Comparative transcriptomics between Synechococcus PCC 7942 and Synechocystis PCC 6803 provide insights into mechanisms of adaptation to stress

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Abstract

Background

Synechococcus sp. PCC 7942 and *Synechocystis* sp. PCC 6803 are model cyanobacteria from which the metabolism and adaptive responses of other cyanobacteria are inferred. Here we report the gene expression response of these two strains to a variety of nutrient and environmental stresses of varying duration, using transcriptomics. Our data comprise both stranded and 5' enriched libraries in order to elucidate many aspects of the transcriptome.

Results

Both organisms were exposed to stress conditions due to nutrient deficiency (inorganic carbon) or change of environmental conditions (salinity, temperature, pH, light) sampled at 1 and 24 hours after the application of stress. The transcriptome profile of each strain revealed similarities and differences in gene expression for photosynthetic and respiratory electron transport chains and carbon fixation. Transcriptome profiles also helped us improve the structural annotation of the genome and identify possible missed genes (including anti-sense) and determine transcriptional units (operons). Finally, we predicted association of proteins of unknown function biochemical pathways by associating them to well-characterized ones based on their transcript levels correlation.

Conclusions

Overall, this study results an informative annotation of those species and the comparative analysis of the response of the two organisms revealed similarities but also significant changes in the way they respond to external stress and the duration of the response.

Introduction

Cyanobacteria are considered to be among the oldest organisms evolutionarily, given that putative microfossils attributed to cyanobacteria are 3.5 billion years old [1]. *Synechocystis* sp. strain 6803 (referred hereafter as *Synechocystis*) and *Synechococcus* sp. PCC 7942 (referred hereafter as *Synechococcus*) are two of the most well-studied cyanobacterial model organisms. Like other cyanobacteria, these organisms are capable of oxygenic photosynthesis. Most recently, they have attracted a great deal of attention because of their potential for photobiological production of biofuels and carbon sequestration [2,3]. Because of their great importance, the complete sequence of their genomes were among the first photosynthetic bacteria to be elucidated [4]. Despite their similarities, both strains exhibit a number of differences in their response to environmental stresses. For example, even though *Synechocystis* and *Synechococcus* are both freshwater unicellular strains, *Synechocystis* can tolerate elevated concentrations of NaCl better than *Synechococcus*. Furthermore, *Synechococcus* is an obligate photoautotroph [5], while *Synechocystis* is a facultative photoautotroph [6].

Data obtained with RNAseq have been shown to have higher dynamic range than microarray chips and are useful for improving genome structural annotations [8,9,10]. In this study we used RNAseq to characterize the transcriptomes of *Synechocystis* sp. PCC 6803 and *Synechococcus* sp. PCC 7942 under various stress conditions in order to compare their responses to environmental stress and to improve their genome annotations. The specific stresses we studied were increased salinity, increased pH, carbon starvation, decreased temperature, and decreased light. Although increased pH is considered a “stress”, prior research has shown a coincidence of high pH with cyanobacterial blooms, as they draw down CO_2 during photosynthesis and shift the aquatic bicarbonate buffering system toward consumption of H^+ [10]. We also had a broader interest in the relative uses of respiration and photosynthesis for energy acquisition across all types of stress, given that cyanobacteria can acquire energy from either source.

Our main goals in this study were to: a) improve the structural annotation of the two genomes by correcting already annotated genes and identifying missed genes (including anti-sense) and transcriptional units (operons); b) improve the functional annotation of genes and pathways using

gene co-expression information; and c) identify alterations in the short and long term expression patterns of genes in energy production pathways under various stress conditions.

The complete sequence and annotation of both strains is available through the Integrated Microbial Genomes (IMG) [11]. The expression data are also made available through IMG, and together with the transcriptome analysis presented in this paper, they serve as a valuable resource for further studies of the transcriptional mechanisms of these organisms.

Material and Methods

Cyanobacterial growth and conditions

Synechococcus and *Synechocystis* were grown and sampled under an initial "reference" condition, then subjected to five stress conditions, which were sampled at 1 hr and 24hr (Table 1). To establish the reference condition, cells were grown in standard BG-11 medium in sterile glass flasks on a table top orbital shaker with cotton caps to allow for proper CO_2 incorporation. Except where noted, all cultures were grown at 30 ^oC, 100 rpm, light 100 µE x m-2 x sec^{-1}, and 3% CO_2. To establish the reference condition a 50 ml BG-11 flask was inoculated from a stock cyanobacterial culture and grown to mid-exponential state (D_{730}~ 8). Cells from this culture were then grown in a new 100ml BG-11 flask containing media adjusted to pH 7.5 using 20 mM HEPES-KOH up to OD_{730}=2.0 (early to mid exponential phase), at which time the reference condition was defined and sampled. The following stresses were then applied as described below.

(i) Increased NaCl concentration. 200 mM for *Synechococcus* and 550 mM for *Synechocystis*.

(ii) Increased pH: to 10.0 from 7.5. Once the reference condition was established, we pelleted the cells, washed them twice with BG-11 + 20 mM Bis-Tris-Propane- MES pH10.0 and resuspended them in 100 ml BG-11 + 20 mM Bis-Tris-Propane- MES pH10.0.

(iii) Reduced light: 20 µE x m-2 x sec^{-1} from 100 µE x m-2 x sec^{-1}.

(iv) Decreased temperature: to 20 ^oC from 30^oC.

(v) Carbon starvation. At OD_{730}=2.0 we closed the CO_2 circulation, left the chamber open for 5 min to allow for removal of residual CO_2, then allowed the culture to continue growth.

25ml samples were collected 1h and 24 h after the application of each stress condition.

RNA isolation - Sequencing

Ribosomal RNA was depleted from total RNA with MicrobExpress (Ambion/Life technologies). After purification and quantification, Terminator 5'-Phosphate Dependent Exonuclease (Epicentre) was added. The reaction was terminated with EDTA and purified with Agencourt RNAClean beads following the instructions of the manufacturer. RppH (RNA 5′ Pyrophosphohydrolase, New England BioLabs) was then used to remove the pyrophosphate group from the triphosphorylated 5' end of the full-length mRNA. Single Strand RNA adapter (5'-

ACACUCUUUCCCUACACGACGCUCUUCCGAUCU-3') was unidirectionally ligated to the 5' end of the mRNA using T4 RNA Ligase I (New England BioLabs). The first strand of cDNA was synthesized using a fusion primer (5'-GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTNN–NNN*N-3') and SuperScript III reverse transcriptase (Life technologies). After cleanup with Agencourt AMpure SPRI beads, 18 cycles of PCR reaction was carried out with KAPA HiFi DNA Polymerase and the Illumina TruSeq PCR primers. A gel size selection procedure was used to collect a library of products ranging from 300 to 700 bp in size. Sequencing data was generated from an Illumina GAII Sequencer. 5' enriched libraries were constructed according to [12] and sequence data was generated from an Illumina MiSeq benchtop sequencer.

Data quality and mapping

The quality of the sequenced reads was first assessed using the Bioconductor shortRead package [13]. The majority of the reads were of high quality with the median of the bases scoring close to the maximum 40. Quality reads were mapped to the reference genome sequence from IMG [11] The Burrows-Wheeler Alignment tool (BWA) [14] was used for the mapping, allowing default parameters and mapping to multiple locations. Artemis [15] and Gbrowse [16] were used to visualize the mapping results.

Despite the rRNA depletion step applied in the preparation of the samples, 66% of *Synechocystis* and 71% of *Synechococcus* reads mapped to ribosomal RNA genes and were not considered in downstream analysis (Supp. Table S1).

Gene expression analysis

Transcript abundance was normalized using RPKM (Read Per Kilobase of transcript per million Mapped reads) [17]. Spearman correlation was used in order to determine whether biases in the expression profile of each gene along its length were consistent across all conditions and therefore due to the nature of sequencing technology. For the majority (>90%) of the genes the correlation was consistently above 0.5, indicating consistent bias across all conditions. The remaining 10% of the genes were poorly expressed (RPKM ~$2.5*10^{-9}$). Gene set enrichment analysis was performed using the COG annotation provided by IMG. Statistical evaluation was performed using the Fisher's exact test with adjustment of the pvalues for multiple comparisons using the Benjamini & Hochberg correction with FDR=0.05

Annotation Improvement Techniques

Transcripts that mapped to intergenic regions were considered to confirm an unannotated gene if their coverage was consistently over 5, in at least 3 conditions, and the overall size of the transcript was greater than 200 bp. Five prime enriched libraries were used to identify putative starts of the transcripts on *Synechococcus*. In order to identify the accuracy of the 5' signals we

first analyzed their intensity on a set of high quality predicted CDSs. This set was comprised of genes that had been assigned to COGs and that had at least 150bp downstream of their 3' end in order to avoid interference from trailing coverage of transcripts or operon structures. This allowed us to correlate the intensity of the 5' peak to the coverage of the CDS. In order to avoid 5' RNAseq bias we also excluded the first 160 bps immediately after the 5' peak in the computation of the correlation. A threshold correlation of 0.6 or better using the Passing & Bablok regression was used to find all 5' peaks with similar correlation to their downstream transcript coverage. All the 5' signals that passed the previous filter were assigned to a CDS at most 200 bps downstream of the signal.

Transcriptional Units (TU) or operons were defined as collections of tandem CDSs with intergenic distance less than 150bps, common expression profiles under different conditions (i.e. Pearson correlation between all conditions >0.6) and, in the case of *Synechococcus*, absence of 5' peaks assigned to genes inside the TU.

Results and discussion

Whole genome expression

The total percentage of the two genomes covered by more than two RNA-Seq reads, including intergenic and gene coding regions, was 98.6 % for *Synechococcus* and 98.7 % for *Synechocystis*, when the RNAseq data from all conditions were considered simultaneously. Although caution should be taken in interpreting these results, since they may be indicative of potential sequencing artifacts [18]. Biologically meaningful reasons for this observation include (a) the high gene density (coding sequences cover 89.2% and 86.7% of the entire genome of *Synechococcus* and *Synechocystis* respectively), 99% of these coding bases were found to be covered by at least two reads. (b) Expression of intergenic regions corresponding to 5′ or 3′ UTRs or intergenic regions between genes belonging to operons. (c) The presence of unannotated transcripts in intergenic regions.

Structural annotation of existing genes

The 5' enriched libraries of *Synechococcus* revealed that 792 of 2612 CDSs did not have a reliable 5' signal. Of these 792, 522 were part of a predicted transcriptional unit (TU) and 270 were not. Those 270 CDSs (Figure 1c), were poorly expressed under all experimental conditions (Supp. Table S3). Interestingly, almost all of these genes are well conserved across other organisms. The 5' enriched libraries also revealed 171 CDSs whose 5' peak was downstream of the annotated start codon (Figure 1d).

Overall, a total of 375 TUs were identified in *Synechococcus* with two or more predicted CDSs encompassing a total of 897 CDS (Figure 1e). Similarly, *Synechocystis* is predicted to contain 311 TUs comprised of 754 genes.

Novel transcripts

Using the coverage profiles, we looked for novel transcripts according to the method described in the materials and methods section. Due to size limitations imposed by the library preparation method, we restricted our prediction to transcripts of 200 bp or longer. We were able to predict 256 new transcripts in the *Synechocystis* and 127 in *Synechococcus* located in the intergenic regions of the current annotation. Additional novel transcripts were detected on the antisense strands, 930 in *Synechocystis* and 573 in *Synechococcus*.

In the case of *Synechococcus* we were also able to further support the detection of antisense transcripts by identifying 5' peaks supported by at least 5 reads, located in the antisense strand. Previous studies have detected expressed transcripts in the opposite (antisense) strand of protein coding genes in Bacteria and describe their role as a posttranscriptional mechanism to adjust mRNA levels [19,20,21]. However since our study was not designed to detect such transcripts, primarily due to restrictions imposed by the size selection at the library preparation, we refrained from further exploring this prediction.

Novel transcripts of intergenic regions were retrieved and subjected to similarity searches against the nr protein database (Supp. File S6). Approximately half of the searches resulted in significant hits (blast evalue < 10^{-5}), suggesting that these correspond to genes that have been previously reported in other genomes and have been missed in the current annotation of these organisms. The remaining transcripts we presume are novel transcripts of unknown product.

Gene expression and stress condition clustering

Unsupervised hierarchical clustering reveals the similarities and differences in stress response for the two study organisms (Figure 2). The strongest similarities with respect to time were carbon depletion at 1h and 24h in *Synechococcus* (Figure 2A) and reduced light at 1h and 24h in *Synechocystis* (Figure 2B). These time similarities indicate that the respective responses for the two organisms manifest themselves within 1h and do not change significantly for the next 24h. In addition, the greater distance between the reference condition and carbon stress cluster in *Synechococcus* and the distance between the reference condition and reduced light cluster in *Synechocystis* suggests that the immediate carbon stress response in *Synechococcus* is stronger than the immediate reduced light response in *Synechocystis.* The same kind of analysis leads to the conclusion that the pH response does in *Synechocystis* occurs largely within an hour. Clearly, different stresses elicit similar time responses in the gene expression patterns of the two organisms.

Unsupervised clustering can be used to reveal gene relationships based on the assumption that genes with similar expression profiles are functionally linked [22]. Based on this approach we were able to identify 6 proteins of unknown function (annotated as hypothetical proteins) in the

current annotation, in *Synechocystis* and 1 in *Synechococcus*, which exhibited high correlation (Pearson correlation >0.9) to proteins of known function (Supp. Table S4). The six proteins in *Synechocystis* are smaller proteins (<145 amino acids) related to energy and nitrate metabolism. In one case (ssl5045), transcriptomics confirmed the existence of the small gene corresponding to a protein of 60 amino acids, which is located in the intergenic space in the July 2012 draft update of the genome. The *Synechococcus* protein was co-regulated with annotated twitching motility proteins. It needs to be noted that these associations do not reveal the exact function of these proteins, but rather indicate a common regulation and/or a functional correlation among them, and require additional experiments to verify or reject these hypotheses.

Differential gene expression

Pairwise comparisons between the reference and other conditions, as well as between the 1h and 24h conditions revealed a relatively small number of genes that exhibit either increased or decreased transcription levels ($\log R_2$ threshold set to 2). The genes and their classification to COG functional groups are shown in detail in Supp. Table 2.

In order to further associate the number of up/down-regulated genes to known pathways we performed gene set enrichment analysis using the COG functional classification. This analysis also revealed a different pattern of response between the two organisms.

Some responses to alkaline pH stress that we observed in both *Synechococcus* and *Synechocystis* are consistent with previous studies [10]. Alkaline pH in freshwater systems is thought to be caused by high levels of photosynthesis, which drive down dissolved CO_2 levels. Lowered CO_2 shifts the bicarbonate buffering system in the direction of consuming hydrogen, resulting in raised pH, as the hydrogen combines with bicarbonate to form CO_2 and water, thus maintaining equilibrium. Cyanobacteria, specifically *Synechocystis,* have been shown to adapt to alkaline pH by spending energy to acquire and concentrate scarce CO_2 and bicarbonate, allowing them to grow and outcompete other photosynthesizers at high pH. Consistent with these studies, we found that *Synechococcus* gene sets related to cell wall biosynthesis and cell motility/signal transduction were enriched with upregulated genes under alkaline pH stress at 1h and that gene sets for energy production and translation were upregulated at 24h. We also found upregulation of ribosomal genes and translation in *Synechocystis* after 1 hr. Certainly energy production, motility and translation are indicators of high metabolic activity, such as occurs in blooms. We speculate that cell wall biosynthesis reflects either increased growth or physical restructuring of cell walls to tolerate alkaline conditions [10].

Other results of gene set enrichment analysis are itemized below.

- In *Synechococcus* elevated NaCl after 1h causes upregulation of genes related to signal transduction and downregulation of ion transport (particularly nitrate and phosphate). After 24h translation is upregulated, particularly the operon Synpcc7942_2203 -

Synpcc7942_2235, and genes related to transcription, replication and signal transduction are downregulated. In *Synechocystis,* elevated NaCl after 1h causes upregulation of translation and replication and downregulation of genes classified in cell wall biogenesis, and downregulation of translation after 24h.

- In *Synechococcus* CO_2 depletion after 1h results in higher expression of energy production genes and intracellular trafficking genes, and lower expression of genes related to signal transduction. After 24h energy conversion related genes remain enriched. In *Synechocystis* CO_2 depletion after 24h results in lower expression of genes involved in energy production, basic metabolism and inorganic transport.
- In *Synechococcus* lower temperature after 1h increases expression levels of genes related to chaperones and heat shock proteins, and decreases expression of signal transduction related genes. After 24h the transcription levels of energy production and translation related genes are elevated while transcription and signal transduction are lowered. In *Synechocystis* lower temperature after 1h upregulates genes related to replication, which remain elevated after 24h. Translation appears to be elevated after 24h as well. Interestingly transposases are also elevated both after 1h and 24h.
- In *Synechococcus* lowered light after 1h increases energy production, and decreases the expression levels of genes related to ion transport (phosphate, nitrate, sulphate) After 24h, it increases levels of genes associated with post-translational modifications, and decreases signal transduction mechanisms. In *Synechocystis* lowered light after 1h and 24 h decreases expression of metabolic pathways and translation.

Overall, many stress conditions affected translation. Translation has been shown to vary under stress conditions [23] although not to the degree reported here. Increased expression of ribosomal proteins and ATP synthase, has been associated with favorable growth conditions, including light-versus-dark transition and log-phase growth versus stationary-phase growth [10]. This could be a reason for their increased expression in several of the 24h conditions, particularly in the case of *Synechococcus*. In the case of salt stress it has been suggested that high ionic strength might destabilize ribosomes, requiring replacement of ribosomal proteins to maintain ribosomal activity[24].

Photosynthetic and respiratory energy generation

Photosynthetic electron transport and respiratory electron transport are alternative biochemical pathways that ultimately create a proton gradient that energizes F_0F_1 ATPase synthase. The thylakoid membranes of cyanobacteria are pinpointed by the simultaneous presence and intersection of the photosynthetic and respiratory electron transport chains, where several components are partially utilized in both processes [25–27]. Despite the spatial overlap of

photosynthesis and respiration, the two electron chains offer alternative ways to adjust to environmental stresses. Our transcriptomic data (Supp. Table S5) revealed that under certain conditions, photosynthetic and respiratory chain components were highly regulated, as reflected by RPKM values. The pairwise $\log_2$ ratios of the corresponding RPKM values relative to the reference conditions (Figure 3A) were used to quantify those changes and absolute $\log R_2$ values higher than 1 (two-fold increase) were considered as significant.

Transcriptional responses for the two electron transport chains under all stress conditions could be grouped into three major categories: 1) downregulation of photosynthetic electron transport chain and upregulation of the respiratory chain, 2) upregulation of the respiratory transport chain solely, 3) concurrent downregulation of both electron transport chains, and 4) downregulation of the photosynthetic electron transport chain solely (Figure 3).

Respiration over photosynthetic energy generation

Relative to reference conditions, stress conditions of low temperature, alkaline pH, and low light favored respiration in *Synechococcus* (Figure 3B, Supp. Table S5). For the last two conditions, this is summarized in the upregulation of certain gene components of the NDH-2 complex, NDH-1 dehydrogenase complex, and the two available terminal oxidases, the $\alpha\alpha_3$-type cytochrome *c* oxidase (CoxBAC) and the cytochrome *bd* quinol oxidase (CydAB). In contrast, the transcript levels of the photosynthetic antenna and the photosystem I (PSI) related genes were reduced. In both stress conditions these alterations were evident both after 1h and 24h of exposure. Despite the fact that we found a similar pattern for low temperature in *Synechococcus* cells, this applies only for the first hour of exposure in the corresponding stress conditions, while after 24h only respiration remained enhanced (see *Respiratory energy upregulation*).

The only example in *Synechocystis* where upregulation of respiration prevailed over photosynthesis is low temperature (24h). More precisely, certain components of the NDH-1 dehydrogenase complex and the NDH-2 complex were induced, while the PSI and the antenna reduced.

Respiratory energy upregulation

Synechococcus cells after 24h in low temperature exhibit an upregulation of certain components of the NDH-1 dehydrogenase complex and the NDH-2 dehydrogenase (see Supp. Table S5). This follows an enhanced respiration and reduced photosynthesis profile in the first hour of exposure. However, in carbon depletion we monitored enhanced respiratory components only in the first hour of exposure, which is supported by an induction of the NDH-1 complex (but not the Nhd3 and nhF3 components), terminal oxidases, the cytochrome *b6f* complex and the F_0F_1-ATP synthase (Figure 3C).

Simultaneous downregulation of photosynthetic and respiratory energy generation

Synechocystis cells 1h after addition of 550 mM of NaCl exhibited a broad modification of expression levels for the majority of the genes that participate in the two electron transport chains. More precisely, 16 of the 32 components of the NDH-1 complex and all the three terminal oxidases (CydAB, CoxBAC and the quinol oxidase or QOX) were downregulated by 2- to 8-fold, while only 6 components were similarly upregulated. Interestingly, similar downregulation was also measured for almost all the components of the photosynthetic apparatus and certain components of the *b6f* cytochrome. Since both electron transport chains were downregulated, it is not surprising that the components of the F_0F_1 ATP synthase were also downregulated. However, transcript levels returned to normal 24h after exposure to elevated NaCl levels, evidently showing an adaptation of *Synechocystis* cells to rapidly respond to elevated salinity. Our data are in agreement with previous microarray and proteomic data that subjected *Synechocystis* cells to salt stress for short and long periods [24,28,29,30].

A similar, but less intense response was seen in *Synechocystis* for low light conditions. A 2- to 4.6-fold downregulation was seen for 43 to 47 components of the photosynthetic and respiratory electron transport chains for both time points, with only 2 genes upregulated (one of which degrades antenna protein). *Synechocystis* sp. PCC 6803 cells in low light seemed to be overall less affected compared to *Synechococcus* sp. PCC 7942, something that coincides with the photo-dependence differences these two strains exhibit, reported elsewhere [6,7]. The fact that simultaneous downregulation of photosynthetic and respiratory electron transport chains was exclusively seen in *Synechocystis* sp. PCC 6803 cells may imply that this strain is either more adapted to survive with an impaired energy production and/or that employs other catabolic pathways to compensate for the energy loss (Figure 3D).

Photosynthetic energy downregulation

Ignoring upregulation of “respiratory” genes *ndhD3* and *ndhF3* (which actually participate in inorganic carbon transport) and the petA and petC1 genes (which are part of the shared cytochrome *b6f* complex) there was a general downregulation of photosynthesis in *Synechocystis* after 24 hours of exposure to low C and 1h to low temperature (Figure 3E), but never in *Synechococcus*. Photosynthesis provides the force for the essential carbon fixation pathway in photosynthetic organisms. The loss of the photosynthetic capacity as a result of the absence of inorganic carbon has been documented before in *Synechocystis* [31,32]. Apparently, *Synechococcus* presents a different response to carbon depletion from *Synechocystis*.

Overall, it is worth mentioning that *Synechocystis* cells often responded to stress with strong downregulation (up to 20-fold decrease) of F_0F_1-ATP synthase. This argues either for a lower energy requirement of the corresponding strain under stress conditions, or alternative pathways of energy acquisition.

Carbon fixation

Cyanobacteria acquire inorganic carbon in order to perform the photosynthetic reaction. For that reason they have developed an effective CO_2 concentrating mechanism (CCM) inside of organelles called carboxysomes. Carboxysomes efficiently take up inorganic carbon in the form of either bicarbonate or carbon dioxide and concentrate it for use by relatively inefficient RuBisCos [33,34]. Inorganic carbon enters the cell via five different transport systems identified both in *Synechococcus* and *Synechocystis* [33,35,36]. Bicarbonate enters the carboxysomes and is turned to CO_2 by carbonic anhydrase. Subsequently, RuBisCo catalyzes fixation of CO_2 onto ribulose bisphosphate, forming two 3-PGA molecules, which escape into the cytoplasm [37]. The carboxysome membrane forms a selective barrier preventing CO_2 escape, but is selectively permeable to bicarbonate, 1,5P-ribulose, and 3-PGA.

Carboxysome Operons

In *Synechocystis*, genes encoding CcmK1, CcmK2 and CcmL, which belong to the structural components that comprise the exterior of the capsule, are in the same positional cluster with the *ccmM* and *ccmN* genes that comprise the carboxysomal interior. Our data indicate that this cluster behaves as an operon since all components responded similarly to all tested conditions (Table S5). It is worth mentioning that the separate *ccmK3*/*ccmK4* cluster and the *ccmP* gene, encoding an outer shell facet protein, followed the trend of the CcmK1/K2/L/ M/N cluster with the exception of 24h in alkaline pH and 1h of elevated salinity. Under these conditions, *ccmP* expression was unchanged while the other genes were all downregulated. The expression of the second outer shell facet CcmO component was mainly unaffected except for an upshift observed after 1h in elevated salinity.

In *Synechococcus* the CcmK2/L/M/N cluster is adjacent to *ccmO* and two *rbcL,S* (RuBisCo) genes. However, the *ccmO* and the *rbc* genes seem to be transcripted independently from the CcmK2/L/M/N cluster. More precisely, the *rbc* genes exhibit a common pattern between them, placing them in their own operon, while *ccmO* is not coordinately regulated with either the CcmK2/L/M/N cluster or the rbc operon. Therefore, *ccmO* must form its own operon (Supp. Table S5). These observations are also seen in our 5' data for *Synechococcus*.

Unlike in *Synechocystis,* we saw evidence in *Synechococcus* that it may alter carboxysome composition in response to different environmental conditions. After 1h in low light, *ccmK3* and *ccmK4* in *Synechococcus* were downregulated while the CcmK2/L/M/N cluster was upregulated. Also, in most tested conditions *ccmK3* and *ccmK4* transcript levels in *Synechococcus* remained stable and did not follow the observed changes of the CcmK2/L/M/N cluster. Both of these *Synechococcus* responses in carboxysome structural protein gene expression were not seen in *Synechocystis.*

Carboxysome gene expression

Overall, in *Synechocystis* the majority of the carboxysomal components were significantly repressed under several conditions, namely low light (1h and 24h), salinity stress (1h), pH (24h) and carbon depletion (24h). The RuBisCo genes (slr0009 and slr0012) were an exception, but only under the last two conditions. On the other hand, in *Synechococcus* the *ccmK2/L/M/N* carboxysomal component was upregulated under several conditions, namely alkaline pH (24h), low light (1h), elevated salinity (24h) and carbon depletion (1h and 24h). Also, in *Synechococcus* the RuBisCo components were downregulated, under low temperature (1h), alkaline pH (1h) and low light (24h) conditions, and were unchanged under all other conditions. These data indicate significant differences between the two species in terms of protein and/or organelle stability under the environmental stress conditions studied.

The NdhD3/F3 complex and the SbtA transporter were the most upregulated inorganic carbon transport systems for both strains, although the specific conditions causing upregulation varied. In *Synechocystis* upregulation occurred under low temperature (1h), alkaline pH (1h), elevated salinity (1h), and 24h after carbon depletion. In *Synechococcus* upregulation occurred under low light (1h), low temperature (24h), alkaline pH (1h and 24h), and elevated salinity (24h) conditions. However, the most interesting observation was that none of the inorganic carbon transport systems were upregulated under carbon depletion conditions in this strain.

Focusing on carbon depletion, in *Synechococcus* we observed upregulation of certain carboxysomal components in both time points, but not in the Ci transport systems. For *Synechocystis* we saw downregulation of the carboxysomal components and upregulation of the Ci transport systems. A more holistic overview of those two divergent behaviors suggests that *Synechococcus* may overcome limited carbon availability by enhancing selected components of the carboxysomal capsule, perhaps in an attempt to more efficiently trap the already limited levels of CO_2 around the RuBisCo. On the other hand *Synechocystis* may save energy by decreasing the accumulation of carboxysomal components (since inorganic carbon levels are lower) and use the energy saved to increase the uptake of inorganic carbon.

Conclusions

In this report we have employed an Illumina RNAseq study for an in depth analysis of the transcriptome of the two cyanobacteria *Synechococcus* and *Synechocystis*. Using this data we were able to verify and improve the structural annotation of both genomes by detecting new transcripts located in the intergenic regions. Additionally gene annotations in *Synechoccocus* were improved based on 5’ enriched libraries evidence, and transcriptional units (operons) were identified containing two genes on average. The identification of genes with similar expression

profiles under the conditions examined allowed us to link genes with undetermined function to annotated ones and their corresponding pathways.

Overall, comparative analysis of the response of the two organisms revealed similarities but also significant changes in the way they respond to external stress and the duration of the response. In *Synechococcus* the majority of the stress conditions resulted in the upregulation of the respiratory genes and the downregulation of the photosynthetic ones. This indicates that the loss of energy production that results from a sensitive photosynthetic electron transport chain is compensated by the induction of the respiratory one and suggests a more robust interaction between them in this organism. On the other hand, in *Synechocystis* there were cases that genes of both electron transport chains were downregulated. The carboxysome, a crucial organelle for carbon fixation, exhibits significant differences between the two organisms in terms of protein stability under environmental stress conditions. *Synechococcus* cells likely enhance the carboxysomal capsule in order to overcome the limiting carbon availability while *Synechocystis* increases the uptake of inorganic carbon.

We believe that this work will provide a valuable reference for further studies of cyanobacterial transcription and adaptation to environmental stress.

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Authors' Contribution

MB and KM designed the experiment. MB, KB and KM performed the research and analyzed the data. MB, KB, HJT, NCK and KM wrote the article. All authors read approved the final manuscript.

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Table and figures legends

	Synechococcus sp. PCC 7942		*Synechocystis sp. PCC 6803*	
Reference	S7-Ref (*SRR071374*)		S6-Ref (*SRR071349*)	
	1hour post stress	**24hours post stress**	**1hour post stress**	**24hours post stress**
Increased salinity (S)	S7-S 1h (*SRR071375*)	S7-S 24h (*SRR071379*)	S6-S 1h (*SRR071348*)	S6-S 24h (*SRR071356*)
Reduced light (L)	S7-L 1h (*SRR071378*)	S7-L 24h (*SRR071384*)	S6-L 1h (*SRR071360*)	S6-L 24h (*SRR071355*)
Lower temperature (T)	S7-T 1h (*SRR071385*)	S7-T 24h (*SRR071382*)	S6-T 1h (*SRR071358*)	S6-T 24h (*SRR071352*)
Increased pH (P)	S7-P 1h (*SRR071377*)	S7-P 24h (*SRR071383*)	S6-P 1h (*SRR071357*)	S6-P 24h (*SRR071350*)
Carbon Dioxide deficiency (C)	S7-C 1h (*SRR071380*)	S7-C 24h (*SRR071372*)	S6-C 1h (*SRR071353*)	S6-C 24h (*SRR071359*)

Table 1. Growth Conditions applied on the two organisms and their run ids from NCBI SRA.

Synechococcus sp. PCC 7942	Number	Percent
Total Genes	2612	100%
Genes without conflicts	2441	93.45%
Genes with altered Start site	171	6.5%
Novel Genes	256	+9%
Total number of transcriptional units (TUs)	2090	100%
TUs with 5' peaks	1820	87%
TUs without 5' peaks	270	13%

Table 2. Summary of structural annotation for *Synechococcus* sp. PCC7942.

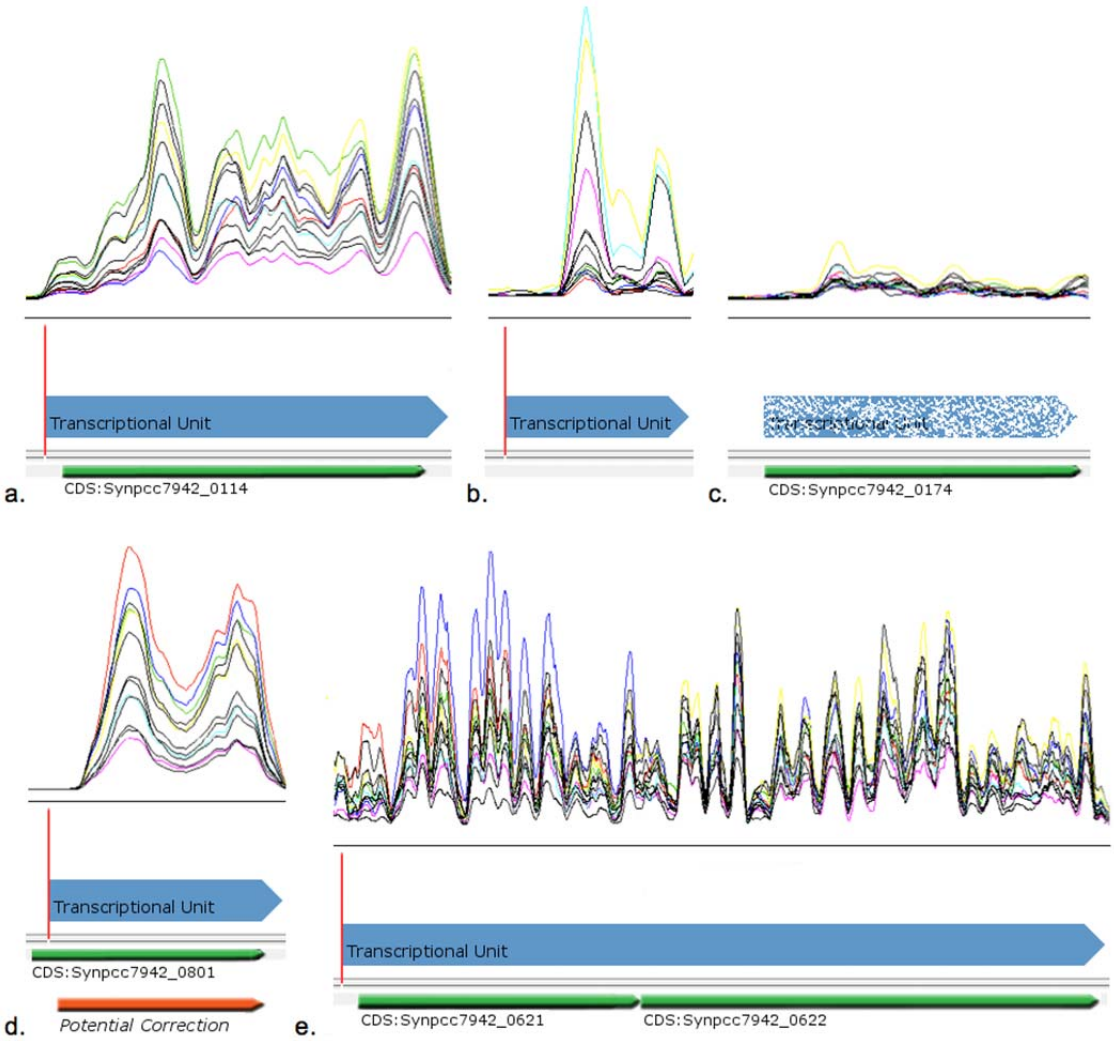

Figure 1. Regions of the genome combined with annotation, RNAseq expression and 5' peaks information. The colored lines represent the expression coverage of this region in each condition. Green arrows represent the existing annotation. 5' peaks are indicated with a vertical red line, blue arrows that follow 5' peaks denote the potential Transcriptional unit and follows the expression of this region. a. Example of a CDS of Synechococcus (Synpcc7942_0114) with one clear 5' enriched indication, RNA-seq coverage and proper annotation. b. Example of a TU inside non-coding region with one clear 5' peak. c. Example of an annotated CDS (Synpcc7942_0174) without 5' peak and ambiguous RNA-seq coverage. d. Example of a CDS (Synpcc7942_0801) with evidence of structural misannotation since the 5' peak is located 60 bps after the annotated start site. e. Two annotated genes with contiguous expression and a peak at the 5' of the first gene suggesting that both CDSs are expressed together as one transcript forming an operon.

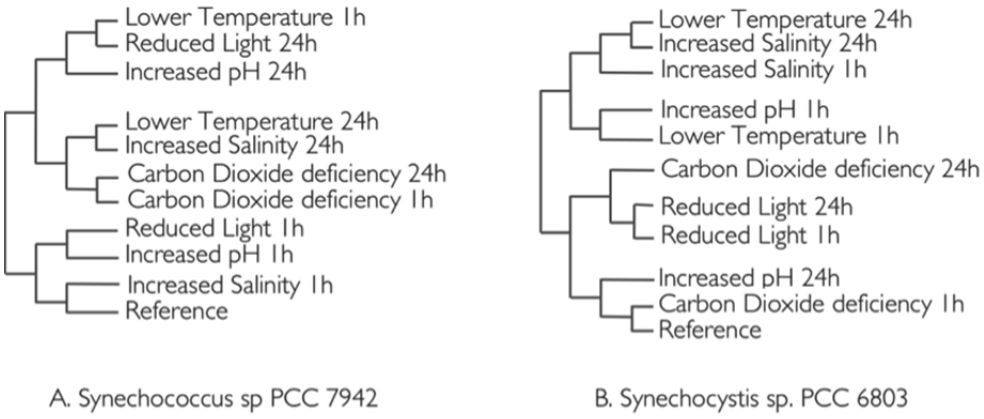

Figure 2. Hierarchical clustering of stress conditions for Synechococcus sp. PCC 7942 and Synechocystis sp. PCC 6803.

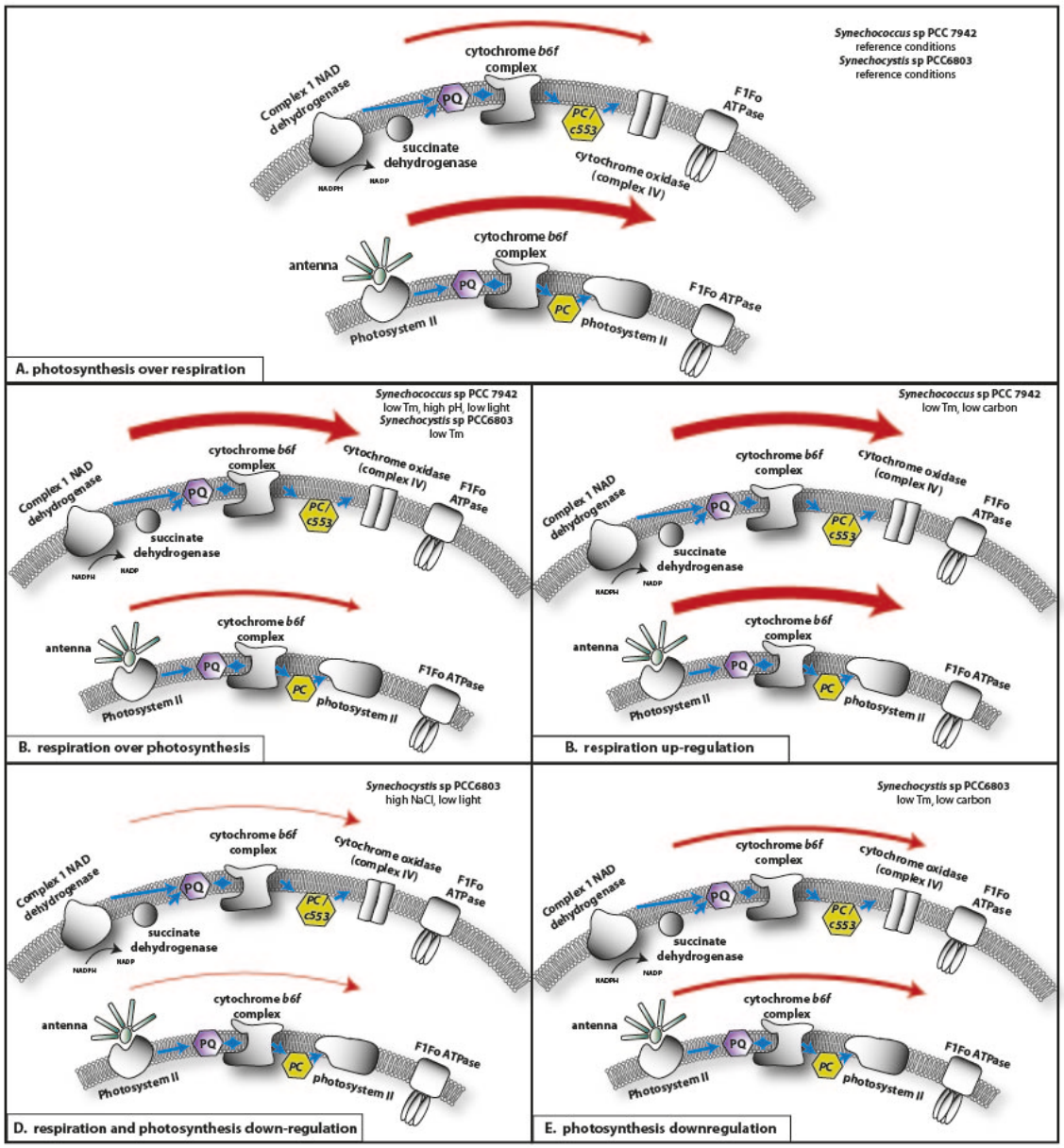

Figure 3. Relative expression of proteins in electron transport chains for photosynthesis and respiration. The thickness of the respective arrows represents the suggested intensity of the energy flow. The conditions that apply to the panel are shown in the upper right of the panel. Panel A. Reference conditions, in the presence of light the photosynthetic electron transport chain has a higher capacity of electron flow than the respiratory chain. Panel B. Conditions where photosynthetic genes are upregulated and respiratory ones are downregulated. Panel C. Conditions where respiratory genes are upregulated. Panel D. Conditions where photosynthetic and respiratory genes are both downregulated. Panel E. Conditions where photosynthetic genes are downregulated. For simplicity, the two electrons transport chains are represented in two

different membrane sections, even though they are intertwined in the thylakoid membrane. Abbreviations: Temperature (Tm).

Supplementary Table S1

Read mapping statistics for the different samples.

Supplementary Table S2

RPKM levels for genes of both organisms for all conditions. Scale: RPKM*10^9

Supplementary Table S3

Results obtained by using 5' enriched data for Synechococcus. Individual worksheets list CDS with 5' peak downstream of their annotated translation initiation sequence, CDSs without any detectable 5' peak and Transcriptional Units with more than one CDS (operons).

Supplementary Table S4

CDS that could be functionally related using unsupervised clustering based on the assumption that genes with similar expression profiles are functionally linked

Supplementary Table S5

Subset of Supplementary Table S2. Gene expression data for genes associated with pathways referenced in the manuscript.

Supplementary File S6

Sequence similarity results based on blast for newly identified transcribed sequences located in intergenic regions.

Supplemental Table 1

Synechocystis sp. PCC 6803

	Condition	# of reads	unmapped	mapped	rRNA	CDS
Reference	S6-Ref	10265277	488375	9776902	6472439	2780336
pH 1h	S6-P 1h	37477182	947707	36529475	23048520	10948848
pH 24h	S6-P 24h	37037702	1139601	35898101	25466319	7896808
NaCl 1h	S6-S 1h	36889727	1000986	35888741	28571762	5694540
NaCl 24h	S6-S 24h	36162978	2207277	33955701	20996381	10157057
C depletion 1	S6-C 1h	37705347	1411647	36293700	23793670	10295210
C depletion 2	S6-C 24h	35221631	1498543	33723088	21930594	8863195
Temperature	S6-T 1h	39684208	1312239	38371969	25119838	11030509
Temperature	S6-T 24h	40925559	1567643	39357916	29897815	7579957
Light 1h	S6-L 1h	39446940	1307312	38139628	23819366	10629252
Light 24h	S6-L 24h	39457595	1391270	38066325	28193803	7198539

Synechococcus elongatus PCC 7942

	Condition	# of reads	unmapped	mapped	rRNA	CDS
Reference	S7-Ref	41204044	741785	40462259	31581538	5277199
pH 1h	S7-P 1h	40726128	402688	40323440	29519816	8426895
pH 24h	S7-P 24h	27225158	1090937	26134221	19934711	4513229
NaCl 1h	S7-S 1h	35899476	463061	35436415	24903154	6350173
NaCl 24h	S7-S 24h	39739524	484321	39255203	28782297	8321100
C depletion 1	S7-C 1h	41307075	278577	41028498	30757858	8080094
C depletion 2	S7-C 24h	40063220	275773	39787447	27630609	9493687
Temperature	S7-T 1h	37885794	756715	37129079	24829008	6727670
Temperature	S7-T 24h	40130086	435089	39694997	24753782	11591859
Light 1h	S7-L 1h	39348609	539007	38809602	30925075	5953501
Light 24h	S7-L 24h	39815445	547840	39267605	30543175	6091077

*without considering secondary read alignments

RPKM of genes

Gene ID	Locus Tag	Product Name	Reference	pH 1 hour	pH 24 hours	NaCl 1hour
637009560	slr0245	acetylpolyamine aminohydolase	39.787	26.191	28.16	21.857
637009504	sll1051	phycocyanin alpha phycocyanobilin lyase; CpcF	54.845	59.003	25.907	66.274
637009513	slr0721	malic enzyme	116.703	64.742	44.688	36.192
637009530	sll0703	hypothetical protein	30.052	22.573	17.968	34.986
637009572	sll0223	NAD(P)H-quinone oxidoreductase subunit 2	930.335	821.31	682.99	285.25
637009585	sll1327	ATP synthase subunit C	662.908	1197.529	636.922	76.414
637009586	sll1326	ATP synthase subunit A	901.777	1924.911	955.44	178.312
637009587	sll1325	ATP synthase subunit D	824.766	1928.568	902.263	145.553
637009588	sll1324	ATP synthase subunit B	1131.468	2192.717	1026.171	92.73
637009589	sll1323	ATP synthase subunit B	2067.045	3511.09	1780.826	184.471
637009590	ssl2615	ATP synthase subunit C	5833.021	7964.279	4902.19	279.888
637009591	sll1322	ATP synthase subunit A	4859.099	6162.726	3690.895	496.027
637009607	slr1096	dihydrolipoamide dehydrogenase	180.208	215.744	106.908	66.612
637009609	slr1098	hypothetical protein	149.325	117.069	82.241	139.994

637009625	sll1031	carbon dioxide concentrating mechanism protein; C	878.254	1050.826	452.438	276.559
637009675	sll1663	hypothetical protein	252.276	167.749	138.54	81.053
637009689	slr1289	isocitrate dehydrogenase	117.85	187.972	97.087	41.588
637009692	slr1291	NAD(P)H-quinone oxidoreductase subunit 4	57.65	97.292	31.38	483.442
637009711	sll1189	glycolate oxidase subunit; GlcE	59.741	54.057	33.458	175.829
637009800	sll1023	succinate--CoA ligase	85.435	64.722	37.903	80.764
637009844	slr1591	hypothetical protein	9.864	11.457	8.257	25.112
637009910	slr1755	NAD+ dependent glycerol-3-phosphate dehydrogena	96.151	71.637	55.695	65.187
637009938	slr1849	mercuric reductase	9.926	10.785	6.301	14.708
637009948	slr2033	rubredoxin	436.218	347.475	206.942	125.467
637010003	sll1831	glycolate oxidase subunit (Fe-S) protein	47.929	49.178	29.076	9.935
637010023	sll0990	formaldehyde dehydrogenase (glutathione)	87.564	55.191	56.818	81.835
637010045	slr1379	cytochrome oxidase d subunit I	90.356	97.285	112.04	24.288
637010046	slr1380	cytochrome oxidase d subunit II	78.133	74.785	92.346	28.087
637010048	sll1299	acetate/propionate kinase	56.965	54.489	38.54	22.371
637010057	ssl2559	ferredoxin	12.72	8.239	12.705	1.028
637010081	sll1584	hypothetical protein	32.225	36.045	22.36	7.162
637010137	sll1913	hypothetical protein	12.021	14.439	10.242	8.821
637010142	slr2030	hypothetical protein	32.42	27.817	31.166	126.321
637010148	slr1136	cytochrome c oxidase subunit II	280.877	211.592	169.32	80.688
637010149	slr1137	cytochrome c oxidase subunit I	268.992	192.461	176.946	62.412
637010150	slr1138	cytochrome c oxidase subunit III	164.385	143.283	116.254	38.275
637010215	sll1796	cytochrome c553	85.152	1401.507	53.755	57.197
637010290	slr1828	ferredoxin	454.72	364.873	181.023	62.779
637010296	sll1733	NADH dehydrogenase subunit M	33.912	99.65	27.863	132.432
637010307	sll1721	pyruvate dehydrogenase E1 beta subunit	241.998	226.061	134.345	76.255
637010351	sll1454	nitrate reductase	41.15	63.455	33.272	82.134
637010382	slr1233	succinate dehydrogenase	89.638	59.967	41.364	48.15
637010399	slr1239	NAD(P) transhydrogenase subunit alpha	281.355	104.512	112.816	147.299

637010403	slr1434	pyridine nucleotide transhydrogenase beta subunit	190.645	117.833	141.876	77.655
637010412	sll1359	hypothetical protein	49.233	22.37	27.521	3.298
637010417	slr1442	hypothetical protein	157.714	103.266	134.571	176.687
637010426	slr1449	hypothetical protein	63.538	65.116	76.903	21.882
637010430	sll1348	hypothetical protein	32.371	35.111	18.588	69.314
637010493	sll1316	plastoquinol--plastocyanin reductase	1192.279	736.569	575.906	917.315
637010545	slr1876	hypothetical protein	49.271	74.058	28.885	97.59
637010548	slr1878	phycocyanin alpha phycocyanobilin lyase; CpcE	63.322	42.14	31.066	57.413
637010559	ssr3184	ferredoxin	174.736	150.262	113.009	506.208
637010571	slr1888	hypothetical protein	17.054	18.9	7.119	8.871
637010636	sll1625	succinate dehydrogenase	110.689	64.474	54.553	42.458
637010649	slr1743	NADH dehydrogenase	64.732	46.741	32.653	56.669
637010653	slr0851	NADH dehydrogenase	18.481	15.514	16.921	63.896
637010732	slr2059	ferredoxin	50.881	52.297	33.806	88.584
637010753	slr1998	hypothetical protein	25.799	37.636	12.485	7.048
637010776	slr1719	DrgA gene product	330.979	393.928	182.17	78.096
637010806	slr0261	NADH dehydrogenase delta subunit	513.287	518.406	334.978	280.725
637010814	sll0248	flavodoxin	5.356	21.384	5.674	184.806
637010838	slr2082	cytochrome c oxidase subunit I	144.311	110.911	87.499	19.702
637010839	slr2083	cytochrome c oxidase subunit III	109.305	82.97	59.051	13.298
637010873	slr1503	hypothetical protein	70.211	63.054	32.57	43.202
637010957	slr1329	ATP synthase subunit B	1656.684	2698.059	1414.421	370.415
637010958	slr1330	ATP synthase subunit epsilon	987.584	1704.103	892.554	244.94
637010961	sll1226	hydrogenase large subunit	46.757	38.135	32.002	8.678
637010964	sll1224	hydrogenase small subunit	50.673	38.119	36.329	9.455
637010965	sll1223	NAD-reducing hydrogenase subunit U	58.918	47.193	43.454	23.634
637010967	sll1221	hydrogenase subunit	46.308	28.76	26.851	25.349
637010968	sll1220	ATP synthase subunit E	86.191	40.252	42.751	50.011
637010976	slr0806	hypothetical protein	124.37	117.433	63.215	45.337

637010989	sll0813	cytochrome c oxidase subunit II	191.692	146.9	131.208	95.86
637011044	sll1245	cytochrome; CytM	121.582	208.451	79.672	242.609
637011047	sll1242	hypothetical protein	241.117	308.515	128.486	44.824
637011121	sll1382	ferredoxin	446.761	405.909	542.253	2159.666
637011138	sll1182	cytochrome b6/f complex iron-sulfur subunit	188.811	157.851	125.239	279.508
637011158	slr1279	NADH dehydrogenase alpha subunit	248.834	236.18	161.266	119.021
637011159	slr1280	NADH dehydrogenase beta subunit	296.551	288.507	188.339	79.092
637011160	slr1281	NADH dehydrogenase subunit J	431.853	369.099	262.532	130.332
637011214	sll1091	43 kD bacteriochlorophyll synthase subunit	2174.531	2352.498	1509.809	64.883
637011215	slr1167	glycerol dehydrogenase	264.852	161.771	156.033	173.364
637011226	sll1085	glycerol-3-phosphate dehydrogenase	15.292	19.293	24.649	2907.452
637011229	slr1672	glycerol kinase	47.316	50.982	61.294	690.588
637011252	ssl3044	hydrogenase component	75.558	173.548	24.436	837.119
637011253	slr1687	hypothetical protein	110.079	64.069	29.793	2179.297
637011255	sll1557	succinyl-CoA synthetase	117.127	44.188	53.014	35.437
637011256	sll1556	isopentenyl pyrophosphate isomerase	51.681	31.825	24.539	41.293
637011268	sll0920	phosphoenolpyruvate carboxylase	139.591	133.41	96.94	66.573
637011306	slr1622	inorganic pyrophosphatase	325.345	474.927	181.369	51.976
637011357	sll0424	hypothetical protein	11.555	9.621	9.471	10.844
637011429	slr0148	ferredoxin	364.262	297.523	370.505	100.961
637011431	slr0150	ferredoxin	411.697	390.543	429.504	111.074
637011436	sll0147	hypothetical protein	43.637	36.705	21.218	23.124
637011455	slr1923	hypothetical protein	53.081	58.652	34.225	87.365
637011473	slr1934	pyruvate dehydrogenase E1 component, alpha subu	380.162	390.345	198.538	123.29
637011496	sll1841	dihydrolipoamide acetyltransferase	370.881	307.915	245.921	657.214
637011510	slr0320	hypothetical protein	40.456	34.842	16.887	266.4
637011527	ssl0563	photosystem I subunit VII	7318.501	3818.518	7366.433	649.762
637011528	slr0331	NAD(P)H-quinone oxidoreductase subunit 4	822.489	578.331	740.24	99.262
637011581	slr0370	succinate-semialdehyde dehydrogenase (NADP+)	192.733	128.275	104.728	184.989

637011605	slr0772	light-independent protochlorophyllide reductase sul	287.443	217.783	294.407	16.696
637011641	slr0342	cytochrome b6	2281.435	2109.71	2213.526	796.647
637011642	slr0343	cytochrome b6-f complex subunit 4	2090.549	1834.071	2094.553	531.961
637011688	slr0012	ribulose bisphosphate carboxylase small subunit	2023.528	3344.492	2040.469	417.376
637011693	ssl0020	ferredoxin	9268.407	12354.985	5523.136	1529.257
637011696	slr0018	fumarase	45.842	46.86	21.392	19.723
637011725	sll0199	plastocyanin precursor	3524.618	519.589	2892.986	5482.755
637011754	sll0404	glycolate oxidase subunit; GlcD	85.92	57.283	41.403	20.232
637011760	sll0401	citrate synthase	179.49	126.08	109.885	104.462
637011921	slr0201	heterodisulfide reductase subunit B	44.352	25.613	36.412	26.287
637011958	slr0905	Mg-protoporphyrin IX monomethyl ester oxidative c	10.074	12.939	7.331	5.801
637011973	sll0891	2-ketoacid dehydrogenase; malate dehydrogenase;	427.988	200.27	204.337	406.796
637011983	sll0554	ferredoxin-thioredoxin reductase, catalytic chain	116.407	121.729	62.208	221.515
637012037	sll0823	succinate dehydrogenase	181.962	285.28	147.542	264.994
637012068	slr0091	aldehyde dehydrogenase	4.76	7.509	4.089	1.782
637012123	ssr1041	NAD-reducing hydrogenase gamma subunit-like prot	51.517	69.265	25.155	13.358
637012181	slr0309	P-methylase	55.309	33.112	47.99	16.856
637012263	sll0662	ferredoxin (bacterial type ferredoxin family)	894.501	642.321	511.685	296.218
637012269	sll0659	hypothetical protein	16.636	31.839	13.536	11.092
637012278	sll0741	pyruvate oxidoreductase	26.522	8.485	13.865	20.44
637012303	sll0031	hypothetical protein	82.104	53.556	56.173	64.51
637012312	sll0027	NADH dehydrogenase subunit M	138.145	158.357	94.226	33.258
637012346	slr0545	auxin-induced protein	15.628	5.447	11.522	7.754
637012388	sll0522	NADH dehydrogenase kappa subunit	296.113	305.89	237.385	36.209
637012389	sll0521	NADH dehydrogenase subunit J	563.783	523.686	422.563	130.93
637012390	sll0520	NADH dehydrogenase subunit I	348.168	364.356	275.632	77.907
637012391	sll0519	NADH dehydrogenase subunit H	581.006	465.504	425.355	141.752
637012430	slr1464	hypothetical protein	13.772	18.082	16.752	10.713
637012460	slr0665	aconitate hydratase	95.512	118.337	104.541	96.8

637012494	sll1484	NADH dehydrogenase	110.993	61.828	48.668	158.773
637012518	slr0750	light-independent protochlorophyllide reductase sul	43.601	37.703	54.669	9.528
637012605	slr1185	cytochrome b6/f-complex iron-sulfur protein	28.141	19.485	10.64	27.008
637471838	sll5036	sulfide-quinone reductase	6.938	5.311	5.026	5273.562
637472071	ndhK2	NADH dehydrogenase beta subunit	21.335	16.11	20.091	4.626
637010896	slr1517	3-isopropylmalate dehydrogenase	148.859	166.984	77.218	137.245
637011244	sll1561	delta-1-pyrroline-5-carboxylate dehydrogenase	96.808	109.417	58.274	73.74
637009502	slr1125	zeaxanthin glucosyl transferase	38.161	53.242	17.369	11.753
637009704	slr1300	2-octaprenyl-6-methoxyphenyl hydroxylase	111.724	86.823	52.562	342.61
637012465	slr1556	D-lactate dehydrogenase	23.993	25.601	26.253	22.702
637011176	slr1529	nitrogen assimilation regulatory protein	24.239	28.969	18.097	18.505
637010854	sll1980	thiol:disulfide interchange protein; TrxA	223.905	223.468	216.807	281.434
637011836	sll0685	hypothetical protein	145.386	90.423	108.249	34.342
637010112	slr2007	NADH dehydrogenase subunit N	21.583	81.444	15.096	158.297
637010114	slr2009	NADH dehydrogenase subunit N	61.396	85.177	69.046	120.45
637010297	sll1732	NADH dehydrogenase subunit L	48.135	187.442	43.987	545.153
637012034	slr0844	NADH dehydrogenase subunit L	482.941	621.327	509.426	130.43
637012313	sll0026	NADH dehydrogenase subunit L	242.667	258.776	149.063	85.509
637009626	sll1030	carbon dioxide concentrating mechanism protein; C	1872.525	1993.452	806.246	430.79
637009627	sll1028	carbon dioxide concentrating mechanism protein; C	1653.863	1586.708	619.895	333.957
637009628	sll1029	carbon dioxide concentrating mechanism protein; C	3733.89	3253.357	1605.024	1271.728
637010308	slr1838	carbon dioxide concentrating mechanism protein; C	397.386	276.139	208.359	250.04
637010309	slr1839	carbon dioxide concentrating mechanism protein; C	593.688	583.714	284.944	188.243
637011751	slr0436	carbon dioxide concentrating mechanism protein; C	85.67	67.582	48.357	336.753
637009579	sll0219	potential FMN-protein	11.737	12.386	8.939	13.171
637009581	sll0217	potential FMN-protein	29.263	26.233	29.295	30.234
637010572	slr2132	phosphate acetyltransferase	6.725	4.594	3.655	2.698
637011345	sll1521	hypothetical protein	36.183	22.86	19.41	42.379
637011987	sll0550	flavoprotein	128.643	123.488	109.498	154.351

637010147	sll1084	hypothetical protein	22.738	24.652	13.735	46.07
637009645	sll1681	hypothetical protein	72.791	82.335	53.479	102.078
637009705	sll1192	hypothetical protein	30.041	19.35	27.271	171.073
637009708	slr1301	hypothetical protein	111.065	104.22	78.778	130.545
637009852	slr1597	hypothetical protein	32.162	41.016	22.956	12.254
637010079	sll1283	sporulation protein; SpoIID	210.566	208.303	158.962	31.156
637010232	sll1120	chromosome segregation protein SMC1	38.51	28.784	20.676	21.567
637010359	sll1633	cell division protein FtsZ	851.58	641.065	412.055	1074.094
637010805	sll0252	hypothetical protein	148.374	99.07	87.201	37.247
637010910	ssr3571	hypothetical protein	31.222	30.365	19.601	27.757
637011144	slr1267	rod-shape-determining protein	214.727	169.481	172.93	70.65
637011156	slr1278	hypothetical protein	19.023	20.225	11.4	7.226
637011300	sll0905	Maf-like protein	42.055	33.581	39.786	538.226
637011342	ssr2754	hypothetical protein	40.329	52.42	37.161	32.384
637011351	ssr0761	hypothetical protein	16.871	24.575	18.157	17.141
637011721	sll0202	glucose-inhibited division protein A	63.721	32.948	30.342	62.091
637011797	slr0067	put. ATPase	129.359	102.817	65.375	229.718
637011911	slr0191	amidase enhancer	92.697	83.649	63.29	91.808
637012042	slr0848	hypothetical protein	245.025	236.86	142.839	89.696
637012141	slr0105	hypothetical protein	16.567	32.259	28.562	14.398
637012153	slr0110	hypothetical protein	96.662	90.487	52.887	104.658
637012166	ssl0546	septum site-determining protein; MinE	179.901	152.12	78.472	24.925
637012167	sll0289	septum site-determining protein; MinD	240.542	172.559	112.519	44.027
637012168	sll0288	septum formation inhibitor	98.326	52.173	34.342	39.808
637012358	slr0929	hypothetical protein	101.048	63.718	42.72	206.411
637012385	ssl1004	hypothetical protein	40.623	57.465	56.416	194.8
637012479	slr1567	hypothetical protein	20.774	12.852	9.242	7.241
637012572	sll0446	hypothetical protein	10.989	9.07	7.803	6.355
637471868	sll5066	hypothetical protein	37.975	26.893	13.147	27.306

637471907	slr5105	plasmid partitioning protein	50.44	43.723	22.415	99.258
637471978	sll7044	hypothetical protein	76.125	77.859	52.237	29.641
637472017	slr7083	hypothetical protein	3.937	4.762	4.373	1.346
637472055	slr8015	ParA family plasmid partitioning protein	35.49	25.174	22.46	29.261
637472101	slr6012	hypothetical protein	47.296	55.063	68.775	4.943
637472125	sll6036	ParA family chromosome partitioning protein	61.775	48.597	26.151	122.939
637472160	slr6071	hypothetical protein	47.296	55.063	68.775	4.943
637472182	sll6093	ParA family chromosome partitioning protein	48.324	54.135	28.171	2.557
637012459	slr0664	hypothetical protein	13.246	18.597	12.177	18.084
637009437	slr1312	arginine decarboxylase	68.863	62.094	36.208	44.797
637009486	slr1119	hypothetical protein	107.144	53.13	53.904	68.504
637009494	sll1058	dihydrodipicolinate reductase	73.418	63.084	42.837	63.242
637009505	sll1049	hypothetical protein	107.188	63.225	71.808	367.119
637009514	sll0712	cysteine synthase	85.335	50.216	34.834	58.694
637009528	sll0704	NifS protein	90.243	46.066	35.111	142.8
637009534	slr0734	hypothetical protein	10.128	6.184	5.106	104.915
637009561	sll0228	arginase	132.009	157.772	90.133	229.413
637009641	sll1683	lysine decarboxylase	13.009	13.657	9.429	5.678
637009642	sll1682	alanine dehydrogenase	70.085	55.321	37.728	33.832
637009653	sll1675	hypothetical protein	42.457	17.324	29.748	13.817
637009664	sll1669	shikimate kinase	75.317	68.099	31.775	16.07
637009676	sll1662	prephenate dehydratase	99.116	61.919	86.584	102.631
637009727	slr0966	tryptophan synthase subunit alpha	227.237	228.525	126.522	123.861
637009730	sll0938	aspartate aminotransferase	28.621	21.742	19.526	33.493
637009735	sll0934	3-deoxy-7-phosphoheptulonate synthase	650.143	734.359	559.049	661.553
637009797	sll1025	hypothetical protein	141.865	89.465	60.168	161.471
637009819	slr0682	histidinol dehydrogenase	34.903	27.099	24.103	49.151
637009875	sll1502	glutamate synthase (ferredoxin)	157.81	99.78	95.69	87.21
637009912	slr1756	glutamate--ammonia ligase	547.535	582.435	566.257	180.687

637009921	sll1641	glutamate decarboxylase	119.375	87.929	98.133	68.069
637009937	slr1848	histidinol dehydrogenase	286.338	263.949	182.241	374.12
637009940	sll1750	urease alpha subunit	208.077	125.193	115.121	54.103
637009954	slr2035	gamma-glutamyl kinase	55.719	50.57	39.95	27.474
637009982	sll1931	serine hydroxymethyltransferase	459.535	438.741	335.262	415.67
637010018	slr1022	acetylornithine aminotransferase	190.627	134.49	121.43	68.522
637010098	slr1705	aspartoacylase	153.7	131.782	70.628	324.878
637010144	slr1133	argininosuccinate lyase	168.75	158.417	93.651	25.995
637010158	sll1077	agmatine ureohydrolase	50.946	60.356	42.186	258.999
637010163	slr1145	glutamate permease	30.964	46.345	24.879	9.092
637010217	slr1898	acetylglutamate kinase	91.048	81.174	50.648	24.932
637010242	slr1200	high-affinity branched-chain amino acid transport pr	268.99	259.369	276.494	68.418
637010243	slr1201	hypothetical protein	154.593	172.805	151.875	36.897
637010259	sll1112	3-dehydroquinate dehydratase	348.685	236.053	226.42	388.484
637010267	slr2072	threonine dehydratase	44.983	39.954	25.699	75.783
637010276	sll1747	chorismate synthase	137.505	178.53	87.216	58.879
637010312	slr1842	cysteine synthase	141.034	134.963	88.757	22.225
637010319	sll1713	histidinol-phosphate aminotransferase	372.96	202.95	183.141	33.589
637010356	sll1634	hypothetical protein	18.644	41.951	14.374	100.323
637010465	slr0879	glycine decarboxylase complex H-protein	312.46	255.688	158.605	195.137
637010467	sll0873	carboxynorspermidine decarboxylase	44.554	52.196	21.395	100.072
637010527	slr1867	anthranilate phosphoribosyltransferase	167.295	108.562	92.98	95.799
637010556	sll1760	homoserine kinase	108.143	71.556	61.103	31.163
637010560	slr1881	high-affinity branched-chain amino acid transport A	88.831	68.977	35.936	101.355
637010588	slr2141	hypothetical protein	131.604	80.342	69.132	42.532
637010590	slr2143	isopenicillin N epimerase	73.189	62.203	32.003	25.444
637010605	sll1699	extracellular solute-binding protein	33.511	35.694	28.089	42.434
637010623	sll1688	threonine synthase	598.263	745.062	578.619	961.726
637010634	slr1735	ABC transporter	203.625	99.392	101.274	248.61

637010645	slr1740	extracellular solute-binding protein	60.285	84.769	51.223	90.43
637010716	slr1256	urease gamma subunit	164.356	108.612	104.606	63.989
637010728	sll1958	histidinol phosphate aminotransferase	74.351	62.6	46.092	157.229
637010771	sll1608	hypothetical protein	60.582	54.979	43.207	28.514
637010783	ssl3127	hypothetical protein	39.165	36.64	30.735	12.053
637010829	sll0240	ABC transporter	16.205	7.835	6.728	17.66
637010833	sll0236	hypothetical protein	35.43	28.883	20.314	8.83
637010834	slr2079	glutaminase	84.815	73.407	83.266	32.116
637010837	slr2081	prephenate dehydrogenase	47.837	37.37	27.594	44.346
637010907	sll2001	leucyl aminopeptidase	117.856	103.504	62.976	69.585
637010938	slr2130	3-dehydroquinate synthase	82.225	67.755	43.183	14.901
637010952	sll1233	hypothetical protein	36.091	23.074	21.196	13.283
637011039	slr1348	serine acetyltransferase	62.278	51.53	32.199	89.157
637011064	sll1893	imidazole glycerol phosphate synthase subunit HisF	69.039	57.114	36.896	41.566
637011080	sll1883	bifunctional ornithine acetyltransferase/N-acetylglu	314.009	176	143.402	120.558
637011085	sll1878	ABC transporter	183.668	172.578	89.012	717.544
637011089	slr1980	hypothetical protein	7.299	6.513	4.341	0.342
637011145	slr1269	gamma-glutamyltranspeptidase	134.335	93.705	68.271	54.713
637011157	sll1172	threonine synthase	152.743	114.788	70.84	155.722
637011173	sll1444	isopropylmalate isomerase small subunit	329.208	219.425	160.55	74.181
637011238	sll1564	2-isopropylmalate synthase	52.227	40.036	39.543	100.756
637011250	sll1559	soluble hydrogenase 42 kD subunit	437.412	868.454	356.933	490.778
637011287	slr0949	high-affinity branched-chain amino acid transport pe	132.832	167.199	84.268	18.086
637011312	slr1627	hypothetical protein	40.373	69.3	40.276	35.155
637011356	slr0444	3-phosphoshikimate 1-carboxyvinyltransferase	111.16	97.066	52.781	53.274
637011360	sll0422	asparaginase	79.097	129.899	44.757	15.883
637011363	sll0420	urease beta subunit	238.685	169.563	101.367	69.132
637011367	slr0447	negative aliphatic amidase regulator	717.884	2027.906	911.583	177.712
637011396	slr0293	glycine dehydrogenase	78.067	101.906	43.496	36.305

637011411	slr0401	spermidine/putrescine-binding periplasmic protein	73.447	52.749	41.256	41.768
637011414	ssl0707	nitrogen regulatory protein P-II	3731.33	2535.752	2771.247	449.122
637011417	sll0356	N-(5'-phosphoribosyl)anthranilate isomerase	18.819	15.156	9.681	31.834
637011437	sll0146	high-affinity branched-chain amino acid transport pr	123.383	168.842	97.403	39.019
637011450	sll0136	aminopeptidase P	89.099	104.111	53.172	113.981
637011549	sll0171	aminomethyltransferase	20.564	25.488	12.717	23.057
637011570	slr0186	2-isopropylmalate synthase	270.127	206.428	219.317	120.932
637011592	slr0381	hypothetical protein	83.26	109.528	77.317	37.395
637011600	slr0387	NifS protein	28.99	22.677	19.686	13.807
637011634	slr0782	amine oxidase	50.935	29.2	26.114	6.9
637011666	slr0355	hypothetical protein	120	212.738	140.605	291.69
637011674	sll0023	hypothetical protein	33.731	24.486	36.979	1.477
637011702	sll0006	aspartate aminotransferase	62.023	50.559	34.844	30.92
637011759	sll0402	aspartate aminotransferase	114.189	106.453	76.756	73.854
637011763	slr0049	hypothetical protein	289.506	276.414	218.498	90.681
637011774	sll0065	acetolactate synthase III small subunit	273.789	210.14	150.589	113.624
637011802	slr0467	conserved component of ABC transporter for natura	80.309	94.774	36.74	7.975
637011806	sll0461	gamma-glutamyl phosphate reductase	214.281	102.356	140.415	215.763
637011825	sll0455	homoserine dehydrogenase	94.962	103.632	60.362	93.57
637011865	sll0606	hypothetical protein	25.921	16.806	15.218	19.95
637011899	sll0374	high-affinity branched-chain amino acid transport A	159.818	150.765	118.445	29.923
637011900	sll0373	gamma-glutamyl phosphate reductase	76.234	99.938	49.764	17.236
637011939	slr0212	5-methyltetrahydrofolate--homocysteine methyltra	89.212	78.904	47.023	51.484
637011943	ssr1513	hypothetical protein	0	2.983	0	0.771
637011979	slr0559	periplasmic binding protein of ABC transporter for n	502.968	590.189	375.708	168.436
637012011	slr0825	hypothetical protein	125.069	96.904	63.254	98.507
637012049	slr0077	NifS protein	74.509	136.296	47.203	339.298
637012052	sll0084	imidazoleglycerol-phosphate dehydratase; histidinol	120.843	92.37	51.02	24.188
637012061	sll0080	N-acetyl-gamma-glutamyl-phosphate reductase	420.528	286.472	261.046	62.165

637012062	slr0084	imidazole glycerol phosphate synthase subunit HisH	122.078	78.251	73.064	21.465
637012075	slr0500	imidazoleglycerol-phosphate dehydratase	149.207	77.451	56.884	275.667
637012087	sll0480	aspartate aminotransferase	191.266	238.507	111.984	94.631
637012128	sll0585	hypothetical protein	81.773	68.392	43.06	66.17
637012131	slr0625	hypothetical protein	47.857	50.665	37.335	10.949
637012132	sll0109	chorismate mutase	283.523	242.822	233.303	102.175
637012236	slr0700	hypothetical protein	15.921	19.683	13.01	3.932
637012260	slr0710	glutamate dehydrogenase (NADP+)	95.002	69.106	56.626	31.791
637012300	slr0036	aspartate aminotransferase	14.09	9.953	8.846	13.309
637012335	sll0504	diaminopimelate decarboxylase	108.88	85.221	66.214	76.116
637012341	slr0543	tryptophan synthase subunit beta	286.345	200.027	147.485	220.928
637012353	sll0902	ornithine carbamoyltransferase	178.207	123.435	113.274	149.702
637012361	sll0900	ATP phosphoribosyltransferase	173.08	143.305	78.003	47.512
637012369	slr0546	indole-3-glycerol-phosphate synthase	62.269	41.336	32.051	13.582
637012375	slr0549	aspartate beta-semialdehyde dehydrogenese	318.595	310.006	176.227	653.585
637012397	sll1343	aminopeptidase	49.477	45.91	30.649	11.699
637012434	slr0652	1-(5-phosphoribosyl)-5-[(5- phosphoribosylamino)m	108.246	150.708	71.592	178.803
637012447	slr0657	aspartate kinase	102.291	117.051	60.152	31.498
637012449	slr0659	oligopeptidase A	78.566	76.623	48.368	39.913
637012450	slr0661	pyrroline-5-carboxylate reductase	133.278	87.007	68.117	136.716
637012454	slr0662	arginine decarboxylase	68.591	66.925	53.749	15.72
637012464	sll1499	ferredoxin-dependent glutamate synthase	134.776	171.856	100.099	169.988
637012471	slr1559	shikimate 5-dehydrogenase	47.603	52.196	31.614	23.258
637012472	slr1560	ATP phosphoribosyltransferase regulatory subunit	164.889	130.353	86.979	105.955
637012510	sll1470	isopropylmalate isomerase large subunit	134.743	94.819	70.11	100.584
637012557	slr1665	diaminopimelate epimerase	437.487	260.684	151.059	555.414
637012609	slr1189	hypothetical protein	51.387	37.317	32.465	22.553
637012613	slr0585	argininosuccinate synthase	457.93	420.724	288.384	219.037
637012625	sll0573	carbamate kinase	32.233	20.846	26.632	128.292

637012647	slr0608	bifunctional phosphoribosyl-AMP cyclohydrolase/ph	125.881	79.878	75.45	60.141
637471821	ssr5019	hypothetical protein	6.542	4.018	4.62	1.454
637471824	slr5022	hypothetical protein	7.711	4.445	5.4	27.026
637471895	slr5093	hypothetical protein	7.483	11.827	6.498	6.32
637472077	slr8037	hypothetical protein	40.906	21.855	30.593	37.343
637009766	slr1616	hypothetical protein	64.606	118.844	94.673	22.617
637012108	sll0469	ribose-phosphate pyrophosphokinase	604.289	408.274	295.772	259.167
637012466	sll1498	carbamoyl-phosphate synthase small subunit	280.145	181.474	149.916	156.737
637011904	sll0370	carbamoyl-phosphate synthase large subunit	139.118	97.43	68.623	18.129
637012579	slr0452	dihydroxy-acid dehydratase	237.521	265.712	197.072	73.073
637011418	sll0355	hypothetical protein	40.467	43.594	25.622	98.703
637009539	slr0738	anthranilate synthase component I	168.912	155.836	128	27.094
637009661	slr1791	phosphoadenosine phosphosulfate reductase	40.756	53.668	30.186	43.561
637010480	slr0887	hypothetical protein	78.442	103.864	65.749	53.904
637010745	sll1908	phosphoglycerate dehydrogenase	380.989	426.579	237.631	135.52
637010844	slr2088	acetolactate synthase III large subunit	386.884	319.626	223.704	661.635
637010852	sll1981	hypothetical protein	138.168	78.768	75.394	119.787
637010929	slr2123	D-isomer specific 2-hydroxyacid dehydrogenase fam	74.288	60.047	44.047	25.205
637011088	slr1979	anthranilate synthase component I	19.552	17.826	10.574	7.434
637011778	slr0055	anthranilate synthase component II	76.787	94.674	56.533	24.824
637011852	slr0633	ThiG protein	106.815	56.256	48.79	146.547
637012296	slr0032	branched-chain amino acid aminotransferase	199.783	180.165	117.908	408.44
637012432	sll1363	ketol-acid reductoisomerase	510.505	1555.512	537.575	435.319
637471888	sll5086	GntR family transcriptional regulatory protein	7.2	7.548	5.65	7.788
637012376	slr0550	dihydrodipicolinate synthase	324.493	248.959	148.028	552.53
637010541	sll1768	OppB in a binding protein-dependent transport syst	48.664	39.74	35.716	56.491
637011515	slr0324	OppC in a binding protein-dependent transport syst	45.017	36.328	28.749	27.773
637011668	sll0312	OppB in a binding protein-dependent transport syst	22.693	20.638	18.074	10.69
637012017	sll0833	OppC in a binding protein-dependent transport syst	51.394	51.643	31.492	23.392

637012233	slr0697	hypothetical protein	12.7	9.294	9.722	3.94
637009629	sll1027	NADH-glutamate synthase small subunit	268.051	155.868	136.992	96.431
637011221	sll1087	sodium-coupled permease	185.002	169.425	97.3	336.084
637012067	slr0090	4-hydroxyphenylpyruvic acid dioxgenase	9.428	15.801	10.569	3.891
637012406	sll1336	hypothetical protein	159.562	265.461	124.554	150.071
637009565	sll0224	hypothetical protein	220.541	240.921	105.284	15.658
637010449	sll1270	glutamine-binding periplasmic protein/glutamine tra	185.845	215.17	197.276	84.239
637010553	sll1762	hypothetical protein	435.512	364.56	314.228	35.875
637010718	slr1257	hypothetical protein	19.56	21.979	14.356	13.17
637011192	sll1104	glutamine-binding protein	56.278	75.007	34	19.704
637011546	sll0174	hypothetical protein	33.341	47.176	35.684	41.782
637011639	slr0341	hypothetical protein	38.4	25.923	28.839	12.762
637011780	sll0064	hypothetical protein	187.901	262.73	225.772	35.401
637009493	sll1059	adenylate kinase	64.79	66.456	45.216	17.895
637009496	sll1056	phosphoribosylformylglycinamidine synthase subuni	122.723	97.543	66.237	81.893
637009500	slr1123	guanylate kinase	35.776	33.841	16.658	51.949
637009510	sll1045	mutator MutT protein	39.275	51.739	29.641	30.087
637009620	sll1035	uracil phosphoribosyltransferase	90.214	59.496	53.821	34.238
637009807	sll1018	dihydroorotase	65.53	61.919	39.595	38.109
637009812	sll0654	alkaline phosphatase	716.287	96.472	958.012	464.531
637009931	sll1635	thymidylate synthase	40.811	60.292	32.442	24.502
637010145	slr1134	hypothetical protein	104.494	82.684	51.854	24.249
637010179	sll1823	adenylosuccinate synthetase	236.946	655.864	209.655	394.51
637010191	sll1815	adenylate kinase	92.56	362.519	100.162	334.295
637010374	slr1226	phosphoribosylaminoimidazole-succinocarboxamide	175.828	168.554	112.419	62.987
637010528	sll1776	deoxyribose-phosphate aldolase	53.189	52.646	24.01	25.444
637010669	slr0861	5'-phosphoribosylglycinamide transformylase	115.067	77.638	67.288	101.907
637010679	sll0838	orotidine 5'-phosphate decarboxylase	176.165	110.086	83.179	137.75
637010779	slr1722	inositol-5-monophosphate dehydrogenase	806.688	651.796	440.308	786.02

637010869	sll1430	adenine phosphoribosyltransferase	149.555	119.34	87.243	36.475
637011021	sll1258	deoxycytidine triphosphate deaminase	35.997	113.381	23.525	5.771
637011126	slr1476	aspartate carbamoyltransferase catalytic subunit	51.034	45.411	32.364	18.087
637011174	sll1443	CTP synthetase	113.24	116.58	79.67	52.453
637011201	slr1159	phosphoribosylamine--glycine ligase	61.057	83.781	33.968	39.136
637011209	slr1164	ribonucleotide reductase subunit alpha	150.109	224.473	75.849	24.914
637011260	slr1690	hypothetical protein	16.167	23.726	13.442	4.662
637011310	sll1537	hypothetical protein	53.97	57.461	37.733	3.635
637011334	sll1525	phosphoribulokinase	1690.421	2670.112	1320.997	1709.89
637011361	sll0421	adenylosuccinate lyase	152.113	232.836	94.748	53.834
637011413	slr0402	putative deoxyribonucleotide triphosphate pyropho	32.29	31.013	19.719	14.353
637011420	slr0406	dihydroorotase	34.044	18.615	18.125	10.089
637011439	sll0144	uridylate kinase	413.19	368.894	187.115	108.991
637011451	sll0135	5'-methylthioadenosine phosphorylase	189.404	358.952	150.557	232.034
637011477	sll1852	nucleoside diphosphate kinase	169.434	504.425	126.734	164.879
637011568	slr0185	orotate phosphoribosyltransferase	107.579	140.074	48.577	19.691
637011590	slr0379	hypothetical protein	105.788	79.755	76.724	16.104
637011624	sll0757	amidophosphoribosyltransferase	266.818	268.972	163.233	294.251
637011708	slr0213	bifunctional GMP synthase/glutamine amidotransfe	247.097	236.729	137.258	58.386
637011768	sll0070	formyltetrahydrofolate deformylase	27.717	27.338	21.562	11.071
637011812	slr0477	phosphoribosylglycinamide formyltransferase	52.515	58.32	35.277	31.981
637011874	sll0398	dGTP triphosphohydrolase	14.018	10.588	9.616	10.616
637011906	sll0368	pyrimidine regulatory protein PyrR	94.016	82.655	57.819	23.596
637011971	slr0920	hypothetical protein	30.529	21.94	14.854	51.228
637012025	slr0838	phosphoribosylaminoimidazole synthetase	68.957	71.306	36.251	87.493
637012102	slr0519	hypothetical protein	92.946	73.522	54.082	52.904
637012103	slr0520	phosphoribosyl formylglycinamidine synthase	156.205	166.141	86.087	75.768
637012177	slr0306	hypothetical protein	47.87	29.126	23.107	13.149
637012275	sll0744	dihydroorotate dehydrogenase	15.641	14.636	13.476	6.657

637012329	sll0509	Ap-4-A phosphorylase II	12.846	10.211	8.895	8.397
637012339	slr0541	hypothetical protein	38.161	30.145	22.441	25.337
637012354	sll0901	phosphoribosylaminoimidazole carboxylase catalytic	93.785	66.267	50.554	166.754
637012392	slr1418	dihydroorotate dehydrogenase	54.244	34.018	28.786	41.164
637012616	sll0578	phosphoribosylaminoimidazole carboxylase	49.442	58.642	29.285	219.645
637012624	slr0591	hypothetical protein	115.447	141.429	85.701	17.011
637012633	slr0597	bifunctional phosphoribosylaminoimidazolecarboxa	96.504	86.11	45.601	157.81
637471909	sll5107	cytidine deaminase	30.474	20.438	18.356	30.387
637472123	slr6034	cytidine deaminase	30.474	20.438	18.614	30.021
637010384	slr1234	protein kinase C inhibitor	265.798	213.282	160.618	92.042
637011037	sll1249	pantothenate synthetase/cytidylate kinase	59.914	79.896	32.161	24.157
637012197	slr0787	nicotinamide-nucleotide adenylyltransferase	10.101	6.866	7.081	147.877
637010629	sll1631	hypothetical protein	18.04	26.594	15.246	14.187
637011205	slr1161	hypothetical protein	96.738	134.873	117.511	113.482
637011800	sll0051	hypothetical protein	674.731	339.819	594.066	40.711
637012553	sll1546	exopolyphosphatase	86.973	56.412	41.848	69.702
637010390	slr1237	cytosine deaminase	92.398	67.981	35.856	74.02
637009475	sll1393	glycogen synthase	149.153	162.135	124.388	157.114
637009501	slr1124	phosphoglycerate mutase	160.603	226.871	66.841	60.339
637009549	slr0237	glycogen operon protein; GlgX	75.096	59.494	33.242	126.915
637009652	sll1676	4-alpha-glucanotransferase	84.844	61.203	42.754	28.964
637009665	slr1793	transaldolase	337.314	182.759	236.517	144.617
637009699	sll1196	phosphofructokinase	122.705	83.062	67.901	24.32
637009878	slr1608	glucose dehydrogenase-B	33.264	13.962	15.488	155.623
637010171	sll1070	transketolase	846.42	1351.14	882.118	598.53
637010216	slr1897	SrrA	52.229	70.968	50.923	35.88
637010244	slr1202	lactose transport system permease protein; LacF	81.172	77.328	55.647	34.89
637010269	slr2074	mannose-6-phosphate isomerase	95.989	75.729	65.238	69.678
637010310	slr1840	hypothetical protein	96.325	110.848	43.085	58.276

637010313	slr1843	glucose-6-phosphate 1-dehydrogenase	241.311	146.375	136.416	25.843
637010357	slr1748	hypothetical protein	45.793	49.191	34.599	115.505
637010371	slr1224	cytoplasmic membrane protein for maltose uptake	54.302	51.166	31.631	22.52
637010407	slr1438	hypothetical protein	226.596	101.454	133.583	54.398
637010414	sll1356	glycogen phosphorylase	47.275	37.791	61.768	13.471
637010425	slr1448	fructokinase	31.222	18.539	20.535	28.088
637010439	sll1275	pyruvate kinase	111.582	120.826	50.869	50.029
637010451	slr1367	glycogen phosphorylase	129.863	159.073	95.507	122.05
637010474	slr0884	glyceraldehyde-3-phosphate dehydrogenase	165.758	63.307	59.725	21.359
637010498	sll1314	C4-dicarboxylase binding protein	70.855	59.144	56.721	3.438
637010506	sll1306	hypothetical protein	310.057	203.508	208.343	9.996
637010508	sll1304	hypothetical protein	182.854	176.971	198.646	6.538
637010515	slr1855	hypothetical protein	587.852	310.47	381.583	12.304
637010517	slr1857	glycogen operon protein; GlgX	432.22	165.747	197.039	26.235
637010525	slr1865	hypothetical protein	21.211	24.253	14.34	5.681
637010529	sll1775	hypothetical protein	75.995	74.962	35.233	28.306
637010558	sll1758	hypothetical protein	248.441	144.957	102.44	189.302
637010633	slr1734	OxPPCycle gene	211.408	79.479	96.408	68.742
637010675	sll0842	neopullulanase	20.692	18.789	18.144	19.096
637010702	sll1154	quinolene resistance protein; NorA	104.373	51.086	57.549	116.959
637010727	sll1959	extragenic suppressor	11.961	18.052	7.911	25.254
637010730	slr2057	aquaporin Z	1787.865	1245.335	1263.12	60.943
637010780	slr1723	lactose transport system permease protein; LacG	53.228	55.737	33.549	15.961
637010856	slr2094	GlpX protein	1823.117	2706.446	1397.452	618.753
637010890	sll1415	inorganic polyphosphate/ATP-NAD kinase	66.905	61.644	32.436	63.776
637010970	slr1334	hypothetical protein	71.114	60.495	44.792	35.135
637011008	sll0807	ribulose-phosphate 3-epimerase	676.983	695.767	479.457	712.662
637011040	slr1349	glucose-6-phosphate isomerase	214.977	237.5	121.385	117.847
637011063	slr1966	hypothetical protein	167.032	82.193	65.686	27.321

637011082	slr1975	renin-binding protein	100.172	127.293	47.303	10.905
637011120	sll1383	extragenic suppressor; SuhB	73.937	65.631	37.059	525.85
637011132	sll1374	melibiose carrier protein	195.145	118.704	129.765	171.434
637011203	ssl2153	ribose phosphate isomerase B	15.033	15.058	11.616	11.823
637011227	sll1566	alpha,alpha-trehalose-phosphate synthase	46.022	59.631	87.827	6497.467
637011278	slr0943	fructose-bisphosphate aldolase	140.346	146.246	128.104	36.518
637011293	slr0952	fructose-1,6-bisphosphatase	94.086	105.883	85.916	321.418
637011309	sll1538	beta-glucosidase	31.86	32.303	26.935	3.965
637011373	slr0280	hypothetical protein	113.546	63.621	59.991	65.964
637011401	slr0394	phosphoglycerate kinase	994.624	1937.142	930.214	247.93
637011410	slr0400	inorganic polyphosphate/ATP-NAD kinase	59.486	45.133	41.221	40.412
637011474	slr1935	hypothetical protein	58.224	61.809	33.314	62.137
637011493	slr1945	phosphoglyceromutase	599.691	425.716	353.089	130.993
637011508	sll0945	glycogen synthase	146.815	184.89	123.821	78.995
637011514	slr0323	alpha-mannosidase	13.501	18.177	9.957	8.343
637011534	slr0337	hypothetical protein	13.173	11.598	11.962	12.339
637011564	sll0158	glycogen branching enzyme	219.462	293.755	144.117	98.411
637011596	sll0329	6-phosphogluconate dehydrogenase	491.587	340.154	414.119	119.478
637011608	sll0771	glucose transport protein	241.414	140.759	200.674	58.158
637011637	slr0783	triosephosphate isomerase	131.443	277.342	98.047	49.213
637011680	sll0018	fructose-bisphosphate aldolase	2483.634	4781.176	3516.134	2287.729
637011686	slr0009	methionine sulfoxide reductase A	3747.296	5692.323	3283.066	985.036
637011823	slr0493	phosphomannose isomerase	171.28	114.037	93.043	16.174
637011863	slr0642	integral membrane protein	47.643	33.81	22.07	159.246
637011877	sll0395	hypothetical protein	127.382	92.703	80.476	18.874
637011914	slr0194	ribose-5-phosphate isomerase A	202.285	243.138	109.026	328.62
637012053	sll0083	phosphoheptose isomerase	507.832	377.345	249.156	75.42
637012115	sll0593	glucokinase	63.351	37.53	33.412	49.459
637012117	slr0616	hypothetical protein	38.798	28.799	26.159	33.764

637012125	sll0587	pyruvate kinase	65.283	26.791	30.813	26.916
637012136	sll0107	keto-hydroxyglutarate-aldolase/keto-deoxy- phosph	16.039	14.132	11.631	25.567
637012172	slr0301	phosphoenolpyruvate synthase	31.731	9.788	18.911	24.606
637012205	slr0795	hypothetical protein	7.051	6.726	6.12	3.688
637012206	slr0796	nickel resistance	23.615	13.938	13.859	30.807
637012274	sll0745	phosphofructokinase	24.086	23.963	18.761	19.166
637012321	slr0529	hypothetical protein	7.053	12.064	11.922	485.854
637012322	slr0530	membrane bound sugar transport protein	13.493	21.799	18.096	390.752
637012323	slr0531	membrane bound sugar transport protein	16.464	21.543	14.182	267.549
637012331	slr0537	hypothetical protein	250.216	291.805	145.035	47.537
637012381	sll0529	hypothetical protein	94.307	172.801	83.507	78.21
637012394	slr1420	hypothetical protein	19.08	16.705	12.569	19.352
637012398	sll1342	glyceraldehyde-3-phosphate dehydrogenase	2102.345	2287.504	1382.896	584.618
637012414	sll1329	monophosphatase	70.757	46.196	35.187	55.129
637012474	slr1563	hypothetical protein	93.984	60.722	47.469	86.476
637012498	sll1479	6-phosphogluconolactonase	91.586	27.797	42.419	15.566
637012513	slr0747	ATP-binding subunit of an ABC-type osmolyte transp	23.903	39.642	29.618	246.335
637012521	slr0752	phosphopyruvate hydratase	356.403	460.503	225.99	110.004
637012531	sll0726	phosphoglucomutase	189.057	154.01	138.746	43.363
637012544	sll1549	hypothetical protein	15.328	36.131	9.022	81.975
637012580	slr0453	putative phosphoketolase	110.583	121.853	145.493	34.421
637012594	slr1176	glucose-1-phosphate adenylyltransferase	378.573	477.917	256.452	35.159
637012299	sll0036	methylglyoxal synthase	55.131	33.313	29.891	7.973
637012468	sll1496	mannose-1-phosphate guanyltransferase	63.888	46.224	35.723	68.193
637011522	slr0329	xylose repressor	47.119	49.91	29.034	36.925
637009434	sll1213	hypothetical protein	211.774	258.812	146.499	78.365
637009752	slr0977	ABC transporter	108.283	99.615	131.16	36.926
637009756	slr0982	ABC transporter	82.608	89.082	93.634	15.822
637009758	slr0984	CDP-glucose-4,6-dehydratase	151.586	142.509	161.164	52.298

637009767	slr1617	hypothetical protein	72.802	137.703	103.796	26.062
637010013	slr1020	sulfolipid biosynthesis protein; SqdB	774.844	864.49	677.075	616.628
637010099	slr1706	dihydroflavonol 4-reductase	49.587	55.029	20.475	117.014
637010326	slr1540	hypothetical protein	96.503	131.894	91.337	96.558
637010911	slr2107	polysialic acid transport protein; KpsM	18.514	20.794	11.979	30.735
637010912	slr2108	polysialic acid transport ATP-binding protein; KpsT	28.005	20.264	15.263	9.439
637010972	sll1218	hypothetical protein	109.799	98.831	65.011	21.281
637010981	slr0809	dTDP-glucose 4-6-dehydratase	182.337	156.284	99.834	86.464
637011239	ssr2802	ABC transporter	6.36	10.939	9.317	5.654
637011409	slr0399	ycf39 gene product	106.78	109.328	42.859	135.081
637011824	sll0456	hypothetical protein	40.103	47.413	24.531	25.444
637012010	slr0583	hypothetical protein	97.917	103.829	52.228	87.051
637012150	sll0096	hypothetical protein	33.911	26.374	16.087	20.401
637012191	slr0317	hypothetical protein	7.95	10.157	6.613	9.895
637012621	sll0576	HrEpiB	226.405	446.809	146.614	23.737
637012622	sll0575	ATP-binding protein	46.691	105.01	33.963	22.95
637012623	sll0574	integral membrane O-antigen translocator protein	56.82	51.809	46.505	12.535
637010413	sll1358	hypothetical protein	152.74	53.051	79.787	8.632
637011186	sll1433	hypothetical protein	76.322	30.432	33.882	29.079
637009429	slr0611	solanesyl diphosphate synthase	18.374	8.247	6.544	29.371
637009451	sll1407	hypothetical protein	2.152	7.085	1.891	5.165
637009480	slr1115	hypothetical protein	65.228	40.229	48.89	24.458
637009482	slr1117	hypothetical protein	31.55	31.45	25.183	10.218
637009540	slr0739	geranylgeranyl pyrophosphate synthase	247.479	161.897	113.501	253.772
637009552	slr0239	precorrin methylase	30.241	21.229	11.391	12.098
637009569	slr0252	precorrin-6x reductase	12.235	23.833	6.858	125.668
637009602	slr1093	7,8-dihydro-6-hydroxymethylpterin-pyrophosphokin	60.162	38.03	38.136	209.267
637009610	slr1099	3-octaprenyl-4-hydroxybenzoate carboxy-lyase	20.463	26.361	13.194	42.776
637009639	slr1777	Mg chelatase subunit; ChlD	56.48	44.414	26.912	112.075

637009643	slr1779	pyridoxal phosphate biosynthetic protein	213.494	212.352	90.002	34.384
637009654	slr1787	thiamine monophosphate kinase	26.033	18.495	19.494	30.394
637009685	sll1655	biotin [acetyl-CoA-carboxylase] ligase	262.685	162.834	156.158	624.543
637009687	sll1653	ubiquinone/menaquinone biosynthesis methyltrans	93.885	105.567	62.399	478.865
637009717	sll1185	coproporphyrinogen III oxidase	306.518	318.892	245.439	68.2
637009732	sll0936	hypothetical protein	53.82	37.093	29.493	24.937
637009733	slr0969	precorrin methylase	52.684	29.74	18.826	8.184
637009742	sll0927	S-adenosylmethionine synthetase	528.295	996.067	266.803	92.22
637009768	slr1618	hypothetical protein	134.145	289.33	201.351	65.456
637009779	slr1071	hypothetical protein	43.835	79.992	64.792	1.324
637009839	sll0635	thiamine-phosphate pyrophosphorylase	73.548	68.03	43.98	38.462
637009856	slr1598	lipoyl synthase	98.692	78.176	51.054	30.533
637009879	sll1501	cobyrinic acid a,c-diamide synthase	19.199	14.151	13.615	9.377
637009880	sll1500	hypothetical protein	27.538	19.309	17.677	24.482
637009897	slr1055	cobaltochelatase	180.404	214.928	148.789	57.842
637009916	sll1643	hypothetical protein	59.361	43.159	50.386	122.51
637010026	slr1030	Mg chelatase subunit; ChlI	170.445	195.009	98.372	107.463
637010041	slr1039	hypothetical protein	36.204	28.849	22.882	35.448
637010132	sll1917	coproporphyrinogen III oxidase	4.99	5.176	3.48	11.09
637010133	sll1916	nicotinic acid mononucleotide adenyltransferase	25.63	19.871	14.839	45.066
637010135	slr2026	dihydropteroate pyrophosphorylase	27.239	14.452	15.49	16.846
637010254	slr1211	cobaltochelatase	3.038	6.176	2.499	1.955
637010325	slr1538	cobalt-precorrin-6A synthase	19.446	22.348	11.421	7.25
637010398	sll1127	naphthoate synthase	72.589	53.198	36.978	57.895
637010431	sll1282	riboflavin synthase subunit beta	685.507	493.344	337.58	492.232
637010443	slr1364	biotin synthetase	292.356	218.436	153.149	224.583
637010452	slr1368	precorrin-6B methylase	60.756	67.235	33.257	64.057
637010477	sll0868	lipoyl synthase	38.788	26.832	20.332	21.092
637010554	slr1879	precorrin-2 methyltransferase	7.538	12.154	7.838	9.214

637010561	slr1882	hypothetical protein	21.691	21.121	10.339	45.175
637010567	slr1885	hypothetical protein	71.774	52.466	41.336	102.041
637010570	slr1887	porphobilinogen deaminase	238.951	203.028	124.824	110.18
637010603	slr1808	glutamyl-tRNA reductase	309.892	209.2	145.912	24.677
637010617	sll1693	hypothetical protein	59.448	71.946	41.314	14.54
637010639	slr1736	hypothetical protein	89.659	57.621	64.313	19.763
637010708	ssl2296	pterin-4a-carbinolamine dehydratase	122.744	120.341	119.293	98.63
637010766	sll1612	folyl-polyglutamate synthetase	66.448	51.6	20.02	9.015
637010803	slr0260	cob(I)yrinic acid a,c-diamide adenosyltransferase	91.474	81.212	53.728	49.392
637010811	sll0250	hypothetical protein	157.946	100.157	73.477	125.012
637010898	slr1518	1,4-dihydroxy-2-naphthoate octaprenyltransferase,	324.491	207.579	152.028	68.733
637010936	sll1994	delta-aminolevulinic acid dehydratase	247.813	205.213	145.059	76.333
637010949	sll1234	S-adenosyl-L-homocysteine hydrolase	593.374	784.607	703.619	360.282
637010998	sll0809	hypothetical protein	12.777	5.776	6.738	8.86
637011007	slr0821	hypothetical protein	226.883	241.899	174.453	95.763
637011062	sll1894	bifunctional 3,4-dihydroxy-2-butanone 4-phosphate	47.478	31.865	18.839	248.596
637011068	sll1890	CobN protein	38.986	37.098	26.224	26.132
637011090	sll1876	coproporphyrinogen III oxidase	5.638	7.77	6.079	2.833
637011112	slr1467	precorrin-8X methylmutase	31.829	17.533	16.598	46.325
637011178	sll1440	pyridoxamine 5'-phosphate oxidase	153.139	101.918	65.494	34.366
637011270	slr0936	nicotinate-nucleotide pyrophosphorylase	34.035	26.512	25.738	81.663
637011273	sll0916	precorrin-8X methylmutase	16.28	18.709	11.374	11.672
637011311	slr1626	hypothetical protein	108.417	161.316	79.963	43.137
637011328	sll1530	hypothetical protein	73.068	126.902	57.015	4.997
637011365	sll0418	sterol-C-methyltransferase	98.692	95.582	65.338	82.953
637011421	slr0407	hypothetical protein	22.39	22.627	18.167	10.891
637011457	slr1925	cobalamin biosynthesis protein	9.012	18.943	11.21	13.649
637011505	slr0994	lipoyltransferase	39.667	33.679	24.43	8.481
637011518	sll0300	riboflavin synthase subunit alpha	29.251	18.834	18.364	83.395

637011554	sll0166	uroporphyrin-III synthase	53.099	38.878	38.803	74.02
637011631	sll0753	methylenetetrahydrofolate dehydrogenase /mether	121.08	99.639	63.832	25.876
637011681	sll0017	glutamate-1-semialdehyde aminotransferase	268.978	439.121	146.273	75.468
637011711	slr0216	adenosylcobinamide kinase	12.925	10.888	9.66	8.208
637011764	ssr0102	hypothetical protein	168.544	154.312	120.785	37.46
637011779	slr0056	bacteriochlorophyll a synthase	288.496	360.382	194.386	72.027
637011795	slr0066	riboflavin biosynthesis protein	26.992	22.335	15.582	6.344
637011815	slr0482	hypothetical protein	36.652	30.685	20.17	9.856
637011826	slr0495	lipopeptide antibiotics iturin a biosynthesis protein	2.317	3.644	2.037	2.266
637011856	slr0636	cobalamin synthase	28.95	22.2	14.595	14.038
637011867	sll0603	2-oxoglutarate decarboxylase	53.4	34.31	27.555	13.491
637011895	sll0378	uroporphyrin-III C-methyltransferase	14.744	22.055	11.026	41.636
637011907	slr0426	GTP cyclohydrolase I	176.839	299.232	104.138	196.625
637011951	slr0900	molybdopterin biosynthesis; MoeA	53.581	79.492	46.413	66.507
637011952	slr0901	molybdenum cofactor biosynthesis protein A	12.565	36.789	17.639	13.498
637011953	slr0902	bifunctional molybdenum cofactor biosynthesis prot	16.778	33.301	17.658	10.967
637011954	ssr1527	hypothetical protein	6.981	22.296	10.08	8.688
637011955	slr0903	molybdopterin (MPT) converting factor, subunit 2	13.33	30.825	15.507	8.017
637011967	slr0917	8-amino-7-oxononanoate synthase	1603.277	1135.836	5308.102	3866.843
637011972	sll0892	aspartate 1-decarboxylase precursor	89.39	70.897	53.412	71.453
637012026	sll0829	methyltransferase	84.921	58.236	43.697	41.093
637012027	slr0839	ferrochelatase	406	240.174	154.024	481.344
637012041	slr0847	phosphopantetheine adenylyltransferase	32.914	27.952	27.177	28.943
637012054	slr0078	hypothetical protein	87.183	71.401	45.887	41.494
637012066	slr0089	delta(24)-sterol C-methyltransferase	105.122	67.843	53.904	35.846
637012077	sll0487	hypothetical protein	75.848	58.698	40.93	22.351
637012109	slr0523	dithiobiotin synthetase	84.178	64.647	50.582	469.117
637012121	slr0618	cobyric acid synthase	35.993	23.12	16.335	42.311
637012145	sll0099	precorrin-6y methylase	6.181	9.97	5.399	6.69

637012161	slr0118	thiamine biosynthesis protein ThiC	454.197	438.671	447.012	249.908
637012174	slr0303	hypothetical protein	26.937	20.203	13.573	23.475
637012198	slr0788	hypothetical protein	4.945	3.402	2.173	60.341
637012266	sll0660	4-hydroxythreonine-4-phosphate dehydrogenase	24.859	17.6	13.861	10.032
637012316	slr0525	Mg-protoporphyrin IX methyl transferase	144.218	143.805	78.406	431.783
637012317	slr0526	3-methyl-2-oxobutanoate hydroxymethyltransferase	88.603	82.551	40.204	259.903
637012328	slr0536	uroporphyrinogen decarboxylase	286.369	254.192	138.01	72.201
637012356	slr0926	4-hydroxybenzoate octaprenyltransferase	287.964	126.335	179.557	197.129
637012379	slr0553	hypothetical protein	87.845	143.981	46.61	115.633
637012433	slr0651	hypothetical protein	92.123	151.626	62.888	109.331
637012435	sll0631	L-aspartate oxidase	67.987	47.675	38.725	42.897
637012456	sll0622	quinolinate synthetase	22.251	21.603	15.659	61.896
637012635	sll0564	hypothetical protein	141.707	85.67	72.42	48.096
637471878	sll5076	hypothetical protein	5.032	18.082	7.503	1.957
637472142	sll6053	hypothetical protein	17.949	25.684	22.46	299.834
637009947	sll1945	1-deoxy-D-xylulose-5-phosphate synthase	371.488	361.317	283.171	223.085
637010396	slr1238	glutathione synthetase	125.182	124.954	92.135	233.359
637012207	sll0794	mercuric resistance operon regulatory protein; prec	34.561	28.204	11.817	117.14
637009442	slr1318	iron(III) dicitrate transport system permease protein	31.919	31.788	14.027	26.106
637011313	sll1536	molybdopterin biosynthesis protein MoeB	279.652	389.781	264.993	91.677
637011000	slr0817	menaquinone-specific isochorismate synthase	41.455	43.05	28.295	28.819
637009680	sll1659	hypothetical protein	64.669	33.567	36.576	19.812
637010077	sll1285	hypothetical protein	22.969	24.007	18.54	4.7
637010775	slr1718	2-phosphosulfolactate phosphatas	326.417	319.866	152.951	118.81
637011261	slr1691	NAD(+) synthetase	31.129	39.147	22.5	7.283
637009515	sll0711	4-diphosphocytidyl-2-C-methyl-D-erythritol kinase	73.182	46.642	31.501	88.25
637009827	sll0644	esterase	32.759	16.013	13.963	11.649
637009858	sll1510	hypothetical protein	14.368	13.438	12.803	3.09
637009881	slr1609	long-chain-fatty-acid CoA ligase	74.57	81.881	60.787	7.885

637009893	slr1051	enoyl-(acyl carrier protein) reductase	105.045	146.385	74.834	57.455
637009933	sll1752	hypothetical protein	74.58	40.032	33.252	320.113
637010129	slr2023	acyl-carrier-protein S-malonyltransferase	56.073	77.017	32.636	50.543
637010292	slr1830	poly(3-hydroxyalkanoate) synthase	39.873	41.932	41.435	12.621
637010328	slr1542	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synth	64.308	68.236	36.601	38.952
637010330	sll1468	b-carotene hydroxylase	197.144	175.776	162.228	46.174
637010453	slr1369	phosphatidate cytidylyltransferase	121.492	129.541	78.472	281.446
637010582	slr2136	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synth	158.689	132.841	89.751	187.306
637010602	slr1807	hypothetical protein	31.461	21.364	20.574	63.514
637010714	slr1255	phytoene synthase	160.546	137.061	81.228	145.74
637010749	slr1993	acetyl coenzyme A acetyltransferase (thiolase)	92.703	51.933	47.593	30.409
637010767	sll1611	hypothetical protein	22.587	37.022	11.461	1.926
637010774	sll1605	(3R)-hydroxymyristoyl ACP dehydratase	236.506	220.306	110.175	37.176
637010845	slr2089	squalene-hopene-cyclase	122.079	113.032	74.811	287.977
637010865	slr2103	hypothetical protein	46.181	37.758	23.876	94.705
637010885	slr1510	fatty acid/phospholipid synthesis protein	141.053	111.302	67.238	162.29
637010886	slr1511	3-oxoacyl-(acyl carrier protein) synthase	101.762	110.851	40.303	39.933
637011041	slr1350	fatty acid desaturase	148.307	167.488	76.364	25.733
637011177	sll1441	delta 15 desaturase	23.215	38.519	11.18	2.262
637011292	slr0951	2-C-methyl-D-erythritol 4-phosphate cytidylyltransfe	21.806	31.05	16.023	22.03
637011344	sll1522	CDP-diacylglycerol--glycerol-3-phosphate 3-phospha	18.444	21.565	17.768	25.444
637011382	sll0262	delta-6 desaturase	130.065	221.272	89.84	3.958
637011484	sll1848	hypothetical protein	86.622	56.256	31.802	31.299
637011583	sll0336	acetyl-CoA carboxylase beta subunit	168.048	138.919	105.06	209.157
637011679	sll0019	1-deoxy-D-xylulose 5-phosphate reductoisomerase	110.135	126.112	71.599	86.575
637011722	slr0224	hypothetical protein	1.48	0.606	2.478	1.316
637011731	slr0229	3-hydroxyisobutyrate dehydrogenase	23.998	29.288	24.945	15.389
637011750	slr0435	biotin carboxyl carrier protein of acetyl-CoA carboxy	368.56	302.147	160.437	138.877
637011798	sll0053	acetyl-CoA carboxylase	72.922	48.613	33.135	25.161

637012002	sll0542	acetyl-coenzyme A synthetase	154.569	147.133	98.961	31.903
637012004	sll0541	acyl-CoA desaturase 1	674.334	335.329	520.902	150.273
637012085	sll0482	hypothetical protein	73.796	55.428	42.19	42.906
637012324	sll0513	hypothetical protein	350.86	250.216	166.624	76.882
637012333	sll0506	hypothetical protein	70.063	38.591	36.367	46.207
637012526	sll0728	acetyl-CoA carboxylase alpha subunit	84.024	72.255	42.64	162.315
637012541	slr1652	hypothetical protein	90.02	51.568	58.204	113.956
637472063	slr8023	hypothetical protein	36.624	17.997	19.375	19.581
637011917	slr0197	ComE ORF1	28.311	24.168	33.73	11.574
637011651	slr0348	4-hydroxy-3-methylbut-2-enyl diphosphate reductas	100.418	134.143	75.227	54.89
637010172	sll1069	3-oxoacyl-(acyl carrier protein) synthase	379.686	617.597	280.163	75.662
637010173	ssl2084	acyl carrier protein	744.136	1115.735	511.396	29.359
637010960	slr1332	3-oxoacyl-(acyl carrier protein) synthase	17.243	30.072	12.955	23.497
637011822	slr0492	O-succinylbenzoic acid--CoA ligase	13.563	9.319	8.515	3.27
637010177	sll1825	short chain dehydrogenase	78.13	73.052	68.977	23.877
637010479	slr0886	3-ketoacyl-(acyl-carrier-protein) reductase	179.11	182.831	90.42	39.603
637010595	sll1709	glucose dehydrogenase	106.207	82.237	49.791	29.43
637010599	sll1704	cell-cell signaling protein, C-factor	12.473	16.745	5.174	6.336
637010750	slr1994	3-ketoacyl-acyl carrier protein reductase	134.434	65.826	76.047	30.618
637010930	slr2124	short-chain alcohol dehydrogenase family	89.754	61.769	52.754	27.683
637011131	sll1376	short chain dehydrogenase	206.403	207.708	123.371	156.381
637471881	sll5079	hypothetical protein	34.806	38.534	34.883	13.048
637010251	slr1208	short chain dehydrogenase	34.101	36.207	22.992	20.881
637009430	slr0612	hypothetical protein	7.386	10.132	5.41	36.935
637009508	slr1129	ribonuclease E	207.595	149.056	128.944	811.128
637009511	sll1043	polyribonucleotide nucleotidyltransferase	377.84	496.442	307.53	210.986
637009518	sll0708	dimethyladenosine transferase	14.059	10.955	6.683	5
637009547	slr0744	translation initiation factor IF-2	400.689	311.876	165.836	689.283
637009583	sll0216	hypothetical protein	6.511	12.264	9.878	10.371

637009697	sll1198	tRNA (guanine-N(1)-)-methyltransferase	474.707	364.813	450.748	49.573
637009720	ssr1604	50S ribosomal protein L28	1095.554	1460.152	1094	574.591
637009737	ssl1784	30S ribosomal protein S15	423.585	818.519	407.274	407.109
637009743	sll0926	hypothetical protein	25.289	23.594	18.987	27.039
637009745	slr0974	translation initiation factor IF-3	231.538	220.914	139.1	236.432
637009816	slr0679	Fmu and Fmv protein	82.468	70.98	53.542	51.572
637009845	slr1592	hypothetical protein	3.137	10.018	3.2	15.162
637009891	ssr1736	50S ribosomal protein L32	248.703	195.925	138.787	134.241
637010012	sll0996	hypothetical protein	66.613	72.124	36.811	38.392
637010027	slr1031	tyrosyl-tRNA synthetase	61.057	105.983	44.898	31.915
637010030	ssr1720	tyrosyl tRNA synthetase	24.635	35.249	17.741	14.172
637010087	slr1703	seryl-tRNA synthetase	66.14	100.046	46.608	7.911
637010162	sll1074	leucyl-tRNA synthetase	117.377	138.279	84.677	55.568
637010178	sll1824	50S ribosomal protein L25	515.171	1287.678	524.356	354.579
637010181	ssl3445	50S ribosomal protein L31	618.485	2248.165	775.691	695.686
637010182	sll1822	30S ribosomal protein S9	694.361	1788.56	643.462	664.134
637010183	sll1821	50S ribosomal protein L13	482.031	1774.456	571.665	537.344
637010184	sll1820	tRNA pseudouridine synthase A	791.422	2129.966	683.564	1400.729
637010185	sll1819	50S ribosomal protein L17	753.432	2522.846	691.997	1636.267
637010187	sll1817	30S ribosomal protein S11	789.143	2334.821	592.806	1454.795
637010188	sll1816	30S ribosomal protein S13	717.304	2673.238	749.04	1391.487
637010189	sml0006	50S ribosomal protein L36	11.742	120.445	35.015	54.803
637010190	ssl3441	translation initiation factor IF-1	37.038	237.018	57.603	160.15
637010193	sll1813	50S ribosomal protein L15	640.483	2002.014	478.58	1713.367
637010194	sll1812	30S ribosomal protein S5	644.128	2491.249	511.158	2170.373
637010195	sll1811	50S ribosomal protein L18	406.839	1679.763	321.642	1252.45
637010196	sll1810	50S ribosomal protein L6	424.221	2074.893	374.333	1335.545
637010197	sll1809	30S ribosomal protein S8	275.1	2273.523	319.669	1342.094
637010198	sll1808	50S ribosomal protein L5	337.752	2409.753	332.72	1592.993

637010199	sll1807	50S ribosomal protein L24	455.956	2777.134	404.589	1978.517
637010200	sll1806	50S ribosomal protein L14	363.924	2191.223	333.357	1550.657
637010201	ssl3437	30S ribosomal protein S17	414.65	2677.628	370.316	1470.186
637010202	ssl3436	50S ribosomal protein L29	337.259	2103.502	308.855	1213.076
637010203	sll1805	50S ribosomal protein L16	482.462	2196.378	324.707	1584.819
637010204	sll1804	30S ribosomal protein S3	467.43	2259.676	324.616	2687.387
637010205	sll1803	50S ribosomal protein L22	609.009	2789.953	397.357	3515.073
637010206	ssl3432	30S ribosomal protein S19	366.836	2379.066	349.699	2451.412
637010207	sll1802	50S ribosomal protein L2	502.152	2851.162	401.393	3426.443
637010208	sll1801	50S ribosomal protein L23	415.28	2483.242	357.246	2866.23
637010209	sll1800	50S ribosomal protein L4	570.785	2292.214	355.272	3523.137
637010210	sll1799	50S ribosomal protein L3	582.577	2992.323	454.237	5450.558
637010228	ssl2233	30S ribosomal protein S20	932.214	1237.622	715.419	1171.478
637010266	sll1967	hypothetical protein	35.776	33.402	17.193	147.402
637010277	sll1746	50S ribosomal protein L7/L12	889.236	5276.903	699.219	872.997
637010278	sll1745	50S ribosomal protein L10	717.16	5039.885	647.467	983.263
637010279	sll1744	50S ribosomal protein L1	417.214	2202.558	347.932	1455.331
637010280	sll1743	50S ribosomal protein L11	598.211	2399.973	489.944	1476.847
637010284	sll1740	50S ribosomal protein L19	640.357	1384.207	565.626	618.525
637010344	slr1549	peptide deformylase	179.031	168.916	101.118	763.601
637010346	slr1550	lysyl-tRNA synthetase	75.052	97.209	38.257	50.59
637010376	slr1228	peptide chain release factor 3	73.327	74.682	36.985	520.68
637010408	sll1362	isoleucyl-tRNA synthetase	46.071	60.721	23.109	27.117
637010435	slr1356	30S ribosomal protein S1	1119.075	1721.095	639.857	1355.279
637010463	slr0877	glutamyl-tRNA amidotransferase subunit A	256.403	202.357	135.502	683.948
637010546	sll1767	30S ribosomal protein S6	596.514	2589.977	552.909	1079.822
637010565	slr1884	tryptophanyl-tRNA synthetase	64.207	91.527	37.172	20.732
637010673	sll0844	tRNA (5-methylaminomethyl-2-thiouridylate)-methy	107.148	79.291	56.557	343.747
637010744	sll1909	ribosomal protein L11 methyltransferase	131.978	145.592	78.319	109.216

637010777	slr1720	aspartyl-tRNA synthetase	196.719	258.401	103.376	47.666
637010817	sll0245	hypothetical protein	112.91	139.557	66.245	41.102
637010832	ssl0438	50S ribosomal protein L12 honologue	8.904	22.19	6.788	1.131
637010876	sll1425	prolyl-tRNA synthetase	176.911	98.083	80.187	253.867
637010944	sll1237	protoporphyrinogen oxidase	31.292	27.565	27.79	52.076
637010980	slr0808	16S rRNA-processing protein	20.311	34.177	11.206	10.67
637010985	sll0817	tRNA delta(2)-isopentenylpyrophosphate transferas	7.908	9.438	4.965	14.564
637011017	sll1261	elongation factor Ts	285.945	1188.945	234.322	163.355
637011018	sll1260	30S ribosomal protein S2	504.571	2018.741	325.553	407.486
637011045	sll1244	50S ribosomal protein L9	584.324	1105.276	572.898	229.44
637011100	slr1984	30S ribosomal protein S1	309.028	312.439	171.224	92.132
637011103	sll1866	hypothetical protein	66.4	65.116	59.654	106.612
637011115	slr1469	ribonuclease P	648.429	1482.672	504.828	491.788
637011184	sll1435	aspartyl/glutamyl-tRNA amidotransferase subunit B	180.09	139.936	88.734	332.44
637011195	sll1101	30S ribosomal protein S10	199.804	1307.942	275.961	187.232
637011196	sll1099	elongation factor Tu	2704.648	8469.979	3224.264	2374.848
637011197	sll1098	elongation factor EF-2	869.372	1514.47	779.789	1671.752
637011198	sll1097	30S ribosomal protein S7	481.264	1345.117	352.035	1211.604
637011199	sll1096	30S ribosomal protein S12	567.004	1366.966	393.032	626.291
637011230	slr1673	rRNA methylase	51.205	41.527	49.134	563.662
637011235	slr1678	50S ribosomal protein L21	1243.738	2113.409	1028.631	1480.657
637011236	ssr2799	50S ribosomal protein L27	1446.642	2605.656	1356.991	1645.786
637011265	sll1553	phenylalanyl-tRNA synthetase beta subunit	216.119	199.149	109.226	52.332
637011288	slr0950	hypothetical protein	35.385	49.914	20.778	5.551
637011297	slr0955	hypothetical protein	84.747	118.502	67.205	52.21
637011299	slr0958	cysteinyl-tRNA synthetase	70.96	68.867	39.277	147.409
637011315	slr1629	hypothetical protein	43.629	44.164	24.98	16.601
637011388	ssr0482	30S ribosomal protein S16	308.965	322.622	241.161	89.515
637011403	sll0362	alanyl-tRNA synthetase	67.933	62.791	32.048	52.627

637011438	sll0145	ribosome releasing factor	450.423	544.572	268.047	134.591
637011458	sll1865	peptide chain release factor 2	41.594	34.162	18.03	40.324
637011483	slr1938	translation initiation factor IF-2B subunit alpha	132.696	108.835	69.422	175.942
637011502	slr0992	hypothetical protein	39.4	42.74	30.802	41.636
637011504	sll0947	light repressed protein	410.825	281.571	442.461	107.608
637011573	slr0361	hypothetical protein	42.13	39.716	25.874	38.472
637011612	sll0767	50S ribosomal protein L20	869.291	1895.05	1058.283	297.569
637011613	ssl1426	50S ribosomal protein L35	267.687	892.643	404.808	126.473
637011629	sll0754	ribosome-binding factor A	404.96	260.497	224.734	433.693
637011649	sll0320	ribonuclease D	116.583	102.963	72.531	29.646
637011669	slr0357	histidyl-tRNA synthetase	36.542	40.685	16.765	31.805
637011683	slr0006	hypothetical protein	131.287	125.156	123.468	113.683
637011717	slr0220	glycyl-tRNA synthetase beta subunit	107.515	96.833	47.268	55.534
637011719	sll0204	glucose-inhibited division protein A	75.654	51.516	34.442	43.985
637011749	slr0434	elongation factor P	580.329	572.281	296.854	195.976
637011801	slr0070	methionyl-tRNA formyltransferase	33.549	41.469	24.645	17.065
637011804	slr0469	30S ribosomal protein S4	1336.569	2796.982	970.094	1454.464
637011828	sll0454	phenylalanyl-tRNA synthetase alpha subunit	151.724	159.363	97.525	237.276
637011845	slr0628	30S ribosomal protein S14	915.86	1916.588	952.125	2269.333
637011858	slr0638	glycyl-tRNA synthetase alpha subunit	104.561	140.733	83.371	70.735
637011866	slr0644	hypothetical protein	9.969	8.533	5.653	5.861
637011872	slr0649	methionine--tRNA ligase	97.514	77.048	57.578	75.808
637011930	sll0179	glutamyl-tRNA synthetase	96.269	144.707	45.662	52.256
637011969	slr0918	methionine aminopeptidase	47.325	56.92	26.74	120.811
637011976	slr0922	peptidyl-tRNA hydrolase	72.212	75.44	59.893	15.397
637011982	sll0555	methionine aminopeptidase	207.266	178.694	84.555	430.059
637011991	sll0546	hypothetical protein	102.216	120.548	94.653	255.352
637012012	ssr1398	50S ribosomal protein L33	222.027	742.403	195.47	127.222
637012013	ssr1399	30S ribosomal protein S18	375.248	1275.126	370.839	194.366

637012024	sll0830	translation elongation factor EF-G	45.451	19.605	27.998	10.633
637012028	sll0828	6-aminohexanoate-cyclic-dimer hydrolase	79.483	63.745	36.361	87.926
637012032	sll0825	polyA polymerase	27.454	43.305	16.115	11.959
637012059	slr0082	hypothetical protein	163.731	131.896	77.376	1969.644
637012063	sll0078	threonyl-tRNA synthetase	77.333	74.464	37.364	52.237
637012110	sll0467	S-adenosylmethionine:tRNA ribosyltransferase-isom	22.148	31.193	12.044	8.597
637012163	slr0120	hypothetical protein	19.951	18.791	9.245	16.893
637012192	slr0318	hypothetical protein	42.089	66.459	32.589	15.716
637012195	slr0786	methionine aminopeptidase	13.738	14.729	5.227	298.485
637012259	slr0709	hypothetical protein	99.626	60.979	46.909	15.927
637012268	slr0713	queuine tRNA-ribosyltransferase	146.538	119.412	76.663	33.383
637012297	slr0033	hypothetical protein	196.256	163.945	104.385	298.062
637012320	sll0514	hypothetical protein	196.58	119.505	104.311	180.632
637012337	sll0502	arginyl-tRNA synthetase	40.313	51.303	27.213	82.118
637012348	sll0495	asparaginyl-tRNA synthetase	52.787	54.34	28.315	29.504
637012387	slr0557	valyl-tRNA synthetase	117.498	140.392	82.049	60.273
637012429	slr1463	elongation factor EF-2	423.223	703.073	269.675	571.913
637012586	slr0457	tRNA pseudouridine synthase B	19.659	18.562	10.527	15.078
637012598	sll1110	peptide chain release factor 1	119.8	133.415	58.322	62.568
637471917	slr5115	hypothetical protein	25.717	33.631	19.791	15.119
637012060	slr0083	ATP-dependent RNA helicase; DeaD	408.932	429.847	277.866	5411.851
637009757	slr0983	alpha-D-glucose-1-phosphate cytidylyltransferase	102.455	107.367	103.054	18.613
637011254	sll1558	mannose-1-phosphate guanyltransferase	128.609	110.703	67.068	54.552
637011684	slr0007	hypothetical protein	119.891	139.421	120.683	142.849
637011031	sll1253	polyA polymerase	16.147	12.796	8.765	5.343
637009445	sll1205	regulatory protein; PchR	15.754	25.805	8.242	7.626
637009450	sll1408	regulatory protein; PcrR	1.65	3.891	0.932	0.587
637009458	slr1489	regulatory protein; PchR	8.301	16.826	6.08	19.218
637009476	sll1392	hypothetical protein	18.519	13.374	10.746	175.616

637009521	slr0724	HtaR suppressor protein	33.004	20.272	18.13	16.504
637009545	slr0743	transcription elongation factor NusA	99.517	195.975	58.797	333.493
637009546	slr0743a	hypothetical protein	125.257	222.044	96.816	426.268
637009553	slr0240	hypothetical protein	307.722	188.317	148.841	96.364
637009662	sll1670	heat-inducible transcription repressor	55.58	46.533	37.832	31.151
637009855	sll1512	hypothetical protein	63.134	39.503	35.407	280.636
637010007	sll0998	LysR transcriptional regulator	275.287	181.286	134.604	87.658
637010063	sll1290	ribonuclease II	93.714	81.389	56.248	76.142
637010072	sll1286	hypothetical protein	54.101	21.007	23.957	7.73
637010141	sll1910	protein conferring resistance to acetazolamide; Zam	88.57	85.175	59.051	98.263
637010186	sll1818	DNA-directed RNA polymerase alpha subunit	629.472	2585.881	589.92	1813.737
637010225	sll1789	DNA-directed RNA polymerase beta' subunit	456.366	917.909	402.194	1321.484
637010226	sll1787	DNA-directed RNA polymerase beta subunit	404.685	710.743	341.18	857.357
637010256	slr1213	AraC subfamily	12.773	10.577	8.613	2.734
637010281	sll1742	transcription antitermination protein NusG	298.432	786.895	247.016	1168.957
637010333	slr1545	RNA polymerase sigma-70 factor	2672.961	1517.017	1740.327	1348.323
637010334	slr1546	hypothetical protein	571.337	409.371	413.179	425.028
637010466	slr0880	secreted protein MPB70 precursor	35.255	36.314	20.978	17.652
637010472	slr0883	regulation of penicillin binding protein 5 production	162.461	107.026	60.241	63.241
637010534	slr1871	transcriptional regulator	6.188	8.267	6.556	120.517
637010576	sll2012	RNA polymerase sigma factor	109.458	77.506	48.778	1536.87
637010622	sll1689	RNA polymerase sigma factor	277.852	100.804	103.34	44.012
637010659	sll0856	RNA polymerase sigma-70 factor	60.608	53.999	56.883	35.377
637010696	slr1245	transcriptional regulator	2.645	4.456	2.016	0
637010725	sll1961	hypothetical protein	144.501	79.466	69.932	14.521
637010729	sll1957	arsenical resistance operon repressor	26.167	23.038	22.931	2.423
637010791	sll1594	rubisco operon transcriptional regulator	45.143	74.8	30.381	1198.051
637010990	slr0812	hypothetical protein	21.299	23.004	12.536	9.468
637011094	sll1872	membrane bound protein; LytR	120.157	103.964	72.801	24.238

637011141	slr1265	DNA-directed RNA polymerase gamma chain	508.324	835.175	436.734	881.34
637011321	ssl2982	DNA-directed RNA polymerase omega subunit	184.361	215.89	160.078	60.141
637011339	slr1646	ribonuclease III	330.124	340.686	163.416	301.384
637011372	sll0271	transcription antitermination protein NusB	40.235	25.988	20.832	26.551
637011402	slr0395	transcriptional activator protein; NtcB	4.062	8.257	3.13	2.298
637011511	sll0306	RNA polymerase sigma factor	214.406	173.075	194.74	2142.914
637011626	slr0780	hypothetical protein	195.044	179.705	161.268	147.012
637011645	slr0346	ribonuclease III	97.661	101.145	71.139	13.086
637011834	sll0687	RNA polymerase sigma-70 factor	9.848	11.191	9.274	10.123
637011920	sll0184	RNA polymerase sigma-like factor	63.601	34.656	37.001	52.773
637011946	slr0895	hypothetical protein	15.224	14.064	11.469	1334.204
637012039	slr0846	hypothetical protein	4.347	5.875	5.686	22.224
637012045	sll0088	hypothetical protein	128.258	140.055	87.529	701.884
637012210	sll0792	transcriptional repressor; SmtB	30.127	33.203	13.51	174.858
637012237	slr0701	mercuric resistance operon regulatory protein	24.058	8.561	5.729	1.475
637012306	sll0030	CmpR	5.63	2.121	1.532	10.678
637012438	slr0653	RNA polymerase sigma factor	404.182	372.594	391.837	63.073
637012475	slr1564	sigma factor SigF	160.01	104.366	102.952	89.596
637012490	slr1577	hypothetical protein	115.887	61.087	63.715	39.649
637471837	sll5035	ArsR family transcriptional regulatory protein	20.262	27.879	15.583	1549.628
637471899	sll5097	hypothetical protein	6.151	9.068	8.796	7.747
637471943	sll7009	hypothetical protein	3.634	4.018	3.651	33.441
637471972	ssl7038	hypothetical protein	42.931	41.313	26.578	404.459
637472056	slr8016	plasmid partitioning protein	21.317	16.392	12.268	14.389
637472066	slr8026	MarR family transcriptional regulatory protein	37.289	31.985	22.178	72.117
637472190	slr6101	hypothetical protein	31.892	34.557	22.075	93.781
637009469	slr1495	hypothetical protein	20.191	21.582	12.218	64.397
637011704	slr0020	DNA recombinase	9.907	7.471	6.22	7.34
637011896	sll0377	transcription-repair coupling factor	18.603	19.221	13.117	22.009

637012425	sll1366	helicase of the snf2/rad54 family	28.951	18.716	18.521	15.413
637011266	slr1697	eukariotic protein kinase	105.324	61.49	50.56	74.076
637010095	sll1575	serine/threonine protein kinase	30.474	20.303	17.149	26.604
637010096	sll1574	hypothetical protein	276.299	191.485	187.627	165.878
637010372	slr1225	protein kinase; PknA	45.931	30.566	25.938	44.425
637010418	slr1443	protein kinase	24.2	20.536	15.309	7.033
637011433	slr0152	serine/threonine protein kinase	23.005	15.043	17.172	18.117
637012230	sll0776	eukaryotic protein kinase	7.014	9.172	14.843	5.833
637012637	slr0599	eukaryotic protein kinase	59.591	30.752	33.925	25.16
637010058	sll1296	CheA like protein	188.494	101.321	116.549	58.646
637012289	sll0043	CheA like protein	97.51	70.43	66.314	116.866
637009829	sll0643	urease accessory protein G	113.376	99.602	63.365	61.46
637010156	sll1079	hydrogenase expression/formation protein; HypB	19.412	39.257	20.468	69.695
637011187	sll1432	hydrogenase isoenzyme formation protein; HypB	164.519	79.368	89.589	103.557
637011459	sll1864	chloride channel protein	25.695	18.158	17.449	20.751
637009648	slr1783	NarL subfamily	95.874	76.73	51.047	124.435
637009679	sll1660	hypothetical protein	59.883	38.369	33.172	20.877
637009822	sll0649	OmpR subfamily	81.906	69.862	65.883	79.643
637009882	slr1041	PatA subfamily	44.145	22.488	25.959	26.164
637009883	slr1042	CheY subfamily	266.094	264.933	211.731	196.678
637009988	slr1909	NarL subfamily	161.559	160.092	104.281	43.041
637010036	slr1037	CheY subfamily	20.815	35.16	21.779	38.167
637010061	sll1292	CheY subfamily	333.125	365.661	337.562	88.43
637010062	sll1291	PatA subfamily	179.698	96.138	173.065	38.736
637010130	slr2024	CheY subfamily	222.64	200.935	117.338	63.541
637010143	slr2031	sigma factor SibG regulation protein; RsbU	24.008	15.647	17.849	20.333
637010306	slr1837	OmpR subfamily	82.33	69.901	60.709	54.137
637010519	slr1860	ICFG protein	38.221	32.159	26.881	2.805
637010597	sll1708	NarL subfamily	41.859	18.587	24.063	41.025

637010635	sll1626	SOS function regulatory protein	2768.904	2633.395	2503.362	3058.559
637010637	sll1624	regulatory components of sensory transduction syst	74.841	56.927	41.621	72.156
637010752	sll1905	hybrid sensory kinase	51.433	23.694	26.412	32.94
637010793	sll1592	NarL subfamily	27.738	19.95	21.847	21.073
637010861	slr2099	hybrid sensory kinase	15.597	7.588	8.519	2.912
637010862	slr2100	regulatory components of sensory transduction syst	13.651	19.057	12.66	6.62
637010866	slr2104	hybrid sensory kinase	36.235	31.411	15.002	15.893
637010948	slr1325	(p)ppGpp 3'-pyrophosphohydrolase	132.986	108.889	55.439	122.708
637010956	sll1228	hybrid sensory kinase	54.713	36.823	28.794	63.41
637011069	slr1969	hybrid sensory kinase	18.445	11.386	11.676	19.109
637011084	sll1879	hypothetical protein	76.661	49.311	43.532	47.996
637011096	slr1982	CheY subfamily	325.906	256.099	190.113	249.929
637011097	slr1983	regulatory components of sensory transduction syst	18.765	27.29	13.922	10.7
637011257	sll1555	hybrid sensory kinase	87.801	72.797	56.582	17.652
637011267	sll0921	NarL subfamily	107.295	112.89	68.649	63.896
637011283	slr0947	OmpR subfamily	658.64	464.886	279.995	456.482
637011526	ssl0564	response regulator like protein	202.252	179.08	157.719	165.671
637011808	slr0474	CheY subfamily	68.844	24.137	46.862	7.221
637011846	sll0617	chloroplast membrane-associated 30 kD protein	790.698	668.979	475.615	403.122
637011876	sll0396	OmpR subfamily	97.692	80.258	65.643	78.708
637012058	slr0081	OmpR subfamily	391.765	243.525	182.549	315.587
637012079	sll0485	NarL subfamily	20.225	13.876	15.452	2.714
637012156	slr0114	hypothetical protein	60.714	62.09	40.366	30.971
637012157	slr0115	OmpR subfamily	121.105	157.609	80.782	49.627
637012186	slr0312	NarL subfamily	104.67	99.251	79.744	54.766
637012202	sll0797	OmpR subfamily	4.384	10.892	3.976	2.382
637012213	sll0789	OmpR subfamily	887.362	24.023	12.647	56.13
637012224	sll0782	putative protein kinase	4.022	4.333	4.565	6.052
637012293	sll0039	CheY subfamily	104.942	99.854	79.359	102.626

637012413	sll1330	OmpR subfamily	160.093	54.014	87.048	686.693
637012427	sll1365	hypothetical protein	31.239	30.524	21.992	11.719
637012507	slr1584	OmpR subfamily	95.97	83.905	64.685	16.025
637012511	slr1588	regulatory components of sensory transduction syst	49.103	40.859	38.576	34.247
637012560	sll1544	response regulator like protein	9.499	5.896	6.12	4
637012608	slr1188	chloroplast membrane-associated 30 kD protein	144.125	94.303	75.722	36.803
637471925	sll5123	hypothetical protein	22.107	8.341	8.674	24.918
637472011	sll7077	hypothetical protein	11.212	9.424	12.781	4.984
637472129	slr6040	two-component response regulator	891.293	23.178	11.567	55.694
637009438	sll1209	DNA ligase	26.656	19.899	12.283	2.886
637009470	sll1397	transposase	146.845	284.558	124.696	318.639
637009509	slr1130	ribonuclease HII	133.063	61.41	54.939	458.265
637009532	slr0733	integrase-recombinase protein	38.647	24.365	21.859	76.495
637009535	sll0700	transposase	104.769	204.395	82.762	206.639
637009551	ssl0426	transposase	1.168	3.731	1.467	3.116
637009726	slr0965	DNA polymerase III subunit beta	93.747	155.42	56.287	214.849
637009783	slr1075	transposase	142.395	279.688	123.554	308.569
637009820	sll0651	transposase	97.137	196.042	80.801	189.368
637009874	sll1503	hypothetical protein	7.647	21.331	11.72	6.399
637009889	slr1048	hypothetical protein	12.733	16.815	9.421	5.155
637009898	slr1056	hypothetical protein	4.763	12.58	8.383	2.495
637009905	ssl1920	transposase	49.934	57.752	40.524	111.522
637009955	ssr3452	transposase	1.974	13.094	6.196	4.387
637009956	slr2036	transposase	9.793	25.805	9.116	11.259
637009960	sll1941	DNA gyrase A subunit	47.489	37.325	28.787	32.364
637009983	sll1930	transposase	104.075	204.054	82.544	206.639
637010031	slr1034	hypothetical protein	246.578	173.094	216.445	64.198
637010033	sll0986	transposase	86.971	112.947	69.922	121.502
637010040	sll0980	hypothetical protein	42.967	20.901	25.979	115.878

637010082	sll1583	DNA ligase	145.391	119.705	96.51	28.111
637010083	sll1582	hypothetical protein	4.808	11.663	5.588	0.409
637010102	sll1572	DNA polymerase III alpha subunit	48.387	46.389	39.694	11.752
637010221	slr1902	transposase	95.133	149.355	98.191	127.938
637010222	slr1903	transposase	84.009	116.154	79.111	131.432
637010223	sll1792	transposase	17.613	26.358	17.088	11.388
637010224	sll1791	transposase	39.936	32.489	23.4	25.642
637010227	sll1786	hypothetical protein	605.621	1112.443	546.995	1468.197
637010231	sll1121	hypothetical protein	15.591	7.99	8.017	9.901
637010241	slr1199	DNA mismatch repair protein	17.457	17.106	14.655	30.046
637010314	slr1844	excinuclease ABC subunit A	31.48	31.227	17.801	4.35
637010316	sll1716	transposase	57.678	68.602	48.143	145.479
637010320	sll1712	DNA binding protein HU	4163.458	2903.16	2474.825	309.822
637010323	slr1536	ATP-dependent DNA helicase; RecQ	65.487	23.078	69.396	95.615
637010368	sll1143	DNA helicase II	57.962	48.887	35.393	35.379
637010410	sll1360	DNA polymerase III subunit	19.781	18.231	10.392	6.241
637010422	sll1354	single-strand-DNA-specific exonuclease; RecJ	33.441	26.425	24.493	22.967
637010436	slr1357	transposase	137.541	270.444	117.839	309.648
637010437	sll1277	recombination protein F	8.029	17.461	7.841	21.545
637010459	sll0876	Holliday junction DNA helicase motor protein	36.721	37.946	23.901	18.483
637010485	sll0865	excinuclease ABC subunit C	7.486	5.922	3.955	3.815
637010522	sll1780	transposase	9.793	26.053	9.329	11.709
637010535	sll1772	recombination and DNA strand exchange inhibitor p	22.813	34.451	9.388	41.181
637010585	sll2005	DNA gyrase B subunit	192.466	189.1	105.643	227.702
637010593	slr1803	adenine-specific DNA metylase	18.834	21.141	14.374	5.253
637010594	sll1710	transposase	49.376	64.307	41.285	123.726
637010627	slr1822	endonuclease III	46.834	45.772	38.876	50.195
637010631	sll1629	DNA photolyase	5.8	11.4	4.67	1.121
637010656	slr0854	deoxyribopyrimidine photolyase	41.907	32.327	26.97	46.83

637010664	slr0857	transposase	92.974	184.109	74.921	177.648
637010667	sll0848	chromosomal replication initiation protein	19.677	15.759	10.187	12.609
637010687	sll1165	DNA mismatch repair protein	25.078	28.436	12.674	119.391
637010697	ssr2078	transposase	50.004	34.271	22.718	28.661
637010698	slr1246	transposase	19.187	26.556	18.269	15.636
637010699	sll1157	transposase	81.538	107.857	64.374	106.537
637010700	sll1156	transposase	112.064	169.559	106.036	133.672
637010731	slr2058	DNA topoisomerase I	104.04	90.297	57.522	109.589
637010737	slr2062	transposase	87.646	99.184	91.229	385.155
637010769	slr1716	transposase	105.463	204.566	82.762	206.947
637010787	ssr2898	transposase	48.116	61.147	37.498	113.578
637010810	slr0265	transposase	58.989	69.461	48.418	154.608
637010847	sll1985	transposase	17.172	22.971	11.38	19.931
637010848	sll1984	transposase	104.769	204.395	82.762	206.639
637010850	sll1982	transposase	39.444	64.174	37.748	36.349
637010857	slr2095	transposase	99.971	161.041	100.216	146.932
637010858	slr2096	transposase	92.245	124.855	77.56	147.541
637010902	slr1522	transposase	29.338	47.794	26.026	32.319
637010903	slr1523	transposase	3.122	3.452	2.287	1.619
637010913	sll1999	transposase	3.97	13.82	5.609	5.883
637010914	sll1998	transposase	139.159	274.619	118.855	315.762
637010919	slr2113	transposase	105.463	204.566	82.762	206.947
637010973	sll1217	hypothetical protein	58.254	56.38	33.233	29.497
637010996	sll0811	hypothetical protein	19.91	33.264	22.812	17.7
637011005	ssl1507	transposase	15.378	35.685	21.991	12.912
637011022	sll1257	transposase	104.769	204.395	82.762	206.639
637011027	sll1255	transposase	9.793	26.053	9.329	11.709
637011055	slr1959	hypothetical protein	6.084	7.983	4.6	3.995
637011101	sll1868	DNA primase	6.66	10.26	6.498	14.162

637011111	sll1386	hypothetical protein	11.315	5.07	6.059	33.137
637011162	slr1283	transposase	17.39	33.469	12.737	36.073
637011182	sll1437	transposase	104.769	204.395	82.762	206.639
637011204	sll1094	transposase	5.667	5.57	6.76	5.038
637011246	slr1682	transposase	11.785	23.991	14.533	5.613
637011247	sll1560	transposase	9.793	26.053	9.329	11.709
637011248	slr1683	transposase	9.54	13.851	7.623	14.264
637011259	slr1689	formamidopyrimidine-DNA glycosylase	1405.59	620.472	1144.46	87.642
637011322	slr1635	transposase	9.793	26.053	9.329	11.709
637011346	sll1520	DNA repair protein; RecN	10.176	10.626	5.099	4.262
637011366	slr0446	DNA polymerase III subunit delta	11.09	9.757	9.321	4.453
637011374	sll0270	primosome assembly protein PriA	23.942	18.357	11.921	18.288
637011385	slr0285	hypothetical protein	3.546	9.21	5.565	0.45
637011453	ssr0256	transposase	17.509	20.517	7.187	8.98
637011469	sll1861	transposase	13.02	15.443	10.71	21.553
637011470	sll1860	transposase	62.048	73.97	49.24	147.81
637011475	sll1854	exodeoxyribonuclease III	17.836	25.376	9.114	14.382
637011481	slr1937	transposase	105.463	204.566	82.762	206.947
637011542	sll0177	hypothetical protein	29.46	32.826	19.955	15.278
637011558	slr0180	transposase	9.456	25.888	9.116	11.709
637011560	ssl0296	transposase	17.509	20.186	6.764	8.98
637011561	slr0181	DNA repair protein RecO	54.829	43.539	49.016	68.242
637011594	slr0383	hypothetical protein	33.671	31.287	24.406	13.879
637011614	sll0766	DNA repair protein RadC	53.488	54.181	36.378	97.606
637011653	slr0350	transposase	62.048	74.184	49.378	147.616
637011655	sll0317	transposase	3.443	12.689	5.134	4.209
637011656	slr0352	transposase	146.036	283.564	124.57	317.74
637011677	sll0021	hypothetical protein	35.415	20.708	20.51	36.122
637011691	sll0012	transposase	62.048	73.97	49.378	147.81

637011697	sll0010	hypothetical protein	23.437	31.45	24.618	13.624
637011709	slr0214	cytosine-specific methyltransferase	13.469	18.796	8.794	2.036
637011723	sll0201	transposase	104.769	204.395	82.762	206.639
637011732	slr0230	transposase	146.036	284.359	124.696	318.639
637011733	slr0231	hypothetical protein	0.748	3.125	1.644	3.991
637011793	slr0064	hypothetical protein	79.989	57.351	47.977	46.791
637011809	sll0459	excinuclease ABC subunit B	14.695	22.628	13.463	9.874
637011851	sll0613	Holliday junction DNA helicase RuvB	16.129	11.344	10.423	24.039
637011881	slr0417	DNA gyrase subunit A	171.258	120.907	102.966	686.613
637011903	sll0371	hypothetical protein	4.606	8.945	3.855	0.585
637011909	sll0189	hypothetical protein	55.346	27.755	29.272	21.906
637011993	sll0544	hypothetical protein	41.474	32.17	31.202	42.966
637012018	sll0832	hypothetical protein	25.608	21.096	13.24	10.044
637012020	slr0833	replicative DNA helicase	5.245	8.86	3.664	4.372
637012057	slr0080	ribonuclease H	56.886	73.027	62.051	230.421
637012090	ssr0871	transposase	56.161	101.366	54.921	55.69
637012091	slr0511	transposase	58.122	66.317	46.579	161.865
637012134	slr0099	transposase	29.294	49.637	26.529	29.036
637012160	sll0092	transposase	11.998	13.511	9.729	8
637012200	slr0790	UmuC protein	9.785	16.107	5.529	45.234
637012215	slr0799	transposase	45.581	34.118	28.283	30.156
637012216	slr0800	transposase	16.012	21.44	12.565	9.252
637012240	sll0677	transposase	62.048	73.97	49.24	147.81
637012241	ssl1277	transposase	5.204	6.819	4.9	0
637012244	slr0703	transposase	62.048	74.077	49.24	147.422
637012246	slr0704	transposase	146.036	284.359	124.696	318.639
637012247	ssr1176	transposase	81.773	156.138	72.605	164.609
637012252	slr0707	DNA polymerase I	15.659	21.716	11.651	5.517
637012254	sll0668	transposase	6.31	13.51	7.357	8.815

637012255	sll0667	transposase	26.019	48.968	24.175	28.451
637012257	sll0665	transposase	72.671	87.074	54.373	172.136
637012258	sll0664	hypothetical protein	1.865	6.505	2.224	0.497
637012355	slr0925	single-strand DNA-binding protein	520.801	328.772	387.342	184.367
637012367	sll0896	Holliday juction resolvase; RuvC	24.532	28.295	20.749	10.602
637012404	slr1426	recombination protein RecR	60.435	45.632	30.692	25.99
637012503	sll1474	transposase	9.793	26.053	9.329	11.709
637012509	slr1586	transposase	2.14	2.103	2.351	0
637012525	sll0729	modification methylase	20.815	31.177	12.188	16.726
637012552	sll1547	Holliday junction resolvase-like protein	8.979	9.192	4.932	4.989
637012576	slr0451	antiviral protein	51.045	26.145	28.977	103.748
637012578	sll0441	hypothetical protein	5.463	20.989	14.109	9.714
637012589	slr0460	transposase	55.792	85.451	52.767	53.143
637012590	sll0431	transposase	146.845	284.558	124.696	318.639
637012591	ssr0817	transposase	4.837	22.581	9.111	12.185
637012592	slr0462	transposase	9.159	15.752	6.776	11.341
637012629	sll0569	recombinase A	214.453	217.891	130.179	67.517
637012642	slr0603	DNA polymerase III subunit alpha	16.318	23.367	14.687	22.724
637471812	slr5010	hypothetical protein	18.877	14.812	14.336	188.938
637471831	slr5029	transposase	12.376	15.838	10.684	8.481
637471842	slr5040	transposase	62.011	71.231	52.24	182.587
637471843	sll5041	transposase	31.279	24.593	20.03	11.401
637471870	ssl5068	hypothetical protein	36.152	24.797	20.805	45.532
637471885	sll5083	hypothetical protein	4.938	7.414	5.167	3.414
637471886	sll5084	hypothetical protein	9.58	9.18	7.368	2.555
637471910	ssl5108	hypothetical protein	34.646	24.057	17.968	41.514
637471924	sll5122	hypothetical protein	3.807	4.009	3.244	9.066
637471933	sll5131	transposase	9.793	26.053	9.329	11.709
637471934	sll7106	exodeoxyribonuclease V alpha chain	9.372	15.215	8.364	3.839

637471936	sll7002	transposase	12.392	14.789	8.521	13.378
637471939	slr7005	hypothetical protein	13.932	9.227	7.415	157.782
637471942	slr7008	transposase	9.793	26.053	9.329	11.709
637471949	slr7015	hypothetical protein	2.398	3.829	2.258	2.131
637471950	slr7016	hypothetical protein	11.238	12.597	10.362	8.429
637471951	ssr7017	hypothetical protein	4.82	13.324	9.457	3.214
637471983	slr7049	resolvase	10.07	7.683	5.823	17.198
637471999	sll7065	hypothetical protein	38.307	38.024	86.095	8.173
637472000	sll7066	hypothetical protein	33.68	35.692	87.117	6.233
637472005	slr7071	hypothetical protein	17.665	17.194	18.341	9.966
637472006	ssr7072	hypothetical protein	8.525	16.757	22.556	3.248
637472019	sll7085	hypothetical protein	25.396	31.15	49.762	1.411
637472021	sll7087	hypothetical protein	77.457	54.792	109.545	2.838
637472023	sll7089	hypothetical protein	64.184	29.72	56.665	13.579
637472026	slr7092	hypothetical protein	15.958	7.756	24.611	0.617
637472027	ssr7093	hypothetical protein	1.231	2.722	3.478	0
637472031	slr7097	hypothetical protein	3.834	4.172	8.081	12.418
637472037	sll7103	exodeoxyribonuclease V alpha chain	0	0.436	0	0.394
637472039	slr7105	transposase	106.156	210.703	84.286	207.873
637472069	slr8029	resolvase	15.143	15.775	16.542	194.131
637472082	sll8042	transposase	104.769	210.021	84.068	207.873
637472086	slr8046	transposase	104.769	210.021	84.068	207.873
637472100	slr6011	hypothetical protein	33.824	32.443	33.894	7.807
637472121	ssr6032	hypothetical protein	25.092	24.275	14.768	31.37
637472136	slr6047	hypothetical protein	36.968	23.22	27.17	31.099
637472148	sll6059	hypothetical protein	7.874	8.185	7.986	166.936
637472159	slr6070	hypothetical protein	33.824	32.443	33.894	7.807
637472194	slr6105	transposase	9.793	26.053	9.329	11.709
637472198	sll6109	hypothetical protein	20.095	18.104	13.763	196.246

637009498	sll1054	hypothetical protein	146.757	47.279	53.713	305.873
637010274	slr2078	hypothetical protein	9.981	11.828	9.214	18.268
637010237	slr1197	hypothetical protein	33.857	34.402	19.184	17.728
637009435	sll1212	GDP-D-mannose dehydratase	217.296	365.196	178.195	124.208
637009473	sll1395	dTDP-6-deoxy-L-mannose-dehydrogenase	104.705	86.485	69.57	258.428
637009484	slr1118	UDP-N-acetyl-D-mannosaminuronic acid transferase	8.177	10.269	7.13	5.856
637009524	slr0728	hypothetical protein	85.567	81.266	54.83	52.069
637009578	sll0220	D-fructose-6-phosphate amidotransferase	83.507	66.892	67.664	25.686
637009582	slr0257	carboxyl-terminal protease	316.743	161.234	197.764	284.779
637009601	sll1040	hypothetical protein	20.176	23.501	19.375	39.595
637009632	slr1772	hypothetical protein	27.561	34.304	39.644	88.988
637009703	slr1299	UDP-glucose dehydrogenase	101.874	185.309	92.927	41.809
637009715	sll1187	prolipoprotein diacylglyceryl transferase	69.334	86.463	64.786	84.755
637009749	sll0923	exopolysaccharide export protein	419.063	318.918	439.776	163.287
637009759	slr0985	dTDP-6-deoxy-L-mannose-dehydrogenase	131.354	123.614	125.587	32.14
637009765	slr1615	perosamine synthetase	116.295	135.666	127.814	25.511
637009771	slr1063	hypothetical protein	19.412	53.606	37.707	4.13
637009772	slr1064	mannosyltransferase B	37.331	71.237	59.372	5.808
637009773	slr1065	hypothetical protein	42.65	78.947	60.699	7.127
637009774	slr1066	hypothetical protein	30.472	62.763	46.752	4.177
637009775	slr1067	UDP-glucose-4-epimerase	58.081	88.508	73.453	10.446
637009778	slr1070	hypothetical protein	33.224	39.635	45.737	3.559
637009780	slr1072	GDP-D-mannose dehydratase	101.287	103.836	113.517	11.573
637009781	slr1073	hypothetical protein	28.249	48	42.003	5.287
637009784	slr1076	hypothetical protein	30.269	27.023	49.859	8.259
637009785	slr1077	hypothetical protein	28.99	17.444	40.393	11.572
637009788	slr1078	UDP-glucose-4-epimerase	68.041	48.03	73.228	87.375
637009795	slr1085	hypothetical protein	85.66	68.897	81.934	43.225
637009803	sll1020	hypothetical protein	29.106	54.158	37.398	6.21

637009823	sll0648	lipophilic protein	410.415	298.045	290.691	329.713
637009864	sll1508	UDP-3-O-[3-hydroxymyristoyl] N-acetylglucosamine	54.142	51.889	35.417	12.493
637009901	sll1004	hypothetical protein	51.59	54.689	32.479	67.508
637009911	sll1647	hypothetical protein	46.322	38.533	29.289	76.186
637009945	sll1946	hypothetical protein	35.897	35.96	23.189	15.464
637009989	slr1910	N-acetylmuramoyl-L-alanine amidase	58.085	45.22	37.314	24.168
637009995	sll1835	hypothetical protein	273.295	405.527	230.882	18.175
637010001	sll1833	penicillin-binding protein	144.798	106.728	86.589	61.016
637010034	sll0985	hypothetical protein	11.367	13.366	12.794	7.435
637010084	sll1581	GumB protein	155.968	128.942	90.729	15.015
637010101	slr1708	lysostaphin	432.922	224.817	246.667	95.725
637010136	slr2027	hypothetical protein	18.219	15.243	11.979	13.57
637010152	slr1140	3-amino-5-hydroxybenzoic acid synthase	94.244	119.116	57.839	74.386
637010261	sll1971	hypothetical protein	15.547	14.515	13.753	5.654
637010294	sll1735	secreted protein MPB70	203.335	280.438	152.862	265.457
637010303	sll1724	LPS glycosyltransferase; IcsA	11.75	8.142	5.201	86.109
637010304	sll1723	hypothetical protein	13.826	4.756	5.469	89.117
637010324	slr1537	hypothetical protein	74.611	60.911	43.991	18.601
637010337	sll1466	hypothetical protein	35.396	41.105	26.995	23.723
637010347	sll1457	RfbJ protein	52.396	70.628	37.062	12.922
637010358	ssl3177	rare lipoprotein A	605.122	1284.296	509.027	1541.2
637010360	sll1632	hypothetical protein	143.739	103.76	94.764	125.337
637010361	slr1751	carboxyl-terminal protease	386.918	232.519	188.918	1071.063
637010363	sll1144	S-adenosyl-methyltransferase	29.93	21.969	17.851	40.911
637010375	slr1227	chloroplast import-associated channel IAP75	371.603	288.816	174.219	111.459
637010458	slr0875	large-conductance mechanosensitive channel	398.336	442.338	368.713	92.366
637010464	slr0878	hypothetical protein	37.695	29.271	19.721	226.93
637010486	slr0891	N-acetylmuramoyl-L-alanine amidase	41.577	31.786	24.888	14.785
637010489	sll0862	hypothetical protein	73.823	73.891	43.494	103.292

637010542	slr1874	D-alanylalanine synthetase	103.84	98.566	54.663	8.314
637010578	sll2010	UDP-N-acetylmuramoyl-L-alanyl-D-glutamate synthe	62.422	66.501	37.126	20.108
637010589	sll2003	hypothetical protein	75.29	62.02	47.753	32.436
637010624	slr1820	hypothetical protein	27.979	44.741	20.566	5.389
637010626	slr1821	hypothetical protein	183.422	133.511	152.165	173.188
637010650	slr1744	N-acetylmuramoyl-L-alanine amidase	455.816	401.751	256.196	79.934
637010651	slr1746	glutamate racemase	948.569	979.048	553.414	85.42
637010757	slr2002	hypothetical protein	178.142	118.24	118.992	224.632
637010818	sll0244	UDP-glucose 4-epimerase	47.279	34.019	31.802	25.069
637010883	slr1508	hypothetical protein	218.691	170.714	138.676	45.278
637010893	slr1515	hypothetical protein	182.208	135.25	117.416	191.984
637010917	slr2111	hypothetical protein	13.767	17.802	10.917	9.662
637010920	slr2114	spore coat polysaccharide biosynthesis protein; SpsC	1.323	6.341	3.324	3.383
637010922	slr2116	spore coat polysaccharide biosynthesis protein; SpsA	2.066	7.108	2.595	1.286
637010924	slr2118	hypothetical protein	1.899	4.399	1.192	0.241
637010928	slr2122	hypothetical protein	11.651	15.557	17.332	2.927
637010935	sll1995	hypothetical protein	70.536	55.893	38.834	38.577
637010954	sll1231	Mannosyltransferase B	5.438	5.766	4.133	2.036
637010975	slr0804	D-alanyl-D-alanine carboxypeptidase	483.007	443.883	322.853	105.008
637010991	slr0813	ceramide glucosyltransferase	19.374	24.594	9.214	13.179
637011002	slr0819	apolipoprotein N-acyltransferase	15.851	11.738	11.195	7.144
637011004	slr0820	glucosyltransferase	14.579	11.627	9.603	3.4
637011043	slr1351	UDP-N-acetylmuramoylalanyl-D-glutamyl-2, 6-diami	79.257	117.766	53.706	66.659
637011123	slr1474	hypothetical protein	17.384	43.442	13.709	24.879
637011129	sll1377	hypothetical protein	164.33	137.299	132.439	176.626
637011136	sll1370	GDP-mannose pyrophosphorylase	91.462	84.001	50.193	35.677
637011137	sll1369	hypothetical protein	83.405	55.995	47.275	158.097
637011147	slr1271	UDP-N-acetyl-D-mannosaminuronic acid transferase	114.019	128.682	64.743	48.828
637011185	sll1434	penicillin-binding protein 1B	160.733	130.874	121.663	228.178

637011207	slr1163	hypothetical protein	38.435	40.853	30.452	16.537
637011211	slr1166	hypothetical protein	47.405	78.679	27.635	16.485
637011234	slr1677	hypothetical protein	83.133	102.195	54.124	99.289
637011237	slr1679	hypothetical protein	36.93	76.444	29.85	28.727
637011272	slr0938	hypothetical protein	58.983	70.931	33.983	40.6
637011316	sll1535	galactosyl-1-phosphate transferase	1622.461	1270.361	1000.316	496.79
637011317	sll1534	hypothetical protein	90.015	58.185	60.115	27.66
637011329	sll1528	hypothetical protein	62.121	86.951	43.217	9.392
637011330	sll1527	hypothetical protein	13.515	25.77	11.681	2.351
637011471	slr1933	dTDP-4-dehydrorhamnose 3,5-epimerase	31.905	45.189	18.066	29.477
637011491	slr1943	dolichol phosphate mannose synthase	49.655	40.751	38.967	41.845
637011503	slr0993	lipoprotein; NlpD	1036.418	664.578	1053.586	67.378
637011575	sll0350	hypothetical protein	84.296	58.355	41.523	36.837
637011595	slr0384	hypothetical protein	63.105	100.025	52.063	27.43
637011611	slr0776	UDP-3-O-[3-hydroxymyristoyl] glucosamine N-acyltr	193.127	175.208	145.41	117.56
637011643	slr0344	mannosyl transferase	6.28	12.818	5.383	0.966
637011682	sll0016	membrane-bound lytic transglycosylase A	65.887	59.698	54.372	14.71
637011685	slr0008	carboxyl-terminal processing protease	243.142	168.635	135.851	243.267
637011692	slr0015	lipid-A-disaccharide synthase	95.933	84.027	71.417	30.276
637011695	slr0017	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	800.334	588.185	394.313	454.752
637011706	sll0002	penicillin-binding protein 1A	98.072	69.494	57.919	111.14
637011716	sll0207	glucose-1-phosphate thymidylyltransferase	30.219	24.558	25.082	5.166
637011767	sll0071	hypothetical protein	10.626	12.38	6.778	2.438
637011777	slr0054	diacylglycerol kinase	247.829	121.94	192.339	114.5
637011859	slr0639	hypothetical protein	36.619	71.03	36.42	68.023
637011864	slr0643	hypothetical protein	62.108	55.003	47.793	189.957
637011870	slr0646	penicillin-binding protein 4	68.407	36.329	28.188	11.703
637011891	sll0380	mannosyl transferase	24.711	27.129	18.066	2.781
637011892	sll0379	UDP-N-acetylglucosamine acyltransferase	85.862	117.643	64.345	8.768

637011898	slr0423	rare lipoprotein A	187.723	197.157	164.502	60.687
637012014	slr0827	alanine racemase	766.833	383.408	267.055	261.296
637012022	slr0836	dTDP-glucose 4,6-dehydratase	33.043	37.722	19.278	12.611
637012043	slr0072	glucose-inhibited division protein B	75.17	65.172	33.495	94.288
637012069	slr0092	hypothetical protein	3.55	6.432	3.482	1.972
637012120	sll0590	hypothetical protein	5.066	8.712	4.325	2.342
637012130	slr0624	hypothetical protein	84.939	73.722	55.739	46.648
637012133	slr0626	hypothetical protein	49.351	63.023	26.029	7.908
637012149	slr0109	hypothetical protein	8.972	13.755	5.633	10.369
637012229	sll0777	hypothetical protein	13.094	14.799	18.79	3.659
637012272	sll0657	phospho-N-acetylmuramoyl-pentapeptide- transfera	125.117	197.586	109.182	40.183
637012273	slr0765	hypothetical protein	88.918	93.486	79.664	83.168
637012282	sll0737	hypothetical protein	22.976	20.264	15.717	7.438
637012301	sll0034	hypothetical protein	76.469	47.676	45.787	56.783
637012319	slr0528	UDP-N-acetylmuramoylalanyl-D-glutamate--2, 6-diai	269.916	181.552	115.265	69.293
637012326	slr0534	soluble lytic transglycosylase	85.862	85.445	50.217	40.447
637012338	sll0501	hypothetical protein	22.251	23.366	21.066	7.498
637012362	sll0899	UDP-N-acetylglucosamine pyrophosphorylase	160.576	163.289	85.869	60.131
637012399	slr1423	UDP-N-acetylmuramate--L-alanine ligase	477.387	350.986	255.955	145.827
637012400	slr1424	hypothetical protein	132.123	100.393	57.068	29.925
637012477	slr1566	hypothetical protein	61.867	44.749	42.198	35.853
637012482	sll1488	hypothetical protein	422.863	219.574	190.04	102.694
637012495	sll1483	transforming growth factor induced protein	42.377	29.993	21.84	923.025
637012547	slr1656	UDP-N-acetylglucosamine-N-acetylmuramyl-(pentap	67.089	48.997	43.278	14.911
637012558	slr1666	pleiotropic regulatory protein	202.569	166.653	92.54	140.142
637012643	slr0604	GTP-binding protein LepA	336.813	193.262	210.618	404.835
637012645	slr0606	hypothetical protein	471.25	332.315	251.439	87.055
637471850	sll5048	hypothetical protein	76.322	48.507	42.767	30.561
637471852	sll5050	hypothetical protein	31.34	27.173	17.155	13.931

637471854	sll5052	hypothetical protein	9.27	8.085	5.432	5.013
637471857	slr5055	hypothetical protein	8.239	5.221	8.031	2.891
637471858	slr5056	hypothetical protein	15.281	14.341	14.311	6.681
637471859	sll5057	hypothetical protein	5.04	5.307	3.729	12.802
637472076	slr8036	hypothetical protein	156.738	90.299	139.117	174.288
637472131	slr6042	hypothetical protein	206.11	5.821	5.265	5.219
637011747	sll0409	O-succinylbenzoate synthase	8.916	10.603	7.277	6.658
637012286	sll0045	sucrose phosphate synthase	15.878	12.367	13.806	14.963
637011305	sll1540	dolichyl-phosphate-mannose synthase	22.545	19.495	11.856	18.351
637010105	slr1710	penicillin-binding protein 1B	82.733	55.618	43.938	18.795
637012089	slr0510	hypothetical protein	6.335	8.227	3.906	1.408
637012488	slr1575	hypothetical protein	22.181	18.869	16.471	8.693
637010445	slr1366	signal peptidase II	101.762	61.638	46.805	163.032
637011146	slr1270	hypothetical protein	356.481	289.978	195.704	78.602
637009787	ssr1766	hypothetical protein	71.366	79.635	102.674	58.819
637010868	slr2105	hypothetical protein	62.043	43.608	40.398	30.482
637009492	slr1120	type 4 prepilin peptidase	165.364	83.654	82.653	137.211
637010657	sll0858	hypothetical protein	41.63	40.487	33.214	10.795
637010754	slr1999	hypothetical protein	37.604	49.891	33.313	106.235
637009884	slr1043	hypothetical protein	263.066	201.832	149.861	125.327
637009885	slr1044	methyl-accepting chemotaxis protein	370.292	223.535	175.508	140.792
637010059	sll1294	methyl-accepting chemotaxis-like protein	247.445	199.637	241.193	77.187
637010060	sll1293	hypothetical protein	402.89	391.265	311.215	104.713
637011513	slr0322	CheA like protein	187.914	117.541	103.48	144.912
637012044	slr0073	sensory transduction histidine kinase	479.667	275.492	227.102	340.761
637012288	sll0044	hypothetical protein	31.094	30.906	26.397	20.418
637012290	sll0042	methyl-accepting chemotaxis protein II	129.142	113.369	108.465	97.433
637012291	sll0041	tsr or; CheD	204.948	163.372	195.225	152.463
637012292	sll0040	hypothetical protein	609.948	452.965	505.067	911.269

637010789	sll1595	circadian clock protein KaiC	11.267	19.625	10.737	18.781
637012534	slr0758	circadian clock protein KaiC	67.589	96.338	49.965	18.594
637010122	slr2015	hypothetical protein	104.567	96.417	114.505	10.685
637010123	slr2016	hypothetical protein	38.161	55.017	53.113	0.96
637010615	sll1695	general secretion pathway protein G	155.321	172.714	130.084	81.243
637010616	sll1694	general secretion pathway protein G	4722.232	3031.975	3542.988	740.144
637011081	sll1882	hypothetical protein	117.397	66.484	53.447	24.612
637011150	slr1274	membrane protein	417.799	390.655	250.478	61.951
637011151	slr1275	hypothetical protein	375.985	336.349	222.803	47.675
637011318	sll1533	twitching mobility protein	255.918	142.606	169.125	46.618
637011445	slr0161	twitching motility protein	307.246	237.946	245.239	106.591
637011446	slr0162	general secretion pathway protein F	269.654	268.061	272.767	118.025
637011447	slr0163	pilin biogenesis protein	260.361	235.558	242.658	85.779
637011463	slr1929	hypothetical protein	73.418	102.269	69.724	35.954
637011464	slr1930	hypothetical protein	49.589	84.083	133.559	35.921
637011699	slr0019	hypothetical protein	15.256	13.954	11.388	7.807
637011792	slr0063	general secretion pathway protein E	189.5	123.67	119.288	123.101
637012055	slr0079	general secretion pathway protein E	86.917	60.091	49.357	55.765
637012422	slr1456	general secretion pathway protein G	11.058	16.461	14.293	46.841
637012563	slr1668	hypothetical protein	102.668	101.4	67.14	34.047
637009447	sll1203	hypothetical protein	1.067	3.931	1.116	0.158
637009472	slr1498	hydrogenase isoenzyme formation protein; HypD	39.382	19.952	21.466	46.682
637009474	sll1394	methionine sulfoxide reductase A	122.183	121.34	96.044	243.033
637009485	sll1063	hypothetical protein	49.956	28.128	29.729	43.718
637009495	sll1057	thioredoxin M	86.538	74.195	97.055	202.353
637009507	slr1128	erthyrocyte band 7 integral membrane protein, prot	244.964	216.462	253.337	107.625
637009548	slr0236	hypothetical protein	251.553	293.134	130.852	825.401
637009554	slr0241	hypothetical protein	207.449	158.294	142.979	79.401
637009555	slr0242	bacterioferritin comigratory protein	46.931	40.881	35.49	10.115

637009562	sll0227	peptidyl-prolyl cis-trans isomerase B	194.667	275.47	179.68	302.86
637009577	sll0221	bacterioferritin comigratory protein	89.111	64.922	59.634	26.682
637009621	slr1106	prohibitin	99.11	84.085	74.919	44.056
637009646	sll1680	methionine sulfoxide reductase B	169.46	233.127	158.565	184.867
637009647	sll1679	protease; HhoA	206.068	168.695	139.923	224.683
637009668	slr1795	methionine sulfoxide reductase A	309.901	293.052	170.32	301.072
637009671	sll1666	DnaJ protein	45.139	22.502	33.266	30.824
637009853	sll1514	16.6 kDa small heat shock protein, molecular chaper	44.391	104.666	121.009	7622.224
637009854	sll1513	c-type cytochrome synthesis protein	235.8	155.92	164.018	472.885
637009867	slr1604	cell division protein; FtsH	662.403	625.239	413.409	1130.685
637009892	slr1050	hypothetical protein	102.986	116.513	80.142	151.921
637009915	slr1761	FKBP-type peptidyl-prolyl cis-trans isomerase	247.101	156.095	214.37	86.158
637009925	sll1639	urease accessory protein D	296.614	253.034	222.744	65.819
637009927	slr1768	hypothetical protein	60.113	44.214	56.248	6.297
637009935	slr1846	hypothetical protein	337.087	589.381	241.569	411.821
637009980	sll1933	DnaJ protein	45.719	41.004	23.102	27.427
637009981	sll1932	molecular chaperone DnaK	142.632	132.261	77.292	104.938
637010064	sll1289	hypothetical protein	61.644	73.565	40.912	27.402
637010065	slr1390	cell division protein; FtsH	182.897	125.688	124.535	549.155
637010151	slr1139	thioredoxin	234.169	254.684	174.126	150.353
637010218	slr1899	urease accessory protein F	91.376	84.512	55.058	59.059
637010240	slr1198	rehydrin	999.562	1265.352	1024.683	326.936
637010246	slr1204	serine protease; HtrA	110.692	58.118	87.182	919.479
637010271	slr2075	co-chaperonin GroES	702.944	3886.103	1345.415	873.193
637010272	slr2076	chaperonin GroEL	869.813	5202.031	1979.063	1705.334
637010340	sll1463	cell division protein; FtsH	192.928	140.415	136.374	297.161
637010341	sll1462	hydrogenase expression/formation protein; HypE	33.749	28.859	20.98	45.3
637010365	slr1219	urease accessory protein E	37.627	30.488	23.12	2.847
637010395	ssr2061	glutaredoxin 3	135.064	161.498	119.517	171.535

637010434	sll1280	hypothetical protein	103.561	87.899	59.578	39.506
637010476	sll0869	leucyl/phenylalanyl-tRNA--protein transferase	10.93	10.884	6.14	6.904
637010555	sll1761	hypothetical protein	15.078	14.956	8.94	5.958
637010577	sll2011	hypothetical protein	23.554	35.126	15.991	56.489
637010581	slr2135	hydrogenase accessory protein	81.331	49.414	52.586	21.416
637010613	slr1816	hypothetical protein	27.425	30.361	24.124	14.813
637010641	sll1621	membrane protein	1672.649	2352.223	2003.146	26608.62
637010694	sll1159	hypothetical protein	6.796	14.513	12.963	4.88
637010707	slr1251	peptidyl-prolyl cis-trans isomerase	280.881	586.595	199.737	255.035
637010748	slr1992	glutathione peroxidase	141.072	204.698	139.571	214.061
637010759	sll1902	hypothetical protein	12.307	10.126	9.074	4.58
637010841	sll1988	Hsp33-like chaperonin	260.703	161.062	124.649	253.772
637010843	slr2087	hypothetical protein	82.308	94.433	64.278	62.752
637010874	sll1427	protease; HhoB	240.496	118.987	113.151	554.406
637010979	slr0807	putative glycoprotease	28.211	28.45	14.416	26.684
637010987	sll0815	hypothetical protein	37.585	56.892	36.343	34.566
637011052	ssl3580	hydrogenase expression/formation protein; HypC	160.573	127.488	90.54	44.941
637011053	sll1899	protoheme IX farnesyltransferase	306.972	172.227	137.849	61.805
637011054	sll1898	hypothetical protein	663.173	241.409	218.098	132.035
637011119	sll1384	hypothetical protein	85.771	81.079	56.585	60.905
637011142	sll1178	nodulation protein	73.782	77.169	49.354	6.278
637011219	slr1171	glutathione peroxidase	114.482	145.106	89.629	27.24
637011291	sll0909	hypothetical protein	21.497	24.197	17.105	19.111
637011326	slr1639	SsrA-binding protein	49.486	103.075	43.587	191.079
637011332	slr1641	ClpB protein	40.39	80.775	38.282	146.312
637011348	sll0428	hypothetical protein	1.305	3.045	1.229	1.595
637011368	slr0448	sms protein	30.77	34.91	19.317	15.488
637011441	slr0156	ClpB protein	56.541	78.188	26.702	12.736
637011485	slr1939	hypothetical protein	56.045	51.218	46.931	48.762

637011495	slr1946	hypothetical protein	49.376	70.427	44.166	72.643
637011550	sll0170	molecular chaperone DnaK	1137.995	2203.24	1238.916	5709.438
637011551	sll0169	hypothetical protein	201.425	114.793	133.692	768.526
637011586	slr0374	cell division cycle protein	4943.955	955	5539.363	2447.523
637011628	sll0755	thiol-specific antioxidant protein	101.952	97.957	74.375	36.458
637011646	sll0322	transcriptional regulatory protein; HypF	6.112	6.629	5.568	1.458
637011678	sll0020	ATP-dependent Clp protease regulatory subunit	849.984	718.935	744.163	2429.346
637011728	slr0228	cell division protein; FtsH	420.194	370.722	367.142	1767.409
637011736	slr0233	thioredoxin M	153.363	62.624	85.433	42.247
637011737	sll0191	hypothetical protein	10.168	18.042	10.875	2.511
637011738	sll0416	60kD chaperonin 2	552.124	2275.706	825.552	1675.922
637011748	sll0408	hypothetical protein	369.014	394.766	311.385	235.502
637011770	sll0069	hypothetical protein	67.709	40.057	33.559	19.603
637011772	sll0067	glutathione S-transferase	97.155	74.957	70.318	77.021
637011790	sll0058	molecular chaperone DnaK	100.771	96.195	59.271	60.435
637011791	sll0057	heat shock protein; GrpE	505.097	502.025	329.03	404.667
637011814	slr0480	hypothetical protein	33.2	38.423	20.699	12.62
637011835	sll0686	hypothetical protein	14.103	15.694	14.843	14.013
637011932	slr0208	hypothetical protein	141.342	215.502	86.523	37.188
637011957	slr0904	hypothetical protein	155.113	135.73	77.016	149.074
637012030	slr0841	hypothetical protein	69.787	63.673	49.227	173.405
637012046	slr0074	ABC transporter subunit	173.985	295.605	132.612	1252.115
637012047	slr0075	ABC transporter subunit	56.573	186.607	59.287	487.304
637012048	slr0076	hypothetical protein	121.039	232.147	77.808	803.01
637012064	slr0086	hypothetical protein	37.444	31.564	22.494	4.304
637012070	slr0093	DnaJ protein	61.195	61.999	34.101	247.414
637012127	slr0623	thioredoxin	828.938	474.266	788.262	231.355
637012187	slr0313	hypothetical protein	8.001	13.61	13.524	22.708
637012327	slr0535	serine proteinase	126.229	83.055	99.79	89.097

637012365	ssl1707	hypothetical protein	106.401	113.173	62.994	43.106
637012366	sll0897	DnaJ protein	210.793	195.183	117.22	123.856
637012372	sll0535	ATP-dependent protease ATP-binding subunit	92.664	94.6	52.454	52.03
637012374	sll0533	trigger factor	224.599	424.777	127.375	109.324
637012419	slr1453	sulfate transport system permease protein	15.158	12.741	11.895	7.447
637012431	ssl2667	NifU protein	316.685	962.189	396.229	421.649
637012457	sll0621	thiol:disulfide interchange protein; DsbD	76.322	65.293	47.77	35.152
637012473	slr1562	glutaredoxin	155.072	120.949	80.693	208.644
637012538	sll0720	apxIC gene product hemolysin activation protein	1.547	0.57	2.185	2.751
637012555	sll1545	glutathione S-transferase	123.321	103.101	59.981	98.41
637012593	sll0430	heat shock protein 90	40.651	219.602	90.085	67.646
637012597	slr1179	hypothetical protein	85.938	91.994	46.326	97.458
637012602	slr1182	hypothetical protein	19.415	25.002	15.551	12.201
637012638	slr0600	hypothetical protein	80.873	84.125	47.585	112.515
637012644	slr0605	hypothetical protein	56.168	39.906	28.524	105.117
637010600	sll1703	protease IV	20.798	28.818	11.881	11.91
637011269	slr0935	hypothetical protein	77.07	34.746	48.384	133.042
637011448	slr0164	ATP-dependent Clp protease proteolytic subunit	272.529	241.078	230.245	219.767
637011449	slr0165	ATP-dependent Clp protease proteolytic subunit	434.244	429.538	326.079	365.496
637011705	slr0021	protease IV	54.359	66.677	29.731	19.404
637012340	slr0542	ATP-dependent protease; ClpP	218.61	180.64	124.241	195.116
637012373	sll0534	ATP-dependent Clp protease proteolytic subunit	282.928	254.513	145.327	189.207
637009440	slr1316	iron(III) dicitrate transport system permease protein	14.31	17.989	10.864	26.776
637009441	slr1317	iron(III) dicitrate transport system permease protein	28.13	17.921	15.914	19.192
637009443	slr1319	iron(III) dicitrate transport system permease protein	28.621	28.217	15.694	13.688
637009444	sll1206	ferric aerobactin receptor	9.675	12.149	6.242	5.196
637009448	sll1202	hypothetical protein	1.316	2.344	0.929	0.292
637009449	sll1409	ferrichrome-iron receptor	1.325	2.181	0.915	0.294
637009452	sll1406	ferrichrome-iron receptor	7.733	19.408	6.112	26.764

637009459	slr1490	ferrichrome-iron receptor	4.826	8.86	4.04	8.164
637009460	slr1491	iron(III) dicitrate-binding periplasmic protein	5.534	6.628	3.908	4.612
637009461	slr1492	iron(III) dicitrate-binding periplasmic protein	8.072	9.286	6.68	4.567
637009543	slr0741	a negative regulator of pho regulon	33.582	21.627	22.52	24.879
637009637	slr1776	high affinity sulfate transporter	25.239	28.574	23.45	17.681
637009667	slr1794	hypothetical protein	274.379	260.976	149.486	293.136
637009696	slr1295	iron transport protein	210.255	667.899	118.658	606.717
637009718	sll1184	heme oxygenase	2741.404	2048.776	2523.718	687.525
637009724	slr0963	ferredoxin-sulfite reductase	162.003	158.241	93.061	408.23
637009725	slr0964	hypothetical protein	118.187	112.966	68.964	428.354
637009801	sll1022	hypothetical protein	210.12	230.231	177.018	605.848
637009808	sll1017	ammonium/methylammonium permease	139.55	109.019	135.551	115.217
637009813	slr0676	adenylylsulfate kinase	226.392	497.609	184.323	38.309
637009818	slr0681	hypothetical protein	97.073	111.474	113.935	50.42
637009832	sll0640	sulfur deprivation response regulator	43.141	44.784	38.926	9.547
637009848	slr1595	Na/H antiporter	22.284	17.725	21.771	8.667
637009967	sll1937	ferric uptake regulation protein	72.478	53.22	56.36	120.815
637009968	slr2043	periplasmic binding protein component of an ABC ty	6.754	10.04	18.657	35.877
637009969	slr2044	ABC transporter	17.765	16.586	15.366	45.624
637009970	slr2045	hypothetical protein	21.922	32.816	34.279	82.649
637010014	ssr1698	hypothetical protein	66.093	42.337	38.159	6.296
637010017	sll0993	potassium channel	26.587	22.518	21.404	10.706
637010067	ssr2333	hypothetical protein	81.569	76.297	37.284	224.546
637010068	slr1392	ferrous iron transport protein B	118.578	90.649	48.382	230.778
637010111	slr2006	hypothetical protein	13.937	111.777	11.25	240.283
637010113	slr2008	hypothetical protein	57.73	112.752	59.893	173.109
637010118	slr2011	hypothetical protein	91.014	154.281	97.027	104.831
637010119	slr2012	hypothetical protein	101.232	141.29	83.019	100.835
637010128	sll1920	cation-transporting ATPase; E1-E2 ATPase	98.983	77.37	77.797	139.637

637010153	sll1082	nitrate transport protein; NrtD	7.289	11.061	7.133	18.488
637010154	sll1081	integral membrane components of other binding-pr	11	18.418	14.067	32.417
637010155	sll1080	hypothetical protein	49.296	56.256	41.433	104.805
637010161	sll1076	Zinc exporter	20.708	19.86	15.253	9.31
637010176	slr1890	bacterioferritin	225.731	269.041	218.864	59.801
637010211	slr1894	hypothetical protein	424.387	670.767	391.404	6695.265
637010234	slr1194	hypothetical protein	208.943	159.181	131.174	196.252
637010260	slr1216	Mg2+ transporter	64.15	58.559	38.027	7.567
637010352	sll1453	nitrate transport protein; NrtD	227.934	366.084	239.573	387.09
637010353	sll1452	nitrate transport protein; NrtC	290.216	552.285	361.555	983.721
637010354	sll1451	nitrate transport protein; NrtB	344.277	619.728	458.314	815.141
637010355	sll1450	nitrate transport 45kD protein	514.531	719.178	471.589	1244.439
637010377	slr1229	hypothetical protein	14.454	30.157	11.379	120.848
637010387	ssl2250	glycoprotein 64	168.813	136.348	67.608	253.581
637010638	sll1623	ABC transporter	24.532	14.692	10.588	13.404
637010642	slr1738	hypothetical protein	123.478	86.192	62.375	1872.703
637010660	sll0855	chloride channel protein	55.975	44.121	35.936	18.689
637010703	slr1247	periplasmic phosphate binding protein	3284.687	110.153	1951.624	137.278
637010704	slr1248	phosphate transport system permease protein; PstC	1259.655	39.755	800.749	104.716
637010705	slr1249	phosphate transport system permease protein; PstA	680.994	27.644	402.581	75.546
637010706	slr1250	phosphate transport ATP-binding protein; PstB	188.98	23.164	138.988	10.103
637010722	slr1261	hypothetical protein	179.356	41.254	71.073	261.229
637010764	sll1614	cation-transporting ATPase; E1-E2 ATPase	18.449	22.726	20.308	68.02
637010784	sll1600	Mn transporter; MntB	5.594	4.031	24.933	7.957
637010785	sll1599	Mn transporter; MntA	4.825	4.203	33.595	25.737
637010786	sll1598	Mn transporter; MntC	6.917	7.903	58.084	33.977
637010792	slr1727	eukaryotic Na+/H+ exchanger	206.849	200.837	153.953	126.74
637010795	slr1728	potassium-transporting ATPase subunit A	35.021	27.121	73.158	7.556
637010796	slr1729	potassium-transporting ATPase subunit B	63.123	44.329	94.39	17.528

637010798	slr1730	potassium-transporting ATPase C chain	25.774	22.532	52.493	5.062
637010830	sll0238	hypothetical protein	12.411	14.143	8.598	9.417
637010831	sll0237	hypothetical protein	20.633	22.322	12.327	9.616
637010842	sll1987	catalase hpi	239.579	178.453	183.964	77.715
637010884	slr1509	Na+ -ATPase subunit J	52.996	51.957	39.57	12.122
637010895	slr1516	superoxide dismutase	979.398	1005.006	1273.93	15491.533
637011009	slr0822	cation-transporting ATPase; E1-E2 ATPase	41.761	25.356	24.033	139.437
637011015	sll1263	hypothetical protein	295.225	222.49	161.307	74.288
637011020	slr1336	H+/Ca2+ exchanger	279.3	199.006	162.82	80.494
637011038	slr1347	carbonic anhydrase	80.358	68.607	50.449	76.007
637011087	slr1978	hypothetical protein	36.462	37.953	35.936	37.295
637011091	sll1875	heme oxygenase	13.683	13.896	9.736	7.096
637011098	sll1870	ABC transporter	13.113	20.941	9.024	4.259
637011210	slr1165	sulfate adenylyltransferase	184.46	232.72	106.154	47.244
637011280	slr0944	hypothetical protein	8.05	6.739	11.23	48.768
637011335	slr1643	ferredoxin-NADP oxidoreductase	704.869	1097.255	657.437	591.735
637011370	sll0273	Na+/H+ exchanger	136.49	99.929	68.75	33.393
637011383	sll0261	potassium channel	18.309	11.073	10.863	14.578
637011498	slr1950	cation-transporting ATPase; E1-E2 ATPase	50.278	62.846	35.568	150.646
637011520	slr0327	iron utilization protein	56.626	57.113	42.44	72.229
637011606	slr0773	hypothetical protein	232.495	191.938	146.752	33.851
637011660	slr0354	ABC transporter	30.384	19.063	34.914	14.471
637011769	slr0051	carbonic anhydrase	142.236	89.284	80.175	68.43
637011832	sll0689	Na/H+ antiporter	228.717	440.364	161.323	73.359
637011837	sll0684	phosphate transport ATP-binding protein; PstB	617.005	389.154	427.194	132.844
637011838	sll0683	phosphate transport ATP-binding protein; PstB	491.003	319.719	370.806	175.66
637011839	sll0682	phosphate transport system permease protein; PstA	1015.237	480.907	696.384	511.184
637011840	sll0681	phosphate transport system permease protein; PstC	2131.966	1241.161	1558.355	1438.645
637011841	sll0680	phosphate-binding periplasmic protein precursor	6365.106	3698.584	4337.114	3672.069

637011842	sll0679	SphX protein precursor	353.978	117.102	256.883	73.841
637011879	slr0415	Na(+)/H(+) antiporter	76.158	76.577	54.392	103.597
637011883	sll0385	ABC transporter	42.981	76.29	61.911	30.176
637011884	sll0384	hypothetical protein	65.672	142.601	138.59	61.343
637011885	sll0383	CbiM protein	151.756	243.076	296.346	102.487
637011912	slr0192	hypothetical protein	150.32	113.245	79.684	46.021
637011949	slr0898	ferredoxin--nitrite reductase	407.858	372.819	268.412	723.064
637011950	slr0899	cyanate hydratase	139.669	273.777	119.547	233.409
637011980	sll0556	hypothetical protein	97.636	93.641	71.929	850.292
637012005	slr0580	hypothetical protein	67.424	47.533	33.344	50.155
637012008	sll0540	hypothetical protein	86.234	54.52	50.754	16.688
637012016	sll0834	bicarbonate transporter	106.378	253.648	89.681	87.907
637012050	sll0086	hypothetical protein	48.446	55.618	24.712	166.894
637012072	slr0096	low affinity sulfate transporter	42.134	11.413	20.71	20.1
637012095	slr0513	periplasmic iron-binding protein	456.61	658.044	181.026	1342.904
637012099	sll0473	hypothetical protein	22.831	12.421	17.098	8.409
637012119	slr0617	hypothetical protein	210.982	103.986	99.778	63.949
637012135	sll0108	ammonium/methylammonium permease	3235.256	2574.246	3018.408	1067.861
637012165	sll0290	polyphosphate kinase	157.512	53.13	91.294	69.597
637012204	slr0794	cation or drug efflux system protein	14.866	8.452	8.413	14.615
637012208	slr0797	cation-transporting ATPase; E1-E2 ATPase	99.527	197.463	4.192	56.666
637012211	slr0798	hypothetical protein	36.311	32.024	7.964	195.661
637012223	slr0801	hypothetical protein	7.413	5.733	5.343	3.783
637012248	sll0672	cation-transporting ATPase; E1-E2 ATPase	26.745	32.053	16.828	24.96
637012249	sll0671	magnesium and cobalt transport protein	0.901	3.47	2.358	0.134
637012280	sll0739	ABC transporter	7.248	4.886	4.259	2.726
637012281	sll0738	molybdate-binding periplasmic protein	9.294	4.048	2.519	0.563
637012307	slr0040	bicarbonate transporter	3.285	1.676	1.111	5.392
637012308	slr0041	hypothetical protein	2.037	2.102	0.639	0.543

637012310	slr0043	nitrate transport protein; NrtC	14.91	11.201	11.512	9.218
637012311	slr0044	nitrate transport protein; NrtD	15.777	11.629	10.54	6.294
637012332	sll0507	magnesium and cobalt transport protein	48.685	49.369	34.639	10.493
637012352	sll0493	hypothetical protein	55.492	43.113	31.699	21.778
637012368	sll0895	ammonium transport protein	43.127	44.6	27.075	21.959
637012370	sll0537	ammonium/methylammonium permease	36.33	23.665	23.736	17.745
637012371	sll0536	hypothetical protein	62.532	29.073	54.86	40.625
637012402	sll1341	bacterioferritin	282.925	313.885	268.261	177.948
637012417	slr1452	sulfate binding protein; SbpA	5.189	6.853	7.635	9.947
637012420	slr1454	sulfate transport system permease protein	5.786	9.342	9.86	2.572
637012421	slr1455	sulfate transport system permease protein	19.938	25.204	18.574	26.731
637012423	slr1457	chromate transport protein	24.614	22.01	13.296	21.628
637012517	slr0749	light-independent protochlorophyllide reductase iro	217.59	104.397	156.414	11.417
637012523	slr0753	P protein	15.773	19.189	22.041	4.976
637012556	slr1664	hypothetical protein	16.038	12.66	10.604	1.744
637012567	sll0450	cytochrome b subunit of nitric oxide reductase	87.31	22.692	47.728	10.363
637012604	slr1184	hypothetical protein	4.857	11.933	5.009	2.159
637012631	sll0567	ferric uptake regulation protein	68.965	33.889	38.967	51.502
637471840	slr5038	chromate transporter	9.425	8.99	9.397	2261.281
637471906	sll5104	arsenate reductase	122.378	186.419	95.912	212.68
637472126	slr6037	arsenate reductase	125.85	193.503	98.888	212.938
637472132	slr6043	hypothetical protein	140.725	6.206	5.457	6.076
637010756	slr2001	hypothetical protein	308.513	270.42	169.639	310.945
637010056	sll1297	phenoxybenzoate dioxygenase	10.807	22.652	10.495	2.852
637010247	slr1205	ferredoxin component	325.408	184.621	194.925	458.307
637010652	slr1747	hypothetical protein	14.371	18.852	9.252	27.502
637011099	sll1869	3-chlorobenzoate-3,4-dioxygenase	81.225	76.448	55.309	29.282
637011380	sll0264	hypothetical protein	16.725	14.524	11.134	17.817
637011482	sll1849	hypothetical protein	8.64	10.349	8.306	11.762

637009600	sll1041	ABC transporter	31.581	30.068	17.624	21.837
637009694	slr1293	hypothetical protein	3.606	4.097	2.971	35.662
637009886	slr1045	hypothetical protein	115.783	72.877	65.338	100.428
637009906	sll1002	hypothetical protein	56.364	29.174	24.613	41.758
637009907	sll1001	ABC transporter	91.235	73.822	46.4	63.952
637010049	sll1298	dienelactone hydrolase	119.581	89.736	65.034	36.879
637010547	slr1877	5-oxo-1,2,5-tricarboxilic-3-penten acid decarboxilase	154.985	130.789	95.094	255.362
637011033	slr1344	hypothetical protein	54.823	37.438	34.924	19.173
637011058	slr1962	hypothetical protein	72.207	48.75	42.329	7.133
637011193	sll1103	hypothetical protein	198.419	198.85	105.632	45.868
637011194	sll1102	hypothetical protein	161.547	223.303	98.624	27.141
637011303	sll1541	lignostilbene-alpha,beta-dioxygenase	21.917	23.087	12.296	155.361
637011341	slr1648	hypothetical protein	75.449	48.069	43.033	43.694
637011632	sll0752	hypothetical protein	91.427	60.748	46.168	21.204
637011633	sll0751	hypothetical protein	173.744	173.896	108.653	61.665
637011647	sll0321	hypothetical protein	44.967	32.074	29.743	60.373
637012000	slr0574	cytochrome P450	16.465	22.186	23.419	13.265
637012065	slr0088	b-carotene ketolase	23.613	27.454	13.302	3.468
637012302	sll0033	hypothetical protein	48.347	37.709	24.124	43.489
637012537	sll0721	leukotoxin; LtA	20.751	20.437	16.006	18.487
637011331	sll1526	hypothetical protein	88.515	149.405	77.826	9.636
637009477	slr1501	hypothetical protein	55.215	65.092	13.834	1744.401
637009568	slr0251	ABC transporter	117.197	110.399	70.452	686.695
637009573	sll0222	alkaline phosphatase	332.244	233.194	143.524	123.72
637009596	slr1416	MorR protein	58.513	59.649	37.533	22.94
637009598	sll1319	hypothetical protein	2.428	5.114	2.94	0.617
637009617	sll1037	hypothetical protein	27.923	22.296	13.366	16.239
637009618	sll1036	hypothetical protein	63.297	46.56	44.153	46.026
637009624	sll1032	hypothetical protein	269.176	259.194	116.866	63.506

637009630	slr1109	erythroid ankyrin	59.831	43.146	42.034	47.32
637009633	sll1686	hypothetical protein	19.9	22.606	11.832	18.316
637009649	slr1784	biliverdin reductase	30.273	46.253	25.45	31.399
637009651	sll1677	spore maturation protein B	130.762	103.092	74.509	13.306
637009674	sll1664	hypothetical protein	104.607	90.674	63.261	32.029
637009738	sll0932	hypothetical protein	53.177	54.841	50.608	46.372
637009747	sll0924	hypothetical protein	32.179	40.747	36.519	50.339
637009794	slr1084	hypothetical protein	89.561	72.711	100.474	39.811
637009804	slr1090	GTP-binding protein	91.524	56.713	57.459	81.367
637009806	sll1019	glyoxalase II	37.273	33.252	15.879	14.399
637009811	sll0656	extracellular nuclease	286.206	55.717	410.817	183.199
637009824	sll0647	hypothetical protein	47.664	36.555	41.529	23.167
637009836	sll0639	hypothetical protein	52.037	38.154	33.873	200.511
637009840	sll0634	BtpA	178.084	134.584	105.936	43.291
637009857	sll1511	hypothetical protein	12.782	8.466	6.803	0.247
637009869	ssl2923	virulence associated protein C	4.089	14.734	4.278	1.817
637009873	sll1504	hypothetical protein	11.115	21.028	8.373	6.917
637009900	sll1005	regulatory protein for beta-lactamase	18.656	20.835	11.446	18.471
637009917	slr1762	hypothetical protein	49.506	41.558	37.393	77.708
637009924	sll1640	hypothetical protein	39.82	33.718	28.124	12.169
637009928	sll1636	ferripyochelin binding protein	92.305	52.427	43.838	33.837
637009930	slr1771	hypothetical protein	40.795	18.629	68.251	20.697
637009949	slr2034	hypothetical protein	427.891	440.122	245.999	179.075
637009979	slr2053	hypothetical protein	104.808	86.463	49.855	19.71
637009984	sll1929	ComE	38.86	26.266	30.217	33.687
637009985	slr1906	hypothetical protein	29.942	20.339	39.622	37.057
637009998	slr1916	esterase	140.684	147.671	93.636	506.737
637009999	slr1917	hypothetical protein	114.86	55.884	55.505	427.095
637010005	slr1919	ABC1-like	24.431	40.877	19.394	51.068

637010009	slr1019	hypothetical protein	10.176	12.948	8.898	5.17
637010022	sll0992	esterase	80.179	49.858	56.304	78.813
637010047	sll1300	tRNA (guanine-N(7)-)-methyltransferase	37.37	34.103	20.482	19.248
637010078	sll1284	serine esterase	142.405	105.513	96.764	13.653
637010107	sll1927	ABC transporter	157.04	113.246	103.723	34.16
637010109	slr2005	hypothetical protein	204.058	124.213	76.81	100.806
637010120	slr2013	hypothetical protein	57.766	75.222	44.013	73.999
637010138	sll1912	hypothetical protein	18.317	27.903	18.974	26.462
637010157	sll1078	hypothetical protein	24.6	42.54	29.402	119.441
637010213	slr1895	hypothetical protein	80.562	81.397	64.951	1673.17
637010220	slr1901	ABC transporter	68.269	69.33	65.828	50.422
637010233	sll1119	hypothetical protein	27.83	11.811	24.818	50.467
637010264	sll1969	hypothetical protein	18.046	17.043	15.401	37.352
637010286	slr1827	hypothetical protein	17.779	26.103	8.303	35.661
637010305	sll1722	hypothetical protein	40.887	13.286	18.962	306.387
637010317	sll1715	hypothetical protein	13.042	18.693	15.239	25.766
637010335	slr1547	hypothetical protein	87.667	91.817	64.21	151.443
637010343	sll1459	acid phosphatase	46.097	28.875	18.922	23.418
637010370	slr1223	cell division inhibitor	106.401	76.441	53.904	85.613
637010373	sll1138	hypothetical protein	62.529	31.065	33.05	128.346
637010379	sll1135	hypothetical protein	35.883	30.479	23.063	7.443
637010385	slr1235	hypothetical protein	170.166	133.463	92.773	89.315
637010393	sll1129	2-hydroxy-6-oxohepta-2,4-dienoate hydrolase	38.161	27.37	28.797	52.945
637010401	slr1241	hypothetical protein	56.254	60.863	49.877	9.651
637010404	slr1435	PmbA protein	35.575	47.383	20.235	35.67
637010411	slr1440	hypothetical protein	7.155	6.446	6.988	9.895
637010429	sll1349	phosphoglycolate phosphatase	11.861	15.584	12.626	7.106
637010444	slr1365	BioY protein	277.279	180.121	144.568	268.216
637010461	slr0876	hypothetical protein	160.275	121.704	83.704	52.999

637010462	ssr1480	RNA-binding protein	2654.903	5127.293	3252.204	836.028
637010471	slr0882	hypothetical protein	87.818	103.396	72.418	93.919
637010478	sll0867	hypothetical protein	30.546	26.562	22.762	16.766
637010482	slr0889	ABC1-like	132.677	74.755	160.174	34.465
637010487	sll0864	hypothetical protein	2.174	6.943	2.047	10.629
637010490	sll0861	hypothetical protein	38.535	53.406	21.726	112.088
637010500	sll1308	short chain dehydrogenase	44.138	33.437	25.401	3.883
637010501	slr1406	hypothetical protein	243.432	164.13	149.075	13.701
637010503	slr1409	beta transducin-like protein	85.424	66.75	46.926	4.046
637010504	slr1410	beta transducin-like protein	77.233	68.43	47.629	5.165
637010505	sll1307	hypothetical protein	437.115	261.62	283.812	61.876
637010507	sll1305	hypothetical protein	167.856	144.725	135.367	7.736
637010514	slr1854	hypothetical protein	510.856	318.028	378.501	2.813
637010524	slr1864	hypothetical protein	14.751	14.182	11.677	3.706
637010533	sll1773	hypothetical protein	40.29	24.748	30.229	1397.801
637010537	sll1770	ABC1-like	55.092	79.487	32.011	145.458
637010543	slr1875	exopolysaccharide synthesis protein; ExoD	76.859	83.855	47.915	10.034
637010549	sll1766	putative arylsulfatase regulatory protein	65.992	94.676	67.369	16.708
637010574	sll2014	sugar fermentation stimulation protein	56.76	73.747	45.75	154.163
637010579	sll2009	processing protease	38.598	35.16	19.122	73.065
637010580	sll2008	processing protease	36.124	28.193	16.342	204.381
637010632	sll1628	hypothetical protein	92.181	79.561	49.377	32.119
637010648	slr1742	hypothetical protein	85.973	63.151	32.021	21.187
637010655	slr0853	ribosomal-protein-alanine acetyltransferase	20.88	30.604	17.629	76.493
637010671	slr0862	LmbP protein	44.463	57.546	26.045	13.85
637010672	slr0863	hypothetical protein	50.086	39.949	28.423	150.363
637010676	slr0864	ABC transporter	99.351	128.801	62.81	41.419
637010680	sll0837	hypothetical protein	338.79	220.255	162.869	207.522
637010683	slr0869	hypothetical protein	14.504	17.541	15.913	3.004

637010688	slr1243	hypothetical protein	3.87	11.278	5.635	3.393
637010711	sll1150	hypothetical protein	1069.257	799.029	1045.268	381.565
637010720	slr1259	hypothetical protein	364.084	60.722	96.086	906.168
637010723	slr1262	hypothetical protein	139.835	26.084	39.915	170.803
637010763	sll1615	tRNA modification GTPase	31.564	29.359	18.007	31.624
637010772	slr1717	hypothetical protein	124.271	116.066	94.449	49.564
637010809	slr0264	hypothetical protein	32.798	18.701	18.454	19.118
637010813	sll0249	hypothetical protein	2.271	4.688	3.85	72.294
637010816	slr0267	hypothetical protein	45.384	38.173	23.615	43.074
637010859	slr2097	cyanoglobin	94.334	95.409	105.508	173.022
637010872	sll1428	P3 protein	25.397	19.2	20.605	7.642
637010881	slr1506	hypothetical protein	212.427	166.6	109.192	16.173
637010882	slr1507	hypothetical protein	194.398	212.478	122.74	30.167
637010888	slr1512	hypothetical protein	76.322	317.206	79.538	57.267
637010900	slr1520	hypothetical protein	8.131	6.233	4.594	15.903
637010901	slr1521	GTP-binding protein; HflX	33.382	21.766	13.501	23.019
637010906	ssl2749	hypothetical protein	46.029	71.914	39.27	33.576
637010926	slr2120	hypothetical protein	6.226	3.229	5.211	1.076
637010927	slr2121	hypothetical protein	7.95	2.604	6.156	2.827
637010932	slr2126	hypothetical protein	5.546	9.83	3.855	2.289
637010943	slr1322	hypothetical protein	116.118	102.351	66.078	148.616
637010951	slr1327	hypothetical protein	5.527	12.609	13.631	9.827
637010959	slr1331	processing protease	106.687	192.9	94.175	46.631
637010962	sll1225	hypothetical protein	7.632	20.44	14.374	2.375
637010983	sll0818	hypothetical protein	40.887	26.822	18.481	37.985
637010986	sll0816	hypothetical protein	34.468	36.974	22.508	56.634
637010995	slr0816	hypothetical protein	74.959	62.116	41.284	39.075
637011011	sll0804	hypothetical protein	28.495	20.445	18.126	13.002
637011026	slr1340	hypothetical protein	16.629	35.67	23.087	4.549

637011028	sll1254	hemolysin	32.992	34.126	29.204	31.677
637011030	slr1343	hypothetical protein	15.415	28.74	11.314	2.116
637011034	sll1251	hypothetical protein	28.524	18.373	16.093	6.168
637011051	sll1900	acetyltransferase	32.164	27.592	21.904	25.929
637011072	slr1971	hypothetical protein	29.024	15.847	15.69	205.884
637011075	slr1972	hypothetical protein	127.839	96.025	105.512	124.395
637011078	slr1974	GTP-binding protein EngA	102.605	81.465	56.799	42.014
637011104	sll1390	hypothetical protein	237.666	221.534	184.423	294.747
637011118	slr1472	hypothetical protein	70.771	187.689	62.507	26.832
637011170	sll1166	hypothetical protein	32.043	39.899	27.538	2.766
637011225	slr1174	hypothetical protein	97.506	67.913	79.934	39.666
637011232	slr1675	hydrogenase expression/formation protein; HypA	62.262	115.225	76.916	314.26
637011274	sll0915	protease	59.095	63.863	42.233	28.498
637011277	slr0942	aldehyde reductase	99.125	108.138	98.605	46.855
637011281	slr0945	hypothetical protein	11.061	11.55	9.895	21.142
637011286	sll0912	ABC transporter	23.184	21.637	11.903	14.14
637011290	sll0910	hypothetical protein	5.661	12.287	5.331	6.99
637011294	slr0953	hypothetical protein	35.513	36.738	21.415	179.46
637011301	slr0959	hypothetical protein	52.921	101.95	36.817	620.842
637011336	sll1524	hypothetical protein	83	62.785	50.182	20.719
637011337	slr1644	hypothetical protein	230.539	171.28	166.219	144.447
637011340	slr1647	hypothetical protein	59.883	57.446	29.578	98.254
637011376	sll0268	hypothetical protein	282.839	122.025	124.455	94.668
637011387	sll0260	hemolysin	96.634	80.311	50.662	51.342
637011389	slr0287	hypothetical protein	888.923	954.69	695.466	335.694
637011390	slr0288	glutamate--ammonia ligase	139.274	164.615	203.422	73.771
637011395	sll0257	hypothetical protein	21.737	30.798	20.015	29.953
637011424	slr0143	beta transducin-like protein	32.078	21.403	18.963	30.952
637011425	slr0144	hypothetical protein	285.118	206.948	300.332	118.418

637011428	slr0147	hypothetical protein	314.534	196.414	335.32	120.709
637011461	slr1927	hypothetical protein	66.383	90.949	40.262	126.784
637011466	slr1932	hypothetical protein	114.482	129.606	128.564	325.073
637011492	slr1944	hypothetical protein	43.966	39.504	41.47	6.892
637011512	slr0321	GTP-binding protein Era	10.506	12.729	6.71	26.089
637011524	sll0297	hypothetical protein	216.699	205.075	183.713	373.876
637011537	slr0338	hypothetical protein	239.943	263.399	170.819	61.345
637011545	sll0175	putative; ORF1	17.564	19.445	10.694	15.238
637011555	sll0163	beta transducin-like protein	67.378	43.885	44.909	50.588
637011557	slr0179	hypothetical protein	8.954	13.121	19.474	18.195
637011565	sll0157	hypothetical protein	25.837	24.516	24.051	377.21
637011572	slr0360	hypothetical protein	92.697	75.672	59.536	45.097
637011574	slr0362	hypothetical protein	67.452	76.781	56.332	51.439
637011577	slr0363	hypothetical protein	38.161	29.644	17.968	15.466
637011589	slr0378	7-beta-(4-carbaxybutanamido)cephalosporanic acid	55.049	46.281	42.97	6.063
637011593	sll0330	3-ketoacyl-acyl carrier protein reductase	7.926	6.707	7.74	10.569
637011601	slr0388	hypothetical protein	12.211	14.126	14.055	7.011
637011615	sll0765	hypothetical protein	83.297	64.623	49.589	105.608
637011617	sll0764	high-affinity branched-chain amino acid transport A	58.466	61.595	50.925	78.374
637011636	sll0749	hypothetical protein	34.345	18.142	27.85	31.297
637011638	slr0784	hypothetical protein	181.292	216.939	176.729	60.589
637011676	slr0001	hypothetical protein	164.969	149.374	153.788	170.999
637011703	sll0005	ABC1-like	44.987	57.328	31.088	42.308
637011714	sll0209	hypothetical protein	149.734	216.361	103.803	48.501
637011729	sll0195	ATP-dependent proteinase; BsgA	104.365	122.192	69.365	100.594
637011746	sll0410	hypothetical protein	22.622	16.675	18.936	63.382
637011757	slr0439	hypothetical protein	28.05	20.788	32.285	5.271
637011762	slr0440	hypothetical protein	24.776	27.708	25.879	44.243
637011765	slr0050	ribonuclease Z	51.465	50.664	34.727	49.955

637011776	slr0053	hypothetical protein	173.632	119.387	146.339	294.589
637011782	sll0063	hypothetical protein	92.222	51.355	60.438	37.138
637011787	slr0060	hypothetical protein	23.515	20.298	13.015	1.788
637011789	sll0060	hypothetical protein	22.565	26.497	18.541	10.473
637011796	sll0055	processing protease	29.621	18.293	19.183	31.316
637011805	sll0462	hypothetical protein	69.563	33.646	45.238	26.346
637011819	slr0488	hypothetical protein	44.164	45.299	28.062	15.629
637011830	sll0690	virulence associated protein C	10.252	23.09	11.532	7.216
637011847	slr0630	hypothetical protein	68.169	66.74	41.98	101.546
637011854	slr0635	hypothetical protein	68.763	70.724	42.825	33.655
637011871	sll0601	hypothetical protein	96.031	64.601	51.864	43.06
637011908	slr0427	competence damage-inducible protein A	51.339	62.326	25.422	32.461
637011913	slr0193	RNA-binding protein	660.534	663.224	333.117	733.199
637011919	slr0199	hypothetical protein	9.384	14.663	6.952	55.894
637011925	sll0182	ABC transporter	42.715	56.638	32.028	5.227
637011929	slr0204	hypothetical protein	9.883	8.904	10.083	7.688
637011944	sll0887	hypothetical protein	101.933	75.448	49.121	260.477
637011945	sll0886	hypothetical protein	67.463	60.173	44.278	112.319
637011984	sll0553	hypothetical protein	57.572	42.598	35.417	223.263
637011988	sll0549	hypothetical protein	55.867	44.554	34.067	98.928
637012006	slr0581	hypothetical protein	70.133	60.817	42.411	654.676
637012021	slr0835	MoxR protein	82.473	76.149	57.096	37.497
637012071	slr0095	O-methyltransferase	28.491	28.001	15.448	87.731
637012081	slr0502	CobW protein	36.972	48.048	21.582	18.308
637012084	slr0506	protochlorophyllide oxidoreductase	150.635	125.486	109.032	33.086
637012100	slr0517	hypothetical protein	25.13	13.584	10.167	55.109
637012111	sll0597	hypothetical protein	45.367	47.353	35.84	17.73
637012112	sll0596	hypothetical protein	58.409	41.79	35.349	61.897
637012122	slr0619	hypothetical protein	74.135	93.088	50.454	20.705

637012126	sll0586	hypothetical protein	23.232	13.342	13.355	33.594
637012138	slr0104	hypothetical protein	33.978	18.567	18.765	25.82
637012139	sll0103	hypothetical protein	116.386	56.256	72.811	150.732
637012144	sll0100	N-acyl-L-amino acid amidohydrolase	65.668	27.128	30.92	74.525
637012146	sll0098	hypothetical protein	115.461	60.743	48.119	204.28
637012151	sll0095	ABC1-like	47.768	33.476	30.368	89.862
637012175	slr0304	hypothetical protein	13.249	16.443	8.637	12.986
637012178	sll0286	hypothetical protein	49.92	47.915	29.459	96.452
637012179	sll0284	hypothetical protein	18.949	18.38	12.144	55.978
637012188	slr0314	bromoperoxidase	12.399	17.567	17.644	21.494
637012189	slr0315	hypothetical protein	21.962	24.11	28.602	20.148
637012218	sll0787	hypothetical protein	4.962	5.835	4.673	2.678
637012220	sll0785	hypothetical protein	4.731	7.051	4.752	1.963
637012221	sll0784	nitrilase	5.279	9.079	5.799	2.2
637012261	slr0711	hypothetical protein	62.219	53.81	36.978	67.114
637012270	sll0658	hypothetical protein	30.529	54.721	26.135	12.953
637012285	slr0022	hypothetical protein	111.713	65.102	48.687	34.883
637012295	slr0031	hypothetical protein	37.769	40.437	25.862	20.877
637012305	slr0039	hypothetical protein	145.821	99.704	75.686	70.363
637012315	sll0517	RNA binding protein	418.647	1065.547	256.132	4790.022
637012318	slr0527	ExsB protein	47.561	36.401	22.724	76.333
637012336	sll0503	hypothetical protein	25.307	20.193	12.029	18.106
637012347	sll0496	hypothetical protein	39.707	61.739	31.023	6.828
637012359	slr0930	hypothetical protein	53.443	42.224	20.887	105.62
637012364	sll0898	ribosome-associated GTPase	34.654	48.882	23.213	37.273
637012377	slr0551	hypothetical protein	453.465	592.746	398.547	1398.764
637012382	sll0528	hypothetical protein	78.631	83.569	64.496	5101.59
637012383	slr0556	hypothetical protein	14.637	13.871	17.722	26.722
637012393	slr1419	hypothetical protein	83	86.845	61.765	71.562

637012407	slr1428	hypothetical protein	131.376	112.202	84.057	56.641
637012426	slr1461	hypothetical protein	121.386	68.977	96.07	216.341
637012428	slr1462	hypothetical protein	19.759	16.316	16.433	40.566
637012469	sll1495	hypothetical protein	35.093	69.189	32.776	11.252
637012478	sll1491	beta transducin-like protein	107.266	45.214	74.24	417.754
637012481	sll1489	hypothetical protein	229.783	139.333	101.776	59.612
637012499	sll1477	hypothetical protein	29.411	28.533	15.056	157.309
637012542	slr1653	N-acyl-L-amino acid amidohydrolase	52.437	33.794	35.85	65.777
637012566	sll0451	hypothetical protein	15.511	17.24	12.52	4.925
637012587	slr0458	hypothetical protein	23.761	19.371	11.696	6.241
637012600	sll1108	acid phosphatase	75.907	42.294	41.795	13.828
637012610	sll1107	hypothetical protein	63.65	72.872	55.638	119.854
637012612	slr1192	zinc-containing alcohol dehydrogenase family	186.841	100.576	94.479	276.188
637012614	slr0586	hypothetical protein	85.196	111.312	63.375	23.275
637012626	sll0572	hypothetical protein	33.057	23.768	37.233	189.725
637012632	slr0596	creatinine amidohydrolase	28.83	20.018	15.87	148.766
637012648	slr0609	47 kD protein	121.339	133.241	69.252	147.365
637012649	slr0610	hypothetical protein	29.24	39.695	16.801	103.76
637471819	slr5017	hypothetical protein	10.8	5.838	5.763	3.841
637471822	ssr5020	hypothetical protein	3.654	2.394	4.205	24.903
637471823	slr5021	hypothetical protein	5.452	4.822	4.791	47.011
637471825	slr5023	hypothetical protein	3.196	6.14	3.01	8.524
637471845	sll5043	hypothetical protein	3.828	2.565	2.512	3.094
637471851	sll5049	hypothetical protein	39.864	25.805	18.85	16.698
637471856	slr5054	hypothetical protein	12.836	6.393	5.554	2.313
637471882	sll5080	non-heme chloroperoxidase	141.958	95.328	96.178	34.604
637471890	slr5088	hypothetical protein	4.311	5.178	5.714	14.053
637471891	sll5089	hypothetical protein	42.484	29.556	44.499	22.463
637471896	sll5094	plasmid stabilization protein	8.745	10.548	7.237	156.553

637471918	slr5116	hypothetical protein	18.674	23.739	14.018	26.708
637471937	sll7003	plasmid stability protein	72.052	35.406	23.874	847.67
637471938	ssl7004	hypothetical protein	179.062	62.386	37.779	1120.856
637471944	slr7010	hypothetical protein	4.117	5.369	3.231	17.456
637471963	sll7029	hypothetical protein	35.483	35.777	23.642	83.326
637471980	ssl7046	hypothetical protein	24.169	21.252	21.162	83.684
637471994	slr7060	hypothetical protein	29.738	23.925	27.089	1571.501
637472001	sll7067	hypothetical protein	39.117	32.254	87.751	5.098
637472024	sll7090	hypothetical protein	53.97	23.995	42.06	3.998
637472029	slr7095	hypothetical protein	15.974	17.498	36.981	64.794
637472041	sll8001	hypothetical protein	121.043	83.658	91.848	38.786
637472045	ssl8005	hypothetical protein	70.814	68.725	45.568	61.381
637472061	slr8021	hypothetical protein	13.598	7.975	7.435	14.818
637472067	sll8027	hypothetical protein	41.923	36.447	37.707	746.128
637472070	slr8030	hypothetical protein	110.266	84	69.323	53.041
637472074	sll8034	2-nitropropane dioxygenase	13.937	5.707	8.333	9.44
637472078	slr8038	WD-repeat protein	103.293	61.277	68.998	106.874
637472088	sll8048	hypothetical protein	28.5	25.161	21.986	19.754
637472095	slr6006	hypothetical protein	32.376	16.073	30.383	25.519
637472096	slr6007	hypothetical protein	11.832	5.893	10.841	6.254
637472114	slr6025	hypothetical protein	0	0.496	0.211	19.158
637472138	slr6049	hypothetical protein	64.601	44.402	32.856	77.06
637472149	sll6060	hypothetical protein	43.735	24.177	26.245	14.009
637472154	slr6065	hypothetical protein	32.376	16.073	30.383	25.519
637472155	slr6066	hypothetical protein	11.832	5.893	10.841	6.254
637472173	slr6084	hypothetical protein	0	0.496	0.211	19.457
637472192	slr6103	hypothetical protein	8.212	9.732	6.672	7.086
637009439	slr1315	hypothetical protein	53.576	44.616	29.386	48.633
637009456	slr1485	hypothetical protein	9.813	22.904	5.75	160.954

637009462	slr1493	hypothetical protein	6.962	10.833	6.313	1.719
637009465	sll1400	hypothetical protein	23.097	28.375	17.968	9.821
637009466	ssl2733	hypothetical protein	32.709	30.685	27.069	15.201
637009481	slr1116	hypothetical protein	49.346	31.523	33.871	11.991
637009489	sll1060	hypothetical protein	27.928	22.056	24.178	28.573
637009519	slr0722	hypothetical protein	34.646	16.47	18.795	21.259
637009529	slr0732	hypothetical protein	7.339	10.458	4.838	1.305
637009544	slr0742	hypothetical protein	98.313	198.643	68.014	382.959
637009557	sll0230	hypothetical protein	278.699	191.592	163.185	40.044
637009567	slr0250	hypothetical protein	420.195	209.937	162.414	1484.869
637009576	slr0254	hypothetical protein	39.447	30.024	19.112	4.955
637009580	sll0218	hypothetical protein	8.603	7.154	7.478	12.354
637009584	slr1411	hypothetical protein	53.046	34.91	31.094	78.077
637009593	slr1413	hypothetical protein	29.214	24.218	19.683	31.146
637009597	slr1417	hypothetical protein	328.055	346.752	250.948	425.498
637009604	slr1094	hypothetical protein	20.974	16.426	12.619	134.408
637009605	sll1039	hypothetical protein	40.973	29.756	32.531	31.337
637009606	slr1095	hypothetical protein	41.341	26.174	34.106	12.251
637009608	slr1097	hypothetical protein	193.364	239.429	126.433	59.267
637009635	slr1773	hypothetical protein	8.398	12.272	13.597	3.537
637009650	sll1678	spore maturation protein A	52.549	66.4	37.311	5.84
637009660	slr1790	hypothetical protein	94.407	117.177	82.091	153.148
637009669	ssr3000	hypothetical protein	28.621	75.886	25.08	78.983
637009688	sll1652	hypothetical protein	71.865	78.635	59.544	463.198
637009690	slr1290	hypothetical protein	47.951	90.127	57.573	53.287
637009691	sll1201	hypothetical protein	252.293	197.531	184.968	217.573
637009695	ssr2142	hypothetical protein	227.707	147.13	311.182	150.988
637009700	slr1298	hypothetical protein	21.049	21.245	20.107	4.981
637009710	slr1303	hypothetical protein	25.626	18.752	18.886	23.649

637009714	sll1188	hypothetical protein	48.568	72.45	49.875	42.87
637009716	sll1186	hypothetical protein	148.774	176.674	129.336	105.295
637009728	slr0967	hypothetical protein	562.556	237.875	932.907	17969.097
637009729	sll0939	hypothetical protein	15.446	15.627	9.127	70.679
637009744	sll0925	hypothetical protein	36.657	30.068	28.147	40.861
637009746	slr0975	hypothetical protein	246.578	143.098	158.571	396.611
637009751	slr0976	hypothetical protein	181.853	110.428	170.955	61.778
637009755	slr0981	hypothetical protein	174.768	150.663	156.168	15.158
637009762	slr1612	hypothetical protein	295.979	352.528	409.069	156.567
637009763	slr1613	hypothetical protein	56.951	104.658	107.625	17.049
637009786	ssr1765	hypothetical protein	74.077	60.227	82.864	37.717
637009790	ssr1768	hypothetical protein	32.957	41.765	63.705	10.795
637009791	slr1081	hypothetical protein	48.289	34.527	68.295	32.077
637009793	slr1083	hypothetical protein	39.629	20.4	46.006	15.378
637009796	slr1087	hypothetical protein	57.874	44.212	61.051	38.377
637009799	sll1024	hypothetical protein	16.236	17.49	12.284	10.733
637009802	sll1021	hypothetical protein	82.04	86.011	90.16	43.867
637009828	slr0686	hypothetical protein	67.735	83.446	69.476	16.539
637009833	slr0688	hypothetical protein	37.606	28.618	21.938	135.802
637009835	slr0689	hypothetical protein	243.885	142.049	150.769	132.515
637009837	sll0638	hypothetical protein	65.347	43.877	38.128	46.787
637009838	slr0692	hypothetical protein	221.203	120.282	98.611	82.371
637009860	slr1599	hypothetical protein	61.784	69.054	59.703	200.593
637009870	ssl2922	virulence associated protein B	21.089	23.687	10.875	7.365
637009872	sll1505	hypothetical protein	7.155	23.356	6.738	8.633
637009890	sll1011	hypothetical protein	36.753	21.589	20.686	12.769
637009909	slr1753	hypothetical protein	493.125	170.647	303.998	98.433
637009922	ssr2962	hypothetical protein	42.74	43.504	34.019	20.355
637009923	slr1767	hypothetical protein	23.302	25.639	27.349	14.411

637009936	slr1847	hypothetical protein	402.182	682.894	358.11	342.945
637009943	slr1851	hypothetical protein	49.164	50.043	42.991	142.363
637009958	slr2038	hypothetical protein	7.386	9.462	5.796	3.049
637009962	slr2042	hypothetical protein	27.791	17.223	21.353	70.802
637009966	sll1938	hypothetical protein	68.465	47.983	45.625	46.149
637009991	sll1837	hypothetical protein	852.345	613.032	544.947	98.292
637009996	sll1834	hypothetical protein	184.868	160.016	107.275	26.764
637010015	sll0995	hypothetical protein	133.727	76.866	95.261	69.095
637010037	sll0983	hypothetical protein	80.683	43.531	47.23	52.343
637010044	slr1378	hypothetical protein	64.938	64.883	51.639	44.902
637010053	slr1384	hypothetical protein	50.816	47.86	29.61	70.751
637010071	slr1394	hypothetical protein	206.37	146.376	135.469	186.145
637010110	sll1925	hypothetical protein	110.65	124.869	115.627	57.915
637010169	sll1072	hypothetical protein	77.173	74.212	42.193	119.27
637010238	sll1118	hypothetical protein	86.124	64.513	52.75	34.081
637010252	slr1209	hypothetical protein	26.019	31.452	12.741	5.089
637010268	slr2073	hypothetical protein	4586.033	2790.216	2845.474	235.666
637010270	sll1965	hypothetical protein	8.356	15.193	8.918	94.72
637010339	sll1464	hypothetical protein	28.74	34.365	17.141	73.352
637010342	sll1461	hypothetical protein	109.82	78.529	76.913	102.468
637010349	slr1552	hypothetical protein	20.458	25.764	16.203	1.265
637010362	slr1752	hypothetical protein	166.567	124.421	104.732	337.653
637010369	sll1142	hypothetical protein	82.901	38.312	38.001	18.425
637010386	slr1236	hypothetical protein	76.536	57.52	52.693	74.046
637010402	ssr2067	hypothetical protein	22.302	38.721	27.069	7.931
637010416	sll1355	hypothetical protein	68.564	48.528	75.623	61.514
637010419	slr1444	hypothetical protein	34.962	18.611	19.797	13.56
637010424	sll1352	hypothetical protein	14.038	18.375	13.675	2.69
637010428	sll1350	hypothetical protein	79.765	68.24	53.769	25.636

637010442	slr1363	hypothetical protein	88.661	52.662	36.151	24.175
637010460	sll0875	hypothetical protein	95.034	75.261	54.39	30.455
637010475	slr0885	hypothetical protein	39.95	30.032	37.808	57.515
637010496	ssl2595	hypothetical protein	175.54	210.646	95.031	48.062
637010511	sll1783	hypothetical protein	507.436	354.068	430.746	8.252
637010513	slr1853	hypothetical protein	1000.215	523.078	661.348	9.374
637010530	sll1774	hypothetical protein	304.848	239.248	220.985	316.836
637010532	slr1870	hypothetical protein	29.765	30.04	24.149	15.267
637010544	ssl3379	ATP-dependent Clp protease adaptor protein ClpS	69.383	92.339	35.936	140.843
637010568	slr1886	putative iojap protein	187.604	102.349	102.475	296.139
637010596	ssl3291	hypothetical protein	316.936	226.799	178.923	85.172
637010607	sll1697	hypothetical protein	167.457	104.387	82.474	150.453
637010612	slr1815	hypothetical protein	60.119	58.298	60.429	24.734
637010620	sll1691	hypothetical protein	260.808	227.816	177.776	64.369
637010621	slr1819	hypothetical protein	65.172	49.901	46.868	49.203
637010643	sll1620	hypothetical protein	142.563	128.256	103.062	103.378
637010668	sll0847	hypothetical protein	82.745	76.307	105.139	154.43
637010670	sll0846	hypothetical protein	82.25	84.383	71.872	578.056
637010677	slr0865	hypothetical protein	30.145	35.368	17.117	21.078
637010690	sll1163	hypothetical protein	16.836	14.891	10.569	1.123
637010709	sll1151	hypothetical protein	122.795	93.481	86.519	48.789
637010713	slr1254	phytoene desaturase	71.884	74.512	43.533	162.134
637010719	slr1258	hypothetical protein	71.779	32.369	36.934	124.193
637010734	sll1956	hypothetical protein	21.947	15.594	16.199	2.373
637010762	slr1712	hypothetical protein	235.774	202.123	179.947	233.823
637010770	sll1609	hypothetical protein	52.739	43.614	37.551	13.437
637010773	sll1606	hypothetical protein	65.729	76.041	40.582	20.317
637010781	sll1601	hypothetical protein	40.827	18.503	23.293	9.565
637010800	sll1586	hypothetical protein	62.475	39.765	35.772	33.092

637010801	sll0254	hypothetical protein	157.919	80.192	64.696	33.926
637010840	slr2084	hypothetical protein	51.053	56.889	36.907	36.906
637010851	slr2092	hypothetical protein	34.174	17.632	16.627	13.672
637010863	slr2101	hypothetical protein	100.172	45.122	48.913	18.73
637010867	sll1973	hypothetical protein	149.905	80.978	80.896	49.748
637010878	sll1424	hypothetical protein	35.601	35.331	23.154	113.776
637010899	slr1519	HglK	73.995	56.827	45.431	118.533
637010905	sll1411	hypothetical protein	23.524	25.238	14.768	11.502
637010953	sll1232	hypothetical protein	4.872	8.528	6.499	1.624
637010966	sll1222	hypothetical protein	31.174	29.58	30.2	15.29
637010988	sll0814	hypothetical protein	297.127	274.801	156.392	312.698
637011029	slr1342	hypothetical protein	136.044	153.631	75.82	19.625
637011032	sll1252	hypothetical protein	29.942	34.943	17.415	31.316
637011036	sll1250	hypothetical protein	8.875	23.767	4.736	3.55
637011056	sll1897	hypothetical protein	24.186	14.262	19.739	2.867
637011066	slr1968	hypothetical protein	18.489	14.711	15.028	16.981
637011083	sll1880	hypothetical protein	51.053	46.943	41.763	22.694
637011113	slr1468	tymocyte protein cThy28kD	50.372	47.817	24.676	15.267
637011130	slr1478	hypothetical protein	29.161	22.378	19.211	8.802
637011134	sll1372	hypothetical protein	41.064	55.033	33.332	38.904
637011172	sll1446	hypothetical protein	99.86	81.492	44.78	27.267
637011179	slr1530	hypothetical protein	25.259	24.124	17.648	7.606
637011190	slr1152	hypothetical protein	249.999	173.172	411.856	118.638
637011200	sll1095	hypothetical protein	15.12	21.229	11.866	10.322
637011206	slr1162	hypothetical protein	18.899	45.362	31.259	13.893
637011212	sll1092	hypothetical protein	14.199	46.88	17.829	1.183
637011213	ssl2138	hypothetical protein	11.614	40.357	14.583	0
637011218	slr1170	hypothetical protein	9.702	10.25	7.918	4.744
637011223	slr1173	hypothetical protein	156.92	132.88	158.846	13.051

637011275	slr0940	zeta-carotene desaturase precursor	63.082	69.688	35.129	39.88
637011276	slr0941	hypothetical protein	62.656	70.129	42.492	37.135
637011285	sll0913	hypothetical protein	23.237	20.051	18.502	11.589
637011296	slr0954	hypothetical protein	818.073	800.665	513.335	301.091
637011304	ssr2723	ATP-dependent Clp protease adaptor protein ClpS	352.889	362.761	255.256	261.264
637011314	slr1628	hypothetical protein	37.313	43.129	29.015	18.094
637011323	slr1636	hypothetical protein	24.334	21.741	19.791	47.201
637011349	ssr0756	hypothetical protein	7.386	11.342	11.013	42.681
637011362	slr0445	hypothetical protein	52.629	36.126	39.172	103.948
637011369	sll0274	hypothetical protein	87.169	56.398	46.151	102.294
637011384	slr0284	hypothetical protein	51.86	56.256	129.615	33.926
637011394	slr0292	hypothetical protein	56.783	31.841	22.712	179.535
637011415	slr0404	hypothetical protein	608.06	440.612	460.066	1588.976
637011423	slr0142	hypothetical protein	4.673	7.692	2.934	2.285
637011440	ssl0259	hypothetical protein	15.471	42.572	26.709	25.444
637011500	slr0989	hypothetical protein	85.186	77.296	51.782	88.154
637011501	slr0990	hypothetical protein	94.521	67.507	57.866	77.377
637011517	sll0301	hypothetical protein	103.034	70.981	81.596	73.938
637011523	sll0298	hypothetical protein	175.25	117.71	125.35	169.549
637011525	sll0296	unidentified open reading frame	123.666	103.486	91.281	136.882
637011543	sll0176	hypothetical protein	59.286	87.23	35.936	11.511
637011569	sll0154	hypothetical protein	199.046	128.549	139.785	98.7
637011584	sll0335	hypothetical protein	34.915	23.401	27.287	47.51
637011591	slr0380	hypothetical protein	122.695	85.362	91.168	9.071
637011602	slr0769	hypothetical protein	405.435	407.647	329.734	30.285
637011603	slr0770	hypothetical protein	124.112	194.003	128.295	22.353
637011654	slr0351	hypothetical protein	96.637	84.248	46.105	13.668
637011690	slr0014	Mg2+ transport ATPase	110.098	113.708	72.025	45.042
637011701	sll0007	hypothetical protein	78.707	67.389	40.989	26.239

637011718	sll0205	hypothetical protein	22.715	42.415	25.383	9.289
637011727	sll0198	hypothetical protein	32.198	20.07	24.706	46.118
637011734	sll0192	hypothetical protein	15.39	11.808	8.221	3.121
637011735	slr0232	hypothetical protein	29.274	18.495	11.979	59.486
637011740	sll0414	hypothetical protein	101.319	115.941	64.484	28.725
637011741	slr0431	hypothetical protein	136.376	103.994	99.933	39.332
637011745	sll0412	hypothetical protein	14.447	14.6	11.465	47.011
637011784	slr0058	hypothetical protein	212.153	104.84	97.756	87.187
637011799	slr0069	hypothetical protein	1.561	9.845	3.594	3.932
637011821	slr0491	hypothetical protein	46.583	45.392	38.91	25.269
637011831	ssl1300	PEMI-like protein	29.286	50.041	40.532	13.018
637011843	slr0719	hypothetical protein	89.761	72.814	53.026	109.234
637011849	sll0615	transmembrane protein FT27	108.952	93.488	5.555	20.159
637011873	slr0650	hypothetical protein	141.119	93.156	62.443	47.614
637011875	sll0397	hypothetical protein	35.71	29.805	30.331	29.646
637011902	ssl0738	hypothetical protein	3.137	7.706	2.461	1.394
637011918	sll0185	hypothetical protein	224.331	191.939	241.028	660.099
637011922	ssl0353	hypothetical protein	122.66	109.641	95.34	53.485
637011923	sll0183	hypothetical protein	461.893	210.958	218.518	93.165
637011927	ssl0350	hypothetical protein	28.621	42.192	24.838	5.239
637011931	slr0207	hypothetical protein	6.772	6.759	6.908	8.278
637011938	ssl0331	hypothetical protein	10.017	14.064	8.086	9.542
637011940	ssr0336	hypothetical protein	43.474	48.066	24.564	18.681
637011942	sll0888	hypothetical protein	27.572	34.166	24.271	26.377
637011970	slr0919	hypothetical protein	41.425	51.629	24.115	123.204
637011986	slr0565	hypothetical protein	328.698	235.721	240.639	493.901
637011998	sgl0001	hypothetical protein	8.586	4.922	0.898	3.817
637011999	ssl1045	hypothetical protein	18.076	8.512	7.565	4.687
637012076	sll0488	hypothetical protein	34.233	28.955	25.19	21.703

637012088	slr0509	alkaline phosphatase like protein	40.569	42.601	29.83	11.363
637012097	slr0516	hypothetical protein	51.414	48.508	20.658	24.683
637012162	slr0119	serum resistance locus; BrkB	13.279	21.426	17.123	9.412
637012171	slr0300	hypothetical protein	18.2	11.972	9.951	10.439
637012176	slr0305	hypothetical protein	14.174	13.528	7.358	14.055
637012196	sll0800	hypothetical protein	116.204	112.3	100.783	125.883
637012209	sll0793	hypothetical protein	28.358	36.127	12.528	142.862
637012214	sll0788	hypothetical protein	1960.149	42.834	28.639	142.333
637012225	sll0781	hypothetical protein	151.176	135.23	90.07	20.877
637012232	ssr1169	salt-stress induced hydrophobic peptide	154.551	139.584	207.081	53.433
637012234	slr0698	hypothetical protein	36.93	21.595	16.925	19.699
637012250	sll0670	hypothetical protein	7.408	1.655	1.902	0.898
637012262	slr0712	hypothetical protein	29.773	24.993	17.134	56.876
637012271	ssl1255	hypothetical protein	68.689	128.763	70.275	15.832
637012279	sll0740	hypothetical protein	18.919	13.826	14.161	19.191
637012298	sll0037	hypothetical protein	153.549	210.75	160.805	86.073
637012334	sll0505	hypothetical protein	76.824	52.555	46.575	54.739
637012342	sll0499	hypothetical protein	10.978	8.24	7.195	5.63
637012344	sll0498	hypothetical protein	90.221	65.197	73.538	191.759
637012360	ssr1558	hypothetical protein	36.93	34.479	19.32	43.775
637012384	sll0525	hypothetical protein	43.365	46.453	48.459	119.511
637012386	sll0524	hypothetical protein	67.207	42.631	35.535	148.918
637012409	slr1429	hypothetical protein	51.714	68.962	43.619	19.303
637012444	slr0655	hypothetical protein	80.96	76.924	44.87	135.797
637012445	slr0656	hypothetical protein	27.258	25.237	22.967	20.151
637012448	slr0658	hypothetical protein	37.241	47.529	25.004	8.89
637012476	slr1565	hypothetical protein	144.609	95.98	88.264	55.799
637012483	slr1570	hypothetical protein	126.451	69.041	76.282	28.451
637012484	slr1571	hypothetical protein	132.134	78.436	72.663	16.589

637012485	slr1572	hypothetical protein	56.237	47.965	37.953	8.035
637012486	slr1573	hypothetical protein	174.1	144.566	100.621	38.215
637012487	ssl2874	hypothetical protein	212.429	165.954	155.323	12.439
637012492	sll1486	hypothetical protein	180.762	118.75	110.915	61.602
637012493	sll1485	hypothetical protein	119.399	86.972	98.328	38.401
637012514	sll0736	hypothetical protein	32.189	46.215	21.878	10.825
637012515	sll0735	hypothetical protein	124.419	148.493	68.956	25.732
637012528	slr0755	hypothetical protein	7.386	22.532	7.535	13.406
637012529	ssr1258	hypothetical protein	8.177	34.959	9.241	13.086
637012530	sll0727	hypothetical protein	14.778	22.173	14.968	2.89
637012549	slr1658	hypothetical protein	58.958	49.927	37.373	6.616
637012550	slr1659	hypothetical protein	29.123	51.814	24.273	4.91
637012565	sll1542	hypothetical protein	113.722	74.758	75.812	56.637
637012584	slr0455	hypothetical protein	173.336	108.549	91.864	80.992
637012595	slr1177	hypothetical protein	248.787	253.846	178.664	52.867
637012606	slr1186	hypothetical protein	159.814	170.088	95.266	58.061
637012611	sll1106	hypothetical protein	1116.204	908.92	1335.48	1329.023
637012617	sll0577	hypothetical protein	270.044	303.118	175.241	605.875
637012627	slr0592	hypothetical protein	15.59	19.495	16.215	3.517
637471802	sll5132	hypothetical protein	2.93	6.534	3.183	4.007
637471805	sll5003	hypothetical protein	13.568	11.043	10.914	33.926
637471806	sll5004	hypothetical protein	31.923	18.932	19.35	68.993
637471813	ssr5011	hypothetical protein	3.094	4.941	3.885	14.441
637471820	slr5018	hypothetical protein	5.021	7.155	5.989	5.357
637471827	ssl5025	hypothetical protein	21.135	22.935	13.269	21.138
637471832	sll5030	hypothetical protein	45.542	43.116	45.117	1617.109
637471839	slr5037	hypothetical protein	0.894	3.076	2.527	1885.267
637471879	slr5077	hypothetical protein	192.12	165.965	156.273	176.453
637471883	sll5081	hypothetical protein	10.012	13.048	8.198	2.322

637471884	slr5082	hypothetical protein	316.997	250.916	232.87	298.167
637471889	slr5087	hypothetical protein	3.271	4.822	2.31	4.725
637471920	slr5118	hypothetical protein	293.125	229.144	208.113	241.022
637471921	slr5119	hypothetical protein	222.729	213.421	196.04	227.514
637471926	slr5124	hypothetical protein	259.135	196.488	180.588	202.82
637471948	slr7014	hypothetical protein	1.741	4.599	2.596	1.548
637471958	slr7024	hypothetical protein	12.301	23.838	17.937	4.939
637471959	slr7025	hypothetical protein	5.765	15.784	9.307	2.197
637471962	sll7028	hypothetical protein	44.263	45.716	27.359	50.646
637471965	sll7031	hypothetical protein	23.803	13.646	12.809	108.327
637471966	slr7032	hypothetical protein	7.56	15.125	13.561	4.321
637471968	sll7034	hypothetical protein	37.129	40.798	36.26	189.343
637471973	ssl7039	hypothetical protein	29.506	24.938	19.635	207.752
637472002	slr7068	hypothetical protein	27.998	32.102	32.225	9.818
637472036	slr7102	hypothetical protein	8.443	11.533	14.841	4.654
637472044	sll8004	hypothetical protein	33.852	21.323	21.639	24.897
637472048	ssl8008	hypothetical protein	137.379	76.133	68.039	131.632
637472062	slr8022	hypothetical protein	13.288	8.037	8.021	4.089
637472106	sll6017	hypothetical protein	321.62	282.591	259.102	279.195
637472128	slr6039	hypothetical protein	1957.243	42.549	28.639	141.817
637472147	slr6058	hypothetical protein	12.204	10.423	10.58	8.008
637472165	sll6076	hypothetical protein	322.065	282.81	259.242	278.997
637472187	sll6098	hypothetical protein	99.176	90.103	64.665	49.755
637472189	slr6100	hypothetical protein	2674.824	2984.7	3951.276	8215.431
637472196	slr6107	hypothetical protein	10.527	8.891	11.153	7.019
637009537	sll0698	drug sensory protein A	65.517	46.767	41.564	23.452
637009558	slr0244	hypothetical protein	356.302	238.741	310.436	37.318
637009594	slr1414	sensory transduction histidine kinase	45.479	35.77	23.219	14.755
637009612	slr1101	hypothetical protein	59.867	51.095	46.486	96.642

637009613	slr1102	hypothetical protein	65.553	42.323	40.102	33.37
637009614	slr1103	hypothetical protein	82.907	80.803	56.42	33.686
637009615	slr1104	hypothetical protein	108.889	114.618	69.882	45.087
637009616	slr1105	elongation factor EF-G	247.535	272.905	124.814	840.684
637009623	sll1033	hypothetical protein	178.141	178.521	123.761	100.408
637009657	sll1673	regulatory components of sensory transduction syst	15.669	25.955	15.707	10.56
637009658	sll1672	hybrid sensory kinase	17.824	19.47	18.506	1.889
637009678	slr1798	PleD gene product	69.549	73.199	61.876	11.897
637009686	sll1654	hypothetical protein	395.617	231.787	213.569	591.339
637009712	slr1305	regulatory components of sensory transduction syst	17.696	19.332	13.118	5.869
637009809	slr1400	hybrid sensory kinase	77.824	65.927	74.89	234.542
637009810	slr0670	hypothetical protein	140.751	182.542	138.206	142.732
637009825	sll0646	adenylate cyclase	49.906	40.65	34.607	26.89
637009830	slr0687	PleD gene product	14.013	12.08	8.872	9.185
637009846	slr1593	hypothetical protein	58.748	188.29	124.357	347.349
637009847	slr1594	PatA subfamily	14.744	82.537	47.461	41.765
637009888	slr1047	PleD	10.34	14.215	11.438	8.208
637009902	sll1003	sensory transduction histidine kinase	6.744	5.991	4.288	2.383
637009913	slr1759	hybrid sensory kinase	8.999	5.576	8.106	6.296
637009914	slr1760	regulatory components of sensory transduction syst	24.635	18.158	29.795	146.224
637009920	slr1764	cAMP binding protein	13.356	28.284	14.774	17.811
637009934	ssr3122	hypothetical protein	236.952	203.109	135.804	140.831
637009961	slr2041	cell division response regulator; DivK	57.554	42.115	43.202	213.009
637009973	slr2047	phosphate starvation-inducible protein	91.864	48.134	41.397	39.133
637009992	slr1912	anti-sigma F factor antagonist	217.42	214.386	163.977	59.869
637010054	slr1385	hypothetical protein	61.317	38.926	36.715	21.269
637010070	slr1393	sensory transduction histidine kinase	33.464	23.166	22.704	44.625
637010121	sll1924	hypothetical protein	12.773	20.224	20.641	4.837
637010159	slr1142	hypothetical protein	60.608	48.314	53.693	10.178

637010160	slr1143	hypothetical protein	56.908	34.26	23.296	11.687
637010165	slr1147	sensory transduction histidine kinase	30.002	31.684	26.849	73.116
637010229	sll1124	sensory transduction histidine kinase	34.462	21.403	20.351	23.033
637010255	slr1212	ethylene response sensor protein	5.961	8.954	8.633	0.422
637010257	slr1214	PatA subfamily	12.277	34.538	11.079	5.048
637010265	sll1968	PmgA	70.332	50.201	44.477	88.314
637010273	slr2077	hypothetical protein	4.842	6.447	5.05	1.527
637010378	slr1230	hypothetical protein	5.963	12.794	4.367	33.572
637010423	sll1353	sensory transduction histidine kinase	15.241	12.192	10.684	3.719
637010516	slr1856	anti-sigma B factor antagonist	600.513	194.337	289.121	37.935
637010518	slr1859	hypothetical protein	165.947	99.092	98.247	4.669
637010520	slr1861	hypothetical protein	40.546	34.378	25.954	1.767
637010536	sll1771	hypothetical protein	324.591	378.236	175.875	398.927
637010598	slr1805	sensory transduction histidine kinase	98.455	24.34	81.934	169.154
637010625	sll1687	hypothetical protein	17.096	13.354	11.843	21.173
637010692	sll1161	adenylate cyclase	5.452	11.72	5.775	2.423
637010747	slr1991	adenylate cyclase	75.193	60.999	49.757	309.698
637010794	sll1590	sensory transduction histidine kinase	53.164	34.378	78.015	45.669
637010799	slr1731	potassium-transporting ATPase D chain	22.835	14.86	17.242	3.018
637010828	sll0241	hypothetical protein	61.774	21.199	17.072	55.216
637010860	slr2098	hybrid sensory kinase	25.31	19.747	25.571	43.872
637010879	sll1423	global nitrogen regulator	335.342	306.045	203.054	593.776
637010945	slr1324	hybrid sensory kinase	36.167	17.104	16.986	11
637010955	sll1229	hybrid sensory kinase	57.996	30.8	35.083	22.155
637011059	sll1895	hypothetical protein	35.314	26.029	22.789	6.863
637011073	sll1888	sensory transduction histidine kinase	78.261	49.954	49.464	61.113
637011095	sll1871	sensory transduction histidine kinase	8.819	15.21	11.233	4.75
637011107	sll1388	hypothetical protein	64.258	57.707	38.486	197.645
637011135	sll1371	catabolite gene activator protein	75.175	74.846	38.095	22.714

637011163	sll1170	hypothetical protein	6.505	7.032	6.466	2.988
637011164	sll1169	hypothetical protein	4.311	2.942	2.255	1.065
637011165	slr1285	sensory transduction histidine kinase	31.76	37.564	15.07	506.917
637011251	slr1686	hypothetical protein	168.499	96.07	85.538	215.023
637011262	slr1692	hypothetical protein	10.658	12.163	11.223	3.515
637011263	slr1693	PatA subfamily	38.762	57.215	33.295	7.88
637011282	slr0946	arsenate reductase	17.346	15.342	13.612	13.108
637011295	ssr1600	hypothetical protein	1907.504	1985.188	1377.208	563.359
637011377	sll0267	hypothetical protein	35.889	22.142	28.471	18.499
637011488	sll1845	hypothetical protein	94.448	69.265	71.198	138.036
637011489	slr1942	circadian clock protein KaiC	75.341	72.209	41.333	15.488
637011499	slr1951	hypothetical protein	68.834	63.911	58.453	41.548
637011521	slr0328	low molecular weight phosphotyrosine protein phos	52.169	58.392	37.301	30.276
637011541	slr0172	IMP dehydrogenase	308.956	250.986	144.435	93.948
637011571	slr0359	hypothetical protein	27.954	21.802	19.137	13.693
637011582	sll0337	regulation of the phosphate regulon	26.828	32.827	23.096	29.046
637011635	sll0750	adaptive-response sensory kinase	38.161	33.841	44.639	17.095
637011720	slr0222	hybrid sensory kinase	3.884	4.581	3.597	3.626
637011761	sll0400	hypothetical protein	82.566	50.971	60.111	55.823
637011771	sll0068	hypothetical protein	63.704	37.405	41.471	40.177
637011807	slr0473	phytochrome	171.189	44.877	97.924	25.41
637011817	slr0484	sensory transduction histidine kinase	136.16	118.586	109.296	54.954
637011860	slr0640	sensory transduction histidine kinase	24.347	27.491	19.35	35
637011868	sll0602	hypothetical protein	184.131	114.218	92.696	66.847
637011935	slr0210	sensory transduction histidine kinase	11.503	10.834	7.909	41.027
637011941	sll0178	hypothetical protein	5.29	8.46	4.982	2.814
637012015	slr0829	PleD-like protein	16.414	16.165	12.123	5.518
637012031	slr0842	hypothetical protein	43.814	35.906	29.459	29.528
637012040	sll0821	hypothetical protein	56.927	38.745	36.583	434.726

637012098	sll0474	sensory transduction histidine kinase	2.695	3.102	2.227	0.883
637012114	sll0594	transcriptional regulatory protein	464.599	96.945	219.977	616.346
637012152	sll0094	sensory transduction histidine kinase	31.495	20.451	29.659	33.333
637012169	slr0298	heterocyst to vegetative cell connection protein	107.972	41.325	57.566	66.565
637012173	slr0302	PleD-like protein	15.334	13.314	10.187	12.375
637012185	slr0311	sensory transduction histidine kinase	16.72	13.25	8.086	53.433
637012199	slr0789	hypothetical protein	89.247	121.887	74.963	363.061
637012201	sll0798	sensory transduction histidine kinase	9.561	6.862	5.371	4.809
637012212	sll0790	sensory transduction histidine kinase	96.774	8.273	6.342	11.974
637012227	sll0779	PleD-like protein	31.175	19.801	24.363	8.28
637012283	sll0048	hypothetical protein	187.634	107.479	88.749	392.314
637012294	sll0038	PatA subfamily	114.767	69.238	86.496	335.007
637012325	slr0533	sensory transduction histidine kinase	29.608	18.775	18.145	67.81
637012408	sll1334	hypothetical protein	51.854	76.055	76.875	101.578
637012416	sll1367	hypothetical protein	71.661	54.43	50.612	54.968
637012502	sll1475	sensory transduction histidine kinase	21.898	25.674	27.133	4.781
637012504	sll1473	putative chromatic adaptation sensor receptor prote	24.227	23.984	26.616	3.167
637012548	slr1657	PleD gene product	54.338	46.268	33.462	9.219
637012568	slr0449	DNR protein	2.395	4.708	4.36	13.627
637012628	slr0593	cAMP protein kinase regulatory chain	24.476	17.006	17.101	17.314
637012646	slr0607	hypothetical protein	153.23	139.124	155.907	15.267
637471860	slr5058	hypothetical protein	5.549	7.642	6.555	9.671
637471861	sll5059	two-component response regulator	38.161	40.103	25.143	36.949
637471862	sll5060	two-component hybrid sensor and regulator	8.231	7.299	4.395	4.206
637471975	slr7041	hypothetical protein	81.368	49.979	32.669	248.135
637472060	sll8020	hypothetical protein	7.6	8.17	8.201	13.092
637472089	slr6110	hypothetical protein	58.477	82.697	48.432	470.934
637472090	slr6001	two-component hybrid sensor and regulator	55.981	70.89	40.933	177.491
637472130	slr6041	two-component sensor histidine kinase	103.06	9.355	7.888	12.525

637009453	sll1405	biopolymer transport protein	10.407	28.324	5.026	100.71
637009454	sll1404	biopolymer transport ExbB protein	9.766	38.792	5.62	216.096
637009512	sll0716	leader peptidase I	73.222	46.975	31.011	32.29
637009814	slr0677	biopolymer transport ExbB protein	490.065	487.302	324.212	135.257
637009815	slr0678	hypothetical protein	192.924	206.166	154.125	126.845
637009887	slr1046	hypothetical protein	71.214	48.282	38.766	50.889
637009974	slr2048	hypothetical protein	78.33	125.059	86.462	25.636
637010043	slr1377	leader peptidase I	111.346	90.163	73.513	147.786
637010192	sll1814	preprotein translocase SecY	451.211	1451.343	427.987	1149.992
637010282	ssl3335	secretory protein; SecE	664.557	1341.215	450.076	2079.609
637010338	ssl2823	hypothetical protein	82.849	92.896	56.741	54.237
637010864	slr2102	cell division protein; FtsY	155.968	101.316	72.797	191.059
637011010	slr0823	photosystem I assembly protein Ycf3	196.726	179.759	127.015	57.615
637011117	slr1471	putative inner membrane protein translocase compo	305.088	437.04	230.363	99.663
637011153	slr1277	general secretion pathway protein D	456.473	620.994	364.572	41.048
637011181	slr1531	signal recognition particle protein	63.996	74.716	37.052	137.178
637011494	ssr3307	protein-export membrane protein	248.045	439.587	246.023	305.985
637011609	slr0774	protein export protein SecD	159.985	174.713	106.592	81.013
637011610	slr0775	protein export protein SecF	85.862	159.776	83.244	36.234
637011730	sll0194	hypothetical protein	66.445	67.838	58.343	47.097
637011848	sll0616	translocase	180.252	176.545	97.678	289.515
637011915	slr0195	hypothetical protein	42.931	49.224	26.757	79.099
637012083	slr0505	hypothetical protein	28.171	24.888	19.944	33.571
637012092	sll0479	hypothetical protein	14.405	13.784	9.519	80.546
637012093	sll0478	hypothetical protein	22.432	32.119	13.597	150.259
637012094	sll0477	hypothetical protein	71.383	59.675	38.332	328.082
637012520	slr0751	hypothetical protein	70.345	45.298	56.574	125.689
637012554	slr1661	hypothetical protein	66.942	35.428	42.245	12.353
637009457	slr1488	ABC transporter	14.169	13.321	6.582	67.096

637009463	slr1494	ABC transporter	12.492	11.498	8.604	3.398
637009478	slr1113	ABC transporter	68.414	33.28	24.605	243.135
637009499	sll1053	hypothetical protein	219.077	96.045	92.357	710
637009517	sll0709	restriction enzyme LlaI protein	4.698	21.992	10.245	5.056
637009702	sll1193	hypothetical protein	137.241	85.231	126.858	39.853
637009769	slr1619	hypothetical protein	272.01	439.131	305.599	74.501
637010126	slr2019	ABC transporter	63.409	62.127	36.238	36.068
637010167	slr1149	ABC transporter	57.812	51.864	37.667	20.626
637010249	slr1207	hypothetical protein	59.353	42.383	33.563	83.596
637010302	sll1725	ABC transporter	24.92	13.534	11.292	107.857
637010329	slr1543	DNA-damage-inducible protein	32.675	27.89	22.944	28.941
637010438	sll1276	ABC transporter	51.357	67.034	30.562	31.009
637010583	sll2007	hypothetical protein	38.71	39.865	25.078	22.332
637010836	slr2080	hypothetical protein	32.601	50.108	31.652	12.469
637010870	sll1429	hypothetical protein	9.384	22.041	14.846	1.168
637010939	slr2131	cation or drug efflux system protein	110.171	70.24	44.429	58.364
637011139	sll1181	HlyD family of secretion proteins	225.044	232.391	169.65	49.32
637011140	sll1180	HlyB family	300.234	416.886	231.56	92.324
637011166	sll1167	penicillin-binding protein 4	32	23.248	17.145	27.835
637011189	slr1534	hypothetical protein	36.392	28.966	21.3	25.95
637011399	slr0393	hypothetical protein	3.754	20.981	6.48	1.251
637011443	sll0142	cation or drug efflux system protein	54.156	51.08	31.461	88.109
637011444	sll0141	hypothetical protein	99.561	90.814	50.218	175.718
637011456	slr1924	D-alanyl-D-alanine carboxypeptidase	48.534	63.34	43.195	36.422
637011547	sll0173	virginiamycin B hydrolase; Vgb	60.971	84.861	79.914	44.113
637011580	slr0369	cation or drug efflux system protein	362.985	255.408	219.627	68.634
637011621	sll0760	Ycf38	122.632	120.139	113.168	83.837
637011622	sll0759	ABC transporter	79.94	96.265	50.29	91.687
637011710	sll0210	undecaprenyl pyrophosphate phosphatase	39.561	45.073	29.013	27.701

637011739	sll0415	ABC transporter	98.036	104.35	68.126	28.096
637011928	sll0180	hypothetical protein	295.784	156.552	141.883	30.716
637011947	slr0896	hypothetical protein	14.372	11.263	8.245	364.372
637012074	sll0489	ABC transporter	39.718	38.87	26.192	19.732
637012080	sll0484	ABC transporter	52.122	34.073	19.283	26.686
637012116	slr0615	ABC transporter	62.266	34.373	43.915	69.808
637012164	slr0121	hypothetical protein	160.183	73.042	57.382	8.926
637012170	slr0299	hypothetical protein	25.71	15.137	19.948	22.426
637012193	slr0319	beta-lactamase	37.535	56.532	20.03	13.515
637012228	sll0778	ABC transporter	6.079	5.547	5.497	1.737
637012343	slr0544	ABC transporter	42.449	27.39	23.823	50.889
637012496	sll1482	ABC-transporter DevC-like protein	28.322	17.507	15.16	35.118
637012497	sll1481	ABC-transporter DevB-like protein	105.111	60.425	55.733	201.528
637012540	slr1651	haemolysin secretion ATP-binding protein	9.202	6.974	5.679	5.962
637012583	slr0454	cation or drug efflux system protein	64.915	65.127	37.792	30.086
637012630	slr0594	hypothetical protein	46.579	33.092	28.097	155.659
637472040	sll8049	type I site-specific deoxyribonuclease chain R	21.509	9.745	12.16	5.243
637472046	sll8006	type I restriction-modification system S subunit	49.732	57.828	52.552	64.459
637472049	sll8009	type I restriction-modification system M subunit	8.014	6.751	7.762	22.086
637472050	ssl8010	type I restriction-modification system M subunit	62.965	101.729	82.653	158.603
637472184	slr6095	hypothetical protein	49.817	73.497	37.139	17.034
637472186	slr6097	type I site-specific deoxyribonuclease	11.593	20.366	10.007	1.804
637472191	slr6102	type I restriction-modification system R subunit	16.355	14.698	12.361	30.849
637009431	slr0613	hypothetical protein	86.191	64.015	44.817	343.937
637009432	sll0558	hypothetical protein	51.86	48.923	26.875	78.29
637009433	sll1214	hypothetical protein	886.841	926.023	760.961	165.565
637009436	slr1311	photosystem II D1 protein	39821.505	34507.726	25610.092	68919.345
637009446	sll1204	hypothetical protein	2.675	2.826	0.84	0.119
637009455	slr1484	hypothetical protein	11.813	10.238	4.989	113.616

637009464	sll1401	hypothetical protein	2.718	4.924	2.986	4.077
637009467	sll1399	hypothetical protein	205.613	120.068	100.835	43.547
637009468	sll1398	photosystem II 13 kD protein	359.657	255.141	179.998	56.743
637009471	sll1396	hypothetical protein	22.896	23.752	17.569	20.129
637009479	slr1114	hypothetical protein	103.347	47.904	71.075	53.928
637009483	sll1064	hypothetical protein	28.57	17.598	15.158	26.831
637009487	sll1062	hypothetical protein	16.355	20.091	13.975	6.462
637009488	sll1061	hypothetical protein	9.318	13.737	7.73	3.846
637009490	ssl2069	hypothetical protein	64.056	46.88	43.637	127.222
637009491	ssr1853	hypothetical protein	157.413	89.071	70.375	108.669
637009497	slr1122	hypothetical protein	74.345	49.644	38.943	89.613
637009503	sll1052	hypothetical protein	59.531	47.255	25.011	26.869
637009506	slr1127	hypothetical protein	584.988	329.756	358.815	913.298
637009516	sll0710	hypothetical protein	4.094	16.443	6.525	3.01
637009520	slr0723	hypothetical protein	55.983	25.81	25.471	24.466
637009522	slr0725	hypothetical protein	2.471	8.701	2.327	5.492
637009523	slr0727	hypothetical protein	4.579	20.339	7.187	13.309
637009525	slr0729	hypothetical protein	262.636	115.269	109.217	431.556
637009526	slr0730	hypothetical protein	50.785	35.953	32.694	96.038
637009527	slr0731	hypothetical protein	149.708	122.911	58.14	162.768
637009531	sll0702	hypothetical protein	55.93	24.478	23.043	48.558
637009533	ssl1326	hypothetical protein	6.025	11.547	3.404	653.518
637009536	sll0699	transposase	207.022	399.18	179.979	472.841
637009538	slr0737	photosystem I subunit II	6288.474	1670.236	4306.241	129.014
637009541	slr0740	hypothetical protein	174.326	124.231	97.19	83.658
637009542	sll0696	hypothetical protein	15.736	16.239	13.461	21.859
637009550	slr0238	hypothetical protein	62.519	53.862	31.603	24.181
637009556	slr0243	hypothetical protein	31.873	32.762	22.256	3.759
637009559	sml0003	photosystem II reaction center protein PsbM	15.9	21.096	13.975	24.031

637009563	sll0226	photosystem I assembly protein Ycf4	287.72	261.038	179.87	283.792
637009564	sll0225	hypothetical protein	24.325	30.266	14.36	3.274
637009566	slr0249	hypothetical protein	85.175	54.905	35.936	224.317
637009570	ssr0390	photosystem I subunit X	3689.757	1698.013	2838.114	111.136
637009571	ssl0410	hypothetical protein	373.641	495.173	334.086	122.468
637009574	sgl0002	hypothetical protein	1415.003	1490.773	1027.05	487.514
637009575	sml0004	hypothetical protein	22.896	21.565	19.166	33.926
637009592	sll1321	hypothetical protein	8169.745	10309.305	6871.968	1892.444
637009595	slr1415	hypothetical protein	63.369	40.98	28.524	8.371
637009599	sll1318	hypothetical protein	8.727	8.955	7.252	2.738
637009611	slr1100	hypothetical protein	57.692	28.571	39.331	76.533
637009619	ssl2009	hypothetical protein	129.365	97.322	74.028	22.9
637009622	slr1107	hypothetical protein	43.735	33.88	33.756	14.638
637009631	slr1110	hypothetical protein	55.758	32.208	42.825	18.193
637009634	ssr2972	hypothetical protein	6.025	8.882	11.348	3.571
637009636	slr1774	hypothetical protein	28.818	24.539	20.446	7.897
637009638	sll1685	proton extrusion protein PcxA	2.615	1.571	1.915	0.258
637009640	slr1778	hypothetical protein	12.863	28.444	10.902	6.004
637009644	slr1780	hypothetical protein	70.911	123.846	52.027	7.975
637009655	slr1788	hypothetical protein	13.009	31.004	31.138	25.3
637009656	slr1789	hypothetical protein	8.111	27.615	23.642	18.336
637009659	sll1671	hypothetical protein	13.51	15.724	11.83	4.425
637009666	ssr2998	hypothetical protein	322.632	338.812	217.249	213.578
637009670	sll1667	mitochondrial outer membrane 72K protein	62.172	43.192	44.415	20.203
637009672	slr1796	hypothetical protein	86.712	101.232	67.069	17.635
637009673	sll1665	hypothetical protein	624.609	581.482	543.973	73.487
637009681	sll1658	hypothetical protein	12.24	5.13	6.102	4.481
637009682	slr1799	hypothetical protein	128.299	98.624	75.026	64.528
637009683	slr1800	hypothetical protein	48.88	98.605	30.687	17.153

637009684	sll1656	hypothetical protein	260.567	154.41	165.081	364.967
637009693	sll1200	hypothetical protein	62.79	56.901	54.454	25.315
637009698	ssl2384	hypothetical protein	357.264	236.176	314.13	9.651
637009701	sll1194	photosystem II complex extrinsic protein precursor F	1565.461	1686.175	2067.679	412.121
637009706	sll1191	hypothetical protein	23.745	23.961	26.885	153.42
637009707	ssr2153	hypothetical protein	12808.16	10429.441	46261.009	75710.022
637009709	slr1302	hypothetical protein	128.444	79.855	83.266	82.539
637009713	slr1306	hypothetical protein	293.98	211.769	188.701	187.115
637009719	slr1307	hypothetical protein	15.771	22.531	13.384	13.241
637009721	slr0962	hypothetical protein	186.573	244.735	162.764	220.269
637009723	sll0943	hypothetical protein	5.18	4.709	7.48	4.605
637009731	ssl1792	hypothetical protein	9.159	10.126	3.234	4.071
637009734	slr0971	hypothetical protein	103.085	61.981	75.609	53.591
637009736	sll0933	hypothetical protein	527.051	820.128	391.001	574.498
637009739	sll0931	hypothetical protein	140.733	129.173	93.845	73.902
637009740	sll0930	hypothetical protein	151.487	214.936	151.004	120.796
637009741	sll0928	allophycocyanin-B	2228.168	2029.194	2005.759	814.533
637009750	sll0922	hypothetical protein	24.462	15.146	18.122	4.784
637009753	slr0978	hypothetical protein	260.953	196.481	243.36	234.612
637009754	slr0980	hypothetical protein	120.843	122.278	138.254	46.295
637009760	slr1610	hypothetical protein	108.415	98.253	118.738	11.022
637009761	slr1611	hypothetical protein	63.686	94.256	118.279	88.634
637009764	slr1614	hypothetical protein	39.283	92.105	87.021	12.473
637009770	slr1062	hypothetical protein	126.325	253.393	202.604	93.442
637009776	slr1068	hypothetical protein	25.975	33.092	33.52	1.283
637009777	slr1069	hypothetical protein	3.318	22.217	20.832	0.369
637009782	slr1074	hypothetical protein	8.767	17.231	22.339	0.229
637009789	slr1079	hypothetical protein	158.194	75.007	116.084	53.973
637009792	slr1082	hypothetical protein	106.126	51.123	92.594	50.517

637009798	ssl1972	hypothetical protein	345.883	234.897	141.45	239.285
637009805	ssr1789	high light inducible protein	148.038	117.846	79.307	54.398
637009817	slr0680	hypothetical protein	223.281	197.692	200.069	60.994
637009821	sll0650	transposase	206.068	399.18	179.68	471.144
637009826	sll0645	hypothetical protein	114.482	84.383	80.856	47.112
637009831	sll0641	hypothetical protein	32.998	33.422	28.89	10.577
637009834	ssr1155	hypothetical protein	365.334	277.969	265.82	90.552
637009842	slr0695	hypothetical protein	246.072	214.03	181.125	269.359
637009843	slr1590	hypothetical protein	179.072	170.382	133.546	200.632
637009849	sll1516	hypothetical protein	24.362	17.732	8.452	21.088
637009850	slr1596	proton extrusion protein PcxA	18.951	18.943	15.075	2.654
637009851	sll1515	hypothetical protein	269.415	183.393	125.057	472.586
637009859	sll1509	hypothetical protein	42.671	26.849	21.235	39.323
637009861	slr1600	hypothetical protein	315.972	317.656	216.095	228.66
637009862	smr0005	photosystem I PsaM subunit	318.404	395.547	379.574	192.423
637009863	slr1601	hypothetical protein	393.42	360.973	276.079	44.831
637009865	sll1507	hypothetical protein	72.338	48.219	48.375	58.718
637009866	slr1603	hypothetical protein	84.369	52.237	60.79	376.645
637009868	ssr2699	transposase	22.069	21.689	16.886	48.436
637009871	ssl2920	hypothetical protein	6.273	13.101	5.415	7.668
637009876	ssr2708	hypothetical protein	14.84	8.855	13.975	35.811
637009877	ssr2711	hypothetical protein	18.856	12.575	9.724	26.342
637009894	slr1052	hypothetical protein	108.457	104.122	68.089	47.02
637009895	slr1053	hypothetical protein	152.928	127.205	98.824	20.697
637009896	sll1009	iron-regulated protein	422.154	498.936	1802.261	101.863
637009899	sll1006	hypothetical protein	28.151	28.896	21.994	26.418
637009903	ssl1923	hypothetical protein	19.44	27.066	24.409	4.801
637009904	ssl1922	transposase	10.903	18.417	15.401	44.225
637009908	ssl1918	hypothetical protein	170.556	88.115	74.805	52.966

637009918	slr1763	hypothetical protein	91.072	123.173	64.075	31.472
637009919	sll1642	hypothetical protein	4.188	8.404	5.478	0.931
637009926	sll1638	hypothetical protein	1589.78	1508.212	1342.567	165.558
637009929	slr1770	hypothetical protein	370.024	114.52	499.253	44.073
637009932	sml0005	photosystem II reaction center protein PsbK precurs	243.897	163.875	196.867	100.671
637009939	sll1751	hypothetical protein	43.953	45.708	35.936	9.996
637009941	sll1749	hypothetical protein	206.36	179.516	145.117	105.019
637009942	sll1749a	hypothetical protein	102.361	95.634	92.165	107.166
637009944	ssr3129	hypothetical protein	11.079	16.332	16.809	73.05
637009946	slr2032	hypothetical protein	1298.387	625.928	682.927	302.062
637009950	ssr3451	cytochrome b559 subunit alpha	2459.977	2714.331	1830.543	507.646
637009951	smr0006	cytochrome b559 subunit beta	1824.087	2115.834	1588.369	330.211
637009952	smr0007	photosystem II reaction center L	3259.888	2858.486	2157.954	622.114
637009953	smr0008	photosystem II reaction center protein PsbJ	2927.889	2847.938	1848.905	590.309
637009957	slr2037	hypothetical protein	0.761	3.271	1.91	0.338
637009959	sll1942	hypothetical protein	189.906	150.787	128.242	22.95
637009963	sll1940	hypothetical protein	106.512	57.502	66.868	30.92
637009964	sll1939	hypothetical protein	152.288	105.577	108.309	54.676
637009965	ssr3465	hypothetical protein	241.844	135.717	136.107	38.803
637009971	ssr3467	hypothetical protein	25.043	37.797	48.289	102.838
637009972	slr2046	Fat protein	49.496	91.165	68.07	61.605
637009975	slr2049	hypothetical protein	186.256	203.016	165.343	23.994
637009976	slr2051	phycobilisome rod-core linker polypeptide; CpcG	8085.082	4900.194	7155.366	409.697
637009977	slr2052	hypothetical protein	839.283	491.625	503.103	25.7
637009978	sll1934	hypothetical protein	130.618	75.322	92.131	20.151
637009986	slr1907	hypothetical protein	40.069	28.597	35.936	67.286
637009987	slr1908	hypothetical protein	4828.956	5016.581	5013.855	7213.986
637009990	slr1911	hypothetical protein	112.881	59.599	57.799	25.978
637009993	slr1913	hypothetical protein	63.062	45.529	45.986	6.9

637009994	slr1914	hypothetical protein	45.216	32.146	37.144	32.928
637009997	slr1915	hypothetical protein	97.038	184.572	92.749	324.234
637010000	slr1918	hypothetical protein	336.948	277.593	223.148	268.888
637010002	sll1832	hypothetical protein	90.538	103.871	105.459	40.578
637010004	sll1830	hypothetical protein	213.977	194.701	96.997	25.373
637010006	slr1920	hypothetical protein	10.549	34.607	23.373	18.618
637010008	ssl1911	hypothetical protein	294.879	270.623	206.904	316.127
637010011	sll0997	hypothetical protein	73.281	59.347	43.735	23.627
637010016	sll0994	hypothetical protein	63.177	42.817	37.134	38.449
637010019	slr1023	hypothetical protein	9.813	26.788	15.743	1.454
637010020	slr1024	hypothetical protein	24.608	19.19	17.464	8.561
637010021	slr1025	hypothetical protein	15.197	18.42	8.586	7.205
637010025	slr1028	integrin alpha-subunit domain-like protein	14.869	22.337	28.863	7.391
637010028	slr1032	hypothetical protein	25.225	50.773	21.927	6.469
637010029	slr1033	hypothetical protein	4.248	8.995	5.651	1.978
637010032	slr1035	hypothetical protein	97.57	98.927	103.316	20.529
637010035	sll0984	hypothetical protein	7.683	6.418	6.03	5.806
637010038	sll0982	hypothetical protein	350.547	233.308	194.444	123.474
637010039	sll0981	hypothetical protein	36.552	26.433	24.246	31.576
637010042	slr1376	hypothetical protein	379.545	194.107	214.644	491.465
637010050	ssr2315	hypothetical protein	125.613	137.514	55.401	16.963
637010051	slr1383	hypothetical protein	70.937	72.476	46.077	108.958
637010052	ssr2317	hypothetical protein	101.902	80.365	68.713	244.378
637010055	ssr2318	hypothetical protein	7.806	11.507	7.351	3.47
637010066	slr1391	hypothetical protein	58.335	43.177	38.225	142.294
637010069	ssl2542	high light-inducible protein	16.124	29.712	9.617	972.619
637010073	slr1395	hypothetical protein	16.582	11.831	8.509	5.245
637010074	slr1396	hypothetical protein	48.905	80.97	68.906	9.387
637010075	slr1397	hypothetical protein	186.034	224.887	220.972	1426.596

637010076	slr1398	hypothetical protein	25.086	29.697	21.762	54.133
637010080	slr1699	hypothetical protein	30.34	30.911	20.063	13.666
637010085	ssr2843	hypothetical protein	39.028	33.242	37.569	30.649
637010086	slr1702	hypothetical protein	99.945	85.053	58.325	15.145
637010088	ssl3093	phycocyanin associated linker protein	1943.476	2777.284	2455.196	596.73
637010089	sll1580	phycocyanin associated linker protein	7199.849	6721.577	8036.978	2841.227
637010090	sll1579	phycocyanin associated linker protein	8521.005	7484.659	8634.728	3179.243
637010091	sll1578	phycocyanin a subunit	65361.763	53819.666	52791.903	10762.488
637010092	sll1577	phycocyanin b subunit	56170.525	46689.519	44675.663	9840.047
637010093	ssr2848	hypothetical protein	12.546	13.101	12.307	45.312
637010094	slr1704	hypothetical protein	442.943	132.456	186.475	664.329
637010097	sll1573	hypothetical protein	121.024	86.526	84.877	93.538
637010100	ssr2857	hypothetical protein	91.586	114.675	72.978	143.271
637010103	sll1571	hypothetical protein	182.662	100.06	136.763	67.581
637010104	sll1570	hypothetical protein	81.17	41.846	41.827	16.685
637010106	sll1568	fibrillin	58.651	46.279	44.787	53.897
637010108	sll1926	hypothetical protein	286.99	189.188	221.277	24.05
637010115	slr2010	hypothetical protein	83.022	155.669	95.463	129.747
637010116	ssr3409	hypothetical protein	85.278	179.673	101.207	120.99
637010117	ssr3410	hypothetical protein	97.137	165.357	111.438	125.423
637010124	slr2017	hypothetical protein	44.715	47.061	57.537	3.665
637010125	slr2018	hypothetical protein	50.086	75.91	88.762	12.341
637010127	sll1921	hypothetical protein	124.477	133.719	151.159	211.834
637010131	slr2025	hypothetical protein	530.039	427.761	308.489	147.709
637010134	sll1915	hypothetical protein	153.68	103.033	91.598	466.019
637010139	ssl3615	hypothetical protein	43.383	58.624	39.719	54.638
637010140	sll1911	hypothetical protein	64.785	117.308	24.514	112.034
637010146	slr1135	hypothetical protein	1.119	3.418	1.104	2.132
637010164	slr1146	hypothetical protein	4675.973	3777.561	3933.39	2644.515

637010166	slr1148	hypothetical protein	6.057	5.209	6.845	1.346
637010168	slr1150	hypothetical protein	176.745	148.37	138.28	321.105
637010170	sll1071	hypothetical protein	78.81	100.791	36.717	161.516
637010174	sll1068	hypothetical protein	34.186	33.402	22.21	4.241
637010175	ssl3451	hypothetical protein	82.372	67.232	54.342	8.688
637010180	ssl3446	hypothetical protein	38.161	48.286	14.973	428.313
637010212	sll1797	ycf21 gene product	44.975	36.968	24.128	319.508
637010214	slr1896	hypothetical protein	20.1	41.225	20.025	95.562
637010219	slr1900	hypothetical protein	93.709	94.478	61.874	42.681
637010230	sll1123	hypothetical protein	28.064	14.885	16.22	34.85
637010235	slr1195	hypothetical protein	51.702	72.588	44.978	37.099
637010236	slr1196	hypothetical protein	101.171	89.616	53.57	52.782
637010239	ssr2009	hypothetical protein	7.548	6.182	3.554	2.237
637010245	slr1203	hypothetical protein	43.127	62.999	43.074	21.61
637010248	slr1206	hypothetical protein	59.941	47.366	34.41	96.016
637010250	ssr2016	hypothetical protein	19.08	17.473	6.534	330.005
637010253	slr1210	hypothetical protein	7.926	15.795	8.293	1.566
637010258	slr1215	hypothetical protein	75.466	57.391	66.393	40.391
637010262	slr2070	hypothetical protein	175.941	127.809	92.299	44.282
637010263	slr2071	hypothetical protein	53.001	36.722	38.265	118.74
637010275	ssl3712	hypothetical protein	16.162	25.15	10.992	5.388
637010285	slr1826	hypothetical protein	65.303	44.173	22.523	65.582
637010287	sll1739	hypothetical protein	38.797	50.943	43.323	66.297
637010288	sll1738	hypothetical protein	107.081	90.445	68.774	49.134
637010289	sll1737	hypothetical protein	80.351	114.433	91.068	27.499
637010291	slr1829	hypothetical protein	114.828	85.828	65.358	22.754
637010293	sll1736	hypothetical protein	177.984	230.296	139.533	288.634
637010295	sll1734	hypothetical protein	31.536	106.391	26.619	135.821
637010298	sll1730	hypothetical protein	57.513	35.993	48.198	36.177

637010299	slr1834	P700 apoprotein subunit Ia	27611.436	19372.712	30019.33	4375.75
637010300	slr1835	P700 apoprotein subunit Ib	26522.866	17158.755	27814.331	4555.371
637010301	sll1726	hypothetical protein	13.53	9.035	6.207	38.244
637010311	slr1841	hypothetical protein	7956.078	12053.223	8886.717	3872.621
637010315	sll1717	hypothetical protein	14.758	16.371	12.634	6.063
637010318	sll1714	hypothetical protein	13.67	13.014	11.264	19.368
637010321	sll1469	hypothetical protein	22.416	8.261	25.884	33.807
637010322	slr1535	hypothetical protein	113.548	33.753	264.019	231.18
637010327	slr1541	hypothetical protein	75.96	105.179	55.522	43.412
637010331	ssr2595	high light inducible protein	37.086	78.045	16.196	4888.897
637010332	slr1544	hypothetical protein	51.737	57.608	27.298	3615.543
637010345	ssr2611	hypothetical protein	112.748	134.246	57.715	202.784
637010348	sll1456	hypothetical protein	74.81	76.864	44.001	13.1
637010350	sll1455	hypothetical protein	14.677	21.997	10.136	16.963
637010364	slr1218	hypothetical protein	142.563	98.182	84.303	16.643
637010366	slr1220	hypothetical protein	210.605	189.553	138.207	481.202
637010367	slr1222	hypothetical protein	30.373	36.882	17.235	23.627
637010380	slr1232	hypothetical protein	99.772	46.827	60.429	31.841
637010381	ssr2047	hypothetical protein	67.649	110.913	70.238	47.997
637010383	ssr2049	protochlorophillide reductase 57 kD subunit	34.072	40.517	20.535	14.54
637010388	sll1132	hypothetical protein	29.803	58.464	37.792	16.402
637010389	sll1131	hypothetical protein	92.066	131.984	98.258	56.227
637010391	sll1130	hypothetical protein	1664.93	1055.762	561.035	744.028
637010392	ssl2245	hypothetical protein	1686.365	1234.778	679.149	1081.813
637010394	ssr2060	hypothetical protein	31.483	41.84	37.733	22.264
637010397	ssr2062	hypothetical protein	617.434	203.215	312.118	175.537
637010400	slr1240	hypothetical protein	61.057	65.788	52.107	9.895
637010405	slr1436	hypothetical protein	4.031	11.291	3.796	8.063
637010406	slr1437	hypothetical protein	111.443	71.937	81.094	27.471

637010409	ssr2406	hypothetical protein	105.324	81.758	65.164	155.38
637010415	slr1441	hypothetical protein	3.523	4.327	3.041	12.526
637010420	ssr2422	hypothetical protein	33.671	21.509	20.293	15.566
637010427	slr1450	hypothetical protein	71.96	58.934	63.658	31.018
637010432	sll1281	photosystem II reaction center protein PsbZ	1036.702	686.266	542.034	848.145
637010440	slr1362	hypothetical protein	50.406	70.319	38.35	43.293
637010441	sll1274	hypothetical protein	82.534	38.43	42.622	63.907
637010446	sll1273	hypothetical protein	30.609	73.251	44.334	22.284
637010447	sll1272	hypothetical protein	37.864	57.678	38.733	23.365
637010448	sll1271	hypothetical protein	46.952	61.655	40.012	10.124
637010450	ssl2501	hypothetical protein	249.317	134.076	270.318	268.579
637010454	sll1268	hypothetical protein	85.088	83.406	80.821	74.27
637010455	sll1267	hypothetical protein	999.542	727.467	616.931	132.517
637010456	sll1265	hypothetical protein	79.947	50.187	38.496	34.817
637010457	sll0877	hypothetical protein	53.108	53.671	41.283	195.871
637010468	ssl1633	CAB/ELIP/HLIP superfamily	49.985	42.39	42.516	635.75
637010469	slr0881	hypothetical protein	140.901	101.693	92.604	182.514
637010470	sll0872	hypothetical protein	64.669	56.685	68.031	8.158
637010473	sll0871	hypothetical protein	61.644	47.207	43.978	101.777
637010481	slr0888	hypothetical protein	279.093	149.294	312.792	14.755
637010483	ssr1499	hypothetical protein	2.544	3.75	0.799	3.958
637010484	slr0890	hypothetical protein	9.54	9.163	10.073	5.397
637010488	sll0863	hypothetical protein	35.028	28.967	18.504	59.623
637010491	sll0860	hypothetical protein	87.507	110.41	57.002	132.779
637010492	sll1317	apocytochrome f precursor	1027.906	786.723	559.465	760.701
637010494	ssl2598	photosystem II reaction center protein PsbH	2462.254	1676.849	1778	563.69
637010495	smr0009	photosystem II PsbN protein	41.63	44.749	35.936	54.358
637010497	sll1315	hypothetical protein	21.405	28.287	26.876	1.153
637010499	slr1403	integrin alpha- and beta4- subunit domain-like prote	45.459	17.015	33.042	24.491

637010502	slr1407	hypothetical protein	75.795	82.444	59.604	2.983
637010509	sll1785	hypothetical protein	435.374	327.495	402.376	20.053
637010510	sll1784	hypothetical protein	393.854	320.321	384.837	10.254
637010512	slr1852	hypothetical protein	1344.715	612.858	802.189	10.77
637010521	slr1862	hypothetical protein	7.795	12.089	8.105	1.516
637010523	slr1863	hypothetical protein	5.193	6.214	3.969	0.703
637010526	slr1866	hypothetical protein	6.512	10.864	6.24	1.219
637010531	slr1869	hypothetical protein	164.71	128.743	100.422	24.941
637010538	sll1769	hypothetical protein	247.325	189.199	97.637	219.397
637010539	ssl3383	hypothetical protein	305.706	217.295	181.259	46.415
637010540	ssl3382	hypothetical protein	126.125	115.372	87.099	24.151
637010550	sll1765	hypothetical protein	206.784	212.892	176.535	106.866
637010551	sll1764	hypothetical protein	549.516	368.183	295.171	227.42
637010552	sll1763	hypothetical protein	336.663	314.406	232.386	42.596
637010557	slr1880	hypothetical protein	23.321	42.861	19.774	12.251
637010562	sll1757	hypothetical protein	238.342	293.662	173.425	398.599
637010563	ssr3188	hypothetical protein	90.314	82.196	59.893	240.308
637010564	ssl3364	hypothetical protein	2915.487	3182.94	1695.219	5299.208
637010566	ssr3189	hypothetical protein	1167.312	1465.658	1033.159	3807.564
637010569	sll1755	hypothetical protein	43.492	38.331	26.423	10.976
637010573	sll2015	hypothetical protein	55.287	51.316	37.689	127.098
637010575	sll2013	hypothetical protein	89.366	74.051	57.571	171.879
637010584	sll2006	hypothetical protein	52.912	43.492	30.5	50.889
637010586	ssl3829	hypothetical protein	81.203	95.177	55.158	17.16
637010587	sml0007	ycf32 gene product	228.965	146.968	138.353	22.9
637010591	sll2002	hypothetical protein	57.046	48.48	27.596	14.589
637010592	slr2144	hypothetical protein	145.188	118.286	86.746	64.369
637010601	sll1702	hypothetical protein	83.686	63	64.306	61.304
637010604	slr1809	hypothetical protein	92.963	40.077	48.23	98.716

637010606	sll1698	hypothetical protein	45.973	46.289	40.463	78.537
637010608	slr1811	hypothetical protein	27.905	37.797	42.225	52.479
637010609	slr1812	hypothetical protein	33.121	42.103	38.874	28.165
637010610	slr1813	hypothetical protein	48.321	58.813	53.671	90.873
637010611	slr1814	hypothetical protein	38.407	62.063	54.252	50.889
637010614	sll1696	hypothetical protein	20.277	28.647	21.88	9.013
637010618	slr1818	hypothetical protein	24.937	18.659	16.901	14.612
637010619	sll1692	hypothetical protein	187.406	238.894	180.172	59.602
637010628	slr1732	hypothetical protein	158.749	62.256	56.06	74.637
637010630	sll1630	hypothetical protein	8.868	6.735	5.314	2.15
637010640	slr1737	hypothetical protein	37.741	28.437	26.656	15.239
637010644	slr1739	photosystem II protein	56.776	23.097	31.554	227.965
637010647	sll1618	hypothetical protein	99.674	43.941	62.039	18.988
637010654	slr0852	hypothetical protein	126.491	148.704	98.258	323.837
637010658	sll0857	hypothetical protein	68.36	52.208	43.692	30.021
637010661	sll0854	hypothetical protein	64.095	73.278	40.704	59.782
637010662	sll0853	hypothetical protein	119.38	172.678	80.712	208.453
637010663	slr0856	transposase	191.758	377.615	168.3	465.207
637010665	sll0851	photosystem II CP43 protein	7821.355	6299.196	7196.308	2461.807
637010666	sll0849	photosystem II D2 protein	8123.066	6824.693	7010.158	6652.722
637010674	sll0843	hypothetical protein	21.896	16.831	22.975	53.391
637010678	sll0839	hypothetical protein	48.568	34.947	26.861	95.609
637010681	slr0867	hypothetical protein	4.792	4.448	4.346	3.55
637010682	slr0868	hypothetical protein	13.469	11.858	7.751	4.989
637010684	slr0870	hypothetical protein	6.623	12.32	15.444	4.206
637010685	slr0871	hypothetical protein	3.578	6.153	6.457	1.193
637010686	slr0872	hypothetical protein	27.623	22.547	10.501	12.006
637010689	sll1164	hypothetical protein	5.233	6.911	4.62	0.727
637010691	sll1162	hypothetical protein	10.187	9.416	8.375	0.863

637010693	sll1160	hypothetical protein	23.465	28.128	23.436	9.798
637010695	sll1158	hypothetical protein	10.707	12.141	10.083	2.197
637010701	sll1155	hypothetical protein	303.278	187.765	179.68	173.2
637010710	ssr2087	hypothetical protein	160.275	113.504	164.037	11.375
637010712	slr1253	hypothetical protein	356.531	176.535	198.846	236.511
637010715	sll1147	glutathione S-transferase	83.788	54.625	49.998	66.745
637010721	slr1260	hypothetical protein	214.815	50.725	81.159	522.61
637010724	slr1263	hypothetical protein	56.147	30.099	24.186	11.02
637010726	sll1960	hypothetical protein	90.124	79.596	43.837	45.114
637010733	slr2060	hypothetical protein	31.937	23.842	16.58	18.565
637010735	sll1954	hypothetical protein	157.555	105.41	78.098	44.843
637010736	ssl3692	hypothetical protein	10.407	7.671	9.438	1.028
637010738	sll1951	hemolysin	3351.142	9780.734	8250.272	2379.762
637010739	sll1950	hypothetical protein	159.808	87.254	90.647	194.208
637010740	sll1949	hypothetical protein	906.166	400.14	374.864	203.76
637010741	slr2067	allophycocyanin a chain	18880.42	14154.005	13602.203	954.634
637010742	slr1986	allophycocyanin b chain	18330.622	14799.381	14036.54	890.552
637010743	ssr3383	phycobilisome LC linker polypeptide	4446.297	2732.945	2836.298	220.767
637010746	slr1990	hypothetical protein	247.491	156.162	97.817	343.974
637010751	sll1906	44.5 kD bacteriochlorophyll synthase subunit	187.185	159.313	113.958	88.662
637010755	slr2000	hypothetical protein	11.733	8.997	11.049	6.796
637010758	slr2003	hypothetical protein	99.218	54.246	56.129	80.21
637010760	ssr3402	hypothetical protein	49.57	93.373	80.763	59.283
637010761	slr2004	hypothetical protein	53.505	139.395	109.397	58.174
637010765	sll1613	hypothetical protein	32.149	35.063	18.953	5.577
637010768	slr1715	transposase	207.022	398.946	179.38	472.841
637010778	slr1721	hypothetical protein	72.451	85.867	45.776	22.915
637010782	slr1724	hypothetical protein	156.387	124.081	102.926	34.566
637010788	sll1596	circadian rhythm protein	10.503	18.064	15.495	10.271

637010790	slr1726	hypothetical protein	43.703	27.778	23.411	41.175
637010797	ssr2912	hypothetical protein	26.624	25.511	50.143	6.509
637010802	sll0253	hypothetical protein	152.643	55.787	69.676	51.737
637010804	ssl0467	hypothetical protein	427.719	359.801	240.571	57.25
637010807	slr0262	hypothetical protein	248.469	254.817	185.536	200.539
637010808	slr0263	hypothetical protein	54.996	43.019	36.993	20.455
637010812	ssl0461	hypothetical protein	332.544	264.87	219.466	243.539
637010815	sll0247	iron-stress chlorophyll-binding protein	13.017	33.048	14.353	574.018
637010819	slr0269	hypothetical protein	26.903	21.377	19.585	55.978
637010820	slr0270	hypothetical protein	105.923	78.337	40.974	171.69
637010821	ssl0453	phycobilisome degradation protein; NblA	110.729	79.311	110.753	222.742
637010822	ssl0452	phycobilisome degradation protein; NblA	27.258	23.663	34.795	390.147
637010823	slr0271	hypothetical protein	4.632	2.601	3.947	3.53
637010824	slr0272	hypothetical protein	3.863	1.984	2.976	4.839
637010825	slr0273	hypothetical protein	62.117	49.246	49.993	33.872
637010826	sll0243	hypothetical protein	11.805	9.376	8.532	4.393
637010827	sll0242	hypothetical protein	16.865	10.858	12.288	11.655
637010835	ssr3532	hypothetical protein	18.374	22.572	13.753	5.654
637010849	sll1983	transposase	207.022	399.18	179.979	472.841
637010853	ssl3769	hypothetical protein	48.846	53.255	97.746	753.152
637010855	sll1979	hypothetical protein	246.578	267.509	136.456	207.469
637010871	ssl2789	resolvase	69.962	80.867	54.403	19.79
637010875	sll1426	hypothetical protein	300.425	244.55	181.969	972.071
637010877	slr1505	hypothetical protein	118.509	57.245	71.691	7.927
637010880	ssl2781	hypothetical protein	182.069	175.206	115.168	34.948
637010887	sll1418	hypothetical protein	187.17	126.947	110.47	101.508
637010889	slr1513	hypothetical protein	266.094	726.761	289.43	76.104
637010891	sll1414	hypothetical protein	75.53	95.121	52.487	82.773
637010892	ssr2549	hypothetical protein	20.085	17.271	18.283	24.998

637010894	ssr2551	hypothetical protein	63.869	46.189	29.505	33.747
637010897	ssr2554	hypothetical protein	712.621	499.979	337.959	133.797
637010904	slr1524	transposase	177.048	347.018	152.937	396.162
637010909	ssr3570	hypothetical protein	59.088	69.412	41.152	44.322
637010915	sll1997	transposase	16.145	39.667	13.822	17.942
637010916	slr2110	hypothetical protein	1.004	1.727	2.207	1.786
637010918	slr2112	transposase	203.206	398.477	178.182	470.72
637010921	slr2115	hypothetical protein	2.627	7.583	3.779	1.849
637010923	slr2117	hypothetical protein	6.29	10.973	4.146	0.559
637010925	slr2119	hypothetical protein	22.158	16.131	15.972	11.309
637010931	slr2125	hypothetical protein	20.304	32.586	21.155	9.794
637010933	slr2127	hypothetical protein	4.77	2.93	4.679	2.12
637010934	slr2128	hypothetical protein	11.372	8.382	10.947	4.381
637010937	sll1994a	cytochrome b6f complex subunit PetL	3.469	6.819	3.267	1.542
637010940	sll1241	hypothetical protein	12.67	26.349	19.459	8.649
637010941	sll1240	hypothetical protein	5.797	14.954	11.827	8.696
637010942	sll1239	hypothetical protein	26.222	69.612	63.239	15.636
637010946	ssr2194	hypothetical protein	6.938	8.097	10.345	47.805
637010947	sll1236	hypothetical protein	18.782	25.491	9.826	23.457
637010950	ssr2201	hypothetical protein	6.273	10.789	6.4	2.091
637010963	ssl2420	hypothetical protein	20.203	21.84	14.797	2.395
637010969	ssr2227	transposase	4.77	4.102	12.727	1.06
637010971	sll1219	hypothetical protein	252.071	345.275	220.231	106.446
637010974	ssr1375	hypothetical protein	1047.955	640.881	729.223	84.554
637010977	sml0008	photosystem I reaction center subunit IX	5629.187	5312.035	8577.299	249.479
637010978	sll0819	photosystem I subunit III	7553.084	4823.407	9237.705	247.699
637010982	slr0810	hypothetical protein	60.103	72.195	52.107	37.318
637010984	ssl1520	hypothetical protein	60.254	27.758	35.463	68.298
637010992	sll0812	hypothetical protein	25.275	16.986	27.535	3.304

637010993	ssr1386	NADH dehydrogenase subunit; NdhL	220.485	151.404	144.187	157.064
637010994	slr0815	hypothetical protein	167.97	134.875	124.303	115.959
637010997	sll0810	hypothetical protein	39.181	67.838	49.772	17.416
637011001	slr0818	hypothetical protein	40.525	20.909	21.228	6.417
637011003	ssr1391	hypothetical protein	18.268	15.56	13.38	4.331
637011006	sll0808	transposase	46.641	77.389	35.175	90.2
637011012	sll0803	hypothetical protein	27.19	46.235	34.813	8.587
637011013	sll0802	hypothetical protein	66.524	85.524	57.789	31.634
637011014	ssl1498	hypothetical protein	583.491	306.23	370.952	57.455
637011016	sll1262	hypothetical protein	585.133	529.74	322.98	134.447
637011023	sll1256	transposase	207.022	399.18	179.979	472.841
637011024	slr1338	hypothetical protein	58.665	61.713	47.378	14.178
637011025	slr1339	hypothetical protein	35.916	37.504	33.822	6.652
637011035	ssl2471	hypothetical protein	0	0.521	1.331	0.942
637011042	sll1247	hypothetical protein	29.745	29.295	27.854	69.111
637011046	slr1353	hypothetical protein	23.916	23.793	19.691	17.602
637011048	slr1956	hypothetical protein	39.043	33.331	31.158	8.53
637011049	slr1957	hypothetical protein	185.098	116.191	238.789	32.34
637011050	slr1958	hypothetical protein	128.152	103.695	112.635	56.459
637011057	ssl3573	hypothetical protein	9.641	3.849	7.565	5.892
637011060	slr1963	hypothetical protein	302.407	628.364	595.881	684.117
637011061	slr1964	hypothetical protein	222.181	211.479	144.809	181.691
637011065	sll1892	hypothetical protein	274.022	185.711	153.125	104.639
637011067	sll1891	hypothetical protein	331.682	186.777	249.421	72.411
637011070	ssr3341	hypothetical protein	103.195	88.345	78.958	140.481
637011071	slr1970	hypothetical protein	130.273	76.139	67.741	141.26
637011074	ssl3549	hypothetical protein	258.701	191.78	178.746	220.738
637011076	sll1886	hypothetical protein	156.278	133.198	134.047	275.445
637011077	sll1885	hypothetical protein	66.849	61.376	50.973	10.948

637011079	sll1884	hypothetical protein	49.762	59.856	30.665	46.546
637011086	slr1977	hypothetical protein	44.391	34.901	22.002	76.852
637011092	sll1874	phytochrome-regulated gene	4.146	4.153	3.103	0.284
637011093	sll1873	hypothetical protein	878.325	285.428	476.004	52.974
637011102	sll1867	photosystem II D1 protein	39376.578	34104.197	25267.456	68764.988
637011105	ssl2717	hypothetical protein	48.373	53.482	37.454	143.348
637011106	sll1389	hypothetical protein	17.566	14.734	11.408	53.312
637011109	smr0010	cytochrome b6-f complex subunit V	70.451	64.91	65.422	48.279
637011110	sll1387	hypothetical protein	115.38	70.264	75.254	137.3
637011114	smr0011	50S ribosomal protein L34	136.881	200.563	80.465	82.971
637011116	slr1470	hypothetical protein	992.181	1175.827	696.123	617.218
637011124	sll1381	hypothetical protein	60.56	91.925	51.3	20.282
637011125	sll1380	hypothetical protein	82.001	54.162	47.135	22.959
637011128	sll1378	hypothetical protein	51.726	67.282	39.159	44.126
637011133	sll1373	hypothetical protein	14.31	20.79	13.281	25.168
637011143	slr1266	hypothetical protein	137.871	107.521	85.396	53.351
637011148	slr1272	hypothetical protein	1160.538	862.806	675.173	237.281
637011149	slr1273	hypothetical protein	1019.439	729.409	588.176	129.818
637011152	slr1276	hypothetical protein	304.457	378.604	210.147	33.004
637011154	sll1174	hypothetical protein	9.575	19.843	10.846	4.626
637011155	sll1173	hypothetical protein	12.149	27.898	8.801	3.323
637011161	slr1282	transposase	70.598	103.37	37.433	217.549
637011167	ssr2130	hypothetical protein	272.577	257.168	134.047	149.435
637011168	slr1287	hypothetical protein	22.421	44.237	11.09	45.15
637011169	slr1288	hypothetical protein	161.45	115.54	97.488	231.478
637011171	sll1447	hypothetical protein	108.172	110.075	62.534	20.035
637011175	sll1442	hypothetical protein	14.804	25.46	21.995	13.161
637011180	sll1439	hypothetical protein	2.563	6.507	2.145	0
637011183	sll1436	transposase	207.022	399.18	179.979	472.841

637011188	slr1533	hypothetical protein	30.594	16.004	13.941	21.496
637011191	ssl2162	hypothetical protein	100.172	105.87	55.401	407.816
637011202	slr1160	hypothetical protein	247.952	334.24	145.321	127.842
637011208	ssl2148	hypothetical protein	123.734	122.739	90.384	121.824
637011216	slr1168	hypothetical protein	68.249	108.995	73.945	44.528
637011217	slr1169	hypothetical protein	20.927	16.937	20.48	6.566
637011220	sll1089	hypothetical protein	186.168	185.196	118.051	112.478
637011222	sll1086	hypothetical protein	237.037	66.353	223.218	700.046
637011224	ssr1951	hypothetical protein	223.144	129.674	157.144	37.951
637011228	slr1670	hypothetical protein	17.315	25.779	35.977	623.875
637011231	slr1674	hypothetical protein	150.686	207.472	158.794	545.857
637011233	slr1676	hypothetical protein	257.586	235.999	174.421	142.426
637011240	ssr2803	hypothetical protein	17.718	23.775	16.257	20.598
637011241	ssr2806	hypothetical protein	78.23	46.88	44.321	15.267
637011242	sll1563	hypothetical protein	11.326	35.249	14.26	5.414
637011243	sll1562	hypothetical protein	22.158	59.159	24.807	8.536
637011245	slr1681	hypothetical protein	47.79	37.942	47.355	33.926
637011249	slr1684	transposase	2.274	3.353	1.666	4.381
637011258	ssr2831	photosystem I reaction center subunit IV	9653.162	4219.168	8128.234	358.256
637011264	slr1694	activator of photopigment and puc expression	170.586	193.914	83.295	18.536
637011271	slr0937	hypothetical protein	174.463	186.532	102.564	47.845
637011279	sll0914	hypothetical protein	8.806	16.936	7.816	0.945
637011284	slr0948	hypothetical protein	189.214	136.602	97.992	117.327
637011289	sll0911	hypothetical protein	7.1	25.729	9.75	12.229
637011298	slr0957	hypothetical protein	157.413	169.308	108.153	144.837
637011302	slr0960	hypothetical protein	24.143	31.955	35.691	53.658
637011307	slr1623	hypothetical protein	212.074	333.845	170.549	45.049
637011308	slr1624	hypothetical protein	201.28	179.368	120.178	29.935
637011319	slr1634	hypothetical protein	6828.65	2666.964	6305.754	4669.138

637011320	sll1532	hypothetical protein	222.485	189.066	132.895	94.816
637011325	slr1638	hypothetical protein	203.524	293.779	182.342	623.858
637011327	sll1531	hypothetical protein	30.453	59.581	28.029	1.755
637011333	ssl2971	hypothetical protein	177.448	196.613	125.416	126.204
637011338	slr1645	photosystem II 11 kD protein	797.168	605.781	400.052	567.259
637011343	slr1649	hypothetical protein	200.49	108.799	80.081	48.047
637011347	slr0442	hypothetical protein	62.479	94.081	90.956	77.081
637011350	ssr0759	hypothetical protein	15.741	27.776	20.663	37.53
637011352	sll0427	photosystem II manganese-stabilizing polypeptide	2843.328	2526.898	2424.174	481.314
637011353	slr0443	hypothetical protein	85.408	133.272	39.644	14.136
637011355	sll0426	hypothetical protein	347.232	135.06	159.187	117.759
637011358	sll0423	hypothetical protein	20.548	17.67	26.722	14.679
637011364	sll0419	hypothetical protein	48.747	51.174	28.517	29.548
637011371	sll0272	hypothetical protein	205.054	140.283	109.4	38.65
637011375	sll0269	hypothetical protein	124.437	83.772	64.06	79.652
637011378	sll0266	hypothetical protein	14.414	12.804	12.443	1.848
637011379	sll0265	hypothetical protein	10.235	9.78	5.474	5.392
637011381	sll0263	hypothetical protein	55.81	79.93	41.326	11.026
637011386	slr0286	hypothetical protein	1.877	3.294	2.272	0.358
637011391	slr0291	hypothetical protein	20.528	30.65	26.27	4.562
637011392	sll0258	cytochrome c550	2374.267	1079.338	1423.6	213.037
637011393	ssl0483	hypothetical protein	961.994	688.081	731.592	381.285
637011397	slr0294	hypothetical protein	26.474	67.682	27.85	9.86
637011398	slr0392	hypothetical protein	4.336	30.472	10.345	3.084
637011400	sll0364	hypothetical protein	9.813	6.63	7.957	5.452
637011404	sll0361	hypothetical protein	26.251	37.086	17.167	30.793
637011405	sll0360	hypothetical protein	77.42	76.795	41.753	159.439
637011406	sll0359	hypothetical protein	1374.523	1202.282	1273.884	1565.479
637011407	slr0397	hypothetical protein	59.626	38.383	44.171	87.73

637011408	slr0398	hypothetical protein	259.352	184.393	154.835	158.006
637011416	ssr0657	hypothetical protein	67.755	43.053	49.504	82.045
637011419	sll0354	hypothetical protein	102.665	130.477	67.931	44.651
637011422	slr0408	integrin alpha subunit domain-like protein	21.997	13.347	9.591	8.069
637011426	slr0145	hypothetical protein	300.83	148.441	243.683	94.72
637011427	slr0146	hypothetical protein	235.66	161.2	248.82	66.364
637011430	slr0149	hypothetical protein	226.048	259.421	292.981	62.882
637011432	slr0151	hypothetical protein	315.986	250.083	312.9	100.192
637011434	sll0149	hypothetical protein	127.594	93.182	81.271	75.42
637011435	sll0148	hypothetical protein	145.125	82.969	82.174	144.231
637011442	slr0157	hypothetical protein	11.238	30.716	8.157	1.561
637011452	ssl0242	hypothetical protein	152.16	436.515	183.774	246.713
637011454	slr0166	transposase	21.536	23.393	17.078	45.346
637011460	slr1926	hypothetical protein	77.173	107.991	72.674	107.911
637011462	slr1928	hypothetical protein	96.283	94.048	60.078	61.066
637011465	slr1931	hypothetical protein	78.566	154.887	155.957	96.456
637011467	sll1863	hypothetical protein	37.101	46.619	67.879	61607.817
637011468	sll1862	hypothetical protein	85.067	106.651	150.482	58077.061
637011472	sll1858	hypothetical protein	85.68	62.123	60.485	111.825
637011476	sll1853	hypothetical protein	81.246	199.435	54.715	89.958
637011479	sll1851	hypothetical protein	0.887	2.617	1.95	7.101
637011480	slr1936	transposase	207.022	398.946	179.38	472.841
637011486	slr1940	hypothetical protein	299.598	175.813	129.905	66.166
637011487	ssr3300	hypothetical protein	40.887	55.586	29.091	9.693
637011490	ssr3304	hypothetical protein	87.317	65.314	38.372	27.601
637011497	slr1949	hypothetical protein	262.826	233.21	178.33	122.324
637011506	ssl1807	hypothetical protein	49.57	43.787	27.415	43.544
637011509	sll0944	hypothetical protein	54.119	26.253	52.924	45.646
637011516	slr0325	hypothetical protein	7.774	10.418	9.095	4.712

637011519	slr0326	hypothetical protein	51.053	64.618	48.319	50.545
637011529	slr0333	hypothetical protein	177.608	123.289	93.702	15.695
637011530	slr0334	hypothetical protein	148.518	140.892	86.117	10.545
637011531	ssr0536	hypothetical protein	1158.293	913.657	630.359	219.121
637011532	sll0295	hypothetical protein	16.598	14.953	11.222	7.945
637011533	slr0335	phycobilisome LCM core-membrane linker polypept	1457.514	1537.934	1561.592	213.313
637011535	sll0294	hypothetical protein	80.223	51.907	57.085	25.254
637011536	sll0293	hypothetical protein	100.423	85.864	97.51	32.14
637011538	slr0168	hypothetical protein	86.751	101.286	69.249	16.515
637011539	slr0169	hypothetical protein	136.951	113.037	86.985	213.542
637011540	slr0171	ycf37 gene product	63.095	112.511	58.804	50.6
637011544	ssl0312	hypothetical protein	54.678	96.978	42.372	10.633
637011548	sll0172	hypothetical protein	52.378	58.646	65.765	21.952
637011552	sll0168	hypothetical protein	89.951	87.648	82.139	136.309
637011553	sll0167	hypothetical protein	115.176	104.499	82.108	98.076
637011556	sll0162	hypothetical protein	54.012	44.86	32.25	25.053
637011559	sll0161	transposase	20.403	21.444	16.011	44.843
637011562	ssl0294	hypothetical protein	224.128	190.16	176.643	194.954
637011563	sll0160	hypothetical protein	155.696	160.641	84.649	43.199
637011566	sll0156	hypothetical protein	76.139	37.145	32.497	146.579
637011567	slr0184	hypothetical protein	21.016	11.958	21.18	23.846
637011576	sml0001	photosystem II reaction center I protein PsbI	1194.727	1246.998	1136.129	151.361
637011578	slr0364	hypothetical protein	246.61	87.28	28.571	260.019
637011579	slr0366	hypothetical protein	53.596	18.365	10.102	51.502
637011585	slr0373	hypothetical protein	4492.761	1039.842	5522.253	2465.096
637011587	slr0376	hypothetical protein	3203.552	1163.336	9363.927	995.591
637011588	slr0377	hypothetical protein	49.981	44.113	53.115	36.863
637011597	sll0328	hypothetical protein	62.965	53.644	108.065	12.359
637011598	sll0327	hypothetical protein	255.132	151.086	324.964	42.165

637011599	slr0386	hypothetical protein	50.45	61.023	41.592	11.829
637011604	slr0771	hypothetical protein	25.554	70.822	40.428	5.452
637011607	sll0772	hypothetical protein	52.532	50.548	54.2	16.095
637011618	sll0763	hypothetical protein	98.264	66.803	58.695	219.669
637011619	sll0762	hypothetical protein	506.854	340.899	320.045	753.761
637011620	sll0761	hypothetical protein	564.78	368.24	382.718	700.992
637011623	slr0779	hypothetical protein	27.1	21.062	23.784	68.589
637011625	smr0001	photosystem II PsbT protein	14.31	7.032	12.353	3.181
637011627	sll0756	hypothetical protein	46.244	51.267	47.974	22.06
637011630	ssl1417	ycf33 gene product	165.743	185.14	120.68	34.938
637011640	sll0325	hypothetical protein	46.76	32.203	33.767	19.045
637011644	slr0345	hypothetical protein	219.705	219.438	171.224	27.315
637011648	slr0347	hypothetical protein	28.839	30.704	25.375	10.1
637011650	sll0319	hypothetical protein	205.531	148.473	115.164	42.009
637011652	sll0318	hypothetical protein	134.369	101.022	80.308	35.359
637011657	sll0315	transposase	26.612	59.216	26.006	21.873
637011658	slr0353	hypothetical protein	6.569	5.303	2.062	1.251
637011659	sll0314	hypothetical protein	134.471	79.919	96.286	106.624
637011661	ssl0601	30S ribosomal protein S21	720.677	2952.034	852.448	1103.7
637011667	slr0356	hypothetical protein	73.222	114.367	78.439	195.289
637011670	slr0358	hypothetical protein	123.336	79.883	65.164	23.205
637011671	sll0310	hypothetical protein	6.423	5.477	2.491	10.077
637011672	sll0309	hypothetical protein	16.214	15.331	12.03	4.15
637011673	sll0024	hypothetical protein	11.699	13.037	16.001	0.557
637011675	sll0022	hypothetical protein	119.52	48.042	81.072	5.903
637011687	slr0011	unknown function	2665.218	4869.547	2796.8	893.664
637011689	slr0013	hypothetical protein	333.04	308.447	187.03	86.453
637011694	slr0016	hypothetical protein	56.303	47.956	36.329	30.033
637011700	sll0008	hypothetical protein	3.367	16.877	11.204	2.395

637011712	slr0217	hypothetical protein	197.3	75.406	98.633	163.854
637011713	ssr0349	hypothetical protein	66.185	28.128	34.251	85.08
637011715	sll0208	hypothetical protein	962.738	1368.441	537.8	1099.371
637011724	sll0200	transposase	207.022	399.18	179.979	472.841
637011726	slr0226	hypothetical protein	45.746	27.895	35.043	30.449
637011742	ssl0788	hypothetical protein	257.001	140.639	113.308	230.038
637011743	ssl0787	hypothetical protein	202.634	174.392	124.338	196.939
637011744	sll0413	hypothetical protein	115.033	101.963	74.982	165.144
637011752	sll0406	hypothetical protein	37.454	54.346	38.598	25.444
637011753	sll0405	hypothetical protein	55.493	74.506	44.851	28.552
637011755	slr0438	hypothetical protein	72.082	49.484	46.251	11.78
637011756	sll0403	hypothetical protein	1.624	4.788	2.804	1.083
637011758	ssl0769	transposase	29.942	29.426	30.96	30.533
637011766	sll0072	hypothetical protein	14.059	22.823	13.87	8.705
637011773	sll0066	hypothetical protein	43.837	35.427	35.709	105.803
637011775	ssr0109	hypothetical protein	203.524	133.049	168.842	373.184
637011781	sll0063a	hypothetical protein	32.158	71.11	50.068	16.582
637011783	sll0062	hypothetical protein	61.821	37.691	66.122	35.622
637011786	slr0059	hypothetical protein	66.22	55.704	46.858	23.948
637011788	slr0061	hypothetical protein	15.471	12.29	7.77	1.834
637011794	slr0065	hypothetical protein	10.75	13.866	10.292	4.778
637011803	slr0468	hypothetical protein	19.648	50.656	18.914	3.144
637011810	slr0476	hypothetical protein	1885.2	1148.928	1011.977	393.737
637011811	sml0002	photosystem II PsbX protein	317.689	170.876	174.289	72.516
637011813	slr0479	hypothetical protein	33.252	24.276	15.955	35.263
637011816	slr0483	hypothetical protein	3107.054	2827.78	3028.443	355.542
637011818	slr0487	hypothetical protein	11.867	14.064	8.327	7.447
637011820	slr0489	hypothetical protein	42.178	34.79	31.917	37.162
637011827	slr0496	hypothetical protein	11.448	6.137	5.554	2.776

637011829	sll0691	hypothetical protein	118.469	142.178	116.39	349.891
637011833	sll0688	hypothetical protein	16.233	14.589	11.129	2.279
637011850	sll0614	hypothetical protein	30.127	23.898	22.156	17.983
637011853	slr0634	hypothetical protein	33.218	32.354	24.019	16.084
637011855	sll0611	hypothetical protein	16.903	9.628	12.059	7.855
637011857	slr0637	hypothetical protein	274.845	270.649	218.359	376.032
637011861	sll0609	hypothetical protein	31.905	43.806	33.874	65.488
637011862	sll0608	hypothetical protein	70.87	67.239	63.658	101.777
637011869	slr0645	hypothetical protein	148.219	91.178	80.726	34.909
637011878	sll0394	hypothetical protein	89.833	47.104	62.243	29.462
637011880	slr0416	hypothetical protein	31.152	41.139	25.913	31.503
637011882	slr0418	hypothetical protein	109.587	78.462	65.961	650.002
637011886	sll0382	hypothetical protein	197.919	276.352	339.26	137.141
637011887	sll0381	hypothetical protein	395.062	647.416	825.431	289.979
637011888	ssr0692	hypothetical protein	946.682	1056.415	693.84	626.322
637011889	ssl0750	hypothetical protein	28.012	11.072	11.469	25.444
637011890	ssr0693	hypothetical protein	73.937	57.721	44.546	28.625
637011893	slr0420	hypothetical protein	477.512	471.14	281.341	58.031
637011894	slr0421	hypothetical protein	23.812	43.317	22.28	2.443
637011897	sll0376	hypothetical protein	240.189	158.563	208.922	123.23
637011901	sll0372	hypothetical protein	128.289	220.217	117.198	27.874
637011905	sll0369	hypothetical protein	38.428	35.012	26.638	5.694
637011910	sll0188	hypothetical protein	65.907	40.567	47.39	22.91
637011916	slr0196	hypothetical protein	8.944	9.01	17.687	16.698
637011924	ssl0352	hypothetical protein	164.932	218.348	146.18	43.989
637011926	sll0181	hypothetical protein	8.256	17.309	8.638	2.936
637011933	ssr0330	ferredoxin-thioredoxin reductase, variable chain	168.711	237.236	118.683	45.532
637011934	slr0209	hypothetical protein	42.316	90.992	29.758	15.019
637011936	ssr0332	hypothetical protein	280.563	167.578	138.682	138.331

637011937	slr0211	hypothetical protein	277.988	165.912	184.038	738.138
637011948	slr0897	endo-1,4-beta-glucanase	34.099	16.336	17.112	86.05
637011956	ssr1528	hypothetical protein	333.807	382.834	150.174	66.959
637011959	slr0906	photosystem II CP47 protein	5617.303	4515.506	6401.41	944.446
637011960	slr0907	hypothetical protein	104.67	117.693	75.589	17.899
637011961	slr0909	hypothetical protein	69.806	118.498	57.29	7.447
637011962	slr0912	hypothetical protein	64.977	99.479	55.222	4.912
637011963	slr0913	hypothetical protein	8.904	17.971	9.916	0.754
637011964	slr0914	hypothetical protein	7.645	18.407	9.479	1.019
637011966	slr0915	putative endonuclease	24543.98	21033.062	72499.481	53859.772
637011974	ssl1690	hypothetical protein	495.568	347.552	350.991	397.35
637011975	slr0921	hypothetical protein	53.248	56.038	52.372	8.679
637011977	slr0923	hypothetical protein	546.071	1022.557	367.31	98.175
637011978	slr0924	hypothetical protein	534.119	545.111	326.303	204.441
637011985	sll0552	hypothetical protein	25.064	21.803	14.459	7.829
637011989	slr0569	hypothetical protein	34.483	18.413	19.267	10.627
637011990	sll0547	hypothetical protein	59.572	56.892	62.116	107.764
637011992	sll0545	hypothetical protein	36.577	44.001	22.665	10.136
637011994	slr0572	hypothetical protein	4.673	2.87	6.112	5.539
637011995	sll0543	hypothetical protein	510.177	223.134	542.657	17.418
637011996	ssl1046	hypothetical protein	227.618	120.453	240.137	7.184
637011997	slr0573	hypothetical protein	3.094	6.082	3.642	2.751
637012001	slr0575	hypothetical protein	155.325	119.049	91.879	44.562
637012003	slr0579	hypothetical protein	65.003	44.814	61.822	74.177
637012007	slr0582	hypothetical protein	152.343	96.343	100.734	564.985
637012009	sll0539	hypothetical protein	14.095	12.58	11.467	26.851
637012019	ssr1407	hypothetical protein	20.67	14.845	24.956	48.062
637012023	ssl1552	hypothetical protein	170.423	117.945	92.698	50.889
637012029	sll0827	hypothetical protein	22.804	28.015	19.739	20.581

637012033	ssr1425	ycf34 gene product	78.62	114.544	149.805	22.685
637012035	ssl1533	hypothetical protein	693.168	202.289	256.967	215.406
637012036	slr0845	hypothetical protein	41.957	26.95	24.271	32.505
637012038	sll0822	hypothetical protein	2065.968	3097.302	1363.908	1146.953
637012051	sll0085	hypothetical protein	31.171	35.717	17.167	13.1
637012056	sll0082	hypothetical protein	32.709	25.764	20.535	44.474
637012073	slr0498	hypothetical protein	12.179	12.328	9.022	4.981
637012078	sll0486	circadian rhythm protein	15.561	21.301	19.189	10.375
637012082	slr0503	hypothetical protein	221.513	111.263	129.178	159.592
637012086	sll0481	hypothetical protein	333.173	285.425	269.289	210.405
637012096	slr0514	hypothetical protein	21.272	44.377	9.105	35.416
637012101	slr0518	arabinofuranosidase	26.37	15.96	15.142	30.59
637012104	slr0521	hypothetical protein	42.677	47.767	25.091	20.175
637012105	slr0522	hypothetical protein	5.011	10.228	6.655	4.284
637012106	sll0471	hypothetical protein	23.398	23.611	12.223	41.974
637012107	sll0470	hypothetical protein	282.839	294.063	215.424	385.339
637012113	sll0595	hypothetical protein	91.427	37.699	45.918	204.968
637012118	ssr1038	hypothetical protein	127.525	137.791	164.214	280.854
637012124	sll0588	hypothetical protein	580.59	284.931	628.179	108.056
637012129	sll0584	hypothetical protein	62.505	35.079	38.827	33.341
637012137	slr0103	hypothetical protein	15.673	6.697	7.273	11.359
637012140	sll0102	hypothetical protein	33.484	41.604	19.019	16.585
637012142	slr0106	hypothetical protein	10.718	21.425	24.62	3.681
637012143	sll0101	hypothetical protein	4.446	6.281	6.629	2.964
637012148	slr0108	hypothetical protein	15.301	22.22	11.235	45.545
637012154	slr0111	hypothetical protein	38.819	60.944	19.207	9.066
637012155	slr0112	hypothetical protein	57.241	21.776	24.344	129.41
637012158	slr0116	phycocyanobilin:ferredoxin oxidoreductase	69.885	77.831	35.503	14.306
637012159	ssl0172	transposase	5.088	5	2.795	8.481

637012180	sll0283	hypothetical protein	8.593	6.674	8.788	0.739
637012182	sll0282	hypothetical protein	8.052	6.795	5.275	3.579
637012183	sll0281	hypothetical protein	8.784	10.287	7.077	2.213
637012184	sll0280	hypothetical protein	6.222	9.936	5.469	3.595
637012190	slr0316	hypothetical protein	34.258	31.111	34.303	36.046
637012194	ssl0511	hypothetical protein	78.056	65.631	25.591	65.538
637012203	slr0793	hypothetical protein	4.77	4.297	4.991	1.649
637012217	ssl1464	hypothetical protein	17.703	11.599	12.596	8.919
637012219	sll0786	hypothetical protein	2.966	5.392	2.234	0.264
637012222	sll0783	hypothetical protein	14.221	39.833	30.133	4.741
637012226	sll0780	hypothetical protein	7.934	16.431	11.03	1.512
637012231	sll0775	hypothetical protein	19.989	12.278	31.658	12.52
637012235	slr0699	hypothetical protein	2.436	10.772	5.607	2.165
637012238	slr0702	hypothetical protein	9.86	7.2	7.823	4.261
637012239	sll0678	hypothetical protein	0	0.771	0.738	0.697
637012242	sll0676	hypothetical protein	18.975	15.54	14.295	1.687
637012243	ssr1175	transposase	165.096	349.673	153.579	383.004
637012245	smr0002	transposase	98.128	237.077	78.032	235.542
637012251	sll0669	hypothetical protein	1.07	3.943	5.374	2.378
637012253	slr0708	hypothetical protein	451.112	332.089	232.291	4.167
637012256	sll0666	transposase	19.626	19.087	18.225	106.139
637012264	sll0661	Ycf35	1587.668	1248.307	929.042	351.092
637012265	ssl1263	hypothetical protein	1622.542	1153.934	941.877	523.337
637012267	smr0003	cytochrome b6-f complex subunit; PetM	64.977	68.419	48.562	19.255
637012276	sll0743	hypothetical protein	3.555	4.542	4.687	0.948
637012277	sll0742	hypothetical protein	27.476	16.689	13.416	8.142
637012284	sll0047	hypothetical protein	16.512	20.825	13.822	7.34
637012287	slr0023	hypothetical protein	27.364	33.891	29.976	6.702
637012304	slr0038	hypothetical protein	355.498	216.563	179.68	216.181

637012309	slr0042	hypothetical protein	11.309	9.116	7.91	19.932
637012314	sll0518	hypothetical protein	289.765	286.16	141.696	130.518
637012330	sll0508	hypothetical protein	9.373	12.337	7.565	33.926
637012345	sll0497	hypothetical protein	38.99	32.102	22.004	61.214
637012351	sll0494	hypothetical protein	4.549	12.574	3.927	1.517
637012357	slr0927	photosystem II D2 protein	7876.264	6016.238	6039.073	14070.36
637012363	ssr1562	hypothetical protein	310.738	213.972	167.701	86.632
637012378	slr0552	hypothetical protein	233.17	511.466	183.493	371.591
637012380	slr0554	hypothetical protein	21.086	47.684	13.48	13.544
637012395	slr1421	hypothetical protein	36.041	32.816	30.279	34.868
637012396	sll1344	hypothetical protein	59.946	57.917	34.238	10.418
637012401	slr1425	hypothetical protein	87.317	96.54	76.745	31.051
637012403	sll1340	hypothetical protein	86.145	66.281	63.333	41.316
637012405	sll1338	hypothetical protein	8260.397	4798.031	6280.382	3740.589
637012411	sll1333	hypothetical protein	106.721	93.68	58.015	28.248
637012412	slr1431	hypothetical protein	47.14	42.664	48.393	66.925
637012415	slr1451	hypothetical protein	54.619	35.535	29.215	64.291
637012418	ssr2439	hypothetical protein	10.514	10.333	15.401	6.751
637012424	slr1459	phycobilisome core component	2765.088	1517.908	1545.457	199.663
637012436	sll0630	hypothetical protein	1131.495	1010.481	1134.936	172.185
637012437	sll0629	photosystem I subunit X	585.724	595.917	657.712	138.07
637012443	slr0654	hypothetical protein	152.343	182.388	95.075	278.886
637012451	sll0626	LIM17 protein	35.279	29.448	28.309	9.243
637012452	sll0625	hypothetical protein	69.399	62.354	50.247	49.087
637012453	sll0624	hypothetical protein	5.4	14.86	12.544	9.602
637012455	sll0623	hypothetical protein	130.588	88.661	82.393	136.413
637012458	ssr1114	hypothetical protein	27.634	38.15	30.153	54.398
637012461	slr0666	hypothetical protein	37.331	62.982	31.249	10.325
637012462	slr0667	hypothetical protein	15.133	29.421	8.881	12.283

637012463	slr0668	hypothetical protein	3.198	10.371	3.614	2.274
637012467	slr1557	hypothetical protein	181.315	116.768	95.57	258.707
637012480	slr1568	hypothetical protein	37.604	39.831	25.444	11.886
637012489	slr1576	hypothetical protein	194.727	156.674	117.883	93.217
637012491	slr1579	hypothetical protein	124.04	99.621	84.765	79.361
637012500	sll1476	hypothetical protein	6.669	9.558	7.676	2.964
637012501	slr1583	hypothetical protein	274.379	205.96	209.082	194.723
637012505	sll1472	hypothetical protein	50.279	76.971	101.738	4.126
637012506	sll1471	phycobilisome rod-core linker polypeptide; CpcG	1061.024	882.875	1495.942	6.717
637012508	slr1585	transposase	20.412	35.759	13.65	52.861
637012512	slr0746	glucosylglycerolphosphate phosphatase	44.115	43.023	56.325	297.272
637012516	slr0748	hypothetical protein	60.958	37.382	31.269	45.381
637012519	sll0733	hypothetical protein	17.554	15.189	20.843	14.927
637012522	sll0732	hypothetical protein	8.348	7.325	4.679	2.12
637012524	ssl1378	hypothetical protein	40.406	38.386	33.822	16.165
637012527	ssr1256	hypothetical protein	61.235	39.575	33.011	3.55
637012532	slr0756	circadian rhythm protein	11.83	20.721	19.405	7.633
637012533	slr0757	circadian clock protein KaiB	12.96	19.106	18.307	1.44
637012535	sll0723	hypothetical protein	51.75	24.128	52.525	402.4
637012536	sll0722	hypothetical protein	23.213	26.961	17.057	7.27
637012539	sll1552	hypothetical protein	16.735	2.056	30.922	155.878
637012543	sll1550	hypothetical protein	50.624	116.692	132.337	56.678
637012545	slr1655	photosystem I reaction center protein subunit XI	10269.367	5629.829	7506.066	678.945
637012546	smr0004	photosystem I subunit VIII	7413.438	6277.984	7237.151	440.622
637012551	slr1660	hypothetical protein	77.113	47.657	35.191	31.904
637012559	ssr2781	hypothetical protein	125.386	93.424	54.332	55.129
637012561	sll1543	hypothetical protein	1.568	1.349	0.492	1.394
637012562	slr1667	hypothetical protein	2.558	2.986	3.614	11.087
637012564	ssr2786	hypothetical protein	20.203	19.855	12.683	1.497

637012569	sll0449	hypothetical protein	3.069	1.357	1.156	0.546
637012570	sll0448	hypothetical protein	0.57	1.12	0.358	0.506
637012571	sll0447	hypothetical protein	0.426	0.941	0.534	0.189
637012573	sll0445	hypothetical protein	107.789	87.956	92.955	54.069
637012574	sll0444	hypothetical protein	142.422	107.321	125.562	56.038
637012575	sll0443	hypothetical protein	139.084	104.252	107.655	46.883
637012577	sll0442	hypothetical protein	22.488	25.114	19.572	20.901
637012581	ssl0832	hypothetical protein	235.054	102.337	96.339	212.217
637012582	sll0436	hypothetical protein	27.114	29.423	26.006	19.418
637012585	slr0456	hypothetical protein	241.205	187.342	132.895	126.742
637012588	slr0459	hypothetical protein	28.922	20.548	14.601	14.142
637012596	slr1178	hypothetical protein	187.135	217.63	117.713	40.776
637012599	sll1109	hypothetical protein	158.514	238.581	90.301	32.099
637012601	slr1181	photosystem II D1 protein	37.104	31.244	38.026	35.805
637012603	slr1183	hypothetical protein	7.632	14.713	8.293	4.697
637012607	slr1187	hypothetical protein	253.709	163.498	154.928	25.958
637012615	slr0587	hypothetical protein	143.361	118.086	113.312	143.497
637012618	slr0588	hypothetical protein	45.443	54.753	48.829	25.25
637012619	slr0589	hypothetical protein	82.304	98.371	52.836	28.333
637012620	slr0590	hypothetical protein	43.111	70.025	27.666	18.737
637012634	sll0565	hypothetical protein	107.648	84.803	64.363	48.99
637012636	slr0598	hypothetical protein	147.827	140.912	117.926	258.89
637012639	slr0601	hypothetical protein	71.884	487.984	41.786	81.659
637012640	slr0602	hypothetical protein	50.196	193.216	32.619	43.843
637012641	sll0563	hypothetical protein	15.192	21.196	13.966	18.812
637471803	ssl5001	hypothetical protein	1.908	7.501	5.989	3.393
637471804	sll5002	hypothetical protein	45.398	76.139	63.198	54.837
637471807	slr5005	hypothetical protein	12.961	11.975	7.002	7.959
637471808	sll5006	hypothetical protein	134.904	77.693	97.124	48.688

637471809	ssl5007	hypothetical protein	1.379	8.811	3.031	14.102
637471810	ssl5008	hypothetical protein	3.948	0	0.62	6.142
637471811	ssr5009	hypothetical protein	20.034	20.393	20.663	44.528
637471814	slr5012	hypothetical protein	1.865	8.612	3.043	6.133
637471815	slr5013	hypothetical protein	9.337	9.276	3.377	6.767
637471816	sll5014	hypothetical protein	2.512	2.733	0.451	2.871
637471817	ssl5015	hypothetical protein	1.218	5.386	2.294	12.993
637471818	slr5016	hypothetical protein	0	1.042	0.313	2.107
637471826	slr5024	hypothetical protein	7.346	8.273	7.495	10.885
637471828	sll5026	hypothetical protein	7.787	8.548	5.565	4.566
637471829	ssl5027	hypothetical protein	18.691	20.952	21.268	64.39
637471830	sll5028	hypothetical protein	77.056	57.878	52.522	101.288
637471833	ssl5031	hypothetical protein	123.521	114.732	89.84	3089.479
637471834	sll5032	hypothetical protein	81.214	90.874	76.172	1876.357
637471835	sll5033	hypothetical protein	50.245	82.196	60.492	776.618
637471836	sll5034	hypothetical protein	124.39	139.963	119.556	1925.696
637471841	ssl5039	hypothetical protein	15.186	10.333	15.768	18.175
637471844	sll5042	hypothetical protein	11.815	10.01	6.139	0.543
637471846	sll5044	hypothetical protein	3.745	4.337	3.526	0.713
637471847	ssl5045	hypothetical protein	801.377	751.611	1023.291	219.405
637471848	sll5046	hypothetical protein	24.919	21.473	16.324	10.114
637471849	sll5047	hypothetical protein	11.312	7.616	7.528	6.336
637471853	slr5051	hypothetical protein	90.887	65.274	41.971	22.142
637471855	slr5053	hypothetical protein	1.558	2.105	1.222	2.423
637471863	sll5061	hypothetical protein	35.435	28.128	28.235	12.924
637471864	sll5062	hypothetical protein	6.779	4.626	7.565	169.741
637471865	sll5063	hypothetical protein	32.559	43.482	32.639	474.572
637471866	ssl5064	hypothetical protein	41.308	44.946	34.084	58.758
637471867	ssl5065	hypothetical protein	17.49	28.909	11.48	17.67

637471869	sll5067	hypothetical protein	1.963	1.125	1.027	3.199
637471871	sll5069	hypothetical protein	27.923	17.323	15.996	49.544
637471872	ssl5070	hypothetical protein	9.428	7.942	2.959	7.783
637471873	slr5071	hypothetical protein	127.424	146.509	88.434	385.426
637471874	sll5072	hypothetical protein	8.892	8.739	6.978	20.751
637471875	slr5073	hypothetical protein	7.476	12.055	6.747	39.88
637471876	ssr5074	hypothetical protein	6.36	18.361	9.982	20.497
637471877	sll5075	hypothetical protein	26.167	38.575	20.792	3.998
637471880	slr5078	hypothetical protein	12.802	17.973	12.514	10.568
637471887	slr5085	hypothetical protein	0	0.263	0	0.476
637471892	sll5090	hypothetical protein	149.755	89.857	121.211	55.015
637471893	ssl5091	hypothetical protein	1.379	8.811	3.464	12.875
637471894	ssr5092	hypothetical protein	4.188	10.977	5.259	14.894
637471897	ssl5095	hypothetical protein	36.968	24.319	13.85	232.71
637471898	ssl5096	hypothetical protein	6.542	4.018	2.567	1.454
637471900	ssl5098	hypothetical protein	19.349	23.374	32.393	35.837
637471901	ssl5099	hypothetical protein	49.064	58.265	48.037	60.755
637471902	ssl5100	hypothetical protein	0	0	0	0
637471903	slr5101	hypothetical protein	41.559	46.43	31.259	22.307
637471904	slr5102	hypothetical protein	10.822	11.055	6.973	7.089
637471905	ssl5103	hypothetical protein	78.139	139.299	65.597	117.933
637471908	ssr5106	hypothetical protein	19.08	26.325	11.518	45.669
637471911	sll5109	hypothetical protein	24.417	13.356	13.738	41.673
637471912	slr5110	hypothetical protein	62.673	99.576	52.724	120.35
637471913	slr5111	hypothetical protein	15.921	24.03	19.991	22.917
637471914	slr5112	hypothetical protein	0.909	2.307	1.901	1.75
637471915	ssl5113	hypothetical protein	73.174	69.595	45.198	90.236
637471916	ssl5114	hypothetical protein	53.023	40.859	24.966	106.598
637471919	ssr5117	hypothetical protein	44.521	50.786	28.449	19.083

637471922	ssr5120	hypothetical protein	74.355	34.217	39.641	57.184
637471923	ssr5121	hypothetical protein	7.95	22.268	15.972	7.068
637471927	ssl5125	hypothetical protein	0	3	2.396	1.357
637471928	slr5126	hypothetical protein	27.709	43.177	25.636	20.096
637471929	slr5127	hypothetical protein	14.255	31.083	14.263	19.405
637471930	sll5128	hypothetical protein	23.823	44.224	25.965	5.295
637471931	ssl5129	hypothetical protein	1.761	8.655	4.976	9.395
637471932	sll5130	hypothetical protein	5.051	8.893	3.699	4.864
637471935	sll7001	transposase	1.111	2.458	1.047	3.953
637471940	sll7006	hypothetical protein	1.06	5.99	4.326	3.77
637471941	ssl7007	hypothetical protein	44.267	21.752	26.353	27.819
637471945	slr7011	hypothetical protein	6.334	11.413	9.573	12.096
637471946	slr7012	hypothetical protein	12.836	24.889	19.384	10.795
637471947	slr7013	hypothetical protein	2.694	7.06	6.623	5.388
637471952	ssr7018	hypothetical protein	211.947	190.433	270.977	230.374
637471953	ssl7019	hypothetical protein	26.624	6.868	8.775	8.876
637471954	ssl7020	hypothetical protein	22.093	5.922	10.087	12.499
637471955	ssl7021	hypothetical protein	38.776	19.962	17.388	15.595
637471956	ssl7022	hypothetical protein	10.903	4.018	5.704	6.462
637471957	slr7023	hypothetical protein	9.137	13.162	18.502	19.511
637471960	slr7026	hypothetical protein	0.909	4.465	6.845	0.404
637471961	sll7027	hypothetical protein	11.155	12.117	9.767	2.61
637471964	sll7030	hypothetical protein	3.407	13.896	7.701	45.436
637471967	sll7033	hypothetical protein	10.042	10.116	11.979	46.871
637471969	ssr7035	hypothetical protein	1.244	1.529	1.562	1.106
637471970	ssr7036	hypothetical protein	151.469	98.231	178.574	15.658
637471971	slr7037	hypothetical protein	4.656	5.895	4.534	4.776
637471974	ssr7040	hypothetical protein	113.12	82.709	63.316	351.98
637471976	ssl7042	hypothetical protein	13.469	26.142	19.448	16.763

637471977	sll7043	hypothetical protein	54.599	41.687	24.879	16.702
637471979	ssl7045	hypothetical protein	34.035	23.186	23.795	90.774
637471981	sll7047	hypothetical protein	67.094	65.132	61.121	385.002
637471982	ssl7048	hypothetical protein	4.641	15.204	11.655	151.291
637471984	sll7050	hypothetical protein	7.517	5.256	5.808	4.112
637471985	ssl7051	hypothetical protein	0	0.948	0.808	2.859
637471986	slr7052	hypothetical protein	5.3	2.604	3.66	10.366
637471987	ssl7053	hypothetical protein	1.413	0.695	3.549	8.796
637471988	slr7054	hypothetical protein	29.37	18.85	20.696	56.217
637471989	sll7055	hypothetical protein	1.897	2.176	2.581	1.125
637471990	sll7056	hypothetical protein	3.634	4.911	5.134	12.116
637471991	slr7057	hypothetical protein	35.114	41.837	45.599	146.465
637471992	slr7058	hypothetical protein	66.876	70.459	89.662	263.009
637471993	slr7059	hypothetical protein	47.923	33.23	42.956	2645.975
637471995	slr7061	hypothetical protein	41.138	45.151	32.793	349.243
637471996	sll7062	hypothetical protein	27.082	28.808	55.836	3.967
637471997	sll7063	hypothetical protein	37.538	53.817	113.045	7.224
637471998	sll7064	hypothetical protein	48.389	34.797	100.213	4.984
637472003	sll7069	hypothetical protein	81.773	92.42	86.246	22.294
637472004	sll7070	hypothetical protein	35.719	48.38	46.286	11.806
637472007	slr7073	hypothetical protein	97.559	66.528	91.246	52.659
637472008	ssl7074	hypothetical protein	64.758	46.596	64.612	178.367
637472009	sll7075	hypothetical protein	33.982	19.941	26.512	46.489
637472010	slr7076	hypothetical protein	1.761	2.596	2.211	436.468
637472012	sll7078	hypothetical protein	6.338	6.326	5.844	1.057
637472013	ssr7079	hypothetical protein	1.547	1.901	5.827	8.94
637472014	slr7080	hypothetical protein	52.64	34.73	39.287	45.489
637472015	slr7081	hypothetical protein	18.792	12.029	19.249	6.155
637472016	slr7082	hypothetical protein	6.44	3.868	6.064	2.385

637472018	ssr7084	hypothetical protein	4.519	2.591	2.837	1.339
637472020	sll7086	hypothetical protein	30.355	39.848	80.584	1.542
637472022	slr7088	hypothetical protein	2.704	1.772	3.113	4.408
637472025	slr7091	hypothetical protein	27.923	13.035	41.779	2.069
637472028	slr7094	hypothetical protein	33.464	44.572	88.181	161.669
637472030	slr7096	hypothetical protein	2.489	6.726	12.499	9.956
637472032	slr7098	hypothetical protein	2.36	1.45	3.828	1.049
637472033	slr7099	hypothetical protein	1.743	7.567	5.655	2.067
637472034	slr7100	hypothetical protein	19.08	19.752	63.487	16.284
637472035	slr7101	hypothetical protein	32.257	30.614	66.71	26.991
637472038	slr7104	transposase	207.976	404.806	183.573	480.898
637472042	sll8002	hypothetical protein	53.748	42.918	38.635	28.909
637472043	ssl8003	hypothetical protein	70.598	62.819	62.289	41.559
637472047	sll8007	hypothetical protein	152.643	97.125	99.515	183.982
637472051	sll8011	hypothetical protein	54.952	23.852	30.761	50.074
637472052	sll8012	hypothetical protein	55.182	22.462	29.99	56.014
637472053	ssr8013	hypothetical protein	43.684	30.348	31.208	35.488
637472054	slr8014	hypothetical protein	18.543	16.045	18.98	12.543
637472057	sll8017	hypothetical protein	58.528	53.727	102.357	92.629
637472058	sll8018	hypothetical protein	57.565	45.29	31.943	11.309
637472059	sll8019	hypothetical protein	12.323	15.822	10.481	1.325
637472064	ssl8024	hypothetical protein	0	0.439	1.684	0.795
637472065	sll8025	hypothetical protein	9.318	6.051	3.97	19.231
637472068	ssl8028	hypothetical protein	32.488	23.567	28.166	504.073
637472072	sll8032	hypothetical protein	6.025	3.948	7.565	2.678
637472073	sll8033	hypothetical protein	5.165	2.961	6.214	3.444
637472075	sll8035	hypothetical protein	1.363	2.177	3.422	2.726
637472079	ssl8039	hypothetical protein	15.833	20.946	19.879	44.392
637472080	sll8040	hypothetical protein	7.785	9.451	10.781	2.85

637472081	ssl8041	transposase	3.367	15.305	5.813	18.709
637472083	sll8043	transposase	206.068	404.337	182.974	480.474
637472084	slr8044	hypothetical protein	7.895	7.417	6.56	3.613
637472085	slr8045	transposase	206.068	404.337	182.974	480.474
637472087	ssr8047	hypothetical protein	0	2.939	1.073	3.798
637472091	ssr6002	hypothetical protein	1.379	9.828	3.031	14.102
637472092	ssr6003	hypothetical protein	57.241	45.152	48.23	30.801
637472093	slr6004	hypothetical protein	209.724	114.638	157.333	67.139
637472094	slr6005	hypothetical protein	96.2	43.956	74.741	47.019
637472097	slr6008	hypothetical protein	57.574	25.021	25.072	7.988
637472098	slr6009	hypothetical protein	11.232	6.156	8.679	1.536
637472099	sll6010	hypothetical protein	74.259	45.613	50.828	14.212
637472102	slr6013	hypothetical protein	15.441	28.67	23.611	2.157
637472103	slr6014	hypothetical protein	4.159	11.179	11.211	0.652
637472104	slr6015	hypothetical protein	9.125	21.096	19.205	1.844
637472105	slr6016	hypothetical protein	7.575	13.765	12.293	0.635
637472107	ssl6018	hypothetical protein	9.54	25.784	15.472	8.481
637472108	ssr6019	hypothetical protein	12.142	2.131	4.356	3.855
637472109	ssr6020	hypothetical protein	0	0	0	2.091
637472110	slr6021	hypothetical protein	3.693	12.521	3.478	8.536
637472111	slr6022	hypothetical protein	12.672	7.3	7.681	768.574
637472112	ssl6023	hypothetical protein	4.837	24.958	16.703	90.309
637472113	ssr6024	hypothetical protein	5.724	1.406	0.599	135.703
637472115	ssr6026	hypothetical protein	0	0.654	0.418	13.61
637472116	ssr6027	hypothetical protein	0	1.318	0	7.156
637472117	slr6028	hypothetical protein	1.231	3.478	3.478	16.689
637472118	slr6029	hypothetical protein	9.655	6.439	6.494	21.153
637472119	ssr6030	hypothetical protein	42.343	45.467	125.53	8.365
637472120	slr6031	hypothetical protein	12.346	14.666	8.039	6.395

637472122	slr6033	hypothetical protein	26.419	26.751	17.088	24.199
637472124	ssl6035	hypothetical protein	35.225	39.667	20.272	65.894
637472127	slr6038	hypothetical protein	128.084	162.083	106.029	169.797
637472133	slr6044	hypothetical protein	80.853	20.568	14.824	6.043
637472134	slr6045	hypothetical protein	13.338	9.558	9.071	5.435
637472135	ssr6046	hypothetical protein	129.635	69.492	88.783	279.139
637472137	ssr6048	hypothetical protein	64.773	66.618	45.393	103.786
637472139	slr6050	hypothetical protein	11.646	20.208	12.99	12.803
637472140	slr6051	hypothetical protein	1.803	9.081	6.225	3.206
637472141	sll6052	hypothetical protein	5.204	10.015	5.445	80.574
637472143	sll6054	hypothetical protein	31.304	33.182	27.233	479.864
637472144	sll6055	hypothetical protein	23.944	27.76	24.662	410.436
637472145	slr6056	hypothetical protein	33.391	48.52	27.551	27.565
637472146	slr6057	hypothetical protein	32.709	41.044	30.619	11.943
637472150	ssl6061	hypothetical protein	0	2.038	1.042	0
637472151	ssr6062	hypothetical protein	1.379	9.489	3.031	14.102
637472152	slr6063	hypothetical protein	144.805	82.863	118.686	52.814
637472153	slr6064	hypothetical protein	96.2	43.956	74.741	47.019
637472156	slr6067	hypothetical protein	57.574	25.021	25.072	7.988
637472157	slr6068	hypothetical protein	10.8	6.156	8.814	1.536
637472158	sll6069	hypothetical protein	74.259	45.613	50.828	14.212
637472161	slr6072	hypothetical protein	15.441	28.67	23.542	2.157
637472162	slr6073	hypothetical protein	4.159	11.239	11.288	0.652
637472163	slr6074	hypothetical protein	9.125	21.096	19.205	1.844
637472164	slr6075	hypothetical protein	7.575	13.765	12.293	0.635
637472166	ssl6077	hypothetical protein	9.54	25.784	15.472	8.481
637472167	ssr6078	hypothetical protein	12.142	2.131	4.356	3.855
637472168	ssr6079	hypothetical protein	0	0	0	2.091
637472169	slr6080	hypothetical protein	3.693	12.521	3.478	8.536

637472170	slr6081	hypothetical protein	12.672	7.3	7.681	768.574
637472171	ssl6082	hypothetical protein	4.837	24.958	16.703	89.593
637472172	ssr6083	hypothetical protein	5.724	1.406	0.599	136.551
637472174	ssr6085	hypothetical protein	0	0.654	0.418	13.61
637472175	ssr6086	hypothetical protein	0	1.318	0	7.156
637472176	slr6087	hypothetical protein	1.231	3.478	3.478	16.689
637472177	slr6088	hypothetical protein	9.655	6.439	6.494	21.153
637472178	ssr6089	hypothetical protein	48.616	43.926	123.068	8.365
637472179	slr6090	hypothetical protein	19.528	22.67	14.235	8.475
637472180	slr6091	hypothetical protein	30.002	26.77	15.118	32.288
637472181	ssl6092	hypothetical protein	37.727	43.47	17.968	2.313
637472183	slr6094	hypothetical protein	13.78	21.096	15.306	17.905
637472185	slr6096	hypothetical protein	39.181	47.757	25.943	8.572
637472188	ssr6099	hypothetical protein	7.246	3.56	7.278	6.442
637472193	slr6104	hypothetical protein	6.807	10.035	7.187	4.951
637472195	slr6106	hypothetical protein	0	0.688	0.264	0
637472197	slr6108	hypothetical protein	1.696	6.563	2.529	0.754
640691516	6803s01	RNA subunit of RNase P	52725.196	53889.969	94085.491	77631.576
640691517	6803t01	tRNA-Pro-GGG	13.924	5.702	2.914	10.315
640691518	6803t02	tRNA-Ser-TGA	28.284	23.826	19.025	12.572
640691519	6803t03	tRNA-Thr-CGT	4.77	3.516	0	2.12
640691520	6803t04	tRNA-Pro-CGG	55.694	37.63	21.853	18.567
640691521	6803t05	tRNA-Val-TAC	79.981	36.99	50.212	62.739
640691522	6803t06	tRNA-Arg-CCT	4.641	0	1.457	0
640691523	6803t07	tRNA-Leu-TAG	12.72	17.71	7.986	16.963
640691524	6803t08	tRNA-Arg-TCT	9.41	10.403	11.815	0
640691525	6803t09	tRNA-Trp-CCA	428.133	834.586	292.41	403.624
640691526	6803t10	tRNA-Leu-GAG	29.681	29.17	27.95	64.082
640691527	6803t11	tRNA-Met-CAT	6.025	22.206	17.022	8.035

640691528	6803t12	tRNA-Leu-CAA	87.956	50.424	36.812	40.959
640691529	6803t13	tRNA-Asp-GTC	454.836	421.917	203.961	722.069
640691530	6803t14	tRNA-Glu-TTC	164.667	84.383	84.179	96.201
640691531	6803t15	tRNA-Pro-TGG	18.565	22.806	13.112	47.45
640691532	6803t16	tRNA-Phe-GAA	4.705	2.312	0	4.183
640691533	6803t17	tRNA-Gly-TCC	24.186	5.942	10.629	8.601
640691534	6803t18	tRNA-Met-CAT	0	1.156	0	4.183
640691535	6803t19	tRNA-Arg-ACG	9.282	9.123	5.827	20.631
640691536	6803t20	tRNA-Ser-GGA	27.634	45.586	47.088	61.417
640691537	6803t21	tRNA-Ser-GCT	38.161	28.128	22.759	55.978
640691538	6803t22	tRNA-His-GTG	65.867	35.834	20.675	39.735
640691539	6803t23	tRNA-Gln-TTG	19.08	29.3	19.465	36.046
640691540	6803t24	tRNA-Asn-GTT	28.621	26.956	17.968	27.565
640691541	6803t25	tRNA-Thr-TGT	42.931	22.268	13.476	8.481
640691542	6803t26	tRNA-Ala-GGC	42.343	31.21	10.338	31.37
640691543	6803t27	tRNA-Lys-TTT	52.471	73.835	55.401	23.324
640691544	6803t28	tRNA-Ala-TGC	18.819	18.495	8.861	16.731
640691547	6803t29	tRNA-Ile-GAT	83.541	562.176	151.514	546.709
640691549	6803t30	tRNA-Gly-CCC	4.837	0	3.037	4.3
640691550	6803t31	tRNA-Ser-CGA	117.176	70.485	88.783	201.16
640691551	6803t32	tRNA-Ala-CGC	18.819	15.027	7.384	29.278
640691552	6803t33	tRNA-Arg-CCG	51.752	50.861	36.921	37.644
640691553	6803t34	tRNA-OTHER	9.813	12.055	21.562	21.809
640691554	slr0917	tRNA-OTHER	37444.353	22916.408	113540.549	80813.771
640691555	6803t35	tRNA-Cys-GCA	183.817	199.668	103.253	296.731
640691556	6803t36	tRNA-Gly-GCC	23.851	11.72	17.968	16.963
640691557	6803t37	tRNA-Tyr-GTA	29.319	14.407	7.888	3.724
640691558	6803t38	tRNA-Thr-GGT	147.873	217.99	64.385	59.37
640691559	6803t39	tRNA-Leu-TAA	27.955	38.267	23.818	3.55

640691561	6803t40	tRNA-Ile-GAT	83.541	562.176	151.514	546.709
640691564	6803t41	tRNA-Leu-CAG	24.532	3.014	3.85	0
640691565	6803t42	tRNA-Val-GAC	0	3.421	5.827	4.126
641222987	slr_R0051	RF00442	2.815	0.692	0	3.754
641222988	slr_R0052	RF00557	1054.304	4955.069	1472.956	1600.331
641222989	slr_R0053	RF00169	967.26	198.043	408.13	468.903
641222990	slr_R0054	RF00013	15362.808	10718.047	18554.545	35122.219
641222991	slr_R0055	RF00059	0	12.306	7.861	7.951
641222992	slr_R0056	RF00023	106728.437	172573.493	269316.51	184390.663
641222993	slr_R0057	RF00379	110.113	179.717	94.64	175.974
643672256	slr_RF0058	Intron_gpI	23566.648	17365.457	68627.335	45033.603
643672257	slr_RF0059	Yfr1	0	5.358	1.711	7.27

Gene functional classi

NaCl 24 hours	CO2 1 hour	CO2 24 hours	Temperature 1 hour	Temperature 24 hours	light 1 hour	light 24 hours	Cassette ID	COG function	KEGG pathway
34.952	31.424	24.578	33.645	47.506	25.974	20.804	993	B - Chromatin structure an	
36.208	48.316	21.551	57.777	66.055	22.905	20.748	993	C - Energy pr	map00196 Ph
73.557	86.023	46.559	69.961	187.891	38.588	37.461	993	C - Energy pr	map02020 Tv
20.914	33.709	11.215	30.202	35.505	12.646	11.921	993	C - Energy pr	map01062 Bi
776.762	870.705	1778.669	809.53	812.976	805.836	551.636	993	C - Energy pr	map00190 Ox
810.462	808.751	142.691	931.728	591.712	285.141	241.598	993	C - Energy pr	map00190 Ox
1311.964	1262.876	181.467	1521.446	746.726	428.805	369.294	993	C - Energy pr	map00190 Ox
1182.657	1136.022	184.216	1486.383	628.929	374.693	313.639	993	C - Energy pr	map00190 Ox
1398.299	1270.128	211.835	1688.954	807.692	428.815	359.985	993	C - Energy pr	map00190 Ox
2257.208	2310.489	397.805	2961.986	1796.898	785.071	695.936	993	C - Energy pr	map00190 Ox
5610.002	6517.03	1018.543	6459.195	7533.424	2701.184	2183.517	993	C - Energy pr	map00190 Ox
4296.361	5345.299	1114.233	6725.884	6989.657	2783.144	2438.1	993	C - Energy pr	map00190 Ox
147.237	170.386	60.442	157.32	193.747	63.585	67.357	993	C - Energy pr	map01062 Bi
81.631	94.706	43.277	94.602	143.417	61.356	67.031	993	C - Energy production and	

647.355	890.78	339.223	1310.345	654.288	191.548	176.068	993	C - Energy production and
138.27	163.639	120.588	159.235	316.481	86.225	114.322	993	C - Energy production and
100.994	130.752	22.692	101.759	109.427	39.64	42.899	993	C - Energy pr map00720 Ca
185.228	111.671	130.751	428.871	687.959	27.815	38.524	993	C - Energy pr map00190 Ox
58.962	53.166	47.695	83.12	106.153	34.824	41.108	993	C - Energy pr map00630 Gl
66.404	59.307	38.543	89.449	137.943	30.892	37.881	993	C - Energy pr map00720 Ca
7.812	11.269	9.94	19.742	25.078	6.149	9.137	993	C - Energy production and
96.268	72.928	40.925	72.137	121.898	35.254	47.634	993	C - Energy pr map00564 Gl
9.123	11.183	7.335	19.772	10.756	6.601	6.076	993	C - Energy production and
274.947	308.681	190.814	304.105	429.567	167.043	225.428	993	C - Energy production and
27.787	38.998	13.636	61.661	64.195	17.359	13.097	993	C - Energy pr map00630 Gl
54.876	67.896	52.405	62.613	75.99	58.736	48.641	993	C - Energy pr map00626 Na
288.131	129.268	96.221	137.664	189.88	95.609	97.807	993	C - Energy pr map00190 Ox
236.687	96.978	87.399	128.042	148.837	78.782	93.115	993	C - Energy pr map00190 Ox
62.585	62.333	27.73	81.226	162.3	25.212	24.987	993	C - Energy pr map00720 Ca
15.844	8.719	10.732	21.247	28.193	9.192	13.207	993	C - Energy production and
17.643	32.851	17.27	34.532	32.837	22.997	17.376	993	C - Energy production and
9.053	15.081	8.362	22.646	21.823	5.308	6.602	993	C - Energy production and
33.481	28.645	48.186	40.312	43.589	30.02	33.776	993	C - Energy production and
506.45	301.044	203.486	386.69	634.547	206.153	130.494	993	C - Energy pr map00190 Ox
519.797	279.206	209.101	381.222	381.682	230.547	155.285	993	C - Energy pr map00190 Ox
310.83	208.226	114.267	305.271	310.125	133.018	87.1	993	C - Energy pr map00190 Ox
394.898	812.012	106.831	972.108	338.205	280.688	173.208	993	C - Energy pr map00195 Ph
250.566	297.091	139.84	268.848	360.59	282.646	191.918	993	C - Energy pr map00195 Ph
19.923	30.83	467.331	71.092	21.788	27.722	20.03	993	C - Energy pr map00190 Ox
144.163	205.148	70.558	181.137	222.406	86.056	85.785	993	C - Energy pr map01062 Bi
60.248	57.073	3.261	159.7	40.127	15.384	21.191	993	C - Energy pr map00910 Ni
72.467	64.335	70.144	56.111	102.971	43.677	30.644	993	C - Energy pr map00720 Ca
272.803	145.18	113.993	151.871	245.889	137.599	100.52	993	C - Energy pr map00760 Ni

195.782	133.849	97.557	190.351	179.629	133.763	107.691	993	C - Energy pr map00760 Ni
15.572	30.422	19.559	29.347	33.308	32.913	20.898	993	C - Energy production and
176.822	133.317	296.261	136.463	191.452	186.598	219.034	993	C - Energy production and
90.918	74.114	85.734	66.516	145.713	101.301	106.137	993	C - Energy production and
27.745	32.433	10.075	55.871	47.132	17.904	11.802	993	C - Energy production and
1004.46	910.987	260.72	735.53	804.755	375.109	376.584	993	C - Energy pr map00195 Ph
41.916	47.285	52.488	69.445	62.868	31.168	30.18	993	C - Energy production and
34.367	34.671	26.81	46.439	65.704	17.254	20.707	993	C - Energy pr map00196 Ph
297.734	159.79	268.331	234.885	476.348	132.058	126.498	993	C - Energy production and
10.035	14.576	10.43	31.579	27.711	7.211	9.081	993	C - Energy production and
61.682	69.75	62.936	76.116	122.396	64.975	54.092	993	C - Energy pr map00720 Ca
69.426	44.537	66.385	86.119	163.576	33.108	38.74	993	C - Energy pr map00190 Ox
72.423	18.953	17.999	37.03	283.548	12.962	18.021	993	C - Energy pr map00190 Ox
55.297	44.978	38.476	74.328	94.558	22.799	25.637	993	C - Energy production and
12.069	28.018	9.006	38.234	34.109	9.487	6.861	993	C - Energy production and
191.826	291.164	119.511	345.61	502.507	97.913	99.565	993	C - Energy production and
413.058	460.336	651.891	433.508	544.092	233.218	257.213	993	C - Energy pr map00190 Ox
9.852	10.792	2.244	10.306	4.321	6.417	5.397	993	C - Energy production and
139.853	144.618	98.772	141.919	188.435	93.6	73.665	993	C - Energy pr map00190 Ox
87.288	97.67	59.47	93.847	110.143	55.545	36.523	993	C - Energy pr map00190 Ox
34.313	51.616	33.079	49.895	86.68	48.919	29.393	993	C - Energy production and
1792.223	1924.562	340.37	2064.673	1832.903	478.817	531.622	993	C - Energy pr map00190 Ox
1159.087	1153.833	164.453	1419.909	1143.351	263.123	243.242	993	C - Energy pr map00190 Ox
62.13	52.699	25.412	53.44	66.192	59.895	31.007	993	C - Energy production and
111.903	52.048	33.706	49.551	81.643	84.679	37.615	993	C - Energy production and
130.773	60.028	50.011	61.133	99.953	120.717	50.523	993	C - Energy pr map00190 Ox
119.235	36.676	40.345	42.585	90.778	88.461	35.071	993	C - Energy pr map00190 Ox
187.137	61.069	63.096	63.059	222.45	169.196	63.871	993	C - Energy pr map00190 Ox
61.857	84.491	40.043	103.689	143.194	35.462	35.134	993	C - Energy production and

162.799	171.271	153.74	156.199	236.048	141.466	128.398	993	C - Energy pr map00190 Ox
76.333	125.058	155.113	231.812	132.683	85.271	88.835	993	C - Energy production and
145.02	306.183	230.55	464.602	461.594	110.195	110.425	993	C - Energy production and
626.994	425.902	1322.067	439.326	560.961	1122.773	999.215	993	C - Energy pr map00195 Ph
187.94	180.366	218.922	150.613	382.278	154.591	165.014	993	C - Energy pr map00195 Ph
265.746	257.059	600.495	291.538	476.268	107.498	98.522	993	C - Energy pr map00190 Ox
342.85	297.05	465.682	360.4	522.552	119.308	113.204	993	C - Energy pr map00190 Ox
459.591	416.872	684.692	435.543	592.429	190.766	173.477	993	C - Energy pr map00190 Ox
1070.146	2252.365	703.629	944.124	1454.165	960.969	792.181	993	C - Energy pr map01110 Bi
193.021	176.738	253.686	131.671	187.684	202.462	194.07	993	C - Energy pr map00561 Gl
188.702	12.68	15.182	30.17	44.454	9.517	17.492	993	C - Energy pr map00564 Gl
222.422	41.587	42.96	44.3	56.273	34.75	51.868	993	C - Energy pr map04626 Pl
59.547	103.581	35.12	112.565	217.543	18.199	15.382	993	C - Energy production and
64.425	95.909	232.947	112.731	62.095	46.208	46.344	993	C - Energy production and
84.266	76.524	52.304	106.666	210.513	33.918	48.482	993	C - Energy pr map00720 Ca
36.267	37.334	37.607	49.379	77.284	26.152	26.809	993	C - Energy pr map01062 Bi
121.325	120.9	78.7	108.045	153.674	67.259	73.641	993	C - Energy pr map00720 Ca
257.949	391.394	76.178	296.525	825.128	72.399	87.922	993	C - Energy pr map00190 Ox
15.202	8.957	17.652	28.16	26.392	10.706	12.938	993	C - Energy production and
320.762	322.16	180.074	229.533	208.961	621.292	288.93	993	C - Energy production and
363.09	380.073	174.521	294.096	236.409	640.787	304.315	993	C - Energy pr map00195 Ph
22.187	35.326	21.793	35.139	40.248	19.283	18.049	993	C - Energy pr map00906 Ca
46.665	48.34	31.214	62.052	71.907	22.404	24.77	993	C - Energy pr map00680 M
227.042	334.355	107.037	269.753	433.914	102.764	120.86	993	C - Energy pr map01062 Bi
279.295	278.582	217.06	228.649	344.918	214.48	188.467	993	C - Energy pr map01062 Bi
33.579	40.619	59.857	79.186	47.141	15.495	19.445	993	C - Energy production and
5098.134	5669.097	1726.845	2669.925	4967.555	5817.859	4669.987	993	C - Energy pr map00195 Ph
653.562	710.223	603.212	480.587	651.194	886.258	620.112	993	C - Energy pr map00190 Ox
143.831	148.431	196.015	146.501	216.776	153.818	135.735	993	C - Energy pr map00650 Bu

115.903	172.273	190.353	79.357	69.109	314.645	288.378	993	C - Energy pr map01110 Bi
3248.074	2593.538	2040.205	2416.685	2085.61	2281.523	1874.658	993	C - Energy pr map00195 Ph
2575.276	2233.096	2001.172	1943.18	1592.632	2347.234	2068.949	993	C - Energy pr map00195 Ph
1749.71	2896.059	1992.875	4175.569	2063.817	1198.266	785.637	993	C - Energy pr map00630 Gl
10100.119	9429.961	1815.324	7384.271	15715.134	3335.642	1820.746	993	C - Energy pr map00195 Ph
27.119	47.165	10.238	34.634	53.615	17.766	9.305	993	C - Energy pr map00720 Ca
2373.635	1048.798	837.506	359.684	2683.174	753.601	661.615	993	C - Energy pr map00195 Ph
62.101	63.212	78.181	58.235	75.098	37.838	40.249	993	C - Energy pr map00630 Gl
134.07	124.144	150.974	119.773	162.74	103.222	103.868	993	C - Energy pr map00630 Gl
65.404	39.621	39.774	50.074	85.897	25.612	26.868	993	C - Energy pr map00680 M
6.39	8.87	7.201	20.466	18.471	5.085	4.076	993	C - Energy pr map01110 Bi
228.981	277.133	312.924	204.839	398.966	279.661	213.812	993	C - Energy pr map00630 Gl
103.008	107.553	68.449	119.913	143.143	59.825	56.229	993	C - Energy production and
89.267	200.973	92.737	208.57	144.495	81.814	84.727	993	C - Energy pr map00720 Ca
6.229	10.616	5.166	19.78	19.221	4.509	2.777	993	C - Energy pr map00310 Ly
21.059	48.74	26.93	59.338	68.239	27.767	13.94	993	C - Energy production and
46.512	58.274	44.144	42.039	29.182	60.021	45.189	993	C - Energy production and
579.209	818.531	939.997	489.175	309.988	639.135	709.99	993	C - Energy production and
18.106	27.716	11.117	46.035	42.223	7.164	8.235	993	C - Energy pr map00906 Ca
38.124	16.594	14.264	22.859	28.458	52.078	14.581	993	C - Energy pr map00720 Ca
59.781	56.297	79.222	74.151	111.529	60.016	78.367	993	C - Energy production and
90.286	140.387	62.337	159.25	138.732	57.268	77.971	993	C - Energy pr map00190 Ox
12.264	9.071	27.826	22.65	31.403	12.49	14.65	993	C - Energy production and
272.317	288.489	410.622	355.047	329.157	144.37	148.645	993	C - Energy pr map00190 Ox
424.906	569.27	827.39	527.659	603.932	285.794	266.289	993	C - Energy pr map00190 Ox
344.074	400.75	696.892	413.929	346.986	238.115	216.262	993	C - Energy pr map00190 Ox
510	570.079	1179.87	529.722	554.395	318.941	280.941	993	C - Energy pr map00190 Ox
19.219	17.008	14.867	18.274	27.312	11.269	11.566	993	C - Energy production and
108.935	89.5	98.319	96.137	61.64	72.284	78.769	993	C - Energy pr map00720 Ca

92.508	71.719	52.504	75.747	128.845	55.924	43.436	993	C - Energy pr map00190 O
52.532	42.747	14.128	36.348	20.785	70.953	20.373	993	C - Energy pr map01110 Bi
31.481	22.448	19.95	54.946	78.652	22.727	13.964	993	C - Energy pr map00195 Ph
13.474	6.869	12.796	17.228	7.176	12.976	22.41	993	C - Energy production and
13.731	17.588	8.72	26.746	23.695	15.815	10.663	993	C - Energy pr map00190 O
81.86	124.553	43.659	110.727	148.919	38.192	51.062	993	C - Energy pr map01110 Bi
56.658	89.925	43.837	72.771	63.909	44.75	47.264	993	C - Energy pr map01110 Bi
25.52	35.718	9.556	42.571	40.557	8.539	11.994	993	C - Energy production and
89.031	97.04	164.204	117.744	154.886	71.327	76.725	993	C - Energy pr map01110 Bi
34.178	30.567	27.48	50.383	106.424	34.376	27.633	993	C - Energy pr map00620 Py
18.102	24.246	13.803	32.744	40.899	14.983	14.674	993	C - Energy production and
262.708	219.042	221.589	206.674	302.288	182.467	178.68	993	C - Energy production and
168.937	126.363	81.657	239.786	237.965	74.052	102.155	993	C - Energy production and
11.071	19.457	42.152	31.804	14.551	15.795	16.785	993	C - Energy pr map00190 O
74.492	58.809	76.102	63.9	52.962	54.283	55.745	993	C - Energy pr map00190 O
32.065	66.004	1169.915	127.131	33.316	36.018	31.089	993	C - Energy pr map00190 O
693.768	516.912	328.446	525.415	812.312	447.45	378.633	993	C - Energy pr map00190 O
152.692	222.697	95.788	277.765	333.474	100.649	123.602	993	C - Energy pr map00190 O
1180.006	1881.958	700.412	2769.947	1475.62	424.511	365.136	993	C - Energy production and
930.288	1507.372	491.173	2260.342	1191.431	326.662	291.849	993	C - Energy production and
2012.914	3258.096	1362.686	4521.582	3246.178	875.742	828.64	993	C - Energy production and
184.338	294.213	142.739	240.251	425.062	167.788	164.915	993	C - Energy production and
254.998	526.81	138.422	618.068	824.914	227.847	233.795	993	C - Energy production and
78.369	59.929	100.719	85.086	116.251	61.79	80.008	993	C - Energy production and
15.378	11.706	1151.436	28.234	18.695	12.64	7.885	993	C - Energy production and
40.786	24.675	1567.122	39.521	39.486	40.03	35.002	993	C - Energy production and
8.989	6.439	7.568	16.005	56.335	9.624	5.95	993	C - Energy pr map00720 Ca
56.346	19.76	26.601	35.128	57.725	19.2	24.372	993	C - Energy production and
178.686	114.392	273.223	95.726	126.499	113.443	101.431	993	C - Energy production and

14.054	19.625	15.267	37.485	31.993	10.539	11.412	993	C - Energy production and
74.676	86.892	64.196	91.152	111.987	44.729	38.531	993	D - Cell cycle control, cell d
36.257	24.487	26.792	55.44	119.936	22.018	20.728	993	D - Cell cycle control, cell d
76.357	105.232	98.614	83.951	119.156	71.004	89.538	993	D - Cell cycle control, cell d
31.767	35.738	13.72	40.404	52.303	13.606	13.504	993	D - Cell cycle control, cell d
199.181	187.548	87.408	110.512	187.22	82.681	95.648	993	D - Cell cycle control, cell d
19.832	26.865	14.597	27.076	35.202	17.293	17.291	993	D - Cell cycle control, cell d
647.53	562.285	424.132	610.524	776.634	309.243	472.707	993	D - Cell cycle map04112 Ce
125.059	113.925	106.08	128.545	216.424	71.62	71.891	993	D - Cell cycle control, cell d
20.135	34.5	32.196	44.576	37.781	39.537	27.094	993	D - Cell cycle control, cell d
155.778	193.622	123.294	147.972	267.007	151.752	155.481	993	D - Cell cycle map04112 Ce
5.09	15.287	20.151	20.697	15.625	10.673	12.083	993	D - Cell cycle control, cell d
35.568	34.776	48.334	44.669	95.076	39.736	51.797	993	D - Cell cycle control, cell d
58.424	43.971	71.769	72.679	68.565	50.79	56.809	993	D - Cell cycle control, cell d
20.486	14.726	30.445	23.339	33.701	18.876	12.144	993	D - Cell cycle control, cell d
44.804	38.189	52.714	44.024	66.151	24.113	27.572	993	D - Cell cycle control, cell d
85.747	91.985	60.442	97	153.168	55.569	61.702	993	D - Cell cycle control, cell d
90.772	78.466	71.194	77.322	92.2	49.733	60.696	993	D - Cell cycle control, cell d
167.282	233.407	91.935	226.075	389.641	90.785	110.801	993	D - Cell cycle control, cell d
31.87	21.665	28.429	33.89	25.354	31.215	39.95	993	D - Cell cycle control, cell d
75.632	75.114	50.255	123.222	163.216	43.428	54.781	993	D - Cell cycle control, cell d
80.621	147.913	50.894	140.098	185.544	48.066	45.519	993	D - Cell cycle control, cell d
105.636	195.199	71.737	181.839	234.284	92.521	96.355	993	D - Cell cycle control, cell d
79.763	68.171	20.349	92.269	122.972	25.793	26.361	993	D - Cell cycle control, cell d
71.581	66.819	56.465	109.206	107.641	51.07	43.753	993	D - Cell cycle control, cell d
51.848	48.648	68.863	52.572	85.181	73.097	49.62	993	D - Cell cycle control, cell d
6.371	18.38	11.289	24.158	21.22	8.281	9.639	993	D - Cell cycle control, cell d
5.414	8.877	5.969	16.001	12.471	7.458	6.738	993	D - Cell cycle control, cell d
19.695	24.102	4.463	32.585	50.256	8.747	7.503	993	D - Cell cycle control, cell d

26.89	36.396	10.958	71.768	67.258	19.079	14.468	993	D - Cell cycle control, cell d
51.656	78.861	45.182	127.329	143.237	42.905	45.393	993	D - Cell cycle control, cell d
2.766	4.173	5.075	16.093	6.624	2.549	1.831	993	D - Cell cycle control, cell d
31.952	28.574	19.921	42.638	60.132	24.757	17.882	993	D - Cell cycle control, cell d
33.1	66.899	50.426	77.305	42.506	125.801	59.393	993	D - Cell cycle control, cell d
31.06	43.91	13.88	83.307	76.605	22.789	15.611	993	D - Cell cycle control, cell d
33.1	66.859	50.385	77.266	42.506	125.837	59.393	993	D - Cell cycle control, cell d
18.538	51.154	7.415	55.423	63.941	28.512	16.426	993	D - Cell cycle control, cell d
22.566	15.005	18.781	19.733	26.459	15.704	21.929	993	D - Cell cycle control, cell d
42.47	69.451	37.025	83.985	89.182	34.509	32.221	1980	E - Amino aci map00330 Ar
115.444	79.373	75.043	89.65	313.808	40.26	61.463	993	E - Amino acid transport ar
66.409	60.177	38.281	50.878	65.435	33.649	36.087	993	E - Amino aci map01120 M
67.246	75.492	55.421	74.862	72.066	77.97	78.953	993	E - Amino acid transport ar
68.787	51.404	35.578	57.636	87.884	23.89	29.372	993	E - Amino aci map00270 Cy
66.468	48.747	72.125	73.094	97.589	37.756	49.05	993	E - Amino aci map00730 Th
10.591	9.017	14.005	14.175	10.894	7.104	8.557	993	E - Amino acid transport ar
103.605	128.754	68.542	136.943	165.922	58.061	53.737	993	E - Amino aci map00330 Ar
9.842	15.128	8.171	25.078	31.208	5.64	7.071	993	E - Amino aci map00310 Ly
59.784	60.354	37.933	51.182	83.456	28.172	34.727	993	E - Amino aci map00250 Al
53.478	23.457	53.943	26.355	44.036	29.422	59.338	993	E - Amino acid transport ar
31.34	50.443	31.066	57.001	71.29	20.284	28.336	993	E - Amino aci map01110 Bi
85.484	67.22	77.149	64.291	128.785	70.502	79.621	993	E - Amino aci map01110 Bi
111.037	163.987	52.343	147.491	237.602	73.424	60.948	993	E - Amino aci map00260 Gl
17.636	19.134	15.584	29.223	34.24	16.045	15.009	993	E - Amino acid transport ar
587.958	480.21	633.933	548.162	473.194	484.942	418.858	993	E - Amino aci map01110 Bi
109.315	98.534	96.273	109.869	266.537	51.553	61.059	993	E - Amino acid transport ar
29.685	25.917	52.259	33.972	48.855	38.514	34.235	993	E - Amino aci map01110 Bi
84.857	118.291	126.955	107.306	71.03	120.256	101.581	993	E - Amino aci map00910 Ni
498.95	455.2	40.035	522.815	221.596	231.049	222.295	993	E - Amino aci map00910 Ni

180.241	121.476	54.926	137.451	163.307	82.579	69.023	993	E - Amino aci map00650 Bu
185.435	234.355	175.718	242.042	449.995	154.307	185.912	993	E - Amino aci map01110 Bi
156.294	159.946	132.444	117.093	167.28	106.726	114.692	993	E - Amino aci map00791 At
38.009	50.663	37.676	47.174	78.817	42.21	38.762	993	E - Amino aci map00330 Ar
330.446	362.115	256.511	277.216	348.986	260.134	241.964	993	E - Amino aci map00260 Gl
224.609	157.269	117.021	138.36	288.18	101.64	101.504	993	E - Amino aci map01064 Bi
72.869	113.806	301.355	140.554	179.807	91.127	91.947	993	E - Amino aci map00250 Al
118.766	168.86	56.087	122.808	237.391	65.751	72.915	993	E - Amino aci map01110 Bi
15.972	38.367	9.661	48.491	22.255	23.752	23.113	993	E - Amino aci map00330 Ar
28.038	35.156	20.725	42.885	55.509	18.396	21.852	993	E - Amino acid transport ar
61.798	75.91	21.392	76.31	64.737	31.254	34.842	993	E - Amino aci map01064 Bi
118.429	212.332	10.394	221.924	76.71	122.26	168.057	993	E - Amino aci map02010 AE
68.978	134.991	14.361	145.517	70.707	72.086	93.004	993	E - Amino aci map02010 AE
485.069	247.067	325.988	241.153	524.744	316.442	337.553	993	E - Amino aci map01110 Bi
34.297	35.203	17.742	45.905	63.061	17.51	20.248	993	E - Amino aci map00260 Gl
78.099	117.747	79.351	119.81	103.237	60.237	64.622	993	E - Amino aci map01110 Bi
89.591	144.879	47.025	100.603	184.336	52.883	56.177	993	E - Amino aci map00270 Cy
174.201	253.801	60.112	190.363	348.832	123.887	90.964	993	E - Amino acid transport ar
22.823	18.879	12.817	41.501	24.862	12.388	10.877	993	E - Amino acid transport ar
204.641	251.546	82.768	163.714	398.732	113.293	113.631	993	E - Amino acid transport ar
38.031	41.502	30.806	47.327	88.651	13.727	13.578	993	E - Amino aci map00330 Ar
116.522	119.827	61.224	117.042	190.763	68.251	81.539	993	E - Amino aci map01110 Bi
54.026	54.585	55.084	57.962	70.727	53.44	47.474	993	E - Amino aci map00260 Gl
76.535	76.944	60.862	162.297	252.918	32.872	39.732	993	E - Amino aci map02010 AE
66.101	81.788	86.807	84.527	124.221	68.911	68.566	993	E - Amino aci map00720 Ca
52.603	53.976	30.32	57.275	76.68	21.97	27.359	993	E - Amino acid transport ar
26.841	34.898	29.839	48.35	47.541	19.268	21.175	993	E - Amino aci map02010 AE
443.405	493.587	717.618	597.723	1124.317	320.364	517.199	993	E - Amino aci map00260 Gl
182.779	119.177	147.913	131.342	230.863	136.992	165.373	993	E - Amino aci map02010 AE

51.767	64.124	38.017	69.626	70.616	30.39	31.925	993	E - Amino aci map02010 AE
97.207	132.026	79.772	109.762	358.44	92.481	71.961	993	E - Amino aci map00791 At
55.016	63.978	46.354	106.287	175.672	36.509	43.053	993	E - Amino aci map01064 Bi
27.013	53.353	42.833	81.922	97.477	37.49	33.717	993	E - Amino acid transport ar
21.021	36.423	23.688	36.654	35.645	13.03	17.71	993	E - Amino acid transport ar
7.958	6.66	10.107	29.075	16.681	8.066	9.131	993	E - Amino aci map02010 AE
23.435	32.64	21.857	47.952	48.315	15.512	16.648	993	E - Amino acid transport ar
51.541	79.494	86.918	72.971	70.078	78.251	95.787	993	E - Amino aci map00910 Ni
22.719	35.824	23.61	64.465	65.82	23.896	22.249	993	E - Amino aci map01110 Bi
79.609	93.563	56.416	83.881	105.316	39.488	46.842	993	E - Amino aci map00480 Gl
42.207	73.096	35.056	61.563	82.772	28.169	35.056	993	E - Amino aci map01110 Bi
22.155	22.197	23.51	50.202	47.725	13.337	21.9	993	E - Amino acid transport ar
37.413	51.672	46.63	77.659	78.151	26.764	38.609	993	E - Amino aci map00270 Cy
38.914	48.964	47.423	47.087	44.649	31.871	30.823	993	E - Amino aci map01110 Bi
257.413	191.557	155.011	194.242	497.437	137.005	154.188	993	E - Amino aci map01064 Bi
145.393	124.786	103.814	118.324	127.031	102.123	103.903	993	E - Amino aci map02010 AE
3.509	6.692	5.744	14.117	11.432	4.85	5.291	993	E - Amino acid transport ar
76.732	88.491	47.823	84.784	124.166	77.713	58.313	993	E - Amino aci map00590 Ar
88.355	106.858	81.911	107.023	141.678	49.894	63.456	993	E - Amino aci map00260 Gl
221.539	251.446	154.611	206.899	415.973	147.134	170.084	993	E - Amino aci map01110 Bi
42.193	44.158	76.636	50.782	59.621	51.037	54.736	993	E - Amino aci map01110 Bi
317.708	512.959	176.999	394.045	533.064	140.492	171.102	993	E - Amino acid transport ar
50.2	113.251	47.302	129.153	125.569	53.248	59.492	993	E - Amino aci map02010 AE
38.168	56.51	61.021	86.101	111.24	49.649	53.689	993	E - Amino acid transport ar
88.698	80.325	36.561	85.277	131.933	31.603	44.121	993	E - Amino aci map01110 Bi
30.984	73.059	22.179	125.762	87.689	17.518	20.393	993	E - Amino aci map00910 Ni
187.437	185.889	109.419	220.164	582.774	108.57	107.022	993	E - Amino aci map00791 At
191.893	602.02	52.687	459.579	110.282	587.606	314.009	993	E - Amino aci map02010 AE
57.474	76.469	70.422	91.285	81.216	32.802	30.835	993	E - Amino aci map00260 Gl

34.932	46.85	43.081	99.748	107.679	33.507	41.252	993	E - Amino acid transport ar
2192.724	3122.184	1260.461	1788.168	4127.499	2237.577	1788.623	993	E - Amino aci map02020 Tw
15.916	15.494	16.171	39.069	53.603	8.066	7.024	993	E - Amino aci map01110 Bi
80.912	131.587	61.874	116.217	149.438	55.25	53.508	993	E - Amino aci map02010 AE
49.551	82.156	67.038	77.559	66.955	37.118	40.717	993	E - Amino acid transport ar
20.792	24.259	23.341	36.123	37.084	15.929	13.196	993	E - Amino aci map00260 Gl
157.475	224.629	309.053	127.01	151.731	228.144	222.523	993	E - Amino aci map01110 Bi
122.13	98.765	48.964	73.433	181.597	52.514	45.739	993	E - Amino aci map04011 M
19.29	23.227	25.547	22.182	28.955	23.721	14.905	993	E - Amino aci map00730 Th
19.078	39.981	20.509	33.123	90.788	23.078	22.813	993	E - Amino aci map00260 Gl
140.336	132.328	244.99	149.491	361.995	171.869	208.956	993	E - Amino acid transport ar
10.633	29.3	29.117	14.657	16.858	30.886	28.327	993	E - Amino acid transport ar
19.487	42.349	27.57	60.377	59.958	24.528	27.552	993	E - Amino aci map01064 Bi
119.242	109.519	93.229	95.408	142.608	75.488	76.023	993	E - Amino aci map00710 Ca
261.861	288.323	159.25	249.775	485.864	181.645	170.11	993	E - Amino aci map00310 Ly
116.342	176.541	112.429	205.446	351.17	138.634	156.67	993	E - Amino aci map00650 Bu
33.057	68.859	19.602	48.048	77.497	28.461	24.824	993	E - Amino aci map02010 AE
206.228	143.026	165.228	146.652	360.053	187.855	182.321	993	E - Amino aci map00330 Ar
90.421	86.277	43.453	79.382	108.195	42.921	43.86	993	E - Amino aci map00260 Gl
21.679	16.973	9.899	20.738	31.752	12.737	10.642	993	E - Amino aci map02010 AE
86.909	163.349	93.378	117.568	377.951	69.586	76.449	993	E - Amino aci map02010 AE
60.972	69.954	40.189	86.325	84.078	30.156	35.088	993	E - Amino aci map00330 Ar
46.169	83.446	97.248	73.655	63.903	45.561	57.587	993	E - Amino aci map00450 Se
0.88	1.353	0.447	5.599	3.11	1.217	0	993	E - Amino acid transport ar
277.129	414.024	250.695	310.807	333.96	201.934	200.898	993	E - Amino aci map02010 AE
75.441	94.519	63.281	112.856	161.546	51.933	50.149	993	E - Amino acid transport ar
36.43	112.625	82.579	184.462	77.412	12.46	18.451	993	E - Amino aci map00450 Se
47.874	90.764	41.536	104.227	201.429	49.728	33.233	993	E - Amino aci map00540 Lip
293.112	408.927	320.195	318.577	710.84	372.564	298.466	993	E - Amino aci map01064 Bi

65.666	83.652	85.88	70.727	118.663	75.218	81.649	993	E - Amino aci map01110 Bi
79.983	83.087	104.902	73.556	95.125	85.111	84.565	993	E - Amino aci map01110 Bi
161.201	179.814	77.819	172.481	133.374	73.163	86.688	993	E - Amino aci map01110 Bi
54.792	77.753	70.469	95.636	137.976	43.618	44.958	993	E - Amino aci map01110 Bi
39.345	49.527	26.973	65.996	82.008	23.583	25.453	993	E - Amino acid transport ar
233.739	261.604	192.062	226.072	439.961	320.538	232.235	993	E - Amino aci map01110 Bi
13.979	18.201	6.189	26.669	27.636	6.381	8.404	993	E - Amino acid transport ar
88.97	78.332	47.812	74.013	103.237	45.168	46.344	993	E - Amino aci map00330 Ar
14.226	13.509	17.708	22.886	22.102	11.323	11.832	993	E - Amino acid transport ar
86.153	78.528	46.592	90.962	99.645	41.74	46.556	993	E - Amino aci map01110 Bi
170.696	213.831	261.468	223.619	344.468	150.344	154.473	993	E - Amino aci map00260 Gl
152.098	146.416	106.78	114.99	207.488	92.937	102.05	993	E - Amino aci map01110 Bi
110.957	126.959	48.115	123.672	211.844	49.849	59.597	993	E - Amino aci map01110 Bi
35.328	52.792	25.724	39.853	64.62	18.897	20.267	993	E - Amino aci map01110 Bi
219.766	235.788	195.35	358.911	328.951	166.107	185.298	993	E - Amino aci map00260 Gl
44.205	47.179	49.425	43.292	51.048	26.302	28.775	993	E - Amino aci map00480 Gl
92.68	108.404	95.657	104.522	98.542	62.379	70.926	993	E - Amino aci map01110 Bi
52.488	80.281	64.672	74.493	57.164	36.739	40.503	993	E - Amino aci map00260 Gl
56.223	64.365	46.997	64.057	67.145	31.524	31.669	993	E - Amino acid transport ar
83.89	89.183	62.549	98.323	179.959	44.44	58.401	993	E - Amino aci map01110 Bi
94.904	80.741	55.336	76.863	134.284	52.605	47.019	993	E - Amino aci map00330 Ar
118.334	125.731	139.678	140.357	104.289	73.02	90.618	993	E - Amino aci map00910 Ni
24.356	40.402	29.31	35.654	44.29	24.281	32.112	993	E - Amino aci map01110 Bi
137.215	142.16	93.824	117.45	202.881	85.884	86.094	993	E - Amino aci map01110 Bi
72.463	100.147	75.764	103.944	117.186	53.756	63.874	993	E - Amino aci map01110 Bi
237.668	258.847	256.232	251.871	396.826	187.538	214.526	993	E - Amino aci map01110 Bi
31.523	38.136	37.645	45.546	78.127	28.36	32.337	993	E - Amino acid transport ar
272.363	403.865	120.553	352.094	639.948	160.983	133.012	993	E - Amino aci map01110 Bi
12.503	18.109	35.816	26.494	21.652	55.52	56.252	993	E - Amino aci map00330 Ar

149.134	134.006	35.39	173.261	435.513	37.191	55.436	993	E - Amino aci map01110 Bi
5.394	5.103	6.324	19.492	18.764	7.647	7.142	993	E - Amino acid transport ar
4.289	5.398	5.887	20.988	10.315	5.131	6.874	993	E - Amino aci map04122 Su
9.746	9.986	7.266	13.686	9.479	5.423	6.451	993	E - Amino acid transport ar
30.649	31.478	40.199	44.104	63.39	38.637	43.62	993	E - Amino acid transport ar
47.563	105.569	88.279	113.37	85.452	54.075	96.926	993	E - Amino aci map00250 Al
476.582	525.25	350.616	446.98	909.031	406.665	366.247	993	E - Amino aci map01110 Bi
202.578	223.341	144.924	183.93	438.95	147.547	158.889	993	E - Amino aci map00250 Al
103.398	111.82	55.023	98.539	188.232	45.687	42.732	993	E - Amino aci map00250 Al
200.281	246.963	122.041	201.508	251.753	150.058	114.682	993	E - Amino aci map01110 Bi
37.735	44.602	62.681	100.907	129.462	31.373	27.302	993	E - Amino acid transport ar
120.925	162.975	54.329	125.598	155.958	101.429	78.724	993	E - Amino aci map01110 Bi
27.188	39.17	25.027	67.88	74.375	15.523	19.843	993	E - Amino aci map01120 M
76.706	87.31	46.127	106.438	141.532	49.364	56.544	993	E - Amino aci map00790 Fc
263.466	318.724	163.037	303.36	330.29	157.111	145.715	993	E - Amino aci map00260 Gl
250.59	311.334	319.324	267.941	309.824	273.963	262.078	993	E - Amino aci map00650 Bu
111.866	103.123	184.038	92.912	164.705	119.393	115.436	993	E - Amino aci map00650 Bu
50.81	72.406	45.518	111.207	140.894	37.251	48.702	993	E - Amino aci map00260 Gl
13.149	17.21	11.477	27.256	41.046	7.82	7.438	993	E - Amino aci map01110 Bi
53.312	86.027	35.631	133.635	180.952	43.573	37.517	993	E - Amino aci map01110 Bi
92.093	67.639	61.99	75.672	121.451	54.016	46.474	993	E - Amino aci map00730 Th
150.362	175.281	117.568	230.006	248.824	102.332	114.989	993	E - Amino aci map01110 Bi
271.133	654.501	234.176	609.683	500.916	240.365	217.357	993	E - Amino aci map01110 Bi
4.506	5.304	6.93	15.077	9.552	6.116	6.933	993	E - Amino acid transport ar
199.002	202.341	183.818	341.578	294.661	140.997	166.683	993	E - Amino aci map01110 Bi
36.953	40.961	42.87	38.509	52.594	28.892	38.808	993	E - Amino aci map02010 AE
42.143	42.579	20.609	77.954	87.657	18.689	21.248	993	E - Amino aci map02010 AE
16.5	23.248	24.274	22.286	30.602	11.64	13.084	993	E - Amino aci map02010 AE
44.976	45.767	32.765	50.509	74.368	24.677	26.877	993	E - Amino aci map02010 AE

12.31	8.908	9.563	20.009	10.384	7.903	9.79	993	E - Amino aci map00480 Gl
195.819	181.896	166.463	153.268	233.671	139.496	124.766	993	E - Amino aci map01064 Bi
131.363	145.575	68.863	136.698	162.503	131.471	74.737	993	E - Amino acid transport ar
13.071	17.071	13.975	31.603	33.44	8.187	7.239	993	E - Amino aci map00130 Ul
105.08	159.026	82.853	167.131	113.022	72.217	77.837	993	E - Amino acid transport ar
114.731	228.362	29.019	117.695	196.169	152.795	54.918	993	E - Amino acid transport ar
38.839	142.49	85.37	133.135	68.023	270.46	180.762	993	E - Amino acid transport ar
208.563	357.954	121.21	165.061	253.027	227.457	230.632	993	E - Amino acid transport ar
25.982	20.043	7.489	20.212	28.361	8.876	10.049	993	E - Amino acid transport ar
28.754	58.126	24.345	47.759	41.599	40.191	25.896	993	E - Amino aci map02010 AE
31.289	37.598	26.924	67.623	60.201	33.243	30.899	993	E - Amino acid transport ar
23.22	32.284	17.393	41.792	62.277	25.841	29.294	993	E - Amino acid transport ar
263.003	220.863	40.526	185.796	246.722	126.837	79.697	993	E - Amino acid transport ar
39.74	59.366	25.134	59.35	75.1	28.234	32.75	993	F - Nucleotid map01110 Bi
76.837	91.092	39.072	89.369	103.67	40.902	40.136	993	F - Nucleotid map01110 Bi
23.45	26.509	26.899	45.155	51.949	13.8	21.03	993	F - Nucleotid map00230 Pu
27.775	42.8	11.633	63.906	61.419	12.112	8.982	993	F - Nucleotide transport an
71.212	59.255	51.953	86.456	181.018	41.934	57.595	993	F - Nucleotid map00240 Py
39.233	56.028	24.104	54.407	95.836	27.612	32.104	993	F - Nucleotid map00240 Py
1855.373	995.621	130.776	1436.883	1298.04	468.328	943.93	993	F - Nucleotide transport an
38.461	45.198	6.695	60.01	80.192	13.506	11.038	993	F - Nucleotid map00670 Or
47.567	80.305	44.566	88.52	138.289	40.954	45.166	993	F - Nucleotid map00230 Pu
144.817	220.016	134.225	353.338	201.184	103.066	117.4	993	F - Nucleotid map00250 Al
87.76	106.551	73.938	200.642	63.097	62.069	60.342	993	F - Nucleotid map01110 Bi
115.312	182.52	53.457	144.81	341.843	71.909	68.929	993	F - Nucleotid map01110 Bi
28.79	39.906	23.244	51.191	57.21	13.263	17.186	993	F - Nucleotid map00030 Pe
71.21	89.218	84.246	90.933	159.367	67.456	67.395	993	F - Nucleotid map01110 Bi
108.551	118.674	131.153	154.503	164.891	71.524	80.392	993	F - Nucleotid map00240 Py
551.597	574.583	337.569	658.331	1036.832	291.16	295.948	993	F - Nucleotid map01110 Bi

123.576	125.253	38.895	89.713	214.245	44.709	48.014	993	F - Nucleotid map00230 Pu
21.711	47.255	13.387	78.537	82.303	11.313	13.479	993	F - Nucleotid map00240 Py
50.133	42.047	24.446	53.341	96.433	22.975	29.421	993	F - Nucleotid map00250 Al
91.186	111.201	64.202	101.314	133.9	58.367	54.38	993	F - Nucleotid map00240 Py
33.888	55.348	19.745	45.819	54.337	17.843	16.756	993	F - Nucleotid map01110 Bi
65.81	152.932	93.918	118.218	114.961	50.008	25.887	993	F - Nucleotid map00240 Py
9.535	19.54	7.885	31.355	25.85	6.333	7.339	993	F - Nucleotide transport an
24.068	45.71	12.648	34.111	71.537	17.588	20.601	993	F - Nucleotide transport an
1450.265	1984.764	738.257	1669.427	1782.846	909.969	778	993	F - Nucleotid map00710 Ca
81.292	154.405	58.342	188.056	158.293	54.767	62.757	993	F - Nucleotid map01110 Bi
19.961	28.238	19.07	51.603	57.885	17.156	17.551	993	F - Nucleotid map00730 Th
17.276	21.868	19.532	28.426	50.619	17.556	19.732	993	F - Nucleotid map00240 Py
201.104	287.27	69.428	261.929	515.197	105.825	110.799	993	F - Nucleotid map00240 Py
117.788	199.615	154.783	237.749	181.882	75.053	101.489	993	F - Nucleotid map00270 Cy
250.58	331.778	78.7	401.369	615.688	65.125	68.707	993	F - Nucleotid map01110 Bi
44.957	97.371	32.627	110.274	103.337	28.647	26.088	993	F - Nucleotid map00240 Py
62.384	87.787	82.685	82.278	108.07	72.951	70.096	993	F - Nucleotid map00240 Py
106.819	189.39	355.995	166.828	146.805	288.79	224.065	993	F - Nucleotid map01110 Bi
135.981	221.18	139.519	263.002	354.9	106.365	120.819	993	F - Nucleotid map00230 Pu
24.767	27.676	18.743	37.003	63.945	24.698	24.018	993	F - Nucleotid map00630 Gl
50.1	55.433	51.579	82.93	105.627	31.92	34.045	993	F - Nucleotid map01110 Bi
10.539	11.069	14.321	18.306	34.996	12.138	12.906	993	F - Nucleotid map00230 Pu
85.519	81.313	64.796	77.972	135.291	62.349	73.473	993	F - Nucleotid map00240 Py
20.139	20.438	20.462	25.394	40.499	13.025	12.049	993	F - Nucleotide transport an
56.905	64.49	34.604	54.607	60.969	21.364	27.211	993	F - Nucleotid map01110 Bi
70.173	75.149	46.168	104.696	202.385	50.878	47.974	993	F - Nucleotid map01110 Bi
109.605	144.326	70.174	182.555	293.341	67.445	78.791	993	F - Nucleotid map01110 Bi
28.131	32.583	31.666	39.078	47.684	25.919	23.665	993	F - Nucleotid map00760 Ni
28.878	22.324	13.727	27.847	23.864	32.054	13.079	993	F - Nucleotid map00240 Py

10.162	10.02	7.889	15.292	15.985	8.745	9.519	993	F - Nucleotid map00230 Pu
37.504	34.914	27.769	40.3	53.169	21.117	20.445	993	F - Nucleotide transport an
97.973	64.238	45.019	50.106	101.107	41.885	45.408	993	F - Nucleotid map01110 Bi
37.564	42.621	25.727	43.457	48.675	26.694	24.966	993	F - Nucleotid map00240 Py
50.105	49.735	30.195	82.427	138.332	26.764	30.843	993	F - Nucleotid map01110 Bi
94.24	137.369	159.086	172.47	270.027	135.698	108.777	993	F - Nucleotid map00230 Pu
63.128	75.11	47.945	69.371	91.501	40.58	42.204	993	F - Nucleotid map01110 Bi
29.674	29.551	25.054	72.802	59.354	20.025	21.026	993	F - Nucleotid map00240 Py
29.674	30.193	24.629	73.62	60.24	20.025	21.579	993	F - Nucleotid map00240 Py
222.527	210.683	130.112	214.799	390.828	147.317	146.131	993	F - Nucleotide transport an
25.543	45.632	26.297	68.852	52.545	19.734	17.657	993	F - Nucleotid map01110 Bi
9.056	6.653	41.318	19.396	9.416	14.563	17.418	993	F - Nucleotid map00760 Ni
11.795	13.71	16.455	41.519	60.947	10.706	14.45	993	F - Nucleotide transport an
64.775	102.837	32.464	94.515	56.028	80.024	81.525	993	F - Nucleotide transport an
409.384	407.219	207.879	213.725	626.72	596.498	408.108	993	F - Nucleotide transport an
66.9	64.921	34.586	55.748	104.777	36.411	34.759	993	F - Nucleotid map00230 Pu
69.559	76.293	24.539	91.832	101.75	35.903	23.619	993	F - Nucleotid map00330 Ar
166.254	168.606	93.876	172.807	222.082	122.287	98.483	993	G - Carbohyc map00500 St
112.537	152.055	24.116	122.068	144.012	28.675	39.334	993	G - Carbohyc map01062 Bi
101.451	70.407	37.691	120.818	145.721	32.389	20.54	993	G - Carbohydrate transport
95.58	75.824	40.769	112.298	246.843	41.732	44.003	993	G - Carbohyc map00500 St
619.994	304.026	137.324	371.781	488.258	248.726	128.512	993	G - Carbohyc map01110 Bi
39.799	98.832	38.317	60.777	96.152	92.121	43.767	993	G - Carbohyc map01062 Bi
33.83	19.891	40.017	22.919	30.312	26.051	25.606	993	G - Carbohydrate transport
1327.815	938.366	365.762	1232.679	1292.365	454.785	509.033	993	G - Carbohyc map00710 Ca
42.232	54.934	42.229	69.361	74.809	40.824	42.266	993	G - Carbohydrate transport
72.667	74.462	53.399	85.182	133.845	57.377	62.506	993	G - Carbohyc map02010 AB
62.563	79.678	49.036	65.598	119.665	54.351	47.921	993	G - Carbohyc map00051 Fr
36.075	87.134	25.07	132.5	140.019	36.117	29.875	993	G - Carbohyc map00630 Gl

247.414	211.446	141.892	198.477	392.431	125.003	103.226	993	G - Carbohyc map01110 Bi
50.934	40.563	46.122	57.38	75.792	32.739	35.594	993	G - Carbohyc map01062 Bi
34.09	45.702	22.513	53.168	73.561	22.903	23.412	993	G - Carbohydrate transport
92.45	153.34	85.688	140.168	236.792	182.732	115.897	993	G - Carbohydrate transport
100.742	50.95	38.714	42.672	61.279	60.644	46.87	993	G - Carbohyc map04910 In
32.254	21.937	30.087	30.456	51.574	20.594	28.592	993	G - Carbohyc map00051 Fr
42.737	88.49	49.453	83.74	95.751	31.194	44.107	993	G - Carbohyc map00710 Ca
237.298	144.199	45.751	196.256	427.913	65.565	52.966	993	G - Carbohyc map04910 In
258.888	149.327	27.684	220.438	682.865	65.892	43.547	993	G - Carbohyc map01062 Bi
45.926	86.559	37.329	67.223	77.654	53.021	42.093	993	G - Carbohydrate transport
135.208	280.462	59.903	201.433	171.147	124.738	97.741	993	G - Carbohydrate transport
124.56	269.123	47.446	186.543	137.675	131.774	81.718	993	G - Carbohydrate transport
231.088	584.574	120.72	269.202	421.058	245.188	184.244	993	G - Carbohydrate transport
129.481	330.229	64.903	165.374	347.499	121.042	96.084	993	G - Carbohydrate transport
15.662	25.593	10.024	60.767	52.355	8.964	11.053	993	G - Carbohydrate transport
39.168	58.547	44.99	71.62	77.174	21.954	27.361	993	G - Carbohydrate transport
159.398	174.513	126.5	193.789	382.783	120.27	126.775	993	G - Carbohyc map00520 Ar
261.974	148.699	136.341	150.727	328.453	145.514	111.731	993	G - Carbohydrate transport
44.684	18.947	17.047	35.574	29.434	16.668	17.981	993	G - Carbohydrate transport
129.083	98.174	164.115	189.413	293.591	69.433	80.674	993	G - Carbohydrate transport
7.479	12.994	7.048	44.548	40.433	6.391	3.587	993	G - Carbohydrate transport
516.29	1402.784	314.166	663.76	1305.855	716.147	417.892	993	G - Carbohydrate transport
33.227	50.963	18.949	54.229	82.698	22.616	21.853	993	G - Carbohyc map02010 AE
1343.558	1874.491	438.85	1650.656	2426.097	685.261	749.769	993	G - Carbohyc map00710 Ca
45.74	56.437	49.826	90.722	135.931	27.459	35.334	993	G - Carbohyc map00760 Ni
59.573	55.225	31.496	47.704	66.125	31.724	35.714	993	G - Carbohyc map00051 Fr
1152.708	705.206	232.523	711.009	1347.229	227.318	306.811	993	G - Carbohyc map00710 Ca
209.882	187.988	85.653	155.593	252.833	75.16	79.079	993	G - Carbohyc map01062 Bi
45.595	99.541	30.722	62.793	148.539	85.885	37.037	993	G - Carbohydrate transport

43.645	89.522	20.779	73.312	114.028	31.611	29.234	993	G - Carbohyc map00520 Ar
63.339	59.943	66.198	115.874	131.546	43.305	41.794	993	G - Carbohyc map00521 St
195.122	173.182	92.978	135.713	621.186	125.913	92.081	993	G - Carbohydrate transport
8.802	12.928	11.626	21.822	20.73	5.136	11.653	993	G - Carbohyc map00710 Ca
551.141	34.051	63.216	71.178	137.914	34.793	53.376	993	G - Carbohydrate transport
162.799	151.593	74.811	79.705	194.184	133.908	106.679	993	G - Carbohyc map00710 Ca
96.49	75.524	101.174	111.334	248.045	94.596	88.735	993	G - Carbohyc map00710 Ca
18.97	25.237	14.619	29.164	38.99	14.996	16.124	993	G - Carbohyc map01110 Bi
86.951	75.021	67.961	62.341	96.132	54.535	60.043	993	G - Carbohydrate transport
1526.952	1258.613	511.63	1316.976	1560.291	388.039	594.879	993	G - Carbohyc map00710 Ca
40.153	43.091	47.741	103.577	93.896	34.198	38.707	993	G - Carbohyc map00760 Ni
39.581	53.909	30.209	68.746	100.06	24.007	27.067	993	G - Carbohydrate transport
358.866	435.749	259.024	383.185	597.129	278.835	303.242	993	G - Carbohyc map01062 Bi
106.648	150.941	52.913	153.486	212.185	71.165	84.795	993	G - Carbohyc map00500 St
9.97	14.069	9.14	33.822	24.006	7.698	7.558	993	G - Carbohyc map00511 Ot
24.591	13.7	12.614	23.091	56.34	16.058	14.118	993	G - Carbohydrate transport
130.392	248.696	120.998	233.341	260.543	131.077	111.027	993	G - Carbohyc map00500 St
1003.842	538.292	158.256	739.595	858.99	265.255	153.185	993	G - Carbohyc map01110 Bi
56.484	123.946	102.193	62.791	71.327	162.523	151.034	993	G - Carbohyc map04113 M
100.171	140.862	32.427	174.999	177.528	48.021	53.806	993	G - Carbohyc map00710 Ca
3498.652	3311.991	2366.17	2567.067	3578.176	1705.671	2414.679	993	G - Carbohyc map00710 Ca
3307.616	4822.902	3489.563	7880.044	3974.393	1600.202	1290.746	993	G - Carbohyc map00630 Gl
123.845	118.367	79.844	73.598	127.274	85.063	78.401	993	G - Carbohyc map00051 Fr
93.949	43.835	51.453	96.934	154.814	22.222	25.948	993	G - Carbohydrate transport
98.733	106.343	94.911	90.882	143.564	78.532	76.008	993	G - Carbohyc map01062 Bi
213.915	267.883	55.399	224.634	208.534	62.827	46.603	993	G - Carbohyc map00710 Ca
217.63	417.012	205.831	265.451	555.909	257.481	235.465	993	G - Carbohyc map00540 Li
40.633	37.624	36.31	44.155	60.185	28.493	38.887	993	G - Carbohyc map01062 Bi
37.366	30.12	427.545	54.952	61.422	23.187	27.625	993	G - Carbohydrate transport

117.389	60.021	26.769	44.518	125.512	33.842	29.159	993	G - Carbohyc	map00710 Ca
15.295	12.222	9.267	33.095	36.089	10.861	11.89	993	G - Carbohyc	map00030 Pe
17.911	19.189	24.396	20.13	16.088	50.031	24.087	993	G - Carbohyc	map00720 Ca
7.788	8.412	6.095	18.332	11.897	5.915	7.106	993	G - Carbohyc	map02020 Tv
25.856	16.551	34.475	33.843	28.162	20.883	32.334	993	G - Carbohyc	map02020 Tv
27.991	22.034	23.303	30.862	23.988	31.838	19.178	993	G - Carbohyc	map01062 Bi
52.45	10.298	9.861	16.436	15.173	5.835	8.293	993	G - Carbohyc	map02010 AE
68.365	16.477	14.862	20.406	18.324	13	16.481	993	G - Carbohyc	map02010 AE
47.214	17.819	13.72	25.859	16.885	9.22	9.903	993	G - Carbohyc	map02010 AE
194.633	224.572	72.986	140	254.386	86.702	100.514	993	G - Carbohydrate transport	
107.102	96.695	54.147	139.487	132.222	39.634	58.366	993	G - Carbohydrate transport	
10.228	14.952	16.765	23.821	14.549	9.361	9.659	993	G - Carbohyc	map00040 Pe
1356.881	1956.02	531.052	1614.203	2134.63	733.074	785.947	993	G - Carbohyc	map00710 Ca
52.951	47.541	47.548	62.082	129.266	42.841	46.467	993	G - Carbohyc	map00521 St
69.968	61.842	63.911	65.11	114.124	47.017	60.541	993	G - Carbohydrate transport	
75.864	47.857	40.507	48.937	165.793	43.032	43.281	993	G - Carbohyc	map01110 Bi
84.349	28.048	16.216	62.396	50.18	13.088	15.741	993	G - Carbohyc	map02010 AE
315.561	366.801	111.916	299.158	669.532	138.269	113.146	993	G - Carbohyc	map01062 Bi
201.54	171.514	53.31	108.998	118.368	74.354	77.588	993	G - Carbohyc	map00521 St
16.772	16.813	3.828	15.699	4.294	6.719	5.953	993	G - Carbohydrate transport	
244.993	155.849	80.388	199.394	269.794	124.67	100.255	993	G - Carbohydrate transport	
361.703	443.765	84.178	312.035	480.797	141.97	154.87	993	G - Carbohyc	map00520 Ar
24.496	38.886	54.877	50.105	46.531	30.587	32.696	993	G - Carbohyc	map00620 Py
49.146	49.091	53.465	60.926	109.472	40.463	40.961	993	G - Carbohyc	map01110 Bi
20.988	36.298	16.106	38.132	35.79	13.3	13.483	993	G - Carbohyc	map01062 Bi
187.275	229.179	126.725	236.486	233.949	91.578	89.443	939	G - Carbohyc	map00051 Fr
74.663	110.785	155.341	99.438	184.484	64.059	145.908	993	G - Carbohyc	map02010 AE
44.413	93.714	79.499	83.628	103.519	35.954	71.468	993	G - Carbohyc	map02010 AE
75.474	151.297	164.567	157.482	193.518	70.728	176.724	993	G - Carbohyc	map00520 Ar

60.703	108.945	94.197	145.095	102.515	57.75	115.46	993	G - Carbohydrate transport
716.119	798.223	328.327	737.215	866.988	419.508	467.774	993	G - Carbohyc map00520 Ar
25.079	40.321	35.518	58.421	49.637	20.151	15.539	993	G - Carbohyc map01110 Bi
105.668	121.635	44.647	111.88	189.969	60.819	53.862	993	G - Carbohydrate transport
17.352	18.468	16.071	45.687	31.834	12.543	12.438	993	G - Carbohydrate transport
19.599	20.003	17.533	30.871	20.854	19.641	13.129	993	G - Carbohydrate transport
81.464	101.065	44.537	70.935	69.218	48.783	43.525	993	G - Carbohydrate transport
111.598	162.756	91.857	147.917	261.247	81.918	95.846	993	G - Carbohyc map00521 St
7.531	11.575	10.931	21.056	26.604	8.921	4.985	993	G - Carbohydrate transport
62.802	95.757	62.816	183.767	145.104	26.682	38.103	993	G - Carbohydrate transport
41.571	43.043	25.006	46.213	55.424	24.44	20.609	993	G - Carbohydrate transport
50.062	91.4	60.638	93.777	114.031	42.168	42.041	993	G - Carbohyc map00051 Fr
38.557	27.312	30.564	38.618	32.179	14.246	18.5	993	G - Carbohydrate transport
13.112	9.198	11.785	17.865	8.409	8.364	8.012	993	G - Carbohydrate transport
121.942	262.748	33.85	205.245	242.079	64.815	46.933	993	G - Carbohydrate transport
33.604	61.28	17.823	92.523	101.89	21.516	20.057	993	G - Carbohydrate transport
33.426	53.183	24.196	74.722	103.822	26.37	26.155	993	G - Carbohydrate transport
52.653	91.329	39.226	56.851	110.148	94.452	47.412	993	G - Carbohyc map00630 Gl
56.103	53.066	41.261	43.586	82.717	46.594	38.236	993	G - Carbohydrate transport
6.903	7.074	10.839	12.107	18.116	4.791	3.798	972	H - Coenzym map01110 Bi
1.856	4.588	1.553	9.725	1.234	1.71	0.578	798	H - Coenzyme transport an
49.538	53.877	67.376	64.784	69.046	72.2	60.217	993	H - Coenzyme transport an
21.728	35.741	26.84	39.729	58.822	26.553	26.798	993	H - Coenzyme transport an
139.292	163.461	87.466	125.804	204.01	76.228	89.475	993	H - Coenzym map01062 Bi
8.988	19.431	20.603	54.813	46.002	8.08	10.448	993	H - Coenzym map00860 Pc
11.087	15.45	5.97	44.591	49.506	6.946	5.137	993	H - Coenzym map00860 Pc
61.207	35.839	74.534	52.645	80.626	47.11	58.86	993	H - Coenzym map00790 Fc
15.015	18.549	12.261	38.175	51.555	13.188	12.261	993	H - Coenzym map01110 Bi
51.487	36.931	29.207	41.19	52.08	17.592	23.914	993	H - Coenzym map01110 Bi

94.469	168.667	70.724	144.817	201.347	56.783	67.557	993	H - Coenzym map00750 Vi
28.57	22.344	16.01	39.017	56.902	23.024	27.498	993	H - Coenzym map00730 Th
155.165	181.944	116.119	105.02	225.827	183.648	112.29	993	H - Coenzym map00780 Bi
90.788	87.053	85.204	89.677	93.255	61.926	78.198	993	H - Coenzym map01110 Bi
233.314	277.135	47.428	181.39	89.916	111.529	81.873	993	H - Coenzym map01110 Bi
41.141	36.583	38.155	46.489	70.481	27.457	24.36	993	H - Coenzym map01110 Bi
33.534	33.604	24.437	54.633	79.608	23.056	19.044	993	H - Coenzym map00860 Pc
243.075	668.037	138.637	659.404	804.6	146.417	132.718	993	H - Coenzym map00270 Cy
132.264	240.617	149.365	323.748	234.526	93.571	199.322	993	H - Coenzyme transport an
35.418	86.085	47.286	134.414	74.157	35.619	86.346	993	H - Coenzyme transport an
43.233	55.03	30.542	70.651	65.864	26.064	25.935	993	H - Coenzym map00730 Th
34.957	74.104	66.861	69.594	87.046	39.13	51.583	993	H - Coenzym map00785 Lip
11.607	14.605	10.815	25.542	29.403	13.133	10.748	993	H - Coenzym map00860 Pc
20.333	15.365	12.682	31.729	39.271	18.735	13.096	993	H - Coenzyme transport an
204.748	199.504	164.557	215.219	166.402	154.716	123.306	993	H - Coenzym map01110 Bi
125.717	55.277	121.017	112.048	167.007	100.258	94.409	993	H - Coenzym map00670 Or
126.98	150.487	90.186	149.195	129.902	65.115	67.136	993	H - Coenzym map01110 Bi
32.399	30.655	23.459	34.135	45.607	20.244	21.857	993	H - Coenzyme transport an
3.868	4.757	5.074	18.927	11.33	3.046	3.445	993	H - Coenzym map01110 Bi
14.162	22.213	22.465	34.224	27.16	10.519	13.775	993	H - Coenzym map00760 Ni
15.926	18.064	24.729	29.014	39.347	20.488	16.973	993	H - Coenzym map00790 Fc
2.95	3.595	1.782	15.266	6.572	1.445	2.217	993	H - Coenzym map00860 Pc
9.072	17.125	16.576	31.774	23.053	11.439	10.957	993	H - Coenzym map00860 Pc
65.146	58.882	22.027	56.954	139.645	38.206	36.505	993	H - Coenzym map01110 Bi
473.205	567.875	90.326	413.98	546.781	246.065	240.987	993	H - Coenzym map00740 Ri
180.285	212.043	88.294	177.993	234.063	81.913	95.98	993	H - Coenzym map00780 Bi
64.847	50.913	34.431	77.921	207.03	27.468	23.613	993	H - Coenzym map00860 Pc
25.416	36.521	36.697	35.438	27.409	24.035	22.517	993	H - Coenzym map00785 Lip
8.128	9.799	5.708	16.611	18.412	5.066	5.539	993	H - Coenzym map00860 Pc

22.422	21.305	17.708	53.161	57.896	9.109	14.303	993	H - Coenzym map00740 Ri
58.847	50.585	27.678	79.385	131.432	43.959	38.256	993	H - Coenzyme transport an
134.558	184.894	105.638	164.532	240.393	105.304	115.726	993	H - Coenzym map01110 Bi
175.973	244.34	64.94	98.754	156.841	115.188	95.807	993	H - Coenzym map01110 Bi
48.544	71.948	43.901	80.314	102.661	47.823	31.567	993	H - Coenzyme transport an
74.639	93.244	56.924	88.772	120.747	66.693	37.833	993	H - Coenzym map01110 Bi
119.782	105.864	85.191	80.588	195.92	78.084	80.479	993	H - Coenzyme transport an
23.495	49.885	26.004	172.21	127.826	17.343	18.197	993	H - Coenzym map00790 Fc
41.293	62.156	48.754	78.449	118.711	38.965	53.913	993	H - Coenzym map00860 Pc
142.137	121.053	59.538	107.636	268.886	51.934	54.009	993	H - Coenzym map00770 Pa
167.21	240.824	130.315	154.31	292.252	190.301	153.447	993	H - Coenzym map01110 Bi
175.877	278.137	124.529	175.233	158.052	157.645	180.67	993	H - Coenzym map01110 Bi
1122.885	710.791	472.686	1466.453	1774.898	314.569	441.696	993	H - Coenzym map00270 Cy
8.948	7.707	6.324	12.563	20.34	5.138	6.18	993	H - Coenzym map00785 Li
207.027	172.094	159.368	147.296	283.217	109.732	115.366	993	H - Coenzyme transport an
35.409	31.742	57.912	49.86	60.353	30.319	37.213	993	H - Coenzym map00740 Ri
37.055	23.812	25.843	38.259	40.602	25.606	25.36	993	H - Coenzym map00860 Pc
5.225	10.516	3.539	12.904	7.735	4.986	3.459	993	H - Coenzym map01110 Bi
20.45	19.087	22.763	27.661	52.458	19.203	19.314	993	H - Coenzym map00860 Pc
79.345	104.885	46.505	139.052	282.168	53.412	59.598	993	H - Coenzym map00750 Vi
33.267	36.1	38.187	46.384	57.27	27.216	28.712	993	H - Coenzym map01064 Bi
11.459	16.384	10.83	31.946	30.879	6.63	9.526	993	H - Coenzym map00860 Pc
79.447	128.915	110.037	186.366	254.158	101.383	89.135	993	H - Coenzym map00790 Fc
42.783	86.372	21.2	109.516	87.183	33.61	34.978	993	H - Coenzyme transport an
90.329	91.067	106.578	102.296	119.406	87.423	84.505	993	H - Coenzyme transport an
17.793	21.637	23.741	29.055	35.593	22.715	23.556	993	H - Coenzyme transport an
10.586	13.103	8.518	28.26	22.497	7.023	8.072	993	H - Coenzym map00860 Pc
18.218	28.72	16.957	65.703	99.194	19.955	15.686	993	H - Coenzym map00785 Li
21.37	25.175	18.202	30.68	53.522	15.799	19.143	993	H - Coenzym map00740 Ri

49.256	44.067	48.896	49.151	77.218	41.164	42.736	993	H - Coenzym map01110 Bi
67.35	104.732	53.623	81.23	113.537	52.62	41.975	993	H - Coenzym map00720 Ca
143.544	244.548	87.248	276.942	337.632	55.541	77.751	993	H - Coenzym map01110 Bi
15.461	10.882	12.376	19.256	20.082	6.763	9.51	993	H - Coenzym map00860 Pc
152.498	176.108	90.587	169.369	273.069	112.259	103.082	993	H - Coenzym map04122 Su
224.602	267.15	132.125	304.372	480.805	114.631	140.096	993	H - Coenzym map01110 Bi
10.784	20.892	14.556	23.495	24.472	10.009	14.173	993	H - Coenzym map00740 Ri
28.244	33.529	21.814	42.695	52.078	14.175	13.832	993	H - Coenzyme transport an
3.646	3.254	3.943	11.048	13.46	4.226	5.449	993	H - Coenzym map00770 Pa
13.578	17.448	10.29	25.594	28.308	12.715	11.492	993	H - Coenzym map00860 Pc
26.854	37.705	27.631	38.107	51.996	32.332	27.228	993	H - Coenzym map01110 Bi
8.362	13.417	8.72	44.253	24.099	6.488	10.342	993	H - Coenzym map01110 Bi
109.39	243.311	78.616	484.687	352.471	74.939	76.093	993	H - Coenzym map00790 Fc
42.122	59.834	10.492	123.299	48.814	19.85	23.998	993	H - Coenzyme transport an
15.675	24.138	4.949	61.618	23.902	6.936	9.848	993	H - Coenzym map00790 Fo
14.023	20.356	4.919	39.616	17.574	5.23	7.514	993	H - Coenzym map00790 Fo
8.856	11.978	2.879	33.972	9.511	6.528	7.972	993	H - Coenzym map00790 Fo
14.524	25.484	6.873	54.71	25.583	9.166	12.379	993	H - Coenzym map00790 Fc
3745.892	1518.274	1773.651	1560.162	1352.922	2627.128	3840.185	993	H - Coenzym map00780 Bi
55.11	90.925	73.579	97.153	138.038	86.524	64.268	993	H - Coenzym map01110 Bi
51.958	70.01	75.236	100.624	155.897	51.894	57.412	993	H - Coenzym map00624 Pc
296.835	280.234	341.144	338.763	552.004	220.111	269.386	993	H - Coenzym map01110 Bi
39.577	24.556	18.814	48.501	83.631	22.582	32.206	993	H - Coenzym map00770 Pa
42.9	51.745	100.57	58.163	66.305	49.822	82.531	993	H - Coenzym map00790 Fc
90.43	89.294	103.758	95.11	150.373	50.666	52.362	993	H - Coenzym map01110 Bi
51.607	52.291	31.856	75.12	80.36	24.307	30.249	993	H - Coenzyme transport an
90.803	56.403	112.842	109.283	195.227	53.528	90.16	993	H - Coenzym map00780 Bi
19.695	23	39.518	37.147	50.53	31.985	23.015	993	H - Coenzym map00860 Pc
5.25	7.686	6.166	16.748	10.31	4.838	5.055	993	H - Coenzym map00860 Pc

491.592	556.601	178.936	560.664	620.418	375.857	240.931	993	H - Coenzym map00730 Th
21.853	26.539	12.244	37.138	25.542	12.18	9.167	993	H - Coenzyme transport an
3.325	3.536	19.824	17.375	3.546	6.821	8.057	993	H - Coenzym map00760 Ni
16.93	20.24	11.13	23.39	23.924	13.458	13.075	993	H - Coenzym map00750 Vi
113.045	127.692	60.814	129.946	224.775	57.003	65.924	993	H - Coenzym map01110 Bi
48.523	64.205	39.689	87.455	122.98	28.815	36.54	993	H - Coenzym map01110 Bi
162.532	253.806	80.298	200.437	167.341	74.954	86.771	993	H - Coenzym map01110 Bi
253.196	176.15	205.581	158.33	347.98	112.353	159.465	993	H - Coenzym map01110 Bi
53.349	98.725	32.873	182.233	131.266	35.773	33.696	993	H - Coenzym map00770 Pa
60.591	89.062	69.862	91.051	74.396	40.773	44.764	993	H - Coenzyme transport an
29.362	40.779	30.578	57.723	55.271	22.609	25.683	993	H - Coenzym map00760 Ni
11.564	14.556	46.258	15.059	11.066	12.165	11.814	993	H - Coenzym map00760 Ni
98.654	116.064	74.321	77.044	116.63	53.446	58.387	993	H - Coenzyme transport an
14.524	9.485	10.054	24.365	18.493	10.294	8.24	993	H - Coenzyme transport an
35.509	40.548	194.895	47.095	21.132	27.671	40.248	993	H - Coenzyme transport an
306.559	329.455	309.721	280.575	355.262	261.458	253.23	993	H - Coenzym map01062 Bi
88.408	131.021	89.549	231.832	293.075	76.706	78.947	993	H - Coenzym map00480 Gl
35.78	28.642	53.298	37.696	35.403	36.575	32.858	993	H - Coenzym map00860 Pc
19.545	27.552	9.106	25.361	24.872	12.238	11.151	807	H - Coenzym map02010 AE
160.979	255.083	305.864	281.001	234.265	179.515	210.967	993	H - Coenzym map04122 Su
27.702	33.086	44.797	66.965	78.981	33.582	36.998	993	H - Coenzym map01110 Bi
53.955	44.836	57.373	49.835	95.983	48.829	53.916	993	H - Coenzym map00680 M
18.501	24.362	10.715	25.076	26.797	10.484	12.737	993	H - Coenzym map00680 M
189.527	258.658	66.464	284.608	494.925	95.664	105.196	993	H - Coenzym map00680 M
14.446	29.126	24.867	37.426	30.252	11.347	17.405	993	H - Coenzym map00910 Ni
53.59	40.691	44.269	67.646	97.809	32.184	36.63	993	I - Lipid trans map01062 Bi
13.124	20.799	19.112	26.542	26.086	15.962	18.185	993	I - Lipid transport and meta
4.704	13.497	8.125	22.787	19.443	9.86	5.761	993	I - Lipid transport and meta
52.51	68.668	36.499	69.861	79.324	38.821	41.876	993	I - Lipid trans map00071 Fa

87.87	112.338	34.378	114.517	146.677	43.551	40.799	993	I - Lipid trans map00061 Fa
63.88	60.147	72.863	58.974	88.053	66.743	51.859	993	I - Lipid transport and meta
41.99	63.174	13.853	84.02	112.667	15.385	23.283	993	I - Lipid trans map00061 Fa
70.894	52.618	49.291	53.551	79.709	48.867	47.08	993	I - Lipid trans map00650 Bu
43.571	58.795	28.784	70.362	72.717	32.05	32.521	993	I - Lipid trans map01062 Bi
137.626	189.905	91.178	211.058	232.113	88.928	83.791	993	I - Lipid trans map01062 Bi
33.987	80.993	129.594	81.023	91.446	120.619	82.143	993	I - Lipid trans map00564 Gl
122.588	158.549	55.738	145.083	304.999	49.619	59.682	993	I - Lipid trans map01062 Bi
32.595	25.334	23.768	35.912	69.245	21.554	21.723	993	I - Lipid transport and meta
144.806	140.37	75.266	201.754	324.238	62.95	67.581	993	I - Lipid trans map01062 Bi
137.159	68.604	38.798	54.494	165.986	42.887	33.015	993	I - Lipid trans map00310 Ly
12.247	33.626	11.566	211.425	150.982	10.272	7.795	993	I - Lipid transport and meta
149.062	193.025	53.017	153.873	246.521	77.407	77.832	993	I - Lipid trans map00061 Fa
165.856	108.862	137.999	137.785	166.781	85.041	89.076	993	I - Lipid trans map01110 Bi
38.992	33.902	35.515	71.401	72.77	16.058	20.988	993	I - Lipid transport and meta
81.815	108.228	67.989	101.974	171.24	50.46	56.416	993	I - Lipid trans map00564 Gl
53.253	87.951	38.94	89.521	139.813	28.808	36.853	993	I - Lipid trans map00061 Fa
157.614	173.515	43.179	345.306	446.491	33.987	35.287	993	I - Lipid trans map02020 Tv
8.714	29.93	9.51	77.933	48.457	8.029	4.38	993	I - Lipid trans map01040 Bi
12.575	17.008	8.56	24.611	22.922	7.994	7.491	993	I - Lipid trans map01062 Bi
38.891	18.686	20.987	35.058	59.745	14.274	19.869	993	I - Lipid trans map00564 Gl
63.742	164.616	43.449	379.087	291.084	51.074	44.865	993	I - Lipid trans map00591 Li
45.756	47.808	26.64	48.173	90.628	23.329	25.523	993	I - Lipid trans map00564 Gl
116.1	125.249	96.841	124.047	164.811	93.96	94.081	993	I - Lipid trans map00720 Ca
80.891	106.626	36.835	105.93	158.988	41.128	39.818	993	I - Lipid trans map01062 Bi
1.377	1.026	3.18	8.944	5.308	1.615	2.984	993	I - Lipid transport and meta
18.566	29.356	24.543	36.338	35.263	19.682	18.633	993	I - Lipid trans map00280 Va
211.014	258.665	100.343	269.401	341.078	106.537	119.832	993	I - Lipid trans map00720 Ca
44.444	48.393	28.264	58.181	73.59	28.135	29.891	993	I - Lipid trans map00720 Ca

82.744	126.113	54.332	91.362	94.895	82.706	69.678	993	I - Lipid trans map00720 Ca
924.866	608.358	390.047	1031.876	713.221	524.788	484.972	993	I - Lipid trans map03320 PF
55.318	55.59	58.88	69.044	95.17	53.2	43.828	993	I - Lipid transport and meta
154.326	265.527	80.682	189.368	342.837	148.741	111.908	993	I - Lipid trans map01062 Bi
37.761	48.338	47.22	49.119	87.346	41.43	45.377	993	I - Lipid trans map01062 Bi
80.479	64.9	44.494	75.541	96.025	32.575	38.808	993	I - Lipid trans map00720 Ca
64.922	57.876	63.692	87.099	206.107	55.815	68.365	993	I - Lipid transport and meta
22.419	23.972	28.588	30.143	28.374	23.471	21.163	993	I - Lipid trans map00983 Dr
27.474	27.132	28.341	28.631	39.786	31.933	29.64	993	I - Lipid transport and meta
85.143	111.38	67.944	98.966	114.969	41.823	59.904	993	I - Lipid trans map01062 Bi
283.924	407.213	125.057	523.999	350.022	129.775	150.133	993	I - Lipid trans map00061 Fa
390.647	746.409	154.373	668.366	614.11	189.748	236.649	993	I - Lipid transport and meta
16.496	19.696	7.579	36.918	32.533	7.269	6.077	993	I - Lipid trans map00061 Fa
8.341	10.4	10.371	13.128	18.545	7.416	7.49	993	I - Lipid trans map01110 Bi
152.67	69.263	119.029	77.733	157.959	75.471	117.371	993	I - Lipid transport and meta
108.458	161.666	60.691	134.105	130.586	62.269	61.56	993	I - Lipid trans map00061 Fa
75.709	79.612	33.424	125.347	275.288	37.082	44.942	993	I - Lipid trans map00030 Pe
5.764	10.771	7.12	27.098	52.226	8.435	7.631	993	I - Lipid transport and meta
201.281	104.979	55.229	98.959	280.509	78.737	58.401	993	I - Lipid trans map00061 Fa
59.256	75.602	64.219	109.495	140.541	48.175	64.605	993	I - Lipid transport and meta
116.401	222.837	139.233	265.098	278.333	78.403	91.039	993	I - Lipid transport and meta
20.003	38.814	33.188	50.916	63.148	44.018	48.034	993	I - Lipid trans map00061 Fa
29.356	31.665	19.241	34.776	47.284	20.5	20.163	993	I - Lipid transport and meta
8.277	8.001	6.981	28.731	28.909	6.619	5.582	558	J - Translation, ribosomal s
89.724	151.999	123.822	168.153	132.867	209.63	136.958	993	J - Translatio map03018 RN
289.381	338.424	197.188	581.558	421.819	176.44	164.412	993	J - Translatio map03018 RN
9.682	10.548	7.456	18.152	15.266	4.883	7.421	993	J - Translation, ribosomal s
253.54	264.645	269.56	417.76	360.606	210.718	229.005	993	J - Translation, ribosomal s
14.042	12.555	7.973	18.322	30.347	5.581	6.014	993	J - Translation, ribosomal s

102.416	291.104	23.534	93.241	113.053	443.679	350.574	993	J - Translation, ribosomal s
662.202	931.75	835.691	684.013	889.501	876.768	753.044	993	J - Translatio map03010 Ril
287.244	426.628	181.666	550.193	467.467	171.288	219.196	993	J - Translatio map03010 Ril
23.151	23.368	22.817	33.177	42.394	16.618	16.645	993	J - Translation, ribosomal s
180.974	179.592	122.361	267.648	466.494	107.356	120.983	993	J - Translation, ribosomal s
58.094	62.393	57.11	75.229	131.586	56.162	49.811	993	J - Translation, ribosomal s
3.382	5.301	7.277	17.425	10.121	3.575	5.4	993	J - Translation, ribosomal s
98.66	148.311	80.396	139.187	161.353	71.985	100.117	993	J - Translatio map03010 Ril
36.63	59.661	29.447	56.097	43.952	27.415	29.522	993	J - Translation, ribosomal s
49.99	68.79	36.29	81.416	47.938	18.371	26.776	993	J - Translatio map00970 Ar
20.958	23.36	16.064	34.183	12.47	9.825	12.169	993	J - Translatio map00970 Ar
39.291	79.142	20.748	94.576	78.282	26.577	19.897	993	J - Translatio map00970 Ar
68.445	106.298	61.535	137.88	124.789	52.051	67.628	993	J - Translatio map00970 Ar
374.334	512.722	271.325	675.184	498.068	287.207	307.023	993	J - Translatio map03010 Ril
634.079	797.841	385.823	1350.909	611.684	469.019	418.789	993	J - Translatio map03010 Ril
583.048	575.236	331.696	1046.185	432.767	321.359	359.753	993	J - Translatio map03010 Ril
518.072	613.702	334.929	1113.086	353.211	327.68	345.593	993	J - Translatio map03010 Ril
661.244	751.991	540.529	1437.243	591.448	455.275	501.035	993	J - Translation, ribosomal s
547.179	820.184	637.169	1406.702	536.403	482.206	467.381	993	J - Translatio map03010 Ril
455.664	673.456	415.879	1287.831	502.577	256.197	284.159	993	J - Translatio map03010 Ril
476.101	877.828	452.603	1539.423	665.713	376.157	406.185	993	J - Translatio map03010 Ril
25.323	36.634	21.189	98.396	29.469	19.215	24.651	993	J - Translatio map03010 Ril
44.425	74.85	44.269	125.407	48.893	55.495	58.814	993	J - Translation, ribosomal s
308.528	550.447	293.331	1119.546	283.993	244.31	229.693	993	J - Translatio map03010 Ril
328.534	643.706	293.43	1230.632	288.265	263.177	251.507	993	J - Translatio map03010 Ril
201.17	405.145	207.807	878.609	165.201	178.941	181.789	993	J - Translatio map03010 Ril
205.267	486.654	214.294	1057.59	143.205	175.154	183.304	993	J - Translatio map03010 Ril
160.41	462.242	190.07	1131.084	113.336	150.596	138.612	993	J - Translatio map03010 Ril
176.884	496.375	224.795	1176.621	135.594	143.672	141.003	993	J - Translatio map03010 Ril

222.111	605.302	255.436	1285.768	162.061	176.964	167.082	993	J - Translatio map03010 Ril
178.298	477.688	212.107	1034.645	149.167	133.819	133.5	993	J - Translatio map03010 Ril
196.246	602.192	262.374	1316.937	152.671	162.867	166.015	993	J - Translatio map03010 Ril
164.862	451.7	211.773	1005.267	127.02	110.31	117.445	993	J - Translatio map03010 Ril
198.143	479.213	247.695	1054.183	148.058	124.26	134.869	993	J - Translatio map03010 Ril
211.165	500.196	277.124	1131.952	145.619	135.707	162.757	993	J - Translatio map03010 Ril
254.52	611.641	376.406	1368.156	175.623	167.822	185.973	993	J - Translatio map03010 Ril
217.073	524.244	304.329	1233.609	139.909	138.711	156.303	993	J - Translatio map03010 Ril
227.659	601.098	356.282	1472.179	186.559	171.694	193.388	993	J - Translatio map03010 Ril
175.707	591.793	340.552	1331.265	166.598	162.157	191.523	993	J - Translatio map03010 Ril
189.564	537.458	364.221	1184.175	201.922	158.046	178.608	993	J - Translatio map03010 Ril
220.433	731.462	442.688	1617.469	252.221	184.72	249.96	993	J - Translatio map03010 Ril
553.675	742.6	675.778	935.144	831.389	355.849	527.388	993	J - Translatio map03010 Ril
21.034	27.84	21.18	44.721	50.865	14.478	16.824	993	J - Translatio map00624 Pc
327.175	883.252	386.409	1994.639	466.46	517.848	303.172	993	J - Translatio map03010 Ril
282.793	867.968	310.052	1879.193	399.608	489.439	298.14	993	J - Translatio map03010 Ril
202.844	472.251	246.597	978.601	368.554	257.335	216.412	993	J - Translatio map03010 Ril
348.566	609.968	323.183	1157.242	625.227	280.266	261.605	993	J - Translatio map03010 Ril
291.18	622.156	431.891	895.29	455.176	298.753	372.048	993	J - Translatio map03010 Ril
149.408	154.048	128.254	150.898	166.149	84.989	89.593	993	J - Translation, ribosomal s
40.245	71.587	20.445	90.951	86.992	26.031	29.199	993	J - Translatio map00970 Ar
68.377	58.552	44.969	91.242	126.358	32.136	39.438	993	J - Translation, ribosomal s
36.096	46.016	19.814	63.318	60.054	14.721	16.525	993	J - Translatio map00970 Ar
462.106	1008.021	680.852	1454.371	1130.197	386.245	504.596	993	J - Translatio map03010 Ril
238.679	184.984	98.538	226.935	319.632	93.618	117.909	993	J - Translatio map00970 Ar
379.652	796.077	426.897	1120.317	577.523	460.149	569.073	993	J - Translatio map03010 Ril
51.178	73.703	22.876	77.306	111.845	21.524	23.399	993	J - Translatio map00970 Ar
90.863	72.795	99.06	88.84	106.902	67.543	76.804	993	J - Translatio map04122 Su
80.386	113.917	65.889	168.665	202.229	56.106	49.187	993	J - Translation, ribosomal s

104.812	170.701	72.158	207.554	227.736	41.127	46.339	993	J - Translatio map00970 Ar
67.91	95.182	31.864	110.266	100.811	31.69	40.885	993	J - Translation, ribosomal s
5.164	12.898	5.247	24.32	14.138	8.624	7.691	993	J - Translation, ribosomal s
94.615	112.942	99.617	85.967	143.727	78.862	86.058	993	J - Translatio map00970 Ar
24.012	24.407	36.694	50.692	59.517	26.05	34.994	993	J - Translation, ribosomal s
12.337	26.564	16.502	29.801	32.219	10.936	12.818	993	J - Translation, ribosomal s
10.797	8.91	5.339	22.441	24.844	3.434	4.427	993	J - Translatio map01110 Bi
254.793	329.995	144.868	482.586	529.286	120.865	125.2	993	J - Translation, ribosomal s
196.445	530.254	231.728	835.502	446.184	218.571	266.054	993	J - Translatio map03010 Ril
311.46	496.022	229.106	542.222	461.707	240.874	258.518	993	J - Translatio map03010 Ril
133.37	300.566	189.035	317.419	364.45	163.994	159.98	993	J - Translatio map03010 Ril
85.253	54.172	41.022	77.318	90.711	45.9	38.071	993	J - Translation, ribosomal s
359.255	609.82	280.96	724.057	473.505	308.961	309.797	993	J - Translation, ribosomal s
123.618	131.194	103.407	134.53	199.625	76.997	91.332	993	J - Translatio map00970 Ar
136.741	324.324	155.915	876.634	219.557	78.019	92.511	993	J - Translatio map03010 Ril
2702.549	3429.272	1968.488	4861.06	2889.426	1411.121	1470.919	993	J - Translatio map04626 Pl
713.251	761.453	784.642	1041.518	788.829	626.822	585.667	993	J - Translation, ribosomal s
206.29	494.815	353.963	870.33	466.145	139.785	193.012	993	J - Translatio map03010 Ril
191.437	510.688	285.83	867.988	637.019	133.819	195.911	993	J - Translatio map03010 Ril
200.584	46.217	32.088	55.507	98.51	32.798	44.329	993	J - Translation, ribosomal s
930.207	811.744	942.277	1114.056	957.519	1004.605	1178.889	993	J - Translatio map03010 Ril
1115.676	1075.59	1137.24	1272.045	1226.246	1396.583	1344.191	993	J - Translatio map03010 Ril
110.924	175.029	90.976	174.83	153.302	76.76	83.502	993	J - Translatio map00970 Ar
11.408	31.172	8.693	56.644	35.076	9.246	10.628	993	J - Translation, ribosomal s
58.17	73.136	38.175	162.506	111.943	53.18	36.358	993	J - Translation, ribosomal s
59.655	64.265	46.952	85.042	137.3	30.082	32.735	993	J - Translatio map00970 Ar
36.929	41.471	25.014	47.578	67.951	19.828	23.917	993	J - Translation, ribosomal s
187.232	219.47	154.674	351.724	301.663	104.798	128.802	993	J - Translatio map03010 Ril
32.091	52.851	29.748	53.873	54.93	22.161	25.316	993	J - Translatio map00970 Ar

300.63	426.14	103.858	318.739	407.992	140.985	130.286	993	J - Translation, ribosomal s
32.464	28.529	35.333	58.917	59.651	15.466	23.685	993	J - Translation, ribosomal s
122.048	113.478	58.187	124.362	149.957	52.235	67.406	993	J - Translatio map00270 Cy
20.748	36.336	24.722	45.038	39.18	19.291	18.229	993	J - Translation, ribosomal s
261.878	327.412	209.355	149.975	159.48	663.379	327.872	993	J - Translation, ribosomal s
49.496	33.098	29.395	48.437	95.062	23.98	20.304	993	J - Translation, ribosomal s
574.297	856.62	484.956	1364.428	959.013	474.49	562.818	993	J - Translatio map03010 Ril
242.202	365.931	180.547	614.912	362.773	194.431	229.036	993	J - Translatio map03010 Ril
278.766	261.885	187.427	256.467	573.417	233.484	258.857	993	J - Translation, ribosomal s
111.658	103.631	43.05	81.104	107.134	63.349	42.16	993	J - Translation, ribosomal s
35.077	28.502	15.876	36.864	43.336	12.546	14.507	993	J - Translatio map00970 Ar
69.154	92.162	1524.906	143.562	48.389	104.845	85.731	993	J - Translation, ribosomal s
70.79	74.062	31.594	79.615	93.389	27.874	32.658	993	J - Translatio map00970 Ar
42.967	45.201	63.546	50.445	59.638	25.944	36.099	993	J - Translation, ribosomal s
368.652	520.567	155.726	453.751	595.602	212.971	246.278	993	J - Translation, ribosomal s
27.117	31.383	14.444	40.792	59.895	14.878	19.053	993	J - Translatio map00970 Ar
655.35	1000.712	652.911	1397.335	1389.899	530.266	600.511	993	J - Translatio map03010 Ril
126.688	137.796	68.359	169.184	213.142	74.165	73.088	993	J - Translatio map00970 Ar
834.028	862.883	551.388	941.985	1526.826	471.149	567.693	993	J - Translatio map03010 Ril
85.011	102.192	57.353	89.73	136.683	44.606	54.094	993	J - Translatio map00970 Ar
5.712	8.277	5.057	15.57	11.645	4.511	6.373	993	J - Translation, ribosomal s
54.007	82.593	56.201	122.449	92.95	41.727	50.937	993	J - Translatio map00450 Se
59.175	78.594	54.391	96.083	58.685	31.851	37.423	993	J - Translatio map00970 Ar
68.615	50.155	42.294	65.245	91.141	30.662	31.037	993	J - Translation, ribosomal s
50.348	55.408	71.284	63.557	61.674	48.998	42.991	993	J - Translation, ribosomal s
143.907	147.754	92.203	220.995	256.202	57.813	69.119	993	J - Translation, ribosomal s
76.508	94.344	98.024	101.266	150.624	95.824	88.585	993	J - Translatio map03013 RN
145.236	251.197	114.026	379.439	246.275	98.539	101.382	993	J - Translatio map03010 Ril
189.21	398.93	198.39	718.93	400.198	163.556	168.242	993	J - Translatio map03010 Ril

25.189	26.3	24.932	23.334	18.44	39.347	21.524	993	J - Translation, ribosomal s
83.589	51.898	38.244	68.457	49.385	22.805	28.974	993	J - Translatio map00330 Ar
14.489	20.914	10.687	54.874	37.896	11.681	10.974	993	J - Translatio map03018 RN
157.731	135.148	213.036	396.742	198.019	100.907	129.051	993	J - Translation, ribosomal s
37.511	62.831	41.239	58.451	67.481	32.214	32.152	993	J - Translatio map00970 Ar
11.476	20.195	10.213	27.341	15.434	6.199	7.335	993	J - Translation, ribosomal s
12.053	15.315	7.348	25.359	28.443	10.439	6.064	993	J - Translation, ribosomal s
46.988	47.273	20.543	53.786	58.35	19.942	20.547	993	J - Translation, ribosomal s
24.717	11.04	9.337	28.115	26.12	5.353	4.055	993	J - Translation, ribosomal s
77.163	70.663	37.398	57.936	93.372	29.215	26.713	993	J - Translation, ribosomal s
83.656	145.966	33.29	159.183	187.717	56.097	60.196	993	J - Translation, ribosomal s
116.465	130.398	112.991	170.012	195.066	91.507	100.717	993	J - Translatio map00970 Ar
265.35	147.108	106.192	227.814	351.811	119.256	110.655	993	J - Translation, ribosomal s
27.806	45.945	26.99	60.107	72.269	25.574	27.017	993	J - Translatio map00970 Ar
27.465	52.986	20.211	48.611	84.328	16.35	21.697	993	J - Translatio map00970 Ar
95.049	116.413	52.125	104.685	106.963	45.096	43.268	993	J - Translatio map00970 Ar
458.703	475.552	218.927	617.072	510.892	200.536	220.732	993	J - Translation, ribosomal s
12.714	15.233	7.353	22.587	38.005	10.724	7.639	993	J - Translation, ribosomal s
46.031	101.168	44.349	105.78	102.278	29.908	40.347	993	J - Translation, ribosomal s
19.365	27.824	23.525	27.602	30.636	15.709	26.473	993	J - Translation, ribosomal s
524.852	374.686	344.034	1849.393	423.031	203.524	247.737	993	J - Translatio map03018 RN
50.07	105.277	79.925	98.218	121.061	39.885	82.148	993	J - Translatio map00520 Ar
108.647	104.444	55.99	96.749	178.534	55.66	56.447	993	J - Translatio map00051 Fr
94.918	105.231	1028.06	176.037	116.351	98.099	89.023	993	J - Translation, ribosomal s
10.103	12.31	16.963	21.523	17.15	8.089	8.972	993	J - Translatio map03018 RN
12.347	18.569	4.152	25.818	13.807	6.057	5.41	981	K - Transcription
2.344	2.916	1.021	6.144	1.301	1.08	1.108	1041	K - Transcription
10.092	9.892	7.311	15.029	4.092	4.124	6.041	993	K - Transcription
9.967	7.733	11.14	19.229	18.712	11.283	9.048	993	K - Transcription

21.72	26.011	23.131	21.511	28.473	17.36	20.44	993	K - Transcription
68.536	98.308	28.805	183.744	93.806	30.146	20.275	993	K - Transcription
106.962	124.312	91.315	235.096	158.389	97.924	79.625	993	K - Transcription
236.292	233.474	215.588	225.187	401.726	209.555	158.731	993	K - Transcription
30.35	46.571	70.55	56.626	60.54	38.486	44.34	993	K - Transcription
61.725	40.927	78.773	48.7	73.641	60.809	53.159	993	K - Transcription
139.863	201.987	227.912	155.108	543.917	130.725	130.259	993	K - Transcription
62.58	75.327	67.122	102.451	142.584	47.749	55.175	993	K - Transcription
19.61	35.667	36.984	31.304	61.655	40.88	29.856	993	K - Transcription
48.177	67.637	42.608	96.036	54.535	37.408	49.717	993	K - Transcripi map03018 RN
457.654	737.316	432.57	1540.757	432.35	307.571	293.482	993	K - Transcripi map00240 Py
319.078	385.09	326.004	596.851	291.837	161.801	216.29	993	K - Transcripi map00240 Py
289.26	353.777	292.477	469.679	256.881	139.545	204.793	993	K - Transcripi map00240 Py
6.242	9.963	6.707	16.445	11.364	6.525	6.992	993	K - Transcription
173.155	260.947	293.836	571.823	242.689	166.559	198.437	993	K - Transcription
1521.735	1994.77	1318.843	1216.082	2050.646	3072.339	1852.04	993	K - Transcription
353.339	510.892	222.106	430.921	469.234	637.305	324.253	993	K - Transcription
24.427	34.449	13.333	38.67	64.382	17.254	15.226	993	K - Transcription
53.695	115.23	39.187	104.915	186.75	58.747	40.929	993	K - Transcription
4.808	7.14	9.073	12.196	9.291	6.601	8.315	993	K - Transcription
104.716	108.142	246.925	206.019	120.822	45.222	60.034	993	K - Transcripi map05111 Vil
162.193	209.077	160.564	253.141	359.984	133.24	171.802	993	K - Transcripi map05111 Vil
52.968	62.713	100.216	76.156	120.065	84.585	114.955	993	K - Transcription
1.917	4.912	3.214	9.1	4.064	2.65	2.158	993	K - Transcription
88.635	108.117	38.617	53.563	124.615	76.438	45.969	993	K - Transcription
21.578	25.796	31.48	40.337	78.574	28.803	25.637	993	K - Transcription
25.84	38.215	76.993	110.026	44.412	22.542	46.341	993	K - Transcription
15.312	18.805	14.528	34.265	45.5	14.316	16.098	993	K - Transcripi map00770 Pa
52.961	106.55	66.34	103.655	175.064	43.664	38.124	993	K - Transcription

306.177	458.861	522.518	570.824	376.549	395.438	438.404	993	K - Transcrip map00240 Py
197.294	207.58	103.486	234.419	510.675	91.414	99.385	993	K - Transcrip map00240 Py
214.849	280.712	88.156	383.99	573.404	101.864	101.277	993	K - Transcrip map03008 Ri
41.15	27.931	17.43	36.768	44.318	17.455	14.769	993	K - Transcription
2.905	4.513	2.666	14.029	5.693	2.763	2.977	993	K - Transcription
176.634	179.277	277.469	104.665	232.989	251.007	239.402	993	K - Transcrip map05111 Vi
143.622	158.929	149.02	174.94	306.577	121.924	144.326	993	K - Transcription
65.564	93.06	59.748	82.26	100.856	47.082	59.959	993	K - Transcrip map03008 Ri
12.181	9.281	18.247	38.359	27.585	9.641	11.785	993	K - Transcription
53.146	44.684	89.266	39.305	104.895	53.461	57.826	993	K - Transcrip map05111 Vi
14.833	13.457	12.088	27.972	29.474	7.545	9	993	K - Transcription
4.412	4.898	6.538	10.255	8.053	3.557	4.868	993	K - Transcription
79.066	162.039	206.098	169.374	167.42	39.646	101.005	993	K - Transcription
22.058	19.023	22.412	36.975	26.85	7.848	14.168	993	K - Transcription
7.998	13.157	2.352	13.595	16.359	13.576	3.344	993	K - Transcription
2.952	3.025	7.257	10.904	8.478	1.58	1.891	993	K - Transcription
288.767	328.391	477.743	337.37	278.746	274.612	304.755	993	K - Transcription
103.964	124.001	172.404	92.63	138.035	143.739	211.579	993	K - Transcription
62.371	80.164	51.421	60.862	133.462	63.872	52.847	993	K - Transcription
26.991	28.184	13.842	34.714	21.431	21.316	21.78	993	K - Transcription
5.896	9.685	10.484	11.455	7.229	14.221	14.005	993	K - Transcription
2.213	6.52	3.841	14.168	5.603	3.823	2.075	993	K - Transcription
37.519	30.695	39.658	39.085	43.184	26.206	29.643	993	K - Transcription
19.231	18.475	10.889	25.877	27.741	12.736	12.995	993	K - Transcription
17.096	32.826	34.235	35.735	28.615	20.799	29.006	993	K - Transcription
35.687	44.435	29.091	42.841	32.837	31.925	28.018	993	K - Transcription
10.985	12.988	23.342	35.868	15.299	12.749	10.907	993	K - Transcription> L - Replic
9.322	9.266	7.343	17.014	18.254	6.048	5.593	993	K - Transcrip map03440 H
19.365	18.231	15.15	32.381	33.213	12.713	13.107	993	K - Transcrip map03420 N

19.998	23.239	17.651	31.159	44.519	15.492	18.451	993	K - Transcription> L - Replic
78.503	68.381	79.812	76.972	144.981	59.625	65.408	993	K - Transcription> L - Replic
18.668	22.127	27.46	36.878	50.495	21.373	21.395	993	K - Transcription> L - Replic
166.463	207.495	306.193	202.532	363.888	239.073	248.111	993	K - Transcription> L - Replic
34.669	32.465	33.678	37.423	63.555	27.034	29.152	993	K - Transcription> L - Replic
15.208	21.779	21.691	34.573	44.717	13.447	18.509	993	K - Transcription> L - Replic
19.487	17.755	23.022	30.315	37.993	22.868	23.67	993	K - Transcription> L - Replic
8.439	11.647	15.106	13.033	7.787	19.835	15.656	993	K - Transcription> L - Replic
49.369	41.093	37.331	42.002	88.678	34.753	39.89	993	K - Transcription> L - Replic
215.357	149.339	122.517	124.765	274.32	68.255	117.403	993	K - Transcrip map02020 Tw
61.51	57.62	67.208	71.216	63.719	56.16	60.027	993	K - Transcrip map02020 Tw
79.704	87.137	82.835	80.882	157.243	55.338	63.349	993	K - Transcription> O - Postt
13.261	22.777	7.057	32.257	12.492	13.033	12.205	993	K - Transcription> O - Postt
133.759	148.199	121.868	107.938	233.789	163.858	118.728	993	K - Transcription> O - Postt
28.208	15.974	36.464	37.048	41.046	21.233	19.911	993	K - Transcription> P - Inorg
70.822	72.466	37.751	66.393	111.68	35.37	41.037	993	K - Transcription> T - Signa
38.283	55.103	72.949	50.146	82.513	59.292	57.585	993	K - Transcrip map00230 Pu
73.563	90.988	57.945	135.542	237.933	61.796	74.566	993	K - Transcription> T - Signa
31.437	29.382	39.603	40.702	60.25	32.75	35.786	993	K - Transcrip map02020 Tw
226.882	269.089	255.643	271.964	398.811	249.012	247.362	993	K - Transcrip map02020 Tw
70.853	175.25	64.541	164.709	182.405	71.037	70.082	993	K - Transcription> T - Signa
16.944	24.353	17.439	43.715	44.466	17.031	23.889	993	K - Transcription> T - Signa
442.612	472.82	253.76	405.88	789.292	251.404	299.448	993	K - Transcrip map02020 Tw
349.361	197.543	155.125	235.678	714.321	109.052	173.528	993	K - Transcrip map02020 Tw
197.713	204.242	98.81	142.128	356.26	104.985	117.703	993	K - Transcription> T - Signa
18.916	16.558	35.767	32.002	28.995	17.724	20.204	993	K - Transcription> T - Signa
58.218	72.829	94.44	72.092	121.216	55.919	67.256	993	K - Transcrip map02020 Tw
13.037	43.499	11.712	48.256	64.704	18.756	14.413	993	K - Transcription> T - Signa
19.834	22.422	34.063	39.57	45.205	39.969	31.849	993	K - Transcription> T - Signa

828.699	1922.891	1871.01	1505.999	2910.637	4294.013	2514.493	993	K - Transcription> T - Signa
52.112	59.796	67.482	83.325	123.015	62.875	65.202	993	K - Transcription> T - Signa
31.079	31.905	61.06	34.475	46.586	48.808	40.085	993	K - Transcription> T - Signa
15.739	20.062	21.842	37.316	34.175	17.45	20.498	993	K - Transcription> T - Signa
14.959	9.489	10.374	19.131	23.71	8.532	8.278	993	K - Transcription> T - Signa
9.761	19.924	14.076	28.117	20.801	10.444	11.985	993	K - Transcription> T - Signa
12.615	38.904	45.402	23.553	28.443	21.839	19.935	993	K - Transcription> T - Signa
49.621	89.685	111.574	76.947	57.982	76.282	60.538	993	K - Transcrip map00230 Pu
35.416	34.788	48.272	43.221	52.764	32.378	35.423	993	K - Transcription> T - Signa
17.482	14.981	23.382	31.984	42.03	16.678	19.817	993	K - Transcrip map02020 Tv
54.792	46.894	41.831	58.113	115.701	46.73	46.515	993	K - Transcription> T - Signa
184.59	266.683	215.87	256.06	455.808	217.78	254.302	993	K - Transcription> T - Signa
9.185	26.315	14.072	37.603	39.755	12.584	11.397	993	K - Transcription> T - Signa
40.934	90.666	52.227	78.806	171.303	45.984	50.336	993	K - Transcription> T - Signa
70.729	89.027	62.731	109.623	142.28	50.167	60.873	993	K - Transcription> T - Signa
399.739	591.369	314.466	528.837	1019.336	259.096	217.969	993	K - Transcrip map02020 Tv
123.289	201.408	89.521	242.881	550.471	81.183	94.002	993	K - Transcription> T - Signa
19.038	42.636	53.84	42.062	55.745	115.012	61.321	993	K - Transcrip map02020 Tv
606.414	624.394	373.202	318.621	944.056	277.025	303.195	993	K - Transcription> T - Signa
81.203	84.4	84.734	96.9	148.495	64.709	71.1	993	K - Transcription> T - Signa
311.456	352.424	173.26	209.139	621.931	199.863	159.085	993	K - Transcrip map02020 Tv
8.424	16.172	16.921	30.226	23.943	22.571	18.971	993	K - Transcription> T - Signa
26.091	54.578	31.996	38.55	56.629	51.38	38.154	993	K - Transcription> T - Signa
77.899	127.546	133.416	133.906	128.396	88.918	103.289	993	K - Transcrip map02020 Tv
71.65	87.31	100.905	102.332	160.861	110.624	107.675	993	K - Transcription> T - Signa
6.427	8.993	6.907	27.7	13.274	3.872	4.255	993	K - Transcrip map02020 Tv
19.573	225.343	68.905	181.533	45.802	29.865	23.106	993	K - Transcription> T - Signa
3.376	3.54	2.233	13.445	4.105	3.761	4.365	993	K - Transcription> T - Signa
72.376	99.96	80.668	108.254	124.848	93.896	71.142	993	K - Transcrip map02020 Tv

202.057	91.547	24.457	105.435	274.239	103.536	121.801	993	K - Transcription> T - Signa
30.284	33.474	39.707	33.268	41.37	27.397	20.683	993	K - Transcription> T - Signa
62.791	79.922	44.96	78.866	132.744	61.158	70.856	993	K - Transcription> T - Signa
38.064	43.871	37.485	50.789	87.539	36.658	38.82	993	K - Transcription> T - Signa
5.962	9.618	3.995	25.446	22.226	5.259	6.549	993	K - Transcription> T - Signa
81.955	114.541	84.058	94.287	169.498	83.995	87.898	993	K - Transcription> T - Signa
28.647	16.627	11.805	25.289	58.03	11.628	12.465	993	K - Transcription> T - Signa
9.133	13.808	15.061	28.133	17.772	8.002	10.308	993	K - Transcription> T - Signa
21.567	233.391	70.172	175.311	46.507	29.061	23.436	993	K - Transcription> T - Signa
14.524	20.702	11.012	21.256	23.954	9.587	10.331	2010	L - Replicatio map03030 DI
148.931	219.397	128.792	423.471	272.962	91.262	111.154	993	L - Replication, recombinat
43.495	67.01	58.253	116.53	115.616	87.017	56.173	993	L - Replicatio map03030 DI
33.117	37.064	18.798	46.35	121.046	25.144	23.759	993	L - Replication, recombinat
94.535	150.628	85.139	389.344	182.343	54.176	78.076	993	L - Replication, recombinat
2.075	5.163	4.517	17.113	5.864	1.092	5.494	993	L - Replication, recombinat
55.797	80.638	39.752	92.021	90.469	27.242	30.215	993	L - Replicatio map03030 DI
146.57	217.188	127.644	416.339	268.756	90.411	111.833	993	L - Replication, recombinat
90.486	146.839	83.172	376.768	175.129	52.717	79.241	993	L - Replication, recombinat
14.21	15.146	14.843	39.93	19.757	12.357	9.519	993	L - Replication, recombinat
8.682	15.518	11.752	16.824	15.693	7.575	6.912	993	L - Replication, recombinat
12.171	16.85	6.534	21.752	13.174	7.755	7.714	993	L - Replication, recombinat
35.227	48.447	61.851	109.166	92.572	46.41	40.501	993	L - Replication, recombinat
10.016	5.645	11.703	21.564	14.861	5.537	8.619	993	L - Replication, recombinat
13.881	16.595	9.228	50.143	30.996	11.527	5.558	993	L - Replication, recombinat
39.928	36.757	16.552	39.315	54.38	18.211	22.585	993	L - Replication, recombinat
94.183	149.906	84.782	387.622	180.851	54.014	77.144	993	L - Replication, recombinat
188.583	223.465	133.034	118.95	195.126	242.933	194.052	993	L - Replication, recombinat
77.909	98.985	90.139	174.52	208.093	72.407	79.594	993	L - Replication, recombinat
32.852	29.24	42.15	39.381	58.932	39.977	45.139	993	L - Replication, recombinat

71.251	100.026	59.759	55.74	63.355	87.327	71.993	993	L - Replication, recombinat
4.621	7.581	4.826	21.643	18.561	4.712	3.643	993	L - Replication, recombinat
39.046	46.625	29.255	51.897	56.606	31.02	28.653	993	L - Replicatio map03030 DI
114.552	130.588	118.05	201.381	225.174	104.04	104.534	993	L - Replication, recombinat
82.962	106.853	102.763	170.145	209.364	80.484	89.637	993	L - Replication, recombinat
17.063	27.475	34.878	42.738	47.648	36.496	19.631	993	L - Replication, recombinat
19.59	41.071	65.66	40.104	34.364	49.378	30.407	993	L - Replication, recombinat
463.979	614.722	587.21	946.507	617.725	295.015	378.389	993	L - Replication, recombinat
10.097	8.455	11.866	16.001	16.184	8.817	8.579	993	L - Replicatio map03420 Nu
19.725	14.249	11.25	31.601	31.003	12.67	10.432	993	L - Replicatio map03430 M
25.457	33.719	27.871	56.354	75.878	15.876	14.495	993	L - Replicatio map03420 Nu
49.114	58.734	92.255	180.644	138.021	66.399	61.646	993	L - Replication, recombinat
1798.576	3763.71	858.685	1695.503	4283.864	2115.717	1331.801	993	L - Replication, recombinat
122.556	32.375	30.868	37.743	93.574	52.857	57.964	993	L - Replicatio map03018 RN
34.023	41.836	39.251	51.982	56.865	35.359	33.225	993	L - Replicatio map03420 Nu
14.901	15.615	14.373	25.626	24.179	10.471	10.638	993	L - Replicatio map03030 DI
22.282	28.472	39.609	49.52	56.222	27.398	27.83	993	L - Replicatio map03440 Hc
141.951	209.931	123.473	396.652	259.474	86.249	104.767	993	L - Replication, recombinat
8.978	10.669	8.126	30.419	22.069	4.936	5.993	993	L - Replicatio map03440 Hc
24.937	27.94	14.895	39.152	48.21	16.286	16.87	993	L - Replicatio map03440 Hc
5.652	6.456	8.378	10.699	7.987	4.226	4.293	993	L - Replicatio map03420 Nu
14.566	17.297	9.489	52.994	31.965	12	5.785	993	L - Replication, recombinat
11.647	21.049	10.507	57.853	46.382	6.114	5.887	993	L - Replicatio map03430 M
81.219	164.023	82.493	189.943	174.569	87.435	98.58	993	L - Replication, recombinat
12.181	24.196	18.088	35.211	31.91	12.26	10.544	993	L - Replicatio map03430 M
44.236	52.94	80.202	172.506	134.574	57.307	50.198	993	L - Replication, recombinat
35.913	42.212	47.488	78.17	91.42	41.97	36.358	993	L - Replicatio map03410 Ba
4.415	7.277	3.51	22.478	25.043	2.24	3.473	993	L - Replication, recombinat
39.264	38.712	53.774	49.876	79.07	34.098	33.265	993	L - Replication, recombinat

85.029	140.345	79.058	340.418	164.681	49.148	74.114	993	L - Replication, recombinat
15.042	18.204	15.547	42.004	52.59	16.19	12.361	993	L - Replicatio map04112 Ce
26.756	22.723	16.065	42.934	45.137	9.615	10.109	993	L - Replicatio map03430 M
19.365	42.765	74.629	45.089	39.159	51.374	33.593	993	L - Replication, recombinat
18.824	27.603	36.437	41.289	55.951	33.044	24.276	993	L - Replication, recombinat
75.439	102.999	91.723	176.075	206.706	71.819	79.677	993	L - Replication, recombinat
144.827	159.933	137.379	228.005	255.814	130.049	125.928	993	L - Replication, recombinat
98.03	83.302	70.285	91.126	111.906	45.906	54.197	993	L - Replication, recombinat
73.958	92.338	120.332	168.072	184.962	123.207	132.34	993	L - Replication, recombinat
94.711	150.808	85.139	389.689	182.841	54.176	78.076	993	L - Replication, recombinat
34.941	50.902	93.243	154.899	132.656	63.612	56.29	993	L - Replication, recombinat
47.895	61.234	92.142	180.318	136.141	64.56	61.206	993	L - Replication, recombinat
23.238	19.595	17.708	61.826	40.02	13.159	11.857	993	L - Replication, recombinat
94.535	150.447	85.139	389.172	182.343	54.176	77.843	993	L - Replication, recombinat
71.153	52.526	70.433	67.481	60.534	56.451	43.949	993	L - Replication, recombinat
121.507	137.505	121.791	209.388	229.799	109.128	115.366	993	L - Replication, recombinat
88.186	109.637	94.907	186.3	217.927	72.782	90.467	993	L - Replication, recombinat
54.696	38.222	51.133	57.722	49.278	40.928	30.1	993	L - Replication, recombinat
3.037	2.029	2.951	7.752	5.224	1.825	3.321	993	L - Replication, recombinat
8.395	10.495	3.924	30.069	14.236	5.26	2.223	993	L - Replication, recombinat
144.107	212.771	125.35	407.199	263.68	87.763	106.126	993	L - Replication, recombinat
94.711	150.808	85.139	389.517	182.841	54.176	78.076	993	L - Replication, recombinat
45.884	50.047	19.066	50.311	67.381	31.974	23.652	993	L - Replication, recombinat
20.207	25.106	32.849	71.682	63.175	35.84	30.096	993	L - Replication, recombinat
19.509	23.99	10.131	24.607	10.415	9.188	8.035	993	L - Replication, recombinat
94.535	150.628	85.139	389.344	182.343	54.176	78.076	993	L - Replication, recombinat
14.395	17.385	9.489	52.826	31.965	12	5.785	993	L - Replication, recombinat
5.157	7.082	5.453	10.333	7.832	4.105	4.737	993	L - Replication, recombinat
11.372	8.705	11.137	18.191	18.651	7.911	8.405	993	L - Replicatio map03030 DI

8.275	6.576	11.839	13.221	20.046	10.892	10.508	993	L - Replication, recombinat
19.671	20.722	8.219	32.923	21.043	8.131	8.519	993	L - Replication, recombinat
94.535	150.628	85.139	389.344	182.343	54.176	78.076	993	L - Replication, recombinat
6.902	5.305	5.552	14.635	13.005	9.54	4.188	993	L - Replication, recombinat
19.436	21.886	16.492	48.491	29.577	20.86	13.572	993	L - Replication, recombinat
14.481	17.297	9.489	52.826	31.965	12	5.785	993	L - Replication, recombinat
15.404	9.471	8.72	24.765	16.481	8.313	6.992	993	L - Replication, recombinat
554.62	857.907	393.911	383.252	814.932	1278.528	842.681	993	L - Replicatio map03410 Ba
14.566	17.473	9.489	52.994	31.965	12	5.899	993	L - Replication, recombinat
5.611	7.734	8.173	14.82	9.332	3.386	4.93	993	L - Replication, recombinat
9.803	9.953	8.669	19.631	23.601	10.538	9.854	993	L - Replicatio map03030 DI
14.663	18.424	12.983	36.079	48.199	10.615	11.139	993	L - Replicatio map03440 Hc
6.555	3.819	2.742	12.2	12.35	5.566	4.764	993	L - Replication, recombinat
11.277	10.855	24.304	30.432	17.867	15.114	9.501	993	L - Replication, recombinat
9.227	11.089	22.337	44.366	22.052	14.694	13.723	993	L - Replication, recombinat
52.218	62.483	96.197	195.073	148.047	67.318	62.086	993	L - Replication, recombinat
14.629	21.892	5.453	52.423	56.512	7.467	5.713	993	L - Replicatio map03410 Ba
94.711	150.808	85.139	389.689	182.592	54.176	78.076	993	L - Replication, recombinat
22.031	23.785	21.452	52.873	57.631	12.748	12.761	993	L - Replication, recombinat
14.481	17.473	9.402	52.91	31.965	12	5.899	993	L - Replication, recombinat
10.594	10.505	23.957	29.094	17.384	15.114	9.501	993	L - Replication, recombinat
47.522	41.853	103.464	51.732	81.305	77.83	65.418	993	L - Replicatio map03440 Hc
20.659	26.741	17.045	36.178	53.777	18.32	21.387	993	L - Replicatio map00624 Pc
30.119	40.256	57.695	59.764	80.073	38.939	45.705	993	L - Replication, recombinat
52.218	62.256	96.197	195.833	148.361	67.012	61.94	993	L - Replication, recombinat
8.954	11.414	3.994	20.09	13.27	5.634	2.024	993	L - Replication, recombinat
148.418	218.871	128.583	423.27	272.672	91.262	111.018	993	L - Replication, recombinat
37.894	26.91	24.7	32.584	117.429	22.592	16.784	993	L - Replication, recombinat
52.218	62.483	96.197	195.073	148.047	67.318	62.086	993	L - Replication, recombinat

21.499	23.437	35.09	62.894	60.438	36.247	31.491	993	L - Replication, recombinat
7.928	13.237	8.541	27.489	23.082	7.62	8.143	993	L - Replicatio map00270 Cy
94.535	150.628	85.139	389.344	182.343	54.176	78.076	993	L - Replication, recombinat
148.828	219.292	128.687	423.471	272.527	91.167	111.154	993	L - Replication, recombinat
0.759	1.556	1.543	9.661	5.634	1.05	0.754	993	L - Replicatio map03410 Ba
52.511	56.205	59.638	72.799	122.711	52.346	60.03	993	L - Replication, recombinat
13.093	13.461	12.29	20.449	14.764	13.662	11.25	993	L - Replicatio map03420 Nu
17.653	12.498	9.294	22.379	34.469	8.281	9.879	993	L - Replicatio map03440 Ho
117.707	127.771	94.331	113.075	161.991	98.103	92.052	993	L - Replication, recombinat
5.62	7.242	3.845	10.401	12.188	3.23	2.431	993	L - Replication, recombinat
39.243	32.327	51.403	38.968	75.568	33.676	33.107	993	L - Replication, recombinat
31.83	38.944	33.489	50.979	94.135	43.671	30.856	993	L - Replicatio map03030 DI
13.377	18.995	13.397	19.636	18.363	10.389	10.626	993	L - Replication, recombinat
5.457	6.103	5.274	20.188	18.619	3.004	3.568	993	L - Replicatio map03030 DI
78.482	54.538	42.894	122.53	144.043	40.727	49.443	993	L - Replicatio map03030 DI
94.266	79.185	108.584	86.886	67.377	96.956	79.088	993	L - Replication, recombinat
46.364	58.614	91.829	177.551	132.926	61.968	58.866	993	L - Replication, recombinat
56.044	37.731	51.126	55.514	49.617	40.539	30.312	993	L - Replication, recombinat
16.49	13.388	10.181	24.826	14.698	12.155	10.076	993	L - Replication, recombinat
9.186	13.992	50.197	40.33	31.574	11.895	19.063	993	L - Replication, recombinat
23.937	47.679	76.241	44.218	38.766	56.254	31.69	993	L - Replication, recombinat
12.594	22.48	28.481	39.16	42.481	31.63	14.522	993	L - Replication, recombinat
52.218	62.483	96.197	195.073	148.204	67.318	62.086	993	L - Replication, recombinat
3.961	6.314	6.707	15.074	20.523	6.894	7.575	993	L - Replication, recombinat
52.108	62.256	95.747	194.856	146.951	66.705	61.94	993	L - Replication, recombinat
148.828	219.292	128.687	423.471	272.527	91.167	111.154	993	L - Replication, recombinat
66.097	119.363	73.179	357.35	156.226	46.7	71.417	993	L - Replication, recombinat
9.888	14.355	11.063	25.834	18.423	7.701	7.987	993	L - Replicatio map03440 Ho
11.893	10.312	8.598	43.646	21.977	7.376	3.634	993	L - Replication, recombinat

57.83	35.988	46.549	54.267	50.561	35.523	26.569	993	L - Replication, recombinat
55.316	79.2	114.714	193.788	170.965	78.895	68.217	993	L - Replication, recombinat
5.393	5.429	5.864	12.87	6.15	2.528	2.38	993	L - Replication, recombinat
440.47	448.911	391.162	258.16	632.511	327.747	407.564	993	L - Replicatio map03440 Hc
19.365	27.284	24.242	38.747	52.529	16.887	17.854	993	L - Replicatio map03440 Hc
35.654	54.675	34.832	72.711	141.635	43.304	37.465	993	L - Replicatio map03440 Hc
14.481	17.297	9.489	52.994	31.965	12	5.899	993	L - Replication, recombinat
1.357	1.669	1.655	8.501	3.452	2.001	0.719	993	L - Replication, recombinat
16.555	23.937	13.518	36.178	27.986	11.417	11.429	993	L - Replicatio map03430 M
10.442	11.672	5.208	16.907	19.852	7.697	6.535	993	L - Replication, recombinat
30.057	33.548	56.681	40.366	59.673	50.71	45.788	993	L - Replication, recombinat
13.358	19.951	13.252	17.573	20.033	11.727	12.679	993	L - Replication, recombinat
97.988	68.949	98.998	78.26	83.131	78.597	62.551	993	L - Replication, recombinat
148.931	219.292	128.792	423.37	272.817	91.262	111.018	993	L - Replication, recombinat
20.047	12.157	14.548	38.435	19.078	12.44	6.5	993	L - Replication, recombinat
15.437	12.926	10.287	39.796	21.813	9.023	5.933	993	L - Replication, recombinat
113.652	177.247	129.107	150.375	181.643	74.562	100.309	993	L - Replicatio map03440 Hc
17.985	18.827	22.052	24.595	19.929	12.935	12.376	993	L - Replicatio map03440 Hc
15.76	18.365	27.472	41.429	17.903	26.052	22.705	993	L - Replication, recombinat
18.58	14.748	11.832	28.17	17.195	13.261	10.913	993	L - Replication, recombinat
51.908	60.494	103.704	211.35	151.642	71.742	66.585	993	L - Replication, recombinat
17.143	28.301	26.932	34.483	35.439	20.914	23.325	993	L - Replication, recombinat
14.524	24.673	21.358	60.591	30.244	17.256	15.686	993	L - Replication, recombinat
4.919	8.606	7.732	15.53	12.786	3.933	5.099	993	L - Replication, recombinat
5.226	10.586	8.273	46.742	13.224	6.607	4.827	993	L - Replication, recombinat
14.524	24.282	22.134	60.591	30.784	19.016	17.204	993	L - Replication, recombinat
7.728	6.222	6.73	19.851	23.789	4.005	3.38	993	L - Replication, recombinat
14.566	17.473	9.489	53.497	31.965	12	5.899	993	L - Replication, recombinat
8.859	12.995	12.411	41.247	18.711	10.31	8.395	993	L - Replicatio map03440 Hc

16.62	11.047	10.497	25.788	16.926	9.519	8.325	993	L - Replication, recombinat
13.371	11.969	16.864	46.624	12.162	16.143	16.074	993	L - Replication, recombinat
14.481	17.297	9.489	53.329	31.965	12	5.785	993	L - Replication, recombinat
1.369	3.117	0.927	18.454	1.719	1.121	1.611	993	L - Replication, recombinat
6.059	8.765	7.695	26.594	8.688	7.225	8.021	993	L - Replication, recombinat
2.446	9.399	6.834	20.646	6.481	7.043	5.667	993	L - Replication, recombinat
5.379	7.855	4.645	31.058	18.053	7.93	6.231	993	L - Replication, recombinat
20.161	36.879	19.355	45.546	17.266	68.931	29.926	993	L - Replication, recombinat
20.942	38.409	18.445	34.096	18.554	75.358	28.21	993	L - Replication, recombinat
12.843	18.371	17.602	28.932	23.263	19.537	16.09	993	L - Replication, recombinat
12.051	14.249	12.559	29.938	24.89	16.229	15.546	993	L - Replication, recombinat
12.283	39.308	21.124	62.32	11.24	51.533	22.194	993	L - Replication, recombinat
27.535	74.91	42.129	99.014	30.212	112.328	49.892	993	L - Replication, recombinat
23.958	39.874	30.467	53.02	31.863	67.306	36.901	993	L - Replication, recombinat
4.577	12.086	10.195	23.343	6.965	27.169	13.518	993	L - Replication, recombinat
0.625	2.88	2.856	7.641	0.441	5.468	3.721	993	L - Replication, recombinat
5.42	3.276	9.179	23.393	7.659	7.811	3.864	993	L - Replication, recombinat
0	0	1.601	11.018	0.636	0.207	0.596	993	L - Replication, recombinat
96.472	154.957	87.107	395.374	188.314	54.987	81.805	993	L - Replication, recombinat
13.986	16.693	16.708	20.755	9.338	17.134	14.853	993	L - Replication, recombinat
95.768	154.236	86.57	394.34	188.065	54.501	81.339	993	L - Replication, recombinat
95.768	154.236	86.57	394.34	188.065	54.501	81.339	993	L - Replication, recombinat
17.494	36.868	32.363	95.936	45.011	21.898	15.076	993	L - Replication, recombinat
16.314	25.28	14.554	44.001	25.865	15.765	14.75	993	L - Replication, recombinat
16.667	31.212	32.612	39.579	20.808	37.637	25.37	993	L - Replication, recombinat
8.299	11.339	12.804	37.45	6.298	13.169	10.784	993	L - Replication, recombinat
17.494	36.868	32.363	95.936	45.011	21.898	15.076	993	L - Replication, recombinat
14.481	17.297	9.489	53.497	31.965	12	5.785	993	L - Replication, recombinat
17.15	18.524	24.175	47.477	19.431	24.628	18.41	993	L - Replication, recombinat

85.751	81.378	113.498	81.194	108.291	46.979	55.842	993	L - Replicatio map00230 Pu
8.342	11.448	16.497	20.554	23.365	9.745	9.269	993	L - Replication, recombinat
14.123	28.571	19.009	42.318	43.103	16.434	17.059	993	L - Replication, recombinat
218.934	279.608	142.116	279.871	285.286	87.664	86.869	1089	M - Cell wall, map00051 Fr
145.339	101.899	61.021	151.536	169.15	59.909	63.91	993	M - Cell wall, map00521 St
6.455	9.213	10.657	15.002	26.387	8.603	8.546	993	M - Cell wall/membrane/e
65.281	77.787	57.352	70.405	106.212	41.663	50.844	993	M - Cell wall/membrane/e
72.526	81.994	139.391	79.655	126.58	52.723	43.749	993	M - Cell wall, map00520 Ar
265.001	259.204	416.236	204.75	278.899	287.176	222.51	993	M - Cell wall/membrane/e
41.561	22.071	18.416	32.285	47.905	13.661	15.814	993	M - Cell wall/membrane/e
51.716	33.623	24.047	33.389	30.296	27.259	33.165	993	M - Cell wall, map00120 Pr
84.902	142.727	37.833	136.18	179.282	36.314	43.199	993	M - Cell wall, map01110 Bi
92.153	71.792	32.526	76.469	94.81	35.057	29.112	993	M - Cell wall/membrane/e
277.003	336.928	924.129	282.566	474.766	667.645	718.664	993	M - Cell wall/membrane/e
61.152	123.759	125.817	100.836	145.821	52.119	141.678	993	M - Cell wall, map00521 St
79.937	139.085	107.226	112.202	135.701	51.056	109.075	993	M - Cell wall/membrane/e
19.154	39.902	32.464	90.468	43.961	15.787	44.196	993	M - Cell wall/membrane/e
23.048	63.897	57.02	97.249	58.223	26.764	64.162	993	M - Cell wall/membrane/e
32.79	69.534	54.148	114.021	78.413	30.137	71.956	993	M - Cell wall/membrane/e
24.929	53.014	38.175	85.206	44.007	22.37	58.257	993	M - Cell wall/membrane/e
39.78	76.027	58.16	108.451	75.11	34.141	77.813	993	M - Cell wall, map00520 Ar
21.43	42.774	40.657	52.776	40.041	24.237	68.843	993	M - Cell wall/membrane/e
52.665	107.839	86.515	147.264	107.538	50.776	126.268	993	M - Cell wall, map00051 Fr
16.825	44.531	36.795	79.296	55.972	22.315	56.834	993	M - Cell wall/membrane/e
21.747	34.05	34.38	51.196	56.841	19.127	57.482	993	M - Cell wall/membrane/e
20.19	26.304	32.487	43.557	57.273	16.39	41.735	993	M - Cell wall/membrane/e
49.325	65.707	91.6	80.182	130.108	45.195	116.092	993	M - Cell wall, map00520 Ar
39.231	68.074	76.455	78.388	88.176	38.162	95.912	993	M - Cell wall/membrane/e
20.579	40.359	41.918	38.447	48.003	34.112	33.502	993	M - Cell wall/membrane/e

311.994	365.302	237.745	347.283	665.652	247.509	308.286	993	M - Cell wall/membrane/e
44.672	54.049	18.112	51.515	88.167	21.16	20.685	993	M - Cell wall, map00540 Li
48.755	41.897	30.185	76.281	112.539	25.747	24.631	993	M - Cell wall, map00510 N-
40.465	42.841	30.877	56.194	81.143	38.212	33.343	993	M - Cell wall, map01110 Bi
19.869	33.224	14.792	37.304	50.388	18.08	16.015	993	M - Cell wall/membrane/e
26.905	48.379	32.124	50.814	69.984	25.185	23.255	993	M - Cell wall/membrane/e
105.16	276.051	86.43	178.782	165.418	134.724	134.883	993	M - Cell wall/membrane/e
93.687	102.659	85.188	122.352	219.069	86.146	99.997	993	M - Cell wall, map00550 Pe
15.904	14.312	10.172	21.652	23.58	9.453	9.873	993	M - Cell wall/membrane/e
105.318	129.02	83.746	91.243	194.419	84.69	79.652	993	M - Cell wall/membrane/e
428.657	266.582	214.539	246.378	633.023	213.201	201.891	993	M - Cell wall/membrane/e
13.805	14.466	17.073	30.81	36.191	13.008	15.299	993	M - Cell wall/membrane/e
72.426	100.682	38.857	139.053	141.549	35.52	38.861	993	M - Cell wall/membrane/e
13.699	17.124	11.076	27.583	35.979	12.225	13.578	993	M - Cell wall/membrane/e
104.7	185.252	587.829	208.949	208.599	110.65	130.863	993	M - Cell wall/membrane/e
6.268	11.593	11.96	16.233	18.471	11.832	9.614	993	M - Cell wall/membrane/e
4.561	8.915	5.632	13.801	9.32	6.853	5.573	993	M - Cell wall/membrane/e
32.853	57.477	48.441	49.108	53.784	36.454	40.577	993	M - Cell wall/membrane/e
26.591	35.66	12.76	46.415	80.704	12.865	18.02	993	M - Cell wall/membrane/e
40.794	55.051	17.023	82.069	111.429	22.821	24.472	993	M - Cell wall/membrane/e
729.052	596.931	529.929	774.675	704.997	302.048	533.305	993	M - Cell wall/membrane/e
90.046	110.24	88.21	96.858	151.414	113.399	97.278	993	M - Cell wall, map04112 Ce
260.123	323.2	343.014	224.12	313.653	256.213	203.433	993	M - Cell wall/membrane/e
37.021	24.804	21.411	36.136	49.899	19.154	19.102	993	M - Cell wall/membrane/e
195.209	271.198	116.201	178.897	305.035	171.946	124.244	993	M - Cell wall/membrane/e
241.529	416.503	113.401	251.158	359.573	264.155	195.174	993	M - Cell wall/membrane/e
36.014	30.975	17.636	54.887	78.087	18.06	18.29	993	M - Cell wall/membrane/e
25.22	29.614	24.777	34.091	37.995	19.078	23.125	993	M - Cell wall/membrane/e
55.904	62.719	57.151	71.684	93.086	32.127	39.066	993	M - Cell wall/membrane/e

39.193	73.028	29.596	80.793	97.932	24.05	26.648	993	M - Cell wall/ map00473 D-
18.724	55.456	24.952	70.719	66.235	16.306	22.411	993	M - Cell wall/ map00550 Pe
47.889	67.105	25.325	72.921	130.811	33.033	37.849	993	M - Cell wall/membrane/e
16.92	26.976	11.841	34.389	40.294	12.755	11.356	993	M - Cell wall/membrane/e
115.714	151.095	194.204	156.457	257.348	129.37	155.603	993	M - Cell wall/membrane/e
248.644	325.214	115.144	192.376	313.78	255.491	150.745	993	M - Cell wall/membrane/e
293.688	876.147	348.248	615.515	1446.282	568.635	391.558	993	M - Cell wall/ map00471 D-
106.65	123.384	64.597	110.125	131.591	72.728	101.506	993	M - Cell wall/membrane/e
44.642	36.525	21.851	51.317	80.276	28.895	31.649	993	M - Cell wall/ map00520 Ar
132.723	173.933	119.488	188.629	284.269	125.309	138.932	993	M - Cell wall/membrane/e
193.791	131.968	160.424	122.559	196.243	107.844	137.387	993	M - Cell wall/membrane/e
14.34	15.448	2.802	25.907	31.434	8.978	6.328	993	M - Cell wall/membrane/e
4.533	4.645	3.582	18.567	7.592	3.249	4.446	993	M - Cell wall/membrane/e
2.307	3.976	2.877	15.803	8.15	3.382	2.499	993	M - Cell wall/membrane/e
1.032	3.033	0.839	12.664	3.599	0.317	0.456	993	M - Cell wall/membrane/e
20.05	18.57	15.279	37.733	68.834	12.198	12.421	993	M - Cell wall/membrane/e
40.947	65.194	38.176	65.929	56.273	41.613	41.184	993	M - Cell wall/membrane/e
4.212	5.953	4.206	18.477	16.931	3.345	4.038	993	M - Cell wall/membrane/e
329.847	402.533	186.726	307.718	414.759	263.899	244.772	993	M - Cell wall/ map00550 Pe
11.917	13.738	10.443	35.714	40.835	7.823	8.48	993	M - Cell wall/ map00600 Sp
9.552	13.337	19.467	22.03	29.521	11.683	13.238	993	M - Cell wall/membrane/e
7.216	9.569	10.105	24.45	23.137	8.493	6.262	993	M - Cell wall/membrane/e
75.14	75.164	49.75	99.396	75.867	23.823	21.214	993	M - Cell wall/ map00550 Pe
16.675	24.143	13.991	39.375	51.839	13.481	11.679	993	M - Cell wall/membrane/e
106.083	125.942	172.034	135.732	136.392	110.624	109.277	993	M - Cell wall/ map00561 Gl
55.016	89.213	35.928	51.212	93.246	35.564	33.439	993	M - Cell wall/ map00051 Fr
71.506	64.364	75.459	67.536	175.516	45.269	43.987	993	M - Cell wall/ map00550 Pe
64.68	114.359	58.906	89.19	143.91	56.02	47.641	993	M - Cell wall/membrane/e
160.005	126.009	184.51	126.845	173.452	103.561	168.294	993	M - Cell wall/membrane/e

21.851	31.208	15.948	33.733	23.802	24.65	22.714	993	M - Cell wall/membrane/e
39.357	48.797	15.297	72.866	80.357	10.479	12.132	993	M - Cell wall/membrane/e
112.638	92.715	54.696	183.342	266.748	25.979	27.831	993	M - Cell wall, map00540 Li
30.336	42.487	22.729	57.195	31.943	21.26	21.709	993	M - Cell wall/membrane/e
29.552	50.794	22.968	57.098	54.698	28.218	21.485	993	M - Cell wall/membrane/e
1165.935	1462.255	1528.727	1177.681	1988.707	1643.011	1539.477	993	M - Cell wall/membrane/e
41.923	66.912	56.3	56.176	73.211	88.13	62.097	993	M - Cell wall/membrane/e
40.381	59.977	15.807	68.17	87.691	25.717	22.487	993	M - Cell wall/membrane/e
6.262	13.164	4.14	25.337	19.206	5.975	3.882	993	M - Cell wall/membrane/e
26.825	23.909	5.806	31.688	46.878	9.214	11.978	993	M - Cell wall, map00521 St
35.609	46.44	33.246	53.084	65.772	33.535	35.444	993	M - Cell wall, map00510 N-
1687.779	668.21	293.065	613.969	1126.183	600.129	459.478	993	M - Cell wall/membrane/e
55.24	62.417	38.469	61.058	102.155	41.377	29.033	993	M - Cell wall/membrane/e
58.236	61.925	22.602	66.557	110.724	21.737	25.137	993	M - Cell wall/membrane/e
164.769	152.188	94.782	163.303	231.285	91.385	103.662	993	M - Cell wall, map00540 Li
4.351	7.284	5.043	13.433	5.196	4.348	3.002	993	M - Cell wall/membrane/e
30.863	50.383	124.352	30.794	47.673	45.652	55.881	993	M - Cell wall/membrane/e
99.968	169.687	441.516	141.597	116.329	159.77	164.514	993	M - Cell wall/membrane/e
57.065	77.012	55.663	70.092	103.186	54.476	68.441	993	M - Cell wall, map00540 Li
533.436	582.752	189.916	549.281	904.506	487.052	247.551	993	M - Cell wall, map00520 Ar
71.044	61.881	123.913	64.487	99.094	69.598	83.291	993	M - Cell wall/membrane/e
32.66	30.671	18.876	41.845	48.442	16.167	16.007	993	M - Cell wall, map00521 St
5.827	11.318	3.888	18.553	13.887	4.247	7.254	993	M - Cell wall/membrane/e
205.311	179.265	156.115	182.667	426.784	195.102	227.673	993	M - Cell wall, map00564 Gl
49.097	41.791	26.929	64.795	41.875	14.869	21.364	993	M - Cell wall/membrane/e
83.79	52.118	60.937	62.203	89.653	43.667	45.072	993	M - Cell wall/membrane/e
63.88	58.735	30.119	87.436	161.908	29.292	30.401	993	M - Cell wall, map00550 Pe
16.428	21.307	12.257	40.697	47.775	12.578	11.347	993	M - Cell wall/membrane/e
53.875	100.858	26.322	140.687	191.363	29.386	42.353	993	M - Cell wall, map00540 Li

329.081	154.925	47.935	383.481	522.889	37.652	44.546	993	M - Cell wall/membrane/e
284.025	505.036	499.064	338.839	512.204	395.984	337.755	993	M - Cell wall, map00473 D-
18.97	35.579	20.908	35.884	57.201	12.016	12.557	993	M - Cell wall, map00521 St
37.158	45.265	24.946	87.744	113.689	22.118	25.685	993	M - Cell wall/membrane/e
4.278	4.038	2.517	17.298	14.637	2.178	1.64	993	M - Cell wall/membrane/e
5.193	8.008	6.32	21.483	12.568	5.921	5.037	993	M - Cell wall/membrane/e
75.039	91.375	38.319	91.084	149.067	46.189	47.346	993	M - Cell wall, map00520 Ar
23.733	42.446	40.016	38.827	42.383	23.678	24.288	993	M - Cell wall/membrane/e
7.74	8.864	12.305	28.426	20.073	5.453	5.304	993	M - Cell wall/membrane/e
10.821	16.05	12.634	17.093	10.463	18.542	14.075	993	M - Cell wall, map00550 Pe
178.093	146.709	47.575	133.662	221.827	50.895	56.737	993	M - Cell wall, map00550 Pe
458.363	94.496	84.67	91.21	131.639	41.748	65.648	993	M - Cell wall/membrane/e
19.881	20.027	23.35	27.14	23.951	21.268	14.99	993	M - Cell wall/membrane/e
66.281	54.128	35.438	60.363	138.669	34.824	37.268	993	M - Cell wall, map00550 Pe
81.114	178.824	63.4	103.085	156.396	99.756	77.139	993	M - Cell wall, map00300 Ly
55.697	68.936	29.582	74.114	111.037	26.606	31.925	993	M - Cell wall/membrane/e
11.655	21.834	12.027	26.733	33.068	11.159	10.126	993	M - Cell wall/membrane/e
102.841	129.219	47.207	121.166	182.416	46.558	53.434	993	M - Cell wall, map00520 Ar
243.342	311.059	195.973	208.473	280.264	306.726	209.757	993	M - Cell wall, map00550 Pe
51.974	76.377	34.617	64.002	69.959	35.769	32.288	993	M - Cell wall, map00520 Ar
49.732	50.209	40.468	52.616	90.073	34.874	34.765	993	M - Cell wall/membrane/e
245.593	319.904	215.628	250.196	501.241	255.703	248.574	993	M - Cell wall/membrane/e
179.418	45.88	105.658	105.693	391.41	20.406	20.609	993	M - Cell wall/membrane/e
53.644	46.087	21.42	37.137	43.473	26.26	23.983	993	M - Cell wall, map04112 Ce
99.107	145.971	76.916	155.604	214.906	79.251	81.693	993	M - Cell wall/membrane/e
207.707	223.876	610.822	214.321	273.118	441.381	410.021	993	M - Cell wall, map05134 Le
372.133	380.39	218.282	271.384	800.524	206.62	232.667	993	M - Cell wall/membrane/e
53.773	55.676	50.245	80.578	101.314	49.104	51.38	993	M - Cell wall/membrane/e
19.65	31.246	16.359	43.732	51.54	15.32	13.485	993	M - Cell wall/membrane/e

7.409	8.435	10.196	21.175	16.175	5.382	6.902	993	M - Cell wall/membrane/e
10.563	6.201	9.39	13.351	8.551	11.354	9.76	993	M - Cell wall/membrane/e
19.894	19.083	19.89	30.478	34.938	18.331	21.205	993	M - Cell wall/membrane/e
6.12	5.335	10.58	17.61	9.81	5.471	6.167	993	M - Cell wall/membrane/e
124.666	101.686	350.858	126.634	239.229	223.07	320.847	993	M - Cell wall/membrane/e
4.522	37.669	7.675	51.229	11.878	6.274	3.733	993	M - Cell wall/membrane/e
5.61	7.882	5.332	23.909	19.692	4.336	4.672	993	M - Cell wall, map01110 Bi
17.283	13.582	20.917	26.099	26.187	11.804	15.201	993	M - Cell wall, map00500 St
23.847	15.682	11.548	28.353	30.968	11.773	11.212	993	M - Cell wall, map00510 N-
45.004	52.386	35.258	40.933	73.116	39.325	31.739	993	M - Cell wall/membrane/e
2.928	5.412	5.949	16.797	17.603	5.289	4.484	993	M - Cell wall/membrane/e
18.397	24.804	12.727	29.432	33.264	16.114	10.655	993	M - Cell wall/membrane/e
67.597	62.653	65.401	115.983	178.372	42.624	59.107	993	M - Cell wall, map03060 Pr
279.062	261.952	139.219	194.772	378.759	146.668	120.328	993	M - Cell wall/membrane/e
85.255	95.479	97.353	102.258	133.799	76.468	138.839	993	N - Cell motility
43.766	48.443	57.094	50.317	79.613	41.672	38.584	993	N - Cell motility
84.237	120.492	92.363	74.538	145.029	99.224	72.353	993	N - Cell motility> O - Posttr
47.092	54.118	47.846	52.114	72.97	49.067	62.15	993	N - Cell motility> P - Inorga
44.313	44.539	45.885	56.229	74.602	50.988	37.333	993	N - Cell motility> S - Functi
131.485	192.363	139.243	194.746	308.281	207.989	150.549	993	N - Cell motil map02020 Tw
208.372	235.963	181.519	223.647	368.422	175.011	168.276	993	N - Cell motil map02020 Tw
439.544	263.452	184.469	236.701	403.618	113.452	199.13	993	N - Cell motil map02020 Tw
501.995	480.815	271.478	431.121	944.056	220.287	320.955	993	N - Cell motil map02020 Tw
132.806	129.27	153.514	117.256	171.374	104.979	115.086	993	N - Cell motil map02020 Tw
292.77	356.8	325.666	304.316	504.241	301.855	272.96	993	N - Cell motil map02020 Tw
23.847	21.129	22.954	37.55	39.272	21.642	21.127	993	N - Cell motil map02020 Tw
83.245	90.565	82.239	99.143	90.351	86.819	88.635	993	N - Cell motil map02020 Tw
190.388	153.284	178.638	162.971	163.117	226.222	186.591	993	N - Cell motil map02020 Tw
558.88	500.308	710.076	484.788	651.576	893.881	628.315	993	N - Cell motil map02020 Tw

10.72	15.798	6.743	16.386	17.962	7.808	7.502	993	N - Cell motility> T - Signal
48.877	67.314	27.129	64.231	73.883	29.337	34.314	993	N - Cell motility> T - Signal
165.897	89.841	69.56	85.426	142.206	64.978	85.389	993	N - Cell motility> U - Intrac
57.181	37.44	32.854	44.516	53.953	27.269	29.265	993	N - Cell motility> U - Intrac
191.44	241.773	232.994	275.944	325.487	426.812	102.998	993	N - Cell motil map02020 Tw
4549.922	4205.637	6811.64	3677.497	7351.588	9680.414	2738.07	993	N - Cell motil map02020 Tw
39.61	66.24	94.977	52.303	76.569	98.88	72.156	993	N - Cell motility> U - Intrac
237.192	400.368	224.392	229.645	334.613	274.111	229.06	993	N - Cell motility> U - Intrac
163.683	335.141	178.111	199.079	272.919	215.237	194.166	993	N - Cell motility> U - Intrac
153.361	178.242	146.875	95.348	143.804	250.419	172.736	993	N - Cell motility> U - Intrac
221.779	280.432	270.319	174.241	260.586	303.66	270.019	993	N - Cell motility> U - Intrac
235.177	292.986	347.573	188.362	216.604	363.407	328.261	993	N - Cell motility> U - Intrac
200.124	261.114	300.258	158.385	196.032	300.936	281.149	993	N - Cell motility> U - Intrac
61.567	87.838	153.497	101.498	102.838	124.219	176.393	993	N - Cell motility> U - Intrac
62.288	76.879	125.941	33.746	39.948	94.89	108.169	993	N - Cell motility> U - Intrac
14.019	12.133	11.27	19.099	21.143	10.819	11.196	993	N - Cell motil map05133 Pe
162.112	147.541	155.675	94.611	163.269	132.467	142.394	993	N - Cell motility> U - Intrac
70.869	56.86	90.133	48.959	60.611	50.963	47.384	993	N - Cell motility> U - Intrac
11.718	14.037	64.726	18.089	27.053	35.127	21.194	993	N - Cell motil map02020 Tw
89.106	109.844	98.095	91.245	207.713	64.004	65.963	993	N - Cell motility> U - Intrac
1.985	2.496	1.375	8.651	5.736	1.829	0.955	966	O - Posttranslational modif
47.405	28.971	38.799	38.431	42.907	28.477	23.689	993	O - Posttranslational modif
225.734	150.159	78.744	165.327	218.298	73.09	65.529	993	O - Posttranslational modif
54.397	31.388	41.854	58.143	76.495	36.861	42.825	993	O - Posttranslational modif
105.896	82.498	108.523	89.753	123.784	131.079	100.832	993	O - Posttranslational modif
301.838	283.874	174.601	134.801	293.058	345.436	220.223	993	O - Posttranslational modif
161.127	227.04	204.867	568.257	391.501	210.39	177.447	993	O - Posttranslational modif
200.961	180.7	201.355	193.939	269.855	170.073	141.549	993	O - Posttranslational modif
36.625	36.42	27.496	65.679	66.285	30.255	26.99	993	O - Posttranslational modif

181.339	214.379	114.227	188.507	221.016	116.374	113.654	993	O - Posttranslational modif
67.672	87.042	77.53	81.282	105.166	46.583	38.04	993	O - Posttranslational modif
119.884	85.298	44.53	71.315	170.71	52.771	50.549	993	O - Posttranslational modif
206.612	238.959	123.886	211.184	320.483	101.007	87.339	993	O - Posttranslational modif
148.398	190.494	135.608	136.443	170.834	114.17	85.77	993	O - Posttranslational modif
229.946	275.635	219.491	403.908	462.005	132.699	129.854	993	O - Posttranslational modif
47.969	29.765	34.572	42.07	65.204	33.952	33.182	993	O - Posttranslational modif
210.641	136.067	208.395	32.873	230.36	261.994	226.808	993	O - Posttrans map04141 Pr
278.333	186.496	215.398	171.487	307.538	150.117	156.003	993	O - Posttranslational modif
493.143	694.382	949.52	1367.837	531.468	395.601	373.834	993	O - Posttranslational modif
69.519	94.649	49.085	126.547	106.05	57.839	59.936	993	O - Posttranslational modif
294.93	195.239	51.72	191.38	348.484	93.673	94.425	993	O - Posttranslational modif
255.303	226.803	70.245	165.62	275.449	148.639	113.142	993	O - Posttranslational modif
36.333	54.253	51.721	38.313	69.462	61.136	44.372	993	O - Posttranslational modif
254.163	585.098	151.935	477.181	543.098	82.522	100.767	993	O - Posttranslational modif
23.954	35.853	23.093	45.038	52.64	14.425	18.229	993	O - Posttranslational modif
93.952	115.287	98.338	104.515	153.103	61.465	79.884	993	O - Posttrans map03018 RN
57.796	56.935	28.756	54.373	86.091	22.921	28.201	993	O - Posttranslational modif
168.788	125.182	176.588	128.171	180.516	123.612	121.718	993	O - Posttranslational modif
276.74	261.389	110.806	329.995	402.623	142.578	103.13	993	O - Posttranslational modif
61.958	72.091	60.785	125.438	170.02	60.894	57.154	993	O - Posttranslational modif
1159.969	1159.702	388.257	753.814	2004.666	598.145	488.13	993	O - Posttranslational modif
115.035	95.536	144.501	82.265	229.15	84.959	105.519	993	O - Posttranslational modif
849.698	1784.773	443.792	818.232	2586.659	90.046	171.432	993	O - Posttranslational modif
1296.887	2493.814	672.908	1218.052	2745.986	179.594	354.542	993	O - Posttrans map05134 Le
180.979	124.122	123.54	140.953	164.575	126.117	125.332	993	O - Posttranslational modif
35.427	29.679	20.556	38.613	69.992	17.559	16.783	993	O - Posttranslational modif
13.813	33.928	7.017	33.196	58.555	17.593	12.639	993	O - Posttranslational modif
124.022	151.834	111.418	202.173	346.354	115.174	105.86	993	O - Posttranslational modif

91.059	95.561	88.926	89.672	165.399	56.081	52.75	993	O - Posttranslational modif
8.32	10.47	9.195	16.57	14.851	6.859	5.411	993	O - Posttranslational modif
9.919	14.229	10.221	22.463	17.019	8.486	9.567	993	O - Posttranslational modif
17.512	22.217	22.311	49.371	58.328	13.574	15.64	993	O - Posttranslational modif
61.571	55.277	27.234	84.618	286.687	29.037	32.813	993	O - Posttranslational modif
21.725	36.066	17.305	38.719	30.241	23.67	18.639	993	O - Posttranslational modif
2749.545	2753.553	632.19	1941.019	3797.826	584.296	518.946	993	O - Posttranslational modif
9.417	13.319	100.531	20.768	24.553	7.577	10.185	993	O - Posttranslational modif
224.947	384.519	46.328	711.962	876.282	82.781	75.346	993	O - Posttranslational modif
363.933	171.867	133.473	406.211	822.242	77.874	93.037	993	O - Posttrans map00590 Ar
6.971	14.957	7.378	17.126	11.698	8.564	7.018	993	O - Posttrans map00480 Gl
189.717	175.445	247.789	152.541	204.823	166.236	144.938	993	O - Posttranslational modif
67.524	95.001	90.917	89.178	81.198	61.166	68.784	993	O - Posttranslational modif
179.368	150.109	217.558	99.115	183.673	148.388	141.003	993	O - Posttranslational modif
13.65	25.415	18.435	29.403	33.401	15.031	18.511	993	O - Posttranslational modif
43.187	42.682	33.188	111.45	96.342	29.592	39.036	993	O - Posttranslational modif
191.636	172.79	116.517	311.943	375.81	81.334	69.919	993	O - Posttranslational modif
313.746	275.676	200.536	368.008	497.989	157.628	116.943	993	O - Posttrans map01110 Bi
577.803	463.812	473.885	407.433	585.736	415.683	320.924	993	O - Posttrans map01110 Bi
38.453	73.42	69.237	85.006	120.532	60.58	46.635	993	O - Posttranslational modif
27.963	70.015	35.07	56.251	64.034	28.111	27.343	993	O - Posttranslational modif
220.929	163.531	126.036	185.937	452.471	113.51	79.852	993	O - Posttrans map00590 Ar
16.109	24.436	26.548	26.315	42.48	20.453	15.617	993	O - Posttranslational modif
47.6	55.689	70.449	92.246	73.618	39.369	43.914	993	O - Posttranslational modif
48.911	56.018	51.588	59.749	49.18	50.952	42.64	993	O - Posttranslational modif
2.069	2.798	1.513	6.641	4.911	1.83	2.958	993	O - Posttranslational modif
21.929	19.882	22.105	28.426	29.933	13.911	14.516	993	O - Posttranslational modif
28.433	53.802	28.889	65.705	45.475	15.778	19.677	993	O - Posttranslational modif
40.709	49.356	65.588	55.706	70.329	51.251	63.595	993	O - Posttranslational modif

52.108	50.555	53.168	68.46	70.812	42.597	43.886	993	O - Posttranslational modif
1129.374	1275.866	935.136	867.494	1506.198	1160.968	1099.571	993	O - Posttrans map03018 RN
204.183	146.742	183.68	111.039	244.324	148.006	181.251	993	O - Posttranslational modif
4526.499	1774.323	40154.726	1530.169	1160.814	23916.481	32394.465	993	O - Posttranslational modif
63.586	98.475	55.208	105.641	219.32	70.438	63.71	993	O - Posttranslational modif
3.101	7.635	6.11	14.768	10.903	4.705	5.508	993	O - Posttranslational modif
884.879	699.906	1136.018	660.636	856.621	858.785	837.364	993	O - Posttranslational modif
534.413	419.408	717.747	596.349	264.119	240.746	245.49	993	O - Posttranslational modif
89.608	84.24	221.344	75.891	126.623	99.733	154.91	993	O - Posttranslational modif
13.186	15.666	18.154	24.405	26.194	10.301	9.614	993	O - Posttranslational modif
668.663	1009.633	301.903	581.722	1200.203	126.221	177.604	993	O - Posttrans map05134 Le
385.686	353.558	160.232	377.08	586.967	182.565	197.334	993	O - Posttranslational modif
30.856	42.852	42.833	70.898	147.733	37.282	38.156	993	O - Posttranslational modif
95.463	78.354	51.846	74.675	122.472	66.837	51.967	993	O - Posttrans map00480 Gl
75.531	90.969	58.812	73.751	86.238	44.799	53.66	993	O - Posttrans map03018 RN
480.789	421.707	228.545	367.031	508.477	239.804	201.045	993	O - Posttranslational modif
29.57	32.384	21.78	54.009	53.36	13.757	14.921	993	O - Posttranslational modif
17.997	12.833	32.72	46.758	37.328	19.394	21.875	993	O - Posttranslational modif
85.577	151.457	64.814	148.25	212.491	53.013	53.542	993	O - Posttranslational modif
88.167	130.907	172.446	151.826	227.523	79.347	54.441	993	O - Posttranslational modif
55.707	74.208	51.748	58.603	132.696	50.961	42.538	993	O - Posttranslational modif
114.135	324.751	202.538	501.141	272.9	30.492	67.957	993	O - Posttranslational modif
45.21	166.891	85.207	309.031	87.522	14.267	25.737	993	O - Posttranslational modif
62.829	201.076	119.415	363.585	125.036	18.923	30.663	993	O - Posttranslational modif
23.751	31.667	10.485	20.945	40.043	10.565	10.77	993	O - Posttranslational modif
81.821	55.686	46.529	51.815	83.694	37.373	32.797	993	O - Posttranslational modif
602.998	540.726	426.566	342.423	1162.967	613.832	534.459	993	O - Posttranslational modif
13.43	11.522	20.944	24.452	14.785	17.411	18.607	993	O - Posttranslational modif
132.132	101.898	198.465	98.795	174.946	114.988	127.016	993	O - Posttranslational modif

76.548	99.449	66.664	111.361	169.978	35.58	51.123	993	O - Posttranslational modif
146.542	172.21	113.756	146.715	254.745	71.795	95.833	993	O - Posttranslational modif
66.756	75.546	62.598	104.843	123.23	40.806	43.456	993	O - Posttrans map04112 Ce
161.113	246.505	72.156	352.67	224.796	64.641	78.459	993	O - Posttranslational modif
10.627	10.164	16.659	15.649	19.736	10.538	11.925	993	O - Posttrans map02010 AE
409.678	550.455	239.167	516.091	518.671	319.428	206.76	993	O - Posttranslational modif
76.993	61.203	93.397	69.295	111.928	70.08	79.382	993	O - Posttranslational modif
110.115	106.071	124.758	114.478	213.066	103.649	108.025	993	O - Posttranslational modif
34.15	2.614	1.196	15.173	49.643	1.628	0.78	993	O - Posttrans map05133 Pe
99.636	92.905	59.242	87.576	148.791	48.411	53.159	993	O - Posttrans map00982 Dr
83.703	132.473	33.185	87.132	96.293	24.896	29.119	993	O - Posttrans map04621 NC
63.257	69.083	52.058	68.915	121.722	46.925	50.084	993	O - Posttranslational modif
17.157	25.587	24.335	30.919	37.205	19.877	16.866	993	O - Posttranslational modif
102.953	88.02	67.509	81.973	108.954	57.211	44.688	993	O - Posttrans map00450 Se
38.306	41.95	44.177	57.384	65.93	31.113	28.121	993	O - Posttranslational modif
11.79	20.314	8.936	43.08	69.261	10.776	10.007	993	O - Posttranslational modif
69.675	46.495	93.36	57.223	105.163	73.994	51.274	993	O - Posttranslational modif
331.215	308.579	202.67	418.208	737.918	233.532	183.259	993	O - Posttrans map04112 Ce
409.522	496.03	296.143	618.782	900.988	279.767	243.425	993	O - Posttrans map04112 Ce
23.823	51.178	40.766	52.761	44.146	18.196	25.452	993	O - Posttranslational modif
175.889	199.229	139.999	222.405	544.322	112.166	105.318	993	O - Posttrans map04112 Ce
206.145	202.715	187.736	303.54	417.873	113.304	117.907	993	O - Posttrans map04112 Ce
15.706	15.834	11.325	20.906	13.96	13.537	12.185	1032	P - Inorganic map02010 AE
20.25	18.454	20.49	25.989	14.307	23.705	21.205	1050	P - Inorganic map02010 AE
14.432	27.222	19.986	25.097	27.927	19.819	17.889	948	P - Inorganic map02010 AE
6.478	8.14	8.106	20.318	9.298	6.502	6.184	2556	P - Inorganic ion transport
1.669	1.454	1.187	7.923	2.831	1	0.995	1044	P - Inorganic map02010 AE
1.479	2.377	2.186	8.455	3.04	1.58	1.602	2592	P - Inorganic ion transport
9.706	11.13	7.832	17.076	6.09	8.491	6.355	2487	P - Inorganic ion transport

3.367	6.796	5.322	21.369	11.968	4.795	4.593	2562	P - Inorganic ion transport
3.51	5.126	6.241	15.887	5.332	4.366	4.182	993	P - Inorganic map02010 AE
7.355	7.823	12.959	16.673	18.813	6.176	7.642	993	P - Inorganic map02010 AE
23.883	29.236	46.04	39.922	62.39	25.931	27.688	993	P - Inorganic ion transport
16.957	27.297	28.003	43.566	43.797	21.666	24.62	993	P - Inorganic ion transport
236.138	245.498	118.945	307.983	339.109	104.843	99.37	993	P - Inorganic ion transport
170.984	207.694	35.726	106.301	62.308	89.633	63.595	993	P - Inorganic map02010 AE
1489.481	2512.343	735.855	983.808	1110.964	2030.272	1931.546	993	P - Inorganic map04978 M
113.631	131.555	89.93	138.24	121.202	64.511	63.85	993	P - Inorganic map01120 M
84.227	91.317	76.408	108.827	103.877	53.268	45.798	993	P - Inorganic ion transport
287.962	211.905	289.296	308.587	394.75	253.76	201.297	993	P - Inorganic ion transport
153.235	104.345	53.163	121.595	109.425	66.879	71.008	993	P - Inorganic ion transport
149.968	356.843	44.6	328.172	425.448	79.54	73.022	993	P - Inorganic map01120 M
70.543	106.989	78.338	85.408	92.873	110.755	94.101	993	P - Inorganic ion transport
27.531	43.603	24.072	48.968	57.652	19.298	22.145	993	P - Inorganic ion transport
12.863	14.991	13.931	19.78	27.064	15.303	19.274	993	P - Inorganic ion transport
69.797	54.604	87.901	56.647	118.118	62.192	85.764	993	P - Inorganic ion transport
19.622	8.78	14.277	16.351	29.664	13.185	16.675	993	P - Inorganic map02010 AE
18.73	15.498	21.066	29.014	27.034	13.29	19.493	993	P - Inorganic map02010 AE
33.682	24.593	35.896	30.341	52.545	29.706	35.046	993	P - Inorganic map02010 AE
70.372	101.875	14.3	80.588	140.91	33.662	40.041	993	P - Inorganic ion transport
16.19	23.421	30.964	28.27	46.878	29.835	25.007	993	P - Inorganic ion transport
86.778	69.575	23.61	77.46	114.415	57.208	36.052	993	P - Inorganic ion transport
93.187	95.392	35.127	97.571	144.562	83.251	56.151	993	P - Inorganic ion transport
4.799	17.6	39.521	40.29	6.425	7.215	10.032	993	P - Inorganic ion transport
71.252	57.494	70.881	73.129	45.957	63.821	68.365	993	P - Inorganic ion transport
97.018	88.55	82.488	111.286	81.066	59.148	60.76	993	P - Inorganic ion transport
85.931	85.022	91.954	103.306	85.132	58.732	65.517	993	P - Inorganic ion transport
94.267	76.247	102.938	64.281	83.908	70.461	79.024	993	P - Inorganic ion transport

5.766	7.135	2.542	17.566	5.534	4.711	5.617	993	P - Inorganic map02010 AE
11.681	11.652	6.617	21.142	8.034	11.239	10.401	993	P - Inorganic map02010 AE
30.281	39.799	21.737	51.053	24.651	29.721	32.573	993	P - Inorganic map02010 AE
12.419	17.376	25.539	32.574	38.346	15.129	18.655	993	P - Inorganic ion transport
166.078	305.719	87.204	179.386	259.494	210.33	134.703	993	P - Inorganic ion transport
1435.153	519.082	330.842	600.015	975.428	203.371	201.095	993	P - Inorganic ion transport
131.429	179.656	182.634	148.756	232.839	137.299	126.23	993	P - Inorganic ion transport
64.855	60.684	24.997	61.385	118.095	34.724	27.267	993	P - Inorganic ion transport
381.364	350.563	16.662	578.499	144.708	108.984	134.536	993	P - Inorganic map02010 AE
649.557	480.849	26.17	881.956	203.884	178.771	205.745	993	P - Inorganic map02010 AE
763.225	538.246	17.857	995.205	244.788	183.953	196.596	993	P - Inorganic map02010 AE
884.607	735.729	21.986	1233.302	427.171	220.098	244.841	993	P - Inorganic map02010 AE
17.871	17.537	9.286	40.445	31.175	4.559	6.936	993	P - Inorganic ion transport
81.726	116.032	104.545	63.596	77.918	79.838	68.438	993	P - Inorganic ion transport
18.284	14.218	17.523	27.664	46.726	14.816	12.704	993	P - Inorganic map02010 AE
98.345	117.783	86.851	106.393	164.184	42.822	60.705	993	P - Inorganic ion transport
48.776	44.581	29.904	60.373	91.627	22.974	25.864	993	P - Inorganic ion transport
5973.283	5276.739	202.877	3960.348	9490.942	586.96	612.293	993	P - Inorganic map02020 Tv
2958.486	1842.158	95.804	1838.246	3041.514	269.346	295.838	993	P - Inorganic map02010 AE
1647.404	869.622	75.353	1007.497	1658.48	194.888	220.16	993	P - Inorganic map02010 AE
502.132	380.267	29.621	481.667	703.816	66.909	73.8	993	P - Inorganic map02010 AE
131.196	113.106	52.795	107.386	179.006	129.358	66.656	993	P - Inorganic ion transport
31.965	16.591	13.812	30.936	25.733	14.593	17.912	993	P - Inorganic ion transport
5.109	6.69	7.691	16.018	10.295	6.713	9.144	993	P - Inorganic map02020 Tv
8.236	5.702	4.862	13.723	5.347	9.024	9.872	993	P - Inorganic map02020 Tv
5.967	8.543	5.796	18.807	8.804	11.482	11.966	993	P - Inorganic map02020 Tv
195.793	210.834	96.028	141.374	207.562	102.645	94.9	993	P - Inorganic ion transport
30.034	30.137	38.118	30.663	39.577	34.137	28.618	993	P - Inorganic map02020 Tv
45.189	42.86	59.922	57.345	59.817	48.57	51.867	993	P - Inorganic map02020 Tv

22.964	29.141	19.933	34.825	38.467	20.598	22.147	993	P - Inorganic map02020 Tv
9.23	10.515	10.095	33.898	29.308	7.054	6.972	993	P - Inorganic map02010 AE
10.302	18.949	14.327	35.367	25.296	9.025	9.39	993	P - Inorganic map02010 AE
264.041	164.711	165.935	116.15	136.077	142.468	163.601	993	P - Inorganic map01110 Bi
40.862	51.837	35.548	71.351	91.592	27.907	33.53	993	P - Inorganic ion transport
3001.881	1022.568	1187.143	874.087	3094.245	480.41	565.294	993	P - Inorganic map05016 Hu
29.047	32.354	57.169	34.564	41.132	51.143	42.607	993	P - Inorganic ion transport
152.988	244.53	218.735	178.414	273.859	93.028	82.104	993	P - Inorganic ion transport
112.295	214.179	322.423	204.847	224.267	194.307	179.184	993	P - Inorganic ion transport
37.612	63.632	47.674	72.613	69.725	35.771	40.797	993	P - Inorganic map00910 Ni
34.021	40.672	32.545	53.833	83.779	30.063	25.417	993	P - Inorganic map02010 AE
11.457	10.91	10.347	16.987	11.938	9.916	10.112	993	P - Inorganic map04978 M
8.957	13.506	12.221	21.664	23.868	6.72	8.809	993	P - Inorganic map02010 AE
165.443	166.409	44.08	161.03	166.283	47.23	51.93	993	P - Inorganic map00450 Se
10.061	7.674	8.992	20.283	14.11	6.97	9.013	993	P - Inorganic ion transport
829.388	871.59	219.206	739.271	1108.933	401.651	399.88	993	P - Inorganic map00195 Ph
144.967	107.45	70.808	89.69	126.855	43.782	53.027	993	P - Inorganic ion transport
20.011	17.367	19.035	23.63	61.966	14.346	15.612	993	P - Inorganic ion transport
58.987	42.684	52.374	49.936	61.28	28.443	24.915	993	P - Inorganic ion transport
69.182	45.927	61.141	70.656	91.875	30.793	36.25	993	P - Inorganic map02010 AE
134.999	174.393	161.474	149.516	313.54	187.111	186.687	993	P - Inorganic ion transport
18.447	31.74	17.484	26.809	75.672	19.661	23.146	993	P - Inorganic map02010 AE
142.815	112.52	109.89	101.535	216.735	78.264	87.981	993	P - Inorganic map00910 Ni
182.205	244.754	117.667	350.213	284.478	81.798	87.482	993	P - Inorganic ion transport
658.62	629.185	212.667	609.713	675.182	262.826	353.156	993	P - Inorganic map02010 AE
662.706	519.119	172.047	557.563	593.341	235.819	265.485	993	P - Inorganic map02010 AE
1332.539	818.221	392.681	958.771	1165.39	396.903	484.298	993	P - Inorganic map02010 AE
3188.978	2175.074	752.106	2403.482	3345.112	1053.971	1160.192	993	P - Inorganic map02010 AE
8623.154	7216.326	1694.052	5821.323	10661.672	2719.521	2818.561	993	P - Inorganic map02020 Tv

359.513	490.721	82.583	438.024	1224.313	140.967	132.141	993	P - Inorganic map02020 Tw
76.877	74.518	27.064	92.393	167.648	37.217	39.501	993	P - Inorganic ion transport
63.598	48.459	22.057	107.02	285.017	26.576	36.836	993	P - Inorganic map02010 AE
149.852	98.293	48.616	216.497	523.574	59.544	87.941	993	P - Inorganic map02010 AE
312.088	165.298	98.696	307.129	992.547	145.147	208.911	993	P - Inorganic map02010 AE
64.156	130.706	70.574	79.097	101.366	87.971	68.885	993	P - Inorganic ion transport
278.576	391.084	17.015	581.905	236.402	164.627	226.68	993	P - Inorganic map00910 Ni
126.065	199.622	6.886	401.559	112.192	51.565	39.481	993	P - Inorganic map00910 Ni
87.142	80.77	90.172	118.92	111.188	64.792	75.633	993	P - Inorganic ion transport
40.219	46.15	43.63	98.601	111.396	33.197	34.018	993	P - Inorganic ion transport
44.042	76.925	98.12	77.709	79.693	43.535	54.936	993	P - Inorganic map02020 Tw
90.792	57.949	57.772	73.756	51.652	50.543	63.639	993	P - Inorganic ion transport
46.461	53.906	81.847	125.588	98.221	26.696	27.703	993	P - Inorganic ion transport
67.846	28.589	4.504	35.519	160.573	27.725	15.672	993	P - Inorganic ion transport
284.361	348.857	182.093	160.232	113.793	245.656	166.345	993	P - Inorganic map02010 AE
11.338	15.179	57.428	33.123	52.506	48.648	51.822	993	P - Inorganic map02010 AE
104.493	129.068	101.596	85.843	153.831	76.62	108.645	993	P - Inorganic ion transport
3014.903	2361.142	102.945	1922.924	809.041	1830.422	1849.872	993	P - Inorganic ion transport
234.091	170.749	57.892	187.749	260.858	50.994	80.023	993	P - Inorganic map00190 Ox
10.903	9.508	13.316	25.3	14.862	11.314	11.774	993	P - Inorganic map02020 Tw
199.219	96.238	214.023	118.742	79.858	66.348	43.718	993	P - Inorganic ion transport
17.179	17.727	14.429	39.882	19.443	8.415	10.013	993	P - Inorganic ion transport
5.851	8.994	7.148	21.336	12.205	6.675	8.761	993	P - Inorganic ion transport
17.134	27.468	27.079	40.054	26.771	10.864	9.594	993	P - Inorganic ion transport
2.592	1.953	1.162	8.431	4.74	1.054	1.312	993	P - Inorganic ion transport
5.328	4.784	4.791	20.858	12.194	4.605	4.62	993	P - Inorganic map02010 AE
2.572	5.492	3.376	14.475	5.907	3.753	3.406	993	P - Inorganic map02010 AE
1.603	2.431	316.755	8.471	3.081	2.659	2.207	993	P - Inorganic map02010 AE
0.413	1.483	149.978	7.486	1.169	1.905	0.684	993	P - Inorganic map02010 AE

13.523	11.229	99.848	16.34	13.58	9.936	8.578	993	P - Inorganic map02010 AE
9.648	12.411	113.357	18.883	14.939	7.66	9.784	993	P - Inorganic map02010 AE
36.833	52.702	21.982	44.836	111.395	18.21	25.472	993	P - Inorganic ion transport
35.897	47.312	27.451	47.79	82.092	26.764	24.853	993	P - Inorganic ion transport
38.796	40.876	25.975	45.948	80.546	25.481	23.969	993	P - Inorganic ion transport
20.472	26.689	14.212	32.726	31.277	20.739	22.988	993	P - Inorganic ion transport
24.572	40.854	20.584	46.341	32.998	47.38	60.214	993	P - Inorganic ion transport
210.731	318.123	166.361	250.942	352.942	238.828	195.706	993	P - Inorganic ion transport
11.52	7.083	13.46	9.663	28.488	3.488	5.774	993	P - Inorganic map02010 AE
7.131	7.414	9.802	14.572	10.965	4.928	7.358	993	P - Inorganic map02010 AE
16.808	20.15	23.212	25.312	32.053	18.269	17.175	993	P - Inorganic map02010 AE
22.584	20.24	23.905	24.091	39.917	14.586	15.19	993	P - Inorganic ion transport
179.683	145.866	49.944	87.372	141.687	312.33	104.15	993	P - Inorganic map01110 Bi
17.622	19.182	16.724	30.826	58.103	12.192	10.255	993	P - Inorganic ion transport
7.922	16.413	12.359	21.52	22.939	12.285	12.723	993	P - Inorganic ion transport
109.257	62.386	131.792	40.74	29.706	64.184	50.376	993	P - Inorganic ion transport
4.577	5.953	8.228	13.782	8.458	4.542	4.894	993	P - Inorganic ion transport
52.32	50.923	37.869	50.344	110.774	27.731	37.297	993	P - Inorganic ion transport
12.589	7.639	15.435	17.413	12.622	12.637	21.788	993	P - Inorganic ion transport
99.562	168.325	58.211	132.522	198.719	51.313	53.838	993	P - Inorganic ion transport
102.386	173.733	59.653	134.266	203.774	52.958	54.547	993	P - Inorganic ion transport
4.744	27.092	8.259	53.457	10.154	5.24	4.885	993	P - Inorganic ion transport
196.923	239.65	183.586	234.72	342.401	132.737	122.152	993	P - Inorganic ion transport
10.882	15.014	12.275	30.27	29.786	10.027	12.592	993	P - Inorganic ion transport
197.345	244.071	154.36	195.189	426.38	136.576	160.347	993	P - Inorganic ion transport
25.339	23.115	35.038	50.38	72.136	9.51	9.9	993	P - Inorganic ion transport
44.22	70.005	61.581	72.096	73.378	42.987	45.008	993	P - Inorganic map00624 Pc
10.39	16.044	27.059	44.536	31.327	20.157	18.986	993	P - Inorganic ion transport
10.961	10.811	10.162	19.844	16.844	9.595	12.153	993	P - Inorganic ion transport

31.162	24.975	31.435	39.752	50.639	17.843	21.953	993	Q - Secondary metabolites
10.407	5.801	10.051	22.886	22.866	4.215	2.12	993	Q - Secondary metabolites
77.789	90.309	64.726	112.195	222.176	67.416	83.466	993	Q - Secondary metabolites
29.556	29.765	23.507	44.038	62.512	24.655	21.962	993	Q - Secondary metabolites
69.335	80.057	46.813	128.514	201.77	48.708	40.665	993	Q - Secondary metabolites
98.549	106.888	57.233	113.012	248.768	50.169	43.905	993	Q - Secondar map00361 Ch
136.742	114.009	93.545	113.189	191.301	79.905	91.21	993	Q - Secondary metabolites
34.468	40.036	37.514	50.145	92.209	21.769	29.383	993	Q - Secondary metabolites
42.749	56.722	27.524	38.769	55.65	20.343	29.127	993	Q - Secondary metabolites
86.099	184.395	61.54	122.753	157.005	130.158	72.082	993	Q - Secondary metabolites
65.518	180.407	36.399	118.598	163.499	109.88	46.146	993	Q - Secondary metabolites
34.017	25.946	25.726	60.73	85.268	9.975	10.652	993	Q - Secondary metabolites
58.276	58.787	112.958	55.315	71.681	67.661	65.478	993	Q - Secondary metabolites
47.101	66.867	41.707	62.674	124.705	57.059	42.461	993	Q - Secondary metabolites
109.012	161.78	82.114	142.295	306.396	155.387	110.842	993	Q - Secondary metabolites
38.71	37.281	32.706	38.736	65.97	27.461	30.595	993	Q - Secondary metabolites
24.282	26.621	23.875	21.846	14.666	24.117	18.58	993	Q - Secondar map00624 Po
8.238	17.596	10.272	26.75	19.578	6.358	8.711	993	Q - Secondar map00906 Ca
28.064	32.433	23.222	39.694	44.153	18.66	16.776	993	Q - Secondar map00906 Ca
354.461	42.607	12.939	73.343	648.563	15.528	14.715	993	Q - Secondary metabolites
44.86	107.728	23.866	96.602	89.459	49.146	39.821	993	Q - Secondary metabolites
13.752	24.102	34.605	29.809	49.037	18.356	12.081	993	R - General function predic
69.001	110.471	63.808	132.353	251.467	70.982	49.247	993	R - General fı map02010 AB
188.585	320.768	85.108	288.081	303.263	117.613	81.262	993	R - General function predic
33.289	46.49	32.417	54.234	67.498	28.548	30.52	993	R - General function predic
3.609	5.051	3.488	17.744	9.702	2.109	1.865	993	R - General function predic
32.767	20.085	20.515	45.238	60.901	15.231	15.163	993	R - General function predic
53.931	58.107	58.924	80.717	131.683	50.239	58.799	993	R - General function predic
173.683	226.803	94.026	389.149	188.947	56.956	49.579	993	R - General function predic

40.153	42.088	43.601	40.838	72.805	36.634	51.506	993	R - General function predic
11.286	16.678	14.485	34.762	52.126	12.205	12.425	993	R - General function predic
22.69	37.183	16.595	45.187	55.019	14.968	13.325	993	R - General fı map00860 Pc
52.498	122.063	21.661	79.148	140.272	71.084	33.693	993	R - General function predic
65.24	91.672	66.851	91.543	157.627	47.884	51.847	993	R - General function predic
45.891	43.326	20.17	78.885	109.415	21.696	26.054	993	R - General function predic
26.378	29.121	37.01	44.559	51.696	33.274	48.225	993	R - General function predic
51.771	79.575	118.05	79.669	124.813	72.827	169.779	993	R - General function predic
48.648	57.432	80.62	78.883	97.887	41.052	73.68	993	R - General function predic
13.398	24.573	16.701	32.943	42.319	11.618	16.545	993	R - General fı map00620 Py
685.189	421.171	66.089	659.186	634.683	197.568	282.688	993	R - General function predic
41.593	43.779	41.226	62.824	79.377	34.158	47.134	993	R - General function predic
55.871	40.66	44.975	44.27	68.344	27.916	35.971	993	R - General function predic
109.633	130.221	78.495	122.289	193.543	77.875	85.857	993	R - General function predic
4.512	11.27	5.158	15.317	14.745	7.146	5.04	993	R - General function predic
7.262	9.922	3.865	34.855	11.239	6.691	5.036	993	R - General function predic
12.973	13.582	16.046	44.156	14.346	5.976	9.707	993	R - General function predic
15.492	16.095	5.137	39.585	39.83	5.551	6.267	993	R - General fı map00240 Py
53.515	42.502	19.808	69.143	56.577	33.153	24.771	993	R - General fı map00630 Gl
21.019	32.815	12.282	49.171	55.833	17.787	19.944	993	R - General function predic
53.076	53.764	42.028	51.791	119.699	43.018	54.562	993	R - General function predic
41.566	24.323	92.062	39.085	34.613	82.988	88.462	993	R - General function predic
318.333	388.243	213.643	384.533	391.671	174.082	216.157	993	R - General function predic
39.173	77.242	19.433	76.769	92.931	58.334	29.654	993	R - General fı map00361 Ch
26.511	31.19	27.019	33.991	40.41	28.686	27.84	993	R - General function predic
35.899	35.26	42.68	36.589	53.675	28.96	26.031	993	R - General function predic
127.848	154.902	99.033	128.816	246.275	81.234	93.43	993	R - General fı map01110 Bi
114.367	71.416	225.776	87.341	121.377	148.57	112.066	993	R - General function predic
38.986	35.067	51.061	81.116	74.129	12.131	16.21	993	R - General function predic

7.561	12.378	35.415	15.972	23.846	5.608	6.714	993	R - General function predic
57.989	65.332	52.206	63.214	91.724	50.726	44.286	993	R - General fı map00680 M
30.101	28.531	17.432	45.363	61.25	17.473	21.718	993	R - General function predic
115.055	104.54	56.146	64.755	100.112	51.569	57.027	993	R - General function predic
125.96	133.004	84.276	111.519	254.283	135.833	102.961	993	R - General fı map02010 AE
100.667	143.939	74.457	138.005	248.469	73.856	73.975	993	R - General function predic
51.765	51.61	44.878	84.429	79.268	38.427	36.339	993	R - General function predic
26.491	28.336	33.762	55.942	57.136	23.338	19.074	993	R - General function predic
12.723	26.567	9.025	37.353	11.873	18.58	19.704	993	R - General function predic
188.771	65.115	74.182	111.456	138.847	64.894	65.707	993	R - General function predic
77.637	65.355	48.736	87.189	121.506	55.246	55.39	993	R - General function predic
31.695	17.514	4.892	25.834	21.43	14.787	18.803	993	R - General function predic
26.042	22.58	14.102	29.966	67.736	14.766	11.934	993	R - General fı map00561 Gl
11.993	18.716	15.315	45.33	38.403	8.516	7.429	993	R - General function predic
12.85	29.01	22.032	30.063	38.965	28.429	25.962	993	R - General function predic
13.604	15.824	28.952	35.082	27.797	25.578	23.609	993	R - General function predic
69.172	89.562	34.21	153.566	168.868	86.4	51.851	993	R - General function predic
33.674	28.316	16.323	38.991	47.766	15.632	17.186	993	R - General fı map00760 Ni
91.413	74.412	44.79	70.395	123.138	41.72	56.326	993	R - General function predic
51.678	34.785	52.743	48.061	62.475	39.769	41.235	993	R - General fı map00500 St
14.047	32.519	41.494	37.25	32.837	26.444	21.925	993	R - General function predic
131.305	146.09	86.329	187.764	247.951	66.909	69.978	993	R - General function predic
22.397	36.379	34.68	52.353	78.775	37.758	36.513	993	R - General function predic
93.652	66.971	37.4	87.727	88.815	94.135	58.015	993	R - General function predic
33.459	36.997	20.135	48.151	46.8	15.571	16.802	993	R - General function predic
9.077	5.994	9.223	21.319	21.663	6.505	4.273	993	R - General function predic
4.056	14.882	12.097	22.92	28.658	12.659	11.259	993	R - General fı map00630 Gl
186.675	169.441	191.832	235.228	382.028	154.935	183.633	993	R - General function predic
125.753	125.448	62.12	114.465	121.436	63.254	44.083	993	R - General function predic

3049.262	3078.881	1537.464	5705.421	5625.243	2305.509	1857.762	993	R - General function predic
65.522	79.875	69.336	90.386	102.978	41.873	58.413	993	R - General function predic
34.843	28.867	34.991	34.889	34.189	25.584	23.466	993	R - General function predic
69.244	92.205	270.592	62.272	112.5	313.575	237.126	993	R - General function predic
2.941	4.144	5.79	16.192	9.352	2.202	2.19	993	R - General function predic
31.99	36.087	14.756	49.884	40.241	12.07	14.829	993	R - General fı map00520 Ar
22.631	32.514	12.445	30.709	48.134	20.422	13.745	993	R - General function predic
104.219	226.343	130.212	166.493	404.595	123.672	97.195	993	R - General function predic
38.108	83.833	53.429	67.891	85.732	41.169	31.282	993	R - General function predic
27.313	92.848	42.287	79.761	67.634	30.199	23.877	993	R - General function predic
187.321	389.479	72.608	299.761	295.484	183.393	138.308	993	R - General function predic
82.039	204.532	36.691	161.526	119.948	74.866	56.384	993	R - General function predic
237.924	662.453	96.546	239.261	422.216	247.33	155.947	993	R - General function predic
10.171	19.093	5.125	24.843	28.399	7.347	8.402	993	R - General function predic
60.463	42.028	27.613	33.184	80.859	32.048	27.893	993	R - General function predic
59.631	65.218	58.119	168.807	176.301	20.918	27.168	993	R - General function predic
31.229	61.626	30.067	94.885	111.961	19.727	25.095	993	R - General function predic
42.588	71.987	38.906	63.477	68.821	54.467	41.636	993	R - General function predic
28.803	57.278	61.629	93.876	56.567	46.668	46.696	993	R - General function predic
29.847	29.423	19.495	35.141	37.939	22.344	25.843	993	R - General fı map00310 Ly
30.058	19.751	15.201	35.614	38.951	25.77	25.161	993	R - General fı map00310 Ly
73.033	78.857	51.589	88.895	175.165	38.234	53.338	993	R - General function predic
41.593	62.193	23.082	51.763	85.925	33.325	24.39	993	R - General function predic
19.913	19.282	20.974	31.286	51.63	14.308	20.074	993	R - General function predic
20.608	41.598	19.043	59.198	57.489	25.372	29.4	993	R - General function predic
43.946	40.285	48.212	50.725	55.642	29.071	28.179	993	R - General function predic
58.65	91.106	69.958	103.37	89.873	39.564	46.08	993	R - General function predic
195.355	260.618	215.892	255.927	310.975	159.585	162.816	993	R - General function predic
9.861	21.857	9.257	23.88	16.762	26.138	11.825	993	R - General function predic

10.037	9.195	3.381	15.24	11.177	5.805	3.936	993	R - General function predic
608.039	977.178	1063.736	621.431	1273.721	812.54	635.806	993	R - General function predic
264.417	183.571	69.665	183.241	461.722	182.292	87.804	993	R - General fı map00620 Py
78.9	64.37	37.376	65.802	148.987	78.81	44.177	993	R - General function predic
23.009	30.611	13.303	33.277	56.584	11.83	18.512	993	R - General function predic
153.658	123.928	85.246	145.932	198.821	79.495	67.333	993	R - General function predic
21.668	22.686	37.968	44.175	58.13	24.594	29.309	993	R - General function predic
4.956	4.016	2.342	11.731	3.746	2.018	2.289	993	R - General function predic
38.799	34.229	19.816	46.395	80.04	21.985	22.661	993	R - General function predic
90.86	105.486	93.26	96.647	113.943	98.277	133.517	993	R - General function predic
14.771	30.171	16.015	31.433	38.945	22.653	17.718	993	R - General function predic
82.852	178.015	74.421	129.261	163.195	84.33	77.837	993	R - General function predic
132.04	207.941	89.764	164.569	263.103	95.267	84.794	993	R - General function predic
39.039	138.902	1235.75	290.775	108.142	70.871	55.273	993	R - General function predic
5.199	7.272	7.294	25.195	18.774	6.083	5.572	993	R - General function predic
21.066	20.14	12.577	49.678	37.133	12.406	15.167	993	R - General function predic
43.122	72.11	32.859	72.676	73.629	24.281	31.716	993	R - General function predic
7.81	3.687	6.241	19.666	16.989	4.69	4.763	993	R - General function predic
6.455	2.894	4.782	22.372	20.903	3.593	3.917	993	R - General function predic
5.729	7.312	8.68	31.966	24.003	5.093	4.79	993	R - General function predic
151.223	96.462	102.812	141.548	100.688	62.267	73.458	993	R - General function predic
11.419	11.701	15.876	21.956	24.628	19.75	17.239	993	R - General function predic
99.235	121.317	27.618	184.988	144.14	30.305	28.58	993	R - General function predic
36.599	18.454	15.937	32.216	40.225	41.93	18.459	993	R - General function predic
27.18	33.166	35.415	58.272	85.17	33.55	26.232	993	R - General function predic
34.825	32.965	20.627	68.848	61.459	13.814	14.783	993	R - General function predic
56.538	52.62	79.403	71.91	86.734	43.013	36.853	993	R - General function predic
17.531	18.16	26.002	23.479	27.304	13.264	18.211	993	R - General function predic
40.731	47.391	28.194	41.447	42.651	20.933	25.136	993	R - General function predic

26.536	35.255	47.884	40.468	68.725	37.176	35.242	993	R - General function predic
7.075	20.275	6.954	31.521	23.733	6.042	5.254	993	R - General function predic
33.253	26.357	15.203	29.957	112.773	17.752	13.984	993	R - General function predic
37.346	39.403	33.448	102.197	86.392	24.215	17.763	993	R - General function predic
15.751	33.119	32.942	31.428	34.542	30.062	19.499	993	R - General function predic
93.112	108.972	212.982	116.071	175.357	136.198	156.599	993	R - General function predic
46.36	65.772	66.648	114.267	105.469	43.543	58.914	993	R - General function predic
240.162	230.26	137.765	195.113	336.905	146.344	143.977	993	R - General function predic
59.679	93.083	51.871	151.775	136.073	34.874	31.697	993	R - General function predic
15.944	37.853	20.611	43.256	51.977	24.655	15.152	993	R - General function predic
79.742	70.055	107.165	70.794	111.589	75.101	97.089	993	R - General function predic
134.534	97.388	84.396	58.098	164.544	62.684	68.14	993	R - General function predic
45.812	50.912	38.844	53.494	62.781	27.477	29.592	993	R - General function predic
82.625	113.161	124.439	78.864	133.399	122.314	100.945	993	R - General fı map01110 Bi
11.507	10.065	11.548	19.088	18.044	10.214	6.131	993	R - General function predic
16.006	20.933	12.092	31.951	36.471	11.386	12.255	993	R - General function predic
8.938	9.404	10.459	21.475	13.983	11.029	10.036	993	R - General function predic
41.852	29.886	30.235	56.619	84.102	22.503	21.347	993	R - General function predic
57.546	71.772	36.751	82.488	182.151	17.523	30.692	993	R - General function predic
103.325	67.183	24.348	70.658	181.042	34.219	41.34	993	R - General function predic
190.254	182.68	136.508	145.351	224.977	124.53	139.021	993	R - General function predic
58.43	48.196	33.031	107.361	129.926	22.543	24.256	993	R - General function predic
143.527	162.393	106.115	130.423	348.588	97.609	112.821	993	R - General function predic
33.252	71.396	53.701	84.39	118.11	39.758	49.418	993	R - General function predic
537.983	661.328	544.37	1099.282	903.7	312.394	418.485	993	R - General function predic
145.356	142.583	22.552	141.422	83.79	100.189	112.82	993	R - General fı map00910 Ni
28.312	28.634	24.469	39.04	52.736	15.415	22.148	993	R - General function predic
19.373	20.451	25.848	25.564	28.925	17.536	23.615	993	R - General function predic
215.7	240.608	155.979	104.515	175.577	628.491	243.892	993	R - General function predic

233.171	230.804	192.587	126.508	122.717	678.229	311.974	993	R - General function predic
49.601	65.161	40.317	255.272	232.358	24.331	34.393	993	R - General function predic
107.049	124.191	207.987	146.171	179.045	157.814	164.43	993	R - General function predic
36.322	47.546	37.561	57.59	57.419	38.234	37.742	993	R - General function predic
11.122	10.173	7.191	32.563	27.147	5.251	7.18	993	R - General function predic
227.931	210.783	310.484	274.829	350.147	244.015	227.593	993	R - General function predic
150.647	216.263	148.776	248.198	424.291	130.373	159.3	993	R - General function predic
16.43	15.515	9.874	32.682	22.002	10.142	9.241	993	R - General function predic
49.795	44.84	93.015	43.578	55.754	60.527	78.999	993	R - General function predic
9.087	11.723	22.341	17.945	19.376	31.324	26.425	993	R - General function predic
66.458	36.482	49.149	62.492	127.13	26.868	27.383	993	R - General function predic
118.085	74.467	44.819	85.224	163.954	52.529	49.289	993	R - General function predic
69.399	72.24	42.275	88.964	183.708	41.52	42.613	993	R - General function predic
24.491	20.865	32.261	31.63	40.442	21.254	16.777	993	R - General function predic
35.145	49.735	50.402	53.464	66.78	35.647	38.183	993	R - General function predic
32.175	9.731	71.852	16.727	147.607	8.235	11.241	993	R - General fı map00061 Fa
10.586	14.419	12.854	18.192	14.047	17.01	14.186	993	R - General function predic
44.976	59.956	57.65	55.832	101.511	42.208	52.239	993	R - General function predic
50.095	53.322	28.329	61.487	78.909	27.05	38.25	993	R - General fı map02010 AE
49.09	24.854	36.153	31.837	56.438	25.292	24.804	993	R - General function predic
189.02	183.564	61.535	163.468	361.95	220.546	122.02	993	R - General function predic
375.809	146.605	103.386	146.895	369.923	94.421	91.242	993	R - General function predic
54.73	44.822	61.751	61.103	84.258	26.332	31.52	993	R - General function predic
97.875	166.456	102.299	245.327	277.09	82.567	106.796	993	R - General function predic
111.325	125.15	72.889	159.712	283.503	47.428	54.911	993	R - General fı map04112 Ce
23.481	20.14	17.319	29.617	34.41	12.34	16.58	993	R - General function predic
11.11	21.938	36.215	21.97	23.058	26.497	40.83	993	R - General function predic
21.785	25.433	30.944	37.547	43.65	21.671	21.524	993	R - General function predic
48.945	49.244	43.953	84.06	124.142	32.411	37.279	993	R - General fı map03013 RN

222.211	162.879	166.418	169.29	392.216	152.108	150.831	993	R - General function predic
63.522	62.311	94.202	95.326	175.378	59.407	65.549	993	R - General function predic
17.821	24.536	13.959	25.583	57.464	15.624	8.107	993	R - General function predic
17.26	22.259	14.885	28.59	25.46	12.567	10.589	993	R - General function predic
45.23	19.982	29.65	27.233	49.37	17.843	20.079	993	R - General function predic
55.562	50.608	50.019	47.169	114.079	45.797	51.658	993	R - General function predic
33.236	43.588	18.072	47.695	58.725	26.814	24.125	993	R - General fı map00550 Pe
10.405	14.438	12.554	46.032	44.722	12.783	9.183	993	R - General function predic
71.562	60.341	47.757	78.558	137.131	41.241	44.399	993	R - General function predic
50.392	72.177	48.842	90.817	137.694	34.459	33.91	993	R - General function predic
38.942	66.18	67.89	77.988	100.435	31.96	37.469	993	R - General function predic
22.778	45.825	27.389	119.565	83.864	13.478	15.124	993	R - General function predic
617.635	672.057	306.97	688.759	989.422	277.674	346.352	993	R - General function predic
13.524	7.026	13.837	29.73	38.758	11.408	12.734	993	R - General function predic
18.341	41.5	33.525	63.979	57.291	25.874	20.796	993	R - General fı map02010 AE
10.658	12.634	9.979	22.291	24.509	6.354	9.406	993	R - General fı map01110 Bi
81.748	81.37	86.887	95.197	79.704	42.211	39.574	993	R - General function predic
58.198	72.392	65.138	56.344	80.919	45.307	34.335	993	R - General function predic
64.055	60.476	46.913	50.525	122.426	41.306	33.343	993	R - General function predic
92.254	45.957	70.948	65.947	205.229	33.508	36.302	993	R - General function predic
38.206	109.406	133.471	80.155	139.778	120.075	82.107	993	R - General function predic
62.681	76.468	40.289	79.105	153.112	35.392	35.166	993	R - General function predic
32.99	25.724	23.77	31.255	39.189	21.677	17.053	993	R - General fı map01120 M
24.357	37.438	16.47	41.793	28.255	11.979	15.034	993	R - General function predic
112.861	182.275	26.771	78.236	93.402	110.784	87.15	993	R - General fı map01110 Bi
23.946	17.714	43.909	35.081	59.466	29.114	34.516	993	R - General function predic
41.408	43.143	41.051	47.023	44.103	26.906	27.103	993	R - General function predic
64.378	49.567	56.736	61.26	90.971	32.226	31.549	993	R - General fı map00330 Ar
52.601	86.309	38.223	85.684	118.198	39.877	36.692	993	R - General fı map01120 M

15.908	19.14	18.761	30.65	36.831	15.247	18.146	993	R - General function predic
25.899	21.664	25.115	32.486	47.061	18.689	23.158	993	R - General function predic
131.299	83.143	128.986	70.22	144.294	98.537	109.612	993	R - General function predic
49.69	33.92	58.426	40.041	41.463	35.662	33.868	993	R - General fı map01064 Bi
100.962	74.03	93.078	108.357	141.848	62.525	61.682	993	R - General function predic
37.741	28.664	40.892	41.688	77.322	39.439	49.017	993	R - General function predic
15.515	17.135	9.108	32.221	18.879	7.545	7.645	993	R - General function predic
35.296	37.898	44.955	85.442	104.047	31.587	37.561	993	R - General function predic
19.832	15.396	16.13	28.23	28.237	11.305	12.067	993	R - General function predic
16.359	19.019	21.309	24.629	15.559	15.073	16.243	993	R - General function predic
33.79	22.232	22.887	29.586	17.591	26.108	16.795	993	R - General function predic
3.867	9.86	3.655	20.681	6.608	2.9	4.286	993	R - General function predic
5.841	12.545	3.984	18.95	5.428	2.359	2.543	993	R - General function predic
7.45	21.702	1.361	16.466	3.312	2.468	3.103	993	R - General fı map01120 M
75.986	60.392	40.847	74.978	114.512	33.552	33.161	993	R - General function predic
28.871	45.279	28.261	77.008	85.326	21.249	23.772	993	R - General function predic
57.86	60.73	69.021	53.871	119.828	53.743	47.139	993	R - General function predic
41.808	39.178	46.716	44.801	35.784	25.117	18.537	993	R - General function predic
98.42	111.826	65.538	82.18	137.928	76.553	72.184	993	R - General function predic
352.553	392.486	411.44	6516.705	3538.8	360.262	338.181	993	R - General function predic
23.067	30.531	22.026	55.702	68.209	21.254	18.097	993	R - General function predic
14.432	16.23	16.216	32.196	31.886	13.466	11.01	993	R - General function predic
15.59	43.328	12.253	41.667	48.736	20.327	12.461	993	R - General function predic
42.275	46.316	28.364	64.982	72.136	26.029	21.912	993	R - General function predic
29.047	32.661	25.445	53.471	81.093	20.109	20.683	993	R - General function predic
408.654	456.455	332.926	1040.217	328.367	433.481	319.522	993	R - General fı map03018 RN
136.98	96.031	133.04	87.296	130.159	93.673	72.154	993	R - General function predic
19.63	15.63	13.476	17.912	29.988	15.521	14.223	993	R - General function predic
56.279	85.016	75.257	76.571	88.249	60.553	55.039	993	R - General function predic

98.04	103.686	69.403	89.561	120.109	52.183	67.735	993	R - General function predic
169.758	116.965	143.41	77.849	192.854	117.545	107.057	993	R - General function predic
18.4	14.776	23.106	27.262	32.209	15.144	20.186	993	R - General function predic
24.449	44.124	21.133	41.353	46.821	21.451	18.455	993	R - General fı map00620 Py
79.901	93.729	33.233	52.779	40.105	98.696	85.505	993	R - General function predic
140.983	183.478	71.779	159.995	281.164	110.496	87.074	993	R - General function predic
32.813	28.514	13.286	39.038	88.054	12.177	14.219	993	R - General function predic
50.432	42.827	60.158	53.375	97.447	38.573	38.087	993	R - General fı map01064 Bi
16.679	13.058	17.136	25.125	33.102	11.742	11.413	993	R - General function predic
16.716	19.796	8.909	24.939	28.848	11.362	9.432	993	R - General fı map00630 Gl
52.516	52.628	18.713	70.446	151.543	30.158	32.325	993	R - General fı map00760 Ni
65.945	81.25	37.147	59.375	129.635	39.061	31.18	993	R - General function predic
209.364	143.789	179.177	126.776	450.774	108.326	115.138	993	R - General function predic
48.637	88.948	47.701	84.065	98.319	50.727	52.764	993	R - General fı map00630 Gl
15.603	24.772	38.536	24.08	21.438	63.188	62.949	993	R - General function predic
24.383	17.924	37.699	35.895	24.867	22.173	22.035	993	R - General fı map00330 Ar
88.125	114.253	90.613	115.479	128.055	69.488	61.288	993	R - General function predic
19.742	28.992	25.424	68.049	67.699	15.873	13.151	993	R - General function predic
8.769	6.178	8.074	21.185	17.812	6.565	6.167	993	R - General function predic
4.635	1.583	1.884	18.749	13.973	3.986	7.773	993	R - General function predic
8.299	6.236	12.648	23.553	14.855	14.019	8.424	993	R - General function predic
5.972	5.741	3.371	17.459	10.001	2.31	3.026	993	R - General function predic
0.971	3.076	2.96	17.194	3.493	1.383	2.104	993	R - General function predic
26.194	33.419	33.333	53.108	57.996	26.405	34.679	993	R - General function predic
7.306	7.576	5.008	15.591	13.433	6.65	5.011	993	R - General function predic
76.156	117.76	99.27	89.721	128.362	112.797	121.519	993	R - General function predic
4.254	7.099	10.743	11.299	8.415	3.471	6.758	993	R - General function predic
14.637	48.484	47.612	79.059	53.552	35.859	29.893	993	R - General function predic
11.7	11.575	9.428	13.226	12.827	8.735	7.21	993	R - General function predic

13.597	19.632	12.349	30.038	23.58	12.338	10.909	993	R - General function predic
20.11	33.928	56.755	53.273	31.287	28.823	24.741	993	R - General function predic
36.123	68.688	101.781	53.936	60.516	39.459	39.934	993	R - General function predic
2.973	5.928	4.082	13.21	6.586	3.517	2.34	993	R - General function predic
22.592	29.33	18.553	38.483	30.244	11.269	8.546	993	R - General function predic
14.524	19.843	22.954	34.427	35.573	21.114	26.064	993	R - General function predic
20.713	27.44	26.907	53.328	25.227	31.671	25.071	993	R - General function predic
27.28	37.752	15.575	31.121	20.707	67.891	29.787	993	R - General function predic
11.915	38.633	24.995	37.533	22.701	46.072	21.778	993	R - General function predic
19.59	15.748	24.708	28.095	29.114	22.407	18.781	993	R - General function predic
97.462	102.855	61.647	81.286	118.904	91.181	78.894	993	R - General function predic
58.394	68.121	39.857	76.192	68.974	44.698	32.112	993	R - General function predic
9.015	10.378	14.134	20.148	18.714	15.381	11.05	993	R - General fı map01120 M
30.07	32.07	45.516	42.839	61.28	42.407	44.142	993	R - General function predic
74.897	105.537	63.816	81.67	152.928	50.314	46.43	993	R - General function predic
9.851	8.196	6.245	17.797	9.756	9.309	7.468	993	R - General fı map00061 Fa
77.756	72.969	74.568	100.339	192.631	109.476	104.774	993	R - General function predic
24.145	28.132	24.781	44.857	32.733	28.232	27.26	993	R - General function predic
16.683	29.418	33.815	120.581	32.071	27.7	20.181	993	R - General function predic
7.87	8.231	10.552	71.461	9.975	9.494	6.445	993	R - General function predic
0.513	0.175	0.868	8.695	0	0	0.452	993	R - General function predic
44.816	58.892	43.215	78.983	56.292	53.528	45.322	993	R - General function predic
19.419	31.437	34.652	34.494	19.139	26.764	18.147	993	R - General function predic
16.683	29.418	33.815	120.581	32.071	27.7	20.181	993	R - General function predic
7.87	8.231	10.552	71.461	9.975	9.494	6.445	993	R - General function predic
0.513	0.175	0.868	8.695	0	0	0.452	993	R - General function predic
4.657	9.294	8.219	19.79	13.682	5.308	6.166	993	R - General function predic
58.524	53.225	63.968	43.689	50.549	59.46	50.011	609	S - Function unknown
19.835	12.161	6.661	19.735	3.753	7.035	5.823	1050	S - Function ı §

5.888	10.86	9.173	21.895	12.758	4.159	6.756	993	S - Function unknown
20.384	23.76	21.487	46.628	27.364	23.712	22.938	993	S - Function unknown
33.951	40.588	36.795	51.314	39.447	40.319	37.457	993	S - Function unknown
36.726	44.818	40.877	53.911	57.795	47.375	43.76	993	S - Function unknown
28.907	22.993	25.027	27.187	32.463	25.002	26.133	993	S - Function unknown
19.397	19.778	21.746	28.613	37.13	20.073	21.631	993	S - Function unknown
4.096	7.06	1.703	20.955	6.578	2.059	3.944	993	S - Function unknown
66.136	106.111	36.682	209.097	152.821	45.514	33.458	993	S - Function unknown
136.903	214.209	186.51	133.041	236.182	136.89	161.702	993	S - Function unknown
195.217	266.885	202.301	175.318	387.07	264.199	169.719	993	S - Function unknown
17.298	31.66	23.102	30.661	36.588	20.549	22.036	993	S - Function unknown
16.79	8.258	1428.886	27.44	13.049	6.807	6.224	993	S - Function unknown
31.313	42.571	43.257	60.346	104.119	34.103	31.728	993	S - Function unknown
34.591	28.777	36.738	26.42	47.007	23.599	27.764	993	S - Function unknown
303.653	321.91	328.358	313.637	439.777	266.288	212.959	993	S - Function unknown
14.856	16.246	31.315	24.628	29.139	17.059	19.668	993	S - Function unknown
38.755	35.639	22.523	33.587	60.381	22.327	26.615	993	S - Function unknown
37.25	28.249	32.109	25.53	36.295	29.242	34.361	993	S - Function unknown
153.56	202.909	88.538	185.46	200.975	77.354	92.856	993	S - Function unknown
8.299	12.067	14.585	20.962	17.75	14.88	14.402	993	S - Function unknown
26.508	50.584	15.159	42.716	48.223	29.25	18.072	993	S - Function unknown
79.019	103.824	72.593	118.552	150.566	55.811	71.99	993	S - Function unknown
44.781	56.119	24.901	140.055	89.788	24.255	11.617	993	S - Function unknown
106.436	73.869	121.712	59.134	47.937	82.245	82.805	993	S - Function unknown
57.942	70.438	26.577	67.864	72.206	35.171	35.838	993	S - Function unknown
207.057	245.98	371.858	252.827	357.022	258.346	308.369	993	S - Function unknown
386.551	219.474	206.264	215.847	922.405	227.051	208.758	993	S - Function unknown
14.793	18.898	15.615	25.982	26.332	15.825	16.176	993	S - Function unknown
19.577	21.364	11.13	29.117	43.243	12.503	13.473	993	S - Function unknown

66.368	65.122	27.187	66.154	49.753	27.575	27.968	993	S - Function unknown
141.354	163.5	71.537	109.904	87.388	98.545	79.037	993	S - Function unknown
1308.277	325.244	509.532	136.104	455.31	716.95	470.633	993	S - Function unknown
13.832	14.174	13.117	20.755	17.265	10.408	7.325	993	S - Function unknown
43.499	36.216	37.945	41.028	61.468	29.137	28.794	993	S - Function unknown
211.252	193.783	211.335	175.026	375.871	199.044	183.403	993	S - Function unknown
141.052	134.86	273.993	144.117	347.961	134.37	268.238	993	S - Function unknown
93.785	182.388	143.638	166.169	333.607	100.507	156.89	993	S - Function unknown
245.535	458.087	431.48	237.606	320.644	299.904	445.654	993	S - Function unknown
56.915	111.958	124.043	98.119	81.467	88.307	117.318	993	S - Function unknown
79.282	71.435	70.83	75.913	112.514	48.175	101.341	993	S - Function unknown
23.326	55.922	64.838	54.698	60.947	45.417	70.502	993	S - Function unknown
53.689	46.693	54.13	59.68	102.712	31.076	66.34	993	S - Function unknown
37.506	30.255	40.377	46.387	91.564	20.588	39.301	993	S - Function unknown
33.781	48.923	64.161	68.316	116.335	26.912	70.537	993	S - Function unknown
14.788	19.049	9.015	27.392	48.36	8.856	10.488	993	S - Function unknown
93.175	81.389	69.009	51.411	72.104	83.746	69.722	993	S - Function unknown
69.229	79.621	43.531	51.64	103.983	72.039	62.17	993	S - Function unknown
26.767	22.756	32.086	37.35	53.932	25.208	29.065	993	S - Function unknown
215.197	147.854	325.156	212.871	200.086	153.741	248.563	993	S - Function unknown
49.425	44.615	35.235	47.376	96.579	35.044	38.12	993	S - Function unknown
178.32	163.656	178.076	146.994	238.344	119.711	129.119	993	S - Function unknown
60.4	73.073	70.268	111.446	94.254	77.742	84.846	993	S - Function unknown
9.173	24.282	6.601	47.127	19.983	4.578	7.084	993	S - Function unknown
5.187	10.63	8.959	33.755	8.429	5.735	6.524	993	S - Function unknown
24.653	28.117	24.285	28.111	47.407	19.159	22.704	993	S - Function unknown
246.851	221.909	265.9	146.611	265.626	188.555	244.664	993	S - Function unknown
42.603	46.036	57.845	64.052	49.802	40.681	38.968	993	S - Function unknown
27.248	31.082	32.385	39.746	46.858	31.738	25.864	993	S - Function unknown

319.014	603.319	211.721	565.051	1011.514	220.859	218.36	993	S - Function unknown
29.047	41.999	112.256	42.551	41.298	98.517	95.549	993	S - Function unknown
4.953	8.504	5.576	14.671	11.349	5.55	5.139	993	S - Function unknown
30.31	23.51	25.449	34.296	41.789	19.588	20.76	993	S - Function unknown
47.7	69.451	92.154	60.195	70.019	60.219	62.207	993	S - Function unknown
465.949	860.324	353.949	422.49	876.583	469.649	423.536	993	S - Function unknown
81.762	154.115	70.612	93.699	166.008	122.122	78.05	993	S - Function unknown
179.416	115.467	110.418	76.7	190.899	95.75	96.802	993	S - Function unknown
102.772	67.609	94.3	54.55	124.897	37.469	45.78	993	S - Function unknown
68.102	71.661	80.354	75.364	111.238	46.555	48.473	993	S - Function unknown
29.64	44.571	48.861	65.77	85.442	36.868	34.629	993	S - Function unknown
166.257	148.04	110.09	175.229	327.827	134.347	137.883	993	S - Function unknown
74.137	92.657	57.667	81.471	113.177	68.085	78.359	993	S - Function unknown
69.246	69.761	77.734	124.996	96.751	47.076	59.915	993	S - Function unknown
51.699	65.537	34.386	56.851	114.853	42.724	37.397	993	S - Function unknown
11.355	21.106	9.39	23.774	21.642	11.192	10.488	993	S - Function unknown
1751.685	3215.071	1149.096	1909.227	4488.709	2547.998	1398.79	993	S - Function unknown
8.905	14.122	20.034	15.354	25.466	15.238	11.509	993	S - Function unknown
26.616	26.527	17.411	64.106	56.588	15.118	16.331	993	S - Function unknown
115.794	106.399	69.842	83.347	163.255	66.001	72.909	993	S - Function unknown
5.569	23.248	4.505	29.939	27.396	6.81	9.329	993	S - Function unknown
113.703	169.74	163.649	122.537	168.806	137.918	104.626	993	S - Function unknown
51.417	53.884	45.117	38.391	90.584	35.531	39.56	993	S - Function unknown
77.35	83.609	120.371	100.607	120.371	79.54	109.533	993	S - Function unknown
41.496	33.63	16.481	60.543	41.579	43.1	27.968	993	S - Function unknown
42.932	53.151	200.102	55.446	104.419	117.202	150.864	993	S - Function unknown
52.441	38.053	31.28	34.213	53.089	33.094	17.846	993	S - Function unknown
10.501	15.543	6.801	21.575	19.091	8.544	8.537	993	S - Function unknown
41.423	75.121	70.268	69.39	82.503	39.576	34.6	993	S - Function unknown

66.211	69.095	28.747	63.263	76.029	29.809	25.944	993	S - Function unknown
55.178	62.632	30.31	64.095	131.22	27.59	32.962	993	S - Function unknown
60.969	38.756	41.348	41.158	77.175	36.521	36.853	993	S - Function unknown
88.433	160.068	60.337	129.179	180.602	67.504	68.365	993	S - Function unknown
228.845	537.978	109.276	258.327	402.416	324.601	192.797	993	S - Function unknown
438.001	1150.643	167.756	342.603	877.086	438.316	272.898	993	S - Function ı map01120 M
254.191	304.718	451.169	259.86	340.634	312.449	328.713	993	S - Function unknown
16.847	31.313	25.027	44.571	63.867	34.686	25.534	993	S - Function unknown
45.184	61.333	54.255	108.821	82.092	37.577	32.629	993	S - Function unknown
166.6	130.581	193.641	184.858	276.464	180.958	185.826	993	S - Function unknown
221.982	219.633	85.431	217.531	591.925	149.314	152.607	993	S - Function unknown
162.195	124.605	159.936	148.661	246.913	74.058	96.616	993	S - Function unknown
61.502	85.137	33.47	69.714	56.868	72.217	36.522	993	S - Function unknown
191.981	217.421	228.674	159.259	273.73	184.156	193.805	993	S - Function unknown
49.608	52.895	78.582	63.872	124.25	57.639	54.44	993	S - Function unknown
151.63	130.478	72.204	106.194	289.386	67.162	83.683	993	S - Function unknown
140.778	69.549	57.418	99.63	138.784	114.475	133.642	993	S - Function unknown
73.323	100.564	99.426	50.228	186.898	94.583	99.312	993	S - Function unknown
34.032	27.475	23.837	55.758	54.525	13.382	14.563	993	S - Function unknown
13.883	18.165	18.445	17.766	19.014	8.068	7.352	993	S - Function unknown
61.737	121.711	105.826	109.668	166.419	76.847	90.681	993	S - Function unknown
83.58	88.099	80.863	166.347	207.399	45.549	47.805	993	S - Function ı map01062 Bi
44.723	53.624	56.214	39.254	58.474	59.581	43.491	993	S - Function unknown
13.395	19.586	19.114	26.953	66.779	13.59	17.136	993	S - Function unknown
196.527	238.893	328.149	262.699	313.719	219.881	229.589	993	S - Function unknown
33.943	49.664	43.274	57.33	97.542	41.95	41.048	993	S - Function unknown
46.608	70.847	20.984	77.711	74.288	29.613	30.56	993	S - Function unknown
16.658	26.896	38.686	31.097	52.618	33.793	32.34	993	S - Function unknown
42.094	43.627	31.772	39.081	69.919	50.606	34.676	993	S - Function unknown

66.17	100.222	69.497	86.019	102.394	93.242	67.105	993	S - Function ı map00906 Ca
42.524	59.53	80.694	63.894	68.965	48.826	43.479	993	S - Function unknown
22.978	19.769	28.411	28.001	45.028	20.572	23.245	993	S - Function unknown
45.386	71.311	60.46	64.155	118.292	55.386	56.882	993	S - Function unknown
120.227	92.898	92.111	81.58	152.035	70.33	86.05	993	S - Function ı map00564 Gl
20.368	30.491	28.073	73.144	88.849	27.09	28.294	993	S - Function unknown
62.227	56.142	54.226	76.379	128.143	53.636	57.214	993	S - Function unknown
14.524	18.756	14.352	89.755	36.548	12.649	8.692	993	S - Function unknown
5.408	8.074	6.122	22.831	19.213	4.84	7.159	993	S - Function unknown
88.233	39.686	38.657	39.502	63.978	92.857	35.567	993	S - Function unknown
317.035	274.345	328.619	403.756	547.774	148.345	168.748	993	S - Function unknown
53.34	121.261	55.187	136.647	138.231	49.867	48.543	993	S - Function unknown
38.32	26.33	26.902	39.686	38.994	13.588	18.34	993	S - Function unknown
5.179	12.46	9.151	28.866	14.318	3.942	4.472	993	S - Function unknown
13.296	16.769	9.56	26.424	38.733	11.309	17.332	993	S - Function unknown
15.595	16.203	23.705	19.579	17.735	17.661	17.603	993	S - Function unknown
45.926	50.882	61.219	77.21	78.486	50.092	65.478	993	S - Function unknown
27.885	34.329	20.069	45.86	65.673	20.519	19.228	993	S - Function unknown
22.105	21.06	20.603	31.912	43.498	14.308	15.721	993	S - Function unknown
47.886	43.029	39.136	54.07	80.902	29.285	38.595	993	S - Function unknown
65.515	89.665	68.587	88.907	138.482	61.031	42.169	993	S - Function unknown
17.78	17.583	25.522	18.512	23.956	24.478	18.338	993	S - Function unknown
167.196	144.341	281.169	68.239	131.792	398.232	320.616	993	S - Function unknown
7.536	10.109	18.097	20.381	15.876	6.817	13.786	993	S - Function unknown
19.365	29.954	8.526	39.886	12.77	24.64	29.177	993	S - Function unknown
22.742	38.994	9.151	30.629	27.364	15.353	14.905	993	S - Function unknown
10.524	23.726	5.988	25.954	13.682	15.515	8.917	993	S - Function unknown
20.431	8.072	8.003	32.521	51.133	7.258	9.125	993	S - Function unknown
62.476	120.278	96.043	77.496	106.949	130.185	140.313	993	S - Function unknown

63.133	65.604	59.567	87.423	87.285	22.23	33.59	993	S - Function ı map01062 Bi
74.777	64.155	56.433	104.291	187.203	35.986	40.274	993	S - Function unknown
23.727	21.218	33.457	27.722	52.425	22.524	21.131	993	S - Function unknown
433.287	665.78	417.89	694.848	863.389	553.676	530.364	993	S - Function unknown
507.577	339.38	299.081	209.236	449.812	291.918	268.395	993	S - Function unknown
50.779	42.553	25.796	41.691	69.93	21.411	21.079	993	S - Function unknown
28.065	19.843	45.338	36.94	68.41	27.281	36.783	993	S - Function unknown
14.055	13.922	14.28	34.386	30.453	16.835	17.987	993	S - Function unknown
56.993	49.373	69.096	38.26	57.386	81.306	65.611	993	S - Function unknown
72.839	58.019	54.83	53.677	142.931	47.006	50.363	993	S - Function unknown
267.631	68.688	57.512	71.428	315.036	78.919	81.841	993	S - Function unknown
48.335	40.361	52.768	61.399	94.241	25.479	34.764	993	S - Function unknown
858.37	471.335	584.508	427.15	695.937	503.864	402.515	993	S - Function unknown
2.49	5.467	4.577	20.072	8.209	5.79	2.668	993	S - Function unknown
30.617	34.591	22.334	66.07	103.724	18.084	21.826	993	S - Function unknown
54.892	65.506	48.219	49.017	58.175	38.881	42.695	993	S - Function unknown
60.031	71.97	63.414	63.921	94.195	51.812	56.007	993	S - Function unknown
182.143	74.062	118.224	66.215	147.041	73.049	90.483	993	S - Function unknown
134.223	113.275	256.522	153.04	245.692	151.196	171.682	993	S - Function unknown
115.723	123.516	81.909	193.355	398.826	80.291	97.681	993	S - Function unknown
44.954	60.947	33.729	113.702	142.195	23.737	28.613	993	S - Function unknown
162.551	146.445	134.05	151.951	221.807	148.675	178.157	993	S - Function unknown
42.004	26.554	10.409	27.718	26.654	16.713	19.946	993	S - Function unknown
76.722	100.488	83.148	71.991	108.593	70.284	70.223	993	S - Function unknown
247.964	372.277	197.23	219.085	325.164	246.096	225.292	993	S - Function unknown
82.798	163.289	83.021	111.311	114.698	140.823	106.741	993	S - Function unknown
33.296	73.591	33.264	80.369	82.682	44.35	41.96	993	S - Function unknown
79.478	98.54	50.485	135.596	253.961	76.191	71.838	993	S - Function unknown
31.922	62.785	45.806	74.913	107.104	39.867	41.259	993	S - Function unknown

28.356	31.182	49.656	47.602	39.417	40.783	53.715	993	S - Function unknown
33.132	30.075	31.972	30.498	48.101	25.37	23.834	993	S - Function unknown
9.18	13.057	7.935	18.973	23.718	7.701	6.893	993	S - Function unknown
27.058	15.902	35.307	41.924	38.984	11.61	20.193	993	S - Function unknown
74.693	114.496	49.153	97.756	183.062	51.01	56.544	993	S - Function unknown
128.571	123.091	57.026	111.098	171.052	81.571	69.557	993	S - Function unknown
16.045	14.457	10.54	27.816	30.1	9.495	9.431	993	S - Function unknown
204.549	161.104	115.78	130.996	327.219	134.568	102.727	993	S - Function unknown
5.017	5.412	2.817	13.954	11.008	4.136	3.496	993	S - Function unknown
45.274	41.671	50.884	37.247	95.396	33.962	29.438	993	S - Function unknown
30.736	46.032	56.28	74.369	100.706	42.324	41.138	993	S - Function unknown
68.324	78.582	59.708	82.5	123.032	46.166	50.911	993	S - Function unknown
107.068	103.673	33.077	130.044	184.013	25.471	51.831	993	S - Function unknown
67.441	108.155	61.363	117.643	101.802	68.234	75.007	993	S - Function unknown
26.116	36.865	40.343	48.897	57.05	31.552	32.458	993	S - Function unknown
7.56	6.524	2.83	18.691	19.68	2.933	6.848	993	S - Function unknown
560.196	249.174	514.151	464.217	759.74	139.172	292.353	993	S - Function unknown
98.108	106.91	158.705	98.039	183.869	87.119	90.645	993	S - Function unknown
221.205	257.465	424.073	182.47	337.681	226.463	316.37	993	S - Function unknown
16.659	43.772	19.964	50.163	36.821	35.029	19.228	993	S - Function unknown
9.503	7.648	9.983	15.342	14.188	7.767	7.464	993	S - Function unknown
14.16	17.115	7.378	20.253	23.088	6.022	5.768	993	S - Function unknown
22.061	43.705	41.841	44.977	36.37	27.103	27.746	993	S - Function unknown
26.462	32.726	30.285	46.285	45.344	27.605	20.134	993	S - Function unknown
51.406	49.543	33.59	54.42	81.822	26.94	28.083	993	S - Function unknown
352.487	287.422	191.107	267.253	415.495	205.736	196.288	993	S - Function unknown
2.179	4.465	5.903	9.949	7.183	1.338	1.923	993	S - Function unknown
10.319	7.833	15.533	17.953	17.282	5.987	10.12	993	S - Function unknown
33.604	28.598	35.155	33.721	48.692	27.945	30.35	993	S - Function unknown

27.073	43.347	34.384	71.202	96.239	62.622	39.575	993	S - Function unknown
32.7	35.825	11.487	30.468	56.776	12.5	10.362	993	S - Function unknown
14.66	19.408	5.921	46.693	22.389	15.857	8.559	993	S - Function unknown
17.875	14.959	9.838	20.845	22.102	8.372	10.058	993	S - Function unknown
13.555	15.308	10.119	31.268	25.996	6.627	4.761	993	S - Function unknown
99.59	120.849	178.851	168.63	186.404	125.166	131.847	993	S - Function unknown
22.118	28.126	16.516	55.286	44.812	10.804	16.934	993	S - Function unknown
38.041	476.84	125.541	261.169	85.217	58.283	45.092	993	S - Function unknown
75.97	129.171	40.864	95.845	141.819	74.801	51.52	993	S - Function unknown
238.55	148.08	123.953	67.511	188.811	206.75	161.513	993	S - Function unknown
29.984	22.468	20.183	31.36	37.074	18.13	19.352	993	S - Function unknown
1.538	1.751	3.125	7.859	1.932	4.408	2.262	993	S - Function unknown
23.741	23.13	25.401	30.186	35.455	19.224	18.573	993	S - Function unknown
103.924	101.2	42.629	104.859	133.627	48.175	42.301	993	S - Function unknown
17.847	19.423	26.886	15.417	19.827	16.671	17.109	993	S - Function unknown
211.174	154.123	114.635	178.482	442.248	118.571	131.798	993	S - Function ı map00860 Pc
53.317	53.263	34.172	70.97	84.252	44.548	39.341	993	S - Function unknown
7.591	9.723	5.878	15.007	13.408	6.853	5.754	993	S - Function unknown
95.606	77.861	142.872	59.675	111.449	137.718	111.037	993	S - Function unknown
26.236	23.364	22.531	44.014	32.66	16.979	17.78	993	S - Function unknown
42.911	42.618	55.001	66.972	90.177	52.108	50.691	993	S - Function unknown
55.89	46.84	53.557	44.986	58.179	41.4	46.868	993	S - Function unknown
40.666	58.298	41.928	82.532	114.645	36.085	35.936	993	S - Function unknown
69.168	56.898	80.874	72.399	98.193	45.395	51.84	993	S - Function unknown
32.032	22.753	63.315	33.199	53.288	34.411	28.239	993	S - Function unknown
19.598	37.744	37.957	53.94	52.173	26.844	26.062	993	S - Function unknown
97.588	117.754	64.203	98.991	202.709	64.562	67.803	993	S - Function unknown
108.531	90.512	84.647	73.907	166.049	103.041	89.846	993	S - Function unknown
76.521	94.67	49.014	65.992	150.08	90.903	61.495	993	S - Function unknown

34.551	45.222	26.406	47.276	66.106	32.586	25.367	993	S - Function unknown
92.293	155.563	66.598	170.875	296.46	76.858	77.491	993	S - Function unknown
106.506	278.797	201.013	376.797	431.894	113.895	123.057	993	S - Function unknown
178.542	140.767	125.706	140.311	208.007	115.406	108.282	993	S - Function unknown
135.791	95.503	98.858	101.669	157.636	95.397	75.967	993	S - Function unknown
18.607	39.444	12.123	67.763	56.2	12.891	14.48	993	S - Function unknown
85.717	137.592	33.689	141.216	134.677	37.015	45.566	993	S - Function unknown
9.839	14.082	15.708	47.987	26.702	6.907	15.92	993	S - Function unknown
8.299	15.308	15.178	56.851	28.732	4.206	8.79	993	S - Function unknown
15.898	21.261	8.686	24.414	19.64	9.075	7.082	993	S - Function unknown
68.406	45.838	26.856	60.831	115.544	17.129	22.689	993	S - Function unknown
50.196	55.613	28.736	54.358	84.972	17.843	19.228	993	S - Function unknown
111.75	92.558	68.144	74.322	148.093	73	80.105	993	S - Function unknown
163.237	126.815	118.05	80.072	198.581	88.584	104.534	993	S - Function unknown
231.659	243.377	78.631	234.637	353.459	112.635	135.749	993	S - Function unknown
104.687	165.204	120.823	179.902	251.785	86.039	77.685	993	S - Function unknown
1688.114	1068.243	658.027	676.76	2992.771	849.439	1029.129	993	S - Function unknown
313.368	272.785	109.544	344.451	675.084	136.495	173.728	993	S - Function unknown
8.147	16.576	21.415	31.661	27.114	11.424	13.209	993	S - Function unknown
2.859	5.449	3.37	13.038	5.898	2.002	2.271	993	S - Function unknown
13.555	9.922	15.303	28.847	44.694	11.3	13.103	993	S - Function unknown
23.182	19.175	29.229	35.805	59.201	27.793	29.951	993	S - Function unknown
3.925	2.816	5.185	20.359	2.773	6.148	5.197	993	S - Function unknown
9.682	8.616	6.213	28.675	21.603	11.973	6.747	993	S - Function unknown
22.791	20.148	16.345	40.233	32.205	16.47	23.665	993	S - Function unknown
66.045	48.775	25.096	66.084	37.301	31.062	39.719	993	S - Function unknown
4.539	0.698	5.534	9.549	2.245	10.036	14.721	993	S - Function unknown
169.275	206.871	296.483	221.088	255.397	197.806	211.578	993	S - Function unknown
9.609	14.486	5.05	13.51	11.081	6.716	7.457	993	S - Function unknown

254.818	299.797	446.95	283.538	372.821	309.861	310.836	993	S - Function unknown
3.32	5.315	4.638	12.385	9.089	2.485	2.197	993	S - Function unknown
238.761	292.523	419.554	259.787	309.273	275.971	298.628	993	S - Function unknown
208.981	254.796	350.246	259.812	325.333	248.893	253.626	993	S - Function unknown
204.274	248.219	335.932	216.424	275.467	234.98	241.7	993	S - Function unknown
1.988	3.395	1.908	13.835	4.214	1.934	1.901	993	S - Function unknown
13.743	24.864	13.196	24.287	27.032	18.6	17.328	993	S - Function unknown
7.732	10.493	6.582	15.133	12.993	9.435	10.79	993	S - Function unknown
29.394	37.295	22.61	58.547	79.251	20.248	17.163	993	S - Function unknown
14.955	15.914	13.734	24.767	33.324	6.625	7.234	993	S - Function unknown
6.029	15.163	4.455	20.649	12.391	7.575	7.981	993	S - Function unknown
48.412	30.301	28.449	56.851	80.613	32.551	37.763	993	S - Function unknown
24.855	19.945	36.51	19.341	22.85	22.901	26.562	993	S - Function unknown
13.497	24.427	19.729	32.828	29	27.418	23.408	993	S - Function unknown
5.912	11.765	8.619	31.109	23.247	10.5	8.394	993	S - Function unknown
21.707	21.123	18.882	37.901	31.336	16.548	17.987	993	S - Function unknown
106.894	119.059	50.762	82.624	106.172	83.86	62.041	993	S - Function unknown
7.262	9.301	11.067	16.497	13.193	10.514	8.24	993	S - Function unknown
288.776	347.217	487.819	350.84	410.14	332.308	336.672	993	S - Function unknown
38.041	476.689	125.541	260.736	85.009	58.147	45.288	993	S - Function unknown
7.962	10.425	15.43	38.959	18.544	10.053	10.346	993	S - Function unknown
289.115	346.638	487.704	350.73	410.459	332.517	337.121	993	S - Function unknown
56.314	98.249	39.542	77.834	82.778	43.612	43.597	993	S - Function unknown
2872.956	2622.637	9626.337	2982.296	1574.705	5832.504	6065.531	993	S - Function unknown
8.848	10.606	12.042	38.554	16.041	7.845	8.619	993	S - Function unknown
38.278	55.943	40.846	51.414	88.706	41.959	38.977	993	T - Signal tra map02020 Tv
328.998	325.637	71.866	122.779	229.569	221.059	132.502	993	T - Signal transduction mec
20.559	39.279	27.895	37.511	43.482	27.986	20.808	993	T - Signal transduction mec
58.094	57.345	54.693	59.72	73.807	52.791	47.628	993	T - Signal transduction mec

53.128	56.288	45.513	56.552	75.219	42.841	42.643	993	T - Signal transduction mec
66.476	81.716	77.559	100.716	148.508	68.064	61.518	993	T - Signal transduction mec
60.365	104.564	98.872	117.175	144.597	73.579	67.203	993	T - Signal transduction mec
281.146	218.607	171.104	423.009	386.847	85.214	129.321	993	T - Signal transduction mec
186.571	167.199	115.492	195.92	270.019	94.133	110.25	993	T - Signal transduction mec
14.94	21.289	22.281	38.779	32.166	16.956	18.931	993	T - Signal trai map04112 Ce
15.098	19.962	22.62	24.17	26.643	17.469	16.902	993	T - Signal trai map02020 Tv
42.034	75.529	53.183	98.18	111.16	58.826	54.008	993	T - Signal trai map04112 Ce
212.155	251.87	164.374	161.558	305.506	227.323	182.541	993	T - Signal transduction mec
7.357	18.51	15.405	28.223	26.746	9.483	9.557	993	T - Signal transduction mec
72.122	73.045	159.414	85.351	159.659	103.613	118.798	993	T - Signal transduction mec
134.095	157.284	108.651	147.19	187.237	110.905	113.391	993	T - Signal transduction mec
42.4	45.296	32.437	48.553	65.988	28.107	30.734	993	T - Signal trai map04113 M
9.883	8.584	21.675	18.341	24.866	14.437	19.467	993	T - Signal trai map04112 Ce
143.325	81.657	112.42	98.835	311.895	52.383	134.341	993	T - Signal transduction mec
44.451	32.471	28.544	34.886	68.41	20.681	53.702	993	T - Signal trai map02020 Tv
11.744	11.778	15.423	24.269	29.306	12.202	13.149	993	T - Signal trai map04112 Ce
1.975	4.406	5.706	15.072	12.959	7.56	4.996	993	T - Signal transduction mec
6.969	5.534	5.326	15.116	9.511	8.818	10.304	993	T - Signal trai map02020 Tv
28.955	18.65	36.05	40.479	57.412	37.435	48.191	993	T - Signal trai map04112 Ce
16.46	25.135	3.279	48.481	86.424	23.641	7.477	993	T - Signal transduction mec
188.807	172.013	112.56	185.097	463.914	89.939	125.651	993	T - Signal transduction mec
58.253	41.15	55.316	71.763	115.512	45.484	56.948	993	T - Signal transduction mec
47.5	51.84	55.168	58.838	97.063	30.506	41.611	993	T - Signal transduction mec
157.196	268.383	102.426	183.93	362.17	129.771	153.175	993	T - Signal transduction mec
43.526	51.144	34.447	39.514	80.694	35.298	35.836	993	T - Signal transduction mec
28.571	27.872	26.637	36.472	56.075	23.607	26.15	993	T - Signal transduction mec
16.684	11.316	7.439	16.327	19.166	12.276	12.077	993	T - Signal transduction mec
37.761	44.997	35.936	79.759	120.723	55.417	63.338	993	T - Signal transduction mec

25.247	39.715	32.172	61.148	88.177	22.796	24.817	993	T - Signal transduction mec
31.852	29.491	40.707	51.623	82.186	28.24	41.196	993	T - Signal transduction mec
25.194	23.69	25.124	45.27	58.218	22.316	24.049	993	T - Signal transduction mec
5.809	8.806	5.029	11.538	9.472	6.746	6.735	993	T - Signal transduction mec
11.058	14.922	45.574	16.613	12.105	12.198	9.485	993	T - Signal trai map02020 Tv
79.456	72.477	60.746	75.462	201.364	51.367	57.597	993	T - Signal transduction mec
3.765	5.035	15.984	9.54	9.464	6.061	6.873	993	T - Signal transduction mec
4.539	7.131	5.636	19.246	11.402	2.044	2.671	993	T - Signal transduction mec
9.333	13.646	17.105	20.345	20.009	14.52	11.202	993	T - Signal transduction mec
207.291	395.871	97.66	207.248	481.356	194.159	167.456	993	T - Signal transduction mec
58.361	169.85	30.325	108.226	140.836	76.363	51.156	993	T - Signal transduction mec
18.356	48.988	7.993	58.628	68.41	17.657	12.818	993	T - Signal transduction mec
192.395	306.869	179.043	354.707	512.027	149.247	139.948	993	T - Signal transduction mec
162.045	53.418	104.356	57.95	117.337	119.652	78.603	993	T - Signal transduction mec
12.893	15.449	30.242	26.874	38.214	18.963	20.198	993	T - Signal transduction mec
7.953	9.036	25.033	17.174	12.338	3.505	5.265	993	T - Signal trai map04113 M
99.86	70.449	72.908	125.981	121.559	69.206	64.054	993	T - Signal trai map04113 M
49.653	48.336	36.407	70.052	140.328	41.709	45.358	993	T - Signal transduction mec
11.666	16.367	13.921	20.687	18.034	11.759	11.609	993	T - Signal trai map02020 Tv
28.536	26.622	72.44	39.846	54.407	45.13	38.117	993	T - Signal transduction mec
25.111	26.251	47.8	35.859	48.852	34.568	38.334	993	T - Signal transduction mec
268.108	295.409	230.485	333.812	610.966	202.742	249.28	993	T - Signal transduction mec
26.632	21.493	35.681	33.152	42.801	25.238	25.119	993	T - Signal transduction mec
36.328	36.048	47.656	54.076	81.875	45.548	41.804	993	T - Signal transduction mec
33.34	33.822	30.91	43.148	53.766	20.697	26.207	993	T - Signal transduction mec
54.807	57.536	55.004	77.662	201.912	52.539	53.465	993	T - Signal transduction mec
10.199	10.759	11.543	22.825	16.297	9.952	9.799	993	T - Signal transduction mec
47.412	56.265	72.353	65.287	105.66	47.484	39.944	993	T - Signal transduction mec
44.132	59.53	50.792	58.071	96.713	37.102	39.446	993	T - Signal transduction mec

4.676	5.581	9.949	11.79	10.417	7.299	6.482	993	T - Signal transduction mec
3.16	3.363	2.964	7.017	5.667	3.583	3.057	993	T - Signal transduction mec
29.859	30.661	21.643	34.539	79.708	14.159	16.871	993	T - Signal transduction mec
97.779	115.076	225.501	134.521	229.799	233.712	145.697	993	T - Signal transduction mec
15.091	11.53	11.078	38.242	31.432	11.815	10.278	993	T - Signal transduction mec
40.864	50.155	50.737	78.338	74.766	53.738	38.354	993	T - Signal trai map02020 Tv
11.223	16.461	14.533	22.611	19.901	12.571	6.409	993	T - Signal transduction mec
989.65	1682.338	979.734	1490.542	1810.644	1619.774	1415.809	993	T - Signal transduction mec
19.665	24.43	55.212	37.499	50.56	36.544	41.792	993	T - Signal transduction mec
70.076	65.11	77.47	57.917	124.42	70.088	67.537	993	T - Signal transduction mec
32.721	58.824	25.313	63.817	79.415	27.875	33.743	993	T - Signal transduction mec
56.991	64.239	89.098	71.064	120.8	69.45	92.001	993	T - Signal transduction mec
43.571	47.285	32.314	49.835	63.647	25.917	23.122	993	T - Signal transduction mec
147.47	294.213	140.752	208.637	221.016	150.632	138.045	993	T - Signal transduction mec
12.972	19.198	29.821	28.311	22.254	23.002	22.641	993	T - Signal transduction mec
18.736	25.345	28.212	39.308	40.855	23.038	19.986	993	T - Signal trai map02020 Tv
44.176	32.71	37.582	49.893	87.223	39.379	44.865	993	T - Signal trai map02020 Tv
5.026	4.065	6.533	10.849	7.52	4.131	4.599	993	T - Signal transduction mec
57.214	68.549	85.139	81.659	125.128	73.479	82.97	993	T - Signal transduction mec
46.803	45.343	57.121	60.955	118.47	51.52	51.915	993	T - Signal transduction mec
62.671	90.685	145.869	69.603	91.846	330.17	171.997	993	T - Signal trai map02020 Tv
101.923	131.035	103.643	167.778	278.031	105.115	148.36	993	T - Signal transduction mec
20.832	17.98	25.506	38.78	34.824	14.653	17.053	993	T - Signal trai map02020 Tv
97.174	123.317	114.553	84.948	121.24	103.845	95.416	993	T - Signal transduction mec
7.852	9.043	16.098	18.769	15.122	11.333	12.88	993	T - Signal transduction mec
4.753	8.095	6.819	14.622	9.329	5.414	4.807	993	T - Signal transduction mec
12.529	14.56	20.125	23.288	27.298	14.188	17.606	993	T - Signal trai map04112 Ce
32.203	38.363	37.82	46.885	88.679	41.765	39.025	993	T - Signal transduction mec
40.853	33.727	41.692	46.745	47.571	38.417	58.331	993	T - Signal trai map04112 Ce

1.332	2.656	4.169	13.138	9.308	3.449	3.145	993	T - Signal transduction mec
764.251	370.037	173.637	364.013	984.305	154.217	294.203	993	T - Signal transduction mec
34.184	26.84	87.636	28.798	40.956	60.072	133.418	993	T - Signal transduction mec
128.166	78.855	65.179	63.857	142.007	71.92	53.947	993	T - Signal transduction mec
11.181	14.399	13.471	22.437	31.492	12.773	14.702	993	T - Signal transduction mec
13.453	11.671	17.746	28.201	25.33	10.635	12.65	993	T - Signal transduction mec
59.812	78.413	423.965	92.154	89.815	145.618	176.771	993	T - Signal transduction mec
5.554	7.196	7.913	28.301	14.434	4.882	4.902	993	T - Signal tra map02020 Tv
7.784	33.072	16.589	60.505	15.828	11.079	11.059	993	T - Signal transduction mec
23.106	25.998	32.847	41.498	46.751	27.429	26.289	993	T - Signal tra map04112 Ce
104.032	156.431	186.033	139.676	245.226	151.091	135.515	993	T - Signal transduction mec
78.132	81.17	126.618	89.015	121.61	101.941	89.984	993	T - Signal tra map02020 Tv
26.042	19.208	35.837	27.165	30.936	25.379	27.184	993	T - Signal transduction mec
61.056	53.693	126.441	63.094	95.613	77.143	118.986	993	T - Signal transduction mec
40.577	56.689	60.152	49.148	71.909	82.334	53.133	993	T - Signal transduction mec
10.235	23.173	9.904	56.851	49.31	12.663	13.034	993	T - Signal transduction mec
10.365	22.046	7.96	75.605	57.056	13.104	16.435	993	T - Signal transduction mec
48.833	51.333	48.011	63.649	88.635	30.158	38.316	993	T - Signal tra map04112 Ce
4.011	3.113	4.569	10.942	4.465	3.247	4.344	993	T - Signal transduction mec
18.363	18.543	25.578	30.386	35.573	19.627	22.985	993	T - Signal transduction mec
312.592	243.384	30.194	265.233	833.863	43.646	65.67	993	T - Signal transduction mec
8.151	8.58	7.378	22.987	15.602	5.769	7.554	993	T - Signal transduction mec
37.387	37.329	31.168	76.083	85.885	23.231	34.013	993	T - Signal transduction mec
5.161	7.207	8.683	15.951	9.837	4.932	7.055	993	T - Signal transduction mec
51.373	49.444	28.293	60.375	56.65	26.1	35.277	993	T - Signal transduction mec
8.437	7.04	9.919	17.928	10.219	12.993	8.776	993	T - Signal transduction mec
39.148	54.105	117.343	103.068	77.072	54.169	78.386	993	T - Signal transduction mec
33.827	46.458	61.864	80.995	48.275	28.283	40.327	993	T - Signal transduction mec
8.63	33.989	18.65	63.784	17.11	12.759	11.255	993	T - Signal transduction mec

17.875	14.154	11.557	19.083	10.62	14.037	9.681	429	U - Intracellular trafficking,
23.265	15.517	5.315	19.265	4.669	8.879	6.379	633	U - Intracellular trafficking,
41.728	53.788	27.565	55.985	68.965	31.519	32.404	993	U - Intracellu map03060 Pr
341.814	459.918	301.209	361.554	626.13	297.101	269.525	993	U - Intracellular trafficking,
211.937	199.093	118.16	182.871	303.436	106.659	105.396	993	U - Intracellular trafficking,
34.765	46.874	25.794	69.609	135.419	21.074	33.611	993	U - Intracellu map03060 Pr
156.52	66.915	35.726	88.625	129.824	55.339	54.454	993	U - Intracellular trafficking,
100.405	91.197	80.452	101.112	174.867	54.261	70.589	993	U - Intracellu map03060 Pr
311.126	477.983	462.141	878.049	384.516	313.614	305.386	993	U - Intracellu map03060 Pr
307.121	664.988	509.992	1224.034	539.103	444.54	491.479	993	U - Intracellu map03060 Pr
53.126	83.028	25.629	75.552	134.479	35.216	33.395	993	U - Intracellu map03060 Pr
98.358	105.031	144.465	130.701	162.721	65.823	69.981	993	U - Intracellu map03060 Pr
123.534	170.207	147.563	132.653	151.445	98.903	118.902	993	U - Intracellular trafficking,
216.383	291.076	182.288	322.723	372.611	167.951	143.933	993	U - Intracellu map03060 Pr
307.508	563.94	181.281	329.281	400.485	275.265	226.721	993	U - Intracellular trafficking,
58.515	59.899	46.499	65.62	69.6	28.592	34.634	993	U - Intracellu map03060 Pr
261.797	307.188	222.858	249.999	355.731	215.826	192.277	993	U - Intracellu map03060 Pr
91.747	127.743	60.273	119.472	150.82	52.735	57.805	993	U - Intracellu map03060 Pr
73.537	111.995	58.371	123.867	102.225	46.921	53.789	993	U - Intracellu map03060 Pr
66.41	69.451	70.136	68.89	145.512	53.947	58.362	993	U - Intracellu map03060 Pr
150.186	155.651	111.661	148.617	166.427	75.902	93.892	993	U - Intracellu map03060 Pr
43.886	53.868	18.766	59.786	52.423	18.909	15.884	993	U - Intracellular trafficking,
31.024	27.583	20.86	50.749	76.719	15.554	13.892	993	U - Intracellular trafficking,
10.388	9.659	10.945	22.213	20.659	7.267	10.951	993	U - Intracellular trafficking,
12.757	20.916	21.935	27.657	14.976	12.116	12.732	993	U - Intracellular trafficking,
50.121	53.11	61.803	49.048	40.241	39.149	48.258	993	U - Intracellular trafficking,
108.139	57.139	52.743	63.244	168.799	50.733	61.776	993	U - Intracellular trafficking,
44.702	42.716	48.572	35.369	70.185	33.465	48.73	993	U - Intracellu map05133 Pe
13.996	10.56	14.318	22.656	9.618	9.142	9.265	1818	V - Defense r map02010 AE

6.907	12.943	9.181	21.389	14.506	6.32	8.267	993	V - Defense r map02010 AE
34.281	35.575	62.925	44.047	61.754	45.571	42.497	993	V - Defense mechanisms
210.076	155.222	238.48	133.835	219.883	99.504	135	993	V - Defense mechanisms
17.755	16.136	14.788	45.37	24.113	16.185	13.123	993	V - Defense mechanisms
80.317	103.997	177.609	82.708	139.952	174.61	139.227	993	V - Defense mechanisms
192.06	369.916	224.886	377.264	308.173	124.077	276.264	993	V - Defense mechanisms
57.116	52.765	55.448	94.13	105.932	31.134	34.765	993	V - Defense mechanisms
39.325	49.888	54.319	70.356	73.296	44.992	42.991	993	V - Defense mechanisms
37.169	42.422	50.716	57.514	66.391	35.806	29.42	993	V - Defense mechanisms
9.841	19.73	15.263	20.656	25.057	12.747	9.693	993	V - Defense mechanisms
28.617	24.542	23.148	31.43	41.219	17.937	14.634	993	V - Defense mechanisms
36.485	41.281	31.167	72.259	80.941	25.963	29.399	993	V - Defense mechanisms
19.016	37.688	22.718	70.553	82.682	27.919	20.473	993	V - Defense mechanisms
33.279	48.885	29.122	68.523	65.51	37.93	27.25	993	V - Defense mechanisms
7.905	13.955	10.547	12.302	8.478	19.305	12.987	993	V - Defense mechanisms
154.617	93.526	157.039	148.391	201.326	44.632	73.398	993	V - Defense mechanisms
210.642	202.747	114.412	167.974	243.815	134.735	115.3	993	V - Defense mechanisms
223.996	295.971	105.54	251.28	317.092	156.695	118.178	993	V - Defense mechanisms
16.798	25.175	25.957	31.645	37.485	16.252	18.811	993	V - Defense mechanisms
41.07	31.046	16.418	41.038	70.947	17.547	22.666	993	V - Defense mechanisms
5.714	10.735	5.564	28.659	20.187	4.388	5.043	993	V - Defense mechanisms
80.258	47.054	117.749	90.19	117.149	29.4	39.885	993	V - Defense mechanisms
162.677	90.312	179.219	133.442	248.994	49.982	63.517	993	V - Defense mechanisms
44.911	57.897	37.314	60.821	56.297	37.71	40.661	993	V - Defense mechanisms
66.076	80.947	37.539	90.108	52.79	53.679	59.045	993	V - Defense mechanisms
210.029	286.692	212.904	271.092	317.159	276.205	191.248	993	V - Defense mechanisms
232.279	133.487	161.469	182.309	290.104	118.124	118.886	993	V - Defense r map02010 AE
96.907	103.321	78.531	139.759	218.204	37.685	44.312	993	V - Defense r map02010 AE
30.113	38.503	26.985	51.027	69.791	26.518	29.4	993	V - Defense r map00550 Pe

70.777	95.75	74.987	68.221	92.729	55.412	54.054	993	V - Defense mechanisms
94.837	188.312	127.633	98.3	186.587	188.093	131.377	993	V - Defense mechanisms
12.009	10.63	12.457	20.612	19.99	11.644	11.07	993	V - Defense mechanisms
37.77	43.389	16.176	38.122	54.688	17.478	21.078	993	V - Defense r map02010 AE
29.992	40.412	53.746	43.909	43.716	27.199	28.138	993	V - Defense mechanisms
50.195	50.564	105.3	63.309	81.032	63.8	58.378	993	V - Defense mechanisms
49.603	83.893	32.488	64.13	96.739	60.38	37.758	993	V - Defense r map01110 Bi
31.755	22.702	16.007	21.921	35.828	19.279	13.036	993	V - Defense mechanisms
28	36.986	21.481	41.38	43.468	17.901	19.669	993	V - Defense r map01110 Bi
3.856	5.23	4.179	16.495	6.486	5.583	4.084	993	V - Defense mechanisms
23.934	28.204	46.977	29.81	41.661	26.664	24.341	993	V - Defense mechanisms
19.516	20.541	33.509	29.906	46.39	15.124	19.728	993	V - Defense mechanisms
92.475	73.292	119.487	72.951	151.924	60.633	71.296	993	V - Defense mechanisms
34.113	13.544	7.117	31.136	105.97	3.902	7.23	993	V - Defense r map02010 AE
43.379	56.553	28.669	61.068	99.999	30.94	29.37	993	V - Defense mechanisms
43.072	39.905	61.195	43.753	60.06	44.41	44.676	993	V - Defense mechanisms
14.436	15.965	11.388	17.371	20.523	11.733	11.187	993	V - Defense mechanisms
57.532	63.754	40.493	76.352	64.614	47.772	39.779	993	V - Defense mechanisms
4.357	6.012	8.441	26.72	12.067	6.905	8.46	993	V - Defense mechanisms
64.388	78.877	74.273	123.178	109.456	120.437	87.166	993	V - Defense mechanisms
33.301	62.145	19.325	96.814	66.979	20.269	23.492	993	V - Defense mechanisms
11.766	14.92	9.638	38.213	16.003	7.385	6.231	993	V - Defense mechanisms
14.769	16.393	13.758	34.089	19.559	10.917	13.409	993	V - Defense mechanisms
58.595	56.793	70.389	77.435	92.943	36.916	42.434	522	
35.13	45.665	34.179	73.494	109.807	20.702	29.745	702	
717.603	1039.942	497.274	783.327	611.458	540.867	521.023	1077	map00860 Pc
43844.905	46350.569	103208.058	52823.718	44757.198	29214.858	38075.112	1083	map00195 Ph
1.765	2.851	2.344	11.224	4.603	1.751	1.527	1284	
19.728	7.483	12.458	26.986	5.083	7.532	7.72	1599	

3.793	3.533	2.54	17.882	6.699	3.494	2.853	993	
123.27	143.789	59.172	146.229	137.636	69.106	71.171	993	
216.697	307.657	77.307	240.989	265.89	128.845	133.063	993	map00195 Ph
19.236	24.341	25.84	24.888	26.817	21.054	24.099	993	
91.999	79.491	131.044	75.866	94.77	110.481	96.532	993	
20.777	20.297	29.461	32.872	35.059	18.768	19.126	993	
11.757	19.134	8.432	28.426	18.243	10.408	18.617	993	
9.795	9.864	7.207	12.725	9.784	7.002	6.484	993	
75.039	49.962	53.755	53.467	82.58	53.528	63.635	993	
85.629	158.745	57.181	50.633	156.487	96.74	47.669	993	
39.694	58.225	46.326	58.776	104.005	47.343	42.898	993	
27.653	43.814	22.902	40.705	59.434	22.053	19.997	993	
496.003	392.579	346.884	225.359	548.056	483.674	352.654	993	
9.27	10.85	5.196	29.794	12.139	7.363	7.141	993	
37.267	33.117	42.161	39.437	50.856	29.484	31.905	993	
4.388	2.784	3.397	10.634	6.201	2.311	1.383	993	
14.926	15.203	4.45	26.589	17.681	6.012	5.088	993	
237.219	145.322	174.761	147.702	293.357	117.813	148.92	993	
68.578	51.249	41.273	63.904	62.649	33.203	39.612	993	
128.586	105.543	57.634	129.996	175.082	46.886	58.59	993	
33.038	40.898	13.517	34.501	45.119	19.817	17.907	993	
3.975	10.026	5.592	16.756	15.986	3.099	2.834	993	
229.231	318.979	188.389	471.391	402.25	141.402	155.103	993	
4120.199	3232.411	882.259	907.417	2285.274	3414.267	2760.394	993	map00195 Ph
151.617	137.098	126.993	121.455	296.961	106.852	127.019	993	
17.368	13.706	14.908	25.202	40.341	10.853	14.669	993	
52.532	42.008	24.28	62.093	91.989	26.384	19.364	993	
27.067	33.824	18.781	63.958	58.304	15.055	18.572	993	
25.013	18.19	20.495	18.161	17.102	32.711	23.501	993	map00195 Ph

179.662	217.487	125.389	219.584	316.205	166.105	156.263	993	
11.098	22.976	4.315	23.605	28.004	13.93	6.822	993	
74.361	69.769	59.97	74.134	111.973	65.09	65.528	993	
1429.321	2079.427	552.258	511.334	1020.958	1612.287	1193.886	993	map00195 Ph
297.494	440.911	733.598	494.793	410.459	334.694	233.268	993	
1277.495	1907.921	570.773	1268.918	1848.707	1016.489	869.861	993	
17.428	14.882	29.513	26.531	38.31	25.872	15.382	993	map00195 Ph
6812.051	8431.417	2079.348	12784.646	15145.386	5250.731	4779.568	993	
24.573	44.686	32.441	38.297	47.905	27.952	21.487	993	
9.769	10.544	11.514	24.984	16.013	6.001	7.588	993	
73.876	54.373	58.56	63.79	104.069	70.808	56.926	993	
108.927	105.367	84.701	103.185	150.638	74.136	78.834	993	
47.128	38.059	42.113	40.754	76.189	36.447	37.332	993	
41.388	44.878	33.794	36.084	68.693	23.574	45.429	993	
7.134	15.143	27.959	23.937	20.163	28.172	25.637	993	
16.627	26.686	28.291	34.699	31.846	23.995	24.93	993	
3.465	2.946	1.948	8.225	4.271	2.581	2.05	993	
9.628	17.056	14.756	31.46	21.907	8.871	11.882	993	
55.06	105.954	22.905	98.217	82.704	21.371	31.568	993	
8.087	16.912	18.697	22.45	17.841	21.441	30.371	993	
5.586	14.702	17.265	16.917	7.727	18.529	25.377	993	
13.712	14.235	17.231	19.951	24.984	16.956	16.242	993	
551.896	444.667	114.026	412.602	490.063	182.075	139.838	993	
57.877	55.182	56.483	58.874	69.178	35.585	47.241	993	
65.14	73.528	29.951	76.974	124.763	29.016	33.696	993	
454.219	576.932	267.464	482.271	546.328	481.793	317.681	993	
7.307	6.365	10.58	14.302	23.234	10.436	9.916	993	
102.621	91.58	78.962	78.059	128.928	52.563	73.294	993	
31.985	48.66	19.979	66.113	59.378	15.487	19.552	993	

159.154	190.525	248.551	158.117	333.925	197.801	176.054	993	
69.432	61.58	45.775	61.13	107.327	44.447	52.386	993	
72.618	214.512	15.774	27.935	38.215	343.315	276.481	993	
1938.899	2027.837	1239.528	1102.568	2093.652	1812.841	1731.367	993	map00195 Ph
46.906	23.812	32.573	49.692	102.159	27.557	24.498	993	
3513.388	13560.101	21648.361	15141.794	13934.461	34389.436	43724.378	993	
94.155	86.027	61.113	68.221	155.073	68.084	86.665	993	
217.734	218.581	202.519	185.468	337.911	183.271	194.413	993	
11.708	17.008	9.637	16.968	24.292	9.832	9.614	993	
169.665	192.039	99.898	179.057	224.98	111.031	91.955	993	
7.886	5.253	8.28	15.177	17.83	5.329	8.7	993	
6.971	8.632	4.722	15.634	11.493	2.944	6.537	993	
103.272	85.738	70.647	94.962	176.261	68.982	59.98	993	
320.067	410.342	268.026	554.21	468.801	160.583	233.635	993	
106.568	114.699	37.22	143.033	207.582	45.856	56.826	993	
151.691	184.752	44.567	268.607	309.088	90.97	76.134	993	
1676.488	2110.358	943.856	1293.715	1697.831	2382.142	2248.454	993	map00196 Ph
14.896	12.466	45.404	18.707	41.046	22.418	40.427	993	
159.759	263.506	326.157	202.95	443.96	213.717	330.547	993	
91.176	141.383	138.75	131.863	252.831	95.904	160.231	993	
53.008	105.137	103.158	69.165	107.154	44.832	116.341	993	map00624 Pc
64.442	93.04	123.327	77.935	103.838	69.657	115.112	993	
63.79	80.832	86.223	114.538	100.2	68.484	136.102	993	
121.698	201.169	171.733	243.578	198.86	107.978	191.614	993	
16.354	29.265	34.225	47.535	36.562	20.916	59.46	993	
12.419	21.569	20.317	42.844	23.795	13.77	28.702	993	
8.243	15.955	21.736	40.59	24.775	10.609	33.172	993	
91.719	111.302	141.481	73.045	161.198	80.94	143.8	993	
81.205	68.654	90.907	79.675	163.285	45.518	95.717	993	

233.613	240.335	221.03	220.752	569.403	140.083	138.685	993	
72.618	124.191	106.856	165.162	243.445	59.065	124.649	993	
151.21	219.753	144.005	122.976	201.736	230.244	193.641	993	
228.262	318.731	188.389	470.207	401.224	141.179	154.783	993	
104.729	100.572	62.138	73.396	122.817	65.864	67.898	993	
27.737	30.057	21.643	44.979	60.603	18.42	25.034	993	
426.31	270.071	614.122	328.566	255.33	356.982	599.452	993	
176.286	187.997	97.697	194.405	326.244	129.512	141.003	993	
152.301	159.081	77.271	141.36	236.014	102.805	117.835	993	
8.644	13.192	18.133	39.386	37.04	8.093	9.906	993	
12.185	21.261	18.27	20.562	17.963	13.412	12.644	993	
140.201	174.025	2388.55	248.44	964.305	282.269	268.675	993	
15.052	24.624	24.683	23.257	48.882	19.708	17.829	993	
291.246	267.684	53.713	313.25	619.246	83.146	94.6	993	
421.184	354.387	132.807	350.878	835.028	212.438	233.136	993	map00195 Ph
237.91	317.963	121.329	268.915	392.216	241.511	194.413	993	
75.491	61.328	69.079	49.979	69.462	64.262	60.641	993	
73.507	65.941	104.599	60.848	92.237	75.254	70.284	993	
13.299	16.855	30.579	82.194	37.584	21.282	21.776	993	
5.571	4.485	5.256	26.089	9.559	4.4	7.375	993	
15.061	14.882	22.954	13.16	25.084	18.834	19.94	993	
13.328	8.754	15.624	24.078	35.251	14.169	10.858	993	
72.193	79.025	42.111	96.414	135.86	36.468	42.278	993	
70.233	137.273	72.9	128.764	206.302	53.727	72.032	993	
335.564	515.654	566.023	487.412	706.794	2428.361	1243.954	993	
40.634	27	16.046	36.114	50.466	18.574	20.173	993	
7.673	19.656	21.717	41.298	51.114	33.328	37.73	993	
13.832	13.465	26.351	40.946	30.296	19.117	22.432	993	
111.15	125.437	75.889	123.274	228.265	82.749	61.215	993	

79.536	99.538	19.798	105.976	135.625	28.499	33.277	993	
8.324	5.808	3.779	8.32	8.259	4.569	2.11	993	
1527.688	1431.089	255.382	733.191	1238.492	762.411	539.401	993	
297.215	207.025	640.317	119.54	155.755	704.222	600.522	993	
153.445	241.353	98.161	134.713	215.937	134.983	144.626	993	map00195 Ph
43.311	53.417	35.837	53.044	63.401	33.933	27.468	993	
172.618	209.68	152.638	233.561	255.949	130.75	144.514	993	
124.39	127.463	92.357	170.888	214.404	72.42	74.649	993	
12.181	18.243	44.269	25.216	16.551	55.686	37.215	993	
943.975	797.911	348.817	582.439	1093.074	388.774	285.25	993	
2061.287	3273.034	810.876	2161.385	2536.336	1489.633	1305.139	993	map00195 Ph
1715.074	2531.327	655.179	1686.585	1834.296	1196.639	1058.805	993	map00195 Ph
2420.356	3155.808	1091.965	1982.685	2824.984	1593.783	1610.32	993	map00195 Ph
2093.575	3393.926	1018.184	1978.421	2290.361	1500.11	1445.923	993	map00195 Ph
1.062	2.472	0.882	6.705	5.318	1.067	0.894	993	
90.331	131.782	137.957	104.004	129.093	93.411	141.757	993	
75.008	80.063	81.253	77.901	164.443	46.074	58.17	993	
114.838	134.288	90.871	103.522	240.166	68.59	82.813	993	
99.487	184.169	102.925	85.987	214.465	242.547	135.555	993	
103.178	23.254	79.315	83.204	120.572	55.758	102.147	993	
85.915	75.88	75.373	89.325	134.955	48.137	68.539	993	
177.895	172.882	76.61	145.81	174.179	115.792	86.475	993	
5479.332	8021.223	2421.781	3721.825	3569.428	6672.234	6429.385	993	map00196 Ph
351.772	608.535	125.65	224.838	430.09	684.491	289.38	993	
74.86	104.676	127.36	57.424	102.477	112.264	72.523	993	
38.084	37.537	39.022	49.903	70.462	30.63	34.183	993	
7017.838	6696.769	1713.125	6815.995	8789.508	4341.746	3765.836	993	
78.407	87.213	42.102	68.182	183.702	46.228	47.33	993	
50.463	54.989	18.008	68.414	150.965	23.362	24.442	993	

39.787	40.77	82.09	45.624	81.057	41.832	63.985	993
99.59	159.029	97.813	136.443	169.265	83.86	82.038	993
256.731	338.46	417.042	216.233	491.475	301.063	343.58	993
114.67	103.69	76.385	102.555	257.543	95.685	92.997	993
68.451	181.242	42.584	227.405	177.789	64.487	43.704	993
8.187	12.664	13.916	22.109	17.13	12.62	19.592	993
120.59	261.118	12624.224	168.4	1577.779	593.669	332.698	993
43.81	62.473	69.484	44.2	46.12	85.291	51.133	993
44.431	49.608	34.213	47.692	70.082	39.452	29.91	993
29.047	30.332	10.119	30.321	39.091	13.764	8.424	993
20.903	20.446	10.481	38.786	62.144	14.382	13.477	993
13.11	13.17	8.88	37.482	38.503	7.342	7.827	993
10.82	14.212	19.388	23.925	23.421	29.681	32.212	993
19.201	29.26	22.259	48.179	29.915	17.011	13.036	993
6.415	5.311	7.196	13.761	9.573	4.965	7.202	993
94.568	108.235	68.08	74.779	108.445	124.999	112.307	993
12.477	4.395	6.734	21.558	18.457	5.389	4.646	993
364.553	332.95	458.245	183.334	508.142	253.322	302.874	993
37.621	28.51	30.401	34.59	38.079	31.439	32.896	993
361.127	275.123	344.579	221.771	539.513	237.981	218.953	993
33.485	127.327	114.361	104.227	91.783	78.061	42.728	993
28.691	64.46	101.393	86.323	97.956	84.068	70.069	993
65.755	87.005	173.832	124.635	155.614	154.701	145.792	993
10.893	16.574	10.061	17.766	24.721	11.253	10.925	993
56.984	47.396	50.566	60.834	73.203	41.254	36.986	993
58.094	40.245	81.056	142.929	302.352	4.9	7.583	993
9.062	12.105	7.563	18.449	24.124	7.604	9.534	993
53.441	53.316	17.765	45.26	60.174	44.693	54.323	993
204.168	210.357	551.942	207.452	242.329	346.256	373.091	993

25.344	23.243	44.445	57.304	56.418	43.398	34.932	993	
22.478	26.609	30.66	34.553	49.458	26.385	23.508	993	
33.008	40.588	65.733	42.315	65.3	42.579	44.573	993	
62.82	86.223	43.683	77.268	104.895	36.96	34.183	993	
1909.506	2966.2	668.951	2421.251	1082.83	1238.144	1760.708	993	map00196 Ph
7575.544	8563.993	2106.813	6571.275	2622.58	4970.09	8061.148	993	map00196 Ph
8477.536	9550.902	2059.632	6713.107	2592.783	4673.015	8027.496	993	map00196 Ph
56018.641	66771.296	9464.119	46344.694	31867.734	23064.143	39217.199	993	map00196 Ph
47530.418	56867.546	7951.845	41626.726	28946.374	20747.657	33249.921	993	map00196 Ph
16.314	9.786	10.511	25.31	20.804	10.266	14.75	993	
261.002	229.892	288.043	141.301	169.706	338.1	349.035	993	
78.842	111.405	109.337	98.813	227.512	118.27	99.984	993	
91.163	106.695	62.657	110.641	107.982	55.175	64.487	993	map04978 M
170.213	140.198	117.956	133.437	261.439	154.531	131.41	993	
63.809	54.04	50.558	40.192	58.541	47.495	48.7	993	
46.933	45.16	35.764	48.87	89.169	37.97	36.75	993	
210.294	257.282	134.626	130.251	400.338	305.95	193.857	993	
103.106	96.792	97.549	137.788	86.165	79.678	72.801	993	
95.737	103.873	101.186	128.495	83.767	75.102	80.442	993	
101.812	110.941	89.134	124.326	85.823	69.207	80.795	993	
57.933	40.978	39.241	55.119	61.512	30.248	46.338	993	
76.43	57.26	60.464	75.292	76.705	54.732	74.796	993	
92.79	94.728	179.535	82.908	162.392	121.074	252.554	993	
480.599	493.824	259.481	341.661	734.828	265.205	268.439	993	
117.925	127.309	147.563	97.172	125.592	99.491	106.379	993	
56.566	64.229	81.082	118.191	130.051	50.147	57.886	993	
88.718	84.218	68.176	211.76	338.549	17.22	23.848	993	
2.272	2.328	0.783	7.702	3.784	1.57	1.396	993	
2145.941	3283.053	4189.801	2431.967	2821.221	3809.081	5054.749	993	

2.613	4.095	7.027	16.093	11.076	5.098	5.697	993
174.113	170.408	108.385	128.829	189.627	109.559	109.969	993
61.778	84.226	73.354	159.019	102.615	27.637	34.415	993
28.039	31.832	21.929	29.215	32.495	15.798	20.563	993
58.094	55.9	45.349	47.838	83.093	23.826	37.986	993
26.142	27.78	91.981	53.061	39.678	26.764	64.733	993
55.812	32.954	31.831	70.252	113.756	13	13.459	993
32.373	25.675	25.683	74.861	67.679	20.022	23.778	993
127.199	93.855	59.739	121.496	148.791	35.289	43.728	993
21.249	20.731	26.297	42.804	50.469	22.182	21.397	993
35.419	55.689	27.989	87.111	100.364	42.822	26.05	993
46.948	86.456	52.024	94.135	108.151	42.573	36.488	993
3.83	5.233	5.513	14.994	8.57	5	1.69	993
43.969	54.025	54.174	73.4	69.441	40.329	39.246	993
44.667	63.742	40.232	76.561	110.166	41.408	39.181	993
14.524	16.235	63.497	33.163	150.502	4.866	4.661	993
6.703	8.243	6.13	19.461	9.788	3.912	6.804	993
55.75	56.059	70.01	45.506	120.745	61.929	66.219	993
111.5	152.688	76.215	132.553	232.161	93.908	99.714	993
44.109	57.325	38.804	40.796	69.93	40.889	32.402	993
8.543	17.509	10.069	40.799	38.149	9.761	6.786	993
34.161	43.18	31.175	52.848	66.483	24.879	19.499	993
51.962	47.458	43.777	55.035	84.714	49.885	47.322	993
77.876	108.667	38.29	120.196	173.384	33.685	40.61	993
77.399	138.841	46.01	145.129	199.111	58.681	53.264	993
134.617	96.488	76.233	90	211.306	75.682	62.272	993
156.356	188.82	322.563	167.667	209.398	126.71	133.693	993
30.661	35.759	397.395	74.617	25.369	20.878	21.453	993
54.24	45.141	49.934	35.835	55.636	68.622	62.877	993

23102.897	24311.988	17865.973	18505.02	8612.379	42543.563	32535.88	993	map00195 Ph
23971.303	22776.667	14075.801	18032.307	6293.592	42688.603	33215.015	993	map00195 Ph
4.401	10.192	7.155	15.677	15.921	7.786	10.022	993	
6023.308	12136.049	6529.059	8580.383	8838.594	12747.451	7964.779	993	
9.021	13.196	12.335	23.04	35.194	13.852	12.994	993	
9.538	10.662	22.685	16.122	23.892	14.98	18.941	993	
24.985	10.199	8.152	14.61	29.852	23.676	26.757	993	
509.57	47.077	39.149	48.323	286.065	136.714	132.396	993	
59.746	88.871	35.107	84.873	78.979	43.38	37.726	993	
102.279	83.844	377.013	210.189	180.949	23.748	27.081	993	
114.234	87.005	344.786	197.066	190.627	24.962	28.102	993	
64.696	103.726	25.488	122.316	151.745	40.551	48.361	993	
38.25	72.103	15.974	71.205	109.591	19.609	22.464	993	
11.358	16.981	5.297	35.532	13.156	6.863	7.395	993	
59.373	94.536	17.448	80.986	199.292	78.44	37.488	993	
191.638	180.461	149.79	260.478	366.315	90.643	127.701	993	
17.488	22.475	28.76	62.942	53.611	19.8	24.918	993	
44.301	66.181	95.627	27.79	38.982	95.542	85.719	993	
83.841	110.941	106.983	109.826	159.519	75.729	72.104	993	
23.86	31.182	33.729	38.578	43	30.906	27.926	993	
16.264	44.217	19.39	68.245	49.95	18.635	20.34	993	
46.516	101.575	55.517	139.146	145.239	64.57	63.196	993	
892.95	1130.548	308.61	1238.964	1417.853	451.062	347.093	993	
985.646	1332.725	406.875	1534.982	1693.95	595.118	460.601	993	
25.416	41.671	15.863	47.258	82.092	25.426	22.593	993	
429.18	364.869	669.836	326.415	533.135	587.6	921.633	993	
99.89	74.081	36.727	79.907	80.724	86.982	50.206	993	
7.16	7.756	3.325	37.934	40.612	3.864	2.844	993	
60.922	104.308	58.764	68.423	107.882	137.372	79.293	993	

89.853	107.947	59.025	97.784	227.121	63.876	53.325	993	
3.128	6.182	7.038	10.058	4.42	3.294	2.662	993	
34.857	38.869	43.748	46.484	62.293	41.248	31.217	993	
68.607	76.538	62.117	71.741	151.674	74.174	69.22	993	
621.556	843.059	198.937	515.082	792.414	390.057	431.911	993	map00195 Ph
53.542	53.31	31.495	69.579	120.687	35.552	33.577	993	
62.654	55.549	64.001	46.274	80.183	54.461	53.882	993	
37.303	60.971	31.439	85.217	58.933	40.118	32.788	993	
29.047	49.685	35.714	57.625	55.101	36.136	34.565	993	
12.268	37.453	10.713	28.525	16.977	27.651	16.979	993	
617.091	236.134	149.858	162.658	1006.993	407.702	256.369	993	
91.74	109.75	136.054	94.441	114.025	112.377	123.755	993	
599.964	990.245	475.047	487.275	739.868	476.721	326.383	993	
48.246	56.597	28.096	50.143	121.624	55.543	33.228	993	
38.899	54.384	65.289	65.559	60.177	65.24	55.369	993	
91.233	51.984	115.141	109.298	301.774	42.973	42.788	993	
124.288	122.78	126.564	113.976	227.331	112.974	120.173	993	
52.994	77.252	40.101	71.823	122.824	79.066	61.646	993	
59.923	52.244	120.114	51.683	63.148	64.57	69.919	993	
72.704	167.141	424.876	49.45	54.89	709.003	358.386	993	
3.873	2.646	2.951	12.949	6.385	3.271	0.427	993	
10.563	19.167	11.626	19.596	12.438	14.598	10.779	993	
26.012	27.099	18.941	50.487	54.524	13.582	16.932	993	
89.479	82.281	33.074	89.851	81.148	29.225	32.046	993	
884.835	895.747	250.094	737.337	650.871	316.366	306.357	993	map00195 Ph
1724.062	2278.607	731.458	1235.42	2380.662	1405.305	1238.856	993	map00195 Ph
46.211	57.5	36.22	102.074	86.756	35.888	54.187	993	
15.881	34.402	11.788	31.969	26.395	18.121	14.162	993	
86.063	52.406	29.581	81.423	387.616	18.345	29.941	993	

39.564	95.35	55.565	86.943	106.719	41.438	35.273	993	
249.979	496.817	139.664	270.519	258.482	277.985	185.558	993	
215.036	475.459	143.488	257.952	247.654	320.566	193.568	993	
547.286	1335.162	226.575	388.633	1160.795	604.522	369.701	993	
7.169	11.906	5.275	29.877	24.104	6.492	3.273	993	
4.297	8.043	2.27	16.035	12.468	3.431	3.034	993	
7.479	8.466	4.33	36.596	19.908	3.526	3.799	993	
140.299	172.706	88.538	103.815	199.876	116.047	133.15	993	
201.96	190.663	163.154	310.268	600.974	80.544	99.766	993	
261.425	223.726	249.397	287.38	556.149	154.995	166.922	993	
154.098	131.671	104.044	144.537	240.014	106.602	102.33	993	
133.799	202.958	137.602	149.057	220.622	167.441	144.448	993	
252.811	338.908	261.746	203.488	374.225	265.977	247.971	993	
172.131	254.434	95.752	142.76	233.202	145.317	140.149	993	
16.06	31.182	14.444	36.698	43.543	11.753	13.734	993	
132.745	240.15	93.171	253.987	354.984	101.392	94.892	993	
79.718	88.302	75.749	97.91	153.238	60.07	57.256	993	
2189.77	2489.524	1320.589	1461.833	3766.372	1435.966	1164.43	993	
1072.152	1034.857	830.041	956.318	2252.394	1104.006	711.425	993	
17.229	37.352	17.288	38.388	51.307	18.498	17.72	993	
30.464	56.19	85.37	67.251	57.865	51.7	52.712	993	
50.24	82.764	100.734	105.726	56.543	59.672	54.936	993	
33.441	42.771	24.304	84.321	87.611	25.864	24.883	993	
57.419	70.259	31.572	113.041	151.297	44.503	47.846	993	
67.535	152.544	124.691	61.115	140.582	131.812	87.486	993	map00195 Ph
27.164	51.199	17.023	62.963	116.834	15.163	22.443	993	
95.99	136.504	119.028	135.633	199.657	81	87.607	993	
63.02	61.966	50.223	73.641	181.946	44.606	49.7	993	
64.646	52.592	116.719	52.47	103.849	74.355	85.73	993	

40.026	51.795	31.372	60.88	78.86	22.128	30.583	993	
52.285	42.973	35.046	31.979	44.894	49.848	38.455	993	
50.239	50.357	31.926	33.968	36.657	51.508	45.953	993	
93.555	73.639	68.415	64.788	78.36	89.502	66.673	993	
93.138	82.381	56.74	64.737	63.82	83.054	58.055	993	
28.833	34.268	38.007	47.621	46.196	56.194	16.603	993	
23.151	25.786	17.532	25.47	39.217	18.019	19.608	993	
170.503	215.489	236.909	177.173	246.838	209.527	214.665	993	
118.9	102.589	100.539	177.376	301.824	96.171	86.396	993	
3.477	5.659	6.651	18.817	11.273	5.089	4.333	993	
32.957	45.22	23.675	49.745	42.286	23.014	15.53	993	map01110 Bi
85.961	35.089	67.423	34.434	72.748	65.278	62.842	993	map00195 Ph
67.343	64.564	77.819	50.629	103.738	49.267	50.509	993	
128.376	134.67	166.137	113.901	341.284	112.483	130.157	993	
62.065	69.594	91.723	75.461	136.426	66.236	109.003	993	
55.932	63.575	32.187	98.432	150.502	29.276	31.237	993	
143.993	134.021	53.501	176.634	233.106	57.106	65.395	993	
217.37	304.841	181.01	437.754	384.121	132.927	145.49	993	
8378.668	7378.891	5575.254	8173.168	3634.948	8438.91	7194.657	993	map00195 Ph
8487.865	8417.439	8495.773	9653.426	4718.883	8160.452	7867.998	993	map00195 Ph
25.476	23.34	54.51	30.756	35.439	48.336	47.596	993	
43.131	36.83	47.846	59.866	66.544	28.521	26.025	993	
7.701	4.984	7.275	20.096	18.327	4.481	5.187	993	
2.563	8.754	13.599	4.459	9.658	14.694	8.294	993	
6.722	12.791	5.366	22.083	14.587	18.58	10.17	993	
4.539	6.046	2.767	13.324	6.734	7.318	2.704	993	
15.886	24.099	17.328	34.751	30.702	13.418	15.877	993	
4.482	6.888	7.926	14.538	14.542	3.365	3.736	993	
7.016	10.594	13.881	13.972	9.74	6.578	6.192	993	

22.552	33.832	97.336	34.958	40.791	15.46	16.481	993	
6.06	12.42	156.905	13.088	13.879	5.584	12.173	993	
239.512	215.403	319.719	195.239	353.571	233.596	209.818	993	
92.609	128.514	68.4	157.511	239.998	65.178	71.934	993	
247.316	207.219	240.598	187.609	539.851	306.637	254.172	993	
66.303	60.177	45.766	72.3	155.261	42.279	43.75	993	map00480 Gl
178.363	138.958	53.056	149.634	300.926	147.652	70.862	993	
27.444	35.831	13.221	39.892	52.201	21.82	13.635	993	
38.112	66.918	36.838	70.762	121.391	43.088	46.365	993	
22.066	21.397	19.759	26.474	44.921	16.483	15.679	993	
99.077	121.269	108.554	63.606	157.275	77.641	82.241	993	
9.976	12.928	12.222	10.911	19.901	11.354	10.488	993	
5509.843	5958.316	4115.309	9048.899	4178.246	6191.545	4879.907	993	
134.565	122.947	99.138	108.945	241.249	125.954	105.478	993	
408.769	548.248	413.057	250.787	675.768	378.578	395.408	993	
15683.683	18778.254	1966.411	10426.049	11198.183	8410.272	6741.565	993	map00196 Ph
16064.883	19056.426	1912.669	10544.665	10443.901	8592.992	7077.931	993	map00196 Ph
3169.987	4259.424	597.629	2548.688	1431.174	3094.366	2094.689	993	map00196 Ph
195.014	195.385	123.071	200.866	163.673	98.171	101.963	993	
117.387	145.571	132.228	154.26	221.902	103.965	105.455	993	
10.554	9.429	9.899	15.537	19.376	8.894	7.046	993	
38.868	64.065	38.366	56.039	62.351	37.087	38.639	993	
92.232	70.883	24.645	65.643	105.788	36.145	36.473	993	
112.581	107.842	34.421	126.21	108.448	56.965	49.628	993	
23.278	34.454	17.182	59.577	54.822	22.364	18.438	993	
228.747	317.987	188.389	471.628	402.25	141.402	155.103	993	
43.6	58.624	32.985	79.28	112.064	25.352	28.393	993	
90.54	136.244	69.605	117.457	222.887	89.785	72.557	993	
13.324	12.834	10.018	19.82	13.556	11.786	10.584	993	

26.155	28.283	17.267	31.256	53.82	21.989	18.988	993	
24.319	22.497	20.933	29.748	24.341	29.876	25.488	993	
24.529	92.105	67.551	42.638	38.31	126.385	109.384	993	
277.965	362.551	286.108	255.041	486.85	215.969	257.972	993	
249.16	241.646	366.174	214.561	269.991	153.049	154.391	993	
36.451	43.188	47.741	67.162	71.227	22.041	26.768	993	
358.94	318.908	180.94	229.435	522.358	201.684	209.216	993	
24.474	18.744	12.046	19.31	14.48	24.969	27.244	993	
40.957	22.472	27.594	39.796	31.605	21.411	27.111	993	
70.853	93.745	97.916	112.64	64.062	61.282	68.645	993	
74.761	88.806	115.147	40.075	135.922	144.788	69.346	993	
65.471	23.623	118.987	31.133	109.456	59.05	50.663	993	
6.38	7.054	21.324	7.065	4.033	13.305	11.781	993	
1.782	2.922	5.251	10.376	3.022	5.911	6.488	993	
36.836	41.408	88.724	41.607	46.096	59.269	58.836	993	
9.822	11.349	15.216	19.087	12.009	14.89	19.458	993	
13.524	15.298	29.29	24.208	20.523	23.397	24.645	993	
15.779	23.15	16.396	33.339	20.27	25.442	24.213	993	
229.231	318.731	188.389	471.628	402.25	141.402	155.103	993	
107.668	60.72	173.14	140.991	364.488	88.499	109.213	993	
138.939	209.186	108.557	185.86	226.757	97.884	108.643	993	
25.013	79.786	38.53	67.511	62.139	36.057	41.126	993	
196.485	329.119	316.179	170.372	312.158	269.513	190.562	993	
69.48	75.235	90.911	75.992	145.208	73.163	71.114	993	
103.59	197.954	86.049	196.924	321.938	116.084	87.567	993	
138.32	147.091	94.315	128.291	177.866	89.921	85.863	993	map00195 Ph
124.301	335.189	1612.556	498.856	217.802	147.562	146.893	993	
73.763	85.466	56.943	143.779	225.667	39.868	57.444	993	
13.759	13.577	22.264	32.914	35.285	9.391	18.89	993	

58.706	45.43	34.172	55.355	64.809	21.411	24.288	993	
330.616	529.746	284.846	285.853	638.748	471.524	349.123	993	
191.846	271.517	159.402	430.515	334.572	116.08	133.029	993	
47.319	34.085	44.269	119.204	58.259	47.484	52.101	993	
21.599	25.567	16.27	75.073	50.255	19.901	10.107	993	
5.606	2.611	0.518	7.48	2.16	1.643	1.012	993	
227.778	316.995	187.897	469.496	401.224	141.179	154.783	993	
5.054	5.35	3.16	14.566	11.615	3.684	4.412	993	
5.586	8.014	1.622	18.274	11.953	2.794	5.494	993	
16.554	19.096	15.761	32.501	38.839	16.979	11.027	993	
25.32	31.337	23.499	67.792	62.421	34.641	24.96	993	
5.144	3.566	3.996	14.805	13.468	3.624	3.805	993	
18.275	11.827	16.418	24.284	25.008	12.053	13.243	993	
4.401	5.412	2.683	12.059	6.219	5.677	4.661	993	map00195 Ph
9.07	22.471	9.099	28.987	24.173	17.031	12.464	993	
3.309	8.289	7.658	29.505	13.509	19.48	13.63	993	
12.333	44.897	53.419	81.942	48.613	108.849	70.251	993	
13.643	13.078	21.464	18.52	19.901	18.248	19.228	993	
14.751	25.347	23.748	32.423	45.215	19.027	18.326	993	
5.173	8.97	16.98	17.133	19.117	15.398	16.857	993	
36.565	20.31	16.666	22.072	33.803	45.656	19.454	993	
5.446	5.891	11.375	14.213	5.558	63.564	20.429	993	
94.603	140.086	346.028	325.46	345.689	194.958	301.998	993	
781.146	767.931	292.855	231.778	695.886	682.271	544.292	993	
5292.254	6220.108	2314.937	3575.384	3315.708	10234.21	7424.707	993	map00195 Ph
6247.768	6778.654	2542.703	3319.458	4120.415	8808.832	6479.967	993	map00195 Ph
52.285	82.101	58.779	83.855	124.506	56.427	42.621	993	
47.393	53.655	60.967	72.186	95.594	58.458	35.419	993	
37.158	24.933	11.69	35.624	130.601	14.077	15.732	993	

181.814	167.932	230.271	198.628	277.187	159.261	135.781	993	map00190 O
186.664	151.751	192.315	185.232	316.928	136.671	119.779	993	
51.881	42.18	77.175	92.269	124.016	64.834	66.834	993	
24.742	32.662	29.317	21.068	48.311	27.415	23.992	993	
10.197	16.782	12.559	26.914	24.89	10.25	9.818	993	
62.705	58.427	22.173	45.872	51.905	22.091	21.975	993	
37.58	38.88	38.366	41.572	48.742	23.418	29.803	993	
60.057	87.082	64.409	79.899	80.15	47.922	45.991	993	
294.688	513.202	156.131	178.806	263.488	347.929	307.643	993	
325.257	566.633	496.613	305.838	462.146	278.707	276.547	993	map00190 O
229.231	318.979	188.389	471.628	402.25	141.402	155.103	993	
81.65	79.669	51.096	59.255	87.605	52.329	55.866	993	
53.348	55.833	37.035	50.72	50.704	40.408	37.199	993	
0.538	1.102	1.093	6.843	3.04	0.496	0.712	993	
29.808	32.949	112.766	47.852	66.946	56.216	125.61	993	
30.34	19.775	14.049	35.045	43.436	13.474	11.589	993	
18.301	32.69	28.66	28.261	29.895	21.194	23.118	993	
58.094	122.675	299.539	64.024	84.777	455.234	347.536	993	
61.418	112.988	124.804	108.47	187.463	170.303	149.039	993	
12.536	9.086	11.805	8.677	15.122	7.888	10.929	993	
700.238	399.671	149.141	545.092	2041.84	138.364	234.36	993	
143.084	232.165	62.742	187.398	134.387	193.889	187.15	993	
165.534	200.225	187.98	112.675	145.227	148.437	161.235	993	
298.164	275.765	221.403	133.477	245.626	238.018	257.94	993	
101.051	91.81	101.008	115.704	149.731	101.401	93.701	993	map03018 RN
91.816	80.399	96.679	112.559	144.84	74.293	81.11	993	
172.02	213.765	245.683	200.456	482.956	227.318	177.794	993	
171.517	144.099	99.937	137.315	324.675	127.305	122.895	993	
56.172	77.156	32.268	57.557	101.305	41.253	34.001	993	

41.363	45.719	35.1	64.128	124.451	25.336	28.303	993	
37.228	31.709	23.128	33.647	35.182	17.806	16.795	993	
3.56	4.394	2.713	11.164	1.829	2.311	2.142	993	map01110 Bi
606.419	433.785	200.54	283.557	611.988	225.518	260.047	993	
43456.751	45806.971	102106.937	52272.608	44391.765	28864.408	37670.957	993	map00195 Ph
52.776	58.691	44.061	78.07	139.903	39.58	27.623	993	
14.139	14.016	15.303	18.198	43	8.921	10.377	993	
61.818	83.952	65.079	50.291	55.78	69.998	74.939	993	map00195 Ph
114.138	84.275	100.921	111.696	219.877	119.755	121.549	993	
60.62	118.412	71.215	123.59	122.245	54.691	70.223	993	map03010 Ril
609.551	754.942	679.236	771.798	1151.773	621.041	599.555	993	
49.464	72.471	43.2	68.18	141.281	32.582	33.718	993	
50.258	67.836	49.142	57.248	139.556	36.971	32.374	993	
25.573	53.102	36.278	95.098	72.001	25.074	24.146	993	
10.735	15.529	11.228	24.1	35.246	13.527	11.077	993	
116.033	120.979	47.918	77.635	184.265	86.191	64.919	993	
745.658	1003.364	687.469	438.757	1169.889	776.15	712.405	993	
702.072	868.24	595.873	508.76	1018.329	707.875	642.755	993	
161.128	317.922	138.26	184.663	216.086	187.637	160.51	993	
6.549	13.746	10.625	25.635	28.658	4.866	8.111	993	
9.129	17.13	9.998	27.381	35.685	9.067	10.202	993	
78.669	82.101	32.218	72.959	84.486	26.541	23.394	993	
138.32	200.322	144.284	164.237	282.109	119.375	122.081	993	
16.463	25.702	13.049	75.577	64.796	6.512	6.618	993	
158.642	125.165	172.081	177.405	292.163	131.074	147.511	993	
54.664	96.794	55.772	98.259	167.416	71.862	39.061	993	
21.034	25.403	31.802	25.24	42.107	24.687	31.162	993	
2.818	3.665	1.542	8.91	5.514	2.097	1.435	993	
229.231	318.979	188.389	471.628	402.25	141.402	155.103	993	

30.8	18.988	9.159	32.591	82.446	10.844	11.934	993	
124.661	105.83	289.387	144.102	481.149	68.768	76.911	993	
123.273	255.106	48.084	258.326	331.571	65.539	74.285	993	
106.506	108.837	90.028	75.802	150.916	71.64	79.241	993	
72.339	85.287	105.564	86.917	83.67	91.614	83.936	993	
18.532	16.003	15.761	25.165	36.927	11.032	13.508	993	
135.327	159.812	60.542	146.777	155.361	147.326	85.357	993	
433.659	108.183	388.582	108.418	223.911	349.473	332.294	993	
134.897	140.247	158.568	99.249	169.749	141.077	162.947	993	
148.678	17.704	19.853	29.869	37.571	10.905	17.535	993	
324.236	219.801	200.786	102.769	390.813	131.303	164.997	993	
331.386	272.602	244.558	308.522	589.409	113.093	124.511	993	
19.019	20.198	25.999	36.547	41.046	15.931	20.601	993	
38.73	43.159	48.204	55.904	72.514	81.183	65.374	993	
11.032	22.767	8.854	46.116	25.981	11.19	8.059	993	
18.928	44.551	15.423	68.405	39.457	31.944	16.623	993	
23.165	43.952	31.719	75.713	54.6	54.445	61.097	993	
3.655	2.957	2.541	14.872	8.427	1.418	1.528	993	
3958.937	6955.825	2713.189	2131.161	5312.434	10077.814	7169.626	993	map00195 Ph
90.604	189.627	111.991	239.641	243.285	113.436	84.806	993	
70.464	156.016	75.193	93.913	122.745	109.424	83.167	993	
3.852	10.658	3.758	18.699	10.343	4.047	4.284	993	
121.164	163.293	89.494	170.29	287.321	67.281	67.653	993	
13.961	20.766	11.897	29.748	23.864	10.166	15.203	993	
138.533	136.231	95.065	184.22	322.842	91.1	90.222	993	
23.119	27.942	37.543	36.354	68.968	37.324	46.042	993	
225.949	304.723	157.481	259.558	369.413	97.622	79.432	993	map00190 O:
160.297	180.21	174.503	156.681	222.041	76.793	70.46	993	
1252.979	2299.982	33488.026	1482.224	229.857	18186.099	25344.573	993	

193.191	186.311	130.301	214.935	439.888	94.431	111.194	993	
221.888	181.345	292.393	204.243	272.879	185.612	236.786	993	
21.893	35.385	11.679	59.092	49.875	15.162	16.797	993	
203.04	170.85	98.867	135.874	219.185	96.617	108.444	993	
485.472	565.53	278.416	544.684	1000.796	293.418	304.816	993	map00195 Ph
117.811	163.328	51.834	112.548	119.596	82.601	82.767	993	
109.496	103.982	169.553	90.247	96.243	143.352	96.578	993	
17.791	21.579	30.619	29.136	40.533	23.753	27.399	993	
2884.332	3270.768	489.587	1915.368	2540.965	1948.696	1551.92	993	map00195 Ph
56.25	93.31	14.054	120.47	200.669	18.055	26.858	993	
350.727	239.348	250.003	198.744	475.25	298.604	232.957	993	
61.26	22.514	51.458	44.461	76.83	35.513	44.372	993	
38.042	38.022	36.558	49.699	52.168	23.483	28.035	993	
236.238	161.822	97.317	115.142	209.646	56.577	67.662	993	
83.563	108.059	43.413	95.988	244.788	50.812	52.667	993	
9.214	15.783	14.363	34.069	32.698	12.313	13.967	993	
4.328	8.082	15.636	25.225	21.746	7.976	8.659	993	
27.353	58.537	39.965	167.829	133.399	30.555	34.93	993	
1.497	2.509	1.521	6.923	3.749	1.254	2.342	993	
15.826	29.559	22.999	27.837	22.08	20.857	18.83	993	
1442.616	1805.667	491.082	1067.107	1013.145	1284.329	1040.684	993	map00195 Ph
702.768	970.686	304.816	620.272	550.138	899.583	692.197	993	
24.509	41.671	22.319	61.47	48.742	21.244	18.507	993	
10.123	19.618	8.272	30.364	21.767	10.746	7.283	993	
6.432	9.355	8.011	17.461	26.093	5.926	7.966	993	
13.506	23.888	17.106	60.834	48.366	11.421	13.472	993	
31.659	62.742	46.817	147.752	125.205	35.525	20.473	993	
689.126	1171.319	867.594	922.192	1474.495	988.373	616.273	993	
42.209	57.514	46.575	73.433	94.491	54.503	37.454	993	

155.635	230.401	146.652	326.017	538.917	131.176	136.493	993
66.986	50.418	84.02	50.76	98.426	48.612	53.367	993
112.815	103.12	108.72	83.076	205.759	59.053	41.681	993
8.064	16.25	10.224	25.502	23.943	12.974	7.435	993
174.283	178.589	87.245	71.998	111.753	382.117	145.962	993
176.321	191.991	104.761	95.749	109.456	483.783	205.995	993
241.813	253.285	113.727	181.055	152.68	447.313	229.018	993
247.851	236.82	150.321	186.316	199.22	428.054	213.122	993
97.37	94.484	128.342	101.943	112.894	101.931	108.398	993
165.995	87.434	88.939	87.671	165.745	72.219	96.191	993
7.128	15.521	13.398	45.69	18.886	6.732	7.314	993
151.119	215.512	146.816	269.503	262.382	121.284	119.747	993
13.517	16.503	29.513	80.774	36.982	20.139	23.987	993
87.531	86.238	84.98	257.353	293.368	72.884	76.224	993
71.352	97.689	213.247	120.554	117.033	153.72	191.685	993
104.513	131.412	206.492	96.796	92.286	130.758	150.428	993
1897.211	29.765	44.815	37.374	60.809	42.128	76.555	993
1924.779	73.998	114.976	94.555	245.705	93.859	192.544	993
71.092	69.246	66.168	66.628	115.817	56.042	60.99	993
115.252	153.048	36.367	207.048	296.06	28.318	26.547	993
2.477	1.846	1.83	8.153	4.136	0.415	0.596	993
228.747	317.987	188.389	471.391	402.25	141.402	155.103	993
135.614	186.292	72.834	104.227	215.172	136.7	84.236	993
20.402	45.356	24.594	30.118	42.512	18.48	12.361	993
34.955	61.043	25.511	59.742	93.919	43.548	35.848	993
166.919	193.541	139.942	172.822	301.003	119.746	114.825	993
47.913	37.129	55.678	70.038	135.832	40.284	44.402	993
111.083	49.428	11.984	36.178	136.073	46.228	62.694	993
12.551	11.575	5.83	32.637	23.057	4.13	5.934	993

72.618	49.876	71.987	63.958	93.74	57.325	51.707	993	
71.668	172.747	104.259	150.098	158.046	156.831	90.208	993	
62.281	195.482	85.081	198.723	194.876	124.657	79.682	993	
526.267	1366.027	759.341	789.562	1320.229	696.173	513.493	993	
10.582	15.823	11.849	19.866	33.874	11.143	11.008	993	
1802.641	1646.253	454.039	957.787	763.353	1475.559	1365.231	993	map00196 Ph
53.893	71.257	64.103	59.19	96.627	64.273	52.936	993	
97.164	114.882	93.198	70.648	110.896	72.309	81.633	993	
61.567	97.151	42.207	68.901	87.127	35.283	37.679	993	
132.341	91.102	57.094	151.957	245.7	67.41	76.012	993	
59.415	82.868	45.61	101.266	107.046	51.703	57.246	993	
45.955	73.301	44.93	101.823	104.146	50.332	47.639	993	
55.626	60.697	18.903	65.583	31.12	36.035	44.236	993	
87.401	82.119	113.571	110.403	170.414	97.258	104.379	993	
96.12	112.926	83.708	129.552	169.656	88.077	92.759	993	
40.666	35.26	34.204	39.213	70.515	25.529	26.426	993	
13.229	13.556	28.344	73.456	34.137	17.489	22.083	993	
249.56	207.934	180.816	160.144	419.709	116.856	154.363	993	
73.328	137.05	76.208	150.592	177.683	65.898	69.903	993	
47.393	38.594	64.391	58.619	120.388	55.448	63.847	993	
15.716	20.275	27.944	25.13	44.219	26.764	24.708	993	
1192.424	1549.294	393.501	769.677	1589.213	1001.926	972.232	993	map00195 Ph
40.915	177.616	28.539	241.139	117.855	95.299	22.426	993	
13.732	31.046	18.219	46.642	35.323	19.823	16.415	993	
4268.334	1892.992	39760.398	1507.675	1126.985	27084.318	33094.661	993	
6215.103	1652.326	32728.426	1217.927	978.436	25861.594	25492.975	993	
44.846	38.476	79.756	50.057	78.688	60.839	52.712	993	
15.768	59.955	13.07	52.993	52.48	103.614	138.989	993	
64.319	163.494	71.041	114.515	144.247	320.018	518.324	993	

31.087	50.233	29.584	50.313	75.135	34.735	24.302	993	
28.528	45.179	34.519	59.897	53.873	51.616	35.709	993	
24.374	42.498	32.696	40.482	35.793	39.583	41.127	993	
145.236	79.621	95.916	88.356	167.262	62.003	58.324	993	
737.351	442.655	512.56	334.79	688.659	374.693	363.19	993	
794.682	494.343	498.762	379.482	687.177	423.314	410.191	993	
35.783	26.314	33.505	31.996	69.996	33.358	29.91	993	
6.354	5.581	17.523	19.543	7.696	17.564	10.816	993	map00195 Ph
30.049	46.187	27.768	51.25	74.408	29.005	30.31	993	
124.86	161.707	78.407	153.583	221.158	119.838	101.591	993	
36.294	34.676	39.786	40.665	68.052	25.202	29.635	993	
149.08	186.467	164.706	156.759	235.712	111.581	174.18	993	
22.173	23.971	25.795	35.695	34.936	16.446	19.374	993	
205.085	141.832	66.354	116.659	208.397	102.654	61.038	993	
102.824	96.84	96.158	97.154	201.761	66.972	85.216	993	
34.525	42.819	38.056	122.554	81.372	37.211	25.468	993	
7.619	6.099	3.145	17.941	13.458	4.168	5.359	993	
118.586	107.437	165.083	67.59	106.719	104.166	121.714	993	
628.562	1149.603	562.19	2172.46	1875.999	427.343	458.943	993	map03010 Ril
61.191	75.998	88.238	79.361	79.175	55.43	86.671	993	
75.678	99.613	33.605	63.749	121.386	88.57	44.198	993	
6.902	4.715	5.747	15.385	41.859	3.445	2.792	993	
25.058	12.775	11.653	37.453	152.205	11.027	18.32	993	
4.877	12.275	13.141	13.175	9.438	15.824	14.596	993	
30.325	69.054	94.322	32.633	56.643	96.028	81.987	993	
2571.616	4305.397	3376.322	7193.923	3276.88	1672.255	1265.155	993	
177.254	297.14	115.367	301.053	563.915	130.321	153.603	993	
37.142	36.108	37.092	39.299	78.279	39.049	32.572	993	
8.031	11.206	13.888	27.422	18.108	9.289	9.501	993	

170.575	140.38	117.213	160.877	227.936	190.953	176.186	993	
55.371	43.252	69.17	95.492	83.374	71.928	62.49	993	
751.846	1020.726	802.691	1117.787	1579.382	441.718	473.731	993	
229.231	318.979	188.389	471.628	402.25	141.402	155.103	993	
29.228	32.538	80.594	33.663	57.702	64.776	98.089	993	
172.801	142.749	92.754	159.241	325.854	90.669	92.607	993	
153.95	153.884	104.474	161.173	304.561	109.196	122.673	993	
98.732	97.165	56.187	144.998	281.204	63.821	67.852	993	
43.571	49.975	46.455	80.539	126.685	36.346	48.188	993	
73.394	72.708	59.814	113.702	193.95	51.587	57.977	993	
23.668	54.569	35.524	60.536	102.615	37.668	43.44	993	
2.266	5.066	1.256	6.854	4.075	2.088	1.364	993	
33.516	29.765	29.513	34.111	46.729	27.999	18.34	993	
11.211	15.927	9.061	20.072	18.723	7.395	12.818	993	
48.902	32.779	38.945	42.908	69.882	43.449	40.524	993	
234.222	162.525	174.733	148.445	355.08	141.466	166.03	993	
34.922	55.851	29.513	105.079	201.079	35.485	36.727	993	
69.713	44.25	84.209	68.032	146.671	60.486	63.58	993	
69.77	75.871	43.98	82.211	179.878	48.542	32.8	993	
10.991	14.748	7.179	20.999	32.911	6.751	6.409	993	
14.728	19.144	10.115	17.082	34.879	6.031	5.236	993	
20.406	30.173	7.902	25.108	25.36	12.188	7.92	993	
683.351	1355.709	1762.568	1235.164	1439.003	862.302	745.53	993	
184.45	183.797	140.923	81.724	140.582	236.859	221.119	993	map00195 Ph
23.864	23.466	20.328	48.949	60.291	13.326	16.754	993	
2462.039	3421.161	1173.223	2029.397	3557.038	2137.713	1651.275	993	
5.491	11.434	8.458	26.346	33.788	5.385	3.986	993	
45.864	36.031	38.638	38.15	82.632	29.933	35.925	993	
7.13	10.553	7.512	17.055	27.613	8.516	10.488	993	

104.483	136.533	90.887	111.157	123.955	79.892	74.806	993
11.38	16.882	15.527	23.016	30.478	10.186	9.901	993
39.094	21.932	23.743	23.724	45.984	16.903	19.951	993
21.673	29.611	20.185	38.883	65.716	19.969	22.316	993
15.206	9.189	18.619	14.308	20.11	21.375	20.131	993
246.347	235.619	164.459	179.993	326.331	149.959	169.82	993
56.19	32.204	71.12	60.346	133.904	45.849	36.564	993
82.715	49.324	120.58	91.503	226.339	82.84	68.121	993
184.807	144.51	88.253	174.81	424.538	70.206	55.918	993
66.016	67.79	90.797	48.283	77.968	89.511	82.983	993
27.466	35.029	24.694	41.768	61.15	20.391	21.451	993
63.254	74.412	73.587	90.981	123.948	64.18	58.948	993
395.665	203.14	137.892	308.667	1035.887	211.389	333.063	993
997.057	419.229	299.628	578.629	2252.237	604.862	844.976	993
665.851	882.067	3025.038	530.793	3664.136	1098.345	588.664	993
17.614	16.466	43.327	16.33	23.143	16.514	27.41	993
45.084	66.041	71.937	38.493	60.714	73.322	53.277	993
371.498	453.39	198.692	322.032	858.903	193.685	178.278	993
26.142	40.599	24.554	57.874	49.748	24.409	20.92	993
172.29	216.232	107.345	136.276	254.726	401.194	230.732	993
125.531	157.499	75.487	170.839	226.268	77.602	71.886	993
34.328	41.005	23.321	35.979	58.842	18.154	20.707	993
63.823	48.857	67.844	57.191	98.772	54.114	48.414	993
7.716	10.697	10.145	18.654	25.333	20.909	15.022	993
108.804	230.551	160.068	152.246	208.012	163.304	144.045	993
6.843	11.448	7.236	21.456	13.222	11.58	7.95	993
83.32	159.006	86.596	207.582	214.951	77.474	93.103	993
24.719	62.173	28.075	99.042	68.331	24.617	24.241	993
129.69	213.803	157.955	136.923	245.697	133.065	141.906	993

243.306	207.617	262.034	202.849	342.997	212.653	201.51	993	
31.868	20.455	39.653	32.911	35.565	28.488	31.382	993	map00500 St
175.2	351.224	444.863	378.21	550.879	101.702	80.959	993	
5702.967	6115.251	3709.927	5413.116	2960.557	7029.814	5175.658	993	map00195 Ph
60.813	112.344	39.98	86.957	94.021	47.542	47.51	993	
41.284	95.63	18.126	75.886	68.713	21.482	30.185	993	
35.552	85.732	52.188	89.777	89.699	33.274	44.246	993	
7.208	11.355	7.815	23.267	12.846	4.609	7.264	993	
6.692	12.969	4.533	21.165	11.032	4.423	5.2	993	
54606.579	23019.195	38039.938	33633.87	37588.257	46504.646	66784.305	993	
316.336	441.579	503.331	288.15	552.714	469.649	391.402	993	
34.902	43.147	50.332	45.172	45.819	31.328	33.09	993	
328.516	583.969	163.233	852.013	1066.83	197.531	195	993	
358.687	566.36	249.674	390.827	404.023	402.949	208.356	993	
15.985	17.436	13.97	26.407	44.446	12.986	11.832	993	
23.506	21.218	24.89	26.085	57.86	17.251	18.996	993	
40.219	47.408	77.454	67.655	82.649	63.216	63.164	993	
14.704	34.828	19.716	43.641	38.661	16.325	13.084	993	
3.162	4.86	4.216	9.088	4.188	4.916	8.633	993	
295.93	352.982	168.954	269.375	238.011	759.445	467.401	993	
133.959	158.629	83.677	113.034	109.134	410.273	252.448	993	
4.71	4.223	3.589	8.835	6.656	4.883	2.598	993	
73.482	116.807	82.476	127.377	239.397	80.291	85.018	993	
65.725	59.53	95.541	45.047	118.964	81.879	87.665	993	
93.317	140.621	317.202	88.634	138.651	246.985	190.46	993	
12.115	13.387	11.568	26.64	28.67	13.987	13.817	993	
38.73	19.843	36.481	48.955	90.073	24.533	25.637	993	
86.811	109.25	90.215	116.61	190.77	90.632	87.836	993	
31.677	20.302	14.786	27.453	22.629	16.801	16.713	993	

166.934	120.493	124.451	77.4	102.862	168.322	151.968	993	
486.64	422.007	349.299	364.471	1211.135	486.514	288.152	993	
41.518	33.661	25.032	35.123	69.842	22.7	19.731	993	
796.563	1980.73	758.7	1919.164	1821.175	639.449	758.459	993	
15.458	28.07	20.089	52.207	63.499	13.978	22.178	993	
23.677	33.767	23.56	29.859	49.324	19.792	25.206	993	
13.597	10.766	6.656	22.136	31.265	7.972	8.346	993	
17.767	27.742	17.192	46.64	37.459	21.827	17.548	993	
219.659	113.599	175.591	123.458	256.112	120.754	135.504	993	
268.873	301.654	503.795	253.461	270.482	343.64	326.871	993	
17.075	21.821	6.979	30.346	18.998	7.866	5.327	993	
15.013	18.561	43.606	15.81	17.064	31.876	27.869	993	
27.586	38.747	20.519	66.354	89.621	17.103	19.569	993	
4.89	8.519	4.074	18.376	14.926	4.776	3.496	993	
20.524	22.769	17.018	37.306	26.365	11.487	8.477	993	
323.247	371.184	347.996	275.439	436.579	285.528	248.418	993	
161.777	98.596	38.325	126.731	236.869	36.614	46.467	993	
141.191	83.266	1026.215	71.964	114.825	346.913	291.58	993	
491.161	500.396	412.409	227.774	474.16	656.06	757.621	993	
55.423	56.621	95.661	59.628	66.287	55.527	52.158	993	
11.152	9.036	9.838	17.428	20.645	9.558	12.132	993	
19.419	33.33	20.47	39.511	29.727	14.687	16.175	993	
27.688	16.846	23.359	43.425	27.771	30.067	48.437	993	
10.998	11.848	14.326	12.695	3.985	4.677	9.334	993	
14.004	17.333	18.595	42.265	32.033	13.478	15.052	993	
18.864	45.331	14.756	50.48	46	13.536	18.565	993	
35.138	37.286	39.985	40.804	52.08	28.634	20.882	993	
32.08	58.932	36.861	68.381	42.694	27.409	31.506	993	map00860 Pc
5.164	5.292	4.263	21.161	11.858	2.379	2.136	993	

5.416	5.766	4.288	6.263	3.18	15.812	10.615	993	
5.33	5.279	5.144	21.297	8.159	6.138	5.41	993	
5.497	9.516	8.227	18.902	10.078	6.708	5.704	993	
3.947	6.632	4.331	15.835	5.912	4.509	3.553	993	
55.014	29.878	47.511	43.284	49.597	46.228	43.262	993	
45.331	57.726	52.765	71.495	70.897	44.606	47.778	993	
4.572	4.685	4.099	20.003	4.751	4.585	4.629	993	map02020 Tv
10.481	11.66	13.691	19.927	16.926	9.381	13.479	993	
2.258	8.174	1.07	13.697	2.552	1.664	1.594	993	
26.341	107.227	2.2	24.894	30.083	6.816	14.331	993	
13.517	14.44	12.857	31.521	26.009	12.454	12.945	993	
10.374	19.371	37.008	17.597	19.546	43.119	32.962	993	
8.652	8.022	4.395	11.491	9.315	6.264	4.909	993	
8.895	9.827	12.144	19.585	16.301	19.144	10.58	993	
0.398	1.019	1.213	5.841	0.562	0.55	1.317	993	
12.197	18.911	17.61	26.384	36.737	15.23	19.971	993	
196.604	278.535	179.25	441.345	334.416	141.707	147.75	993	
134.447	198.148	80.106	332.173	202.884	62.704	86.799	993	
4.072	3.894	4.413	23.112	4.987	3.252	5.75	993	
71.789	348.388	73.012	136.344	194.433	161.977	81.682	993	
19.918	16.371	35.415	97.865	46.616	24.852	24.721	993	
1017.327	1586.531	1477.001	838.445	525.642	1156.859	1290.194	993	
1031.713	1358.89	1772.576	915.234	792.034	1246.003	1343.565	993	
42.393	87.685	17.548	46.096	82.092	52.081	43.652	993	map00195 Ph
7.036	5.916	3.3	7.945	7.903	14.961	5.732	993	
27.304	22.423	18.298	22.361	29.006	44.785	14.869	993	
16.758	25.186	17.026	26.239	31.179	23.161	15.9	993	
25.788	33.104	15.404	54.633	92.503	12.664	15.007	993	
201.801	240.356	142.903	170.554	295.654	206.061	177.531	993	

11.277	9.853	231.293	18.129	14.227	14.194	11.863	993	
181.733	215.91	88.308	185.135	193.745	89.652	101.518	993	
11.551	9.399	15.878	19.449	25.924	10.486	12.144	993	
27.048	33.863	18.713	34.399	56.066	17.358	19.924	993	
2.501	6.505	2.736	21.178	13.591	5.672	3.056	993	
7595.714	7871.977	14434.236	10690.92	5903.749	7101.122	9477.46	993	map00195 Ph
393.52	290.206	549.145	244.325	869.782	387.756	252.707	993	
216.965	328.141	94.32	535.561	413.14	125.517	88.997	993	
13.529	17.049	14.543	26.891	25.649	18.169	11.644	993	
26.089	37.482	39.077	43.691	39.906	37.668	28.485	993	
41.398	58.123	39.04	65.356	92.757	36.563	36.487	993	
58.094	87.276	45.769	81.663	119.659	68.497	56.054	993	
39.113	68.96	75.096	67.265	94.284	60.417	50.259	993	
4432.012	6055.386	5417.754	4260.512	7363.372	9045.02	7867.812	993	
35.94	65.962	40.517	73.714	92.875	57.27	39.596	993	
71.886	37.831	40.487	56.075	99.855	29.912	40.637	993	
39.247	42.261	38.411	57.719	89.455	31.769	35.226	993	
14.82	11.541	15.66	12.472	23.036	10.378	11.38	993	
1598.449	2094.213	608.48	767.825	1518.215	1216.178	1038.748	993	map00196 Ph
901.059	1017.098	243.378	674.426	894.295	555.074	451.983	993	
478.941	587.912	139.556	361.6	476.005	325.315	265.611	993	map00195 Ph
128.539	141.558	176.03	136.085	153.68	110.848	120.06	993	
25.253	37.479	30.657	29.296	52.187	20.701	22.367	993	map00500 St
41.9	69.407	118.964	76.347	118.234	63.475	79.633	993	
12.057	6.458	11.972	30.839	33.301	13.634	14.511	993	
125.797	100.159	123.549	82.575	157.161	98.609	105.716	993	
54.756	35.581	42.742	34.633	63.22	40.915	45.97	993	
23.469	44.431	36.463	79.509	58.446	30.74	25.916	993	
13.689	16.08	9.329	28.262	20.995	14.459	7.293	993	

3.57	3.658	2.308	11.593	7.567	3.439	2.148	993	
125.609	113.026	82.157	107.556	171.394	84.993	91.358	993	
29.895	32.806	11.417	34.443	58.123	17.777	16.28	993	
123.247	175.529	99.295	154.88	251.262	146.325	117.882	993	
88.483	106.635	59.811	114.258	229.434	73.684	73.837	993	
16.075	8.958	19.197	8.279	15.94	13.772	17.548	993	
386.976	189.658	287.565	159.277	659.448	285.775	261.878	993	
46.318	77.026	20.539	219.914	135.341	50.996	61.581	993	
599.999	1320.484	181.089	1426.964	1621.97	495.986	606.057	993	map00196 Ph
25.444	23.766	9.151	26.222	27.046	10.374	8.645	993	
131.914	38.56	62.723	84	99.849	45.239	62.82	993	
35.837	36.723	44.077	44.423	40.691	32.789	31.963	993	
11.038	15.875	6.493	17.245	28.458	19.984	15.895	993	
5.446	8.371	4.765	13.028	8.979	3.345	3.004	993	
36.907	43.422	31.249	59.527	99.476	26.134	27.597	993	
65.187	36.687	109.128	36.028	171.343	43.258	50.529	993	
30.984	13.791	20.954	29.278	49.666	10.973	19.484	993	
23.841	15.163	11.694	29.498	44.918	5.302	11.609	993	
600.975	58.152	15.622	110.302	227.096	31.416	32.553	993	
197.574	46.91	9.656	92.612	598.287	9.62	11.342	993	
392.764	48.85	9.02	101.048	771.827	32.01	60.558	993	
95.456	53.249	22.635	48.245	137.749	35.603	36.409	993	
6599.225	8610.492	1728.166	3827.919	5280.893	7221.14	5608.404	993	map00195 Ph
6175.005	9602.401	1766.435	4316.529	3935.401	9873.878	6616.206	993	map00195 Ph
65.469	52.59	45.11	58.177	82.73	25.238	29.489	993	
67.085	75.829	59.376	109.303	139.752	46.837	54.936	993	
2.188	1.019	1.819	5.451	3.655	1.833	1.58	993	
3.245	3.991	19.95	13.498	3.44	11.363	15.253	993	
9.825	22.324	9.548	24.245	56.74	9.446	6.221	993	

1.48	2.633	1.662	11.965	4.842	1.722	1.546	993	
0.289	0.444	0.44	4.738	1.634	0.333	0.574	993	
0.864	0.664	0.329	5.601	0.763	0.298	0.143	993	
63.365	94.155	57.835	78.056	106.504	90.921	79.159	993	
67.085	108.252	63.417	84.769	134.376	119.481	91.789	993	
89.366	126.405	94.817	159.002	294.832	144.126	94.338	993	
25.935	24.45	21.08	34.009	30.418	15.294	23.348	993	
245.047	195.054	256.508	84.37	242.782	190.478	148.912	993	
27.518	30.548	29.901	42.077	66.97	25.531	24.035	993	
219.041	198.993	216.054	140.34	283.965	133.146	163.98	993	
15.227	22.872	26.841	45.062	64.291	14.143	17.649	993	
110.789	175.536	69.241	122.084	197.336	136.049	87.264	993	
78.502	188.052	35.415	213.994	255.327	60.39	64.487	993	
58.658	38.669	72.105	47.323	38.999	40.85	39.84	993	map00195 Ph
9.533	11.601	10.14	18.95	12.63	8.51	6.902	993	
142.473	190.34	130.127	132.544	290.397	122.712	130.106	993	
102.058	103.506	288.745	85.533	111.674	227.372	226.575	993	
40.134	52.486	26.809	75.512	114.991	42.699	27.3	993	
54.169	82.859	32.863	127.224	176.386	28.644	24.736	993	
29.655	66.006	19.387	92.889	96.861	20.157	17.699	993	
84.974	97.069	68.496	91.429	173.067	56.723	53.665	993	
165.823	128.884	126.646	150.407	309.239	138.236	139.634	993	
239.358	324.413	181.193	572.258	249.775	423.864	324.039	993	
100.548	151.113	81.954	296.938	168.92	195.787	156.78	993	
19.411	23.699	13.847	30.581	27.818	11.67	11.482	993	
4.357	5.953	6.394	15.16	10.946	4.461	6.409	993	
54.589	54.911	95.153	82.336	93.415	65.987	102.106	993	
9.874	10.823	8.12	27.902	25.829	7.16	8.06	993	
31.245	122.438	105.767	107.556	122.028	74.939	60.281	993	

1.4	7.889	4.978	15.411	3.462	6.127	2.317	993
1.002	0	0	19.114	2.831	0	0	993
15.613	25.3	32.095	22.385	32.837	28.771	35.571	993
2.082	5.139	2.115	16.111	11.899	3.661	2.505	993
3.966	8.866	3.14	15.926	10.48	2.325	2.932	993
0.273	1.68	0.833	6.683	2.187	0.252	0.844	993
3.09	3.8	1.57	8.467	3.493	0.854	1.636	993
0.38	0.13	1.029	5.574	3.398	0.7	1.759	993
6.99	7.481	4.892	19.761	11.414	3.578	3.702	993
3.993	7.28	6.449	16.496	9.564	5.771	7.235	993
8.892	19.438	17.165	38.288	25.13	20.756	13.734	993
39.661	54.95	34.904	70.244	86.039	85.438	70.995	993
157.466	109.66	53.589	128.663	62.649	58.458	66.791	993
140.767	98.453	42.629	90.622	56.131	58.789	65.078	993
99.406	86.483	36.727	72.485	33.521	52.635	50.633	993
175.261	141.383	76.761	102.223	104.193	85.052	91.701	993
7.706	11.541	12.648	22.915	37.276	15.84	20.405	993
6.822	10.592	4.936	20.738	26.001	7.429	7.253	993
1.9	3.338	2.758	12.22	4.028	1.126	1.438	993
975.699	981.261	647.825	915.211	537.634	1200.86	863.04	993
14.844	22.065	12.662	43.49	41.823	15.366	16.741	993
6.831	9.235	10.674	27.414	24.498	8.516	10.184	993
62.307	98.61	48.437	64.663	109.038	57.614	44.914	993
0.395	2.227	2.61	13.343	5.305	1.639	1.046	993
27.664	22.205	45.44	27.523	38.44	31.862	46.085	993
8.408	6.07	7.378	31.418	30.514	6.515	8.349	993
21.186	30.584	54.287	88.145	86.611	51.932	74.088	993
26.053	45.414	23.123	65.056	56.279	16.831	17.444	993
12.506	23.15	4.099	21.319	32.495	4.461	6.409	993

0.83	1.531	1.855	6.66	7.271	0.918	1.978	993
12.103	19.843	30.052	22.244	42.13	20.127	23.761	993
6.493	7.003	12.847	7.692	79.194	5.668	13.572	993
107.348	161.765	126.519	123.342	300.17	107.753	121.051	993
5.076	8.669	8.309	37.257	23.113	9.614	10.081	993
7.706	12.149	9.878	23.321	17.926	6.991	8.162	993
11.296	14.469	8.198	45.402	22.803	12.267	17.625	993
8.299	27.639	34.783	40.608	24.334	20.646	25.545	993
14.477	17.973	32.341	26.518	18.097	16.845	20.763	993
0.271	0.556	0.276	13.283	1.151	0.5	0	993
37.369	141.262	120.443	127.377	157.306	94.614	68.18	993
1.4	9.324	4.978	13.699	2.967	6.127	1.853	993
5.314	7.623	6.838	20.106	7.508	5.549	11.255	993
26.627	24.184	19.06	17.766	30.784	15.891	20.83	993
3.32	5.528	6.746	8.528	4.105	4.97	1.648	993
16.365	28.926	49.465	24.822	17.921	45.612	38.455	993
35.568	52.24	42.161	47.569	39.789	30.041	40.81	993
0.421	0.431	1.283	7.415	4.759	0.388	0	993
34.618	45.463	47.907	50.816	51.729	41.429	47.674	993
6.214	11.847	9.103	19.516	15.316	8.788	8.801	993
69.621	149.769	33.729	102.422	123.138	32.286	32.351	993
8.938	22.133	9.459	33.528	26.311	10.637	7.888	993
10.988	16.29	20.071	21.677	27.915	16.155	17.642	993
103.679	81.256	98.016	101.046	95.574	77.752	92.349	993
19.237	19.909	23.845	41.603	31.532	31.549	26.486	993
1.537	1.26	1.093	6.918	1.955	3.257	2.747	993
85.345	85.305	40.466	77.364	115.521	49.941	66.207	993
33.634	34.464	33.862	38.3	79.499	30.426	33.193	993
19.768	38.033	24.184	50.929	39.336	27.136	35.251	993

50.009	64.746	113.182	66.229	63.896	74.497	70.171	993
14.524	18.19	9.838	52.508	17.102	24.162	21.364	993
0.775	1.984	1.574	14.023	1.642	3.212	1.538	993
39.223	40.571	19.55	57.575	56.732	24.377	26.943	993
17.632	28.259	10.45	37.827	27.311	13.017	10.624	993
20.484	44.217	17.912	50.854	64.653	29.626	21.117	993
4.916	7.785	3.632	13.994	6.946	4.529	1.183	993
4.699	7.879	4.123	15.258	10.865	1.968	3.959	993
2.538	1.445	1.146	9.383	3.985	1.299	0.373	993
5.379	3.583	11.204	15.266	9.881	6.195	5.341	993
17.041	22.224	41.711	23.119	42.14	27.834	34.866	993
5.417	11.619	6.169	19.95	9.168	7.733	4.807	993
14.172	26.067	10.911	37.729	19.279	14.193	10.721	993
3.531	6.77	2.662	17.055	4.024	4.093	3.016	993
388.997	223.638	204.594	264.665	309.508	205.43	270.747	993
39.18	12.114	26.081	67.759	27.682	13.693	24.146	993
49.941	10.444	22.264	90.762	38.165	15.025	20.24	993
75.897	30.245	42.841	109.118	74.147	25.037	37.215	993
25.82	7.087	13.117	55.498	20.197	8.496	14.039	993
11.819	14.719	13.994	46.264	14.453	16.754	14.624	993
2.997	5.669	3.045	7.896	4.561	4.461	3.662	993
7.895	8.395	5.448	28.426	27.364	7.412	8.283	993
5.879	7.441	4.216	19.458	19.79	4.62	3.434	993
14.014	12.794	10.096	30.171	27.364	11.034	10.457	993
0.947	0.971	0.962	4.944	5.8	2.618	1.254	993
126.467	169.43	165.27	207.725	445.19	222.345	221.266	993
4.362	4.283	4.462	24.246	10.443	3.991	4.05	993
90.6	86.105	49.539	68.357	76.717	40.783	50.358	993
12.644	21.01	6.25	53.507	50.704	12.595	7.691	993

29.941	38.771	17.253	65.014	74.093	15.372	13.805	993
16.879	21.72	16.352	32.267	33.28	25.317	14.031	993
68.808	48.063	70.153	63.026	62.074	65.703	53.743	993
11.383	11.262	13.56	36.108	17.75	10.489	12.992	993
2.787	4.51	8.943	25.411	12.645	6.894	3.69	993
1.632	1.003	0.995	17.886	2.306	3.609	0.432	993
4.841	4.41	6.012	30.531	10.642	3.717	4.629	993
1.434	1.102	2.186	7.721	4.561	1.983	2.849	993
17.945	17.142	21.632	32.593	25.788	13.452	23.959	993
1.444	2.631	2.609	10.208	6.123	3.845	3.399	993
3.227	7.559	6.793	21.658	8.144	5.735	5.188	993
23.189	46.148	27.653	28.903	33.975	46.78	27.791	993
38.538	72.202	73.635	68.109	77.215	82.676	47.213	993
29.317	36.687	49.142	60.553	39.71	66.1	50.797	993
21.494	45.175	19.117	62.294	54.825	27.396	24.001	993
15.07	27.284	11.345	49.21	22.178	53.312	24.81	993
31.492	53.846	24.433	67.814	37.488	98.145	45.944	993
24.855	40.658	18.559	46.448	21.581	80.567	33.302	993
20.471	80.79	20.799	56.851	83.265	71.37	32.229	993
8.133	38.337	11.097	31.609	41.046	41.323	14.459	993
69.713	75.059	138.581	92.692	129.562	112.873	93.631	993
43.424	58.026	86.451	49.386	65.093	96.782	74.58	993
18.918	23.331	17.605	22.036	21.174	21.365	24.713	993
2.458	0.458	0.908	45.262	5.999	4.323	2.366	993
3.317	6.592	8.17	17.606	8.806	7.038	4.258	993
1.178	0.402	7.976	17.67	4.992	3.617	4.677	993
20.361	37.996	26.381	61.421	93.574	23.924	24.483	993
10.54	16.136	16.19	29.653	36.702	19.538	18.771	993
3.268	4.93	5.534	22.207	16.162	5.604	5.288	993

2.675	3.133	1.942	9.351	2.7	2.465	3.036	993
21.565	53.892	29.513	84.415	14.304	72.992	27.676	993
2.745	2.109	3.486	10.52	1.939	3.793	1.211	993
8.738	14.519	20.395	24.497	9.677	37.643	25.324	993
49.827	38.236	56.074	42.857	77.987	54.145	46.146	993
4.631	2.804	10.051	19.568	8.626	5.818	5.295	993
0.998	1.125	1.724	10.452	1.411	2.851	2.247	993
2.359	3.324	2.397	17.026	2.5	2.581	1.952	993
10.651	26.259	12.067	58.178	32.016	24.623	26.748	993
40.12	39.96	29.35	72.87	82.545	38.297	44.404	993
233.346	322.7	192.569	480.866	409.091	144.301	157.667	993
43.775	50.446	27.157	55.383	53.186	29.779	34.845	993
58.094	79.869	39.842	72.485	85.512	61.111	41.019	993
123.637	132.797	71.637	105.928	152.256	96.075	78.883	993
35.321	42.147	32.818	34.793	54.181	30.618	30.457	993
42.212	32.977	28.451	26.176	50.791	31.577	25.176	993
28.665	23.107	25.241	24.311	48.607	25.707	18.722	993
19.433	16.14	16.211	33.63	22.835	16.398	14.353	993
154.538	68.392	146.236	69.467	88.779	143.592	140.211	993
34.463	56.447	45.186	41.166	104.818	45.917	29.548	993
7.464	12.609	10.555	19.839	12.043	9.618	8.879	993
0.454	0.465	0.461	11.992	1.924	0.418	0.601	993
3.209	6.576	2.574	19.997	5.25	4.668	3.13	993
19.626	24.134	28.316	32.267	32.171	24.232	23.905	993
4.586	5.222	7.249	10.223	8.641	6.808	6.747	993
5.242	3.581	2.219	23.296	8.641	7.244	4.337	993
2.421	2.48	4.216	14.044	4.642	6.213	3.662	993
10.197	18.682	18.838	33.264	20.086	16.799	16.364	993
6.855	5.715	5.194	13.758	6.403	8.886	7.999	993

10.252	8.317	9.548	46.401	21.73	5.904	11.876	993
233.104	321.459	192.324	480.156	407.723	143.855	157.667	993
5.362	5.917	7.423	15.741	10.157	8.143	5.46	993
233.104	321.459	192.324	480.156	407.723	143.855	157.667	993
2.168	1.777	1.321	3.818	1.838	2.796	0	993
1.4	8.248	4.978	15.754	3.462	6.772	2.317	993
14.141	72.454	55.919	56.851	64.809	45.076	32.889	993
47.842	183.091	155.995	163.387	197.296	125.273	92.099	993
21.537	67.904	71.481	115.756	68.046	58.412	36.116	993
28.878	37.206	26.51	67.511	47.012	26.297	14.756	993
5.919	9.098	9.466	42.799	10.533	8.181	8.707	993
24.86	67.708	87.474	82.204	78.764	90.659	64.785	993
9.962	24.661	15.24	47.54	18.111	35.376	18.227	993
6.641	10.43	11.729	46.526	12.717	17.271	13.969	993
9.261	18.01	13.527	74.978	21.713	25.94	19.088	993
7.543	11.631	5.932	48.973	13.375	17.074	14.451	993
16.137	21.083	11.477	60.799	19.953	21.188	22.966	993
4.841	4.961	12.073	36.609	6.841	6.083	7.575	993
0	0	1.213	14.797	1.125	0	0	993
2.624	7.297	1.714	13.571	4.237	2.072	1.24	993
13.858	7.157	12.165	81.913	15.823	4.597	6.311	993
29.456	16.769	15.38	25.623	23.124	10.555	12.999	993
2.905	0.992	3.443	16.108	1.368	2.23	3.205	993
2.702	0.692	0.343	25.12	1.432	0.934	1.341	993
0.454	0.93	1.383	19.987	0.641	0	1.202	993
2.186	1.76	4.125	25.98	1.765	3.597	2.481	993
6.649	5.738	14.223	62.331	14.094	6.61	9.035	993
35.016	75.431	90.963	130.446	112.455	64.526	50.045	993
7.016	10.399	9.574	43.424	13.462	8.063	8.911	993

17.266	24.145	21.67	48.304	23.824	18.154	18.286	993
11.917	30.91	8.702	48.469	33.679	18.529	13.805	993
77.363	167.685	57.856	132.559	151.992	51.143	49.497	993
9.44	41.299	11.989	55.785	22.062	10.706	14.661	993
5.64	15.894	8.023	48.296	14.346	5.976	10.827	993
59.803	103.301	126.296	73.99	67.001	158.221	85.959	993
51.979	79.112	72.228	97.993	69.13	68.67	54.647	993
12.215	18.978	12.652	36.429	14.167	11.352	10.967	993
4.574	6.094	5.112	22.159	6.141	3.372	3.331	993
16.724	10.824	61.037	38.116	6.219	9.327	10.779	993
44.478	60.227	306.885	55.741	38.16	35.964	49.271	993
39.869	56.806	294.933	40.873	26.023	41.982	49.012	993
19.849	44.895	19.921	76.512	60.201	20.073	21.15	993
25.935	51.481	31.319	75.705	55.705	26.218	29.626	993
0	1.294	2.139	13.595	0.595	0.388	1.672	993
1.4	8.248	4.978	16.096	3.462	6.772	1.853	993
34.229	132.896	115.498	118.619	137.781	88.827	64.855	993
21.537	67.904	71.481	115.756	68.046	58.412	36.116	993
28.878	37.206	26.51	67.346	47.012	26.453	14.756	993
5.809	9.098	9.466	42.692	10.533	8.181	8.707	993
24.86	67.708	87.474	82.076	78.764	90.659	64.785	993
9.962	24.603	15.24	47.54	18.111	35.324	18.227	993
6.703	10.43	11.729	46.343	12.717	17.213	13.969	993
9.261	18.01	13.527	74.978	21.713	25.94	19.088	993
7.543	11.631	5.932	48.973	13.426	17.107	14.451	993
16.137	21.083	11.477	60.799	19.953	21.188	22.966	993
4.841	4.961	12.073	36.609	6.841	6.083	7.575	993
0	0	1.213	14.797	1.125	0	0	993
2.624	7.297	1.714	13.571	4.237	2.072	1.24	993

13.858	7.157	12.165	81.913	15.823	4.597	6.311	993
29.456	16.769	15.38	25.623	22.546	10.555	12.999	993
2.905	0.992	3.443	16.582	1.368	2.23	3.205	993
2.702	0.692	0.343	25.12	1.432	0.934	1.341	993
0.454	0.93	1.383	19.987	0.641	0	1.202	993
2.186	1.76	4.125	25.98	1.765	3.597	2.481	993
6.474	5.738	14.045	62.502	14.094	6.61	9.035	993
35.016	75.431	91.368	130.446	114.141	64.893	49.518	993
9.698	19.202	13.074	47.223	21.933	11.597	10.787	993
11.619	21.554	18.318	55.087	22.08	16.427	16.443	993
15.514	33.824	8.72	38.762	41.512	18.552	8.74	993
13.448	14.056	15.576	55.272	16.722	12.638	16.023	993
32.387	37.484	13.809	97.437	37.205	9.231	12.133	993
8.457	6.405	13.075	11.874	10.911	10.502	7.302	993
4.082	7.884	4.148	19.821	6.656	7.089	4.989	993
0.497	0.582	0.433	5.699	1.305	0.393	0.376	993
3.012	5.181	2.405	12.318	3.344	1.784	1.709	993
114622.687	43299.372	113506.51	51590.163	84002.111	85253.334	133028.609	993
14.131	14.48	9.572	32.267	36.609	16.275	12.472	993
18.454	28.364	9.375	30.098	33.32	15.114	13.572	993
1.21	1.24	1.23	14.213	5.131	4.461	1.602	993
32.972	32.58	8.375	42.638	34.944	15.19	7.795	993
56.105	79.509	83.686	102.799	210.852	71.492	110.625	993
5.888	4.827	0	12.676	3.328	3.255	3.118	993
17.213	12.126	32.792	22.109	47.127	17.843	8.546	993
3.581	8.562	9.703	11.682	16.868	6.599	22.125	993
205.32	410.998	259.549	655.346	286.759	227.675	308.17	993
27.971	29.765	19.675	63.168	88.173	28.746	27.061	993
19.874	28.198	21.746	47.875	73.451	26.764	30.36	993

82.891	53.359	48.588	96.716	141.158	52.875	29.545	993
589.972	717.974	903.324	618.833	1289.618	1260.791	843.421	993
100.272	122.321	75.196	179.899	313.748	141.885	116.947	993
28.262	26.547	17.947	42.638	48.257	9.765	14.031	993
3.581	1.223	4.851	16.354	1.687	2.2	7.902	993
11.046	16.35	13.717	31.228	64.17	19.225	34.122	993
1.194	0	1.213	12.85	5.06	1.1	3.161	993
10.598	7.24	10.768	20.743	19.968	8.68	12.472	993
49.08	57.477	43.76	110.762	111.815	100.595	82.215	993
21.301	37.702	15.74	85.277	58.832	33.901	25.637	993
26.262	33.027	47.301	42.054	53.978	24.197	53.732	993
54.463	35.966	39.35	48.56	94.064	59.103	35.251	993
31.468	26.044	34.431	52.114	88.933	42.376	52.876	993
14.524	32.245	4.919	45.007	83.802	18.958	14.421	993
37.005	72.169	60.642	68.922	182.176	61.593	69.536	993
41.15	63.25	36.891	81.724	121.427	39.031	52.876	993
21.487	18.348	10.916	25.7	52.291	20.898	23.705	993
87.142	127.908	107.681	686.824	377.733	79.206	93.54	993
4.909	1.258	7.482	16.815	29.484	10.178	6.5	993
52.285	55.678	152.077	101.329	183.982	106.74	112.652	993
20.293	39.143	47.301	46.727	89.401	19.798	52.152	993
50.136	68.5	59.429	99.295	111.33	31.897	42.67	993
12.449	22.961	43.004	26.801	49.255	20.646	39.554	993
82579.675	32034.319	36238.479	32899.775	26847.096	51641.392	78587.465	993
150.964	154.693	113.478	283.455	306.977	98.385	97.493	993
21.785	32.245	23.364	37.901	75.251	23.418	40.058	993
12.752	11.978	14.036	24.959	33.037	17.625	9.848	993
123.451	192.231	110.672	254.646	304.424	201.844	177.856	993
8.106	29.073	19.561	36.689	40.091	23.341	26.829	993

87.142	127.908	107.681	686.824	377.733	79.206	93.54	993
3.112	7.441	8.432	16.243	10.261	7.647	4.12	993
14.131	15.687	11.965	23.048	36.609	14.105	23.385	993
1.429	0	2.177	6.291	3.028	0.658	0	993
902.827	1274.52	867.361	2926.679	1607.233	1274.392	931.649	993
1809.521	431.893	364.089	871.041	2778.137	421.12	887.614	993
35705.073	15616.415	22449.542	15119.662	25137.965	32441.592	27547.715	993
1.815	6.511	9.223	8.883	16.675	4.182	1.202	993
149485.61	160320.905	227842.866	124597.706	136620.965	301682.863	260271.687	993
40.577	76.343	165.586	106.108	116.558	109.098	127.695	993
51544.629	19290.51	31563.689	30473.571	37184.68	39192.028	58760.584	993
1.383	1.417	1.405	9.475	3.909	2.549	1.831	993

Supplemental Table 2 Tab 1

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Pairwise comparisons (valı

EC Number	KEGG module	Reference vs pH 1 hour	Reference vs pH 24 hours	Reference vs NaCl 1hour	Reference vs NaCl 24 hours	Reference vs CO2 1 hour	Reference vs CO2 24 hours	Reference vs Temperature 1 hour	Reference vs Temperature 24 hours
d dynamics> Q - Secondary		-0.603226	-0.4986498	-0.8642017	-0.1869221	-0.3404303	-0.6949296	-0.241905	0.25581262
ıotosynthesis - antenna pro		0.10542821	-1.0820181	0.27308289	-0.5990516	-0.1828591	-1.3476053	0.07513519	0.26830767
EC:1.1.1.38		-0.8500678	-1.3848823	-1.6890989	-0.6659071	-0.4400473	-1.3257097	-0.7382188	0.68705432
EC:1.8.1.4	Citrate cycle (	-0.4128628	-0.7420312	0.21931672	-0.522992	0.16567282	-1.4220314	0.00718308	0.2405612
EC:1.6.5.3	map00190 N/	-0.1798234	-0.4458858	-1.7055234	-0.2602777	-0.0955663	0.93497585	-0.2006658	-0.1945375
EC:3.6.3.14	ATP synthase	0.85318002	-0.057692	-3.1168998	0.28993588	0.28688693	-2.2159143	0.49110019	-0.1639135
EC:3.6.3.14	ATP synthase	1.09394912	0.08339456	-2.3383669	0.54088551	0.48587037	-2.3130635	0.75460051	-0.2721917
EC:3.6.3.14	ATP synthase	1.22547325	0.12956316	-2.5024403	0.51997495	0.46193401	-2.1625865	0.84974914	-0.3910877
EC:3.6.3.14	ATP synthase	0.95452384	-0.1409246	-3.6090158	0.3054771	0.16677811	-2.4171829	0.57793425	-0.4863186
EC:3.6.3.14	ATP synthase	0.76434918	-0.2150232	-3.4861039	0.12696957	0.16062842	-2.3774365	0.51899502	-0.2020613
EC:3.6.3.14	ATP synthase	0.44930049	-0.2508169	-4.3813217	-0.056242	0.15997137	-2.5177364	0.14711111	0.36906246
EC:3.6.3.14	ATP synthase	0.34287982	-0.3967181	-3.2921983	-0.1775736	0.13758182	-2.1246379	0.46903507	0.52453283
EC:1.8.1.4	Citrate cycle (	0.25965738	-0.7532932	-1.4358091	-0.2915228	-0.0808563	-1.5760398	-0.195961	0.10451091
conversion		-0.3510966	-0.860526	-0.0930907	-0.8712667	-0.656928	-1.7867833	-0.6585131	-0.0582397

Supplemental Table 2 Tab 1

conversion		0.25881365	-0.9569181	-1.667051	-0.4400812	0.02043092	-1.3724043	0.57723656	-0.4247124
conversion		-0.5886988	-0.8647004	-1.6380655	-0.8675148	-0.6244863	-1.0649166	-0.6638455	0.32711593
EC:1.1.1.42	Citrate cycle (	0.67356602	-0.2796017	-1.5027125	-0.2226822	0.14988126	-2.3766961	-0.2117954	-0.106983
EC:1.6.5.3	map00190 N/	0.75500057	-0.8774753	3.0679503	1.68390969	0.95386207	1.18142947	2.89515125	3.57693007
yoxylate and dicarboxylate		-0.1442399	-0.8363702	1.55737975	-0.0189359	-0.1682175	-0.3248834	0.47647427	0.82935185
EC:6.2.1.5	Citrate cycle (	-0.400571	-1.1725152	-0.0811149	-0.3635571	-0.5266248	-1.1483583	0.06623814	0.69117313
conversion		0.21598462	-0.2565551	1.34813223	-0.3364809	0.19211479	0.01107305	1.00102345	1.34617759
EC:1.1.1.94		-0.4245969	-0.787754	-0.5607176	0.00175446	-0.398829	-1.2323194	-0.4145624	0.34230069
conversion		0.11974182	-0.6556316	0.56731672	-0.1217041	0.1720229	-0.4364155	0.99417445	0.1158573
conversion		-0.3281401	-1.0758228	-1.7977413	-0.6658958	-0.4989326	-1.1928823	-0.5204798	-0.0221661
yoxylate and dicarboxylate		0.03711422	-0.72107	-2.270307	-0.7864888	-0.2974987	-1.8134783	0.36345945	0.42156209
EC:1.1.1.1		-0.6659048	-0.6239898	-0.0976199	-0.6741625	-0.3670113	-0.7406334	-0.4838756	-0.2045283
EC:1.10.3.-	map00190 Cy	0.10659697	0.31032158	-1.8953767	1.67303258	0.51667287	0.09073139	0.60745902	1.07139564
EC:1.10.3.-	map00190 Cy	-0.0631831	0.24111746	-1.4760295	1.59897655	0.31172549	0.16168476	0.7126132	0.9297293
EC:2.7.2.1	Methanogen(	-0.0641108	-0.5637192	-1.348446	0.13574114	0.12992037	-1.0386282	0.51186582	1.51051531
conversion		-0.6265575	-0.0017023	-3.6291865	0.31683794	-0.5448641	-0.2451797	0.74016048	1.14823833
conversion		0.16161879	-0.5272602	-2.1697459	-0.8690845	0.02775693	-0.8999123	0.09975354	0.02714197
conversion		0.26441391	-0.2310595	-0.4465428	-0.4090891	0.32717518	-0.523637	0.91369933	0.86029253
conversion		-0.2209173	-0.0569111	1.9621385	0.04645853	-0.1786008	0.57172995	0.31432527	0.42708002
EC:1.9.3.1	map00190 Cy	-0.4086534	-0.7301861	-1.7995125	0.85048135	0.10003587	-0.465009	0.46123896	1.17578853
EC:1.9.3.1	map00190 Cy	-0.4829971	-0.6042541	-2.1076679	0.95038504	0.05376668	-0.3633633	0.50306811	0.50480788
EC:1.9.3.1	map00190 Cy	-0.1982112	-0.4997983	-2.1026044	0.91904709	0.34107156	-0.5246698	0.89301188	0.91577117
ıotosynthesis		4.04079472	-0.6636415	-0.5741009	2.21336774	3.25338873	0.32721803	3.51300428	1.98978567
ıotosynthesis		-0.3175841	-1.3288054	-2.8566245	-0.8597878	-0.6140736	-1.7012014	-0.7581877	-0.3346191
EC:1.6.5.3	map00190 N/	1.55507393	-0.2834453	1.96538399	-0.767361	-0.137461	3.78457696	1.06789135	-0.6382621
EC:1.2.4.1		-0.098283	-0.8490525	-1.6660913	-0.7472942	-0.23833	-1.7781136	-0.4179139	-0.1217994
EC:1.7.7.2		0.62484142	-0.3065838	0.99708713	0.55002092	0.47191597	-3.6575061	1.95639998	-0.0363191
EC:1.3.99.1	3-Hydroxypro	-0.5799417	-1.1157348	-0.8965747	-0.3067863	-0.4785066	-0.3537908	-0.6758268	0.20005572
EC:1.6.1.2		-1.428723	-1.3184199	-0.933644	-0.0445321	-0.9545489	-1.3034464	-0.8895452	-0.1943844

Supplemental Table 2 Tab 1

EC:1.6.1.2		-0.6941451	-0.4262581	-1.295738	0.03835944	-0.5102823	-0.9665714	-0.0022265	-0.0858684
conversion		-1.1380604	-0.8390928	-3.8999623	-1.6606714	-0.6945107	-1.331793	-0.7464126	-0.5637569
conversion		-0.6109454	-0.2289432	0.16388516	0.16498705	-0.24245	0.90955799	-0.2088009	0.279672
conversion		0.0353924	0.2754202	-1.5378751	0.51694627	0.22212641	0.43224778	0.06608173	1.19743801
conversion		0.11722115	-0.8003304	1.09844484	-0.2224741	0.00276054	-1.6839221	0.78739771	0.54200497
EC:1.10.99.1	map00195 Cy	-0.6948293	-1.0498166	-0.3782327	-0.2473018	-0.3882195	-2.1931487	-0.6968658	-0.5671003
conversion		0.58791684	-0.7704183	0.98599457	-0.2332377	-0.0593562	0.09124887	0.49513207	0.35158712
EC:4.-		-0.5875165	-1.0273703	-0.1413294	-0.8816829	-0.8689774	-1.2399356	-0.4473699	0.05327438
conversion		-0.2176967	-0.6287392	1.53455344	0.76884711	-0.1289997	0.61883687	0.42677771	1.44683906
conversion		0.14827607	-1.2603637	-0.9429415	-0.7650695	-0.2265153	-0.709371	0.88885532	0.70034861
EC:1.3.99.1	Citrate cycle (	-0.7797225	-1.0207814	-1.3824035	-0.8435904	-0.6662467	-0.8145545	-0.5402402	0.14504455
EC:1.6.99.3		-0.4697905	-0.9872635	-0.1919193	0.10099697	-0.5394747	0.03637822	0.41185249	1.33741011
EC:1.6.99.3		-0.2524721	-0.127228	1.7896828	1.97040512	0.0363834	-0.0381261	1.00265173	3.93947825
conversion		0.03960116	-0.5898477	0.79991912	0.12007419	-0.1779075	-0.4031682	0.54677876	0.8940725
conversion		0.54479816	-1.0471193	-1.8720293	-1.096009	0.11903883	-1.5183568	0.567541	0.40283731
conversion		0.25119228	-0.8614543	-2.0834191	-0.7869414	-0.1849077	-1.4695963	0.06240528	0.60240401
EC:1.6.5.3	map00190 N/	0.01431669	-0.6156994	-0.8706082	-0.3134213	-0.1570785	0.34486504	-0.2437071	0.08408489
conversion		1.99730388	0.08321019	5.10871183	0.87926067	1.01073439	-1.2550833	0.94425663	-0.3097907
EC:1.9.3.1	map00190 Cy	-0.3797788	-0.7218428	-2.8727673	-0.0452701	0.00306586	-0.5470072	-0.0241135	0.38488568
EC:1.9.3.1	map00190 Cy	-0.3976977	-0.888326	-3.0390782	-0.3245042	-0.162372	-0.8781254	-0.2199769	0.01101841
conversion		-0.1551092	-1.1081534	-0.700599	-1.0329418	-0.4438787	-1.0857815	-0.4928018	0.30400208
EC:3.6.3.14	ATP synthase	0.70362345	-0.2280868	-2.161084	0.11345171	0.2162317	-2.2831227	0.31761486	0.14583199
EC:3.6.3.14	ATP synthase	0.78703717	-0.145964	-2.0114751	0.23101349	0.22445906	-2.5862281	0.5238231	0.211293
conversion		-0.2940667	-0.5470203	-2.4297479	0.41010769	0.17259322	-0.8796724	0.19273764	0.5014745
conversion		-0.410707	-0.4800956	-2.4220679	1.14295957	0.03862548	-0.5882118	-0.0323031	0.68811195
EC:1.6.5.3		-0.3201356	-0.4392195	-1.3178446	1.15028434	0.02692714	-0.236463	0.05324291	0.76254141
EC:1.6.5.3		-0.6871978	-0.7862856	-0.8693326	1.36447443	-0.3364251	-0.1988716	-0.1209161	0.97108125
EC:1.6.5.3		-1.0984768	-1.0115791	-0.7852918	1.11848569	-0.497097	-0.4499887	-0.4508349	1.36787196
conversion		-0.0828006	-0.9762997	-1.4558777	-1.0076298	-0.5577689	-1.6350166	-0.2623757	0.20333252

Supplemental Table 2 Tab 1

EC:1.9.3.1	map00190 Cy	-0.3839557	-0.5469344	-0.9997893	-0.2356983	-0.1625092	-0.3182976	-0.2954049	0.30029013
conversion		0.77777864	-0.609785	0.99670341	-0.6715509	0.04066769	0.35138995	0.93102559	0.12605388
conversion		0.35560726	-0.9081222	-2.4273901	-0.7334815	0.34466081	-0.0646537	0.94626199	0.9368911
ıotosynthesis		-0.1383469	0.27946288	2.27323306	0.48894839	-0.0689817	1.56522014	-0.0242114	0.32839722
EC:1.10.99.1	map00195 Cy	-0.2583794	-0.5922589	0.56594676	-0.0066707	-0.0660154	0.21347412	-0.3260965	1.01767936
EC:1.6.5.3	map00190 N/	-0.0752968	-0.6257413	-1.0639675	0.09486435	0.0469159	1.27096861	0.22850032	0.93658999
EC:1.6.5.3	map00190 N/	-0.0396739	-0.6549485	-1.9066766	0.20929729	0.00242555	0.65106488	0.28131877	0.81729437
EC:1.6.5.3	map00190 N/	-0.2265325	-0.718047	-1.728349	0.08981023	-0.0509358	0.66491484	0.01227485	0.45610195
EC:1.3.1.83		0.11348922	-0.5263382	-5.0667199	-1.0228966	0.05073636	-1.6278174	-1.203656	-0.5805133
EC:1.1.1.6		-0.7112334	-0.7633352	-0.6113821	-0.4564286	-0.5835741	-0.0621425	-1.0082488	-0.4968807
EC:1.1.5.3		0.33530039	0.68875201	7.57083446	3.6252607	-0.2702224	-0.0104152	0.98033759	1.53953613
EC:2.7.1.30		0.10765985	0.37341774	3.86742524	2.23289947	-0.1861955	-0.1393341	-0.0950214	0.25011476
conversion		1.19967832	-1.6285764	3.4697763	-0.3435557	0.45510297	-1.1052917	0.5751019	1.52564418
conversion		-0.7808409	-1.885494	4.30725165	-0.7728467	-0.1988012	1.08146248	0.03434503	-0.8259903
EC:6.2.1.5	Citrate cycle (	-1.4063471	-1.1436284	-1.7247453	-0.4750511	-0.6140895	-1.1630805	-0.1349733	0.84583565
EC:5.3.3.2	C10-C20 isop	-0.6994735	-1.0745575	-0.3237367	-0.5109766	-0.4691439	-0.4586328	-0.0657364	0.58053578
EC:4.1.1.31	C4-dicarboxy	-0.0653391	-0.5260419	-1.0681968	-0.2023291	-0.2073917	-0.8267704	-0.3695736	0.13866717
EC:3.6.1.1		0.54573539	-0.8430425	-2.6460529	-0.3348845	0.26665126	-2.0945241	-0.1338166	1.34264756
conversion		-0.2642585	-0.2869286	-0.0916202	0.39574388	-0.3674297	0.61131439	1.28513007	1.19158342
conversion		-0.2919753	0.02451651	-1.8511784	-0.1834733	-0.1771991	-1.0163866	-0.6662749	-0.8017428
ıotosynthesis		-0.0761015	0.06108863	-1.8900618	-0.1812557	-0.1153064	-1.2381823	-0.4852958	-0.800298
ırotenoid bios	beta-Caroten	-0.2495753	-1.0402632	-0.9161609	-0.9758373	-0.3048215	-1.0016871	-0.3124788	-0.1166348
EC:1.12.98.1	Methanogen(	0.14398475	-0.633145	0.71885988	-0.1858547	-0.1349781	-0.7660023	0.22528216	0.43793667
EC:1.2.4.1	Pyruvate oxic	0.03813546	-0.9371992	-1.6245585	-0.7436551	-0.1852336	-1.8285047	-0.4949753	0.1907948
EC:2.3.1.12	Pyruvate oxic	-0.2684242	-0.5927614	0.82540685	-0.4091666	-0.4128543	-0.7728625	-0.6978218	-0.1047029
conversion		-0.2155262	-1.2604406	2.71916849	-0.2687944	0.00580104	0.56516629	0.9688917	0.22062868
ıotosynthesis	map00195 Ph	-0.9385354	0.00941802	-3.4935649	-0.5215789	-0.3684292	-2.0834096	-1.454749	-0.5590122
EC:1.6.5.3	map00190 N/	-0.5081009	-0.1520033	-3.050683	-0.3316723	-0.2117243	-0.4473313	-0.7751988	-0.336909
EC:1.2.1.16	GABA (gamm	-0.5873636	-0.8799564	-0.0591641	-0.422229	-0.3768112	0.02436045	-0.3956931	0.16960143

Supplemental Table 2 Tab 1

EC:1.3.7.7		-0.4003846	0.03453608	-4.1057015	-1.310358	-0.7385793	-0.5945986	-1.8568465	-2.0563304
ıotosynthesis	map00195 Cy	-0.1128969	-0.0435952	-1.517929	0.50964295	0.18497996	-0.1612274	0.08308789	-0.1294721
ıotosynthesis	map00195 Cy	-0.1888324	0.00276053	-1.9744895	0.3008452	0.09516341	-0.0630367	-0.1054623	-0.3924689
EC:4.1.1.39	Reductive pe	0.72491428	0.01202798	-2.2774533	-0.209757	0.51721818	-0.0220216	1.04509999	0.02844224
ıotosynthesis		0.41469996	-0.7468337	-2.5994905	0.12397899	0.02493041	-2.3520943	-0.3278659	0.76176127
EC:4.2.1.2	3-Hydroxypro	0.03168697	-1.0995986	-1.216791	-0.757366	0.04104668	-2.1627361	-0.404481	0.2259667
ıotosynthesis		-2.7620241	-0.2849076	0.6374341	-0.5703688	-1.7487301	-2.0732955	-3.292665	-0.3935263
EC:1.1.3.15		-0.5848869	-1.0532587	-2.0863551	-0.4683775	-0.4427955	-0.136176	-0.5611075	-0.1942195
EC:2.3.3.1	Citrate cycle (	-0.509564	-0.707909	-0.7809252	-0.420917	-0.5318889	-0.2496034	-0.5836007	-0.1413346
EC:1.8.98.1	Methanogen	-0.7921229	-0.2845852	-0.7546497	0.56037971	-0.1627339	-0.1571735	0.17506254	0.95360858
EC:4.-		0.36108949	-0.4585547	-0.7962631	-0.6567488	-0.1836306	-0.4843675	1.02259252	0.87462534
EC:1.1.1.37	C4-dicarboxy	-1.095624	-1.0666199	-0.0732649	-0.9023425	-0.6269918	-0.451758	-1.0630799	-0.1013045
conversion		0.06449509	-0.9040058	0.92822658	-0.1764214	-0.11413	-0.7660764	0.04281026	0.29827931
EC:1.3.99.1	Citrate cycle (	0.64874141	-0.3025115	0.5423225	-1.0274383	0.1433645	-0.9724202	0.19689446	-0.3326176
EC:1.2.1.3	GABA biosynt	0.65765922	-0.2192135	-1.4174642	0.388039	1.1572068	0.11808607	2.05500895	2.01364992
conversion		0.42707795	-1.0342034	-1.9473446	-1.2906117	-0.0799423	-0.9358344	0.20390772	0.40554792
conversion		-0.7401601	-0.2047804	-1.714252	-0.2499113	0.07533808	-0.3252969	-0.3957859	-0.9224355
conversion		-0.4777886	-0.8058272	-1.5944238	-0.6269991	-0.128046	0.07157306	-0.8707324	-1.5288707
ırotenoid bios	beta-Caroten	0.93648643	-0.2975071	-0.5847891	0.12215927	0.73641047	-0.5815411	1.46842256	1.3437205
EC:1.2.7.-	Dicarboxylate	-1.644203	-0.935742	-0.3757944	0.52350992	-0.6765279	-0.894811	-0.2144273	0.1016447
conversion		-0.6164043	-0.5475757	-0.3479297	-0.4577655	-0.5443945	-0.0515514	-0.1469864	0.44189448
EC:1.6.5.3	map00190 N	0.1969973	-0.5519862	-2.05441	-0.6136091	0.023226	-1.1480227	0.20511003	0.00611725
conversion		-1.5205994	-0.439742	-1.0111205	-0.3497036	-0.7847997	0.83230037	0.53537789	1.00676923
EC:1.6.5.3	map00190 N	0.04686511	-0.3189191	-3.0317276	-0.1208608	-0.0376315	0.4716631	0.26186219	0.15262805
EC:1.6.5.3	map00190 N	-0.1064379	-0.4159735	-2.1063443	-0.4079963	0.0139731	0.55342754	-0.0955341	0.09924614
EC:1.6.5.3	map00190 N	0.06556514	-0.3370402	-2.1599587	-0.0170647	0.20291891	1.00115148	0.24959972	-0.0049062
EC:1.6.5.3	map00190 N	-0.3197595	-0.4498856	-2.035184	-0.1880558	-0.0273912	1.02200294	-0.1333176	-0.0676388
conversion		0.39281617	0.28259526	-0.3623755	0.48079519	0.30447542	0.11037547	0.40805437	0.98779688
EC:4.2.1.3	Citrate cycle (	0.30914732	0.13031496	0.01932504	0.18971365	-0.0937943	0.04178824	0.00940978	-0.6318151

Supplemental Table 2 Tab 1

EC:1.6.99.3		-0.8441364	-1.1894233	0.5164969	-0.2628187	-0.6300414	-1.0799694	-0.551208	0.21516786
EC:1.3.7.7		-0.2096819	0.32636176	-2.1941159	0.26883529	-0.028538	-1.625804	-0.2624852	-1.0688185
EC:1.10.99.1	map00195 Cy	-0.5303097	-1.4031754	-0.0592868	0.16180777	-0.3260867	-0.4962848	0.96534086	1.48280986
conversion		-0.3855363	-0.4651092	9.5700422	0.95758646	-0.0144198	0.88310115	1.31216348	0.04866005
EC:1.6.5.3	map00190 N/	-0.4052656	-0.0866727	-2.2053849	-0.6357854	-0.2786307	-1.2908221	0.32610103	0.15136055
EC:1.1.1.85	Leucine biosy	0.16576342	-0.9469374	-0.1171929	-0.8627159	-0.2571867	-1.7695955	-0.4269394	0.00058138
EC:1.5.1.12		0.17663873	-0.7322739	-0.3926789	-0.7728466	-0.106404	-1.1429772	-0.4117626	-0.5991072
conversion> G - Carbohydra		0.48046579	-1.1355843	-1.6990699	-0.5804706	-0.0954477	-1.9976202	0.157772	0.08785196
EC:1.14.13.-	Ubiquinone b	-0.36379	-1.0878471	1.61662813	-0.3275595	-0.2032877	0.55555014	0.07571441	0.47126761
EC:1.1.1.28		0.09358661	0.12986873	-0.0797942	0.51045442	0.34936141	0.19576845	1.07032347	2.14913807
conversion> K - Transcriptic		0.2571797	-0.4215796	-0.389415	-0.4211811	0.00041658	-0.8123483	0.43390039	0.75473539
conversion> O - Posttransla		-0.0028185	-0.0464754	0.32990989	0.23057339	-0.0316792	-0.0150005	-0.1155298	0.43303696
conversion> O - Posttransla		-0.6851267	-0.4255347	-2.0818424	0.21659699	-0.2023143	-0.8322399	0.72185908	0.71086105
EC:1.6.5.3	map00190 N/	1.91591301	-0.5157291	2.8746666	-0.9631099	-0.1496061	0.96570567	0.55931281	-0.5687771
EC:1.6.5.3	map00190 N/	0.47231925	0.16941317	0.97221782	0.27894083	-0.0621077	0.3097897	0.05767127	-0.2131871
EC:1.6.5.3	map00190 N/	1.96128606	-0.1300091	3.50150299	-0.5860869	0.45546717	4.60317361	1.40115767	-0.5308711
EC:1.6.5.3	map00190 N/	0.3635058	0.07702565	-1.8885712	0.52260635	0.09807175	-0.5561908	0.12161044	0.75018701
EC:1.6.5.3	map00190 N/	0.09272589	-0.7030557	-1.5048298	-0.6683535	-0.1238958	-1.3410611	0.19488689	0.45859635
conversion> Q - Secondary		0.09028389	-1.215693	-2.1199283	-0.6661908	0.00724945	-1.4187093	0.56487339	-0.3436637
conversion> Q - Secondary		-0.0598031	-1.415744	-2.3081055	-0.8300904	-0.1338042	-1.7515366	0.45070134	-0.4731443
conversion> Q - Secondary		-0.1987503	-1.2180846	-1.5538893	-0.8913939	-0.1966503	-1.4542263	0.2761482	-0.2019373
conversion> Q - Secondary		-0.5251464	-0.9314696	-0.6683821	-1.1081875	-0.4336801	-1.4771615	-0.7259986	0.09713224
conversion> Q - Secondary		-0.0244433	-1.0590265	-1.6571087	-1.219219	-0.1724222	-2.1006317	0.05806062	0.47453877
conversion> Q - Secondary		-0.342151	-0.8250653	1.9748288	-0.128507	-0.5155358	0.23347387	-0.0098683	0.44038113
conversion> R - General fur		0.07764665	-0.3928783	0.16630119	0.38980418	-0.0038155	6.61622671	1.26636983	0.67158877
conversion> R - General fur		-0.1576949	0.00157677	0.04709418	0.47899634	-0.2460276	5.74289601	0.43354177	0.43226355
EC:2.3.1.8	Methanogen	-0.5497834	-0.8796629	-1.3176439	0.41862636	-0.0626976	0.17037782	1.2509165	3.06642535
conversion> R - General fur		-0.6624866	-0.8985119	0.22803752	0.63900117	-0.8727291	-0.4438315	-0.0426906	0.67388424
conversion> R - General fur		-0.0590021	-0.2324684	0.26284187	0.47405365	-0.1693868	1.08670598	-0.4263902	-0.024247

Supplemental Table 2 Tab 1

conversion> S - Function un	0.11659933	-0.7272485	1.01872224	-0.6941246	-0.2124127	-0.5746888	0.72120804	0.49265092
ivision, chromosome partiti	0.17774576	-0.4447876	0.48783998	0.03688457	0.25546327	-0.1812767	0.32451423	0.62149928
ivision, chromosome partiti	-0.6345993	-0.1395652	2.50960734	0.27132672	-0.2949168	-0.1651306	0.88399442	1.99726002
ivision, chromosome partiti	-0.0917721	-0.4955396	0.23314295	-0.5405719	-0.0778308	-0.1715399	-0.4037848	0.10144735
ivision, chromosome partiti	0.35082968	-0.4864858	-1.3921044	-0.0178283	0.15210178	-1.2290766	0.329141	0.70153658
ivision, chromosome partiti	-0.0155889	-0.4055906	-2.7566906	-0.0801925	-0.1670126	-1.2684353	-0.9300695	-0.1695379
ivision, chromosome partiti	-0.419966	-0.897276	-0.8364076	-0.9574029	-0.5195053	-1.3995612	-0.5082185	-0.1295757
ell cycle - Caulobacter	-0.4096714	-1.0473052	0.33490628	-0.395195	-0.5988405	-1.0056287	-0.4800941	-0.1329072
ivision, chromosome partiti	-0.5827181	-0.7668217	-1.9940422	-0.2466294	-0.3811539	-0.4840856	-0.2069648	0.54462219
ivision, chromosome partiti	-0.0401536	-0.6716357	-0.1697113	-0.6328575	0.14403341	0.0443185	0.51370421	0.27509793
ell cycle - Caulobacter	-0.3413801	-0.3123154	-1.6037421	-0.4630121	-0.1492607	-0.800401	-0.5371794	0.31437396
ivision, chromosome partiti	0.08839492	-0.738711	-1.3964756	-1.9020072	-0.3154395	0.08310665	0.12167688	-0.2838886
ivision, chromosome partiti	-0.3246321	-0.0800165	3.67786284	-0.2416975	-0.2741853	0.20076106	0.08699662	1.17680387
ivision, chromosome partiti	0.37829972	-0.1180283	-0.3165364	0.5347435	0.12473471	0.83154319	0.84972094	0.76565469
ivision, chromosome partiti	0.54264593	0.10598036	0.02290579	0.28009283	-0.1961799	0.85165982	0.46819726	0.99824591
ivision, chromosome partiti	-0.951578	-1.0704527	-0.0373847	-0.5081414	-0.7386118	-0.2735827	-0.5334787	0.05399406
ivision, chromosome partiti	-0.3313016	-0.9845695	0.82848347	-0.5932223	-0.4919099	-1.0977571	-0.4153238	0.24373449
ivision, chromosome partiti	-0.1481744	-0.5505451	-0.0139028	-0.0302753	-0.240455	-0.380767	-0.2616437	-0.0077559
ivision, chromosome partiti	-0.0488944	-0.778539	-1.4498134	-0.5506467	-0.0700811	-1.4142428	-0.1161275	0.66921654
ivision, chromosome partiti	0.96138934	0.78578463	-0.202444	0.94388664	0.38705386	0.77905097	1.03254726	0.61390099
ivision, chromosome partiti	-0.0952383	-0.8700357	0.11466184	-0.3539521	-0.363867	-0.9436817	0.35023911	0.75576174
ivision, chromosome partiti	-0.2419934	-1.1969533	-2.8515378	-1.1579756	-0.2824544	-1.8216357	-0.3607668	0.04455814
ivision, chromosome partiti	-0.4791991	-1.0961202	-2.4498284	-1.1871872	-0.3013432	-1.7454995	-0.4036272	-0.0380304
ivision, chromosome partiti	-0.9142696	-1.5175989	-1.3045146	-0.3018533	-0.5284148	-2.2726151	-0.0917269	0.322685
ivision, chromosome partiti	-0.6652679	-1.2420572	1.03047909	-0.4973922	-0.5967105	-0.839612	0.11201136	0.09118693
ivision, chromosome partiti	0.50038674	0.47380759	2.26162499	0.35199155	0.26008371	0.76143225	0.37199783	1.06823488
ivision, chromosome partiti	-0.6927861	-1.168502	-1.5205182	-1.7051873	-0.1766423	-0.8798613	0.21772199	0.03064562
ivision, chromosome partiti	-0.2768857	-0.4939593	-0.7900961	-1.0212933	-0.307916	-0.8804989	0.54210196	0.18251705
ivision, chromosome partiti	-0.4978193	-1.5303163	-0.475832	-0.9472205	-0.6558971	-3.0889643	-0.220842	0.40424588

Supplemental Table 2 Tab 1

ivision, chromosome partiti		-0.2061759	-1.1701038	0.97661511	-0.9074985	-0.4707884	-2.2025838	0.50877244	0.4151376
ivision, chromosome partiti		0.03249349	-0.5432983	-1.3607762	-0.5594344	0.05094168	-0.7526222	0.74211881	0.91196198
ivision, chromosome partiti		0.27447091	0.15152664	-1.5484183	-0.5092956	0.08398821	0.36631111	2.03126468	0.75060596
ivision, chromosome partiti		-0.4954781	-0.6600546	-0.2784335	-0.1515063	-0.3127096	-0.8331225	0.26472719	0.76072037
ivision, chromosome partiti		0.21936504	0.54016606	-3.2582594	-0.514887	0.50026647	0.09244961	0.70884355	-0.1540517
ivision, chromosome partiti		-0.3461558	-1.240157	0.99284764	-0.9919653	-0.4924736	-2.1540155	0.43141462	0.31041545
ivision, chromosome partiti		0.21936504	0.54016606	-3.2582594	-0.514887	0.4994036	0.09127612	0.70811554	-0.1540517
ivision, chromosome partiti		0.16382177	-0.7785291	-4.2402158	-1.3822543	0.08210718	-2.7042213	0.19774493	0.40400143
ivision, chromosome partiti		0.48951315	-0.121398	0.44915706	0.76859395	0.17988656	0.50371712	0.57505354	0.99820177
EC:4.1.1.19	map00330 Pc	-0.1492752	-0.9274205	-0.6203269	-0.6972849	0.01226643	-0.8952293	0.28640265	0.37302352
nd metabolism		-1.0119524	-0.9910868	-0.6452909	0.10764213	-0.4328308	-0.5137617	-0.2571756	1.55033107
EC:1.3.1.26	Lysine biosyn	-0.2188597	-0.7772764	-0.2152508	-0.144755	-0.2869216	-0.9395053	-0.5290919	-0.1660713
nd metabolism		-0.7615764	-0.5779269	1.77610438	-0.672623	-0.5057477	-0.9516388	-0.5178379	-0.5727527
EC:2.5.1.47	Cysteine bios	-0.7649905	-1.2926414	-0.5399246	-0.3110016	-0.731257	-1.2621522	-0.5661674	0.04246295
EC:2.8.1.7		-0.9701127	-1.3618919	0.66210905	-0.4411551	-0.8885016	-0.3233156	-0.304062	0.11290351
nd metabolism		-0.7117371	-0.9880839	3.37279974	0.0644895	-0.1676299	0.46759267	0.48499943	0.10518446
EC:3.5.3.11	map00330 Pc	0.2572049	-0.550509	0.79731085	-0.3495427	-0.036019	-0.9455761	0.05293923	0.3298689
EC:4.1.1.18		0.07013054	-0.4643334	-1.1960553	-0.4024866	0.2177112	-0.6709255	0.94691223	1.26240584
EC:1.4.1.1		-0.3412785	-0.8934701	-1.0507172	-0.2293463	-0.2156563	-0.8856522	-0.4534692	0.25191007
nd metabolism		-1.2932304	-0.5132098	-1.619558	0.33294308	-0.8559839	0.34543332	-0.6879257	0.05268099
EC:2.7.1.71	Shikimate pat	-0.1453419	-1.2450834	-2.2286056	-1.2649704	-0.5783215	-1.277639	-0.4019883	-0.0792758
EC:4.2.1.51	Phenylalanine	-0.6787358	-0.1950175	0.0502767	-0.2134635	-0.5602274	-0.3614705	-0.6245012	0.3777747
EC:4.2.1.20	Tryptophan b	0.00815424	-0.8448095	-0.8754758	-1.0331573	-0.4706163	-2.1181292	-0.6235708	0.06434922
nd metabolism		-0.3965894	-0.5516776	0.22678553	-0.6985507	-0.5809356	-0.8770085	0.03003021	0.25860862
EC:2.5.1.54	Shikimate pat	0.17572844	-0.2177823	0.02509967	-0.145044	-0.4370916	-0.0364267	-0.2461548	-0.4583253
nd metabolism		-0.6651234	-1.2374504	0.18675638	-0.3760273	-0.5258252	-0.5593155	-0.3687343	0.90981712
EC:1.1.1.23	Histidine bios	-0.3651114	-0.5341383	0.49386972	-0.2336169	-0.4294523	0.58232847	-0.0390049	0.48515518
EC:1.4.7.1		-0.6613661	-0.7217486	-0.8556232	-0.895083	-0.4158483	-0.3138714	-0.5564579	-1.1516882
EC:6.3.1.2		0.08914586	0.04850579	-1.5994585	-0.1340559	-0.2664506	-3.7736175	-0.0666507	-1.3050193

Supplemental Table 2 Tab 1

EC:4.1.1.15	GABA (gamm	-0.4410898	-0.2826905	-0.8104309	0.59442649	0.02517058	-1.1199396	0.20341667	0.4520859
EC:1.1.1.23	Histidine bios	-0.1174599	-0.6518716	0.38578195	-0.6268056	-0.2890236	-0.7044572	-0.2424617	0.65218983
EC:3.5.1.5		-0.7329636	-0.8539665	-1.943337	-0.4128551	-0.3795326	-0.651735	-0.8294627	-0.3148525
EC:2.7.2.11	map00330 Pr	-0.1398876	-0.4799739	-1.0201024	-0.5518283	-0.1372369	-0.5645236	-0.2401774	0.50033747
EC:2.1.2.1	C1-unit interc	-0.0668052	-0.4548858	-0.1447361	-0.4757602	-0.3437268	-0.8411541	-0.7291642	-0.3970056
EC:2.6.1.11	Ornithine bio	-0.5032536	-0.6506276	-1.4761133	0.23666326	-0.2775182	-0.703985	-0.4623256	0.59621774
EC:3.5.1.15		-0.2219638	-1.121805	1.07978089	-1.0767401	-0.4335405	0.97134684	-0.1289927	0.22633202
EC:4.3.2.1	Urea cycle (m	-0.0911603	-0.8495212	-2.6985814	-0.5067656	0.00094012	-1.5891492	-0.458483	0.49237774
EC:3.5.3.11	map00330 Pc	0.24452832	-0.2722046	2.34590574	-1.6734239	-0.4091029	-2.3987244	-0.0712519	-1.1948394
nd metabolism		0.58182185	-0.3156634	-1.7679223	-0.1432084	0.18317908	-0.5792198	0.46988127	0.84212985
EC:2.7.2.-	Lysine biosyn	-0.1656096	-0.846122	-1.8686287	-0.5590672	-0.2623374	-2.089556	-0.2547552	-0.4920368
3C transporter	map02010 Ur	-0.0525465	0.03969563	-1.9751047	-1.1835301	-0.3412307	-4.6937297	-0.2774868	-1.810066
3C transporter	map02010 Ur	0.16066997	-0.0255906	-2.0668996	-1.1642668	-0.1956118	-3.4282469	-0.0872873	-1.12855
EC:4.2.1.10	Shikimate pat	-0.5628135	-0.6229229	0.15593088	0.47626568	-0.497022	-0.0971054	-0.5319755	0.58968946
EC:4.3.1.19		-0.1710399	-0.8076677	0.75249437	-0.3912975	-0.3536815	-1.3422112	0.02927142	0.48736817
EC:4.2.3.5	Shikimate pat	0.37668244	-0.6568193	-1.223659	-0.8161081	-0.2237938	-0.7931638	-0.1987358	-0.413524
EC:2.5.1.47	Cysteine bios	-0.0634791	-0.6681102	-2.6657877	-0.6546173	0.03880549	-1.5845432	-0.4873697	0.38629485
nd metabolism		-0.8778966	-1.0260661	-3.4729602	-1.098268	-0.5553232	-2.633296	-0.9702678	-0.0964885
nd metabolism		1.16999378	-0.3752498	2.42786907	0.29177702	0.01807093	-0.5406528	1.15443468	0.41523094
nd metabolism		-0.2892871	-0.9782333	-0.6791842	-0.6105763	-0.3128493	-1.9165265	-0.9324938	0.35174788
EC:4.1.1.-		0.22838429	-1.0582813	1.1674115	-0.2283791	-0.1023741	-0.5323436	0.08710851	0.99258194
EC:2.4.2.18	Tryptophan b	-0.6238751	-0.847402	-0.8043118	-0.521792	-0.4814413	-1.4502251	-0.515368	0.18938705
EC:2.7.1.39	Threonine bic	-0.5957956	-0.8236252	-1.7950343	-1.0012145	-0.9863638	-0.9732351	-0.899761	-0.6126073
3C transporter	map02010 Ne	-0.3649478	-1.3056334	0.19028212	-0.2149436	-0.2072544	-0.5455215	0.8695012	1.50953458
EC:1.5.1.20	Reductive ace	-0.7119771	-0.9287778	-1.6295827	-0.9934593	-0.6862422	-0.60032	-0.6387192	-0.0832943
nd metabolism		-0.2346427	-1.1934197	-1.5243013	-0.4764818	-0.4393088	-1.2713571	-0.3537213	0.0672235
3C transporter	map02010 Pe	0.09104685	-0.2546295	0.34058594	-0.3201963	0.05850962	-0.1674356	0.52888115	0.50453751
EC:4.2.3.1	Threonine bic	0.31658064	-0.0481661	0.68484608	-0.4321548	-0.2774754	0.26243624	-0.0013028	0.91019711
EC:3.6.3.-	map02010 Pu	-1.0347131	-1.0076509	0.28796963	-0.1558144	-0.7728089	-0.4611658	-0.6325864	0.18112227

Supplemental Table 2 Tab 1

3C transporter	map02010 Pe	0.49173769	-0.2350073	0.58500239	-0.2197664	0.08906534	-0.6651544	0.20782707	0.22819602
EC:3.5.1.5		-0.5976406	-0.6518585	-1.3609283	-0.757692	-0.3160021	-1.0428698	-0.5824455	1.12490752
EC:2.6.1.9	Histidine bios	-0.2481895	-0.6898358	1.08044329	-0.4345009	-0.2167763	-0.6816583	0.5155411	1.24046021
nd metabolism		-0.1400085	-0.4876241	-1.0872188	-1.1652353	-0.1833198	-0.5001665	0.43536173	0.68617264
nd metabolism		-0.0961455	-0.3496825	-1.7001727	-0.8977337	-0.1047152	-0.7254086	-0.0955943	-0.1358652
EC:3.6.3.30	map02010 Ir	-1.0484338	-1.2681894	0.12404632	-1.0259612	-1.2828449	-0.6810842	0.84334017	0.04176676
nd metabolism		-0.2947509	-0.8024971	-2.0044861	-0.5963067	-0.1183304	-0.6968761	0.43661952	0.4474997
EC:3.5.1.2		-0.2084018	-0.0265919	-1.4010272	-0.7185989	-0.0934735	0.03533554	-0.2169962	-0.2753578
EC:1.3.1.12	Tyrosine bios	-0.3562464	-0.7937723	-0.1093229	-1.0742276	-0.4172005	-1.0187289	0.43038917	0.46039911
EC:3.4.11.1		-0.1873387	-0.9041512	-0.760177	-0.5660218	-0.3330152	-1.0628489	-0.4906092	-0.1623006
EC:4.2.3.4	Shikimate pat	-0.2792497	-0.9291136	-2.464168	-0.9620948	-0.1697846	-1.2299157	-0.4175136	0.00956571
nd metabolism		-0.645371	-0.7678471	-1.4420581	-0.7040068	-0.7012744	-0.6183646	0.47610572	0.40310608
EC:2.3.1.30	Cysteine bios	-0.27331	-0.9517067	0.51762546	-0.735183	-0.2693399	-0.4174642	0.31843052	0.32754172
EC:4.1.3.-	Histidine bios	-0.2735671	-0.9039471	-0.7320076	-0.8271223	-0.4956901	-0.5418246	-0.5520828	-0.6287837
EC:2.3.1.1	Ornithine bio	-0.8352305	-1.1307408	-1.3810785	-0.286721	-0.7130322	-1.0184353	-0.6929507	0.66370791
EC:3.6.3.30	map02010 Ir	-0.0898517	-1.0450285	1.96596701	-0.3371425	-0.5576442	-0.8230993	-0.6343576	-0.5319197
nd metabolism		-0.1643766	-0.7496714	-4.4156306	-1.0566389	-0.1252614	-0.3456431	0.95166281	0.6473071
EC:2.3.2.2		-0.5196373	-0.9764904	-1.2958797	-0.807935	-0.6022326	-1.4900587	-0.6639713	-0.1135651
EC:4.2.3.1	Threonine bi	-0.4121344	-1.1084701	0.02786651	-0.7897226	-0.5154113	-0.8989772	-0.5131854	-0.1084905
EC:4.2.1.33	Leucine biosy	-0.5852715	-1.0359767	-2.1498778	-0.5714387	-0.3887508	-1.0903564	-0.6700727	0.33749049
EC:2.3.3.13	Leucine biosy	-0.383498	-0.4013735	0.94799801	-0.3077922	-0.242121	0.55322643	-0.0404786	0.19102474
nd metabolism		0.98945663	-0.2933395	0.16607778	-0.4612914	0.22985072	-1.3052516	-0.1506324	0.28531595
3C transporter	map02010 N	0.33196348	-0.656546	-2.8766575	-1.4038435	-0.230079	-1.4896297	-0.0405216	-0.0811224
nd metabolism		0.77946456	-0.0034704	-0.1996609	-0.0810272	0.4851154	0.59591503	1.0926392	1.46221295
EC:2.5.1.19	Shikimate pat	-0.1955998	-1.0745472	-1.0611342	-0.3256643	-0.4687168	-1.6042603	-0.3824091	0.24716773
EC:3.5.1.1		0.71569544	-0.8215096	-2.3161395	-1.3520996	-0.114561	-1.8344287	0.66900118	0.1487729
EC:3.5.1.5		-0.4932865	-1.2355198	-1.7876823	-0.3487021	-0.3606665	-1.1252446	-0.1165293	1.28782861
3C transporter	map02010 U	1.49816813	0.34462328	-2.0142096	-1.9034487	-0.2539393	-3.7682318	-0.6434379	-2.7025534
EC:1.4.4.2		0.38445426	-0.8438301	-1.1045446	-0.4418034	-0.0298378	-0.1486866	0.22566499	0.05705114

Supplemental Table 2 Tab 1

ıd metabolism		-0.4775598	-0.8320996	-0.8143055	-1.0721543	-0.6486545	-0.7696518	0.44158435	0.55196145
vo-component system		-0.5572763	-0.4291547	-3.0545107	-0.7669657	-0.2571344	-1.5657385	-1.0612077	0.14557791
EC:5.3.1.24	Tryptophan b	-0.3123009	-0.958962	0.75837848	-0.2417122	-0.2804803	-0.2187811	1.05383436	1.51012378
3C transporter	map02010 Ne	0.45253019	-0.3411055	-1.6608949	-0.608718	0.09287334	-0.9957384	-0.0863225	0.27640342
ıd metabolism		0.22464136	-0.7447425	0.35531221	-0.8464951	-0.1170433	-0.4104301	-0.200115	-0.4122174
EC:2.1.2.10		0.30969725	-0.6933625	0.1650839	0.01590762	0.23839916	0.18274545	0.8127968	0.85067595
EC:2.3.3.13	Leucine biosy	-0.3879992	-0.3006202	-1.1594418	-0.778515	-0.2660937	0.19421642	-1.0886958	-0.832122
EC:4.4.1.5		0.39560427	-0.1068379	-1.1547782	0.55272216	0.24637632	-0.7659021	-0.181195	1.12504491
EC:2.8.1.7		-0.3543255	-0.5583853	-1.0701555	-0.5877022	-0.3197525	-0.1824014	-0.3861659	-0.0017428
EC:1.4.3.4	GABA biosynt	-0.802689	-0.9638339	-2.8839891	-1.4167474	-0.3493428	-1.3124002	-0.620824	0.83384427
ıd metabolism		0.82604335	0.22861349	1.28140152	0.22585074	0.14108396	1.02968846	0.31702422	1.59293536
ıd metabolism		-0.462118	0.13263112	-4.5133334	-1.6655264	-0.2031744	-0.2122134	-1.2024852	-1.0006417
EC:2.6.1.83		-0.2948354	-0.8318931	-1.004263	-1.6702913	-0.5504754	-1.169704	-0.0388042	-0.048851
EC:2.6.1.1	C4-dicarboxy	-0.1012071	-0.5730722	-0.6286757	0.0624688	-0.0602425	-0.292573	-0.2592415	0.32063124
EC:1.5.1.7	Lysine biosyn	-0.0667626	-0.4059732	-1.674721	-0.144792	-0.0059073	-0.8622999	-0.2129642	0.74695929
EC:2.2.1.6	Leucine biosy	-0.3817137	-0.8624481	-1.2687969	-1.2346925	-0.6330612	-1.2840503	-0.4143052	0.35910512
3C transporter	map02010 Ne	0.23892965	-1.12821	-3.3320053	-1.2806059	-0.2219164	-2.0345608	-0.7410853	-0.0514212
EC:1.2.1.41	map00330 Pr	-1.0659083	-0.6098069	0.00994355	-0.0552637	-0.5832265	-0.3750457	-0.5471072	0.74870535
EC:1.1.1.3	Methionine b	0.12604733	-0.6537097	-0.0213043	-0.0706924	-0.1383743	-1.1278945	-0.2585384	0.1882116
3C transporter	map02010 Br	-0.625145	-0.7683426	-0.3777326	-0.2578232	-0.6108798	-1.3887667	-0.3218446	0.29272609
3C transporter	map02010 Ur	-0.0841284	-0.4322126	-2.4171032	-0.8788524	0.03152772	-0.7752753	-0.4429345	1.2417693
EC:1.2.1.41	map00330 Pr	0.39059877	-0.6153321	-2.1450096	-0.3222877	-0.124028	-0.9236339	0.17934385	0.14129378
EC:2.1.1.13	Methionine b	-0.1771393	-0.9238712	-0.7931136	-0.9503133	-0.0963949	0.1244308	-0.2764543	-0.4813541
ıd metabolism		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3C transporter	map02010 Ne	0.23071042	-0.4208548	-1.5782661	-0.8599089	-0.2807522	-1.0045334	-0.6944476	-0.5907913
ıd metabolism		-0.3680961	-0.9834956	-0.3444261	-0.7293035	-0.404048	-0.9828799	-0.1482411	0.36922079
EC:2.8.1.7		0.87125662	-0.6585361	2.18706632	-1.0322877	0.5960405	0.14836025	1.30783704	0.05514252
EC:3.1.3.-	map00540 AI	-0.3876376	-1.2439991	-2.3207705	-1.3358196	-0.4129418	-1.5406997	-0.2134048	0.7371375
EC:1.2.1.-	Lysine biosyn	-0.5538077	-0.6878978	-2.7580274	-0.5207498	-0.0403585	-0.3932511	-0.4005597	0.757323

Supplemental Table 2 Tab 1

EC:2.4.2.-	Histidine bios	-0.6416221	-0.7405706	-2.5077452	-0.8945847	-0.5453313	-0.5074091	-0.7874703	-0.0409331
EC:4.2.1.19	Histidine bios	-0.9459594	-1.3912204	0.88561135	-0.8995499	-0.8446205	-0.508273	-1.0204003	-0.6494188
EC:2.6.1.83		0.31845117	-0.7722878	-1.0151957	-0.2467197	-0.0890751	-1.2973861	-0.149143	-0.520103
EC:3.5.1.1		-0.257797	-0.9252762	-0.3054473	-0.5776593	-0.0727262	-0.2146358	0.22592922	0.75472087
ıd metabolism		0.0822595	-0.3582012	-2.1279309	-0.2825497	0.04948527	-0.827214	0.46364862	0.77703469
EC:5.4.99.5	Phenylalanin	-0.2235666	-0.2812609	-1.4724235	-0.2785673	-0.1160812	-0.5618937	-0.3266835	0.63390987
ıd metabolism		0.30601917	-0.29131	-2.0175957	-0.1876698	0.19308676	-1.3631527	0.74423277	0.79561786
EC:1.4.1.4		-0.4591469	-0.7464933	-1.5793395	-0.0946389	-0.2783561	-0.9905851	-0.3601792	0.11993033
ıd metabolism		-0.5014683	-0.6715745	-0.0822694	0.01385846	-0.0607507	0.32972967	0.69979372	0.64950531
EC:4.1.1.20	Lysine biosyn	-0.3534581	-0.7175308	-0.5164673	-0.337766	-0.4714599	-1.2245848	-0.2594031	-0.1278697
EC:4.2.1.20	Tryptophan b	-0.5175597	-0.9571862	-0.3741781	-0.7463252	-0.4212834	-0.13112	-0.3567116	0.26661556
EC:2.1.3.3	Urea cycle (m	-0.5298025	-0.6537373	-0.2514605	-0.2285528	-0.2834808	-0.7389126	-0.6320456	0.21947389
EC:2.4.2.17	Histidine bios	-0.2723501	-1.1498375	-1.8650752	-0.6414383	-0.4470764	-1.8468804	-0.4849201	0.29156324
EC:4.1.1.48	Tryptophan b	-0.5911153	-0.9581447	-2.1968182	-0.817702	-0.2381948	-1.2753991	-0.6438258	0.05346664
EC:1.2.1.11	Ectoine biosy	-0.0394275	-0.8542886	1.03665125	-0.5357554	-0.4342333	-0.7056624	0.17190251	0.04614907
EC:3.4.11.2		-0.1079496	-0.690918	-2.0803728	-0.1625485	-0.0686132	-0.0015171	-0.1926576	0.04509641
EC:5.3.1.16	Histidine bios	0.47744229	-0.5964434	0.72405723	-0.2239838	0.00210428	-0.1783713	-0.0505071	-0.1355031
EC:2.7.2.4	Ectoine biosy	0.19445804	-0.7659946	-1.6993471	-0.9626197	-0.3495487	-0.6614661	-0.4575024	-0.8395004
ıd metabolism		-0.0361276	-0.6998522	-0.9770464	-0.4827447	-0.2876287	-0.7413364	-0.2945489	-0.2266251
EC:1.5.1.2	Proline biosyı	-0.6152353	-0.9683519	0.03674344	-0.6678679	-0.579598	-1.0913799	-0.4388378	0.4332296
EC:4.1.1.19	map00330 Pc	-0.0354741	-0.3517814	-2.1254181	0.46844961	0.23528217	-0.3098009	0.16427	0.96919622
EC:1.4.7.1		0.35063661	-0.4291361	0.33486929	-0.187699	-0.1002232	0.05154119	0.0585374	-0.3699766
EC:1.1.1.25	Shikimate pat	0.13288675	-0.5904889	-1.0333255	-0.9667753	-0.2366258	-0.6996595	-0.4169886	-0.1040715
osynthesis of	Histidine bios	-0.3390714	-0.9227561	-0.6380435	-0.265057	-0.2139796	-0.8134662	-0.4894484	0.2991386
EC:4.2.1.33	Leucine biosy	-0.5069622	-0.9425182	-0.4218095	-0.8948939	-0.4280911	-0.8306259	-0.3744038	-0.2014101
EC:5.1.1.7	Lysine biosyn	-0.7469381	-1.534128	0.3443234	-0.8802925	-0.7571405	-0.7717895	-0.7965551	-0.1407336
ıd metabolism		-0.4615704	-0.6625182	-1.1880841	-0.7049986	-0.4302499	-0.4489452	-0.1740791	0.60441779
EC:6.3.4.5	Urea cycle (m	-0.122253	-0.667136	-1.0639525	-0.7495964	-0.181254	-1.9254595	-0.3791664	0.4828276
EC:2.7.2.2		-0.6287679	-0.2753777	1.99282084	-1.3662642	-0.8318316	0.15206575	-0.2828728	-0.5740382

Supplemental Table 2 Tab 1

EC:3.5.4.19	Histidine bios	-0.6561904	-0.7384677	-1.0656398	0.24454866	0.09023705	-1.8306469	0.4608864	1.79065524
ıd metabolism		-0.7032542	-0.5018389	-2.1697045	-0.2783762	-0.3583861	-0.0488944	1.57507846	1.52016374
EC:2.8.1.7		-0.7947345	-0.5139586	1.80935813	-0.8462767	-0.514493	-0.3893853	1.44457482	0.41975395
ıd metabolism		0.66039549	-0.203621	-0.2436922	0.38119345	0.41629013	-0.0424554	0.87101217	0.34111809
ıd metabolism		-0.9043491	-0.4191109	-0.1314746	-0.4164725	-0.3779686	-0.0251529	0.10859704	0.6319428
EC:6.3.5.5	Uridine monc	0.87932901	0.55128488	-1.5142606	-0.4418284	0.70844619	0.45040213	0.81129886	0.4034461
EC:2.7.6.1	PRPP biosynt	-0.565701	-1.0307532	-1.2213567	-0.3425142	-0.2022344	-0.7853468	-0.4350284	0.58909081
EC:6.3.5.5	Uridine monc	-0.6264109	-0.9020194	-0.837828	-0.4676962	-0.3269256	-0.9508772	-0.6070169	0.64788287
EC:6.3.5.5	Uridine monc	-0.5138711	-1.019545	-2.9399378	-0.4281008	-0.3151308	-1.3382024	-0.4975424	0.43620281
EC:4.2.1.9	Leucine biosy	0.16180831	-0.2693323	-1.7006447	-0.2460295	0.05623984	-0.9606892	-0.237218	0.0839539
ıd metabolism> G - Carbohy		0.10738369	-0.6593628	1.28634804	-0.1008426	0.1403625	0.6312823	1.31820845	1.67771089
EC:4.1.3.27	Tryptophan b	-0.1162433	-0.400128	-2.6402265	-0.4821593	-0.0516211	-1.6364774	-0.4274583	-0.1151143
EC:1.8.4.8		0.39704966	-0.4331329	0.09602461	-0.5840424	-0.0572633	-0.7035271	0.7359741	0.8678053
EC:4.1.3.38		0.40499747	-0.2546574	-0.541234	-0.0322869	0.15452058	-0.7660149	0.44031508	0.85143005
EC:1.1.1.95	Serine biosyn	0.1630636	-0.6810263	-1.4912436	-0.5321325	-0.2574417	-1.2245499	-0.3287185	-0.2060161
EC:2.2.1.6	Leucine biosy	-0.2755163	-0.79031	0.77413449	-0.6265722	-0.3134379	-0.2768801	-0.5299857	-0.3204522
EC:2.2.1.6	Leucine biosy	-0.810742	-0.8739019	-0.2059522	-0.3046519	-0.4220574	0.41358016	-0.5724867	0.25346083
EC:1.1.1.95	Serine biosyn	-0.307037	-0.7540854	-1.5594192	-0.5480167	-0.0370199	-0.706692	0.58204651	0.92340908
EC:4.1.3.27	Tryptophan b	-0.1333332	-0.886795	-1.3951056	-0.5723631	-0.1840691	-0.7685706	0.47925766	1.06992545
EC:4.1.3.27	Tryptophan b	0.30210619	-0.4417688	-1.6291265	-0.5264018	0.16392744	-1.1077291	0.79936392	1.23667306
ıiamine metabolism		-0.9250354	-1.1304569	0.45624918	-0.2139509	-0.659187	-0.7850068	-0.4972828	0.18526011
EC:2.6.1.42	Leucine biosy	-0.1491151	-0.7607722	1.03169034	-0.4099938	-0.1887642	-0.7649384	0.20323767	0.31669182
EC:1.1.1.86	Leucine biosy	1.60739253	0.07454096	-0.2298521	-0.9129244	0.35847031	-1.1243319	0.25613423	-0.0273564
ıd metabolism> K - Transcri		0.06809752	-0.349746	0.11325598	-0.6761496	-0.4409161	-0.0551416	1.06628058	0.40780593
EC:4.2.1.52	Lysine biosyn	-0.3822792	-1.1323173	0.76786544	-0.7054044	-0.6813987	-0.8199093	0.0740277	-0.1391312
3C transporter	map02010 Pe	-0.292263	-0.4462844	0.21516613	-0.3971634	-0.248604	-0.1828865	-0.3376592	0.11204331
3C transporter	map02010 Pe	-0.309388	-0.6469581	-0.6967869	-0.0951769	-0.0803278	-1.1271954	0.79215314	0.96139939
3C transporter	map02010 Pe	-0.1369442	-0.3283315	-1.0859855	-0.4597813	0.03485926	0.09716452	-0.0261096	0.4313786
3C transporter	map02010 Pe	0.00697287	-0.7066146	-1.1355847	-0.1924446	-0.1672922	-0.6494444	-0.0250595	0.53308203

Supplemental Table 2 Tab 1

EC:3.5.2.9		-0.4504569	-0.3855035	-1.688561	-0.0449977	-0.511655	-0.4092933	0.65582057	-0.2904662
EC:1.4.1.13		-0.7821827	-0.9684159	-1.4749386	-0.4529868	-0.5593937	-0.687306	-0.806451	-0.1980288
ıd metabolism> R - General		-0.1268941	-0.9270292	0.86128099	-0.4939819	-0.3457782	-1.4257399	-0.4365487	-0.1870745
EC:1.13.11.27	Tyrosine degr	0.7449922	0.16481522	-1.2768108	0.47134586	0.85652391	0.56782462	1.74503785	1.82655118
ıd metabolism> S - Functior		0.73438281	-0.3573458	-0.0884719	-0.602629	-0.0048545	-0.9454913	0.06686224	-0.4975135
ıd metabolism> T - Signal tr		0.12751327	-1.0667607	-3.816075	-0.9427916	0.05027572	-2.9259772	-0.9059939	-0.1689498
ıd metabolism> T - Signal tr		0.21137707	0.08611558	-1.1415397	-2.2585219	-0.3832392	-1.1222988	-0.48121	-1.4500053
ıd metabolism> T - Signal tr		-0.2565562	-0.4709007	-3.6016617	-1.0622292	-0.2829383	-1.8452037	-1.3997132	-0.7834211
ıd metabolism> T - Signal tr		0.16821938	-0.4462525	-0.570651	0.40960612	0.03519209	-1.3850614	0.04730571	0.53600203
3C transporter	map02010 Pu	0.41445418	-0.7270363	-1.5140825	-0.9688084	0.04661257	-1.2089456	-0.2367984	-0.4360222
ıd metabolism> T - Signal tr		0.50075572	0.09797997	0.32558418	-0.0916418	0.17335854	-0.3084046	1.02021664	0.85249008
ıd metabolism> T - Signal tr		-0.5668736	-0.4130852	-1.5892519	-0.7257383	-0.250287	-1.1425995	0.12212049	0.69759314
ıd metabolism> T - Signal tr		0.4836082	0.26489383	-2.4081107	0.48510651	0.23317901	-2.2130531	-0.0162533	0.39291362
EC:2.7.4.3	Adenine nucl	0.0366283	-0.5189378	-1.8562146	-0.7051793	-0.1261342	-1.3661309	-0.1265231	0.21304175
EC:6.3.5.3	Inosine monc	-0.3312954	-0.8896964	-0.5835936	-0.6755326	-0.4300094	-1.6511986	-0.4575593	-0.2434072
EC:2.7.4.8	map00230 Gu	-0.0802199	-1.1027769	0.53810388	-0.6094042	-0.4325098	-0.4114396	0.33589365	0.53810388
ıd metabolism		0.39764089	-0.4060172	-0.384471	-0.4998244	0.12399952	-1.7553881	0.70234011	0.64507375
EC:2.4.2.9		-0.6005587	-0.7451821	-1.3977529	-0.341231	-0.6064144	-0.7961443	-0.0613852	1.00470992
EC:3.5.2.3	map00240 Ur	-0.0817734	-0.7268373	-0.7820238	-0.7400879	-0.2260075	-1.442883	-0.2683633	0.54841216
ıd metabolism		-2.8923556	0.41950597	-0.6247629	1.37309959	0.4750589	-2.45344	1.00433293	0.85772518
EC:2.1.1.148		0.56300853	-0.3310953	-0.7360585	-0.0855618	0.14730087	-2.6078021	0.55624487	0.97450026
EC:3.6.1.13		-0.33774	-1.0108929	-2.1074229	-1.1353872	-0.3798584	-1.2294047	-0.2393447	0.4042663
EC:6.3.4.4	Adenine nucl	1.46883838	-0.1765411	0.73550356	-0.7103273	-0.1069499	-0.8199049	0.57649061	-0.2360427
EC:2.7.4.3	Adenine nucl	1.96959584	0.11387451	1.85266101	-0.0768253	0.20308336	-0.3240728	1.11616286	-0.5528175
EC:6.3.2.6	Inosine monc	-0.060954	-0.6452789	-1.4810388	-0.6086222	0.05388973	-1.7177141	-0.2800036	0.95916905
EC:4.1.2.4		-0.014804	-1.1474925	-1.0638024	-0.8855601	-0.4145222	-1.1942696	-0.0552377	0.10513943
EC:2.1.2.2	Inosine monc	-0.5676393	-0.774053	-0.175221	-0.6923224	-0.3670674	-0.449794	-0.3395983	0.46987878
EC:4.1.1.23	map00240 Ur	-0.6782963	-1.0826361	-0.354875	-0.6985543	-0.5699234	-0.4256765	-0.1892925	-0.0954147
EC:1.1.1.205	Guanine nucl	-0.3075903	-0.8734977	-0.0374448	-0.5483962	-0.4894955	-1.2568284	-0.2931977	0.36209945

Supplemental Table 2 Tab 1

EC:2.4.2.7		-0.3255985	-0.7775649	-2.0356963	-0.2752776	-0.255831	-1.9430195	-0.7372872	0.51858539
EC:3.5.4.13	map00240 Py	1.65523032	-0.613682	-2.6409834	-0.7294505	0.39259031	-1.427044	1.12549581	1.19306834
EC:2.1.3.2	Uridine monc	-0.1684169	-0.6570688	-1.4965056	-0.0256982	-0.2794559	-1.0618603	0.06378615	0.91806821
EC:6.3.4.2	map00240 Py	0.04193665	-0.5072752	-1.1102865	-0.3124994	-0.0262139	-0.8186935	-0.1605501	0.24177231
EC:6.3.4.13	Inosine monc	0.4564664	-0.8459804	-0.6416604	-0.8493822	-0.1416255	-1.6286693	-0.4142107	-0.1682218
EC:1.17.4.1	Adenine nucl	0.58053145	-0.9848084	-2.5909819	-1.1896318	0.02687983	-0.6765369	-0.3445608	-0.384866
ıd metabolism		0.5534169	-0.2663042	-1.7940311	-0.7617471	0.27337847	-1.0358693	0.95564353	0.67711229
ıd metabolism		0.09042541	-0.5163309	-3.8921304	-1.1650414	-0.2396479	-2.0932484	-0.6619206	0.40653193
EC:2.7.1.19	Reductive pe	0.65951766	-0.3557554	0.01652092	-0.2210661	0.23158488	-1.1951876	-0.0180296	0.0767995
EC:4.3.2.2	Adenine nucl	0.61417068	-0.6829761	-1.4985539	-0.9039582	0.02157602	-1.3825367	0.30601888	0.057454
EC:3.6.1.15		-0.0582144	-0.7115011	-1.1697351	-0.6939034	-0.1934495	-0.7597826	0.6763675	0.8421021
EC:3.5.2.3	map00240 Ur	-0.8709349	-0.9094196	-1.7546174	-0.9786313	-0.6385793	-0.8015609	-0.2601895	0.57227845
EC:2.7.4.22		-0.163599	-1.1428801	-1.9225963	-1.0388636	-0.524398	-2.5732158	-0.6576295	0.31831885
EC:2.4.2.28	map00270 M	0.92232414	-0.331157	0.29286942	-0.6852742	0.07575334	-0.2912198	0.32797247	-0.058464
EC:2.7.4.6	Adenine nucl	1.57391637	-0.4189198	-0.0393157	0.56454786	0.96949482	-1.1062879	1.24420579	1.86147604
EC:2.4.2.10	map00240 Ur	0.38079271	-1.1470512	-2.4497882	-1.2587788	-0.1438324	-1.7212582	0.03569619	-0.0580396
EC:2.7.4.9	map00240 Py	-0.4075291	-0.4634261	-2.715685	-0.761928	-0.2690968	-0.3554784	-0.3625974	0.0307901
EC:2.4.2.14	Inosine monc	0.0116	-0.7089232	0.14119132	-1.3206877	-0.4944958	0.41600098	-0.6774945	-0.8619549
EC:6.3.5.2	Guanine nucl	-0.061841	-0.8481873	-2.0813831	-0.8616724	-0.1598566	-0.8246159	0.08999628	0.52233508
EC:3.5.1.10		-0.0198634	-0.3622801	-1.3239856	-0.162352	-0.0021357	-0.5644192	0.41687113	1.20606044
EC:2.1.2.2	Inosine monc	0.15126116	-0.5740017	-0.7155145	-0.067919	0.07801553	-0.0259458	0.65916453	1.00817719
EC:3.1.5.1		-0.4048504	-0.5437717	-0.4010403	-0.4115425	-0.3407556	0.03085171	0.38503606	1.3199095
EC:2.4.2.9		-0.1858042	-0.7013626	-1.994364	-0.1366613	-0.2094203	-0.5370015	-0.2699502	0.52508766
ıd metabolism		-0.4766168	-1.0393289	0.74675223	-0.6001883	-0.5789263	-0.5772332	-0.2656927	0.40770595
EC:6.3.3.1	Inosine monc	0.04832647	-0.9276762	0.34347059	-0.2771416	-0.0966215	-0.9947582	-0.3366111	-0.1776211
EC:6.3.5.3	Inosine monc	-0.3382168	-0.7812443	-0.813016	-0.4054767	-0.3066389	-1.0094995	0.17174164	1.12263768
EC:6.3.5.3	Inosine monc	0.08896751	-0.8595733	-1.0437801	-0.511127	-0.1141094	-1.1544321	0.22489055	0.9091381
EC:3.1.3.5		-0.7168142	-1.0507918	-1.8641687	-0.766961	-0.5550024	-0.5961872	-0.2927652	-0.0056165
EC:1.3.98.1	map00240 Ur	-0.0958114	-0.2149404	-1.2323887	0.88463808	0.5132628	-0.1883164	0.83218916	0.60950313

Supplemental Table 2 Tab 1

EC:2.7.7.53		-0.331195	-0.5302527	-0.6133733	-0.3381348	-0.3584367	-0.7034049	0.2514579	0.31539954
ıd metabolism		-0.3401802	-0.765962	-0.5908533	-0.0250545	-0.1282933	-0.4586238	0.07868086	0.47848636
EC:5.4.99.18	Inosine monc	-0.5010666	-0.8915319	0.83029227	0.06302702	-0.5459302	-1.0588232	-0.9043738	0.10845378
EC:1.3.98.1	map00240 Ur	-0.6731652	-0.9140962	-0.3980804	-0.5301129	-0.3478991	-1.0761803	-0.319875	-0.1562826
EC:6.3.4.18	Inosine monc	0.2461972	-0.7555752	2.15136465	0.01921747	0.00852437	-0.7114274	0.73737988	1.48432592
EC:1.17.4.1	Adenine nucl	0.29284729	-0.4298467	-2.7626908	-0.2928192	0.25082578	0.4625762	0.57911475	1.22587299
EC:2.1.2.3	Inosine monc	-0.164408	-1.0815233	0.70952798	-0.6123087	-0.3615837	-1.0092084	-0.4762561	-0.0768012
EC:3.5.4.5		-0.5763249	-0.7313272	-0.0041246	-0.0383795	-0.0443719	-0.2825379	1.2563992	0.96176638
EC:3.5.4.5		-0.5763249	-0.7111908	-0.0216068	-0.0383795	-0.0133648	-0.3072208	1.27251887	0.98314289
ıd metabolism> G - Carbohy		-0.317568	-0.7266967	-1.529966	-0.2563499	-0.3352563	-1.0305762	-0.307343	0.55620358
EC:2.7.4.14	Pantothenate	0.41523012	-0.8975809	-1.3104519	-1.2299652	-0.3928473	-1.1879949	0.20060541	-0.1893397
EC:2.7.7.1		-0.5569564	-0.5124731	3.87182765	-0.1575523	-0.6024212	2.0322723	0.94126103	-0.1013119
ıd metabolism> J - Translati		0.55990145	-0.2427686	-0.3466298	-0.6130239	-0.3959708	-0.1326733	1.20257236	1.75635587
ıd metabolism> J - Translati		0.47944695	0.28064119	0.23030887	-0.5786456	0.08820481	-1.5752419	-0.0335394	-0.7879347
ıd metabolism> J - Translati		-0.9895459	-0.1836892	-4.0508219	-0.7208577	-0.7285076	-1.6985684	-1.6585568	-0.1064914
EC:3.6.1.11		-0.6245655	-1.0554089	-0.3193675	-0.3785614	-0.4218824	-1.3303794	-0.6416476	0.26868256
EC:3.5.4.1	beta-Alanine	-0.44273	-1.3656471	-0.3199465	-0.4096244	-0.2763109	-1.9127852	-0.0088647	0.13909527
EC:2.4.1.21		0.12040256	-0.2619457	0.07501875	0.15659606	0.17686288	-0.6679647	0.21236866	0.57429947
EC:5.4.2.1	Gluconeogen	0.49837336	-1.2646936	-1.4123362	-0.5130994	-0.0789056	-2.7354363	-0.3958138	-0.1573098
t and metabolism		-0.3359919	-1.1757289	0.75705462	0.43397512	-0.0930172	-0.994516	0.68602744	0.95640083
EC:2.4.1.25		-0.4712103	-0.9887532	-1.5505518	0.17189613	-0.1621581	-1.0573401	0.40444769	1.54070919
EC:2.2.1.2	Pentose phos	-0.8841497	-0.5121483	-1.221855	0.87816206	-0.1498975	-1.2965084	0.14036084	0.53355148
EC:2.7.1.11	Formaldehyd	-0.5629335	-0.8536893	-2.3349789	-1.62439	-0.3121439	-1.6791375	-1.0135967	-0.3518053
t and metabolism		-1.252456	-1.1028108	2.22602173	0.02434151	-0.7418459	0.26665135	-0.5374176	-0.1340726
EC:2.2.1.1	Pentose phos	0.67473155	0.05959794	-0.4999502	0.64960853	0.14877702	-1.2104685	0.54235154	0.61056796
t and metabolism		0.44231757	-0.0365337	-0.5416712	-0.3065145	0.07284826	-0.306617	0.40927362	0.51836076
3C transporter	map02010 L-	-0.0699913	-0.5446782	-1.2181686	-0.1596818	-0.1244778	-0.6041694	0.06956644	0.72150918
EC:2.7.7.22	Ascorbate bic	-0.3420232	-0.5571565	-0.4621659	-0.6175594	-0.2686877	-0.9690278	-0.5492173	0.31806026
EC:2.7.1.31	Formaldehyd	0.20260055	-1.1607246	-0.7250084	-1.4169109	-0.1446745	-1.9419483	0.46001017	0.53964042

Supplemental Table 2 Tab 1

EC:1.1.1.49	Entner-Doud	-0.7212245	-0.8228808	-3.2230482	0.03603346	-0.1906044	-0.7661004	-0.2819218	0.70154533
EC:5.4.2.1	Gluconeogen	0.1032673	-0.4043967	1.33475632	0.15350194	-0.1749627	0.01032799	0.32542089	0.72691849
t and metabolism		-0.0858199	-0.7796662	-1.2697985	-0.6716567	-0.248748	-1.270247	-0.0304471	0.43793576
t and metabolism		-1.1592966	-0.762386	-2.0584969	-1.2933772	-0.5633883	-1.4029573	-0.6929654	0.06349795
EC:2.4.1.1		-0.3230348	0.38578216	-1.8112205	1.09151591	0.10800469	-0.2882221	-0.1477877	0.3743153
EC:2.7.1.4		-0.7519995	-0.604478	-0.1526091	0.04691513	-0.5091967	-0.0534227	-0.0358365	0.72408099
EC:2.7.1.40	Glycolysis (En	0.11482662	-1.1332457	-1.1572678	-1.3845468	-0.334518	-1.1739744	-0.4141155	-0.2207449
EC:2.4.1.1		0.29269854	-0.4433121	-0.0895181	0.8697095	0.15107072	-1.5051153	0.59574632	1.72032707
EC:1.2.1.12	Gluconeogen	-1.3886416	-1.4726716	-2.9561625	0.64324959	-0.1506035	-2.5819542	0.41129444	2.04252189
t and metabolism		-0.2606378	-0.3209867	-4.3652282	-0.6255585	0.28881417	-0.9245728	-0.0759147	0.13219058
t and metabolism		-0.607448	-0.5735728	-4.9550387	-1.1973529	-0.1447281	-2.3718333	-0.6222334	-0.8572975
t and metabolism		-0.0471792	0.11950756	-4.805699	-0.5538513	0.55757351	-1.9463338	0.02881604	-0.4094256
t and metabolism		-0.9209991	-0.6234561	-5.5782537	-1.3470106	-0.0080673	-2.2837883	-1.1267639	-0.481434
t and metabolism		-1.3827831	-1.1332846	-4.0422011	-1.7390254	-0.388299	-2.7354088	-1.3860334	-0.314757
t and metabolism		0.19335058	-0.5647676	-1.9005958	-0.4375442	0.27093663	-1.0813543	1.51847543	1.30351468
t and metabolism		-0.0197451	-1.1089772	-1.4247966	-0.956229	-0.3763093	-0.7563001	-0.085542	0.02221038
EC:5.4.2.10		-0.7772783	-1.2781241	-0.3922136	-0.6402698	-0.5095688	-0.9737659	-0.3584166	0.62362348
t and metabolism		-1.4113843	-1.1328052	-1.6207662	0.30939366	-0.507635	-0.6328105	-0.4880921	0.63565697
t and metabolism		-0.1391848	-0.1895806	-0.1158026	1.11068524	-0.1271037	-0.2795552	0.78175011	0.50841052
t and metabolism		-1.0307487	-0.8588858	0.16425433	0.30655046	-0.0883357	0.65295855	0.8597868	1.49205919
t and metabolism		0.59382067	-0.596406	1.0781739	-0.6774207	0.1195076	-0.7630522	1.89702265	1.75719524
t and metabolism		-0.5217039	-0.5012461	-4.8746335	-1.7919842	-0.3499449	-2.5086388	-1.4295042	-0.4532431
3C transporter	map02010 L-	0.06644999	-0.6659156	-1.7376343	-0.6798293	-0.0627352	-1.4900636	0.02687921	0.63566708
EC:3.1.3.11	Gluconeogen	0.56999245	-0.3836084	-1.5589716	-0.4403485	0.04009175	-2.0546073	-0.1433677	0.41223008
EC:2.7.1.23		-0.1181536	-1.0445181	-0.0691004	-0.5486577	-0.2454727	-0.4252153	0.43933841	1.02268857
EC:5.4.2.8	Ascorbate bic	-0.2333177	-0.6668925	-1.0172247	-0.255475	-0.3648121	-1.174965	-0.5760234	-0.1049378
EC:5.1.3.1	Pentose phos	0.03948465	-0.4977182	0.07409839	0.76783559	0.05892514	-1.5417462	0.07074822	0.99280359
EC:5.3.1.9	Ascorbate bic	0.1437452	-0.8245922	-0.8672673	-0.0346039	-0.1935417	-1.3276066	-0.4664052	0.23400246
t and metabolism		-1.0230371	-1.3464667	-2.6120423	-1.873177	-0.7467617	-2.4427805	-1.4114489	-0.1692827

Supplemental Table 2 Tab 1

EC:5.1.3.8		0.34567378	-1.0824757	-3.1994176	-1.198591	-0.1621651	-2.2692812	-0.450358	0.18690882
EC:3.1.3.25	Inositol phos	-0.1719191	-0.9964726	2.83028291	-0.2232024	-0.3027052	-0.1595089	0.64818848	0.83119897
t and metabolism		-0.7171779	-0.5886452	-0.1868932	-0.00017	-0.1722575	-1.0695852	-0.5239876	1.67047882
EC:5.3.1.6	Pentose phos	0.00239722	-0.3720196	-0.3465368	-0.7722297	-0.2176338	-0.3707781	0.53765039	0.46358717
t and metabolism		0.37373885	0.93234084	7.14140991	3.58202587	-0.4346265	0.45796607	0.62910771	1.58337333
EC:4.1.2.13	Gluconeogen	0.05940922	-0.1316724	-1.9423083	0.21410389	0.11121519	-0.9076656	-0.8162458	0.46843639
EC:3.1.3.11	Formaldehyd	0.17041901	-0.1310532	1.77239875	0.03639937	-0.3170449	0.10478662	0.24284227	1.39854991
EC:3.2.1.21		0.01992189	-0.2422642	-3.0063535	-0.7480266	-0.3362058	-1.1239016	-0.1275577	0.29135789
t and metabolism		-0.8357019	-0.9204589	-0.7835261	-0.3850024	-0.5979105	-0.7404979	-0.8650237	-0.2401882
EC:2.7.2.3	Gluconeogen	0.96170656	-0.0965886	-2.0042184	0.61843156	0.3396116	-0.9590504	0.40500591	0.64959197
EC:2.7.1.23		-0.3983675	-0.5291707	-0.5577664	-0.5670424	-0.4651636	-0.3173214	0.8000816	0.65851353
t and metabolism		0.08620297	-0.8054854	0.09383863	-0.5568059	-0.1110878	-0.9466355	0.23966182	0.7811795
EC:5.4.2.1	Gluconeogen	-0.494328	-0.7641874	-2.1947296	-0.7407741	-0.460722	-1.2111335	-0.6461782	-0.0061767
EC:2.4.1.21		0.33266782	-0.2457434	-0.8941661	-0.4611425	0.03998536	-1.4723053	0.06410769	0.5313233
EC:3.2.1.24		0.42904784	-0.4392832	-0.6944281	-0.4374009	0.05945352	-0.5628002	1.3248957	0.83032876
t and metabolism		-0.1837079	-0.1391253	-0.0943585	0.90054646	0.05659195	-0.0625581	0.80974671	2.09657562
EC:2.4.1.18		0.42064225	-0.6067306	-1.1570797	-0.7511158	0.18041215	-0.858988	0.08846867	0.24755034
EC:1.1.1.44	Pentose phos	-0.5312587	-0.2474014	-2.0407018	1.03001354	0.13094222	-1.6351866	0.58928871	0.80519457
eiosis - yeast		-0.7782822	-0.2666556	-2.0534598	-2.0955952	-0.9617976	-1.240213	-1.9428796	-1.7589891
EC:5.3.1.1	Gluconeogen	1.0772288	-0.4228919	-1.4173259	-0.3919724	0.09984516	-2.0191698	0.41290936	0.43360927
EC:4.1.2.13	Formaldehyd	0.94491293	0.50153747	-0.1185364	0.49434658	0.41524617	-0.0698989	0.04766836	0.52677176
EC:4.1.1.39	Reductive pe	0.60316759	-0.1908062	-1.9276016	-0.1800582	0.36405155	-0.1028036	1.07235374	0.0848846
EC:5.3.1.8	Ascorbate bic	-0.5868547	-0.8803872	-3.4046083	-0.4678211	-0.5330898	-1.1011008	-1.2186182	-0.428419
t and metabolism		-0.4948142	-1.1101776	1.74092097	0.97961355	-0.120181	0.11099094	1.02473853	1.70019978
EC:5.4.2.1	Gluconeogen	-0.4584735	-0.6625309	-2.7546893	-0.3675572	-0.2604364	-0.4245142	-0.4870949	0.1725326
EC:5.3.1.6	Pentose phos	0.26538605	-0.8917171	0.70003094	0.08064831	0.40521369	-1.8684575	0.15118696	0.04389328
EC:5.-	map00540 AI	-0.4284671	-1.027302	-2.7513323	-1.2224739	-0.2842624	-1.302891	-0.9359057	0.13049743
EC:2.7.1.2	Glycolysis (En	-0.7553231	-0.923001	-0.3571343	-0.6407155	-0.7517142	-0.8030005	-0.5207906	-0.0739634
t and metabolism		-0.4299636	-0.5686749	-0.2004965	-0.0542562	-0.3652605	3.46202208	0.5021897	0.6627732

Supplemental Table 2 Tab 1

EC:2.7.1.40	Glycolysis (En	-1.2849589	-1.0831682	-1.2782433	0.84651797	-0.12124	-1.2861441	-0.5523186	0.94304604
EC:4.1.2.14	Entner-Doud	-0.1826185	-0.4636091	0.67269869	-0.0685241	-0.3921038	-0.7914099	1.04502908	1.16997497
EC:2.7.9.2	Dicarboxylate	-1.696807	-0.7466673	-0.3668828	-0.8250471	-0.7256135	-0.3792484	-0.6565458	-0.979908
EC:3.2.1.17		-0.0680791	-0.2042962	-0.9349892	0.143425	0.25462097	-0.2102017	1.37846441	0.75469804
vo-component system		-0.76068	-0.7688804	0.38355466	0.13079557	-0.5127851	0.54584702	0.51915393	0.25404626
EC:2.7.1.11	Formaldehyd	-0.0073863	-0.3604581	-0.3296455	0.21676821	-0.1284634	-0.0476791	0.35763674	-0.0058819
3C transporter	map02010 al	0.77439939	0.75731733	6.106142	2.89463383	0.54605523	0.48349692	1.22055029	1.10519742
3C transporter	map02010 al	0.69205081	0.42345969	4.8559702	2.34104677	0.28824244	0.13941713	0.59678226	0.44152332
3C transporter	map02010 al	0.38790428	-0.2152539	4.02241634	1.51989983	0.11410149	-0.2630344	0.6513516	0.03642729
t and metabolism		0.22183056	-0.786773	-2.3960513	-0.3624177	-0.155996	-1.7774824	-0.8377472	0.02384523
t and metabolism		0.8736748	-0.1754677	-0.2700118	0.18354866	0.03607643	-0.8004835	0.56469391	0.48752548
EC:2.7.1.17	map00040 Gl	-0.1917812	-0.6021913	0.0204215	-0.8995371	-0.3517227	-0.1866087	0.32017281	-0.3911412
EC:1.2.1.59	Glycolysis (En	0.12177483	-0.6043068	-1.8464333	-0.6317052	-0.1040783	-1.9850744	-0.3811774	0.02198659
EC:3.1.3.25	Inositol phos	-0.6151049	-1.0078304	-0.3600614	-0.418215	-0.5737006	-0.5734882	-0.1886978	0.86939808
t and metabolism		-0.6301959	-0.9854295	-0.1201154	-0.4257199	-0.6038282	-0.5563509	-0.529536	0.28011514
EC:3.1.1.31	Entner-Doud	-1.7201979	-1.1104165	-2.5567288	-0.2717116	-0.9363971	-1.1769558	-0.9042014	0.85618411
3C transporter	map02010 M	0.72983805	0.30928253	3.36535802	1.81917927	0.2307062	-0.5597737	1.38426185	1.06992077
EC:4.2.1.11	Formaldehyd	0.36970107	-0.6572505	-1.6959535	-0.1755906	0.04148809	-1.6710932	-0.2526018	0.90964353
EC:5.4.2.2		-0.2957972	-0.4463751	-2.1242848	0.09224493	-0.1404949	-1.8263432	-0.7945196	-0.6755422
t and metabolism		1.23706772	-0.7646503	2.41901453	0.12988527	0.13340771	-2.0015067	0.0345032	-1.8357754
t and metabolism		0.14001215	0.39582013	-1.6837687	1.14761091	0.49501928	-0.4600776	0.85049238	1.28672865
EC:2.7.7.27		0.33618857	-0.5618827	-3.4286056	-0.065766	0.22922436	-2.1690564	-0.2788637	0.34485637
EC:4.2.3.3		-0.7267785	-0.8831526	-2.7896692	-1.1703176	-0.5036129	-0.0066622	-0.1379092	-0.2446716
EC:2.7.7.13	Ascorbate bic	-0.4669029	-0.8386917	0.09407868	-0.378471	-0.3800864	-0.2569502	-0.068487	0.77694503
EC:2.7.1.2	Glycolysis (En	0.08301998	-0.6985656	-0.351711	-1.1667442	-0.3764189	-1.5487107	-0.3053067	-0.3967524
EC:1.1.1.271		0.28937903	-0.5316347	-1.4342441	-0.1773672	0.11394938	-0.7408243	0.1592293	0.14366858
3C transporter	map02010 Li	-0.1203719	0.27652104	-1.5520979	-0.5363414	0.03295579	0.5206319	-0.1229376	0.76868894
3C transporter	map02010 Li	0.10885245	0.18075099	-2.3843495	-0.8952995	0.18198309	-0.0553448	0.01770456	0.32554218
EC:4.2.1.45		-0.0890835	0.088393	-1.5353088	-1.0060849	-0.0027531	0.11853855	0.05505042	0.35233125

Supplemental Table 2 Tab 1

t and metabolism> M - Cell		0.91951	0.51170086	-1.4820303	-0.2622103	0.58155	0.37170303	0.99494782	0.49378503
EC:3.13.1.1		0.15794339	-0.1945902	-0.3295055	-0.1137065	0.04288597	-1.2387725	-0.0718205	0.16210614
EC:1.1.1.219	Flavonoid bio	0.15023017	-1.2760985	1.2386473	-0.9834821	-0.2984305	-0.4814116	0.23652511	0.00145398
t and metabolism> M - Cell		0.45073324	-0.0793744	0.000822	0.13089285	0.33391272	-1.1120106	0.21330646	0.97711831
t and metabolism> M - Cell		0.16755068	-0.6281091	0.73126586	-0.0935147	-0.003589	-0.2041569	1.30316709	0.78195182
t and metabolism> M - Cell		-0.4667654	-0.8756459	-1.5689785	-0.5149044	-0.485468	-0.6756116	0.14056779	-0.4253603
t and metabolism> M - Cell		-0.1518294	-0.7561092	-2.3672271	-0.4306304	-0.1195815	-1.3017886	-0.6302954	-0.6656458
EC:4.2.1.46		-0.2224373	-0.8690042	-1.0764359	-0.7082962	-0.1638966	-0.9891458	-0.3018195	0.51880713
t and metabolism> M - Cell		0.78238219	0.55083873	-0.1697549	0.24381468	0.86391352	0.78132672	1.72713272	2.06454451
t and metabolism> M - Cell		0.03402148	-1.3169714	0.33918331	-0.765759	-0.1571916	-0.7654375	0.78323626	0.44244584
t and metabolism> M - Cell		0.24157252	-0.7091041	-0.6563847	0.05186729	0.10206847	-0.6814359	0.20458858	0.46680067
EC:1.1.1.271		0.08457819	-0.9067359	-0.1696985	-0.9678434	-0.0993652	-0.6913372	-0.0623252	0.21979482
t and metabolism> M - Cell		-0.3626369	-1.075858	-0.7331135	0.18523948	-0.3122184	-0.14992	0.18752012	-0.0756338
t and metabolism> M - Cell		0.35344758	-0.26565	0.31574485	0.72186099	0.21036534	0.56792499	1.16810915	0.08097938
t and metabolism> M - Cell		0.98075243	-0.6268829	-3.2536963	-0.8927107	0.21477396	-2.7416781	-0.1415587	0.09657211
t and metabolism> M - Cell		1.16931033	-0.4591806	-1.0246503	-0.4745115	0.39227181	-1.3894043	0.98666756	1.12579607
t and metabolism> M - Cell		-0.1331961	-0.289013	-2.1804368	-0.7654281	-0.0954337	-1.2316303	0.39513424	0.86964145
EC:4.1.1.2		-1.5256261	-0.9368523	-4.1452393	-1.5364903	-0.741933	-1.9611958	-1.4258203	-0.4716346
t and metabolism> S - Funct		-1.3265098	-1.1715799	-1.3921213	-0.4440211	-0.5243112	-0.8873202	-0.8082342	0.11608489
EC:2.5.1.84		-1.1557244	-1.4894211	0.67672665	-1.4123703	-1.3770676	-0.7614341	-0.6018243	-0.0204013
d metabolism		1.71908978	-0.1865287	1.26309027	-0.2134814	1.09218731	-0.4706202	2.17602017	-0.8023357
d metabolism		-0.6972555	-0.415952	-1.415185	-0.3969558	-0.2758219	0.04674339	-0.0098538	0.08206644
d metabolism		-0.00458	-0.3251898	-1.6265272	-0.5380846	0.17994	-0.2332553	0.33255248	0.89871583
EC:2.5.1.1	C10-C20 isop	-0.6122299	-1.1246011	0.03622679	-0.8291937	-0.5983596	-1.5005119	-0.9761283	-0.2786662
EC:2.1.1.133		-0.5104694	-1.4086114	-1.3217373	-1.7504338	-0.6381457	-0.5536514	0.85801225	0.60519074
EC:1.3.1.54		0.96194646	-0.8351543	3.36053132	-0.1421451	0.33659274	-1.0352113	1.86573845	2.01658929
EC:2.7.6.3	map00790 Te	-0.6617146	-0.657699	1.79842039	0.02484413	-0.7473221	0.30904616	-0.192556	0.42239262
EC:4.1.1.-	Ubiquinone b	0.36538743	-0.6331357	1.06378391	-0.4466132	-0.1416763	-0.738941	0.89961049	1.33309468
EC:6.6.1.1		-0.3467256	-1.0694905	0.98865251	-0.1335319	-0.6129078	-0.9514259	-0.455446	-0.1170106

Supplemental Table 2 Tab 1

EC:2.6.99.2	map00750 Py	-0.0077378	-1.2461666	-2.6343862	-1.1762826	-0.3400178	-1.5939237	-0.5599646	-0.0845115
EC:2.7.4.16	map00730 Th	-0.4932063	-0.4173114	0.22344498	0.13415946	-0.2204541	-0.7013683	0.58376128	1.12813779
EC:6.3.4.15		-0.6899319	-0.7503273	1.24946708	-0.7595307	-0.5298393	-1.1777298	-1.3226697	-0.2181158
EC:2.1.1.-	Menaquinone	0.16919234	-0.5893718	2.35065241	-0.0483931	-0.1090007	-0.1399735	-0.0661567	-0.0097136
EC:1.3.3.3	Heme biosyn	0.05709611	-0.3206073	-2.1681282	-0.3936989	-0.1453829	-2.6921609	-0.7568769	-1.769322
EC:4.1.1.-	Ubiquinone b	-0.5369954	-0.8677698	-1.1098545	-0.3875655	-0.556969	-0.4962703	-0.211253	0.389092
EC:2.1.1.131		-0.8249602	-1.4846384	-2.6864868	-0.6517403	-0.6487319	-1.1082977	0.05240776	0.59554853
EC:2.5.1.6	Ethylene bios	0.91489903	-0.9855689	-2.5181922	-1.1199422	0.33858425	-1.9300314	0.31981888	0.60692798
d metabolism		1.10892264	0.58591936	-1.0351959	-0.0203728	0.84294529	0.15504885	1.271078	0.80595459
d metabolism		0.86777248	0.56373244	-5.0491082	-0.3076005	0.97367863	0.10932986	1.61652826	0.75849963
EC:2.5.1.3	map00730 Th	-0.112515	-0.7418385	-0.9352523	-0.7665532	-0.4184678	-1.2678916	-0.0579761	-0.159196
EC:2.8.1.8		-0.3362074	-0.9509091	-1.6925638	-1.4973518	-0.4133817	-0.5617682	-0.5039702	-0.1811551
EC:6.3.5.11		-0.4401272	-0.4958342	-1.0338328	-0.726036	-0.3945688	-0.8279975	0.41184033	0.61493219
d metabolism		-0.5121503	-0.6395503	-0.1697024	-0.4376007	-0.841776	-1.1186415	0.20437827	0.51204055
EC:6.6.1.1		0.25262212	-0.2779635	-1.641042	0.18261803	0.14518635	-0.1326439	0.25457412	-0.1165586
EC:6.3.3.2		-0.459854	-0.2364925	1.04531221	1.08259245	-0.1028361	1.02762242	0.9165296	1.49232127
EC:6.6.1.1		0.19423443	-0.7929866	-0.6654663	-0.424705	-0.1796674	-0.9183309	-0.1921071	-0.3918826
d metabolism		-0.3276278	-0.6619359	-0.0304449	-0.1601998	-0.2400267	-0.6260076	-0.0848974	0.33310617
EC:1.3.99.22	Heme biosyn	0.0527978	-0.5199525	1.15214764	-0.367452	-0.0689878	0.0240837	1.92333404	1.18303614
EC:2.7.7.18	map00760 N/	-0.367169	-0.7884396	0.81420593	-0.8558085	-0.2064292	-0.1901544	0.41717491	0.08365
EC:2.5.1.15	map00790 Te	-0.9144046	-0.8143366	-0.6932677	-0.7742898	-0.5925563	-0.1394698	0.09107547	0.5305799
EC:6.6.1.2		1.02355088	-0.281771	-0.6359533	-0.0424069	0.2428699	-0.7696245	2.32912832	1.11321061
EC:2.1.1.195		0.2006723	-0.7677845	-1.4234205	-1.0999809	-0.1833694	-0.2303775	0.70837329	0.24548108
EC:4.1.3.36	Menaquinone	-0.4483789	-0.9730837	-0.3263122	-0.1560743	-0.3019243	-1.7204779	-0.3499538	0.94394107
EC:2.5.1.78	map00740 Ri	-0.4745774	-1.021942	-0.4778329	-0.5347061	-0.271598	-2.9239582	-0.7276103	-0.3262083
EC:2.8.1.6	map00780 Bi	-0.4205156	-0.9327903	-0.3804775	-0.6974468	-0.4633693	-1.7273389	-0.7159057	-0.3208293
EC:2.1.1.196		0.14618555	-0.8693689	0.07632934	0.09401294	-0.2549928	-0.8193188	0.3589853	1.76874104
EC:2.8.1.8		-0.5316558	-0.9318583	-0.8789145	-0.6098734	-0.0868841	-0.0799483	-0.1303132	-0.5009607
EC:2.1.1.130		0.6891775	0.05630378	0.2896458	0.10871861	0.37845273	-0.4011965	1.13988523	1.28839265

Supplemental Table 2 Tab 1

EC:2.7.1.26	map00740 Ri	-0.0384184	-1.0689999	1.05842804	0.0478184	-0.0259045	-0.2926953	1.29327168	1.41636711
d metabolism		-0.4520785	-0.7960625	0.50761571	-0.2864925	-0.5047517	-1.3747216	0.14540511	0.87278334
EC:2.5.1.61	Heme biosyn	-0.2350361	-0.9368195	-1.1168524	-0.8284866	-0.3700164	-1.1775859	-0.5383466	0.00868008
EC:1.2.1.70	Heme biosyn	-0.5668827	-1.086667	-3.6505266	-0.8164114	-0.3428755	-2.2545862	-1.6498544	-0.9824628
d metabolism		0.2752862	-0.5249975	-2.031601	-0.2923353	0.27532631	-0.4373745	0.43402322	0.78818804
osynthesis of	Tocopherol b	-0.6378537	-0.479338	-2.1816464	-0.2645188	0.05656249	-0.6554114	-0.0143437	0.42946703
d metabolism		-0.0285243	-0.0411431	-0.3155541	-0.0352414	-0.2134404	-0.5268796	-0.6070156	0.67461217
EC:6.3.2.12	map00790 Te	-0.3648547	-1.7307838	-2.8818264	-1.499872	-0.4136197	-1.3534922	1.37387124	0.94388363
EC:2.5.1.17	map00860 Co	-0.1716688	-0.7676876	-0.8890844	-1.1474645	-0.5574681	-0.9078412	-0.2216067	0.37601998
EC:4.1.1.36	map00770 Co	-0.6571681	-1.1040668	-0.3373648	-0.1521492	-0.3837926	-1.4075487	-0.5532707	0.76756324
EC:2.5.1.-	Menaquinone	-0.644518	-1.0938414	-2.2391036	-0.9565173	-0.4301993	-1.3161753	-1.0723469	-0.1509656
EC:4.2.1.24	Heme biosyn	-0.2721297	-0.7726121	-1.6988731	-0.494685	0.1665438	-0.9927701	-0.4999774	-0.6488526
EC:3.3.1.1	map00270 M	0.40302849	0.24585273	-0.7198151	0.92019656	0.2604837	-0.3280596	1.30531721	1.5807225
EC:2.7.7.63		-1.1454065	-0.9231568	-0.5281705	-0.513912	-0.7293078	-1.0146399	-0.0243681	0.67077054
d metabolism		0.09245629	-0.3791101	-1.2444083	-0.1321296	-0.3987517	-0.5095865	-0.6232303	0.31995935
EC:3.5.4.25	map00740 Ri	-0.5752865	-1.3335368	2.38847201	-0.4231431	-0.5808661	0.28660316	0.07062372	0.34616632
EC:6.6.1.2		-0.0716147	-0.5720684	-0.5771386	-0.0732879	-0.7112673	-0.5931826	-0.027157	0.05859465
EC:1.3.99.22	Heme biosyn	0.46273112	0.10865054	-0.9928529	-0.1097524	0.89933066	-0.6718417	1.19456296	0.45621781
EC:5.4.1.2		-0.860269	-0.9393324	0.54144914	-0.638241	-0.7377515	-0.4836511	-0.2024885	0.72082097
EC:1.4.3.5	map00750 Py	-0.5874329	-1.2254071	-2.1557879	-0.9486305	-0.5460334	-1.719384	-0.1392172	0.88171264
EC:2.4.2.19	NAD biosynth	-0.3603736	-0.4031192	1.26266346	-0.0329273	0.08497973	0.16606248	0.44660813	0.75076049
EC:5.4.1.2		0.20063175	-0.517361	-0.4800489	-0.5066196	0.00918692	-0.5880675	0.9725346	0.92352533
EC:4.1.2.25	map00790 Te	0.57329855	-0.4391865	-1.3295932	-0.4485263	0.24982915	0.02139772	0.78154769	1.22913465
d metabolism		0.79640318	-0.3578982	-3.8701056	-0.7722021	0.24132398	-1.7851755	0.58383004	0.25480713
d metabolism		-0.0461942	-0.5950108	-0.250639	-0.1277439	-0.1160048	0.11090462	0.05174468	0.27487028
d metabolism		0.01519079	-0.3015343	-1.0397181	-0.3315448	-0.049354	0.08452618	0.37593193	0.66873901
EC:6.3.1.10	map00860 Co	1.07174561	0.31486706	0.59887604	0.23223834	0.53997794	-0.0813326	1.64884225	1.31981341
EC:2.3.1.181		-0.23609	-0.6992854	-2.225633	-1.1225747	-0.4658835	-1.2260583	0.72801995	1.32231357
EC:2.5.1.9	map00740 Ri	-0.6351465	-0.6716056	1.51147494	-0.452899	-0.2164942	-0.684389	0.06881254	0.87164608

Supplemental Table 2 Tab 1

EC:2.1.1.107	Heme biosyn	-0.4497307	-0.4525165	0.47923044	-0.1083852	-0.268986	-0.1189682	-0.1114639	0.5402525
EC:1.5.1.5	C1-unit interc	-0.2811781	-0.9236088	-2.2262741	-0.8462107	-0.2092583	-1.1750367	-0.575876	-0.0927981
EC:5.4.3.8	Heme biosyn	0.70713035	-0.8788247	-1.8335512	-0.9059951	-0.1373705	-1.6242942	0.04209569	0.32796347
EC:2.7.1.156	map00860 Co	-0.2474253	-0.4200692	-0.6550616	0.25846935	-0.2482205	-0.0626192	0.57514377	0.63573868
lfur relay system		-0.127275	-0.480684	-2.1697025	-0.1443349	0.06333518	-0.8957493	0.00704457	0.69614027
EC:2.5.1.62		0.32097564	-0.569627	-2.0019416	-0.3611805	-0.1109013	-1.1266478	0.07728433	0.73690058
EC:1.1.1.193	map00740 Ri	-0.2732256	-0.7926515	-2.0890672	-1.3236395	-0.3695813	-0.8909179	-0.2001781	-0.1413999
d metabolism		-0.2563583	-0.8616808	-1.8948178	-0.3759475	-0.1284825	-0.7486376	0.2201752	0.50678212
EC:2.7.8.-		0.65326491	-0.1858121	-0.0321102	0.65405652	0.48995621	0.76703567	2.25345528	2.53834846
EC:2.7.8.26	map00860 Co	-0.3830037	-0.9880891	-1.0442259	-1.0922924	-0.7305017	-1.4923204	-0.1777577	-0.0323535
EC:2.2.1.9	Menaquinone	-0.6382106	-0.9545256	-1.9848425	-0.9917027	-0.5020839	-0.950552	-0.4867837	-0.0384391
EC:2.1.1.107	Heme biosyn	0.58097778	-0.4192185	1.4977035	-0.818208	-0.1360659	-0.7577279	1.58564729	0.70884531
EC:3.5.4.16	map00790 Te	0.75882798	-0.7639399	0.15301028	-0.6929556	0.46036506	-1.1695416	1.45461691	0.99506808
d metabolism		0.56908817	-0.2071926	0.31178469	-0.3471476	0.15924401	-2.3524318	1.20236769	-0.1344265
late biosynthesis>map0412		1.54986379	0.4893581	0.10333499	0.31905477	0.94189547	-1.3442017	2.29394118	0.92772067
late biosynthesis>map0412		0.98899475	0.0737512	-0.6134018	-0.2587757	0.27888335	-1.7701338	1.23951247	0.06687185
late biosynthesis>map0412		1.67527929	0.52999002	0.31559039	0.34322151	0.77888142	-1.2778659	2.28284054	0.44616332
EC:2.-		1.20942411	0.21824283	-0.7335424	0.12376205	0.93491496	-0.9556649	2.03712778	0.94050867
EC:2.3.1.47	map00780 Bi	-0.4972692	1.72717239	1.27013249	1.2242856	-0.0785915	0.14569846	-0.0393279	-0.244945
EC:4.1.1.11	Pantothenate	-0.3343889	-0.7429495	-0.3231189	-0.6977993	0.02456357	-0.2808194	0.1201451	0.62688012
lycyclic aromatic hydrocarb		-0.5442101	-0.9585871	-1.0472287	-0.7087755	-0.2785604	-0.1746982	0.24478118	0.8763999
EC:4.99.1.1	Heme biosyn	-0.7573997	-1.3983246	0.24558858	-0.4518185	-0.5348477	-0.2510989	-0.2612034	0.44319899
EC:2.7.7.3	map00770 Co	-0.2357499	-0.2763152	-0.1854869	0.26596089	-0.4226258	-0.8068948	0.55931313	1.34533645
EC:4.2.3.12		-0.2881026	-0.9259614	-1.0711441	-1.0230692	-0.7526274	0.20608126	-0.5839452	-0.3949292
EC:2.1.1.95	Tocopherol b	-0.6317928	-0.9636004	-1.5521806	-0.2171913	-0.2354295	-0.0188421	-0.1443957	0.51648092
d metabolism		-0.3697998	-0.8899525	-1.7627718	-0.5555444	-0.5365485	-1.251546	-0.0139141	0.08336642
EC:6.3.3.3	map00780 Bi	-0.3808598	-0.7348192	2.47843264	0.10929673	-0.5776713	0.422789	0.37655386	1.21363745
EC:6.3.5.10	map00860 Co	-0.638575	-1.1397499	0.23331643	-0.8698869	-0.6460825	0.13479358	0.04552935	0.48942382
EC:1.-		0.68975324	-0.195148	0.11416595	-0.2355228	0.31439271	-0.0035054	1.43807665	0.73813216

Supplemental Table 2 Tab 1

iamine metal	map00730 Th	-0.0501788	-0.0230046	-0.8619211	0.11414326	0.29332532	-1.3438745	0.30381826	0.44992237
d metabolism		-0.4150196	-0.9888496	-0.198464	-0.3017578	-0.0214752	-1.1375142	0.46330694	-0.0767177
EC:2.4.2.11		-0.5395874	-1.1862823	3.60909618	-0.5726162	-0.4838522	2.00320567	1.81297055	-0.479778
EC:1.1.1.262	map00750 Py	-0.4981928	-0.8427369	-1.309159	-0.5541863	-0.296559	-1.1593147	-0.0878764	-0.0553096
EC:2.1.1.11		-0.0041374	-0.8792153	1.5820552	-0.3513541	-0.1755831	-1.2457759	-0.150339	0.64023034
EC:2.1.2.11	Pantothenate	-0.1020699	-1.1400165	1.55254583	-0.8686868	-0.4646699	-1.1586163	-0.0188147	0.47299626
EC:4.1.1.37	Heme biosyn	-0.1719567	-1.0531025	-1.9877846	-0.8171515	-0.1741492	-1.8344394	-0.5147265	-0.7750844
EC:2.5.1.-	Ubiquinone b	-1.1886341	-0.6814466	-0.5467484	-0.1856339	-0.709084	-0.4861815	-0.8629538	0.27311593
EC:2.7.1.24	map00770 Co	0.71284637	-0.9143207	0.3965211	-0.7194989	0.16845529	-1.418057	1.05275216	0.57946121
d metabolism		0.71888386	-0.5507766	0.24706923	-0.6044579	-0.0487514	-0.3990534	-0.0168865	-0.3083363
EC:1.4.3.16	NAD biosynth	-0.512026	-0.8119937	-0.6643822	-1.2113087	-0.7374325	-1.1527649	-0.2361126	-0.2987362
EC:2.5.1.72	NAD biosynth	-0.0426385	-0.5068781	1.475976	-0.9442297	-0.6122562	1.05583272	-0.5632442	-1.0077363
d metabolism		-0.726049	-0.9684509	-1.5589222	-0.5224616	-0.2879905	-0.9310692	-0.8791565	-0.2809721
d metabolism		1.84535043	0.57633564	-1.3624882	1.52923501	0.91451585	0.99856577	2.2756064	1.87777546
d metabolism		0.51696643	0.32345446	4.06218861	0.98428126	1.17572729	3.44072171	1.39167043	0.23552585
EC:2.2.1.7	C5 isoprenoid	-0.0400505	-0.3916421	-0.7357221	-0.2771508	-0.1732342	-0.2623464	-0.4049291	-0.0644322
EC:6.3.2.3	map00480 Gl	-0.00263	-0.4422059	0.89852398	-0.5017783	0.06577093	-0.4832779	0.88905259	1.22724278
EC:5.4.1.2		-0.2932452	-1.5482811	1.76101693	0.05000843	-0.2710127	0.62493644	0.12526648	0.03472666
EC:3.6.3.34	map02010 Iro	-0.0059332	-1.186209	-0.290034	-0.7076159	-0.2122584	-1.8095261	-0.3318038	-0.3598929
lfur relay system		0.47903112	-0.0776784	-1.6090009	-0.7967601	-0.1326659	0.12925766	0.00694262	-0.2554912
EC:5.4.4.2	Menaquinone	0.05446712	-0.550999	-0.5245258	-0.581556	-0.3253252	0.111856	0.69186113	0.92995951
EC:2.5.1.77	F420 biosyntl	-0.9460307	-0.822177	-1.7066998	-0.2613176	-0.5284167	-0.1727023	-0.375915	0.5697046
EC:2.5.1.77	F420 biosyntl	0.06376708	-0.3090468	-2.2889554	-0.3120848	0.08494453	-1.1000562	0.12661919	0.22238345
EC:3.1.3.71	Coenzyme M	-0.0292485	-1.0936467	-1.4580599	-0.7843128	-0.3356704	-2.2960712	-0.19774	0.60049372
EC:6.3.1.5	NAD biosynth	0.33064252	-0.4683342	-2.0956545	-1.1075892	-0.0959516	-0.3240268	0.26578163	-0.0412287
EC:2.7.1.148	C5 isoprenoid	-0.6498592	-1.2160912	0.27010743	-0.449525	-0.8467791	-0.7251921	-0.1134842	0.41847838
abolism		-1.0326477	-1.2302824	-1.4916852	-1.3196838	-0.6553772	-0.7774126	-0.3036142	-0.3286156
abolism		-0.0965408	-0.1663774	-2.2171805	-1.6108993	-0.0902205	-0.8224195	0.66535175	0.43639158
EC:6.2.1.3	beta-Oxidatic	0.13493338	-0.2948325	-3.2414127	-0.5060031	-0.1189574	-1.0307384	-0.094108	0.08916209

Supplemental Table 2 Tab 1

EC:1.3.1.9	map00061 Fa	0.47876024	-0.4892417	-0.8705031	-0.2575649	0.09683853	-1.61145	0.12455429	0.48163517
abolism		-0.8976351	-1.1653477	2.10172056	-0.2234245	-0.310296	-0.0336024	-0.3387097	0.23958336
EC:2.3.1.39	map00061 Fa	0.45787067	-0.780842	-0.149795	-0.4172605	0.17202466	-2.0171078	0.58342653	1.00668685
EC:2.3.1.-		0.07263949	0.05543777	-1.6595859	0.83025138	0.40014426	0.30591209	0.42550136	0.99933047
EC:4.6.1.12	C5 isoprenoic	0.08553486	-0.8131152	-0.7233008	-0.56163	-0.1293048	-1.1597311	0.12979827	0.17729446
EC:1.14.13.-	Abscisic acid	-0.1655117	-0.281227	-2.0940972	-0.5184968	-0.0539719	-1.1124921	0.09838971	0.23557752
EC:2.7.7.41	Phosphatidyl	0.09254747	-0.6306114	1.21199683	-1.8378064	-0.5849922	0.09313761	-0.5844579	-0.4098693
EC:1.17.7.1	C5 isoprenoic	-0.2565016	-0.8222022	0.23919499	-0.3723844	-0.0012733	-1.509469	-0.1293236	0.94260239
abolism		-0.5583827	-0.6127422	1.0135101	0.05108615	-0.3124896	-0.404544	0.19090147	1.13814537
EC:2.5.1.32	beta-Caroten	-0.2281686	-0.9829377	-0.1395898	-0.1488653	-0.1937521	-1.0929165	0.32961056	1.01406646
EC:2.3.1.9	C5 isoprenoic	-0.8359645	-0.9618666	-1.6081177	0.56516136	-0.4343233	-1.2566337	-0.7665186	0.84037363
abolism		0.71289017	-0.9787597	-3.5518131	-0.8830643	0.57408451	-0.9656027	3.22658141	2.74081199
EC:4.2.1.-	map00061 Fa	-0.102368	-1.1020799	-2.6694333	-0.6659643	-0.2930891	-2.1573498	-0.6201367	0.05983376
EC:5.4.99.17		-0.1110838	-0.7064927	1.23813854	0.44211615	-0.1653146	0.17684276	0.17460379	0.45013989
abolism		-0.2905171	-0.9517383	1.03614118	-0.2441213	-0.445929	-0.3788709	0.62864487	0.6560444
EC:2.3.1.15	Triacylglycerc	-0.3417578	-1.0688886	0.20233676	-0.7858001	-0.3821636	-1.0528641	-0.468036	0.27978239
EC:2.3.1.180	map00061 Fa	0.12342285	-1.3362398	-1.3495456	-0.9342642	-0.210427	-1.3858741	-0.1849009	0.45829958
EC:1.14.19.-		0.17547104	-0.9576221	-2.5268951	0.08780899	0.22647369	-1.780185	1.21928871	1.5900444
EC:1.14.19.-		0.73051297	-1.0541371	-3.3593864	-1.4136503	0.366535	-1.28754	1.74717707	1.06164781
EC:2.7.7.60	C5 isoprenoic	0.50986812	-0.4445809	0.01474434	-0.7941668	-0.3585117	-1.3490425	0.17457813	0.07200778
EC:2.7.8.5		0.22554015	-0.0538703	0.46417392	1.07628476	0.0188062	0.18634438	0.92659212	1.69566641
EC:1.14.19.3		0.76658811	-0.533803	-5.0383174	-1.0289166	0.33987178	-1.5818379	1.54329619	1.16220275
EC:2.3.1.51	Triacylglycerc	-0.6227265	-1.445616	-1.4686169	-0.9207725	-0.8574814	-1.7011394	-0.8465087	0.06522336
EC:6.4.1.2	3-Hydroxypro	-0.2746294	-0.6776599	0.31571291	-0.5335054	-0.4240743	-0.7951835	-0.4379865	-0.0280608
EC:1.1.1.267	C5 isoprenoic	0.19543254	-0.6212617	-0.3472506	-0.4452219	-0.0467137	-1.5801239	-0.0561618	0.52964486
abolism		-1.2882075	0.74357901	-0.1694377	-0.1040686	-0.5285664	1.10342959	2.59532301	1.84257119
EC:1.1.1.31		0.2873955	0.05583649	-0.6410147	-0.3702512	0.29074123	0.03239743	0.59856484	0.55524104
rbon fixation	3-Hydroxypro	-0.2866489	-1.1998926	-1.4080918	-0.8045608	-0.5108146	-1.8769595	-0.4521443	-0.1117978
EC:6.3.4.14	3-Hydroxypro	-0.585012	-1.1379982	-1.5351649	-0.7143655	-0.5915558	-1.3673885	-0.325806	0.0131556

Supplemental Table 2 Tab 1

EC:6.2.1.1		-0.0711301	-0.643319	-2.276487	-0.9015244	-0.293534	-1.5083769	-0.7585849	-0.703847
EC:1.14.19.1		-1.0078861	-0.3724514	-2.1658775	0.45578101	-0.1485428	-0.7898154	0.61373437	0.08088584
abolism		-0.4129277	-0.8066415	-0.7823632	-0.4157936	-0.4087172	-0.3257649	-0.0960266	0.36696425
EC:2.5.1.21	Cholesterol b	-0.4877214	-1.0742993	-2.1901777	-1.1849143	-0.4020369	-2.1205767	-0.8897029	-0.0333727
EC:2.5.1.31		-0.8603883	-0.9460228	-0.6005413	-0.8917558	-0.535495	-0.5692547	-0.5123716	0.31808887
EC:6.4.1.2	3-Hydroxypro	-0.217704	-0.978594	0.94992296	-0.0621891	-0.372583	-0.9171907	-0.1535416	0.19260859
abolism		-0.8037695	-0.6291273	0.34015942	-0.4715381	-0.6372803	-0.4991334	-0.0475894	1.19507603
EC:3.1.1.1		-1.0250329	-0.9185931	-0.9033349	-0.7080674	-0.6114391	-0.3573797	-0.2809664	-0.3682198
abolism> L - Replication, rec		-0.2282646	0.25266961	-1.2904752	-0.0432957	-0.0613673	0.00152796	0.01621535	0.49089815
EC:1.17.1.2	C5 isoprenoic	0.41775388	-0.4166954	-0.8714027	-0.2380581	0.1494723	-0.5635998	-0.021013	0.19522701
EC:2.3.1.179	map00061 Fa	0.70185894	-0.4385404	-2.327166	-0.419302	0.10097682	-1.602221	0.46475725	-0.1173612
abolism> Q - Secondary met		0.58435619	-0.5411254	-4.6636916	-0.9297008	0.00440007	-2.2691459	-0.154928	-0.2770692
EC:2.3.1.179	map00061 Fa	0.80241002	-0.4125018	0.44646577	-0.0638946	0.19189187	-1.1859314	1.0983136	0.91589306
EC:6.2.1.26	Menaquinone	-0.5414293	-0.6715979	-2.0523138	-0.7013841	-0.3830928	-0.3871213	-0.0470292	0.45135394
abolism> Q - Secondary met		-0.0969528	-0.1797612	-1.710255	0.96646808	-0.1737917	0.60736459	-0.0073494	1.01560162
EC:1.1.1.100	Fatty acid bio	0.02966482	-0.9861321	-2.1771643	-0.7237094	-0.1478296	-1.5612914	-0.4174829	-0.4558457
EC:1.1.1.47		-0.3690193	-1.092922	-1.8515194	-0.4883421	-0.415821	-1.6679226	0.23904861	1.37406287
abolism> Q - Secondary met		0.42492187	-1.2694565	-0.9771643	-1.1136663	-0.2116563	-0.8088594	1.11937787	2.06595971
EC:1.1.1.100	Fatty acid bio	-1.0301686	-0.8219348	-2.1344461	0.58231294	-0.3567973	-1.2834001	-0.4419952	1.061149
abolism> Q - Secondary met		-0.5390933	-0.7666957	-1.6969759	-0.599015	-0.2475518	-0.482976	0.28681685	0.64694293
abolism> Q - Secondary met		0.00909284	-0.7424606	-0.4003987	-0.8263605	0.11052486	-0.5679628	0.36106185	0.43134803
EC:1.1.1.100	Fatty acid bio	0.14679593	0.00318809	-1.4155073	-0.7991196	0.15724109	-0.0686743	0.54878306	0.85940102
abolism> Q - Secondary met		0.0864546	-0.5686821	-0.7076232	-0.2161586	-0.106925	-0.8256303	0.02827795	0.47153804
tructure and biogenesis		0.45605381	-0.4491647	2.32212341	0.16431469	0.11538706	-0.0813596	1.95974304	1.96865354
EC:3.1.26.12	map03018 RN	-0.4779172	-0.6870271	1.9661579	-1.2102059	-0.4497099	-0.745504	-0.3039972	-0.6437889
EC:2.7.7.8	RNA degrado	0.39384973	-0.2970483	-0.8406282	-0.3848052	-0.1589436	-0.9382037	0.62214764	0.15884864
tructure and biogenesis		-0.3599045	-1.0729262	-1.491494	-0.538117	-0.4145245	-0.9150202	0.36863453	0.11882812
tructure and biogenesis		-0.3615104	-1.2727257	0.78261353	-0.6602695	-0.5984245	-0.5718765	0.06019146	-0.1520595
tructure and biogenesis		0.91347856	0.60133983	0.67160397	1.10879739	0.94731098	0.29224353	1.49262595	2.22060286

Supplemental Table 2 Tab 1

tructure and biogenesis		-0.3798802	-0.0747162	-3.2594108	-2.2125962	-0.7055027	-4.3342189	-2.3480009	-2.070038
bosome	map03010 Ri	0.41445796	-0.0020479	-0.9310533	-0.7263173	-0.2336458	-0.3906191	-0.6795649	-0.3005925
bosome	map03010 Ri	0.9503644	-0.0566518	-0.0572364	-0.5603747	0.01032715	-1.2213631	0.37728628	0.14221302
tructure and biogenesis		-0.10009	-0.413498	0.09653181	-0.1274355	-0.1139757	-0.1484009	0.39167345	0.74535011
tructure and biogenesis		-0.0677641	-0.7351266	0.03017632	-0.3554665	-0.3665259	-0.9201052	0.20908788	1.01060954
tructure and biogenesis		-0.2164218	-0.6231634	-0.6772464	-0.5054453	-0.4024502	-0.530091	-0.1325455	0.67409968
tructure and biogenesis		1.67513708	0.02868638	2.27300264	0.10849113	0.75687901	1.21395828	2.47370122	1.68989441
bosome	map03010 Ri	-0.3441224	-0.8415515	-0.8895985	-1.3338867	-0.7457983	-1.6292283	-0.8373994	-0.6242035
tructure and biogenesis		0.11467565	-0.8556668	-0.794998	-0.8627781	-0.1590156	-1.1776831	-0.2478801	-0.5998749
EC:6.1.1.1	map00970 Ar	0.79560426	-0.4435055	-0.9359221	-0.2885172	0.17204215	-0.7505846	0.41515564	-0.348987
EC:6.1.1.1	map00970 Ar	0.51687286	-0.4736221	-0.7976661	-0.2332084	-0.0766692	-0.6168783	0.47256955	-0.982248
EC:6.1.1.11	map00970 Ar	0.59706854	-0.5049454	-3.0635911	-0.7513242	0.25892048	-1.6725508	0.51595108	0.24315757
EC:6.1.1.4	map00970 Ar	0.23643234	-0.4711077	-1.0788235	-0.7781327	-0.1430353	-0.9316706	0.23226346	0.08834103
bosome	map03010 Ri	1.32164859	0.02549525	-0.5389443	-0.4607253	-0.0068746	-0.9250294	0.39022933	-0.0487087
bosome	map03010 Ri	1.86193741	0.32674346	0.16969768	0.03592399	0.36736266	-0.6807995	1.12711998	-0.0159521
bosome	map03010 Ri	1.36504069	-0.109831	-0.0642116	-0.2520713	-0.271532	-1.0658243	0.59138017	-0.6820954
bosome	map03010 Ri	1.88017897	0.24604403	0.15672005	0.10402668	0.34841235	-0.5252706	1.20736723	-0.4485957
tructure and biogenesis		1.42831133	-0.2113708	0.82365879	-0.2592644	-0.0737318	-0.5500751	0.86078493	-0.4201958
bosome	map03010 Ri	1.74350293	-0.1227115	1.11885897	-0.4614644	0.12247029	-0.2418012	0.90076752	-0.49016
bosome	map03010 Ri	1.56495329	-0.4127267	0.88245721	-0.7923164	-0.2287031	-0.9241229	0.70658462	-0.6509421
bosome	map03010 Ri	1.89793171	0.06245809	0.95597085	-0.591317	0.29135361	-0.6643385	1.10173313	-0.1076843
bosome	map03010 Ri	3.35862444	1.57629493	2.22257671	1.10877017	1.64150507	0.85163734	3.06692151	1.32751994
tructure and biogenesis		2.67791852	0.63713775	2.1123457	0.26236558	1.01499612	0.25729059	1.75953978	0.40062173
bosome	map03010 Ri	1.64421988	-0.4204002	1.41960202	-1.0537589	-0.2185566	-1.1266307	0.80568162	-1.1733049
bosome	map03010 Ri	1.95144991	-0.3335781	1.75252369	-0.9713047	-0.0009455	-1.134331	0.9339801	-1.1599517
bosome	map03010 Ri	2.04572781	-0.3390022	1.62222312	-1.0160428	-0.0060196	-0.9692137	1.11076329	-1.3002356
bosome	map03010 Ri	2.290149	-0.1804938	1.65454064	-1.0473143	0.19808037	-0.9852246	1.3178925	-1.5667342
bosome	map03010 Ri	3.04690155	0.21662271	2.28645768	-0.7781921	0.74869221	-0.5334253	2.03967803	-1.2793499
bosome	map03010 Ri	2.83484906	-0.0216557	2.23770371	-0.9331608	0.55546614	-0.5873544	1.80061347	-1.316671

Supplemental Table 2 Tab 1

bosome	map03010 Ri	2.60663028	-0.1724375	2.11745295	-1.0376138	0.40876051	-0.8359327	1.49566384	-1.4923577
bosome	map03010 Ri	2.59002721	-0.1265692	2.0911705	-1.0293467	0.39243144	-0.778845	1.50742674	-1.2867088
bosome	map03010 Ri	2.69098955	-0.1631372	1.82603269	-1.0792308	0.53832945	-0.6602693	1.66722033	-1.441468
bosome	map03010 Ri	2.64086434	-0.1269273	1.84674109	-1.032598	0.42150797	-0.6713383	1.57564989	-1.4088013
bosome	map03010 Ri	2.18663914	-0.5712768	1.71583086	-1.2838733	-0.0097483	-0.9618506	1.12763811	-1.7042529
bosome	map03010 Ri	2.27329369	-0.5260162	2.52338186	-1.1463796	0.09774319	-0.7542187	1.27599055	-1.6825517
bosome	map03010 Ri	2.19570536	-0.6160278	2.5290192	-1.2586845	0.00622157	-0.6941739	1.16769728	-1.7939818
bosome	map03010 Ri	2.69718816	-0.0690216	2.74040584	-0.7569549	0.51510322	-0.2695034	1.74967806	-1.3906465
bosome	map03010 Ri	2.50535398	-0.3231087	2.77051565	-1.1412496	0.25947609	-0.4951045	1.55175706	-1.4284922
bosome	map03010 Ri	2.58006857	-0.2171665	2.78699809	-1.2409127	0.51100824	-0.2862093	1.68064148	-1.3177133
bosome	map03010 Ri	2.00572241	-0.6840234	2.62584125	-1.5902624	-0.0867954	-0.6481333	1.05286297	-1.4991493
bosome	map03010 Ri	2.36074526	-0.3590035	3.22588328	-1.4021085	0.32833417	-0.3961585	1.47321741	-1.2077603
bosome	map03010 Ri	0.40883766	-0.3818727	0.32959678	-0.7516218	-0.3280759	-0.4641118	0.00452736	-0.1651375
›lycyclic aromatic hydrocarb		-0.0990576	-1.0571708	2.0426921	-0.7662689	-0.3618329	-0.7562895	0.32196036	0.50768119
bosome	map03010 Ri	2.5690532	-0.346822	-0.0265897	-1.4425038	-0.0097412	-1.2024377	1.1654894	-0.930813
bosome	map03010 Ri	2.81302389	-0.1474884	0.45528233	-1.3425486	0.27534683	-1.2097848	1.38974632	-0.8437096
bosome	map03010 Ri	2.40032054	-0.2619822	1.80248784	-1.0404169	0.17876628	-0.7586323	1.22993319	-0.1789116
bosome	map03010 Ri	2.00429183	-0.2880376	1.30379403	-0.7792226	0.02807912	-0.8883031	0.95196425	0.06372564
bosome	map03010 Ri	1.11211137	-0.179028	-0.0500445	-1.1369652	-0.0416001	-0.5682092	0.48347864	-0.4924519
tructure and biogenesis		-0.0839034	-0.8241696	2.09260957	-0.260952	-0.2168295	-0.4812056	-0.2466357	-0.1077318
EC:6.1.1.6	map00970 Ar	0.37319937	-0.9721668	-0.5690383	-0.899081	-0.0681929	-1.8761425	0.27719898	0.21299222
tructure and biogenesis		0.02641605	-0.9874042	2.82798057	-0.1008334	-0.3246261	-0.7054137	0.31535355	0.78510059
EC:6.1.1.5	map00970 Ar	0.39833664	-0.9954041	-0.7646613	-0.3520199	-0.0017233	-1.2173388	0.45875677	0.38240143
bosome	map03010 Ri	0.62102	-0.8064853	0.27628315	-1.276011	-0.150781	-0.7168936	0.37808861	0.01426754
EC:6.3.5.6		-0.3415104	-0.920099	1.4154735	-0.1033415	-0.4710127	-1.379661	-0.176134	0.31799871
bosome	map03010 Ri	2.11831138	-0.1095139	0.85616561	-0.6518784	0.41635198	-0.482668	0.90927911	-0.0466776
EC:6.1.1.2	map00970 Ar	0.5114668	-0.7885143	-1.6308713	-0.3272068	0.19899275	-1.4888958	0.2678498	0.80069827
EC:2.8.1.-		-0.4343759	-0.9218274	1.6817422	-0.2378401	-0.5576937	-0.1132304	-0.2703236	-0.0033161
tructure and biogenesis		0.14163362	-0.7528632	-0.2731132	-0.7152813	-0.2123144	-1.0021879	0.35386317	0.61569244

Supplemental Table 2 Tab 1

EC:6.1.1.12	map00970 Ar	0.39347535	-0.928235	-2.0451038	-0.9083324	-0.2046648	-1.446905	0.07735043	0.21122606
tructure and biogenesis		0.30568122	-0.7692898	-1.4578928	-0.7334773	-0.2464126	-1.825174	-0.0341853	-0.1635202
tructure and biogenesis		1.31738417	-0.391467	-2.9768547	-0.7859646	0.53462188	-0.7629608	1.44961773	0.66705255
EC:6.1.1.15	map00970 Ar	-0.8509487	-1.1415835	0.52104912	-0.9028829	-0.6474417	-0.8285599	-1.0411689	-0.2996926
tructure and biogenesis		-0.1829563	-0.171228	0.73482477	-0.3820383	-0.3584989	0.22975031	0.69596421	0.92750794
tructure and biogenesis		0.75076449	-0.8579899	-0.9287011	-0.7192697	0.38721113	-0.2996204	0.55309947	0.66565045
EC:2.5.1.75		0.2551683	-0.6715192	0.88102187	0.44924573	0.17211256	-0.5667433	1.50475219	1.6515127
tructure and biogenesis		2.05587239	-0.2872453	-0.8077271	-0.166412	0.20670649	-0.9809987	0.75504838	0.88830982
bosome	map03010 Ri	2.00032663	-0.6321649	-0.3083068	-1.3609318	0.07162631	-1.1226249	0.72758599	-0.1774185
bosome	map03010 Ri	0.91956622	-0.0284902	-1.3486516	-0.9077217	-0.2363644	-1.3507533	-0.1078849	-0.3397909
bosome	map03010 Ri	0.01583699	-0.8518526	-1.7459633	-1.2123034	-0.0400557	-0.7090842	0.03865093	0.23798334
tructure and biogenesis		-0.0281712	-0.1545644	0.68311469	0.36056736	-0.2936359	-0.6947854	0.21962108	0.45009427
tructure and biogenesis		1.19317896	-0.3611567	-0.3989121	-0.8519404	-0.0885651	-1.2065839	0.15915466	-0.453569
EC:6.3.5.6		-0.3639509	-1.0211592	0.88437591	-0.5428292	-0.4570163	-0.8003842	-0.4207901	0.14857433
bosome	map03010 Ri	2.7106412	0.46587893	-0.0937584	-0.5471396	0.69885032	-0.3578257	2.13338917	0.13601007
ant-pathogen interaction		1.64691755	0.25352903	-0.1876057	-0.0011201	0.34246149	-0.4583529	0.8458301	0.09534208
tructure and biogenesis		0.80076746	-0.1568898	0.94331531	-0.2855638	-0.1912186	-0.1479391	0.26064224	-0.140261
bosome	map03010 Ri	1.48283125	-0.4511096	1.33201783	-1.2221546	0.04006073	-0.4432299	0.85473402	-0.0460497
bosome	map03010 Ri	1.26954654	-0.5287121	0.14347423	-1.5664892	-0.1509168	-0.9882016	0.61431618	0.16797749
tructure and biogenesis		-0.302235	-0.059563	3.46047371	1.96984993	-0.1478611	-0.6742508	0.11638503	0.94398549
bosome	map03010 Ri	0.76488939	-0.2739571	0.25155487	-0.4190589	-0.6155859	-0.4004595	-0.1588609	-0.3773096
bosome	map03010 Ri	0.84893869	-0.0922968	0.18606881	-0.3747898	-0.4275797	-0.3471712	-0.1855582	-0.2384595
EC:6.1.1.20	map00970 Ar	-0.1179777	-0.9845096	-2.0460606	-0.9622544	-0.3042319	-1.248268	-0.3058731	-0.4954494
tructure and biogenesis		0.4963066	-0.7680811	-2.6723183	-1.633092	-0.1828872	-2.0252119	0.67878523	-0.0126537
tructure and biogenesis		0.4836772	-0.3345937	-0.6988361	-0.542887	-0.2125806	-1.1505341	0.93925878	0.40153011
EC:6.1.1.16	map00970 Ar	-0.0431932	-0.8533213	1.0547467	-0.2503629	-0.1429728	-0.5958194	0.26116952	0.95225371
tructure and biogenesis		0.01758344	-0.8045139	-1.3940173	-0.2405332	-0.0731846	-0.8025516	0.12500722	0.63920738
bosome	map03010 Ri	0.0624014	-0.3574468	-1.7872421	-0.7226164	-0.4934197	-0.9982127	0.18700036	-0.0345057
EC:6.1.1.7	map00970 Ar	-0.1135548	-1.0838782	-0.3683094	-1.0819438	-0.3621818	-1.1913199	-0.3345502	-0.3065183

Supplemental Table 2 Tab 1

tructure and biogenesis		0.27384231	-0.7487945	-1.7426986	-0.5832915	-0.079953	-2.1166681	-0.4989049	-0.1427396
tructure and biogenesis		-0.283983	-1.205976	-0.0447367	-0.3575347	-0.5439463	-0.2353592	0.50230854	0.52017089
EC:5.3.1.23	map00270 M	-0.2859823	-0.93466	0.40697503	-0.1206762	-0.2257123	-1.1893561	-0.0935792	0.17642399
tructure and biogenesis		0.11739128	-0.3551716	0.07963584	-0.9252234	-0.116796	-0.6724002	0.19294713	-0.0080782
tructure and biogenesis		-0.5450252	0.10702632	-1.9327386	-0.6496291	-0.3274168	-0.9725726	-1.4538019	-1.3651485
tructure and biogenesis		-0.0851276	-0.7033448	-0.1310391	0.23246402	-0.3481039	-0.5192771	0.2012616	1.17402084
bosome	map03010 Ri	1.1243248	0.28381436	-1.546615	-0.5980422	-0.0211838	-0.8419854	0.65038515	0.14171116
bosome	map03010 Ri	1.73753623	0.59669072	-1.0817177	-0.1443363	0.45102456	-0.5681726	1.19983288	0.43852001
tructure and biogenesis		-0.6365127	-0.849561	0.09889475	-0.5387248	-0.628846	-1.1114506	-0.6590062	0.50180526
tructure and biogenesis		-0.1792314	-0.6846878	-1.9754481	-0.0622708	-0.1699018	-1.4372723	-0.5235125	-0.121941
EC:6.1.1.21	map00970 Ar	0.15494139	-1.1241031	-0.200302	-0.0590302	-0.3584924	-1.2027081	0.01265702	0.2460104
tructure and biogenesis		-0.0689966	-0.0885869	-0.2077075	-0.9248395	-0.5104801	3.53792434	0.12894986	-1.439973
EC:6.1.1.14	map00970 Ar	-0.1509673	-1.1856022	-0.9530947	-0.6029205	-0.5377325	-1.7668154	-0.4334258	-0.2032134
tructure and biogenesis		-0.5543958	-1.1352474	-0.7824048	-0.8161873	-0.7430617	-0.251615	-0.5847051	-0.3431845
tructure and biogenesis		-0.0201473	-0.9671175	-1.566194	-0.6546114	-0.1567872	-1.8978612	-0.3549702	0.03747757
EC:2.1.2.9		0.30576349	-0.4449748	-0.9752294	-0.3070722	-0.0962865	-1.2157994	0.28201648	0.83616581
bosome	map03010 Ri	1.06533665	-0.4623379	0.12195327	-1.0281968	-0.4175075	-1.0335761	0.06414362	0.05644573
EC:6.1.1.20	map00970 Ar	0.0708674	-0.6376053	0.64511687	-0.2601694	-0.1389153	-1.1502461	0.15714382	0.49036559
bosome	map03010 Ri	1.06534125	0.05602391	1.30906934	-0.1350313	-0.0859621	-0.7320592	0.040577	0.73733667
EC:6.1.1.14	map00970 Ar	0.42861582	-0.3267273	-0.5638487	-0.2986234	-0.0330626	-0.866404	-0.2206825	0.38648897
tructure and biogenesis		-0.2243957	-0.8184321	-0.766302	-0.8034528	-0.2683408	-0.979167	0.64324825	0.22418994
EC:6.1.1.10	Aminoacyl-tR	-0.3398519	-0.7600917	-0.3632593	-0.8524629	-0.2395898	-0.7950136	0.32849973	-0.0691545
EC:6.1.1.17	Aminoacyl-tR	0.5879915	-1.0760773	-0.8814746	-0.7020835	-0.2926521	-0.8237034	-0.0027901	-0.7140795
tructure and biogenesis		0.26633316	-0.823603	1.35207741	0.53592149	0.08379103	-0.1621495	0.46326484	0.94549769
tructure and biogenesis		0.06309108	-0.2698512	-2.2295893	-0.5203041	-0.3821443	-0.0186603	-0.1841876	-0.2275762
tructure and biogenesis		-0.2139923	-1.2935215	1.05305112	-0.5263467	-0.4882863	-1.1685979	0.09253025	0.30579826
NA transport		0.23798667	-0.1109009	1.32086632	-0.4179385	-0.1156184	-0.0604141	-0.0134712	0.55933062
bosome	map03010 Ri	1.74146741	-0.1837879	-0.803387	-0.612336	0.17808411	-0.9613723	0.77313284	0.14953505
bosome	map03010 Ri	1.76472352	-0.0170514	-0.9490685	-0.987856	0.08829124	-0.9195051	0.93800692	0.09286957

Supplemental Table 2 Tab 1

tructure and biogenesis		-1.2130904	-0.6989883	-2.0957633	-0.8515182	-0.7892492	-0.8663134	-0.9618784	-1.3014734
EC:3.5.1.4		-0.3183341	-1.1282544	0.14564351	0.07266677	-0.6149674	-1.0554129	-0.2154483	-0.6865734
EC:2.7.7.19		0.65751725	-0.7686122	-1.1989196	-0.9220583	-0.3925473	-1.3611594	0.99910638	0.46502921
tructure and biogenesis		-0.3119267	-1.0813694	3.58853549	-0.0538613	-0.2767873	0.37976975	1.27687363	0.27431136
EC:6.1.1.3	map00970 Ar	-0.0545411	-1.0494353	-0.5660121	-1.0437705	-0.2996076	-0.9070748	-0.4038565	-0.1966028
tructure and biogenesis		0.49404588	-0.8788618	-1.3652712	-0.9485566	-0.1331783	-1.1167697	0.30388958	-0.5210644
tructure and biogenesis		-0.0864192	-1.1097158	-0.2400355	-0.7270688	-0.3815157	-1.4410375	0.3460368	0.51161258
tructure and biogenesis		0.65902135	-0.3690581	-1.4212092	0.15884913	0.16757319	-1.0347964	0.35378747	0.47128942
tructure and biogenesis		0.10048749	-1.3941169	4.44141454	0.84733166	-0.3154318	-0.557141	1.03316806	0.92698291
tructure and biogenesis		-0.7082098	-1.0866576	-2.6450478	-0.3686131	-0.4955673	-1.4135612	-0.7820622	-0.0935323
tructure and biogenesis		-0.295327	-0.9346725	-2.1340893	-0.8087339	-0.0056425	-2.1381141	0.11941144	0.35728448
EC:6.3.5.6		-0.2595249	-0.9108223	0.6028757	-0.7528403	-0.589815	-0.7965289	-0.2071002	-0.0087744
tructure and biogenesis		-0.7180456	-0.9142252	-0.1220631	0.43278	-0.4182408	-0.8884415	0.21273986	0.83968404
EC:6.1.1.19	map00970 Ar	0.34779804	-0.5669491	1.02645334	-0.5358489	0.18866272	-0.5788202	0.57628787	0.84213178
EC:6.1.1.22	map00970 Ar	0.04183189	-0.8986161	-0.8392721	-0.9425884	0.00542854	-1.385042	-0.1188999	0.67582906
EC:6.1.1.9	map00970 Ar	0.25682453	-0.5180785	-0.9630524	-0.3058928	-0.013384	-1.1725888	-0.1665815	-0.1355244
tructure and biogenesis		0.73225646	-0.6501962	0.43437767	0.11614231	0.16818507	-0.9509681	0.5440208	0.27160031
tructure and biogenesis		-0.0828378	-0.9010956	-0.3827449	-0.6287719	-0.3679898	-1.418785	0.20030273	0.9509993
tructure and biogenesis		0.15529297	-1.0385158	-0.937131	-1.3799502	-0.2438749	-1.4336544	-0.179561	-0.2281321
tructure and biogenesis		0.38706932	-0.3778778	-0.7663596	-0.4092709	0.11360748	-0.1285276	0.10205045	0.25250559
EC:3.6.4.13		0.07196228	-0.5574716	3.72618925	0.3600497	-0.1261789	-0.2493098	2.17711897	0.04890243
EC:2.7.7.33		0.06756025	0.00841011	-2.4606079	-1.032972	0.03919989	-0.3582716	-0.060931	0.24074378
EC:2.7.7.13	Ascorbate bic	-0.2162973	-0.9392951	-1.2372876	-0.2433433	-0.300262	-1.1997505	-0.410673	0.47320724
tructure and biogenesis> M		0.21772452	0.0094991	0.25276757	-0.3369698	-0.1881636	3.1001292	0.55415533	-0.0432398
EC:2.7.7.19		-0.3355732	-0.8814402	-1.5955442	-0.6764824	-0.3914354	0.07112519	0.41461304	0.08694243
		0.71193245	-0.9346518	-1.0467197	-0.3515576	0.23717794	-1.9238398	0.71265907	-0.1903183
		1.23767496	-0.8240642	-1.4910336	0.50650655	0.8215247	-0.6924832	1.89671219	-0.3428451
		1.0193352	-0.4492138	1.21110115	0.28185506	0.2529771	-0.1832164	0.85639197	-1.020479
		-0.4695752	-0.7852065	3.24534619	-0.893775	-1.2599061	-0.733257	0.05427754	0.01495757

Supplemental Table 2 Tab 1

		-0.7031525	-0.864262	-0.9998252	-0.6036168	-0.343519	-0.5128132	-0.6175663	-0.2130464
		0.97765473	-0.7592004	1.74464158	-0.538081	-0.0176342	-1.7886237	0.88468224	-0.0852628
		0.82595436	-0.3715738	1.76686953	-0.2277929	-0.0109257	-0.4559675	0.90835876	0.33858091
		-0.7084643	-1.0478556	-1.6750614	-0.3810568	-0.3983657	-0.5133507	-0.450504	0.38458425
		-0.2563116	-0.5549588	-0.8352874	-0.8728693	-0.255134	0.34408025	0.02689879	0.12332284
		-0.6764549	-0.8343825	2.15221103	-0.0325622	-0.6253642	0.31928406	-0.3744954	0.22209206
		-0.602669	-1.0322152	-1.6509788	-0.9769221	-0.446674	-0.2724596	-0.8276634	0.98245004
		-0.2034308	-0.7364628	-0.2995721	-0.5825629	-0.3150975	-0.4814789	0.12859757	0.60547561
		-1.3647851	-1.175208	-2.8071149	-1.4640657	-0.6010654	-0.548754	-0.7893082	0.18856264
EC:3.1.-		-0.0563881	-0.5848566	0.14983017	-0.8784736	-0.3890054	-1.0556938	0.1167572	-0.6996357
EC:2.7.7.6	RNA polymer	2.03844177	-0.0936229	1.52675116	-0.4598849	0.22814086	-0.5412086	1.29142523	-0.5419425
EC:2.7.7.6	RNA polymer	1.00815982	-0.1822998	1.53389574	-0.5162822	-0.2449957	-0.4853016	0.3871795	-0.6450285
EC:2.7.7.6	RNA polymer	0.81252861	-0.2462663	1.08309669	-0.4844325	-0.1939591	-0.4684762	0.21487571	-0.6556992
		-0.2721669	-0.5685097	-2.2240123	-1.0330171	-0.3584453	-0.9293579	0.3645516	-0.1686267
		1.3987689	-0.2727977	1.96974772	-0.7853382	-0.1936454	-0.0223911	0.93816641	-0.2982935
		-0.8172015	-0.6190804	-0.9872726	-0.8127216	-0.4222164	-1.019166	-1.1361983	-0.3823603
		-0.4809331	-0.467575	-0.4267841	-0.693289	-0.1613236	-1.3630936	-0.4069186	-0.2840344
		0.04269797	-0.7489507	-0.9979962	-0.5293512	-0.0333658	-1.4028264	0.13338688	0.86882951
		-0.6021321	-1.4312758	-1.3611613	-1.5972338	-0.4955771	-2.0516464	-0.6308725	0.20101481
		0.41789069	0.08334266	4.28361966	-0.3640363	0.20645088	0.55210646	0.97886295	0.58636069
brio cholerae pathogenic cy		-0.4979975	-1.1660749	3.81154583	-0.0638955	-0.0174505	1.17369551	0.91239999	0.14250577
brio cholerae pathogenic cy		-1.4627637	-1.4269178	-2.6583478	-0.7766051	-0.4102823	-0.7911682	-0.1343754	0.37361616
		-0.1665755	-0.0915107	-0.7766965	-0.1943872	0.0492563	0.72553272	0.32944947	0.98623551
		0.75248151	-0.3917721	#NUM!	-0.4644174	0.89304284	0.28110221	1.78259882	0.61963268
		-0.8626698	-1.0470548	-3.3148668	-0.7051311	-0.4184861	-1.9037715	-1.4317708	-0.2136017
		-0.1837331	-0.1904493	-3.4328822	-0.2781874	-0.0206012	0.26668701	0.62435526	1.58630347
		0.72853597	-0.5713329	4.73004322	-0.8048962	-0.2403633	0.77022499	1.28527028	-0.0235528
EC:2.7.1.33	map00770 Co	0.11109905	-0.7647086	-1.1696541	-0.476123	-0.1796694	-0.5519496	0.68594999	1.09508085
		-0.2088367	-0.7228905	-2.3095781	-1.1819184	-0.1733901	-0.8569698	-0.213131	0.54296174

Supplemental Table 2 Tab 1

EC:2.7.7.6	RNA polymer	0.71633018	-0.2189935	0.79395034	-0.7313824	-0.1476912	0.03973239	0.16729765	-0.4329107
EC:2.7.7.6	RNA polymer	0.22776292	-0.2037585	-1.6161127	0.09781358	0.17113395	-0.8330979	0.34655601	1.46987194
EC:3.1.26.3		0.04543464	-1.0144588	-0.1314052	-0.619685	-0.2339173	-1.9048774	0.21806071	0.79654394
		-0.6306054	-0.9496497	-0.5996848	0.0324414	-0.5265838	-1.2068785	-0.1300003	0.13944174
		1.02342747	-0.3760276	-0.8218114	-0.4836521	0.15189654	-0.6075135	1.78815003	0.48699886
brio cholerae pathogenic cy		-0.3089479	-0.138796	3.32115677	-0.2795822	-0.2581549	0.37198132	-1.0345662	0.11991656
		-0.1181691	-0.2743394	-0.4078657	-0.4415229	-0.2954172	-0.3882937	-0.1569394	0.65244985
EC:3.1.26.3		0.05057055	-0.4571419	-2.8997584	-0.5748787	-0.0696214	-0.7088921	-0.2475915	0.04644246
		0.18443629	-0.086639	0.03973424	0.30672991	-0.0855505	0.88975662	1.96166244	1.48598131
brio cholerae pathogenic cy		-0.8759443	-0.7814852	-0.2692495	-0.2590883	-0.5092911	0.48906133	-0.6943366	0.72182456
		-0.1143405	-0.4086079	6.45348799	-0.0375371	-0.1779906	-0.3327719	0.87763594	0.9530954
		0.43456876	0.387394	2.3540265	0.0214127	0.17217268	0.58882928	1.23823549	0.88950624
		0.12694467	-0.5512158	2.4521838	-0.6979195	0.33729227	0.68428169	0.40116361	0.38442307
		0.14025658	-1.1570293	2.53705488	-0.449755	-0.6633122	-0.4267856	0.29549313	-0.1661349
		-1.4906655	-2.0701615	-4.0277299	-1.5888055	-0.8706861	-3.3545567	-0.8234406	-0.5564322
		-1.4083903	-1.8777186	0.92343463	-0.9314422	-0.8961998	0.36623835	0.95365064	0.59058904
		-0.1174006	-0.0447514	-2.6799106	-0.4850992	-0.2995905	0.24122966	-0.2606734	-0.536054
		-0.6165103	-0.6361902	-0.8366558	-0.622078	-0.3678103	0.10763118	-0.7886107	-0.2131279
		-0.9237814	-0.8630138	-1.5473624	-0.8937714	-0.5316923	-1.1722892	-0.9291051	0.20371029
		0.46040223	-0.3788036	6.25700153	0.41370184	0.47609979	-0.5497242	0.77674103	0.08092258
		0.55996342	0.51602663	0.33281676	-0.0610845	0.65493107	0.76929638	0.89708458	0.23297511
		0.14491914	0.00673325	3.20198766	-0.715555	0.84331354	0.07992354	1.96300579	0.62464107
		-0.055424	-0.6917872	3.23590178	-0.1943984	-0.4840161	-0.1144079	-0.1354047	0.0084771
		-0.3790125	-0.7971043	-0.5670381	-0.1485706	-0.2064301	-0.9691329	0.27966595	0.38001538
		-0.2213546	-0.7496208	0.95158928	-1.1250913	-0.1839111	-0.1232781	-0.0614123	-0.3819785
		0.1157834	-0.5307811	1.55610109	0.16220405	0.47850191	-0.1326217	0.42579758	0.04212775
cation, recombination and r		0.0961162	-0.7247042	1.67328112	-0.8781775	-0.6365331	0.20921582	0.82898494	-0.400275
EC:3.6.4.12		-0.4071469	-0.6715337	-0.4326682	-0.0878087	-0.0965016	-0.4320787	0.7802022	0.88169248
EC:3.6.4.-		0.0471481	-0.5040975	0.2425583	0.05791621	-0.0291416	-0.2962175	0.79961224	0.83621275

Supplemental Table 2 Tab 1

cation, recombination and r	-0.629341	-0.6444512	-0.9094655	-0.5337575	-0.3170652	-0.7138633	0.10603575	0.62080801
cation, recombination and r	-0.7764105	-1.0587658	-0.5077561	-0.4240145	-0.6231668	-0.4001566	-0.4524286	0.46102963
cation, recombination and r	-0.585886	-0.8294544	-0.1959357	-0.7070115	-0.461771	-0.1502473	0.27518154	0.72856166
cation, recombination and r	-0.528999	-0.5583629	-0.7361078	-0.7310288	-0.4131538	0.14821096	-0.4480805	0.39726414
cation, recombination and r	-0.5875404	-0.824401	-0.0480964	-0.405822	-0.500583	-0.4476617	-0.295543	0.46853744
cation, recombination and r	-0.2368518	-0.660627	-1.7827949	-0.6701766	-0.1520693	-0.1579105	0.51463875	0.88581636
cation, recombination and r	-0.6128551	-0.4218894	-0.3446034	-0.2394354	-0.3737221	0.00106571	0.39808437	0.72378618
cation, recombination and r	0.38699892	1.08147338	-0.2659994	0.26683462	0.73164906	1.10681236	0.89385987	0.1508302
cation, recombination and r	-0.9544142	-0.8127456	-1.2439625	-0.271489	-0.5362018	-0.6747203	-0.5046364	0.57348178
vo-component system	-0.8955854	-0.693582	-1.684414	0.19221162	-0.3359276	-0.6215367	-0.5953053	0.54134121
vo-component system	-0.4693601	-0.5562367	0.26123318	-0.6647292	-0.7589805	-0.5369172	-0.4533488	-0.6138266
translational modification, p	-0.1868687	-0.8393572	-0.8833956	-0.5083912	-0.3797579	-0.4528029	-0.4872247	0.47188052
translational modification, p	1.01600116	0.07642137	1.84410639	-0.5497592	0.23062897	-1.4598219	0.7326635	-0.6359443
translational modification, p	-1.0516249	-0.8768607	-0.6678291	-0.2986182	-0.1507185	-0.4329349	-0.6080513	0.50695284
anic ion transport and meta	-0.5008823	-0.5583433	-0.3083068	0.13461673	-0.685762	0.50498518	0.52790801	0.67575398
l transduction mechanisms	-0.3213489	-0.9093134	0.3761808	-0.436942	-0.4038354	-1.3446248	-0.5301085	0.22015932
EC:2.7.6.5	-0.6422053	-0.8521805	-1.5202321	-0.6454426	-0.1200156	0.2847417	-0.2560119	0.46247494
l transduction mechanisms	-0.2294612	-0.3140629	-0.0404216	-0.1549888	0.15170715	-0.499285	0.72669892	1.53851433
vo-component system	-0.9730947	-0.7660152	-0.7546669	-0.4897865	-0.5873174	-0.1566403	-0.1171504	0.4487112
vo-component system	-0.0063084	-0.3297035	-0.4361004	-0.2299938	0.01614744	-0.0578055	0.03147971	0.58376922
l transduction mechanisms	-0.0131599	-0.6315848	-1.9082776	-1.1891603	0.11735332	-1.3237733	0.02785827	0.17508416
l transduction mechanisms	0.75631151	0.06531415	0.87470223	-0.2968491	0.22647595	-0.2553062	1.07050484	1.09507907
vo-component system	0.13444313	0.01908888	-1.9134558	0.40997894	0.50522743	-0.392599	0.28498962	1.2444955
vo-component system	-0.9023957	-0.0542604	-2.2138275	0.95914421	0.13659237	-0.2121431	0.39124274	1.99099818
l transduction mechanisms	-0.1479839	-0.9240425	-1.8089531	-0.1713051	-0.1244332	-1.1719839	-0.647522	0.6782177
l transduction mechanisms	-0.6176291	-0.427672	-0.2396921	-0.3439082	-0.5359868	0.57511389	0.41464685	0.27228891
vo-component system	-0.2361051	-0.4395078	-0.6048033	-0.4999529	-0.1769052	0.19797982	-0.1915791	0.55809001
l transduction mechanisms	-0.249143	-0.5077787	-3.7682928	-1.5517536	0.18661671	-1.7063781	0.33634281	0.75948938
l transduction mechanisms	-1.1712439	-0.7987213	-0.0290345	-1.0775622	-0.9006229	-0.2973323	-0.0811308	0.11094451

Supplemental Table 2 Tab 1

l transduction mechanisms	-0.0723911	-0.1454481	0.14353707	-1.7403949	-0.5260381	-0.5654978	-0.8785942	0.07201989
l transduction mechanisms	-0.3947158	-0.8465172	-0.0527095	-0.5222132	-0.3237799	-0.1493261	0.15492058	0.7169335
l transduction mechanisms	-1.1181725	-0.9615008	-0.6428538	-0.7267542	-0.6889118	0.24753328	-0.5771438	-0.1427978
l transduction mechanisms	-0.475475	-0.3444286	-0.3964681	-0.8175199	-0.4673983	-0.3447588	0.42793058	0.30107757
l transduction mechanisms	-1.039477	-0.8725126	-2.4211863	-0.0602548	-0.7169406	-0.5882963	0.29464373	0.6042271
l transduction mechanisms	0.48131439	-0.1087292	-1.0441035	-0.4839058	0.54550068	0.04423078	1.04243603	0.60764625
l transduction mechanisms	-0.206114	-1.272229	-1.1889924	-1.5222437	0.1025346	0.32537196	-0.6214731	-0.3493103
EC:3.1.7.2	-0.2884162	-1.2623012	-0.1160451	-1.4222517	-0.5683358	-0.2532735	-0.7893374	-1.1975974
l transduction mechanisms	-0.5712765	-0.9261154	0.21282671	-0.6274824	-0.6532939	-0.1806971	-0.3401512	-0.0523297
EC:2.7.13.3	-0.6959688	-0.6596837	0.05102249	-0.0773595	-0.3000959	0.34216855	0.79412059	1.18818967
l transduction mechanisms	-0.6365833	-0.8164165	-0.6755786	-0.4845276	-0.7090895	-0.8739203	-0.3996319	0.59383661
l transduction mechanisms	-0.3477543	-0.7775987	-0.3829376	-0.8201315	-0.2893301	-0.5942932	-0.347974	0.48397033
l transduction mechanisms	0.5403281	-0.4306778	-0.8104335	-1.0306927	0.4878411	-0.4152169	1.00280348	1.08309203
l transduction mechanisms	-0.2703584	-0.6338942	-2.3144057	-1.1009377	0.04632427	-0.7494415	-0.1559319	0.96424114
l transduction mechanisms	0.07333485	-0.6442722	-0.7477853	-0.6012091	-0.269268	-0.7743324	0.03096767	0.40715003
vo-component system	-0.5026132	-1.2340891	-0.5289322	-0.7204318	-0.1554315	-1.0665861	-0.316667	0.63006764
l transduction mechanisms	-0.1755497	-0.3587975	-0.2878329	-0.7141099	-0.006033	-1.1758559	0.26409567	1.44451259
vo-component system	-1.5120845	-0.5549124	-3.2530604	-1.854449	-0.6912588	-0.3546525	-0.7108135	-0.3044885
l transduction mechanisms	-0.2411659	-0.7333326	-0.9719103	-0.3828237	-0.3406701	-1.0831701	-1.3112854	0.25574567
l transduction mechanisms	-0.2835952	-0.5735993	-0.3117301	-0.2667074	-0.2109974	-0.2052994	-0.0117438	0.60410202
vo-component system	-0.6859186	-1.1017047	-0.3119507	-0.3309601	-0.1526763	-1.1770499	-0.9055264	0.66676602
l transduction mechanisms	-0.543548	-0.3883461	-2.8976471	-1.2635624	-0.3226416	-0.2573249	0.57965037	0.24346423
l transduction mechanisms	0.03233171	-0.5888886	-0.9711113	-1.218477	-0.1537097	-0.9241377	-0.6552984	-0.1004882
vo-component system	0.38009149	-0.5841527	-1.2870613	-0.6365817	0.07475922	0.13967326	0.14496218	0.08434183
l transduction mechanisms	-0.0766945	-0.3924001	-0.9344956	-0.5468094	-0.2616292	-0.0528503	-0.0325906	0.61996659
vo-component system	1.31294918	-0.14093	-0.8800744	0.55189767	1.03655467	0.65581143	2.65956627	1.59828348
l transduction mechanisms	-5.2070345	-6.1326557	-3.9826788	-5.502586	-1.9774001	-3.6868422	-2.2892909	-4.2760403
l transduction mechanisms	0.10745315	0.18270178	0.58949891	-0.2525982	-0.1841637	-0.8489298	1.74108477	0.02946914
vo-component system	-0.0717001	-0.4031264	-0.0321959	-0.5360089	-0.0701694	-0.3795238	0.04482814	0.25058052

l transduction mechanisms	-1.5675049	-0.8790272	2.10075503	0.3358521	-0.8063257	-2.7105909	-0.6025564	0.77652353
l transduction mechanisms	-0.0334042	-0.5063695	-1.4144988	-0.0447925	0.09969269	0.34604509	0.09078687	0.40523669
l transduction mechanisms	-0.1938267	-0.5691523	-2.5822591	-0.6120257	-0.2639908	-1.0939415	-0.28318	0.46799125
l transduction mechanisms	-0.2651573	-0.3481076	-0.5198336	-0.367384	-0.1625436	-0.3894978	0.0487049	0.83411473
l transduction mechanisms	-0.6880391	-0.634244	-1.2477756	-0.6719793	0.01796128	-1.2495801	1.42159134	1.22640078
l transduction mechanisms	-0.611945	-0.9285362	-1.9694253	-0.8144167	-0.3314565	-0.7778636	-0.6121898	0.23394764
l transduction mechanisms	-1.406211	-1.3497339	0.17268502	0.3738808	-0.4109754	-0.9051052	0.19400673	1.39229567
l transduction mechanisms	-0.2506322	0.18895707	-1.1696677	-0.2958829	0.30046072	0.42577391	1.32721976	0.6645624
l transduction mechanisms	-5.2650718	-6.2678131	-4.000306	-5.3690024	-1.9331508	-3.6669324	-2.3459833	-4.26038
EC:6.5.1.2	-0.4217644	-1.1177973	-3.2073171	-0.8760215	-0.3646902	-1.2753838	-0.3265902	-0.1541937
:ion and repair	0.9544286	-0.235879	1.11762871	0.02034994	0.57924966	-0.1892512	1.52796903	0.89440598
EC:3.1.26.4	-1.115564	-1.2762069	1.78407264	-1.613188	-0.9896612	-1.1917052	-0.191408	-0.2027684
:ion and repair	-0.6655462	-0.822129	0.98500902	-0.2227844	-0.0603378	-1.0397773	0.26221291	1.64712707
:ion and repair	0.964148	-0.3401715	0.97990066	-0.1482914	0.52377807	-0.2993199	1.89383349	0.79944291
:ion and repair	1.67552209	0.3288286	1.41565496	0.82907106	2.14416932	1.95132464	3.87298051	2.32784483
EC:2.7.7.7 DNA polymer	0.72932774	-0.7359708	1.19647863	-0.748585	-0.2173127	-1.2377451	-0.0268094	-0.051349
:ion and repair	0.97391987	-0.2047568	1.11569464	0.04169135	0.60904591	-0.1577728	1.54786022	0.91639847
:ion and repair	1.01306993	-0.2656478	0.96309972	-0.1023263	0.59614236	-0.223923	1.9555836	0.85032517
:ion and repair	1.47998582	0.61600679	-0.2570474	0.89394078	0.98597105	0.95681693	2.38450729	1.36939812
:ion and repair	0.40117641	-0.4346203	-1.304528	-0.552473	0.28537026	-0.1156661	0.40194839	0.30154881
:ion and repair	1.40118947	0.81559608	-0.9328307	1.35350525	1.82280614	0.45609591	2.1912056	1.467751
:ion and repair	0.20984843	-0.3012459	1.15923395	-0.5033409	-0.0436151	0.30877444	1.12842921	0.89055341
:ion and repair	2.72971199	1.65021515	1.15211272	2.34311257	1.51585159	2.56768451	3.44943092	2.9123373
:ion and repair	1.39782784	-0.10335	0.20125591	0.50328872	0.76092584	-0.0857329	2.35622552	1.66225926
:ion and repair	-0.3474511	-0.7221759	-0.5532034	-0.2501926	-0.3695744	-1.5205878	-0.2725135	0.19548277
:ion and repair	0.97132743	-0.3343883	0.98948901	-0.144085	0.52643457	-0.2957937	1.8970269	0.79717802
:ion and repair	-0.5104884	-0.1880436	-1.9414438	-0.3868445	-0.1419952	-0.8902491	-1.0516888	-0.3376381
:ion and repair	0.37703962	-0.314788	0.48237373	-0.1587444	0.1866755	0.05161702	1.00478605	1.25862211
:ion and repair	-1.0396571	-0.7258832	1.43130573	-0.3872478	-0.5552857	-0.0276964	-0.1257293	0.45582218

Supplemental Table 2 Tab 1

:ion and repair	-0.2804546	-0.5911876	-2.3707313	-1.0289558	-0.5395629	-1.2827101	-1.3831531	-1.1984076
:ion and repair	1.27843013	0.21689512	-3.5552641	-0.0572318	0.65695127	0.00539102	2.17039169	1.94876564
EC:2.7.7.7 DNA polymer	-0.0608367	-0.2856985	-2.0417132	-0.3094447	-0.0535158	-0.7259363	0.10103165	0.22633549
:ion and repair	0.65072776	0.04564492	0.42742706	0.26798487	0.45700455	0.31138026	1.08190979	1.24302248
:ion and repair	0.46742304	-0.0866656	0.64570077	-0.0180932	0.34701161	0.29070511	1.01814896	1.31739759
:ion and repair	0.58160024	-0.0436571	-0.6291263	-0.0457693	0.64147882	0.98567665	1.27887873	1.435775
:ion and repair	-0.2977385	-0.7711813	-0.639181	-1.0275724	0.04043024	0.71732491	0.0060563	-0.2167919
:ion and repair	0.87724428	-0.1468876	1.27755842	-0.3843557	0.02151889	-0.0445387	0.64419794	0.02854949
EC:3.6.4.12	-0.9644461	-0.9595791	-0.6550673	-0.6267868	-0.8828368	-0.3938798	0.03744861	0.05385476
ismatch repair	-0.0293032	-0.2524127	0.78336729	0.17621965	-0.292945	-0.6338807	0.85616456	0.82860217
ucleotide excision repair	-0.0116416	-0.8224773	-2.8553482	-0.3063731	0.09912621	-0.1756708	0.84008248	1.26924611
:ion and repair	0.2502295	-0.2606951	1.33471787	-0.2318868	0.02617475	0.67760596	1.64705629	1.25879475
:ion and repair	-0.5201582	-0.7504558	-3.7482708	-1.2109271	-0.1456268	-2.2775814	-1.2960689	0.04113041
EC:3.6.4.12	-1.5046903	0.08364397	0.54602842	0.90416067	-1.0163283	-1.0850965	-0.7949994	0.51489918
EC:3.6.4.12	-0.2456565	-0.7116433	-0.7122141	-0.768597	-0.4703625	-0.562378	-0.1570952	-0.0275664
EC:2.7.7.7 DNA polymer	-0.1177217	-0.928642	-1.6642662	-0.4087062	-0.3411828	-0.4607541	0.37349294	0.28963922
EC:3.1.-	-0.3397145	-0.4492485	-0.5420556	-0.5857393	-0.2320742	0.24421029	0.56639332	0.74951679
:ion and repair	0.97546815	-0.2230446	1.17076739	0.04553127	0.61005348	-0.1556661	1.52801208	0.91572824
omologous recombination	1.12084397	-0.0341827	1.42406088	0.16117378	0.41013274	0.01732505	1.92168051	1.45872904
EC:3.6.4.12	0.04734247	-0.6195344	-0.9904064	-0.5583174	-0.3942733	-1.3017772	0.09248066	0.39272708
ucleotide excision repair	-0.3381106	-0.9205174	-0.972512	-0.4054336	-0.2135545	0.16241084	0.51520901	0.09345867
:ion and repair	1.41162672	-0.0700284	0.25779508	0.57278196	0.82069905	-0.0454948	2.43600624	1.7066703
ismatch repair	0.59468968	-1.2809664	0.85212268	-0.9698978	-0.1161045	-1.1185054	1.34253559	1.02370885
:ion and repair	-0.0254542	-0.8654064	0.24254335	-1.2447144	-0.2307055	-1.22226	-0.0190371	-0.1408062
EC:2.1.1.72	0.16670419	-0.3898778	-1.8421259	-0.6287069	0.36142913	-0.0583065	0.90268677	0.76066917
:ion and repair	0.38116582	-0.2581923	1.32526683	-0.158589	0.10054823	0.69982825	1.80476467	1.44651783
EC:4.2.99.18	-0.0330909	-0.2686765	0.0999874	-0.3830501	-0.1499031	0.02000674	0.73905878	0.96495356
:ion and repair	0.97490902	-0.3126304	-2.3712666	-0.3936395	0.32729091	-0.7245819	1.95438887	2.11028259
:ion and repair	-0.3744516	-0.6358357	0.16024179	-0.0939841	-0.1144104	0.35971754	0.25115452	0.91593918

Supplemental Table 2 Tab 1

:ion and repair	0.98566092	-0.3114572	0.93412222	-0.1288724	0.59407844	-0.2339159	1.87240809	0.82477488
ell cycle - Caulobacter>map(	-0.3203343	-0.949781	-0.6420564	-0.3875139	-0.1122548	-0.3398741	1.09401644	1.41827822
ismatch repair	0.18129624	-0.9845504	2.25119989	0.09344015	-0.142269	-0.6425013	0.77569829	0.84788824
:ion and repair	-0.5450552	-1.1382077	-0.8029546	-1.368592	-0.225613	0.57769285	-0.149268	-0.3526996
:ion and repair	0.4689087	-0.0707315	-0.2952577	-0.0275559	0.52469592	0.92527503	1.10562832	1.54403476
:ion and repair	0.40357534	-0.3409945	0.38581009	-0.112162	0.33708586	0.16981097	1.11064561	1.34203579
:ion and repair	0.59746447	-0.0797687	0.2543744	0.37000769	0.51314476	0.29383859	1.02474257	1.19077233
:ion and repair	-0.2043883	-0.8549526	0.07496469	-0.0858431	-0.3207153	-0.5658496	-0.1912037	0.10514909
:ion and repair	0.17841916	0.05780425	2.135679	-0.244982	0.07523623	0.4572602	0.93931924	1.07746875
:ion and repair	0.95582944	-0.3496965	0.97252439	-0.155133	0.51597602	-0.3088449	1.88558627	0.79385267
:ion and repair	0.34576501	-0.3597031	1.23909479	-0.4615958	0.08120563	0.95447871	1.68673921	1.46310131
:ion and repair	0.23575723	-0.2849025	1.39009711	-0.3005709	0.05388698	0.64341296	1.61202556	1.20658375
:ion and repair	0.41975559	-0.5935575	0.21495602	0.43642783	0.1904275	0.0443432	1.84815559	1.22066309
:ion and repair	0.964148	-0.3401715	0.97990066	-0.1482914	0.52204344	-0.2993199	1.89319601	0.79944291
:ion and repair	0.70218305	-0.0634057	-0.1178902	0.85111872	0.41322586	0.83644567	0.77467549	0.61793982
:ion and repair	0.68784648	0.0035313	0.55556707	0.28145787	0.45990252	0.28482597	1.06659721	1.20079096
:ion and repair	0.43671098	-0.2501579	0.6775733	-0.0649211	0.24919214	0.04104378	1.01408505	1.24030233
:ion and repair	0.70405899	-0.1728169	0.13961204	0.89866481	0.38163275	0.80148415	0.97635076	0.74817318
:ion and repair	0.14496193	-0.4490142	-0.9473676	-0.0398236	-0.6217017	-0.0812666	1.31209803	0.74268436
:ion and repair	1.7995467	0.49860458	0.56741303	1.08039132	1.40249125	-0.016814	2.92106598	1.84233293
:ion and repair	0.98069723	-0.2275316	1.18210335	0.0504062	0.61256731	-0.1507722	1.5489998	0.92205393
:ion and repair	0.95582944	-0.3496965	0.97252439	-0.155133	0.51597602	-0.3088449	1.88494935	0.79385267
:ion and repair	-0.0471736	-0.8097406	-0.9817889	-0.3443659	-0.2190735	-1.6113549	-0.2114833	0.20998472
:ion and repair	0.74046844	0.19629972	-0.1697439	0.02136193	0.33453897	0.72235623	1.84811767	1.66586054
:ion and repair	1.21444989	0.51604533	-0.2521554	0.34327195	0.64156527	-0.6020913	0.6782009	-0.562205
:ion and repair	0.964148	-0.3401715	0.97990066	-0.1482914	0.52377807	-0.2993199	1.89383349	0.79944291
:ion and repair	1.41162672	-0.0700284	0.25779508	0.555745	0.82802028	-0.0454948	2.43142538	1.7066703
:ion and repair	0.39191086	-0.4033863	-0.6068246	-0.2384881	0.21913669	-0.15797	0.76416712	0.36436061
EC:2.7.7.-	0.62343665	-0.0355264	1.08843094	0.77189192	0.38632212	0.74176658	1.44963077	1.4856589

Supplemental Table 2 Tab 1

:ion and repair	-1.1581789	-0.901085	1.55020641	-0.4514054	-0.7829544	0.06531064	0.22459472	0.8250778
:ion and repair	0.94456751	-0.4492324	1.05266148	0.17781237	0.25290532	-1.0812232	0.92083787	0.27508246
:ion and repair	0.964148	-0.3401715	0.97990066	-0.1482914	0.52377807	-0.2993199	1.89383349	0.79944291
:ion and repair	-0.0249079	0.25443804	-0.1697341	0.28442927	-0.0952325	-0.0295776	1.36876564	1.19840929
:ion and repair	1.02554154	0.30238079	-1.0701078	0.72177958	0.89305655	0.48481461	2.04076525	1.32752397
:ion and repair	1.41162672	-0.0700284	0.25779508	0.56433844	0.82069905	-0.0454948	2.43142538	1.7066703
:ion and repair	0.53792897	-0.3236304	0.58031744	0.69124386	-0.0104725	-0.1296611	1.37624145	0.78874261
EC:3.2.2.23	-1.1797378	-0.2965088	-4.0034096	-1.3416043	-0.7122827	-1.8352342	-1.8748106	-0.7864242
:ion and repair	1.41162672	-0.0700284	0.25779508	0.57278196	0.83530454	-0.0454948	2.43600624	1.7066703
:ion and repair	0.06242804	-0.9968843	-1.2555681	-0.8588408	-0.3958839	-0.3162329	0.54237487	-0.1249124
EC:2.7.7.7 DNA polymer	-0.1847498	-0.2507027	-1.3164098	-0.1779641	-0.156056	-0.3553219	0.8238743	1.08958862
EC:3.6.4.-	-0.3832134	-1.0060384	-0.3886464	-0.7073634	-0.3779574	-0.8829199	0.59161568	1.00945954
:ion and repair	1.37700862	0.65018915	-2.9781956	0.88640324	0.10700238	-0.370964	1.78261671	1.8002466
:ion and repair	0.22872311	-1.2846351	-0.9633093	-0.6347134	-0.689737	0.47309709	0.79749246	0.02920073
:ion and repair	0.24622359	-0.281771	0.72715925	-0.4967959	-0.2316002	0.77870599	1.76872504	0.76018006
:ion and repair	0.25355557	-0.3335539	1.25228726	-0.2488375	0.01007901	0.63260719	1.6525575	1.25459864
EC:3.1.11.2	0.50867257	-0.9686358	-0.3105278	-0.285961	0.29561166	-1.70967	1.55540781	1.66376514
:ion and repair	0.95582944	-0.3496965	0.97252439	-0.155133	0.51597602	-0.3088449	1.88558627	0.79188662
:ion and repair	0.15608153	-0.5620072	-0.9473017	-0.4192224	-0.3087054	-0.4576453	0.84377376	0.96808762
:ion and repair	1.45298157	-0.0528291	0.30831593	0.61485929	0.88582539	-0.0082624	2.48423848	1.75719115
:ion and repair	0.20525837	-1.3721481	-0.9633093	-0.7248493	-0.7370205	0.45235057	0.73262497	-0.0103366
omologous recombination	-0.3326309	-0.1616864	0.31572077	-0.2063436	-0.3896081	0.91611781	-0.0838822	0.56840491
lycyclic aromatic hydrocarb	-0.1059432	-0.4642707	-1.2786029	-0.7047361	-0.3324532	-0.982158	0.10360609	0.67548271
:ion and repair	0.01857176	-0.556149	0.86775458	-0.8285414	-0.4100114	0.10923104	0.16006145	0.5821006
:ion and repair	0.25772335	-0.3295163	1.25039249	-0.2488375	0.00482818	0.63260719	1.65816728	1.25765528
:ion and repair	1.88184029	0.57641712	0.28981133	1.37886614	1.72906638	0.21416815	2.54473948	1.94643028
:ion and repair	0.95735033	-0.2293674	1.12152266	0.02334201	0.58375675	-0.1836241	1.53525418	0.9008425
:ion and repair	-0.7741723	-0.7880331	0.02851723	0.09760889	-0.3962182	-0.5198495	-0.1201968	1.72935629
:ion and repair	0.25355557	-0.3295163	1.25228726	-0.2488375	0.01007901	0.63260719	1.6525575	1.25459864

Supplemental Table 2 Tab 1

:ion and repair		0.4242721	0.07092565	-0.7826376	-0.1245184	0	0.58227204	1.42413448	1.36666801
EC:2.1.1.37	map00270 M	0.48078293	-0.6150513	-2.7258333	-0.7646139	-0.0250666	-0.6571658	1.02921168	0.77712549
:ion and repair		0.964148	-0.3401715	0.97990066	-0.1482914	0.52377807	-0.2993199	1.89383349	0.79944291
:ion and repair		0.96138941	-0.2279089	1.1255988	0.02732192	0.58652912	-0.1824577	1.53593912	0.90007511
EC:3.2.2.21		2.06274601	1.13610012	2.4156401	0.02106162	1.05673189	1.04462789	3.69106235	2.91304939
:ion and repair		-0.479983	-0.7374587	-0.7735706	-0.6071819	-0.5091031	-0.4235697	-0.135883	0.61739106
ıcleotide excision repair		0.62278372	-0.1263254	-0.5736188	-0.1665297	-0.1265398	-0.2578404	0.47670494	0.00675828
EC:3.6.4.12		-0.5077276	-0.6298864	0.57571989	0.13025639	-0.3679597	-0.7952854	0.47248858	1.09564245
:ion and repair		-0.5022736	-0.7340034	2.00332579	-0.5409713	-0.422611	-0.8603675	-0.5988914	-0.0802577
:ion and repair		0.95756707	-0.2567836	-2.9770059	0.28705572	0.65287377	-0.2605308	1.17513593	1.40387509
:ion and repair		-0.9957314	-0.9189577	-1.337153	-0.4960437	-0.7757394	-0.1066265	-0.5061892	0.44929639
EC:2.7.7.7	DNA polymer	-0.3664913	-0.4105687	0.05098828	-0.38182	-0.0908061	-0.3085199	0.29769588	1.18252403
:ion and repair		-0.2796251	-0.9516915	-1.3502606	-0.93684	-0.4309749	-0.9346846	-0.3830935	-0.4797928
EC:3.6.4.12		0.75636393	-0.5175233	-0.2626494	0.05716527	0.21857582	0.0079548	1.94448331	1.82776091
EC:3.1.26.4		0.36035632	0.12538082	2.01812666	0.46428817	-0.0608118	-0.4072978	1.10698947	1.34035401
:ion and repair		0.8519333	-0.0322107	-0.0121503	0.74716889	0.49565854	0.95117101	0.62955511	0.26268757
:ion and repair		0.1902944	-0.3194047	1.47763481	-0.3260793	0.01216095	0.65986549	1.61107723	1.19346707
:ion and repair		0.76081072	-0.1430349	-0.0127625	0.93595473	0.36514514	0.80345195	0.92224645	0.76022931
:ion and repair		0.17134052	-0.3024305	-0.584722	0.45879746	0.15814652	-0.2369147	1.04905789	0.29282592
:ion and repair		0.71904405	-0.8235533	2.20876382	-0.0911351	0.51595844	2.35895739	2.04320965	1.69009329
:ion and repair		-0.4178995	-0.6884974	-0.5959875	-0.9291902	0.0649214	0.74213447	-0.0437988	-0.2336407
:ion and repair		0.42115138	-0.3497428	-0.7913163	-0.3464169	0.48948851	0.83084628	1.29022724	1.40766421
:ion and repair		0.25355557	-0.3335539	1.25228726	-0.2488375	0.01007901	0.63260719	1.6525575	1.25612777
:ion and repair		0.38993922	-0.0868392	#NUM!	-0.3937563	0.2789333	0.36604664	1.53436943	1.97954877
:ion and repair		0.25564096	-0.3335539	1.24849522	-0.2518798	0.00482818	0.62584258	1.65095174	1.24387856
:ion and repair		0.96138941	-0.2279089	1.1255988	0.02732192	0.58652912	-0.1824577	1.53593912	0.90007511
:ion and repair		0.93312522	-0.1715557	1.00934674	-0.3070398	0.54565923	-0.1601949	2.12764131	0.9339381
EC:2.7.7.7		0.47176631	-0.4265383	-1.5050362	-0.6632414	-0.1254388	-0.5012494	0.72227896	0.23451593
:ion and repair		1.09831576	0.22147759	0.48232056	0.91440077	0.70861226	0.44636111	2.79013753	1.80028255

Supplemental Table 2 Tab 1

:ion and repair	0.91227376	-0.1060496	0.12891385	1.15225259	0.46795041	0.83918466	1.06050964	0.95845948
:ion and repair	0.26086224	-0.4184893	1.24409719	-0.3936829	0.12412067	0.65858981	1.41502757	1.23424934
:ion and repair	1.80237343	0.25398116	-1.9078579	1.5319124	1.54151085	1.65270947	2.78676452	1.72141078
ɔmologous recombination>ı	-0.6636448	-0.4271243	-1.4981518	-0.2416885	-0.2143028	-0.412966	-1.0124667	0.28035835
EC:3.1.22.4	0.20588228	-0.241623	-1.2103284	-0.3412134	0.15339031	-0.0171561	0.65941976	1.09844926
ɔmologous recombination	-0.4053384	-0.9775216	-1.2174277	-0.7613204	-0.144503	-0.794971	0.26678933	1.22872161
:ion and repair	1.41162672	-0.0700284	0.25779508	0.56433844	0.82069905	-0.0454948	2.43600624	1.7066703
:ion and repair	-0.0251619	0.13566374	#NUM!	-0.6571901	-0.3586268	-0.3707796	1.99002176	0.68982167
EC:2.1.1.72	0.58285855	-0.7721622	-0.3155311	-0.3303565	0.20161879	-0.6227418	0.7974891	0.42708174
:ion and repair	0.03382402	-0.864382	-0.8478041	0.21777138	0.3784251	-0.7858253	0.912994	1.14465768
:ion and repair	-0.9652346	-0.8168614	1.02324197	-0.7640686	-0.6055429	0.15109556	-0.338629	0.22530866
:ion and repair	1.9418681	1.36885041	0.83037206	1.28993869	1.86869573	1.27844478	1.68559518	1.87461316
:ion and repair	0.61503911	-0.0804223	-0.0701786	0.81254681	0.30547136	0.82734111	0.48821684	0.5753283
:ion and repair	0.9544286	-0.235879	1.11762871	0.02034994	0.57855904	-0.1892512	1.5276249	0.8936394
:ion and repair	2.22292493	0.91349687	1.33292181	2.05120191	1.32960281	1.58863639	2.99023623	1.97972549
:ion and repair	0.78227302	-0.4347562	0.30828586	0.75313041	0.4970139	0.16756031	2.11936143	1.25192621
ɔmologous recombination	0.02294511	-0.7201648	-1.6673388	-0.9160384	-0.2749003	-0.7320943	-0.5120968	-0.2395557
EC:2.7.7.7 DNA polymer	0.51800828	-0.1519245	0.47775256	0.14032991	0.20633889	0.43444526	0.59190081	0.28840507
:ion and repair	-0.3498631	-0.396987	3.32321148	-0.260362	-0.0396706	0.54133244	1.13401149	-0.0764281
:ion and repair	0.35584506	-0.2120932	-0.5452388	0.5862054	0.25297422	-0.0648511	1.18661446	0.47444401
:ion and repair	0.19998109	-0.2473693	1.55798799	-0.2565673	-0.0357321	0.74187548	1.76903805	1.29007333
:ion and repair	-0.3469467	-0.643032	-1.456034	-0.8675748	-0.1443414	-0.215873	0.1406909	0.18014351
:ion and repair	-0.5439099	-0.7971452	0.33280537	-1.3156366	-0.5511423	-0.7592989	0.74502805	-0.2574265
:ion and repair	0.58632528	0.06540005	-0.5324638	-0.0055618	0.801416	0.6469148	1.65305909	1.37256626
:ion and repair	-0.0615315	-0.3787526	-1.9067024	-0.8743185	0.14406	-0.2116151	2.2866219	0.46506107
:ion and repair	-0.5262321	-0.947259	0.26090915	-1.25425	-0.5128015	-0.6464246	0.80641472	-0.1705081
:ion and repair	0.07458785	-0.2308808	1.25181159	1.02144052	0.70872382	0.82195193	2.38248521	2.64356815
:ion and repair	1.41162672	-0.0700284	0.25779508	0.57278196	0.83530454	-0.0454948	2.4496352	1.7066703
EC:3.1.11.5	0.69906547	-0.1641639	-1.2876264	-0.0812131	0.47152777	0.4051905	2.13786033	0.99745781

Supplemental Table 2 Tab 1

:ion and repair	0.25511545	-0.5403144	0.1104534	0.42351133	-0.1657544	-0.239432	1.05729084	0.44983202
:ion and repair	-0.5944688	-0.9098838	3.50145835	-0.059295	-0.2190998	0.27554439	1.7426704	-0.1960219
:ion and repair	1.41162672	-0.0700284	0.25779508	0.56433844	0.82069905	-0.0454948	2.44509749	1.7066703
:ion and repair	0.675136	-0.0867862	-0.1703011	-0.8087092	0.3783265	-1.3711904	2.94403	-0.4802621
:ion and repair	0.16469489	-0.1170828	-0.4149519	-0.8912337	-0.3585593	-0.5463921	1.24271548	-0.3712893
:ion and repair	1.46692221	0.97234945	-0.5846632	-0.9786087	0.96347412	0.5036971	2.09875725	0.42718329
:ion and repair	-0.390322	-0.7902292	0.77217712	-0.9046538	-0.3583805	-1.1163132	1.62490125	0.84217492
:ion and repair	-0.0106977	1.16832141	-2.2286704	-0.9260408	-0.0548085	-0.9849017	0.24971631	-1.1496742
:ion and repair	0.08370861	1.37106214	-2.4338935	-0.6854929	0.18955226	-0.8686623	0.01771036	-0.8601619
:ion and repair	-0.0389885	0.05417855	-0.8258073	-0.4599115	0.05653641	-0.0051544	0.71177231	0.39714341
:ion and repair	0.97499215	1.40373951	-1.3921482	0.49938113	0.74108893	0.55894986	1.81220611	1.54579449
:ion and repair	0.29463088	0.97044319	-4.1698114	-1.0479383	0.63022168	-0.2657182	1.29509395	-1.1759592
:ion and repair	-0.4994304	0.50005611	-4.7704491	-1.492129	-0.0482373	-0.878582	0.3542369	-1.3582739
:ion and repair	-1.1107796	-0.1797558	-2.2408365	-1.4217062	-0.6867654	-1.0749663	-0.275677	-1.0103316
:ion and repair	-1.0408951	0.62502343	-4.6928656	-1.8018057	-0.400943	-0.6464181	0.54871013	-1.1960846
:ion and repair	1.14483631	1.49842717	#NUM!	-0.9779027	1.22623805	1.21416522	2.6339307	-1.4809802
:ion and repair	0.12188882	1.0756835	1.69551059	0.49944251	-0.226915	1.25948665	2.60915465	0.9983057
:ion and repair	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
:ion and repair	0.98902494	-0.332821	0.96951647	-0.1380037	0.54568201	-0.2853254	1.89703209	0.82695434
:ion and repair	0.05898896	0.12748263	3.68030756	-0.1146676	0.14059221	0.141888	0.45480788	-0.6974656
:ion and repair	1.00332169	-0.3175832	0.98849048	-0.1295963	0.55792764	-0.2752728	1.91222816	0.84401948
:ion and repair	1.00332169	-0.3175832	0.98849048	-0.1295963	0.55792764	-0.2752728	1.91222816	0.84401948
:ion and repair	-0.0601401	0.00298262	-2.1152071	-0.9511871	0.12432187	-0.0637019	1.50402501	0.41223034
:ion and repair	-0.0477562	-0.764753	0.32215806	-0.6211169	0.010769	-0.7858118	0.81030884	0.04377372
:ion and repair	-0.670909	-0.4442624	-0.2494088	-1.1492825	-0.2441762	-0.1808741	0.09845817	-0.8291387
:ion and repair	0.0558857	0.02037636	4.40605458	0.07584079	0.5261248	0.70142596	2.2497971	-0.322203
:ion and repair	-0.0601401	0.00298262	-2.1152071	-0.9511871	0.12432187	-0.0637019	1.50402501	0.41223034
:ion and repair	1.41162672	-0.0700284	0.25779508	0.56433844	0.82069905	-0.0454948	2.4496352	1.7066703
:ion and repair	-0.1505281	-0.5460416	3.28775477	-0.228628	-0.1174409	0.26667931	1.2403922	-0.0484764

Supplemental Table 2 Tab 1

EC:3.6.1.13	-1.6341579	-1.4500861	1.05950344	-0.7752039	-0.8507186	-0.3707624	-0.8539843	-0.438516
:ion and repair> R - General	0.24494988	-0.1153568	0.87206242	-0.2587911	0.19783931	0.72494742	1.04216291	1.22709277
:ion and repair> U - Intracel	0.0230383	-0.8195506	-0.9334244	-1.2614076	-0.2449026	-0.8327715	0.3218173	0.34833414
EC:4.2.1.47	0.74900935	-0.2862048	-0.8069035	0.0108344	0.36374402	-0.6125926	0.36510039	0.39274733
EC:1.1.1.133	-0.2758085	-0.5897931	1.30343205	0.47309155	-0.0391904	-0.7789526	0.53333023	0.69197284
nvelope biogenesis	0.32865215	-0.1976696	-0.4816561	-0.3411545	0.17209937	0.38215782	0.8755113	1.69018379
nvelope biogenesis	-0.0744026	-0.642089	-0.7166298	-0.3903914	-0.1375254	-0.5772107	-0.2813766	0.31182036
EC:2.6.1.16	-0.3200635	-0.3035087	-1.7009149	-0.2033989	-0.0263788	0.73916837	-0.0681322	0.60008043
nvelope biogenesis	-0.9741567	-0.6795329	-0.15347	-0.2573149	-0.2892248	0.39408901	-0.6294493	-0.18357
nvelope biogenesis	0.22008197	-0.0584439	0.97267808	1.04259019	0.12951182	-0.1316804	0.67822385	1.24753606
EC:3.5.1.24 Conjugated b	0.31574858	0.5244743	1.69098257	0.90798246	0.28682022	-0.1967713	0.27674465	0.13649909
EC:1.1.1.22 Ascorbate bic	0.86314705	-0.1326162	-1.2849005	-0.2629155	0.48647238	-1.4290688	0.41872894	0.81544475
nvelope biogenesis	0.3185199	-0.0978809	0.28973549	0.41046814	0.05026009	-1.0919696	0.14131201	0.45147624
nvelope biogenesis	-0.3939816	0.06960173	-1.3597572	-0.5972655	-0.3147268	1.1409271	-0.5685793	0.18004947
EC:5.1.3.13	-0.087618	-0.064773	-2.0310183	-1.1029885	-0.0859267	-0.0621333	-0.3814493	0.15073837
nvelope biogenesis	0.22227013	0.1362568	-2.1885977	-0.5408537	0.25817777	-0.1171343	-0.0516907	0.22264228
nvelope biogenesis	1.46544572	0.95788361	-2.2327351	-0.0193031	1.03951229	0.741892	2.22045881	1.17927544
nvelope biogenesis	0.93225261	0.66940856	-2.6842608	-0.6957326	0.77537404	0.61109388	1.38130926	0.64121502
nvelope biogenesis	0.8883387	0.50912701	-2.5811789	-0.3792898	0.70517284	0.34436231	1.41868191	0.87854712
nvelope biogenesis	1.04243012	0.61754389	-2.8669451	-0.2896592	0.79888921	0.32514396	1.48347083	0.53024883
EC:5.1.3.2 Nucleotide su	0.60774157	0.33875512	-2.4751157	-0.546023	0.38844557	0.00196098	0.90090516	0.37093871
nvelope biogenesis	0.2545492	0.46113596	-3.2226819	-0.6325939	0.36450835	0.29127799	0.66765623	0.26925223
EC:4.2.1.47	0.03585769	0.16445935	-3.1296142	-0.9435326	0.09043	-0.2274268	0.53995578	0.08639753
nvelope biogenesis	0.76483461	0.57229258	-2.4176786	-0.7475933	0.65661021	0.38130994	1.48904829	0.9865055
nvelope biogenesis	-0.1636532	0.72001293	-1.873802	-0.4770246	0.16981378	0.18372853	0.75819008	0.90909092
nvelope biogenesis	-0.7328244	0.47854997	-1.3249171	-0.5219144	-0.1402731	0.16430719	0.58734926	0.98229984
EC:5.1.3.2 Nucleotide su	-0.5024685	0.10599105	0.36081621	-0.4640853	-0.0503573	0.42894325	0.23687406	0.93523342
nvelope biogenesis	-0.3141805	-0.0641594	-0.9867557	-1.1266276	-0.3315178	-0.1640108	-0.1279889	0.04176436
nvelope biogenesis	0.89585788	0.36164453	-2.2286514	-0.5001437	0.47157384	0.5262533	0.40155444	0.72180799

Supplemental Table 2 Tab 1

nvelope biogenesis	-0.4615533	-0.4975971	-0.3158727	-0.3955652	-0.1679938	-0.7876685	-0.2409717	0.69768468
EC:3.5.1.- map00540 Li	-0.0613194	-0.6123062	-2.1156282	-0.2773773	-0.0024803	-1.5798023	-0.0717556	0.70349059
EC:2.4.1.83	0.08415924	-0.6675842	0.38796703	-0.0815413	-0.3002445	-0.7732596	0.56423231	1.1252617
EC:2.3.1.183	-0.265603	-0.6613386	0.71782837	-0.1950229	-0.1127054	-0.585165	0.27871855	0.8087691
nvelope biogenesis	0.00252974	-0.6304227	-1.2149497	-0.853344	-0.1116375	-1.2790461	0.05546706	0.48921691
nvelope biogenesis	-0.3612047	-0.6384486	-1.2650676	-1.1102913	-0.2637847	-0.8545141	-0.1929396	0.26885948
nvelope biogenesis	0.56933891	-0.2433034	-3.9104318	-1.377873	0.01447576	-1.660855	-0.6122576	-0.7243428
EC:2.4.1.129	-0.440103	-0.741786	-1.2467822	-0.6281209	-0.4961816	-0.7653196	-0.243004	0.59734367
nvelope biogenesis	0.23371623	0.17061584	-0.6124469	0.48453812	0.33237375	-0.1602482	0.92964875	1.05271217
nvelope biogenesis	-0.2745278	-0.7816144	-3.3767737	-0.566498	-0.2736553	-0.8971579	-0.7734643	0.31791915
nvelope biogenesis	-0.945356	-0.8115424	-2.1771395	-0.0142834	-0.6995277	-1.0128672	-0.8132337	0.5481508
nvelope biogenesis	-0.2572969	-0.6049363	-0.4250231	-0.4002529	-0.3327777	-0.0937272	0.75795491	0.9901872
nvelope biogenesis	0.33789454	-0.7043582	-0.3413697	-0.3798931	0.0953331	-1.2782263	0.56116219	0.58682888
nvelope biogenesis	-0.0990916	-0.1768899	-1.4592924	-0.1825656	0.13938352	-0.4891993	0.82714316	1.21051887
nvelope biogenesis	0.46382328	-0.4116288	0.38461962	-0.9575971	-0.1343694	1.53153797	0.03929229	0.03687367
nvelope biogenesis	-0.5292056	-1.1757998	2.87350328	-0.9065837	-0.0194068	0.02555663	0.46626889	0.65260122
nvelope biogenesis	-1.5395632	-1.3380349	2.68831684	-1.5999618	-0.6330771	-1.2956646	-0.002611	-0.568982
nvelope biogenesis	-0.2926856	-0.7621799	-2.0040082	-1.1833632	-0.3764036	-0.6231597	-0.6034303	-0.4722113
nvelope biogenesis	0.21572756	-0.3908941	-0.5772999	-0.4126483	0.01072037	-1.471958	0.39100478	1.18905385
nvelope biogenesis	0.43078357	-0.4995159	-2.0196273	-0.3610997	0.07131209	-1.6219714	0.6473807	1.08859617
nvelope biogenesis	1.08567981	-0.2494839	1.34875615	0.26879568	-0.0196619	-0.191427	0.35636515	0.22039108
ell cycle - Caulobacter	-0.4702012	-0.6010406	-0.1976392	-0.6747175	-0.3828038	-0.7044374	-0.5695084	0.07504705
nvelope biogenesis	-0.7346792	-1.0342677	1.46894359	-0.5728339	-0.2596006	-0.1737604	-0.7877564	-0.3028585
nvelope biogenesis	-0.4461231	-0.7455874	0.45089652	0.30675159	-0.2710195	-0.4832401	0.27184454	0.73741862
nvelope biogenesis	-0.3636115	-1.0928602	-1.737249	-0.9287426	-0.4544156	-1.6771397	-1.054633	-0.2847874
nvelope biogenesis	0.15116331	-0.1114876	-2.1085521	-0.7217894	0.06434102	-1.8125525	-0.6653906	-0.1477012
nvelope biogenesis	-0.3649011	-0.9346405	2.58980227	-0.0658153	-0.2832689	-1.0958498	0.54209132	1.05070922
nvelope biogenesis	-0.3873942	-0.7403354	-1.4916514	-0.7212174	-0.4895063	-0.7467841	-0.2863947	-0.1299761
nvelope biogenesis	0.00132829	-0.763254	0.48458625	-0.4011189	-0.2351678	-0.3692916	-0.0424192	0.33449384

Supplemental Table 2 Tab 1

EC:6.3.2.4	-0.0752003	-0.9257257	-3.6426757	-1.4056944	-0.5078407	-1.8108882	-0.3620601	-0.08451
EC:6.3.2.9	0.09132145	-0.7496247	-1.634285	-1.7371659	-0.170711	-1.3228991	0.18004329	0.08553919
nvelope biogenesis	-0.2797247	-0.6568669	-1.2148623	-0.6527639	-0.166038	-1.571896	-0.0461239	0.7969537
nvelope biogenesis	0.6772531	-0.4440832	-2.3762549	-0.7256148	-0.052668	-1.2405535	0.29760276	0.52622063
nvelope biogenesis	-0.4582081	-0.2695301	-0.0828277	-0.6646033	-0.2797108	0.08240623	-0.2294005	0.48855388
nvelope biogenesis	-0.18215	-0.8312036	-2.5115704	-0.8743699	-0.4870622	-1.9850123	-1.2445227	-0.5386982
EC:5.1.1.3	0.04562687	-0.7773936	-3.4731069	-1.6914684	-0.1145798	-1.4456377	-0.6239587	0.60852425
nvelope biogenesis	-0.5913095	-0.5821631	0.33453577	-0.7401437	-0.5298724	-1.4634886	-0.6938857	-0.4369669
EC:5.1.3.2 Nucleotide su	-0.4748588	-0.572082	-0.9152951	-0.0827979	-0.3723152	-1.1135002	0.11823731	0.76376921
nvelope biogenesis	-0.3573125	-0.6571757	-2.2720117	-0.7204754	-0.3303622	-0.8720281	-0.2133424	0.37836293
nvelope biogenesis	-0.4299577	-0.6339573	0.07539978	0.08891527	-0.4653982	-0.1836963	-0.5721099	0.10705489
nvelope biogenesis	0.37082512	-0.3346378	-0.5108205	0.05883081	0.16620586	-2.2966854	0.91212775	1.19111166
nvelope biogenesis	2.26089732	1.32910732	1.35449012	1.7766531	1.81186553	1.43695228	3.81085576	2.52066693
nvelope biogenesis	1.78260343	0.32889428	-0.6839496	0.15917775	0.9444775	0.47772497	2.9352863	1.97995981
nvelope biogenesis	1.2119357	-0.6718557	-2.9781349	-0.8797969	0.67550559	-1.1784972	2.73742135	0.9223562
nvelope biogenesis	0.41711009	0.57298436	-1.9929591	0.78314845	0.67252003	0.39109634	1.69537302	2.56266756
nvelope biogenesis	-0.3356922	-0.8610394	-0.8706188	-0.784602	-0.1136206	-0.8856938	-0.0974466	-0.3259169
nvelope biogenesis	0.08449469	-0.3958868	-1.4173386	-0.3685707	0.13054074	-0.3706273	1.76458248	1.63851913
EC:3.4.16.4	-0.1218646	-0.5811667	-2.2015449	-0.5502471	-0.262937	-1.3711213	-0.6504353	-0.2197708
EC:2.4.1.80 map00600 La	0.34418455	-1.0722223	-0.5558809	-0.7011008	-0.4959499	-0.8915856	0.88236788	1.07568438
nvelope biogenesis	-0.4333872	-0.5017193	-1.1497699	-0.7306991	-0.2491397	0.29645671	0.47489564	0.89716773
nvelope biogenesis	-0.3264129	-0.6023347	-2.1002851	-1.0146205	-0.6074517	-0.5288224	0.7459427	0.66631005
EC:6.3.2.10	0.57131282	-0.5614551	-0.2497387	-0.0769572	-0.0764965	-0.6718418	0.32664943	-0.0630659
nvelope biogenesis	1.32133044	-0.3426367	0.51716842	-0.0600733	0.47384488	-0.313261	1.17951984	1.57627781
EC:2.4.1.157	-0.2592748	-0.3112679	0.10410185	-0.6314024	-0.3838364	0.06609784	-0.275835	-0.2688369
EC:2.7.7.22 Ascorbate bic	-0.122766	-0.8656863	-1.3581782	-0.7333212	-0.0359185	-1.3480638	-0.8366906	0.02786937
EC:3.4.16.4	-0.5748359	-0.8190564	0.92260421	-0.2220696	-0.3738799	-0.1444409	-0.3044771	1.07339677
nvelope biogenesis	0.17453601	-0.8164781	-1.2234937	-0.8178827	0.00429566	-0.9527878	-0.3543204	0.33589259
nvelope biogenesis	-0.2964876	-0.4017757	0.50549354	-0.0065492	-0.3511394	0.19903285	-0.3415995	0.10987032

Supplemental Table 2 Tab 1

nvelope biogenesis	0.08802136	-0.3358837	-1.2167231	-0.8147214	-0.3005048	-1.2690452	-0.18826	-0.6913379
nvelope biogenesis	0.73093939	-0.7785426	-1.5238853	-0.268419	0.04175322	-1.6317905	0.62020656	0.76138447
EC:2.4.1.182 map00540 Li	0.29783143	-0.6191528	0.25621262	0.43820044	0.15738149	-0.6039859	1.14104414	1.68198427
nvelope biogenesis	1.04961001	-0.3070623	-0.3623859	-0.2837624	0.20222822	-0.7002591	0.63109577	-0.2092934
nvelope biogenesis	0.26611708	-0.795486	-0.5388195	-0.9970434	-0.2156411	-1.360674	-0.046859	-0.1088111
nvelope biogenesis	-0.3529453	-0.697728	-1.7074758	-0.4766964	-0.1499889	-0.085853	-0.462235	0.29364694
nvelope biogenesis	-0.6295182	-0.5824404	-1.7023643	-1.1024235	-0.4279005	-0.6770305	-0.6802115	-0.298105
nvelope biogenesis	0.48512157	-0.5234821	-2.7255767	-0.6214044	-0.0506717	-1.9745175	0.13405593	0.49734773
nvelope biogenesis	0.93113103	-0.2103977	-2.5232151	-1.1098661	-0.0379636	-1.7068588	0.9066842	0.50699557
EC:5.1.3.13	0.5021891	-0.8205054	-0.1141928	-0.2502044	-0.4162287	-2.4581661	-0.0098459	0.55512849
EC:2.4.1.83	-0.2851035	-0.3496861	-0.2468837	-0.4796971	-0.096571	-0.5787582	0.09633809	0.40553454
nvelope biogenesis	-0.6410955	0.0237021	-3.9431846	0.70352003	-0.6332325	-1.8223134	-0.7553683	0.1198353
nvelope biogenesis	-0.5306079	-1.0215535	-1.1943086	-0.6097509	-0.4335252	-1.1317678	-0.4652838	0.27722374
nvelope biogenesis	0.6645344	-0.2774959	-1.2019997	-0.1158431	-0.0272324	-1.4813039	0.07683609	0.81114174
EC:2.3.1.- map00540 Li	-0.1404812	-0.4094234	-0.7161526	-0.229105	-0.3436953	-1.0268649	-0.2419986	0.26012183
nvelope biogenesis	1.02933471	-0.2223541	-2.7006695	-0.5294175	0.21396636	-0.3164823	1.09694507	-0.2733631
nvelope biogenesis	-0.1423112	-0.2771299	-2.1631966	-1.0941155	-0.3870568	0.91636397	-1.0973446	-0.4668214
nvelope biogenesis	-0.5278951	-0.8397739	0.0007415	-1.2822609	-0.5189231	0.8606666	-0.7800084	-1.0635883
EC:2.4.1.182 map00540 Li	-0.1911742	-0.4257596	-1.6638526	-0.749421	-0.3169439	-0.7853085	-0.4527774	0.10514816
EC:2.5.1.7	-0.4443322	-1.0212609	-0.8155222	-0.585287	-0.4577201	-2.0752407	-0.5430578	0.17652787
nvelope biogenesis	-0.4969529	-0.7598046	0.18046494	-0.4651285	-0.6643448	0.33741435	-0.6048329	0.01495641
EC:2.7.7.24	-0.2992628	-0.2688035	-2.5483364	0.11206887	0.02141929	-0.6789028	0.46959933	0.68080251
nvelope biogenesis	0.2204127	-0.6486671	-2.1238286	-0.8667734	0.09102042	-1.4504985	0.80405387	0.38613635
EC:2.7.1.107	-1.0231736	-0.3656937	-1.1139974	-0.2715341	-0.4672512	-0.6667359	-0.440129	0.78416107
nvelope biogenesis	0.95583609	-0.0078615	0.89343024	0.42304248	0.19059989	-0.4434317	0.8232901	0.1934968
nvelope biogenesis	-0.1752688	-0.3779798	1.61282186	0.43199896	-0.2529974	-0.0274606	0.00220505	0.52957275
EC:3.4.16.4	-0.9130223	-1.2790628	-2.5472656	-0.0987796	-0.2199235	-1.1834701	0.35408344	1.24295841
nvelope biogenesis	0.13468247	-0.4518763	-3.1514777	-0.5889965	-0.2138259	-1.0115475	0.71976905	0.95110248
EC:2.3.1.129 map00540 Li	0.4543238	-0.4161917	-3.2917001	-0.6724038	0.23223384	-1.7057507	0.71239734	1.15622023

Supplemental Table 2 Tab 1

nvelope biogenesis	0.07073951	-0.1905003	-1.629146	0.80983731	-0.2770355	-1.9694541	1.03054968	1.4778993
EC:5.1.1.1	-1.000032	-1.5217755	-1.5532274	-1.4328945	-0.6025262	-0.6196876	-1.1783125	-0.5821939
EC:4.2.1.46	0.19106149	-0.7773893	-1.389662	-0.800625	0.10668129	-0.6602896	0.11899604	0.79169569
nvelope biogenesis	-0.2059047	-1.1662113	0.32691717	-1.0164842	-0.731761	-1.5913485	0.22314347	0.59686376
nvelope biogenesis	0.85744838	-0.0279028	-0.8481595	0.26911746	0.18582189	-0.4961138	2.28471431	2.04372896
nvelope biogenesis	0.78215688	-0.2281469	-1.113106	0.03572115	0.6605949	0.31907748	2.08427649	1.3108361
EC:5.1.3.14 map00520 Nu	-0.2043319	-0.60774	-0.8646119	-0.1787865	0.10537238	-1.1483672	0.10077053	0.81146188
nvelope biogenesis	0.35279911	-0.9229594	-2.6416945	-1.0561848	-0.2174507	-0.3025024	-0.3460191	-0.2195936
nvelope biogenesis	0.61645461	-0.6715261	0.20877524	-0.2130961	-0.0174717	0.45574313	1.66370958	1.16175472
EC:3.4.16.4	0.17659381	0.52105918	-1.8393846	-0.2750721	0.29366741	-0.0515944	0.38449974	-0.3236093
EC:2.7.8.13	0.6592029	-0.1965428	-1.6386206	0.50935299	0.22967955	-1.3950023	0.09531154	0.82615715
nvelope biogenesis	0.07227483	-0.1585476	-0.096447	2.36594319	0.08777776	-0.0706246	0.03671651	0.56603957
nvelope biogenesis	-0.1812087	-0.5478018	-1.627141	-0.2087373	-0.1981813	0.0232949	0.24029307	0.05995824
EC:3.4.16.4	-0.6816118	-0.739937	-0.4294159	-0.2062796	-0.4984999	-1.1095778	-0.3412105	0.85869839
EC:6.3.2.13	-0.5721277	-1.227556	-1.961729	-1.7344877	-0.5939701	-2.0899558	-1.3886761	-0.7873069
nvelope biogenesis	-0.0070237	-0.7738439	-1.0859871	-0.6244202	-0.3167622	-1.5373002	-0.2122737	0.37094881
nvelope biogenesis	0.07054061	-0.0789538	-1.5692924	-0.9329212	-0.0272937	-0.8875934	0.26475157	0.57156562
EC:2.3.1.157 map00520 Nu	0.02417133	-0.903047	-1.4170754	-0.6428407	-0.3134381	-1.7661836	-0.4062714	0.183976
EC:6.3.2.8	-0.4437458	-0.8992691	-1.7109014	-0.9721739	-0.617971	-1.2845044	-1.1952987	-0.7683728
EC:1.1.1.158	-0.396223	-1.2111277	-2.1424585	-1.3460196	-0.7906715	-1.932329	-1.0456927	-0.9173001
nvelope biogenesis	-0.4673146	-0.5519955	-0.7870762	-0.3149956	-0.3012241	-0.6123885	-0.2336685	0.54192464
nvelope biogenesis	-0.9454831	-1.1538872	-2.0418384	-0.7839209	-0.4025513	-0.9716458	-0.7571316	0.2453141
nvelope biogenesis	-0.4986556	-0.9563086	4.44501636	2.08197127	0.11458393	1.31804864	1.31852647	3.20732725
EC:2.4.1.227	-0.4533828	-0.6324424	-2.1696992	-0.3226594	-0.5417164	-1.6471178	-0.853219	-0.6259566
nvelope biogenesis	-0.2815661	-1.1302644	-0.531524	-1.0313545	-0.4727316	-1.3970578	-0.3805343	0.08529235
gionellosis	-0.8013898	-0.6773191	0.2653862	-0.697398	-0.5892479	0.8588042	-0.6521746	-0.3024234
nvelope biogenesis	-0.5039412	-0.9062842	-2.4364936	-0.3406743	-0.3090133	-1.1102995	-0.796157	0.76445204
nvelope biogenesis	-0.653906	-0.835601	-1.3204072	-0.505217	-0.4550434	-0.6031189	0.07828702	0.40866266
nvelope biogenesis	-0.2058313	-0.8693761	-1.1697064	-0.6734759	-0.0043337	-0.9379206	0.48068415	0.71768736

Supplemental Table 2 Tab 1

nvelope biogenesis	-0.1973216	-0.7710859	-0.8868951	-0.3232905	-0.1361813	0.13736203	1.19172073	0.80312447
nvelope biogenesis	-0.6581431	-0.0368896	-1.5109006	0.35847849	-0.4099684	0.18865592	0.69640666	0.0536239
nvelope biogenesis	-0.0915933	-0.0946145	-1.193603	0.38059442	0.32054903	0.38030432	0.99602928	1.19305807
nvelope biogenesis	0.07447282	-0.4346349	1.34487357	0.28010792	0.08206454	1.06984399	1.80489927	0.9608294
nvelope biogenesis	-0.7955731	-0.1720563	0.15311825	-0.3302869	-0.6242339	1.16253226	-0.3076902	0.61003729
nvelope biogenesis	-5.1460037	-5.2908372	-5.3034973	-5.5103097	-2.4519649	-4.7471039	-2.0083819	-4.1170507
EC:4.2.1.113 Menaquinone	0.250004	-0.2930528	-0.4213077	-0.6683958	-0.1778349	-0.7417198	1.42308527	1.14314112
EC:2.4.1.14	-0.3605336	-0.2017338	-0.0856297	0.12232446	-0.2253333	0.39764675	0.71696533	0.72182159
EC:2.4.1.83	-0.2097034	-0.9271902	-0.2969488	0.08100027	-0.5236979	-0.9651645	0.33069388	0.4579707
nvelope biogenesis> T - Sigr	-0.572911	-0.9129937	-2.138114	-0.8784097	-0.6592816	-1.2305123	-1.0151985	-0.1782758
nvelope biogenesis> T - Sigr	0.37702182	-0.6976527	-2.1696973	-1.1134291	-0.2271828	-0.0906974	1.40678706	1.4744048
nvelope biogenesis> T - Sigr	-0.2333064	-0.4293963	-1.3513984	-0.2698539	0.16124839	-0.801432	0.40806117	0.58463725
EC:3.4.23.36	-0.723307	-1.1204644	0.67995623	-0.5901678	-0.6997434	-0.6378143	0.18871443	0.80969024
nvelope biogenesis> U - Intı	-0.2978817	-0.8651519	-2.1811873	-0.3532395	-0.4445227	-1.3564691	-0.8720389	0.08745499
	0.15816573	0.52476208	-0.2789547	0.25654753	0.41994654	0.44798852	0.5189049	0.90675852
	-0.5086756	-0.6189846	-1.0253109	-0.5034579	-0.3569802	-0.1199293	-0.3022225	0.35973558
·anslational modification, pr	-0.9831388	-1.0005061	-0.269249	-0.9731192	-0.4567078	-0.8402583	-1.1495972	-0.1893038
nic ion transport and metal	-0.0401648	-0.3258321	-1.9472603	0.17785844	0.37848497	0.20077476	0.32404743	0.8096799
on unknown	0.40789345	-0.1748009	1.49830112	0.23684387	0.24418303	0.28713648	0.58042826	0.98832818
vo-component system	-0.3822699	-0.8117998	-1.0697275	-1.0005266	-0.4515935	-0.91782	-0.4338311	0.22882118
vo-component system	-0.7281626	-1.0771266	-1.395098	-0.829502	-0.6501027	-1.0285428	-0.72744	-0.0073042
vo-component system	-0.3097288	-0.0369199	-1.6806781	0.8288997	0.09043224	-0.4237295	-0.0640421	0.70588262
vo-component system	-0.0422399	-0.3724744	-1.9439454	0.317287	0.25509591	-0.5695507	0.09770684	1.22848644
vo-component system	-0.6769085	-0.8607206	-0.3748955	-0.5007522	-0.5396851	-0.2917023	-0.6804108	-0.1329243
vo-component system	-0.8000228	-1.0786928	-0.493273	-0.7122655	-0.4269176	-0.5586401	-0.656463	0.07208024
vo-component system>map	-0.0087493	-0.2362622	-0.6067947	-0.3828284	-0.5574117	-0.4378906	0.27217669	0.33686485
vo-component system	-0.1879321	-0.2517287	-0.4064759	-0.6335227	-0.5119328	-0.6510636	-0.3813755	-0.5153458
vo-component system	-0.3270972	-0.0701201	-0.4267987	-0.1063154	-0.4190508	-0.1982189	-0.3306426	-0.3293508
vo-component system	-0.4292867	-0.2722115	0.57919074	-0.1261477	-0.2858697	0.21928719	-0.3313323	0.09524721

Supplemental Table 2 Tab 1

transduction mechanisms>	0.80058923	-0.0695125	0.73717045	-0.0717985	0.4876385	-0.7406409	0.54036029	0.67284457
transduction mechanisms>	0.5113165	-0.4358706	-1.8619513	-0.4676327	-0.0058819	-1.3169526	-0.0735187	0.12845398
ellular trafficking, secretion	-0.1170682	0.13098297	-3.2907688	0.66586017	-0.2189817	-0.5880978	-0.2916805	0.44355471
ellular trafficking, secretion	0.5277785	0.47696604	-5.3129208	0.58343687	-0.0275185	-0.2160299	0.22222499	0.4996042
vo-component system	0.15313213	-0.2558094	-0.9349375	0.3016394	0.63840024	0.5850399	0.82912262	1.06734702
vo-component system	-0.6392111	-0.4145023	-2.673591	-0.0536271	-0.1671446	0.52853327	-0.3607448	0.638587
ellular trafficking, secretion	-0.8203165	-1.1352147	-2.2539617	-1.5674589	-0.825621	-0.3057454	-1.1664299	-0.6165632
ellular trafficking, secretion	-0.096914	-0.7381251	-2.7536096	-0.8167537	-0.0614824	-0.8967878	-0.8634037	-0.3203155
ellular trafficking, secretion	-0.1607161	-0.7549064	-2.9793703	-1.1997706	-0.1659069	-1.0778985	-0.9173341	-0.4622023
ellular trafficking, secretion	-0.8436469	-0.5975917	-2.4567226	-0.73875	-0.5218443	-0.8010928	-1.424407	-0.8315778
ellular trafficking, secretion	-0.36876	-0.3252058	-1.5273086	-0.4702715	-0.1317432	-0.1847313	-0.8183101	-0.2376347
ellular trafficking, secretion	-0.0085481	0.01655968	-1.192017	-0.1973625	0.11972229	0.36620658	-0.5176015	-0.3160495
ellular trafficking, secretion	-0.144431	-0.1015889	-1.601817	-0.3796192	0.00416645	0.20568932	-0.7170777	-0.4094242
ellular trafficking, secretion	0.47816318	-0.0744785	-1.0299815	-0.2539765	0.25871139	1.06400474	0.46724558	0.48616774
ellular trafficking, secretion	0.76179401	1.42938516	-0.4651926	0.32893412	0.63256944	1.34465599	-0.5553036	-0.3118969
ertussis	-0.128698	-0.4218624	-0.9665366	-0.1219933	-0.3304404	-0.4368892	0.32412035	0.47080335
ellular trafficking, secretion	-0.6157023	-0.6677489	-0.6223554	-0.225207	-0.3610819	-0.2836606	-1.002118	-0.214947
ellular trafficking, secretion	-0.5324894	-0.8163837	-0.6402785	-0.2944837	-0.6122243	0.05241703	-0.8280643	-0.5200587
vo-component system	0.5739615	0.37021828	2.0826814	0.08363588	0.34414416	2.54925487	0.71002218	1.29069811
ellular trafficking, secretion	-0.0179289	-0.6127421	-1.592387	-0.2043921	0.09746948	-0.0657351	-0.1701692	1.01660493
fication, protein turnover, c	1.88133619	0.06477685	-2.7555637	0.89557883	1.22605776	0.36587144	3.01930673	2.42648485
fication, protein turnover, c	-0.981003	-0.875483	0.24532999	0.26750285	-0.4429269	-0.0215169	-0.0352659	0.12367665
fication, protein turnover, c	-0.0099884	-0.3472762	0.99210865	0.88558016	0.29744738	-0.6338017	0.43627879	0.83725534
fication, protein turnover, c	-0.828651	-0.748787	-0.1924306	0.12286912	-0.6704449	-0.2552925	0.21894755	0.61470749
fication, protein turnover, c	-0.2220118	0.16546876	1.22546855	0.29124241	-0.0689746	0.32659515	0.05262638	0.51641916
fication, protein turnover, c	-0.178456	0.04848805	-1.1865565	0.3012047	0.21268097	-0.4885079	-0.8617385	0.25861648
fication, protein turnover, c	0.22069792	-0.9429264	1.71423279	-0.6426641	-0.1479159	-0.2961748	1.17568116	0.6381536
fication, protein turnover, c	-0.3901501	-0.5369534	-1.3855276	-0.0458412	-0.1991602	-0.0430154	-0.0971538	0.37942772
fication, protein turnover, c	-0.1991107	-0.4031286	-2.2140449	-0.3577124	-0.3658103	-0.7713194	0.48489096	0.49814123

Supplemental Table 2 Tab 1

fication, protein turnover, c	0.50088687	-0.1155785	0.63764271	-0.1023191	0.13915525	-0.7691046	-0.0463902	0.18314248
fication, protein turnover, c	-0.4568961	-0.5794684	-1.7397367	-0.3970445	-0.0338918	-0.2008489	-0.1326676	0.23899292
fication, protein turnover, c	-0.2371822	-0.403699	-1.1696921	0.27453659	-0.2165187	-1.154253	-0.4748251	0.78444504
fication, protein turnover, c	0.46017133	-0.0958704	0.12554294	0.28597927	0.49581833	-0.4519316	0.31755576	0.91930306
fication, protein turnover, c	-0.2887033	-0.5584874	0.12477048	-0.4736488	-0.1133749	-0.6036782	-0.5948221	-0.2705254
fication, protein turnover, c	-0.0806507	-0.8635596	-0.0416989	-0.4305123	-0.1690483	-0.4976456	0.38221931	0.57610105
fication, protein turnover, c	-1.0043212	-0.4403261	-0.5503204	0.08772791	-0.6007576	-0.3847704	-0.1015826	0.53058601
otein processing in endopla	1.23745376	1.44677524	7.42380099	2.24644716	1.6159781	2.23098155	-0.4333641	2.37555111
fication, protein turnover, c	-0.5967577	-0.5237096	1.00392566	0.23924825	-0.338419	-0.1305589	-0.4594645	0.38320097
fication, protein turnover, c	-0.0833014	-0.6801394	0.77141595	-0.4257032	0.06802034	0.51948918	1.04611521	-0.3177264
fication, protein turnover, c	0.1780427	-0.3618178	0.56087308	-0.566969	-0.1217891	-1.0690941	0.29722508	0.04229639
fication, protein turnover, c	-0.6626765	-0.2049978	-1.5200442	0.25527173	-0.3398596	-2.2563067	-0.3686608	0.49599157
fication, protein turnover, c	-0.2292554	-0.4132001	-2.1720107	-0.2163762	-0.387147	-2.0781192	-0.8407098	-0.1068015
fication, protein turnover, c	-0.4431738	-0.0958752	-3.2549404	-0.7263965	-0.1479741	-0.2169269	-0.649843	0.20854693
fication, protein turnover, c	0.80607956	-0.4806857	0.28889641	-0.407367	0.7955573	-1.1496667	0.50141561	0.68809156
fication, protein turnover, c	-0.1570292	-0.9847761	-0.737197	-0.9325273	-0.3507	-0.9853382	-0.0216511	0.20336564
NA degradation>map05152	-0.10891	-0.8839067	-0.4427605	-0.6023019	-0.3070679	-0.5364768	-0.4485877	0.10220486
fication, protein turnover, c	0.25505906	-0.5914364	-1.1696793	-0.0929908	-0.1146447	-1.1000975	-0.18107	0.48190195
fication, protein turnover, c	-0.5411845	-0.5544801	1.586182	-0.1158191	-0.5470043	-0.0506441	-0.5129615	-0.0189047
fication, protein turnover, c	0.12115823	-0.4274185	-0.6391964	0.24098109	0.15864833	-1.0795141	0.49489407	0.78187949
fication, protein turnover, c	-0.1126591	-0.7308631	-0.6296584	-0.5605247	-0.3419961	-0.5880999	0.45708727	0.89581727
fication, protein turnover, c	0.34017081	0.0358097	-1.6122878	0.21471829	0.21438617	-1.3642841	-0.4070875	1.00399393
fication, protein turnover, c	-0.929494	-0.3444488	3.05426567	0.05552192	-0.2124346	0.38452852	-0.4282003	1.04974133
fication, protein turnover, c	2.46684247	0.93656958	0.3128908	0.27354041	1.34425893	-0.6635261	0.2191002	1.87960821
gionellosis>map03018 RNA	2.58029782	1.18604036	0.97127715	0.5762756	1.51957669	-0.370296	0.48579855	1.65854709
fication, protein turnover, c	-0.4583655	-0.5004939	0.62318225	-0.0922402	-0.6363037	-0.6430843	-0.4528484	-0.2293173
fication, protein turnover, c	-0.2258234	-0.6858301	0.4246663	0.07000455	-0.1854023	-0.7152852	0.19424189	1.05234528
fication, protein turnover, c	-0.3035268	-0.7026269	-3.7242539	-1.4457416	-0.1492919	-2.422842	-0.1807589	0.6380241
fication, protein turnover, c	0.25787311	-0.1764273	0.34485978	-0.1230471	0.1688517	-0.2776609	0.58194715	1.35860415

Supplemental Table 2 Tab 1

fication, protein turnover, c	-0.2365621	-0.7976292	-1.3903371	-0.1856073	-0.1159869	-0.2198036	-0.2077513	0.67546971
fication, protein turnover, c	-0.0060845	-0.8319828	-0.662789	-0.393638	-0.062032	-0.2493719	0.6002802	0.44226668
fication, protein turnover, c	-0.0117207	-0.7540983	-1.339545	-0.6041785	-0.0836108	-0.5609087	0.57510554	0.17470119
fication, protein turnover, c	0.57656722	-0.5587119	1.26199788	-0.4276282	-0.0843081	-0.0782169	1.06769178	1.30821652
fication, protein turnover, c	-0.7188855	-0.6291266	-1.9251163	-0.4015544	-0.557126	-1.5783965	0.05715923	1.81759923
fication, protein turnover, c	0.14672769	-0.1850225	-0.8886278	-0.3361354	0.39514781	-0.6643027	0.49755007	0.14101423
fication, protein turnover, c	0.49189011	0.26013284	3.99168705	0.71705817	0.71915965	-1.4037046	0.21467951	1.18303908
fication, protein turnover, c	1.09458801	0.93164188	-0.4778047	0.47058168	0.97072801	3.88681078	1.61160453	1.85314155
fication, protein turnover, c	1.06240574	-0.4918574	-0.1392638	-0.3203739	0.45309585	-2.6000027	1.3418412	1.64143619
EC:1.11.1.9	0.53706534	-0.0154325	0.6015903	1.36724121	0.28486089	-0.0798837	1.52579764	2.5431314
EC:2.5.1.18	-0.2814147	-0.4396686	-1.4260596	-0.8200416	0.28134171	-0.7381774	0.4767091	-0.0732172
fication, protein turnover, c	-0.694791	-1.0645359	-0.0388743	-0.4585582	-0.5713884	-0.073295	-0.7732101	-0.3480295
fication, protein turnover, c	0.19825844	-0.3567076	-0.3913712	-0.2856323	0.20691004	0.14351742	0.11565518	-0.0195885
fication, protein turnover, c	-1.0152089	-1.0877636	1.20492997	-0.4230904	-0.6800024	-0.1446128	-1.2788376	-0.3888733
fication, protein turnover, c	0.01217085	-0.9685869	-0.0802829	-1.0473569	-0.1505776	-0.6138104	0.05970556	0.24363349
fication, protein turnover, c	0.5980688	-0.0484795	-0.1208033	0.2004401	0.18347078	-0.1794953	1.56816771	1.35800787
fication, protein turnover, c	-0.3328679	-0.8266021	-1.8371252	0.25513928	0.1057904	-0.4626889	0.95805311	1.22677413
EC:2.5.1.-	-0.8337957	-1.1550183	-2.3123116	0.03149	-0.1551334	-0.6142458	0.26163006	0.69800681
osynthesis of Cytochrome	-1.4579058	-1.6044087	-2.3284649	-0.1988076	-0.5158451	-0.4848483	-0.7028224	-0.1791347
fication, protein turnover, c	-0.0811616	-0.6000703	-0.4939293	-1.1573938	-0.2243168	-0.3089467	-0.0129253	0.49085437
fication, protein turnover, c	0.06475251	-0.5801019	-3.554892	-1.3997497	-0.0756049	-1.0730315	-0.3913902	-0.2044308
EC:1.11.1.9	0.34198639	-0.3530833	-2.0713222	0.94846202	0.51444337	0.13871509	0.6996931	1.98270455
fication, protein turnover, c	0.17069285	-0.3297172	-0.1697321	-0.4162684	0.18487281	0.30446784	0.29175006	0.98264843
fication, protein turnover, c	1.05860212	-0.1831225	1.94907689	-0.0560589	0.17037195	0.5095588	0.89846592	0.57303812
fication, protein turnover, c	0.9999107	-0.0773319	1.85697805	0.27616082	0.47189233	0.35303737	0.56491642	0.28407359
fication, protein turnover, c	1.22239242	-0.0865649	0.28950662	0.66488384	1.10034616	0.21336218	2.34735069	1.91196702
fication, protein turnover, c	0.18211591	-0.6716534	-0.9903736	-0.4886844	-0.6300616	-0.4771517	-0.1143133	-0.0397876
fication, protein turnover, c	0.46764981	-1.0823496	-2.1503852	-0.9917311	-0.0716376	-0.9687771	0.21670576	-0.3142238
fication, protein turnover, c	-0.1299348	-0.2560445	-0.2008284	-0.4612379	-0.1833602	0.22684621	-0.0087529	0.32753403

Supplemental Table 2 Tab 1

fication, protein turnover, c	0.51231866	-0.1608738	0.55701382	0.07769492	0.03404382	0.10674823	0.47145133	0.5201839
NA degradation>map05152	0.95313244	0.12258416	2.32685452	-0.0109709	0.1649826	-0.2832461	-0.3915685	0.40441722
fication, protein turnover, c	-0.8112081	-0.5913296	1.93185131	0.01962	-0.4569609	-0.1330482	-0.8591763	0.27855283
fication, protein turnover, c	-2.372093	0.16405447	-1.0143432	-0.12727	-1.4783969	3.02183228	-1.6919746	-2.0905288
fication, protein turnover, c	-0.0576696	-0.4550004	-1.4835828	-0.681109	-0.0500607	-0.8849408	0.05127979	1.1051473
fication, protein turnover, c	0.11714671	-0.1344853	-2.0676538	-0.978911	0.32098361	-0.0004722	1.27275801	0.8350087
fication, protein turnover, c	-0.2415743	-0.191817	1.51506039	0.05804451	-0.2802745	0.4184781	-0.3635801	0.01122136
fication, protein turnover, c	-0.1807178	-0.1947174	2.07250847	0.34689954	-0.0027012	0.77241983	0.50510132	-0.6698675
fication, protein turnover, c	-1.2921629	-0.8440851	-1.8600297	-0.775251	-0.8643731	0.5293398	-1.0149498	-0.276411
fication, protein turnover, c	0.82732334	0.09697947	-2.017702	0.37497105	0.62360093	0.83625153	1.26314082	1.36520045
gionellosis>map03018 RNA	2.04324997	0.58036678	1.60189079	0.27628697	0.87076675	-0.8709072	0.07533755	1.12021422
fication, protein turnover, c	0.09732219	-0.2449761	-0.6479362	0.06375123	-0.0617286	-1.2035133	0.03119508	0.66960384
fication, protein turnover, c	-0.7572932	-1.0126479	-1.7882732	-1.1337966	-0.6599851	-0.6606249	0.06639732	1.12557261
EC:2.5.1.18	-0.374225	-0.4663942	-0.3350364	-0.0253466	-0.3102813	-0.9060556	-0.3796629	0.3340918
NA degradation>map05152	-0.0670467	-0.7656822	-0.7376243	-0.4159397	-0.1476336	-0.7768981	-0.450346	-0.2246849
fication, protein turnover, c	-0.0088013	-0.6183413	-0.3198253	-0.0711566	-0.2603195	-1.1440822	-0.4606586	0.00962204
fication, protein turnover, c	0.21078692	-0.6816222	-1.3954713	-0.167049	-0.035902	-0.6081793	0.70201659	0.68457542
fication, protein turnover, c	0.15421102	0.07378063	-0.0092362	0.35175435	-0.1361436	1.21417066	1.72921114	1.40425613
fication, protein turnover, c	0.60851103	-0.7080346	-1.9262812	-0.7238952	0.09971803	-1.1248129	0.06884188	0.58821151
fication, protein turnover, c	-0.19258	-1.0100895	-0.0572909	-0.8150089	-0.2447774	0.15282506	-0.0309007	0.55269279
fication, protein turnover, c	-0.1322766	-0.5035085	1.31311528	-0.3250997	0.08861641	-0.4314552	-0.2519838	0.92709466
fication, protein turnover, c	0.76470774	-0.3917516	2.84733224	-0.6082217	0.90037104	0.21922968	1.52625364	0.64940946
fication, protein turnover, c	1.72181752	0.06760212	3.10663648	-0.3234718	1.56072057	0.59085828	2.44956598	0.62953203
fication, protein turnover, c	0.93956666	-0.6374816	2.72994598	-0.9459695	0.73226892	-0.0194879	1.58682071	0.04687156
fication, protein turnover, c	-0.2464545	-0.7351943	-3.1209846	-0.6567463	-0.2417544	-1.8364077	-0.8381287	0.0968155
fication, protein turnover, c	0.01883117	-0.8435997	2.01544145	0.41905739	-0.1360991	-0.3952836	-0.240044	0.45171042
fication, protein turnover, c	-0.8055678	-0.072589	-1.8411559	-0.459111	-0.6163665	-0.9584952	-1.2754846	0.48847405
fication, protein turnover, c	0.76641484	0.75726969	1.50494842	0.74720707	0.52613893	1.38828477	1.61170024	0.88588201
fication, protein turnover, c	-0.6039045	-0.3390762	-0.5025946	0.06593651	-0.3089177	0.65284121	-0.3535335	0.47086628

Supplemental Table 2 Tab 1

fication, protein turnover, c	0.0890181	-0.7562254	-1.3035511	-0.4750751	-0.0974829	-0.6745319	0.06573236	0.67583632
fication, protein turnover, c	-0.1109996	-0.8466082	-0.7671632	-0.5245127	-0.291658	-0.8898843	-0.5228106	0.27322687
ell cycle - Caulobacter	0.02983122	-0.8209562	-0.8326653	-0.4731114	-0.2946536	-0.5658924	0.17814968	0.41127265
fication, protein turnover, c	0.91935415	-0.8182694	-1.0387414	-0.4792786	0.13426541	-1.6381602	0.65096735	0.00126486
BC transporter map02010 Su	-0.2506009	-0.3497241	-1.0253481	-0.512345	-0.5766111	0.13622239	0.04599106	0.38075021
fication, protein turnover, c	1.60327177	0.32328594	0.412994	0.37144189	0.79757609	-0.4050302	0.70457694	0.71177117
fication, protein turnover, c	-0.2251706	-0.6759941	-1.1184922	0.01262831	-0.3184966	0.29127723	-0.1393477	0.5524001
fication, protein turnover, c	-0.3585394	-0.9424228	0.42810522	-0.4939272	-0.5479079	-0.3138059	-0.4378678	0.45836218
EC:2.3.1.-	-1.4404394	0.49816008	0.83048294	4.46434048	0.75678594	-0.3712558	3.29396126	5.0040452
EC:2.5.1.18	-0.2583602	-1.039841	-0.3255417	-0.3076795	-0.4085903	-1.0577262	-0.493811	0.27086877
OD-like receptor signaling p	2.43352845	1.14799606	0.73471379	1.04198849	1.7043356	-0.2927596	1.09991182	1.24414008
fication, protein turnover, c	0.09824357	-0.8914741	0.18148441	-0.4420711	-0.3149655	-0.7231763	-0.3184782	0.50222184
fication, protein turnover, c	0.3648718	-0.3201644	-0.6701723	-0.1783744	0.3982393	0.32586107	0.67132195	0.93832481
EC:1.8.1.9	0.05687647	-0.7651513	0.47638731	0.34825584	0.12217324	-0.2605783	0.01949067	0.42998913
fication, protein turnover, c	-0.4931428	-0.9775721	0.90417567	-0.552178	-0.4210776	-0.346453	0.0309001	0.23118665
fication, protein turnover, c	0.47052541	-0.8077885	-0.8042714	-0.8188811	-0.0339705	-1.2187437	1.05057345	1.73559842
fication, protein turnover, c	-1.1493225	-0.6716393	0.78764047	-0.1455283	-0.7290938	0.27663517	-0.4295743	0.44838591
EC:3.4.21.92	-0.1769098	-0.2432399	-0.310435	0.28135825	0.17923013	-0.4272772	0.6178109	1.43705075
EC:3.4.21.92	-0.0157201	-0.4132844	-0.2486503	-0.084565	0.19192146	-0.5522119	0.51092532	1.05300198
fication, protein turnover, c	0.29467028	-0.8705509	-1.4861648	-1.1901638	-0.0869951	-0.4151525	-0.043047	-0.3002362
EC:3.4.21.92	-0.275242	-0.815218	-0.1640273	-0.3136941	-0.1339317	-0.6429429	0.02482983	1.31610095
EC:3.4.21.92	-0.1526956	-0.9611322	-0.5804695	-0.4567755	-0.4809821	-0.5917296	0.10145168	0.56262958
BC transporter map02010 Ir	0.33009132	-0.3974683	0.90391678	0.13429213	0.14600208	-0.3375126	0.54689338	-0.0357247
BC transporter map02010 Ir	-0.6504584	-0.821813	-0.5516045	-0.4741876	-0.608176	-0.4571896	-0.1142084	-0.9753884
BC transporter map02010 Ir	-0.0205095	-0.866861	-1.0641624	-0.9878028	-0.072301	-0.5180843	-0.1895592	-0.0354135
and metabolism	0.328504	-0.6322533	-0.8968602	-0.5787132	-0.2492329	-0.2552715	1.07042483	-0.0573412
BC transporter map02010 Ir	0.83281308	-0.502409	-2.1721192	0.34282447	0.14386778	-0.1488396	2.58988731	1.10515226
and metabolism	0.71899741	-0.5341487	-2.1721043	0.15862969	0.84314954	0.72230104	2.67381239	1.19807896
and metabolism	1.32755134	-0.3393837	1.79119363	0.32784865	0.52535347	0.01835255	1.14286995	-0.344586

Supplemental Table 2 Tab 1

and metabolism		0.87647878	-0.2564726	0.75844827	-0.5193642	0.49385794	0.14114059	2.14661958	1.31028226
3C transporter	map02010 Ir	0.26025096	-0.5018922	-0.2629301	-0.6568516	-0.1104892	0.17345457	1.52145217	-0.0536459
3C transporter	map02010 Ir	0.20213111	-0.2730781	-0.8216794	-0.1342008	-0.0452042	0.68295632	1.04651563	1.22073185
and metabolism		-0.6348546	-0.5764813	-0.4327597	-0.4917041	-0.1999422	0.45519968	0.24949584	0.89362666
and metabolism		0.17904826	-0.1060668	-0.5134549	-0.5737738	0.11308765	0.14992664	0.78754791	0.7951773
and metabolism		-0.0722529	-0.8761597	0.09540009	-0.2165398	-0.1604588	-1.2058754	0.16668065	0.30557901
3C transporter	map02010 Ir	1.66748985	-0.8253307	1.52888363	-0.2982788	-0.0176806	-2.5570938	-0.9839849	-1.7546508
EC:1.14.99.3		-0.4201527	-0.1193642	-1.9954309	-0.8801052	-0.1258815	-1.8974215	-1.4784663	-1.3031029
EC:1.8.7.1	Sulfur reducti	-0.0338971	-0.7997719	1.33336168	-0.5116641	-0.3003544	-0.8491462	-0.2288454	-0.418607
and metabolism		-0.0651827	-0.777156	1.85773221	-0.4887167	-0.372116	-0.6292758	-0.1190348	-0.1861951
and metabolism		0.13186861	-0.2473174	1.52774239	0.45466495	0.01220414	0.46133289	0.5544638	0.90972578
and metabolism		-0.3562025	-0.0419464	-0.2764285	0.13496373	-0.4194207	-1.3922877	-0.1986982	-0.3508397
EC:2.7.1.25		1.1361896	-0.2965869	-2.5630677	-0.5941683	0.65646649	-2.3437074	0.53562917	0.91015983
and metabolism		0.19956527	0.23106902	-0.945074	-0.4605671	0.14032049	-0.3093578	-0.1846989	-0.0638108
and metabolism		0.05392377	-0.1483255	-2.1759403	-0.6480026	0.01536778	-0.8417036	0.18277965	0.41831104
and metabolism		-0.3302226	-0.0336005	-1.3624036	-0.7927811	-0.5719116	-0.6777094	-0.1719658	0.28036686
and metabolism		-0.4455746	-0.3628715	0.73718454	-0.0543781	-0.4085365	0.27833643	-0.3555436	0.70461378
3C transporter	map02010 Zi	0.57194518	1.46590294	2.40924517	1.53865801	0.37847876	1.07987878	1.27556479	2.13489906
EC:3.6.3.-	map02010 Zi	-0.0990717	-0.209296	1.36075525	0.07631321	-0.1969556	0.24587871	0.70771152	0.6057373
3C transporter	map02010 Zi	0.58201997	0.6449456	1.91461794	0.61959838	0.16586831	0.71144366	0.46888921	1.26117406
and metabolism		-0.6425784	-0.7924741	-3.39199	0.09050403	0.62423067	-2.2084823	0.28606755	1.09220461
and metabolism		-0.2396423	-0.3128406	-1.3123014	-0.715618	-0.1829183	0.21987086	0.08855089	0.81819002
and metabolism		-0.0963946	-1.1294643	1.46091815	0.08930837	-0.229452	-1.7886229	-0.0745695	0.48818333
and metabolism		-0.3874734	-1.2932941	0.96066933	-0.3476358	-0.3138962	-1.7551841	-0.281312	0.285852
and metabolism		3.00363141	-0.308995	4.10774263	-1.5381143	0.33665538	1.5036994	1.53150176	-1.1171517
and metabolism		0.96575989	0.05306617	1.5842876	0.30360928	-0.0059098	0.29607773	0.34112241	-0.3290366
and metabolism		0.76140002	0.09229779	0.20390502	0.09216396	-0.0395962	-0.1419042	0.29011172	-0.1669915
and metabolism		0.48099395	-0.2861519	-0.0056689	-0.2364148	-0.2517573	-0.1386812	0.02925864	-0.249892
and metabolism		-0.3554065	-0.3474662	0.49642859	-0.070428	-0.3765002	0.05652298	-0.6227884	-0.2383724

Supplemental Table 2 Tab 1

3C transporter map02010 Su	0.60168902	-0.0312119	1.34279636	-0.3381501	-0.0308075	-1.5197569	1.2689929	-0.3973983
3C transporter map02010 Su	0.74361288	0.35481116	1.55924706	0.08666026	0.08307408	-0.7332543	0.94260834	-0.4533132
3C transporter map02010 Su	0.19053639	-0.2506903	1.08816505	-0.7030577	-0.3087384	-1.1813177	0.05052515	-0.9998244
and metabolism	-0.0603226	-0.4410952	-1.1533352	-0.7376392	-0.2530922	0.30251381	0.65353267	0.88888787
and metabolism	0.25322149	-0.0445699	-1.916363	-0.4427436	0.43760166	-1.3721383	-0.3315373	0.20109662
and metabolism	0.66043125	-0.116722	3.97968879	1.75775218	0.290582	-0.3592381	0.4996181	1.20065492
and metabolism	-0.3924413	-0.6716276	-0.0904021	-0.6688258	-0.2178723	-0.1941541	-0.4901616	0.1562233
and metabolism	-0.1315583	-0.7544251	-3.0836559	0.01576854	-0.0801331	-1.3596943	-0.0635631	0.88042671
3C transporter map02010 Su	0.68355858	0.07184918	0.7640529	0.74255252	0.62105759	-3.7739827	1.34369832	-0.6554715
3C transporter map02010 Su	0.92828589	0.31708807	1.76112214	1.16232907	0.72845686	-3.4711412	1.60357962	-0.5093785
3C transporter map02010 Su	0.84806535	0.41276655	1.24347983	1.14853863	0.64469589	-4.2690082	1.53142393	-0.492037
3C transporter map02010 Su	0.48309089	-0.1257279	1.27416561	0.78177866	0.51591646	-4.5486009	1.26119621	-0.2684443
and metabolism	1.06102412	-0.345095	3.06365289	0.30615157	0.27893317	-0.6383396	1.48449256	1.10892076
and metabolism	-0.3081325	-1.3201601	0.58702065	-1.046559	-0.5409033	-0.6913019	-1.4084181	-1.1153975
3C transporter map02010 Co	-0.7396341	-1.2122348	-0.8720013	-0.4240831	-0.7869463	-0.4854151	0.17334492	0.92956068
and metabolism	-0.5186281	-0.9852142	3.92279619	-0.3283304	-0.0681227	-0.5076397	-0.2148508	0.41105952
and metabolism	-0.3433171	-0.6393528	-1.5825932	-0.1986112	-0.3283536	-0.9044441	0.10912087	0.71099016
vo-componen Phosphate tra	-4.8981752	-0.7510808	-4.5805836	0.86276817	0.68389072	-4.0170787	0.26987131	1.53079538
3C transporter map02010 Ph	-4.9857485	-0.6536067	-3.5884749	1.23183041	0.54836815	-3.716799	0.54530119	1.27176099
3C transporter map02010 Ph	-4.6226038	-0.758363	-3.1722148	1.2744804	0.35274635	-3.1759052	0.56506155	1.28414762
EC:3.6.3.27 map02010 Ph	-3.0282773	-0.4432732	-4.2253779	1.40983311	1.00877919	-2.6735413	1.34980253	1.89696475
and metabolism	-2.1202201	-1.3354525	0.54248906	-0.4511023	-0.6651505	-1.7643528	-0.7400201	-0.0028181
and metabolism	0.30080116	0.13850555	1.88241639	0.79295047	-0.1531418	-0.4176204	0.74574405	0.48007704
vo-componen Manganese t	-0.4727425	2.15610432	0.50834435	-0.1308393	0.25812596	0.45929094	1.51774187	0.87999167
vo-componen Manganese t	-0.1991095	2.79964568	2.41524305	0.77141489	0.2409391	0.01102095	1.50799506	0.14820073
vo-componen Manganese t	0.19225395	3.06992245	2.29634011	-0.2131407	0.30459633	-0.2550889	1.44305137	0.34801269
and metabolism	-0.0425529	-0.426088	-0.7067061	-0.0792488	0.02752956	-1.1070509	-0.5490612	0.00496436
EC:3.6.3.12	-0.3688099	1.06279536	-2.2125257	-0.2216237	-0.2166845	0.12225215	-0.1917214	0.17644198
EC:3.6.3.12	-0.509915	0.58046825	-1.8485044	-0.4821941	-0.5585339	-0.07508	-0.1384981	-0.0776102

Supplemental Table 2 Tab 1

EC:3.6.3.12		-0.1939411	1.0262086	-2.348137	-0.1665425	0.17713393	-0.3707576	0.4342069	0.57770487
3C transporter	map02010 Ir	0.18846881	-0.5295463	-0.3982799	-0.4272168	-0.2391705	-0.2979785	1.44958079	1.23967516
3C transporter	map02010 Ir	0.11351269	-0.7431319	-1.1014448	-1.0020292	-0.1228319	-0.5262171	0.77745025	0.29395567
EC:1.11.1.6	Lignin biosyn	-0.4249573	-0.381078	-1.6242365	0.14026051	-0.5405645	-0.5298832	-1.0445123	-0.8160782
and metabolism		-0.0285653	-0.4214764	-2.1282557	-0.3751237	-0.0319012	-0.5761151	0.42905018	0.78933812
EC:1.15.1.1		0.03723696	0.37931885	3.98344086	1.61589963	0.06222963	0.27752657	-0.1641184	1.65962028
and metabolism		-0.7198291	-0.7971395	1.73938527	-0.5237671	-0.3682122	0.4530768	-0.2728861	-0.021895
and metabolism		-0.4080744	-0.8720058	-1.9906138	-0.9483964	-0.2718034	-0.4326308	-0.7265861	-0.1083816
and metabolism		-0.4890036	-0.7785376	-1.7948624	-1.3145219	-0.3829985	0.20713909	-0.4472688	-0.3165982
EC:4.2.1.1		-0.2280859	-0.671616	-0.0803094	-1.0952486	-0.3366892	-0.753239	-0.1462138	-0.2047656
3C transporter	map02010 Cc	0.05782023	-0.0209639	0.03258853	-0.0999682	0.15764224	-0.1639578	0.56209713	1.20019497
EC:1.14.99.3		0.02228508	-0.4909835	-0.9473067	-0.2561553	-0.3267335	-0.403172	0.31204651	-0.1968234
3C transporter	map02010 D-	0.67533255	-0.5391588	-1.6224111	-0.5499103	0.04260268	-0.1016354	0.72430186	0.8640799
EC:2.7.7.4	Sulfur reducti	0.3352872	-0.7971493	-1.965105	-0.1569738	-0.1485745	-2.0651119	-0.1959785	-0.1496673
and metabolism		-0.2564543	0.48029724	2.59887412	0.32171302	-0.06901	0.15965325	1.33321036	0.8096573
EC:1.18.1.2		0.63847178	-0.1005025	-0.2524039	0.23469202	0.30629449	-1.6850679	0.06874816	0.65374514
and metabolism		-0.4498199	-0.9893636	-2.0311776	0.08692927	-0.3451298	-0.946811	-0.6057762	-0.1056149
and metabolism		-0.7255069	-0.7531304	-0.3287602	0.12824027	-0.0762044	0.05610157	0.36806663	1.75892385
and metabolism		0.32189366	-0.4993474	1.5831632	0.23046978	-0.2362319	0.05892353	-0.009847	0.28548904
3C transporter	map02010 Ir	0.01235454	-0.41604	0.35111357	0.2889321	-0.3021221	0.11067553	0.31934745	0.69820772
and metabolism		-0.2765593	-0.6638195	-2.7799293	-0.784251	-0.4148576	-0.5258978	-0.6368998	0.43144982
3C transporter	map02010 Cc	-0.6725366	0.20049384	-1.0701472	-0.7199256	0.06299032	-0.7972765	-0.1805944	1.31644777
EC:4.2.1.1		-0.6718131	-0.8270623	-1.0555858	0.00586086	-0.3381052	-0.3722266	-0.4863095	0.60764549
and metabolism		0.94513293	-0.5036115	-1.6405177	-0.3280011	0.09776884	-0.9588538	0.61466904	0.31475348
EC:3.6.3.27	map02010 Ph	-0.664941	-0.5303908	-2.2155491	0.09416414	0.0282021	-1.536686	-0.0171519	0.12999426
EC:3.6.3.27	map02010 Ph	-0.6189274	-0.4050673	-1.4829461	0.43263714	0.08033345	-1.5129291	0.18340299	0.27312964
3C transporter	map02010 Ph	-1.0779867	-0.5438616	-0.989902	0.3923612	-0.3112541	-1.3703869	-0.0825584	0.19899628
3C transporter	map02010 Ph	-0.7804942	-0.4521605	-0.5674738	0.58090971	0.02888005	-1.5031765	0.17294157	0.64987008
vo-componen	Phosphate tr	-0.7832115	-0.5534492	-0.7935914	0.43803111	0.18107997	-1.9097064	-0.1288375	0.74417726

Supplemental Table 2 Tab 1

vo-componen Phosphate tra	-1.595894	-0.4625483	-2.2611657	0.02238424	0.47124331	-2.099743	0.30735022	1.79024083
and metabolism	0.00791555	-0.4856011	0.44391473	0.01355645	-0.0314066	-1.4926205	0.27878796	1.13836777
3C transporter map02010 Co	0.82779491	0.52649671	-0.5102975	0.56528235	0.17306558	-0.9624625	1.31610948	2.72927702
3C transporter map02010 Co	1.1186338	1.07747287	-0.0983797	1.19018804	0.58181029	-0.4338472	1.72099674	2.99504316
3C transporter map02010 Co	0.6796539	0.96552903	-0.5663126	1.04019933	0.12331571	-0.62069	1.01709118	2.70938186
and metabolism	-0.4085896	-0.915675	-1.7076727	-1.2283809	-0.2017116	-1.0908283	-0.9263421	-0.5684631
EC:1.7.7.1	-0.1295916	-0.6036178	0.8260564	-0.549996	-0.0605884	-4.5831879	0.51271669	-0.7868247
EC:4.2.1.104	0.97098941	-0.2244339	0.74084835	-0.1478441	0.51525888	-4.3422019	1.52360013	-0.316042
and metabolism	-0.0602729	-0.4408396	3.12247327	-0.164045	-0.2735937	-0.1147337	0.28450627	0.187516
and metabolism	-0.5043328	-1.015835	-0.4268687	-0.745385	-0.5469316	-0.6279417	0.54834006	0.72436331
vo-componen Phosphate tra	-0.6614712	-0.7647353	-2.3694457	-0.9693768	-0.1648043	0.18629043	-0.1501751	-0.1138038
and metabolism	1.25362797	-0.2463255	-0.2751499	-0.2285627	-0.8763441	-0.8807575	-0.5283675	-1.0423037
and metabolism	0.19917431	-0.9711658	1.78448263	-0.0603573	0.15406831	0.75655198	1.37424916	1.01965396
and metabolism	-1.8843068	-1.0246573	-1.0677894	0.68727888	-0.5595247	-3.2257062	-0.2463939	1.93017254
3C transporter map02010 Iro	0.5272216	-1.3347655	1.55632181	-0.6832388	-0.3883267	-1.326287	-1.5108002	-2.0045506
3C transporter map02010 Su	-0.8782127	-0.4171665	-1.4409879	-1.0098279	-0.5889173	1.33076027	0.53683929	1.20148824
and metabolism	-1.0207306	-1.0803263	-1.7221262	-1.0137136	-0.7089886	-1.0542763	-1.2973475	-0.4557737
and metabolism	-0.3297299	-0.100092	-1.599156	-0.1017683	-0.4543951	-4.9739342	-0.7505781	-1.9995952
EC:2.7.4.1	-1.5678631	-0.7868698	-1.1783647	0.57160772	0.11641539	-1.4440258	0.25334348	0.72780293
vo-component system	-0.8146518	-0.8213243	-0.0245667	-0.4472914	-0.6448027	-0.1588557	0.76712087	-0.0003882
and metabolism	0.98842249	-4.5693773	-0.8126046	1.00119538	-0.0484813	1.10460598	0.25467046	-0.317651
and metabolism	-0.1812531	-2.1888415	2.42987765	-1.0797606	-1.0344583	-1.3314353	0.1353311	-0.9011558
and metabolism	-0.3707672	-0.4724075	-0.9705267	-0.3413743	0.27890537	-0.0525179	1.52516031	0.71934288
and metabolism	0.26119019	-0.6684055	-0.0996513	-0.6424072	0.03848267	0.01790526	0.58267712	0.00140183
and metabolism	1.94533665	1.38796471	-2.7492941	1.52446671	1.11609294	0.36701106	3.22610475	2.39528805
3C transporter map02010 Pu	-0.5689291	-0.7670682	-1.4107974	-0.4439889	-0.5993656	-0.5972561	1.52494597	0.75051659
3C transporter map02010 Pu	-1.1990904	-1.8834485	-4.0450928	-1.853409	-0.758968	-1.4609847	0.6391918	-0.653874
3C transporter map02010 Bi	-0.9708712	-1.5640346	0.71492713	-1.0351189	-0.4343435	6.59133021	1.36663892	-0.0924947
3C transporter map02010 Bi	0.04531669	-1.6725581	-1.9074219	-2.3022323	-0.4579274	6.2021611	1.87774907	-0.8011711

Supplemental Table 2 Tab 1

EC:3.6.3.-	map02010 Bi	-0.4126527	-0.3731418	-0.6937546	-0.140865	-0.4090508	2.74345327	0.13212773	-0.1347968
EC:3.6.3.-	map02010 Bi	-0.4400959	-0.581948	-1.3257738	-0.7095211	-0.3462035	2.84497868	0.25926509	-0.0787393
and metabolism		0.02012808	-0.4910801	-2.2140501	-0.4024784	0.11438037	-1.1471547	-0.1188198	1.19413523
and metabolism		-0.3641568	-0.8078425	-1.3494083	-0.6284165	-0.2300737	-1.0154211	-0.215571	0.56496184
and metabolism		0.04845235	-0.67163	-0.973779	-0.1526834	-0.0773373	-0.7314676	0.0914107	0.90122158
and metabolism		-0.6184064	-0.6140845	-1.0337488	-0.8275093	-0.4449161	-1.3540518	-0.1507241	-0.2160592
and metabolism		-1.1049147	-0.18884	-0.6222268	-1.3475794	-0.6141173	-1.6030713	-0.4323055	-0.9222161
and metabolism		0.14981642	-0.0767823	-0.6689639	-0.4250171	0.16916502	-0.7661024	-0.1730657	0.31901146
3C transporter	map02010 Su	0.40127915	0.55717162	0.93880494	1.15061228	0.44890401	1.37514997	0.89701463	2.4568259
3C transporter	map02010 Su	0.69116512	0.76902132	-1.1696757	0.30153808	0.35768579	0.76050982	1.33256067	0.92226758
EC:3.6.3.25	map02010 Su	0.33813202	-0.1022362	0.42299311	-0.2463726	0.01525914	0.21935014	0.34430081	0.68493869
and metabolism		-0.16132	-0.8884868	-0.1865789	-0.1241781	-0.2822698	-0.0421667	-0.0309848	0.69752417
EC:1.3.7.7		-1.059532	-0.4762426	-4.2523567	-0.2761583	-0.5769686	-2.123229	-1.3163693	-0.6189049
and metabolism		0.28282245	0.4827326	-1.6643987	0.15992059	0.28229607	0.08446286	0.96669061	1.88115557
and metabolism		-0.3412168	-0.5968857	-3.2010223	-1.0175576	0.03334472	-0.3759322	0.42418383	0.51630826
and metabolism		-1.9439631	-0.871311	-3.0747052	0.32350691	-0.4849246	0.59404399	-1.0997009	-1.5553925
and metabolism		1.2968194	0.04445713	-1.1697022	-0.0856632	0.29355141	0.76047631	1.50464787	0.80025107
and metabolism		-1.0250473	-0.8236115	-0.4212359	-0.3985018	-0.437547	-0.864847	-0.4540445	0.68368302
and metabolism		-0.0681715	-0.0042924	7.90643195	0.41759916	-0.3031088	0.71164096	0.88560026	0.42137601
and metabolism		0.60720468	-0.351561	0.79734014	-0.2976771	0.45990524	-1.0719805	0.11488765	0.69938559
and metabolism		0.62065072	-0.3478378	0.75872821	-0.2976868	0.4651666	-1.0770386	0.0933888	0.69526477
and metabolism		-4.5030711	-4.6886268	-4.533613	-4.8906308	-2.3769398	-4.0907677	-1.3964279	-3.7927586
and metabolism> Q - Secon		-0.1901294	-0.8628634	0.01132814	-0.6476997	-0.3644023	-0.7488752	-0.3943905	0.15035563
and metabolism> R - Gener		1.06767235	-0.0422639	-1.9219202	0.00997764	0.4743423	0.18375693	1.48592259	1.46266831
and metabolism> R - Gener		-0.8176831	-0.7393306	0.4940646	-0.7215298	-0.4149488	-1.0759508	-0.737378	0.38989005
and metabolism> R - Gener		0.39155713	-0.6353233	0.93637608	0.81819914	0.68566891	1.28575997	1.80969067	2.32755897
ylycyclic aromatic hydrocarb		-0.0874451	-0.5544096	-1.4719097	-0.8772248	-0.2144659	-0.3994385	-0.1720046	-0.1465763
and metabolism> R - Gener		-0.2035674	-0.5870342	0.09124823	-0.6868106	-0.0599723	0.69410231	1.41296578	0.90540041
and metabolism> R - Gener		0.26038815	-0.0568774	0.44503018	0.34327621	0.32339676	0.23408115	1.19959964	0.96313156

Supplemental Table 2 Tab 1

biosynthesis, transport anc		-0.0708279	-0.8415155	-0.5322822	-0.019269	-0.3385722	-0.0066851	0.33197059	0.68119206
biosynthesis, transport anc		0.1841685	-0.2794508	3.30591631	1.52908294	0.68590222	1.47886774	2.66599403	2.66473271
biosynthesis, transport anc		-0.667888	-0.8254292	-0.2052619	-0.5737854	-0.3584818	-0.8390062	-0.0454151	0.94027954
biosynthesis, transport anc		-0.9500908	-1.1953535	-0.4327214	-0.931323	-0.9211571	-1.2616836	-0.356025	0.14935916
biosynthesis, transport anc		-0.3055366	-0.9754626	-0.5125979	-0.3960036	-0.1885598	-0.9626782	0.49426624	1.1450524
EC:3.1.1.45		-0.4142294	-0.8787221	-1.6971167	-0.279075	-0.1618883	-1.063069	-0.0815122	1.05681274
biosynthesis, transport anc		-0.2448874	-0.7047024	0.72041526	-0.1806722	-0.4429809	-0.7283961	-0.4533948	0.30371582
biosynthesis, transport anc		-0.5502779	-0.6505625	-1.5157052	-0.6695237	-0.4534834	-0.5473522	-0.1286754	0.75012629
biosynthesis, transport anc		-0.5667365	-0.7704923	-3.3395578	-0.756248	-0.3482303	-1.3914486	-0.8972352	-0.375757
biosynthesis, transport anc		0.00313038	-0.9095032	-2.1129903	-1.2044818	-0.1057506	-1.6889538	-0.6927919	-0.3377397
biosynthesis, transport anc		0.46704867	-0.7119433	-2.5734082	-1.3019907	0.15930136	-2.1499832	-0.4458743	0.01732785
biosynthesis, transport anc		0.07503038	-0.8338613	2.82550215	0.63420558	0.24346181	0.23117682	1.47035903	1.95995408
biosynthesis, transport anc		-0.650395	-0.8100584	-0.7880666	-0.3725999	-0.3600046	0.58221277	-0.447831	-0.073911
biosynthesis, transport anc		-0.5897834	-0.985727	-2.1082838	-0.9568626	-0.4513259	-1.1323307	-0.5447532	0.44782712
biosynthesis, transport anc		0.00126159	-0.6772351	-1.4944394	-0.6724762	-0.1029299	-1.081263	-0.2880782	0.81843431
biosynthesis, transport anc		-0.4874624	-0.5963165	0.42503686	-0.2161603	-0.2704261	-0.4593113	-0.2151917	0.55294347
ɔlycyclic aromatic hydrocarb		0.43024707	0.50827696	-0.3117778	0.56048474	0.69316225	0.53609822	0.40796663	-0.1669271
ırotenoid biosynthesis		0.21743502	-0.8279382	-2.7674055	-1.5192153	-0.4243338	-1.2008642	0.17995755	-0.270348
EC:5.-		-0.3585175	-1.0029572	-0.1527758	-0.7847057	-0.5759639	-1.0579341	-0.2845054	-0.1309149
biosynthesis, transport anc		-0.0219974	-0.374568	-0.1666697	4.09437413	1.03790961	-0.6814547	1.82147842	4.96599395
biosynthesis, transport anc		0.75523457	-0.1856697	-3.1994157	-0.9804923	0.28339941	-1.8909652	0.1261311	0.01530467
:tion only		0.23741999	-1.9968419	4.98152766	-2.0054188	-1.1959074	-0.6740797	-0.8893123	-0.1711895
EC:3.6.3.-	map02010 Li	-0.0862085	-0.7342231	2.55073382	-0.7642465	-0.0852679	-0.8771264	0.17545526	1.10143345
:tion only		-0.5107125	-1.2109511	-1.4251644	-0.8170282	-0.0507129	-1.9648765	-0.2057686	-0.1316737
:tion only		0.02774076	-0.6405976	-1.3508918	-0.8137117	-0.3318368	-0.8520066	-0.1095596	0.20608757
:tion only		1.07468374	0.27604773	-1.976426	0.57183072	1.05680062	0.52263162	2.86949094	1.99851376
:tion only		-0.324669	-1.0628862	-0.7819912	0.23078964	-0.4753355	-0.4447748	0.6960812	1.12501197
:tion only		-0.4430461	-0.5196257	-0.4596881	-0.2310223	-0.1234252	-0.1032818	0.35073543	1.05686008
:tion only		-0.0545175	-1.2036945	-2.083585	-0.6320932	-0.2471101	-1.5174181	0.53177287	-0.5105682

Supplemental Table 2 Tab 1

:tion only		-0.4716664	-0.5093364	-0.3384431	-0.5753854	-0.5074842	-0.456532	-0.550981	0.28314436
:tion only		0.18393731	-0.7500745	-0.119664	-0.8182342	-0.2548221	-0.4582087	0.80474266	1.38923473
EC:1.3.1.24		0.61151529	-0.250366	0.05268696	-0.415975	0.29661152	-0.867283	0.57787613	0.86189827
:tion only		-0.343011	-0.8114567	-3.2967945	-1.316609	-0.0993174	-2.5937716	-0.7243185	0.10128371
:tion only		-0.2062186	-0.7255911	-1.7075287	-0.6811507	-0.1904263	-0.6459583	-0.1924579	0.59153528
:tion only		0.04445249	-0.0714369	-0.1975484	-0.2125911	-0.2955693	-1.3985913	0.56894861	1.04093624
:tion only		0.34057435	0.18252777	0.64555706	-0.2867843	-0.1440596	0.20179564	0.46959736	0.68393316
:tion only		-0.300697	0.16587968	-1.1697035	-0.7907265	-0.1705554	0.3984555	-0.1688522	0.47882567
:tion only		-0.6904706	-0.6716172	-0.1697063	-0.9117696	-0.6722953	-0.1830123	-0.2144357	0.09696717
EC:3.1.2.6		-0.1646898	-1.2310109	-1.3721623	-1.4761133	-0.6010569	-1.1581965	-0.178159	0.18317459
:tion only		-2.3608644	0.52144197	-0.6436423	1.25944807	0.55735219	-2.1145718	1.20363169	1.14898228
:tion only		-0.3828313	-0.1987809	-1.0408288	-0.1965593	-0.122661	-0.2093455	0.39841577	0.73582101
:tion only		-0.4477035	-0.619402	1.94607169	0.10256185	-0.3559276	-0.2104145	-0.2332084	0.3932769
:tion only		-0.404051	-0.749365	-2.0404189	-0.6998758	-0.4515958	-1.1818852	-0.5422633	0.12009623
:tion only		-0.5943612	-0.9098706	-5.6934587	-1.5022746	-0.1816261	-1.3092299	0.26102017	0.20611223
:tion only		1.84932918	0.06518842	-1.1701896	0.82861887	1.27888289	-0.0812796	3.09154566	1.45869371
:tion only		0.91980369	-0.4086914	-0.6842896	0.22300419	0.28918799	0.52970575	1.99010154	0.36814059
EC:3.6.1.19		0.15936941	-0.7047962	-0.0143777	-0.2681163	-0.2130271	-1.8606417	1.08531416	1.09421579
EC:3.1.3.18		-0.2524772	-0.4048352	0.65045974	0.11233994	-0.2200727	-1.3215202	0.48197981	0.19261229
:tion only		-0.2399743	-0.5016914	-1.7102826	-0.9217992	-0.2791378	-1.6969477	0.30431447	0.48762486
:tion only		-0.8160988	-1.0742268	-1.4478071	-0.7983492	-0.7797683	-1.135058	-0.8337074	0.3749304
:tion only		-1.1308421	0.74245784	-0.9789707	0.02701158	-0.7460712	1.17421344	-0.0617773	-0.2370784
:tion only		0.04066015	-0.7985909	-1.2566794	-0.4267066	-0.1402834	-1.0020413	-0.1541359	-0.127601
EC:3.8.1.5		-0.277594	-1.0719387	-2.4107492	-1.4198173	-0.4402914	-2.4311683	-0.4491531	-0.173517
:tion only		-0.5650894	-0.3629255	-0.2060939	-0.5516948	-0.3172023	-0.5243116	-0.1931331	0.05642645
:tion only		-0.5579218	0.40413111	0.3075755	0.26177307	0.23586188	0.51138959	0.2892394	0.8420797
EC:4.2.99.20	Menaquinon	0.06992827	-0.587323	1.84877891	-0.1380287	0.13889751	-0.506477	-0.1271465	0.80781192
:tion only		-1.0393693	-1.0491868	1.89468054	-0.0062056	-0.6855572	0.97501567	-0.3951455	0.0796186
:tion only		0.7425764	-0.3331025	1.06370664	0.67424322	0.5214011	1.06350888	1.7312736	1.60132513

Supplemental Table 2 Tab 1

:tion only		0.34755869	-0.1936176	-0.9769344	-0.4285216	0.28260765	1.79918997	0.6503744	1.22857671
EC:3.1.2.12		-0.6853994	-0.509987	-0.0247908	-0.4674452	-0.2954346	-0.6190088	-0.3429803	0.19407485
:tion only		-0.1319819	-0.867524	-0.957172	-0.3120691	-0.3893503	-1.1001425	0.27963549	0.71282928
:tion only		-0.432579	-0.5574575	-3.3827099	-0.3076761	-0.4459447	-1.3427447	-1.1369363	-0.5083849
3C transporter	map02010 Pe	-0.471672	-0.5983962	-2.2007522	-0.3181664	-0.2396624	-0.8979383	-0.4938425	0.69530294
:tion only		-0.7161631	-1.4096132	-1.0173978	-1.0193884	-0.5035217	-1.4544999	-0.5642587	0.28408659
:tion only		0.38093407	-0.3922909	0.35728518	-0.1582436	-0.16257	-0.3642122	0.54751803	0.45651798
:tion only		0.60723701	0.05084062	0.53073887	0.53231907	0.62945288	0.88221713	1.6107486	1.6412168
:tion only		0.79016172	0.25725598	2.27956793	-0.9512194	0.11097701	-1.4466595	0.6025658	-1.0509738
:tion only		0.01487612	-0.3107478	4.37634073	1.22846574	-0.3071096	-0.1190303	0.46830288	0.7853246
:tion only		0.02224914	-0.0525293	-0.4371773	0.18551375	-0.062933	-0.4862428	0.35291551	0.83172503
:tion only		-1.2365098	-0.1652541	0.85869942	0.18761436	-0.6681323	-2.5081446	-0.1073699	-0.3770091
EC:3.1.1.3	map00561 Ac	-0.0824998	-0.2286551	1.0495064	0.52916116	0.3233664	-0.3557793	0.73164743	1.9082437
:tion only		0.55404144	-1.0984696	1.00417298	-0.5679816	0.07409795	-0.2152288	1.35029198	1.11104484
:tion only		-1.6217354	-1.1085311	2.90564097	-1.6698739	-0.4950919	-0.8920417	-0.4436532	-0.0694634
:tion only		0.519333	0.22460311	0.98230346	0.06086579	0.27894921	1.15049789	1.42756587	1.09176406
:tion only		0.06672742	-0.4492359	0.78866911	-0.3418457	0.03085287	-1.3576158	0.80875305	0.94579018
EC:3.1.3.5		-0.6748519	-1.2846083	-0.977055	-0.4530378	-0.7030554	-1.4977666	-0.2415317	0.05131121
:tion only		-0.4770932	-0.9810475	-0.3136099	-0.2190405	-0.5159045	-1.2482631	-0.5959668	0.21076433
EC:5.4.2.6		-1.0092354	-0.9198752	1.03744098	-0.2749752	-0.8460601	-0.2455458	-0.3796588	-0.0012464
:tion only		-0.2354849	-0.6377203	-2.2693444	-1.3530385	-0.1420176	0.20960223	0.05393991	-0.1279782
:tion only		-0.350503	-0.8751659	-0.9299684	-0.374021	-0.2200854	-0.9790256	0.14197767	0.54311224
:tion only		-0.4795035	-0.4061805	0.47239547	-0.7687935	-0.0689931	-0.1379951	0.45617323	1.04563887
:tion only		0.11360976	-0.173581	-2.5432053	0.73535412	0.25158083	-0.5889174	0.64106525	0.65884767
:tion only		0.41350579	-0.8140109	0.00384746	-0.0884694	0.05654453	-0.8211583	0.436702	0.39564477
:tion only		-0.1505476	-0.0340722	0.46774794	0.34326379	-0.2554327	0.36628433	1.5751161	1.59820938
EC:3.1.3.18		0.39383993	0.09017201	-0.7391161	-1.5480961	0.32734278	0.02842366	0.9503814	1.27271228
:tion only		-0.622372	-0.9395901	-0.0479431	-0.5708096	-0.7105553	-0.531495	-0.2372786	0.46234003
:tion only		-0.3971728	-0.9371809	-1.5965124	-0.3499566	-0.3534599	-1.3674197	-0.4856429	-0.4003532

Supplemental Table 2 Tab 1

:tion only	0.94953819	0.2927586	-1.667036	0.19980096	0.21374696	-0.7881065	1.10367419	1.08325627
:tion only	0.23559179	-0.2781683	0.09690037	-0.4225373	-0.1367727	-0.3409121	0.04158265	0.22974757
:tion only	-0.2016197	-0.4243561	-0.8654449	0.18988537	-0.0815623	0.19600042	0.19178878	0.16254875
:tion only	-0.8276763	0.27172169	-1.9447144	-0.9381573	-0.5250014	1.02820089	-1.0912628	-0.2379933
:tion only	1.67520723	-0.0868408	2.28958203	0.43595484	0.93067206	1.41321141	2.89685735	2.10492299
EC:4.2.-	0.47083244	-0.8267468	1.54039054	-0.2685484	-0.0946902	-1.3848677	0.37240776	0.06249677
:tion only	-0.4005758	-0.797136	-3.5067776	-0.9637209	-0.4409602	-1.826455	-0.5233597	0.12503506
:tion only	-0.5686799	-0.7074805	-4.1511657	-1.2239005	-0.1050081	-0.9026564	-0.5480573	0.73295966
:tion only	-0.3558736	-0.864254	-4.4000732	-1.1645476	-0.0271232	-0.6770184	-0.3314211	0.00519235
:tion only	-0.1745885	-0.6973772	-3.9023772	-1.4996296	0.26565342	-0.8690032	0.04646609	-0.1914687
:tion only	-0.7405401	-0.6230773	-2.820561	-1.2225002	-0.1664673	-2.5898125	-0.5442002	-0.5649329
:tion only	-0.21391	-0.310348	-4.4394925	-1.0328423	0.28510247	-2.193726	-0.0554577	-0.484815
:tion only	-0.6837629	-0.4326196	-7.5046633	-1.1024159	0.37490142	-2.4036283	-1.0943314	-0.2749354
:tion only	-0.0567518	-0.3371431	-1.992878	-0.5363512	0.37223104	-1.5251889	0.75202664	0.94502737
:tion only	-0.7031099	-0.4144886	5.11659337	0.58563076	0.060929	-0.5450742	-0.279934	1.00498656
:tion only	0.52887609	-0.7832751	1.4006879	0.11421969	0.24342736	0.07716704	1.61545999	1.67812591
:tion only	0.1256826	-0.6817368	-2.9373174	-1.2993278	-0.3186751	-1.3540333	0.30396583	0.54271017
:tion only	0.52070761	0.02979374	-1.9817521	-0.6318442	0.12544525	-0.7622985	-0.0560572	0.06055771
:tion only	0.37770977	-0.3111028	1.44151006	-0.9786555	0.01310653	0.11873479	0.72588178	-0.0049139
sine degradation>map0078	-0.134591	-1.0132927	0.92065439	-0.3709402	-0.3915817	-0.9854219	-0.1353708	-0.0248444
sine degradation>map0078	-0.3576206	-1.1443731	2.50023153	-0.2652086	-0.871032	-1.2487914	-0.0205132	0.10870272
:tion only	-0.212408	-0.9006302	-1.5210424	-0.3359209	-0.2252306	-0.8374059	-0.0523671	0.92617321
:tion only	-0.4450781	-1.4248653	-2.0207043	-1.0475429	-0.4671314	-1.8971154	-0.7319624	-0.0008057
:tion only	0.55159852	-0.2441711	1.87320602	-0.0684111	-0.114867	0.00648032	0.58339551	1.30608789
:tion only	0.37211036	-0.7715989	-1.6827193	-1.1094008	-0.0960911	-1.2233445	0.41294314	0.37068064
:tion only	-0.326248	-0.8173486	1.5859703	-0.1886755	-0.3141646	-0.0550151	0.01828956	0.15176688
:tion only	0.3745374	-0.6615402	-1.2622418	-0.7604034	-0.1249884	-0.5060454	0.05721115	-0.1446467
:tion only	-0.6212165	-1.0566793	-0.707127	-0.7942931	-0.3784546	-0.6500815	-0.4046589	-0.1235927
:tion only	0.27428017	0.13375502	-2.2714941	-0.556645	0.59164457	-0.6478342	0.71935201	0.20874347

Supplemental Table 2 Tab 1

:tion only	1.54310578	0.54208204	-0.1897721	1.37492265	1.24851601	-0.1948836	1.97745743	1.53012754
:tion only	-0.4202889	-0.0327358	-1.4866079	-0.8143729	-0.1299154	-0.0074685	-0.7829425	0.25244065
EC:3.1.2.6	-2.5839801	-1.9218732	1.3155072	-0.4614564	-0.9879332	-2.3857654	-0.990529	0.34275313
:tion only	-2.4224885	-1.8087226	0.28860781	-0.8256283	-1.1192651	-1.9035414	-1.0875222	0.09146095
:tion only	-0.1044772	-0.8097222	0.00273982	-0.4560818	-0.0442299	-1.2465284	0.07624533	0.84211412
:tion only	-0.0985443	-0.3958822	-1.3261251	0.30623321	-0.0039875	-0.5437856	0.23180661	0.67798048
:tion only	-0.8104924	-0.8296743	-0.7786762	-0.5980418	-0.5318056	0.21117616	0.42962229	0.82567507
:tion only	1.04564486	0.76153074	4.99247631	1.12584848	0.82243156	0.04441337	2.36892639	0.72202319
:tion only	-0.2496312	-0.9424802	-0.0753665	-0.2261643	-0.4069646	-1.195518	0.03178557	0.8185374
:tion only	0.01634752	0.16150265	0.87510574	-0.0541325	0.16120179	-0.0165194	0.03494711	0.27246255
:tion only	-0.4035518	-0.3016636	-1.7326359	-0.7818906	0.24850442	-0.6652343	0.30762188	0.61678003
:tion only	-0.3505787	-0.9601	-3.7153079	-1.3583587	-0.2549683	-1.5131855	-0.7166801	-0.3803703
:tion only	0.1283001	-0.6634079	-2.6879702	-0.5580383	0.09716087	-1.1148045	-0.2403208	0.43661432
:tion only	2.05524918	0.05954531	-0.4143949	-0.9671829	0.86389649	4.01714412	1.92973235	0.50275606
:tion only	-0.3835061	-0.8236819	0.96779425	-0.6451986	-0.1610806	-0.1567226	1.63163276	1.20723136
:tion only	-0.6169941	-1.3060041	-0.5362452	-0.664154	-0.7290067	-1.4082826	0.5735367	0.15363148
:tion only	0.64372956	-0.2291155	-0.4551127	-0.094119	0.64765624	-0.4862545	0.65893592	0.67773101
:tion only	-0.9472181	-0.2567453	-2.5326275	0.32701697	-0.7558582	0.00347163	1.65932607	1.44822345
:tion only	-1.6102254	-0.3689616	-1.491683	-0.3005378	-1.4578899	-0.7333407	1.49266747	1.39468325
:tion only	0.8257438	-0.5247168	-1.2767302	0.04683572	0.39881845	0.64624743	2.52701871	2.11369521
:tion only	-0.1820664	-0.8133497	0.35599782	0.38108595	-0.267559	-0.175583	0.28569974	-0.2056999
:tion only	1.18988534	1.30232289	0.83025444	1.0468678	1.08206331	1.52227895	1.99004673	2.15573096
:tion only	0.85446875	-0.1799684	-1.1940231	-0.1044634	0.18539734	-1.9497036	0.7940473	0.43408636
:tion only	1.42126212	0.91332851	-1.6841337	2.26167115	1.27380049	1.062247	2.0776443	2.39795934
:tion only	-0.6082254	-1.1455994	-0.1062124	-0.5890968	-0.3019372	-0.2072817	0.51116062	1.05870314
:tion only	0.10125354	-0.6148197	0.71641084	0.01486576	-0.0643225	-0.7407236	0.99815716	0.8343667
:tion only	-0.2711368	-0.8605189	-0.9398558	-0.4068809	-0.5104905	0.08309181	-0.0599093	0.21049594
:tion only	-0.4789607	-0.6526482	-1.1319752	-0.7008005	-0.6499446	-0.1320862	-0.2793378	-0.0615965
:tion only	1.1010098	0.4733793	-1.8700801	1.29242582	1.51091169	0.76168676	1.31756627	1.35887815

Supplemental Table 2 Tab 1

:tion only	0.04875508	-0.1759503	-0.0586805	-0.3141653	0.09571164	0.53742744	0.29466531	1.05871876
:tion only	0.89872517	-0.4462258	-2.8649234	-1.1235328	0.39536702	-1.1484199	1.03197842	0.62255959
:tion only	-0.6345891	-0.825743	-2.2093016	0.22130819	-0.1139901	-0.9078203	0.07071685	1.98317349
:tion only	-0.2211968	-0.5542525	-0.3108803	0.21550689	0.29285864	0.05647311	1.66783411	1.42545089
:tion only	-0.8730366	-0.887401	2.82651345	-0.8818029	0.19041275	0.18268179	0.1148041	0.25110526
:tion only	-0.4128461	-0.2769209	-0.0393995	-0.457289	-0.2303705	0.73640348	-0.1393205	0.45596699
:tion only	-0.3328488	-0.8531636	-1.288159	-1.1461486	-0.6415556	-0.6224675	0.15530778	0.03971798
:tion only	-0.1014074	-0.3659169	0.3105416	0.01507237	-0.0456717	-0.7867261	-0.2846256	0.50340631
:tion only	1.40711389	-0.1791405	-1.3992037	-0.2459349	0.3953594	-0.4482301	1.10070396	0.94315062
:tion only	0.31634336	-0.2185854	-3.5341362	-1.0069956	0.24039842	-0.6365947	0.43289104	0.69786414
:tion only	-0.5218032	-0.2866817	-1.2975881	-0.2901512	-0.477003	0.1362709	-0.4618639	0.19463192
:tion only	0.88802994	0.30493182	2.33553483	1.111547	0.6453921	0.4388227	-0.0998634	1.4020496
:tion only	0.11194426	-0.4846653	-1.0521754	-0.3673105	-0.2150303	-0.6053443	-0.143659	0.08729194
EC:1.1.1.2	0.12555271	-0.0075882	-1.081046	-0.2626706	0.19105597	0.32811784	-0.3298821	0.42842699
:tion only	0.06241103	-0.1607102	0.93463004	0.05702993	-0.1361347	0.06216119	0.78718413	0.70603737
:tion only	-0.099629	-0.9618043	-0.7133474	-0.5345167	-0.1473504	-0.9390766	0.46273159	0.65362026
:tion only	1.11800388	-0.0866507	0.30423553	0.65889512	0.73221762	0.88561609	1.9235293	1.30454509
:tion only	0.04892585	-0.7297256	2.33724317	0.23694933	-0.2488774	-0.2321277	0.67293903	1.24379287
:tion only	0.94594955	-0.5234682	3.55231393	0.12087533	0.4395808	-0.5260568	0.64034393	1.78322269
:tion only	-0.4026914	-0.7259414	-2.002157	0.31600612	-0.3050151	-1.7693081	-0.2322584	1.12514119
:tion only	-0.4286541	-0.4719255	-0.6744706	-0.277084	-0.3356921	-0.7560253	-0.6654698	-0.0352333
:tion only	-0.0599401	-1.017622	0.71436964	-0.0354372	-0.3132331	-0.8583259	0.84225161	1.11747176
:tion only	-1.2128043	-1.1843569	-1.5790323	-0.9786589	-0.8004916	-1.4143525	-1.1167828	0.30154184
:tion only	-0.2669333	-0.9316268	-0.9123914	-1.5390898	-0.4366876	-0.8475819	-0.1954588	0.28952833
:tion only	0.10297389	-0.3540785	-1.4049117	-0.7244979	-0.4266925	-0.7074709	0.30643117	0.02378547
EC:6.3.1.2	0.24116985	0.54654976	-0.9168003	0.06166467	0.03387602	-2.6265987	0.02208061	-0.733076
:tion only	0.50268382	-0.1190712	0.46254766	0.38126082	0.39757638	0.1708023	0.84480021	1.2786353
:tion only	-0.5837712	-0.758397	-0.0515516	-0.7275368	-0.6494128	-0.3115315	-0.3274706	-0.1492672
:tion only	-0.4622908	0.07499908	-1.2676707	-0.4025329	-0.2448745	-0.8702073	-1.4478491	-0.6994553

Supplemental Table 2 Tab 1

:tion only	-0.6793182	0.09232256	-1.3816827	-0.4318276	-0.4465477	-0.7077057	-1.3139874	-1.3578809
:tion only	0.45424395	-0.721395	0.93348696	-0.4204446	-0.0268051	-0.7194255	1.94314957	1.80746358
:tion only	0.17901173	0.16736594	1.50564295	-0.0968495	0.11743985	0.86137258	0.35253633	0.64520145
:tion only	-0.1543895	-0.0843202	-2.6733937	-0.2755446	0.11293569	-0.2271528	0.38943004	0.38513992
:tion only	0.27690559	-0.6468288	1.31222816	0.08220275	-0.0464683	-0.5469492	1.63202013	1.36957929
:tion only	-0.0795409	-0.2382388	0.78686737	0.07290466	-0.039934	0.51882643	0.34284175	0.69226823
:tion only	0.13455814	-0.4902233	-1.9676741	-0.6715198	-0.1499049	-0.6895499	0.04879977	0.82236235
:tion only	0.1467778	-0.7158199	-0.2049479	-0.096289	-0.1789577	-0.8309149	0.89587483	0.32501323
:tion only	-0.6185497	-0.585273	-0.4134824	-0.4362767	-0.5874913	0.46518579	-0.6286776	-0.2732023
:tion only	0.55127345	1.12094502	1.02293783	0.02127176	0.38873759	1.31908954	1.0029777	1.11366655
:tion only	-0.075715	-0.1033417	3.86785745	1.36300431	0.49774626	0.9277235	1.27423295	2.29879405
:tion only	-0.2927631	-0.6387604	-1.0394912	0.34923116	-0.3159214	-1.0484122	-0.1212629	0.82269655
:tion only	0.18688813	-0.2599065	-0.3909986	0.04105365	0.09893667	-0.6740565	0.39936044	1.44548133
:tion only	-0.3643588	-1.0866691	-1.3029989	-0.6398473	-0.8710141	-0.2423078	-0.2708054	0.08375537
:tion only	-0.2502963	-0.3573866	-3.1826126	-0.6473969	-0.1464549	-0.1272354	-0.0421486	0.27869974
EC:1.1.1.100 Fatty acid bio	-0.2409254	-0.0342594	0.41517401	2.02127528	0.2959951	3.18036344	1.07751385	4.21902436
:tion only	0.21017165	0.2029021	-0.8004892	-0.2060238	0.23978976	0.07403603	0.57512281	0.2020807
:tion only	-0.3662168	-0.7482444	0.34238268	-0.8891092	-0.4743604	-0.5309439	-0.5771723	0.28529963
3C transporter map02010 U	0.07521535	-0.1992238	0.42277724	-0.2229313	-0.132867	-1.0453182	0.07268353	0.43259197
:tion only	-0.9207666	-0.3024228	-0.1340757	0.51532908	-0.466622	0.07401528	-0.1093957	0.71656678
:tion only	0.25897417	-0.0367765	-1.5811875	0.06022363	0.01796789	-1.5588361	-0.149307	0.99747515
:tion only	-0.1432659	-0.101252	0.05179294	1.18780467	-0.1702606	-0.6741541	-0.1674097	1.16503006
:tion only	0.34973179	-0.5331504	-0.0885777	0.28282369	-0.0053011	0.45695434	0.44173505	0.90530551
:tion only	0.53103862	-0.5285537	-1.6263155	-0.6133895	0.15273902	-0.5496098	0.71230417	0.8879528
EC:3.4.21.53	0.22751187	-0.5893582	-0.0530937	0.09313964	0.26202032	-0.517865	0.61383475	1.44172603
:tion only	-0.4400397	-0.2565949	1.4863467	0.05376737	-0.1676628	-0.3853709	0.38869903	0.60510141
:tion only	-0.4322498	0.20286326	-2.4118522	-1.336142	-0.3545688	0.3685866	-0.3524659	-0.2827334
:tion only	0.16135929	0.06283858	0.83650593	-0.1856082	0.03775836	0.32071641	0.59975435	0.81703837
EC:3.1.26.11	-0.0226306	-0.5675338	-0.0429625	-0.0724301	-0.0636437	-0.22763	0.70782783	1.27032776

Supplemental Table 2 Tab 1

:tion only	-0.5403871	-0.2467186	0.7626707	0.35589738	-0.0922322	-0.0612214	-0.0365361	1.17561553
:tion only	-0.8446062	-0.609655	-1.3122148	-0.5378546	-0.5656241	0.03064674	0.04775881	0.92728492
:tion only	-0.2122437	-0.853406	-3.7171627	-0.400003	0.06131874	-0.7523857	0.12160412	1.28907709
:tion only	0.23174225	-0.2833677	-1.107412	-0.3866543	-0.019698	-0.6002276	0.34142384	0.17414564
:tion only	-0.6953287	-0.626792	0.0802796	0.61065965	-0.5679194	0.00141176	-0.1212644	0.7370143
:tion only	-1.0478852	-0.620785	-1.4007362	-0.3242216	-0.4589547	-0.4758439	-0.5604811	0.71364118
:ptidoglycan biosynthesis	0.03660836	-0.654253	-1.4986454	-0.4101241	-0.0189398	-1.2891147	0.11096719	0.41110396
:tion only	1.17136279	0.16973736	-0.5066341	0.02137158	0.49396553	0.29224173	2.16673174	2.12507932
:tion only	-0.0305641	-0.6994137	0.57494569	0.07007789	-0.1759772	-0.5134036	0.20464238	1.00836702
:tion only	0.04056738	-0.6831792	-1.0308116	-0.4484378	0.06990669	-0.4935102	0.40132989	1.0017613
:tion only	-0.5719437	-0.8887667	-1.1571519	-1.3021732	-0.5371049	-0.5003011	-0.300248	0.06469001
:tion only	0.27977893	-1.0139777	-0.6613478	-1.1724141	-0.1639203	-0.9064586	1.21966803	0.70799645
:tion only	0.00586339	-0.9876038	0.15057199	-0.0968783	0.02495078	-1.1055352	0.06036644	0.58295315
:tion only	0.64390539	-0.4327749	2.57441851	0.527247	-0.4174994	0.56025627	1.66364454	2.04621921
3C transporters	0.40702754	-0.4154091	-3.0306877	-1.2196705	-0.0416314	-0.3495055	0.58285566	0.42356574
EC:3.1.2.28 Menaquinon	-0.1504954	0.028904	-0.3623407	0.10891579	0.35429053	0.01394621	1.17344039	1.31029068
:tion only	-0.4340666	-1.0532094	1.3535348	-0.3183658	-0.3250523	-0.2304089	-0.0986332	-0.3548972
:tion only	-0.1649802	-0.6075064	0.73543362	-0.2131269	0.1017338	-0.0505971	-0.2598345	0.26238202
:tion only	-0.4345816	-0.7009253	1.95530495	0.15394386	0.07099539	-0.2953796	-0.1883699	1.08847074
:tion only	-0.3264414	-0.7136214	0.82438256	0.72361511	-0.2817117	0.34476566	0.23931068	1.87716635
:tion only	-0.2056188	-0.7256549	3.22261574	-0.8762942	0.64152651	0.92836097	0.19269908	0.99497196
:tion only	-0.1150968	-0.5305322	-1.1371467	-0.3958937	-0.1090657	-1.0335359	-0.060153	0.89259356
icrobial metabolism in diver	-0.0250279	-0.8830862	1.62258045	0.21152252	-0.1473913	-0.2613644	0.13358074	0.4599425
:tion only	0.37804329	-0.7766045	-1.0139589	-0.6020966	0.01807028	-1.1665925	0.17682823	-0.3879269
EC:1.3.1.33	-0.2635306	-0.4663054	-2.1867642	-0.41651	0.27505968	-2.4923141	-0.9451525	-0.6895317
:tion only	-0.8875023	-1.3055166	1.13287728	-0.069626	-0.5045206	0.80510601	0.4812792	1.24265436
:tion only	0.06181257	-0.3400726	-1.3554507	-0.1317337	-0.0725168	-0.1442259	0.05172332	-0.0407665
EC:3.5.2.10	-0.4830329	-0.7245213	0.0836788	0.14037707	-0.2368107	-0.0419262	0.06875468	0.63921603
EC:4.1.1.46	0.32844038	-0.5551862	-1.8401756	-0.4950646	0.21935619	-0.9557138	0.20887101	0.6729789

Supplemental Table 2 Tab 1

:tion only	-0.8001384	-0.7987334	0.53209023	-0.5463609	-0.2795225	-0.3083766	0.39977372	0.66480721
:tion only	-0.8718602	-0.8565566	-0.3961119	-0.3917045	-0.6493013	-0.4360517	-0.0647828	0.46993104
:tion only	-1.0488386	-0.6766892	0.3730682	0.1739384	-0.4852508	0.14829696	-0.7289636	0.31009378
EC:3.5.1.-	-1.2754078	-1.0866502	0.18253395	-0.402235	-0.9530543	-0.16858	-0.7137125	-0.663366
:tion only	-0.9266156	-1.2627271	0.82314234	-0.1935932	-0.6412237	-0.3108935	-0.0916133	0.29694018
:tion only	-0.5129173	-0.6534926	0.9116667	-0.3399118	-0.7368045	-0.2242258	-0.1964123	0.69483448
:tion only	0.31159007	-0.6172813	-0.0289264	0.22778022	0.37106272	-0.5406773	1.2821178	0.51089888
:tion only	-0.0591406	-0.7609095	0.95019322	-0.5001132	-0.3974962	-0.1511363	0.77532748	1.05954553
:tion only	-0.0439849	-0.641878	1.56273823	0.06570846	-0.2995661	-0.2323753	0.57510741	0.5754651
:tion only	0.50264407	0.5089539	0.79371022	0.39986079	0.61721762	0.78123912	0.99013428	0.32752557
:tion only	0.13462221	0.38110659	-0.1243728	0.62158691	0.0176283	0.05951893	0.42990522	-0.3201719
:tion only	0.23381092	-0.0865727	-0.8897658	-0.359707	0.99066591	-0.4410503	2.05931231	0.41329195
:tion only	0.57568272	0.00638968	-1.269085	0.30407022	1.4068954	-0.2479275	2.00198078	0.19827556
EC:3.5.5.7	0.78226874	0.13553947	-1.2627611	0.49697576	2.03949143	-1.9555976	1.64115356	-0.672562
:tion only	-0.2094809	-0.750688	0.10925854	0.28837843	-0.0429978	-0.6071251	0.26911214	0.88007168
:tion only	0.84191426	-0.2241972	-1.2368941	-0.0805593	0.56866176	-0.1113678	1.33482799	1.48280508
:tion only	-0.7790233	-1.1981886	-1.6792011	-0.9491589	-0.8793158	-0.6946898	-1.0522163	0.10116798
:tion only	0.09847338	-0.5463687	-0.8552882	0.14657644	0.05284116	0.30671416	0.24632835	-0.0778879
:tion only	-0.5484752	-0.9461001	-1.0513096	-0.5671751	-0.3829428	-1.1537949	-0.8273393	-0.0802831
:tion only	1.34778804	-0.7088468	3.51622609	-0.2478941	-0.0930931	-0.0250522	3.9603365	3.07945404
:tion only	-0.385801	-1.0655622	0.68252784	-1.0439487	-0.6395042	-1.1105715	0.22795008	0.52018306
:tion only	-0.3256812	-1.0730198	-0.4830686	-0.8102653	-0.6408735	-0.6421185	0.34734497	0.33338663
:tion only	0.63678875	-0.3560552	-2.5398584	-1.3487724	0.12590628	-1.6962583	0.06951187	0.29559448
:tion only	-0.3399377	-1.3553957	0.98281015	-0.3381962	-0.2064903	-0.91394	0.28203915	0.43271843
:tion only	0.49628143	-0.5780889	0.10510905	-0.2546327	-0.0854529	-0.4456397	0.62573477	1.2265555
EC:3.1.-	0.38642282	-0.1862413	1.62508946	-0.1501113	0.00948144	-0.4457897	1.19782141	-0.4656821
:tion only	0.08786967	-0.2858885	6.01970495	0.80079516	0.288402	0.75868997	0.15081735	0.72710496
:tion only	-0.0775481	0.27592154	0.8684081	0.42344028	0.09469789	-0.1192276	0.29130654	1.03476542
:tion only	0.06533145	-0.4263218	-0.2139176	-0.5605146	0.03462305	-0.1412856	-0.1163132	0.08846859

Supplemental Table 2 Tab 1

:tion only	-0.2276034	-0.6442619	-1.2137831	-0.4222594	-0.3414806	-0.9206318	-0.5527592	-0.1293575
:tion only	-0.8154148	-0.3374441	0.83370507	0.48387753	-0.0535251	0.24054359	-0.6408516	0.66790703
:tion only	-0.2762225	-0.2659141	1.03776112	-0.1028042	-0.4192542	0.22575759	0.46438147	0.70495394
EC:1.1.5.4	0.9793594	-0.0985435	-1.6410018	-0.5214078	0.3303803	-0.7316857	0.23680871	0.41597246
:tion only	-1.2463514	-0.5309242	1.96146078	-0.4249074	-0.1946255	-1.6905044	-1.0231569	-1.4193388
:tion only	-0.7217351	-1.1748747	-1.9465974	-0.7047509	-0.324665	-1.6786383	-0.5222452	0.29113982
:tion only	-0.0437244	-0.9660173	2.41917347	0.15791166	-0.0446854	-1.146449	0.4085233	1.5820327
EC:3.5.1.-	-0.633818	-0.548612	0.32699806	-0.0562457	-0.2920645	0.19817146	0.02557902	0.89403262
:tion only	0.15246807	-0.3090571	-1.6550961	0.10474109	-0.2483578	0.14373868	0.6958319	1.09362669
EC:3.1.3.18	-0.2946971	-1.0225803	-1.9287464	-0.5073659	-0.2633866	-1.4152601	0.06980806	0.27987575
EC:3.1.3.5	-0.8437799	-0.8609026	-2.4566404	-0.5314759	-0.5284024	-2.0201921	-0.1077151	0.99742237
:tion only	0.19520407	-0.19409	0.91304564	0.05110276	0.3522073	-0.7769148	-0.1003049	1.02622286
:tion only	-0.893525	-0.9837455	0.56383957	0.16420232	-0.3778578	-0.0604256	-0.5595294	1.27059323
EC:3.1.3.18	0.38575153	-0.4268719	-1.8720045	-0.8087315	0.06217647	-0.8367662	-0.0192804	0.20668455
:tion only	-0.4759353	0.17162606	2.52088209	-1.0831324	-0.4162455	0.22125103	-0.4571204	-0.6247855
EC:3.5.2.10	-0.526273	-0.8612687	2.3674021	-0.2416952	-0.6856782	0.38695542	0.31621206	-0.2133384
:tion only	0.13499476	-0.8091157	0.28035059	-0.4614201	-0.0868113	-0.4212534	-0.0714128	0.07772026
:tion only	0.44101399	-0.7993962	1.82723517	-0.5666752	-0.0122885	-0.2017523	1.21863065	1.21119121
:tion only	-0.8874852	-0.9061394	-1.4914774	-0.3005471	-0.8058195	-0.4196758	0.97201182	0.7218182
:tion only	-0.6100535	0.20262917	2.76877101	0.3430927	-1.2068154	-0.9556777	2.35926511	1.93509326
:tion only	-0.1771539	-0.1864587	3.1081409	0.60615195	0.19383537	1.21405181	2.11105336	1.44609114
:tion only	0.94197125	-0.0865039	1.41526318	0.90194676	0.84503465	0.07690922	2.44963161	1.64580495
:tion only	-0.577632	-0.6077544	-0.3071176	-1.9790476	-0.3155353	-0.3709937	2.16724248	-0.1321242
:tion only	-0.6274358	-1.080522	-1.2554112	-0.6058501	-0.2544179	-0.2581353	0.41384272	0.54086692
:tion only	-1.0056307	-1.2085966	-2.4723585	-0.813042	-0.7606875	-1.3578892	0.28051777	0.06558584
:tion only	-0.5744922	-0.5616853	-2.0364534	-0.8984345	-0.2696146	-0.5160345	-0.6619465	-0.145246
:tion only	0.2643724	0.40647847	1.70478368	-0.0192025	0.71959325	1.31730246	1.39010063	0.96494071
:tion only	-0.5234686	0.06685331	-0.919369	-1.5372997	0.19058912	0.16440563	0.8960101	0.33402085
:tion only	0.27043919	-0.2730666	4.16204896	0.41997824	0.4044819	0.10849337	0.59684652	0.5526535

Supplemental Table 2 Tab 1

:tion only		0.34622817	-0.4137505	0.51624096	-0.4577426	0.07217617	-0.5966368	0.68575777	0.33653273
:tion only		-1.0250446	-1.5935982	3.55639235	-1.8411254	-1.0865621	-0.344291	-0.435634	-1.2034751
:tion only		-1.521165	-2.2448028	2.64606983	-2.3094696	-1.3823292	-0.8149909	-1.7311388	-1.5650707
:tion only		0.38305996	-0.3496127	2.08405765	-0.469674	0.525952	-0.0123173	1.68196511	0.67780906
:tion only		0.01190443	-0.5857759	1.23163874	-0.651316	-0.2747509	-0.9354755	0.11709328	-0.230479
:tion only		-0.1855592	-0.1916818	1.79179403	-0.7347189	-0.2845276	-0.0744122	0.51038269	0.55762486
:tion only		-0.3137887	-0.1346005	5.72369176	-0.5217711	-0.1160271	-0.1443261	0.8425856	-0.237339
:tion only		-0.2783176	1.16561984	-2.9397925	-0.5199521	-0.0512427	-1.3285636	-0.3299073	-0.9176772
:tion only		-1.1694239	-0.3597088	-3.7548073	-2.1793787	-0.482324	-1.1105182	-0.5239981	-1.2494018
:tion only		0.13146441	1.21105862	2.02013461	0.29439178	-0.020557	0.62925262	0.81458778	0.86598745
:tion only		-0.5329442	-0.3981994	-1.6419117	-0.3126079	-0.2349077	-0.9734171	-0.5744408	-0.0257224
:tion only		-0.0431996	-0.6360136	-0.2062425	-0.2782145	-0.055935	-0.8292015	0.10560491	-0.037982
icrobial metabolism in diver		-0.7698381	-0.8709898	0.12395626	-0.5929951	-0.389866	0.05577534	0.56724216	0.46072348
:tion only		-0.2019419	-0.1529096	4.15360928	-0.4794171	-0.3865176	0.11863182	0.03118284	0.54767434
:tion only		-0.3925268	-0.669582	-1.0558081	-0.5580082	-0.0632391	-0.7889979	-0.4331099	0.47186457
EC:1.3.1.-	map00061 Fa	-1.2881156	-0.7420122	-0.5620613	-0.500578	-0.7659282	-1.1581466	0.35271402	-0.5145584
:tion only		-0.7533249	-0.582116	0.04916843	-0.4097166	-0.5013869	-0.4701139	-0.04186	0.89909741
:tion only		-0.1797727	-0.3743768	-0.5288171	-0.2392375	-0.0187498	-0.2017275	0.65437122	0.19978391
:tion only		-1.0102855	-0.0916604	-0.343353	-0.956546	-0.1382256	0.0627386	1.89700594	-0.0136554
:tion only		-1.0056198	-0.1261961	-0.9198428	-0.5882584	-0.5235543	-0.1651775	2.59446215	-0.2463052
:tion only		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
:tion only		-0.5409318	-0.9753996	0.25442569	-0.5275426	-0.1334848	-0.5800243	0.28998567	-0.1986266
:tion only		-0.8551531	-0.7367457	-1.6424343	-1.1713194	-0.4763247	-0.3358497	-0.3424429	-1.1922728
:tion only		-1.0102855	-0.0916604	-0.343353	-0.956546	-0.1382256	0.0627386	1.89700594	-0.0136554
:tion only		-1.0056198	-0.1261961	-0.9198428	-0.5882584	-0.5235543	-0.1651775	2.59446215	-0.2463052
:tion only		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
:tion only		0.24500269	-0.2996143	-0.2127622	-0.8183327	0.17856602	0.00122925	1.26896608	0.7364736
		-0.2640257	-0.8664579	-0.1396513	0.12744151	-0.0094828	0.2557635	-0.2943168	-0.0839043
		1.22283341	-0.7711323	4.03581036	1.01528223	0.3094957	-0.5589555	1.00799035	-1.38665

Supplemental Table 2 Tab 1

0.63785911	-0.1411761	-2.0179323	-0.2417241	0.64145038	0.39789183	1.65302773	0.87382846
0.29691492	-0.3622756	-1.2337636	-0.1802683	0.04082936	-0.1042414	1.01349107	0.24457366
-0.0921541	-0.2730461	-1.1055214	0.05376642	0.3113656	0.16982208	0.64966484	0.27022793
-0.6465283	-0.5428826	-2.0409812	-0.4261314	-0.1388549	-0.2716438	0.12764653	0.22801154
-0.3405411	-0.2080174	0.03294026	0.04970663	-0.2805175	-0.1582269	-0.0387953	0.21708407
-1.0728482	-0.8823399	-0.7046151	-0.8368553	-0.8087923	-0.6719387	-0.276018	0.09989652
0.51095157	-0.6011727	-2.4915337	-0.8413678	-0.0559153	-2.1075051	1.51363912	-0.1579345
1.01472385	-0.5315505	1.96173584	-0.5719464	0.11012012	-1.4223099	1.08871826	0.6363887
-0.5406705	-0.7721994	-2.7990498	-1.0255538	-0.3796887	-0.5794548	-1.0668369	-0.2388088
-1.0011025	-1.371383	1.82120476	-1.1059803	-0.6548408	-1.0545555	-1.2610849	-0.1184645
-0.3937994	-1.0454368	-2.9929586	-1.1893103	-0.3172543	-0.7718978	-0.3635108	-0.108545
-0.2660897	-0.2021874	0.52206649	0.96469049	-0.0590474	7.37583527	1.67336874	0.60102751
-0.6036036	-0.7706077	0.55765365	-0.7604822	-0.317373	-0.2943104	0.18601418	0.97291749
-0.2705802	-0.5697098	0.09238699	0.24373682	-0.0217437	0.33061318	-0.1450294	0.6862157
0.07996649	-0.3865493	0.37521464	-0.1115141	-0.0272803	0.0013319	-0.0648419	0.42283444
-0.3526208	-0.7330044	2.67994508	-0.4975563	-0.3685175	0.57825185	0.23169745	0.47434934
-0.4614929	-0.3328584	-0.3868065	-0.0802911	-0.2012167	-0.8632745	-0.2867706	0.55942112
-0.6594389	-0.2775477	-1.7546738	-0.1503329	-0.5493735	-0.3645956	-0.6953797	-0.1878025
0.30827868	-0.6129462	-1.7060183	-0.3325168	0.06951363	-1.1269505	-0.0602112	0.05569683
0.54725269	0.69517068	-1.2475196	-0.0171083	0.52294936	0.79636769	1.31965868	1.07970133
0.33751993	-0.4940623	-3.169623	-0.9872355	-0.0549822	-1.7934887	-0.2988868	-0.1239419
0.31172368	-0.2016698	0.69796079	-0.2566942	0.13717424	-0.3790634	0.32855426	0.67343028
1.40675967	-0.1905367	1.46446809	0.64581267	0.97141522	-0.2008704	2.2908475	1.64944856
0.12988228	-0.2713332	2.6882678	0.56662498	0.03967973	0.7601102	-0.2813014	-0.5841497
0.91039847	0.26383149	0.15222271	0.27304858	0.55479304	-0.8513826	0.50108556	0.59055782
-0.3530211	-0.4478245	-0.2136006	-0.2850722	-0.0365592	0.55965163	0.00305036	0.5009128
-0.6300872	0.45057997	-0.5927447	0.76348013	-0.0531286	-0.1426866	-0.0771696	2.01822169
0.01337165	-0.0660539	-2.0792444	-0.508837	-0.1555181	-0.4308191	0.30376079	0.32306541
-0.4505638	-0.4402911	-0.1158291	-0.3884486	-0.2624265	-1.2031547	0.18425341	0.75485831

Supplemental Table 2 Tab 1

0.57697961	0.03831076	-0.1800377	0.45048172	0.42313893	-0.8370891	0.44582231	0.03477744
0.24796732	-0.2019985	-0.4986855	-0.0738097	0.13616822	-1.0563609	-0.4368785	-0.7676153
-1.2417931	0.72973655	4.99737738	1.21759941	-0.7904743	-0.142824	-2.0472873	-0.3051476
0.01680757	-0.7590206	2.19404835	-0.1592235	-0.1239863	-0.2357955	0.42622566	0.16061706
-0.2858598	-0.3811076	0.15663579	0.24689351	-0.0174615	0.04982107	0.16252011	0.74574682
-0.7850406	-0.6369151	0.6856806	-0.2230791	-0.3476021	-0.2225124	-0.4944748	0.60819352
-0.7196667	-0.0891561	-1.5576077	-0.3665456	-0.4313102	0.59136631	-0.3355322	0.93615289
-0.2141159	-0.1623422	-3.5272897	-0.898012	0.06156976	-0.2830036	-0.0727898	0.93270851
0.25224303	0.46684939	-0.9187147	-0.2695661	0.6301268	0.54379887	-0.3169236	0.11547759
0.87788952	0.91822016	-1.7400341	-0.0009122	0.97516454	1.12304724	0.78481136	0.51649461
-0.2986153	0.16171979	-0.9738107	0.09796768	-0.0523946	-0.0646651	0.03532129	0.60300695
0.34170951	0.95082169	-1.6102217	-0.498646	0.76283104	0.97625467	0.73090316	0.88697029
-0.4839696	0.50008537	-0.5901554	0.15293195	-0.0484883	0.1647338	0.30555295	1.08883825
-0.9579874	0.21526546	-1.3656887	-0.0794352	-0.389383	0.02697716	0.22716398	1.20822393
-0.3884774	0.07709957	-0.5926734	-0.7767033	-0.2424025	0.14878127	0.23930815	1.00729794
0.10733404	-0.4024158	-0.5971429	-0.1347693	0.23051902	-0.8487968	0.75455836	1.574618
0.06819369	0.13616002	-0.9031914	0.18361542	-0.0114937	-0.249543	-0.6742504	-0.1862482
0.3009414	0.0366132	-2.0340295	0.03147501	0.2332475	-0.6378583	-0.3914125	0.61837428
-0.39404	-0.7775309	1.85246996	-0.4905074	-0.7247159	-0.2290189	-0.0098546	0.52017867
-0.7798124	-0.6938612	-0.8800454	-0.1805431	-0.7220278	0.41493102	-0.1962216	-0.2855808
-0.5746561	-0.7772701	-0.4820133	-0.40288	-0.5505922	-0.8911118	-0.4639646	0.56358852
-0.8789502	-1.1655505	-1.4251625	-0.3109024	-0.4347045	-0.3128779	-0.5896137	0.10767436
0.16049171	-0.0494298	1.69896608	-0.0326847	0.24210516	0.18563456	0.85103965	0.60932057
0.1676048	-0.9554753	-1.5177333	-1.2010251	0.20339657	-1.6757342	1.16006316	-0.0777175
1.70676954	-0.0866313	0.27091022	-0.4640514	0.57111792	0.32438594	2.23807755	0.23640972
-0.7675656	-0.8292073	-1.5252165	-0.5760988	-0.3864193	-0.5977965	-0.3867272	0.36723808
-1.5309383	-0.6978916	-2.3247394	-0.9983129	-1.1519852	-0.8910696	-1.74996	-0.892557
0.02556115	-0.3292462	-1.0702037	-0.0046319	0.10717558	0.43660535	0.58365671	0.22061677
0.13788621	0.2310343	-0.6932833	0.22569655	0.41562555	0.47487196	0.77035589	1.00784159

Supplemental Table 2 Tab 1

0.76381314	-0.1674457	-0.2298713	-0.3342288	0.5850725	-0.9256841	0.49053257	1.33059587
0.02556598	-0.1935676	1.53390004	-0.7592131	-0.2272473	1.19111835	-0.2084093	-0.2515304
0.3573519	-0.3497357	-1.2764571	-0.5764906	0.20334833	-0.4055627	0.99010204	0.61970001
-0.6902813	-0.380179	1.34917237	0.1251761	-0.2413432	-0.1270088	0.30342257	0.58850549
-0.5128433	-0.5855421	-0.5690673	-0.5213774	0.02062881	0.42868013	-0.185723	0.0323798
-0.4754751	-0.6453216	-3.1162916	-0.8712654	0.01344258	-1.267896	-1.0125203	0.0404532
-0.2082794	-0.7851816	-2.7881299	-1.1769931	-0.2624882	-1.3885102	-0.98039	-0.1552428
-0.7988733	-0.4893332	-0.9526376	0.42401777	-0.2118102	-0.2763154	-0.8019923	0.51351876
-0.8902216	-0.7725612	-0.6242681	0.34911063	-0.2550494	0.22499304	-0.5646855	0.63040219
-0.0012224	-0.3306019	-0.5322832	0.06863422	0.14212522	0.30730689	0.21481259	0.77651485
-0.0864624	-0.7791983	0.47746772	-0.7777374	-0.1891775	-0.0565994	0.37214685	0.7496626
-0.4955542	-0.6072705	-0.1488064	-0.3118182	-0.4792462	-0.9065498	-0.2359917	0.66770142
0.17441191	0.06347487	-0.9339945	-0.5777378	-0.2560316	-0.9401856	-0.4416449	0.03257735
-0.0564437	-0.8710925	0.62806311	-0.1563655	-0.1456755	0.01044957	0.69571383	0.32618038
-0.4168254	-0.7072442	-1.3374477	-0.736279	-0.3941057	-1.324594	-0.5992296	0.41530131
0.27358624	-1.030087	-2.3541114	-1.1962378	-0.3019123	-1.4703685	-0.1301809	-0.2657317
-0.7168699	-0.6885777	-4.2824312	-1.3885034	-0.5123961	-1.9967474	-1.2642581	-0.0309462
0.86252237	0.09390771	3.50278468	0.09180312	0.75706002	1.2615661	0.87773016	1.60768797
0.2578799	-0.7456088	1.35177624	-0.1107663	-0.1155985	-0.723061	1.15739933	0.97743609
-0.4838434	-0.5138414	-0.0999674	0.07641968	-0.0456562	-0.652974	-0.3979386	0.57198636
0.33269148	-0.3364042	-4.0154558	-1.8771749	0.1844415	-2.1830661	0.54936092	0.42130015
-0.4208726	-0.6694003	1.01943877	-0.5508323	0.02722398	-0.0254978	-0.4428852	0.01926358
-1.1135932	-1.1253521	-2.1697249	-0.6891441	-0.6215326	-0.8777184	-1.1106214	0.12786674
-0.4120748	-0.5385272	-0.0477167	0.01526279	0.12751974	0.65327745	0.39452028	0.65327745
0.79594312	0.2794685	-1.4915984	0.89579918	0.59257568	-0.4363693	1.44078707	0.89868197
-0.4986339	0.1413738	-0.1565365	-0.6753979	-0.3673544	1.5452124	-0.3063679	0.60686106
-0.9096321	-0.8205059	-1.3664305	0.58490748	0.12222248	-0.1605472	-0.0312431	0.60262525
0.38840684	-0.0377966	-2.3836593	-0.4188107	0.14692758	-1.0455186	0.62002315	0.44355527
-0.2251382	-0.5689812	-1.6375847	-0.9453238	-0.0865396	-0.182888	-0.2010281	0.04869073

Supplemental Table 2 Tab 1

		-0.7515373	-1.2942641	-1.8747837	-0.4212287	-0.3597183	-1.6248882	-0.4869377	-0.2217498
		-0.3365413	-0.8051023	-1.6417646	-0.7843506	-0.6015438	-1.6486499	-0.5682319	0.46547197
		-0.4116949	-0.079504	0.52574276	0.60988038	-0.0437758	0.04962204	0.04297738	0.94993807
		0.26302071	-0.8853297	-1.8688312	-0.9891431	-0.1331149	-1.5406849	-0.4424283	0.04101406
		-0.5191994	-0.2363885	-5.9423382	-1.1488551	0.0843213	-2.2152493	-0.9740274	-0.3345382
EC:4.1.1.44		-0.9352121	-0.5968286	-6.7374296	-1.1913041	0.20213014	-2.5758739	-1.5457005	-0.1895199
		-0.3495832	-0.4641416	0.05564619	-0.2621771	-0.0006154	0.56557786	-0.2303555	0.16013236
		0.01326792	-0.3016534	-0.9632003	-0.8211252	0.07314484	-0.2501315	0.58248844	1.10145379
		0.41235789	-0.9491524	1.02143374	-0.6187702	-0.1779187	-0.3548261	0.64930286	0.24265941
		-0.8741936	-0.8724186	0.65858391	-0.1713022	-0.5227456	0.04569386	-0.0212731	0.55940104
		-0.4827773	-0.8248527	-1.8957404	-0.5137488	-0.5290967	-1.89136	-0.5429705	0.90122285
		-0.6818486	-1.0217794	-0.1544778	-0.0460613	-0.4264287	-0.066296	-0.1717645	0.56021211
		-0.0443746	0.00742006	-1.2813254	0.03281231	0.50196524	-0.8449525	0.2136274	-0.0802039
		-0.195119	-0.5529276	-2.0185502	-0.4420246	-0.2624968	-0.1896958	-0.7116132	0.06976544
		-0.3851835	-0.475649	-0.405506	-0.3936795	-0.3011209	0.26994662	-0.0290686	0.93092168
		-0.1525733	-0.4680871	-0.4636704	0.08895562	-0.127793	-0.9814489	-0.4248973	1.02139553
		-0.1168567	0.34555388	0.900209	0.76667785	-0.2506424	-0.5271691	0.26790809	0.74609721
		0.0369367	-0.1945858	2.81312168	-0.1657499	0.29002636	0.27360749	-0.7115238	1.18416355
		0.23052591	-0.8164889	-0.5161807	0.17497321	-0.1337992	-0.3387161	0.88726008	0.85499914
		-0.1771088	-0.6717105	-3.9061196	-0.2782301	0.10961195	0.13168037	0.07756948	0.17551265
		-0.3935067	-0.5051629	-1.331624	-0.9920445	-0.0127923	-0.2145577	-0.1631092	0.43856834
EC:1.14.99.-	beta-Caroten	0.0518021	-0.7235612	1.17344406	0.21748707	0.29345495	0.16980904	1.21045325	1.52866634
		-1.148949	-0.9586123	0.79095013	-0.6825449	-0.420683	-0.3526323	-0.8707222	-0.2957665
		-0.4930327	-0.438119	-3.2092397	-0.7123292	-0.164201	-0.199394	0.29642211	1.60537074
		-0.2221711	-0.3898326	-0.0119878	-0.2626771	0.01895995	0.4769464	0.15600607	0.41206827
		-0.2740789	-0.4900189	-1.9726591	-0.6357561	-0.0866698	-0.2853697	0.12042006	0.88715334
		0.21024747	-0.6956901	-1.6938426	-0.4959524	0.10817673	-1.6472403	0.24158879	0.17659915
		-1.1417644	-0.8096271	-2.0936867	-1.2933084	-0.6021319	-0.077712	-0.3927482	0.36603285
		-0.6517798	-0.8044482	-0.9167965	-0.5696644	-0.5180577	-0.9755231	-0.6768116	0.16240555

Supplemental Table 2 Tab 1

ırotenoid biosynthesis		-0.9776545	-1.2874363	-2.2187215	-1.2549356	-0.6559855	-1.1841622	-0.8764575	-0.6250536
		0.15615398	-0.4681013	-0.4681404	-0.2637184	0.22162115	0.66046567	0.32368472	0.43386863
		-0.954703	-1.0393712	-1.3216748	-0.5726459	-0.7896592	-0.2664495	-0.2874208	0.39792328
		-1.1505764	-1.0341894	-2.4190565	-1.1421601	-0.4902828	-0.7284264	-0.6428457	0.2398732
EC:2.3.1.15	Triacylglycerc	-0.8884466	-0.8899082	-1.5913381	-0.3182876	-0.6903291	-0.7026031	-0.8777611	0.02035498
		-0.0109832	-0.6206563	1.6762066	-0.8056134	-0.2235343	-0.3427345	1.03882176	1.31943777
		-0.3808512	-0.7037507	0.67978907	-0.2498871	-0.3983473	-0.448443	0.04574824	0.79225498
		0.10146419	-0.6716589	-1.0322487	-0.6956946	-0.3267812	-0.7128816	1.93185891	0.63565906
		0.8076933	0.41570361	-1.5849625	0.15058102	0.72876945	0.32948891	2.22840801	1.97949677
		-0.0757212	-0.0457947	-1.0277549	1.50097506	0.34828688	0.3103864	0.34158242	1.03723261
		-0.1126925	-0.925913	0.07369028	0.09356241	-0.1150884	0.14533619	0.44240399	0.88250108
		0.17539603	-0.843423	-2.7933088	-1.3507836	-0.1659577	-1.301673	0.00638046	0.02300786
		0.22283288	-0.7818401	0.06472936	0.35592697	-0.1854631	-0.1544572	0.40645957	0.38108156
		1.42114079	-0.906078	-1.3219281	-0.7770736	0.48948504	0.04418229	1.70155218	0.69001096
		-0.7619959	-0.2931233	-3.0765584	-0.8631799	-0.5283755	-1.3390897	0.12767669	0.67939106
		-0.3297719	-0.2990142	-0.1227458	-0.2455836	-0.1904062	0.3585242	0.08263988	-0.0600679
		-0.1210857	-0.2897704	-1.1696848	-0.1526846	-0.0048404	0.26198374	0.59679197	0.6204396
		-0.0750984	-1.0295135	-1.7222054	-0.8531327	-0.5531942	-1.3276533	-0.1353857	0.38267835
		-0.3819591	-0.6021076	-1.7281369	-0.3996675	-0.4695348	-0.5011858	0.13005883	0.57690887
		0.42242281	-0.3009663	-0.0779557	0.22172976	0.06743515	-0.0693779	0.39695419	0.9783012
		-0.2932485	-1.1570524	-1.8727509	-0.6080816	-0.155362	-0.5419718	-0.1676099	0.47171965
		-0.0663284	-0.5172928	-1.7315877	-0.5065422	-0.5226163	0.01494386	-0.4483368	-0.0764105
		-0.5297166	0.72021768	-1.0753561	-0.580382	-0.7924412	0.16951522	-1.8732539	-0.9236595
		0.48957827	-0.3496245	-0.5507356	-1.0045873	-0.5808178	0.25929242	0.4307667	0.07038933
		1.26317435	0.72596173	-0.4439517	0.0351416	0.66443877	-1.1483689	1.07757255	-0.5655514
		1.72318324	0.32843646	-3.5852673	0.67956981	1.45746283	-0.633788	1.10910894	0.94648981
		1.79695399	0.3284226	#NUM!	-0.1421818	1.03060396	-0.9557188	1.16009196	0.2364142
		0.07926983	-0.2931461	-1.0321782	1.07440573	-0.265356	-0.2777413	1.74501754	2.39790059
		-0.2399053	0.01759952	-3.587797	-1.3286552	-0.3836565	-0.7082769	-1.0178355	-0.5531062

Supplemental Table 2 Tab 1

osynthesis of beta-Caroten	0.14368185	-0.8445659	-0.661563	0.00116591	0.05655538	-0.0827151	0.47078449	0.46850535
	0.16255849	-0.5602614	-0.7546731	0.25514192	0.03410904	-0.1509136	0.73509009	1.57907898
	-0.2127496	-0.3287426	-1.0036677	0.03010588	-0.1311351	0.52588427	0.25460752	1.17383113
	-0.0310308	-0.672329	-1.44203	-0.9169066	-0.2971841	-0.9691064	-0.2355322	0.07778113
	0.0398049	-0.4672696	-0.4337061	0.52441224	-0.0563129	-0.2386782	-0.7540834	0.35010769
	0.20897991	-0.3628794	-1.044167	0.44455363	0.18958249	-0.532531	0.16005762	0.90623315
	-0.1625552	-0.298129	0.95584394	0.20579857	-0.2943433	0.89774726	0.60221038	1.49123374
	0.61880989	0.57634235	2.53072881	0.92821829	0.91450131	0.95113081	2.21895613	2.04371919
	-0.5428205	-0.4260352	0.98193211	0.11492675	-0.0921357	0.39274421	-0.4600211	0.12484083
	-0.6281712	-0.9174533	0.23083446	-0.259104	-0.5872897	-0.6688497	-0.6995111	0.71343179
	0.11738477	1.32153858	-0.6122309	2.36755112	0.40543587	0.1492408	0.46186752	2.60282259
	-0.8345734	-1.3220043	1.66073414	-0.2323908	-0.4924972	-0.1057958	0.11275609	0.73089578
	-0.4647049	-0.4023728	1.38581174	0.49738597	-0.3674609	-0.0569909	-0.5094709	0.19474302
	0.71900973	-0.6714802	-1.0321549	-0.9082033	0.22640034	-0.0299467	2.10276343	0.81285745
	1.46033842	0.78775951	0.71775904	0.98476648	1.16083027	0.52967521	2.09442889	2.74511139
	-0.1402226	-0.7181657	0.04940969	-0.6340204	-0.3789893	-0.8210146	-0.7973342	-0.550217
	-0.4855978	-0.707919	-0.2887301	-0.6549272	-0.3932392	-0.5758335	-0.5643449	-0.0049844
	-0.5376157	-0.3365502	-0.4787326	0.82195106	-0.4763151	0.19840245	-0.6378905	0.513098
	-0.5741776	-0.4834524	-0.0477122	-0.3847825	-0.629585	0.54966812	-0.1955057	0.48743644
	-0.2570133	-0.4380624	0.14648384	-0.0957733	-0.001751	-0.594355	0.64480316	1.68931056
	0.55713293	-0.7222616	-2.3646783	-0.399242	0.03986375	-0.8137019	0.93949426	1.26210737
	-0.6307835	-0.5098923	-1.0119799	-0.2922094	-0.4427429	-0.5703307	-0.3894957	0.15620302
	-0.5772768	-0.3556332	0.44438423	0.26667975	-0.3949178	-1.7460155	-0.3330238	-0.3894949
	-0.5234106	-0.428477	-3.757671	-0.6773642	-0.2880532	-0.561323	-0.769188	-0.1761453
	0.00784976	-0.298168	-3.7427953	-0.70934	-0.1230942	-1.0395916	-0.8879799	-0.3183031
	0.64443635	0.04782233	-2.4731022	-0.5839748	0.39578499	-0.5800944	-0.1570464	-0.1138024
	-0.1979332	-1.0676525	-2.8217735	-1.5372268	-0.3930463	-1.538614	-0.2659365	-0.2250024
	0.0465455	-0.6122186	-1.2894455	-0.4701608	-0.1600069	-1.1248616	0.30052636	1.2058187
	-0.2239788	-0.9412552	-1.5847792	-1.3019409	-0.326072	-0.7809554	-0.0712759	0.44444851

Supplemental Table 2 Tab 1

0.90092926	0.16021729	-1.2900501	0.32000873	0.45706816	1.12832275	1.06737688	0.79517267
-0.6819305	-0.3821096	0.51835887	0.04125422	-0.0984063	-0.0101621	-0.0782564	0.57909581
-0.3822286	-0.9046074	-2.301913	-0.7454272	-0.2371698	-0.9556911	0.30195458	0.62398913
-0.6624846	-1.2891124	1.02293028	-0.1135647	-0.8804117	0.27033435	0.51815648	0.41326224
0.19448609	-0.6518916	-1.8185259	-0.4398598	0.17639245	-1.0435534	-0.0516476	0.8534276
-0.3910895	-0.4485567	-1.7938143	-0.0850245	-0.1478645	-1.257898	-0.2957569	0.3268452
0.01519843	-0.3335336	1.70222843	0.15135385	0.00099827	-0.4548951	0.94514503	1.05899355
-1.0169158	-1.1178479	-1.2829201	-0.0526586	-0.3971128	-0.873719	-0.6955823	0.62515144
2.65692067	1.20311987	1.33279278	1.6843544	1.7936913	0.85168903	3.1601363	2.81800993
-0.0373655	-0.2596626	-0.882435	-0.0411208	-0.1607598	0.12740853	-0.3226793	1.03412522
0.77289946	0.46885021	-1.1697033	0.06971827	0.65242597	0.94241117	1.34449022	1.78186658
-0.3018729	-0.7593888	0.28326132	-0.3936963	-0.1918899	-0.5881645	-0.1216946	0.45487295
-0.2208396	-4.293762	-2.4341967	-0.0251653	-0.0716525	-1.7197924	0.25530716	0.75611501
-0.5991916	-1.1763005	-1.5674545	-1.0652144	-0.3838119	-1.2014713	-0.2624968	-0.4711463
-0.2607738	-0.2355351	-0.2684907	-0.4513942	0.04592362	0.17599024	0.45341782	0.67589875
1.29659666	-0.3501409	-1.170155	1.26900071	1.05637125	-0.1485835	2.57488632	2.64927279
-0.2249811	0.10357175	1.55705341	1.32030268	0.15152454	1.19656313	1.04917036	1.75987678
-0.1618775	-0.3635113	-1.1974586	-0.3222222	-0.1982681	0.37168272	-0.3232372	0.58401341
-1.1306029	-1.0798066	-2.3096987	-1.0621747	-0.8431824	-0.1232461	-1.3398994	-0.4518977
0.5598954	-0.2045251	-2.4497107	-0.7807723	0.61293422	-0.5196733	0.80954955	0.36345473
-0.0027722	0.02868611	0.28970028	0.48880106	0.17550055	0.55989145	1.17983269	1.06701736
0.48955648	-0.3089524	-0.0700869	0.49937077	0.77281079	-0.4411488	1.01568513	1.20469271
0.14486391	-0.8236073	-1.2185812	-0.9786547	0.0076455	-0.0552355	0.04903459	-0.2574039
0.30935743	-0.1839704	-0.0639234	-0.0592818	0.24723336	0.13539949	0.7473408	0.71770774
0.31767996	-0.7805709	1.57247549	0.31143506	0.25817953	-0.3024699	0.39363526	0.9819871
-0.4796824	-0.4498922	0.58745921	0.10080737	-0.1935922	-0.7823821	-0.2985565	0.33806844
-0.8027415	-3.2571988	-1.169547	-1.97832	-0.943326	-0.5405378	0.21256535	-0.2573997
-1.0865054	-1.2566635	-1.9473388	-0.8087723	-1.2064386	-0.218739	-0.0098505	-0.0648053
-0.2415752	-0.4425366	-0.6574932	-0.0267548	-0.2594735	0.03834217	-0.0217404	0.50829703

Supplemental Table 2 Tab 1

	0.07050955	-0.4436138	-1.836034	-0.583523	0.09555441	-0.2386404	0.81154002	1.24624391
	-0.0839386	-1.3154607	-1.0586435	-0.6528706	-0.5211946	-2.1621592	-0.7548665	0.14311995
	0.69021603	0.36678898	-0.4965733	0.1427386	0.54750495	-1.1652337	1.81405978	0.75364359
	-0.6042743	-0.871025	-0.8019549	-0.0259952	-0.2829247	-0.8875015	0.19576292	0.28023847
	-0.0672984	-0.9458614	-0.0121635	-0.0644218	0.11103885	-0.4861802	1.14143999	0.8750427
	-0.0493018	-0.2054074	0.11542374	-0.2225869	0.0565458	0.62209845	0.53720149	0.68177309
	0.34932167	-1.1785997	2.33279453	-0.3585349	-0.0118514	-0.7798915	0.96315841	0.66012933
	-5.5160631	-6.0968384	-3.7836212	-5.6872643	-2.0393862	-3.9647328	-2.9079078	-4.5236783
	-0.1608139	-0.7471106	-2.8562428	-0.9927274	-0.2269469	-1.8873268	-0.657454	-0.0921783
	-0.1469494	0.4221122	-1.5322801	0.6262087	-0.0617062	-0.3182898	-1.1948885	0.28885983
	-0.7740959	-1.1256374	-0.9066709	-0.3006004	-0.7169216	-0.8716526	-0.2358677	0.00561452
	-2.1622529	-1.9615669	-3.0442967	-2.2680286	-2.080905	-1.2452279	0.08526165	-1.938989
	-0.2524805	-0.7971426	0.93381541	-0.3266239	-0.3642393	-0.2291193	0.019875	0.2519845
	0.90656711	0.03293247	-2.1172356	0.59737788	0.5590583	-0.6882439	0.61029971	0.96006055
	-0.452452	-0.4179127	0.02059405	-0.0841543	0.03793022	0.5070193	-0.2953138	0.06763057
EC:4.99.1.3	0.45683351	0.06661315	-0.8350665	0.4597331	0.00538306	-0.4216515	0.21707947	1.5261565
	-0.5477291	-0.7220013	-0.488988	-0.5269615	-0.5284234	-1.1687424	-0.1143478	0.13315385
	-0.413899	-0.6095487	-0.9634084	-0.5322534	-0.1751418	-0.901218	0.45102036	0.28847881
	-0.4686577	-0.2949733	1.08775911	0.08363788	-0.2125624	0.66318802	-0.5963366	0.30484849
	-0.0990753	-0.9346982	0.24531392	-0.4932455	-0.660506	-0.7128819	0.25316923	-0.1772685
	0.09924066	0.16023352	1.4625404	-0.0151836	-0.0250682	0.34292674	0.62702694	1.05622841
	-0.6567086	-0.9193708	1.14783473	-0.2660213	-0.5208704	-0.3275364	-0.5791354	-0.208113
	0.41524672	-0.2455982	-1.4217298	-0.3467318	0.17289149	-0.3026409	0.6743987	1.14854663
	-0.0737755	-0.8514581	0.74617041	-0.2271045	-0.5088313	-0.0015333	-0.1612395	0.27841089
	-0.1111393	-0.2471173	-0.4358283	0.23283417	-0.2606229	1.21586762	0.28446008	0.96713098
	0.35191624	-0.5747329	-2.0666365	-0.9261854	0.01935551	0.02747416	0.53446371	0.48641158
	-0.5913516	-0.7122603	-1.3738462	-0.5673817	-0.2963813	-1.1714447	-0.5467881	0.4872528
	-0.8730532	-0.7291639	-2.1520272	-0.2204713	-0.4823975	-0.5790476	-0.7747955	0.39303059
	-0.7524139	-0.8627089	-2.9937029	-0.7880741	-0.4810225	-1.4307359	-1.0016387	0.18372999

Supplemental Table 2 Tab 1

-0.2295376	-0.5673057	-2.8071497	-0.7027922	-0.3144948	-1.0906539	-0.2504117	0.23326159
-0.2681879	-0.7909848	-2.1877053	-0.9156231	-0.1624172	-1.3863654	-0.0269749	0.76792126
-0.3561973	-0.4517093	-4.0940383	-0.996046	0.39223431	-0.0796919	0.82680675	1.02369654
-0.6061639	-0.7046369	-1.5530423	-0.0178279	-0.3607823	-0.5240379	-0.3654633	0.20254066
-0.4571678	-0.2801165	-1.636575	0.18559711	-0.3221728	-0.2723611	-0.2319109	0.40080629
0.52179343	-0.5570869	-1.5722007	-0.7907223	0.2932381	-1.408821	1.07392999	0.80400237
0.25518811	-0.8514588	-2.2735713	-0.5375536	0.14518977	-1.8848573	0.18269674	0.11429667
1.60911021	0.02881425	0.86001367	0.41371843	0.93098708	1.08863434	2.69977846	1.85408264
2.09602037	0.17647734	0.67838063	0.02136587	0.90464226	0.89233815	2.79754218	1.81301488
0.58535295	0.01843043	-2.3543096	0.10539425	0.52475842	-0.7666872	0.72425765	0.4103439
-0.2398674	-0.6576912	-3.1556564	0.21443529	-0.3631435	-1.1344431	0.04511914	0.97068285
0.83118299	-0.2628065	-2.568364	0.78541343	0.93326319	-0.0192997	0.9003334	1.54482855
-0.6052115	-0.5850132	-1.0056946	-0.0252365	-0.2970818	-0.7388528	-0.6136501	0.38099207
-0.6752249	-0.9159998	-1.09772	-0.0866032	-0.4508459	-0.5541733	-1.1142016	0.19615628
0.02904243	-0.4776621	-2.2344717	-0.1029084	-0.0317183	-1.661741	-0.0844806	0.50663178
0.08988756	-0.7463605	-1.4607525	-0.6103115	0.04785482	-0.4034987	0.17081743	0.65579854
-0.2963755	0.25875765	0.25176535	0.59681161	-0.0633609	-0.762382	-0.7218845	1.42288117
0.16668503	-0.6238541	1.16582568	0.21466337	0.01456982	-1.301684	0.35110427	1.32187253
0.32248323	0.0567081	-2.1482037	-0.9362801	0.08847498	0.45800075	1.0220859	0.79841703
1.15706579	0.11948649	0.45162185	-0.03539	0.89509083	0.20184793	2.15375001	1.00932516
-0.2970759	-0.3140281	1.32218327	-0.001383	-0.4515052	0.17360643	1.08821322	1.71987309
-0.7537694	-0.7222627	1.11185376	-0.4615912	-0.7353697	-0.1271958	0.16556483	0.89102531
0.67532986	0.3284414	2.22262555	0.34321946	-0.1358259	0.74487079	2.7181216	-0.1580256
0.51097704	0.25434041	0.09345057	0.94733037	0.77904352	0.30731533	2.51374686	2.10518504
0.1179168	-0.6715745	0.00020477	0.10883011	-0.0689975	-0.3707847	0.92874521	0.60765058
-0.0789743	-0.0135265	5.15007547	0.5362517	0.09894422	-0.8597402	0.53710336	-0.2879833
1.78270877	1.49907893	11.0422064	2.34402775	-0.3570478	2.62997591	3.41700292	1.32836871
-0.2111287	-0.2979392	-0.1227238	-0.1826388	0.1067237	0.62594167	0.20261301	0.41073386
0.38209849	-0.2883863	-2.1082903	-0.059272	0.53292908	-0.9873749	0.43229748	0.14635789

Supplemental Table 2 Tab 1

	-0.3372647	-0.4449444	-0.0883486	-0.315002	-0.0804832	0.49564426	-0.1609271	0.23401394
	0.55989989	-0.5018389	0.53058257	0.02145148	0.70033793	0.50377106	1.9207902	1.47438981
	-0.3552615	-0.4941489	-0.2823512	-0.2959488	-0.002966	0.51734049	-0.1741868	0.07736487
	-0.0615873	-0.1841414	0.03066591	-0.0919176	0.19405322	0.65307916	0.22217865	0.54662776
	-0.3992627	-0.5210019	-0.353504	-0.3431983	-0.0620903	0.37446534	-0.2598434	0.08817561
	1.40140399	0.57637418	-0.1695107	0.19140155	0.96349537	0.13214497	2.99033454	1.27527411
	0.9544876	0.54416301	-1.3164847	0.15992137	1.01528281	0.10132508	0.98140869	1.13589265
	1.45307035	0.6909956	-1.3917857	0.42352103	0.8640347	0.19120542	1.39230551	1.17234207
	0.04659794	-0.6940857	0.19434709	-0.5905795	-0.247119	-0.9691402	0.40349401	0.8403279
	-0.8026653	-0.8939856	2.18617755	-0.6705155	-0.5808469	-0.7933915	0.05727571	0.48541817
	1.000477	0.84300543	-0.807021	-0.3264675	1.00409708	-0.7629608	1.44961378	0.71283448
	0.13595197	-0.0341675	2.35038372	0.38281824	-0.2931811	-0.3841685	0.61463927	1.11846605
	-0.2426626	-0.5875808	2.81578211	-0.2474723	-0.5649812	0.30728331	-0.609346	-0.3688142
	0.19733941	0.20285658	-1.5118227	-1.052685	-0.1968471	-0.5050059	0.22960308	0.05072913
	0.44994022	0.81376069	-0.8592845	-0.5141094	0.4786737	0.02976478	1.8815044	1.46121693
	-0.6668306	-0.6456072	-0.4432692	-0.6410807	-0.6804263	-0.8422295	0.16299484	-0.11142
	-0.8515677	-1.0137276	-0.0616512	-0.3619806	-0.2064848	-1.4363407	-0.7335287	-0.3717581
	-0.725395	-0.72827	-1.700304	-0.8716851	-0.5146662	-0.2638598	0.31207971	-0.0103513
	-0.1866416	-0.311837	-0.204084	-0.1554063	0.11048046	0.60098883	0.12545612	0.35075933
	-5.5235538	-6.094698	-3.7867205	-5.6851239	-2.0377026	-3.9625924	-2.9081612	-4.5250635
	-0.2275835	-0.2060145	-0.6078402	-0.6161513	-0.2273067	0.33838398	1.67460256	0.60359839
	-0.1875188	-0.3130524	-0.2071023	-0.1557084	0.10607793	0.59865392	0.12300895	0.34988623
	-0.1384159	-0.617006	-0.9951495	-0.8164974	-0.0135483	-1.3266052	-0.3495905	-0.2607436
	0.15814196	0.56287466	1.6188923	0.10309193	-0.0284258	1.84754296	0.15697949	-0.7643624
	-0.2436768	0.08333747	-0.5847569	-0.2506711	0.0107863	0.19398067	1.87278619	0.60766973
EC:2.7.13.3	-0.4863784	-0.6565348	-1.4821583	-0.7753538	-0.2279117	-0.6816745	-0.349708	0.43716239
chanisms	-0.5776542	-0.1988047	-3.255157	-0.1150218	-0.1298359	-2.3097193	-1.5370368	-0.6341727
chanisms	-0.3464504	-0.9698947	-1.6239966	-1.1454304	-0.2114423	-0.705194	-0.2778868	-0.0647822
chanisms	-0.2285789	-0.3649647	0.69088933	-0.0433718	-0.0620933	-0.1304048	-0.0035468	0.30199667

Supplemental Table 2 Tab 1

:hanisms	-0.6312199	-0.7089876	-0.9741101	-0.3031894	-0.2198344	-0.5263831	-0.2130838	0.19843532
:hanisms	-0.0370851	-0.5552873	-1.2993448	-0.3186603	-0.0208753	-0.0961997	0.28072707	0.84097483
:hanisms	0.07397541	-0.6398654	-1.2720748	-0.851074	-0.058472	-0.1392243	0.10580657	0.4091794
:hanisms	0.1407663	-0.9878528	1.76393109	0.18368699	-0.1792929	-0.532759	0.77305583	0.64413056
:hanisms	0.0030742	-0.5254628	-0.8271454	0.06670516	-0.0914534	-0.6252267	0.13724508	0.60004133
ell cycle - Caulobacter>map(	0.72809938	0.00349455	-0.5693033	-0.068733	0.44219507	0.50790087	1.30736249	1.03762343
EC:2.7.13.3	0.12743175	0.05417196	-3.2381265	-0.2394637	0.16343513	0.34377779	0.43939634	0.5799354
ell cycle - Caulobacter>map(	0.07379417	-0.1686498	-2.5474319	-0.726473	0.11900091	-0.3870646	0.4973994	0.67653606
:hanisms	-0.7713048	-0.8894022	0.57988101	-0.8989857	-0.6514251	-1.2671223	-1.2920522	-0.3729037
:hanisms	0.12756761	-0.4318755	-1.5922367	-1.2662338	0.0648816	-0.2000246	0.67344806	0.59589985
:hanisms	-0.2393457	-0.055442	1.59155925	-0.1097757	-0.0914296	1.0344913	0.13319292	1.03670684
:hanisms	0.37508327	-0.0263249	0.02016365	-0.0698897	0.16022675	-0.3734437	0.06453449	0.41172038
EC:4.6.1.1	-0.2959579	-0.5281494	-0.8921435	-0.235149	-0.1398296	-0.6215729	-0.0396528	0.40299042
ell cycle - Caulobacter>map(	-0.2141454	-0.6594346	-0.6094142	-0.5037449	-0.7070439	0.62926614	0.38830645	0.8274086
:hanisms	1.68034474	1.08187608	2.5637743	1.28667864	0.47503683	0.93628708	0.75048229	2.40844878
vo-component system	2.48491303	1.68661452	1.50216646	1.5920879	1.13902384	0.95305954	1.24252021	2.21407925
ell cycle - Caulobacter>map(	0.45917791	0.14559863	-0.3331335	0.18368769	0.18785839	0.57684723	1.23087848	1.50295988
:hanisms	-0.1708077	-0.6532996	-1.5008256	-1.7717519	-0.614135	-0.2411248	1.16019443	0.94227795
EC:2.7.13.3	-0.6905341	-0.1507745	-0.5153292	-0.368813	-0.701442	-0.7567123	0.74823983	0.07983234
ell cycle - Caulobacter>map(	-0.4401042	0.27436078	2.56939875	0.23310303	-0.4015338	0.54928979	0.71646418	1.22064284
:hanisms	1.08249817	0.14557248	0.41528052	0.30147634	0.91220969	-2.0261602	1.85993146	2.69394401
:hanisms	-0.2223407	-0.8030689	-0.7506299	-0.3276826	-0.4620772	-1.0739006	-0.3563133	0.96926255
:hanisms	-0.450582	-0.4138181	1.88792628	0.01741615	-0.4840238	-0.0572194	0.318324	1.00505463
:hanisms	-0.9324433	-1.1499734	-1.2311139	-0.9515721	-0.8254339	-0.7356679	-0.6427514	0.07942185
:hanisms	-0.020274	-0.4069912	-1.8606036	-0.4679201	0.30380863	-1.0859027	-0.2413278	0.73618239
:hanisms	-0.655553	-0.7399175	-1.5275349	-0.4944097	-0.2617221	-0.8319088	-0.6339232	0.39617429
:hanisms	-0.5306009	-0.5596634	0.41524227	-0.2280584	-0.2637934	-0.3291783	0.12417941	0.74474781
:hanisms	0.66297096	0.69241546	-1.400913	0.38536781	-0.1747333	-0.7799168	0.35416232	0.58545186
:hanisms	-0.3270669	-0.1747742	-2.5740541	-0.6826113	-0.4296794	-0.7540784	0.39613909	0.99412042

Supplemental Table 2 Tab 1

:hanisms	-0.7321063	-1.2885492	-2.2837268	-1.1725195	-0.5189475	-0.8228259	0.10367383	0.63177092
:hanisms	0.07869581	-0.1601903	1.28512847	0.08632529	-0.0247839	0.44021823	0.78295531	1.45383398
:hanisms	-0.6871934	-0.7599067	-0.5813041	-0.4519262	-0.5407282	-0.4559403	0.39354888	0.75645885
:hanisms	0.58697794	0.53430762	-3.8202395	-0.0372645	0.56293247	-0.2452828	0.95276689	0.66811471
vo-component system	1.49222648	-0.1481304	-1.2821743	-0.1508676	0.28148285	1.89225293	0.43635455	-0.020355
:hanisms	-0.4864651	-0.6611218	0.32846092	0.17597492	0.043342	-0.2113918	0.10156909	1.51755263
:hanisms	0.4130249	0.06068031	-1.664903	-0.3629532	0.0563887	1.7229535	0.97838619	0.96684699
:hanisms	1.10135715	-0.4493958	2.49314824	-0.3936638	0.25806607	-0.0813667	1.69044839	0.93517666
:hanisms	-0.3220228	-0.5125057	-2.0349709	-0.7075448	-0.1594794	0.16646054	0.41671672	0.3926915
:hanisms	-1.6276349	-1.0545221	-3.984594	-1.534538	-0.6011651	-2.6203558	-1.5348373	-0.3190912
:hanisms	-0.7438821	-0.7562373	-5.1514651	-1.507646	0.03353867	-2.452143	-0.6166754	-0.2367064
:hanisms	-0.238074	-0.6436027	-4.5201856	-1.1433079	0.2728688	-2.3427506	0.53203025	0.75464764
:hanisms	0.22066369	-0.8840726	0.29750177	-0.7545517	-0.0810001	-0.8583169	0.1280048	0.65759689
:hanisms	-2.0161353	-0.2650022	0.78080091	0.71885813	-0.8821385	0.08397717	-0.7646558	0.25312163
:hanisms	-0.3563869	-0.5296242	0.30856689	-0.4070708	-0.1461454	0.82289474	0.65255226	1.16044246
EC:4.6.1.1	1.1041151	0.08303538	-1.1699912	0.54471361	0.72889871	2.19897373	1.65536863	1.17825108
EC:4.6.1.1	-0.3018128	-0.5956989	2.0421918	0.40930854	-0.0940191	-0.0445212	0.7445359	0.69298644
:hanisms	-0.628964	0.55330188	-0.2192345	-0.0985688	-0.1373516	-0.5462338	0.39797659	1.40028134
EC:2.7.13.3	-0.6198127	-0.4053197	-2.9195821	-0.9689368	-0.4804569	-0.7139839	-0.1425223	-0.3405274
:hanisms	-1.5430035	-1.8553677	-0.1619134	-1.1142166	-1.2143808	0.22978679	-0.6325648	-0.1832075
:hanisms	-0.358074	0.01480107	0.79359297	-0.011388	0.05266487	0.91730311	0.50262775	0.94871012
:hanisms	-0.1318894	-0.7237697	0.8242856	-0.3228189	-0.1829194	-0.5409603	-0.0065974	0.86545891
:hanisms	-1.0803402	-1.0903278	-1.7171704	-0.4415132	-0.7508071	-0.0195179	-0.125578	0.24297057
:hanisms	-0.913023	-0.7251813	-1.3883211	-0.6748715	-0.6860342	-0.2832955	-0.100965	0.4974696
:hanisms	-0.4401204	-0.6319026	-2.363329	-0.0829861	-0.0622783	-0.1921666	0.28905345	0.6064539
:hanisms	-0.6476933	-0.6619146	-0.3568142	-0.5139334	-0.4438286	-0.508757	-0.0110847	1.36736121
:hanisms	0.78633317	0.3490563	-0.8926876	0.20974072	0.28685701	0.38833125	1.37192788	0.88591943
:hanisms	-0.1551297	-0.7395423	1.62096348	-0.4386238	-0.1916383	0.17117676	0.02291967	0.71748133
:hanisms	-0.0063277	-0.9806513	-1.7266712	-0.7684278	-0.3366361	-0.5656517	-0.3724351	0.36345686

Supplemental Table 2 Tab 1

:hanisms	0.11238601	-0.0086755	-1.1223689	-0.4762741	-0.2210254	0.61300247	0.85794276	0.67931889
:hanisms	-0.5512253	-0.9348951	-2.0171691	-0.448098	-0.3582738	-0.5404771	0.7028318	0.39456264
:hanisms	0.24213978	-1.0755315	3.99646673	-0.0890451	-0.0508062	-0.5533104	0.1210154	1.32751362
:hanisms	-0.8105821	-0.9781026	0.35175096	-0.7851435	-0.550153	0.4203938	-0.3249086	0.44763249
:hanisms	0.19056237	0.07452163	-1.6003401	0.50175167	0.11345577	0.05576071	1.84322124	1.56029733
vo-component system	0.56175042	-0.2193375	-2.2983755	0.07618742	0.37175052	0.38839521	1.01506928	0.94773934
:hanisms	-0.1771164	-0.349724	-0.4041554	-0.6281446	-0.075551	-0.2552705	0.38242178	0.19823791
:hanisms	0.05758956	-0.4699396	-1.7595596	-0.9466958	-0.1812185	-0.9612241	-0.3558491	-0.0751832
:hanisms	-0.6967562	-0.3340486	-0.9560944	-0.8679115	-0.5548879	0.62144014	0.0633104	0.49445474
:hanisms	-0.4473937	-0.4076835	0.54745242	-0.4305998	-0.5366411	-0.2858825	-0.7055334	0.39762626
:hanisms	-0.0612565	-0.8661411	-2.2822843	-1.2032183	-0.3570303	-1.5735567	-0.2394944	0.07597635
:hanisms	-0.1070571	-0.2358443	-0.7283423	-0.2723872	-0.0996719	0.3722717	0.04599755	0.8114272
:hanisms	0.16257795	-0.4839785	-0.7850182	-0.2598246	-0.1418102	-0.6910334	-0.0660335	0.28689973
:hanisms	-0.2997945	-1.096981	-1.717467	-1.0669799	-0.0705404	-1.134246	-0.5664064	-0.4832506
:hanisms	-0.3585943	-0.5466901	-1.0296162	-1.1076538	-0.5420987	0.0932739	0.01830797	-0.3289901
EC:2.7.13.3	0.2911434	-0.2160965	0.11459999	-0.5179265	-0.0820383	0.07256944	0.55108345	0.60677314
EC:2.7.13.3	-0.1733268	0.22620573	-1.1585246	0.21116382	-0.2223672	-0.0220571	0.38673844	1.19260963
:hanisms	0.23811936	-0.110749	-0.0991643	0.37186747	0.06571215	0.75020244	1.48194696	0.95318946
:hanisms	-0.6958712	-0.4579188	-0.5646882	-0.5291796	-0.2684122	0.04427233	-0.0159359	0.59978494
:hanisms	-0.7681528	-0.6192811	-0.6650141	-0.444783	-0.4905041	-0.1573627	-0.0636394	0.89506591
EC:2.7.13.3	-1.9315419	-0.8058556	-2.7521217	-1.4497201	-0.9166542	-0.2309167	-1.2983686	-0.8983012
:hanisms	-0.1993692	-0.3170623	-1.3090065	-0.4178233	-0.0553507	-0.3936803	0.30125061	1.02994281
EC:2.7.13.3	0.17521537	-0.3314105	0.52361091	-0.2249427	-0.437351	0.06709265	0.67156879	0.51633791
:hanisms	-0.6889425	-0.9901535	-1.4617978	-0.9220903	-0.5783608	-0.6847173	-1.1160807	-0.6028668
:hanisms	-0.0864442	-0.540443	1.8345635	-0.5508781	-0.3471368	0.48487129	0.70634162	0.39463879
:hanisms	0.67738994	-0.0865427	-0.9106454	-0.1544293	0.61376336	0.36629246	1.46680103	0.81845472
ell cycle - Caulobacter>map(	-0.0220534	-0.4371801	-1.5727095	-0.3896556	-0.1729165	0.29406192	0.50465989	0.7338684
:hanisms	-0.287167	-0.5726835	-0.5693083	-0.4441968	-0.1916764	-0.2122426	0.0977345	1.01720057
ell cycle - Caulobacter>map(	-0.5551029	-0.6379397	2.9329214	-0.478671	-0.7552091	-0.4493425	-0.284301	-0.2590307

Supplemental Table 2 Tab 1

:hanisms	0.20291341	-0.2751837	-1.6097999	-1.0166912	-0.0210301	0.6294161	2.28538849	1.78818594
:hanisms	-2.2607477	-1.0786334	0.40775442	0.71806049	-0.3283165	-1.4199116	-0.3519961	1.08311937
:hanisms	-0.6229514	-0.0866529	0.08182836	0.11819841	-0.2307381	1.47640083	-0.1291542	0.37895201
:hanisms	-1.3855705	-0.9073684	-0.6978215	0.24735636	-0.4533831	-0.7281781	-0.7577406	0.39530481
:hanisms	-0.20379	-0.5900048	-0.3093056	-0.4556849	-0.0907655	-0.1868771	0.5491457	1.0382513
:hanisms	-0.3355825	-1.0480767	1.67615617	-0.3136469	-0.5186467	0.08591903	0.75417147	0.59927223
:hanisms	0.44966868	-0.251625	2.02433638	-0.5773687	-0.1867108	2.24806959	0.04624311	0.00915274
EC:2.7.13.3	-0.4785324	-0.8319708	-0.9914246	-0.7836343	-0.4099663	-0.2729368	1.56561961	0.59423773
:hanisms	-3.548137	-3.9316097	-3.0147143	-3.6360359	-1.5490092	-2.5443926	-0.6775651	-2.6121405
ell cycle - Caulobacter>map(	-0.6548163	-0.3556978	-1.9126869	-0.432122	-0.2619889	0.07537205	0.41265225	0.58460766
:hanisms	-0.8038665	-1.0801185	1.06408755	-0.8508939	-0.2623948	-0.0123627	-0.4258371	0.38619067
vo-component system	-0.7290719	-0.4080025	1.54548337	-0.5547224	-0.4996894	0.14177464	-0.3665875	0.083554
:hanisms	-0.6571741	-0.706415	1.195511	-0.1851468	-0.6242797	0.27546283	-0.124238	0.06329963
:hanisms	0.55258781	0.56805922	0.97006079	0.23567779	0.05027873	1.28593716	0.28304753	0.8827515
:hanisms	-0.3967861	-0.5017087	-0.3825962	-0.820526	-0.3381194	-0.2525755	-0.5440555	0.00498417
:hanisms	0.22950897	0.30924946	-2.1954148	-1.097288	0.08164572	-1.1447159	1.37638662	1.17108114
:hanisms	-0.0145435	0.135678	-2.935427	-1.2248957	-0.1360989	-1.6057754	1.64186588	1.23576284
ell cycle - Caulobacter>map(	-0.2319467	-0.6994378	-2.5592793	-0.1541051	-0.0820749	-0.1785965	0.22817638	0.70591503
:hanisms	0.97508866	0.86430248	2.50837043	0.74393631	0.37827992	0.93185279	2.1917789	0.89863452
:hanisms	-0.525324	-0.5172871	-0.4994287	-0.414566	-0.4004931	0.06353566	0.31203897	0.53941484
:hanisms	-0.1393275	0.02498692	-3.3272103	1.02858207	0.66753555	-2.343365	0.7915615	2.44411159
:hanisms	0.46172245	0.24036798	0.80143727	0.55474926	0.62874984	0.41100199	2.05051849	1.49143127
:hanisms	0.07161119	-0.6019422	-0.0465637	-0.0295623	-0.0318021	-0.2920334	0.99547516	1.17030721
:hanisms	-0.1733689	-0.9052046	-0.9686189	-0.6734171	-0.1916689	0.07712587	0.95450725	0.25715069
:hanisms	-0.7031395	-1.3165392	1.60859181	-0.6634512	-0.7186661	-1.5240164	-0.4305102	-0.5223856
:hanisms	0.10433666	0.10980042	0.78461418	0.15073068	-0.110424	0.38419526	1.23814323	0.4271827
:hanisms	0.49996569	-0.2719087	3.00958368	-0.5789307	-0.1121074	1.00479058	0.81765528	0.39833753
:hanisms	0.34064487	-0.4516729	1.66473671	-0.726762	-0.2690102	0.14416286	0.53289559	-0.213661
:hanisms	-3.461603	-3.7076811	-3.040602	-3.5779801	-1.6003447	-2.466237	-0.692218	-2.5905728

Supplemental Table 2 Tab 1

, secretion, and vesicular tra	1.44447078	-1.0500717	3.27458079	0.780389	0.44365558	0.1512127	0.87473375	0.02922952
, secretion, and vesicular tra	1.98991948	-0.7971976	4.46776078	1.2523215	0.66800998	-0.8776981	0.9801425	-1.0646542
EC:3.4.21.89	-0.640384	-1.2394971	-1.1811897	-0.8112614	-0.4449928	-1.4094396	-0.3872368	-0.0864128
, secretion, and vesicular tra	-0.008157	-0.5960356	-1.8572699	-0.5197616	-0.0915965	-0.7022082	-0.438762	0.35348911
, secretion, and vesicular tra	0.0957738	-0.3239317	-0.604966	0.13560285	0.04540987	-0.7072909	-0.0772063	0.65335963
otein export> Twin-arginine	-0.5606755	-0.877369	-0.484807	-1.0345253	-0.603373	-1.4651254	-0.032887	0.92719738
, secretion, and vesicular tra	0.67497202	0.14250125	-1.6113938	0.99871015	-0.2272353	-1.1325906	0.17814876	0.72892025
EC:3.4.21.89	-0.3044423	-0.5989784	0.40845988	-0.1492186	-0.2879915	-0.4688495	-0.1390955	0.65120833
otein export> Sec (secretior	1.68551437	-0.0762353	1.34974968	-0.5363033	0.08315707	0.03453085	0.96049921	-0.2307586
otein export> Sec (secretior	1.01307567	-0.5622243	1.64584745	-1.1135858	0.00093536	-0.3819183	0.88117878	-0.301832
otein export> Twin-arginine	0.16513219	-0.5460927	-0.6112069	-0.6410662	0.00311366	-1.6927071	-0.1330143	0.69882471
otein export> Sec (secretior	-0.622388	-1.0992992	0.29276816	-0.6651358	-0.5704349	-0.1105301	-0.2549799	0.06115039
, secretion, and vesicular tra	-0.1301236	-0.6311888	-1.7716713	-0.6712795	-0.2088973	-0.4148566	-0.5685303	-0.3773937
otein export> Sec (secretior	0.51853989	-0.4053164	-1.6140955	-0.4956383	-0.0678295	-0.7430058	0.08107096	0.28844483
, secretion, and vesicular tra	0.4440498	-0.3243258	-3.4751457	-0.5699056	0.30501215	-1.3323018	-0.4712103	-0.1887813
otein export> Sec (secretior	0.22343549	-0.7884303	1.09999549	-0.1291752	-0.0954498	-0.460782	0.03615386	0.12110557
otein export> Sec (secretior	0.82554685	-0.0118087	0.30285905	0.07784669	0.30851998	-0.1544771	0.01132045	0.52018483
otein export> Sec (secretior	0.12705031	-0.5858375	-0.9817113	-0.8022038	-0.3246924	-1.4083529	-0.4212641	-0.0851089
otein export> Sec (secretior	0.89595903	-0.0446735	-1.2446757	-0.2235495	0.38334264	-0.556768	0.5287002	0.25165638
otein export> Twin-arginine	0.029933	-0.1876011	-0.4965255	-0.0007601	0.06383483	0.07799451	0.05213394	1.13090559
otein export> Sec (secretior	-0.0299793	-0.8839097	0.68362283	-0.2632649	-0.2117004	-0.6908899	-0.2784161	-0.1151258
, secretion, and vesicular tra	0.19734212	-0.6821034	0.88163968	0.031741	0.32740872	-1.1938986	0.47778791	0.28818014
, secretion, and vesicular tra	-0.1787605	-0.498256	0.25300474	0.13917393	-0.0304314	-0.4334716	0.84916862	1.44537314
, secretion, and vesicular tra	-0.0635751	-0.5976877	2.48324328	-0.4716517	-0.5766239	-0.3962977	0.62483459	0.52020076
, secretion, and vesicular tra	0.51786872	-0.7222699	2.74382125	-0.8142692	-0.1009513	-0.0323235	0.30208642	-0.5829059
, secretion, and vesicular tra	-0.2584539	-0.8970313	2.200404	-0.5101653	-0.426597	-0.2079037	-0.5413862	-0.8269144
, secretion, and vesicular tra	-0.6350005	-0.3143087	0.83733861	0.62036713	-0.2999721	-0.4154682	-0.1535193	1.26278657
ertussis	-0.9180216	-0.6641311	-2.4380502	-0.5825723	-0.6481351	-0.4627868	-0.9204262	0.06825107
BC transporters	-0.0890356	-1.10614	2.24348882	-0.0177234	-0.4241281	0.01509204	0.67715523	-0.5589291

Supplemental Table 2 Tab 1

3C transporters	-0.1196215	-0.537925	-1.8782467	-0.8548733	0.05116758	-0.4442813	0.77586456	0.21564528
	-1.0396361	-1.4753401	1.8293941	-0.9968824	-0.9434278	-0.1206583	-0.6352478	-0.147759
	-1.1896556	-1.2461448	1.696381	-0.0605267	-0.497105	0.12243025	-0.7109826	0.00529804
	2.22686019	1.12480137	0.10594975	1.91810674	1.78016437	1.65430833	3.27162004	2.35969254
	-0.6872614	-0.113497	-1.7839513	-0.7729343	-0.4001696	0.37199315	-0.7306128	0.02822056
	0.69099169	0.16798013	-1.868328	-0.5021026	0.44353801	-0.2744658	0.47191475	0.18008078
	-0.0294672	-0.8071843	-0.8139682	-0.1507927	-0.2651063	-0.1935522	0.56996697	0.74037894
	-0.1566355	-0.6180678	-1.4869049	-0.5559222	-0.2126761	-0.0899121	0.28330448	0.34236548
	-0.4858352	-0.8224493	0.49411296	-0.6752211	-0.4845083	-0.22688	-0.0454078	0.16166673
	-0.8807158	-1.142003	2.11374384	-1.3404272	-0.3369131	-0.7072655	-0.2707432	0.00790963
	-0.2284393	-0.5100703	-0.1750725	-0.1913148	-0.4129344	-0.4972997	-0.056045	0.33512227
	0.38433209	-0.748822	-0.7278739	-0.4932575	-0.315083	-0.7205416	0.49261636	0.65630974
	0.04241636	-0.626284	-0.7935938	-1.0254925	-0.0386011	-0.7688705	0.86600112	1.09486698
	0.62012474	-0.0426196	-1.3865705	0.02969586	0.58447563	-0.1628068	1.0716721	1.00679893
	1.23191476	0.66179936	-3.0061627	-0.2474376	0.57250721	0.16855778	0.39061796	-0.146479
	-0.6493798	-1.3101709	-0.9165938	0.48895443	-0.2363051	0.51137837	0.42965908	0.86978898
	0.0463471	-0.4076457	-2.1899624	-0.095414	-0.1505265	-0.9759687	-0.4219692	0.11557979
	0.47356556	-0.3747013	-1.7013097	-0.4226144	-0.0206315	-1.5082975	-0.2567915	0.07881412
	-0.4609653	-0.900284	-0.2011718	-0.9297824	-0.3460801	-0.3019483	-0.0160943	0.2282415
	-0.3292609	-0.7727679	-0.4878868	0.17446361	-0.2292139	-1.1483429	0.17333908	0.96312034
	2.48258289	0.78756516	-1.5853469	0.60607239	1.51582164	0.56769377	2.93248772	2.42692597
	-0.0843627	-0.7835567	0.70216821	0.56752402	-0.2028038	1.12052172	0.7358463	1.11315155
	-0.132666	-0.9873761	0.81960936	0.70835766	-0.140663	0.84807097	0.42256019	1.32245835
	0.3841211	-0.1681314	-0.4141856	-0.1119269	0.25449283	-0.3792787	0.32557377	0.21406228
	0.47697847	0.39032506	-0.4669193	0.11600315	0.40885441	-0.699733	0.56353199	-0.2078585
	-0.5071062	-0.7248545	-2.4029146	-0.7893214	-0.3404083	-0.7697069	-0.4211274	-0.1947036
3C transporter map02010 Pu	-0.0296309	-0.1158694	-0.5486765	0.92152324	0.12236376	0.39692172	0.57205029	1.2422347
3C transporter map02010 Pu	0.26809379	-0.668646	0.19779962	0.27768331	0.37014403	-0.0256553	0.80595171	1.44868807
EC:3.6.1.27	0.18818458	-0.4473794	-0.5141408	-0.3936925	-0.039108	-0.5519212	0.36718193	0.81896211

Supplemental Table 2 Tab 1

	0.09004707	-0.5251061	-1.8029469	-0.470031	-0.0340391	-0.3866711	-0.5230957	-0.080291
	-0.9179021	-1.0598423	-3.2674818	-1.6410221	-0.6514191	-1.2125426	-1.5892807	-0.6646955
	-0.3516697	-0.8016694	4.66407935	-0.2591448	-0.4351192	-0.2063042	0.52022366	0.47601763
3C transporter map02010 Pu	-0.0311359	-0.6006668	-1.0092558	-0.0725522	0.12753636	-1.2959381	-0.0591692	0.46143132
	-0.6132635	-1.4345629	-0.9658094	-0.7973147	-0.3671087	0.04426494	-0.2473758	-0.253731
	-0.8571688	-0.5037308	0.16494778	-0.3109009	-0.300334	0.75798893	0.023966	0.38004715
EC:3.5.2.6	-1.1329229	-1.4810509	-4.1655634	-1.6912218	-0.9330987	-2.3017422	-1.3206497	-0.7275515
	-0.7642503	-0.3660855	-0.1971573	0.30465416	-0.1795102	-0.6836267	-0.230016	0.4787579
EC:3.5.2.6	0.59083125	-0.9060741	-1.473675	-0.4228097	-0.0212572	-0.8051753	0.14069716	0.21171723
	-0.1321263	-0.1451895	-1.8072363	-0.656729	-0.2170231	-0.5406763	1.44012285	0.09349501
	-0.6320813	-0.8333755	0.26162327	-0.826669	-0.5898308	0.14622402	-0.5099342	-0.0270331
	-0.6939913	-0.9016534	0.31028754	-0.5372658	-0.4634167	0.24262549	0.07851181	0.7118907
	-0.7986962	-0.9153099	0.93906664	-0.1847784	-0.520186	0.18494001	-0.526914	0.53143614
3C transporters	-0.3999611	-0.6963105	-0.6261511	1.89030227	0.55763452	-0.3706782	1.75856425	3.52556463
	0.00470389	-0.780471	-1.1094596	-0.5815551	-0.1989483	-1.1790603	-0.0881353	0.62336179
	-0.4931972	-0.7292636	1.74063742	-0.1129294	-0.2231101	0.39373411	-0.0902977	0.36672481
	-1.1422064	-0.8227972	-2.036476	-0.5752694	-0.4300279	-0.9174261	-0.3082596	-0.0676988
	0.21759376	0.07957122	0.37420736	0.21019017	0.35834141	-0.2965019	0.6184915	0.37767234
	-0.2474213	-0.0460941	1.46253774	-0.8791874	-0.4146775	0.07489141	1.73732559	0.59047263
	0.69210899	0.39251708	1.33279805	0.03224173	0.32505457	0.23828774	0.9681226	0.79772903
	0.56104722	-0.4237032	-1.5482209	-0.5810726	0.31900018	-1.3661697	0.95857754	0.42707069
	0.8129087	-0.2122444	-2.6839827	0.02136999	0.36399358	-0.2664482	1.72080957	0.46508843
	-0.1541119	-0.4039363	0.91549196	-0.1471596	0.00334814	-0.249461	1.05957452	0.25810085
	-0.4291272	-0.9434912	1.99653519	-0.5567597	-0.6018241	-0.2921872	-0.1545514	0.10880898
	-0.0841093	-0.9483575	0.59420584	-0.5619186	-0.1835334	-0.601512	0.50300427	1.08227592
EC:1.14.13.81	0.06237256	-0.220853	-2.4212777	-0.3054895	0.22975569	-0.8346345	-0.1790608	-0.5364221
iotosynthesis map00195 Ph	-0.2066283	-0.6368353	0.79136124	0.13886146	0.2190393	1.37393596	0.4076381	0.16857197
	0.07922257	-1.6710777	-4.4905054	-0.5998707	0.09192915	-0.1905663	2.06897612	0.78303555
	-0.2064415	-1.2435528	3.26571872	0.73986931	-0.6586867	0.07669708	1.19183575	-1.2166233

Supplemental Table 2 Tab 1

	0.85728531	0.13566871	0.5849625	0.48079392	0.37834829	-0.097717	2.71789074	1.3014003
	-0.7760798	-1.027935	-2.2392862	-0.7381097	-0.5159782	-1.7969449	-0.491702	-0.5790736
ıotosynthesis map00195 Ph	-0.4953269	-0.9986408	-2.6641074	-0.7309425	-0.2252989	-2.2179507	-0.5776544	-0.4357922
	0.05295342	-0.3820635	-0.1858201	-0.2512867	0.08829286	0.17451049	0.12035472	0.22805228
	-1.1092785	-0.5400824	-0.9383901	-0.1678064	-0.3786331	0.34255479	-0.4459711	-0.1249942
	-0.6990896	-0.9144216	-0.0906002	-0.4595137	-0.4932345	0.04430536	0.2023582	0.29528381
	0.29681761	-0.2268835	-1.3396791	-0.4762118	0.22640674	-0.955785	0.79747934	0.15761124
	0.55997474	-0.2695519	-1.2766616	0.07202516	0.08215247	-0.3706215	0.44957342	0.07040407
	-0.4503611	-0.5537818	0.98994256	0.22830689	-0.3585025	-0.2529348	-0.260685	0.36645871
	-0.821527	-1.1614198	-0.5346142	-0.8783833	0.01215646	-1.4609469	-1.6364048	-0.0085119
	-0.5826164	-0.9328717	0.26947232	-0.9053148	-0.352597	-0.6824136	-0.3390085	0.48434526
	-0.3331741	-1.2510784	-1.1476985	-1.1062051	-0.4422492	-1.3781675	-0.5484351	-0.0023526
	-0.8270081	-0.7051668	0.64267864	-0.2380582	-0.575424	-0.7539537	-1.376182	-0.0940837
	2.00589053	0.6724668	-0.4437476	1.17905824	1.40611204	0.34389033	2.86343882	1.56806657
	-1.1170587	-1.1361332	-1.1942105	-0.5870901	-0.7574168	-0.4090797	-0.505439	-0.1385708
	1.81608621	-0.0866238	1.15223661	0.82846852	0.1720642	0.45916621	2.10551746	1.32740588
	2.15114428	0.65035712	1.53929771	1.70472312	1.73125157	-0.0412272	2.53772505	1.9490954
	-1.1880601	-1.2658672	0.7164831	-0.1468451	-0.8538116	-0.5876814	-0.8303753	0.15959273
	-0.4982903	-0.6353765	0.91920292	0.43334339	0.01312141	-0.2992041	0.3315038	0.30288904
	-0.2845373	-1.3645483	0.12066578	-0.2194177	-0.5043204	-1.3771593	-0.2036841	0.22587945
	-1.1921366	-1.2792938	-0.2039133	-0.759496	-0.451592	-2.0488473	-0.6969842	-0.3098872
	0.93848493	-0.8237302	6.76112192	-0.6000064	0.73471299	-0.1075969	1.47564464	1.40777585
	0.94725535	-0.2019555	1.19157105	0.14701807	0.62367736	-0.1360694	1.18714012	0.95830833
ıotosynthesis map00195 Ph	-1.912658	-0.5462809	-5.6071104	-0.6099959	-0.9600993	-2.8334358	-2.7928724	-1.4603428
	-0.4887625	-0.842908	-1.0592123	-0.2013562	-0.3465802	-0.4570388	-0.5213659	0.76848572
	0.04539393	-0.2252833	0.47415854	0.14236277	-0.1992613	-0.0779821	0.67946937	1.35817798
	-0.2150269	-0.9842332	-1.3704208	-0.2510982	-0.5736306	-1.3645263	-0.0098641	0.55716665
	0.03968861	-0.5181405	-3.083914	-0.2357998	0.08571246	-0.7630609	1.00479001	0.87126005
ıotosynthesis map00195 Ph	0.40794271	-0.1861785	0.59586992	0.65365134	0.19411878	0.36624522	0.19181688	0.10513829

Supplemental Table 2 Tab 1

	-0.1404057	-0.6777109	-0.0198316	-0.6793802	-0.4037363	-1.1982547	-0.3898926	0.13619467
	0.31525821	-0.7603841	-2.8933136	-1.1321401	-0.0823122	-2.4950073	-0.0433473	0.20319311
	-0.6334925	-1.2450002	1.39703701	-0.1958839	-0.2878439	-0.5061891	-0.2002947	0.39464895
ıotosynthesis map00195 Ph	-1.1196783	-0.3785933	-5.0531277	-1.3681959	-0.8273398	-2.7401115	-2.8511879	-1.8536023
	0.40627988	-0.1614332	-1.6092479	-0.3287922	0.2388347	0.97333693	0.40517232	0.13558535
	0.07525548	-0.4622987	-1.5372896	-0.1474875	0.43119632	-1.3098161	-0.1572063	0.38571148
ıotosynthesis map00195 Cy	-0.0864039	-0.2565463	0.56729576	-0.3936886	-0.6215272	0.366255	0.21258348	0.74262545
	0.33558412	-0.2495677	-2.1100404	-0.2622018	0.04548406	-1.9741598	0.64604926	0.89051539
	-0.6288573	-1.1516009	-2.9203054	-1.3667032	-0.5039543	-0.965959	-0.7265459	-0.403601
	0.03720764	-0.2671069	-1.6723634	0.16272509	0.27286457	0.39983142	1.51744677	0.87568592
	-1.0138197	-0.5527044	0.40771067	0.35673448	-0.0854808	0.02154428	0.144959	0.8510972
	-0.4106095	-0.8053044	-2.4980278	-0.2480857	-0.2960242	-0.6109964	-0.3262141	0.21963841
	-0.3683544	-0.3736443	-1.5790698	0.10779616	-0.2005506	-0.0545226	-0.1018466	0.80079443
	-0.7917597	-0.3807256	-1.6157954	-0.4299663	-0.3131704	-0.7224117	-0.6278195	0.30098428
	0.55992333	0.91340491	-0.7546331	0.24374997	1.3296179	2.21427961	1.99020921	1.74267716
	-0.2318938	-0.4951516	-1.8675936	-0.7934423	-0.1108871	-0.026627	0.26792387	0.14414196
	-0.7351278	-0.4494666	-3.341368	0.40604441	0.17194648	-0.4248173	1.65320473	0.70776295
	1.1448972	-0.2386343	-1.0992313	-0.4179191	0.40705219	0.19807454	1.29029151	0.76816477
	0.80446593	-0.4467489	-3.152453	-0.3650048	0.57935671	-1.6303469	0.46996332	0.22194767
	1.25294429	1.25916622	0.95962732	-0.6858335	0.37853722	0.52329674	0.78720538	0.45568641
	1.76750043	1.54340039	1.17672725	-0.5380642	0.85806073	1.08989863	1.06052205	-0.0699714
	0.21894059	-0.1915776	-1.6102783	0.02141134	0.07541482	0.35097876	0.56243339	0.8869768
	0.07059543	-0.57054	-0.5951265	0.77450689	0.4628358	-1.5005267	0.35486128	0.60307769
	-0.5255009	-0.485218	-1.6216955	-0.1032748	-0.1720672	-0.1384483	-0.0786343	0.15404832
	0.22336184	-0.3705856	-2.2977901	-0.4126879	-0.2379379	-1.5336275	-0.1718604	0.52488658
	-0.1032188	-0.1994183	-3.0873924	-0.4595653	-0.1145521	-1.2236086	-0.3731093	-0.193186
	-1.2545728	-1.0042495	-1.4497109	-0.7442524	-0.9433711	-0.2102639	0.22461335	0.92463399
	-0.3794993	-0.7740474	-0.9915127	-0.3221839	-0.4864055	-0.7002795	-0.716873	0.00705569
	1.01241652	-0.6716167	-1.5107834	-0.6118488	-0.006508	-1.2907599	0.4356897	0.28068422

Supplemental Table 2 Tab 1

	-0.7548882	-0.6584803	0.48611164	-0.711231	-0.4516741	-0.0681125	-0.7206619	0.35786973
	-0.1420808	-0.2054968	-1.3105423	0.14506592	-0.0280729	-0.4559749	-0.0386542	0.77340634
	-0.5971282	-0.1856288	-5.2101683	-2.2985914	-0.7359322	-4.5013701	-3.6768448	-3.2247796
ıotosynthesis map00195 Pl	0.10716671	0.40142466	-1.9254477	0.30865009	0.37335412	-0.3367967	-0.5057199	0.41943409
	0.01306436	0.17917772	2.69179091	0.98214872	0.00406504	0.45605284	1.06538985	2.10512065
	-0.2964014	1.8527335	2.56342105	-1.8661284	0.08230469	0.75719457	0.24147291	0.12159396
	-0.6856849	-0.6253401	-0.6379916	-0.4480299	-0.5782781	-1.0715883	-0.9128517	0.27180802
	-0.4732266	-0.6396159	-0.6517928	-0.4331513	-0.42755	-0.5376607	-0.6645477	0.20092531
	0.51463721	-0.2367648	-0.2522621	-0.4297795	0.10893936	-0.7106181	0.10554239	0.62320713
	0.39148022	-0.1969586	0.23952625	-0.1370512	0.04165911	-0.9012125	-0.0593213	0.27005654
	-0.1375314	0.53008617	-0.1697509	0.60634161	0.02018949	0.67667867	1.55086264	1.7832827
	0.14480239	-1.5018704	-1.1698069	-0.3938245	-0.0854952	-0.955792	0.77142495	0.32749344
	-0.7339365	-0.4472045	-0.9437718	0.00261473	-0.2658278	-0.5451342	-0.1184122	0.77387888
	0.63790652	-0.4307703	0.1243593	-0.7195686	-0.3611157	-0.9755696	0.07249017	-0.1689669
	-0.1236561	-0.5846089	-0.9292753	-0.4011864	-0.2951078	-1.9188107	0.02338738	0.56072069
	0.50471315	-0.0046072	-0.3266213	0.0019415	0.28639599	-1.7651462	0.82630291	1.02882365
ıotosynthesis - antenna pro	-0.1349512	-0.1517097	-1.451813	-0.4104159	-0.0783703	-1.2392193	-0.7843382	-0.3921652
	-0.6916055	-0.4328002	-2.3542531	-0.7156174	-0.9725437	0.89227704	-0.3869641	0.74669927
	-0.4094002	-0.1006979	-0.1535132	-0.7078928	0.01404582	0.3217766	-0.3626656	0.76663971
	0.01703096	0.19418732	-1.3842056	-0.4064079	0.22647475	0.19935387	0.1259059	1.06503946
ılycyclic aromatic hydrocarb	-0.141991	0.13121734	-3.2981064	-1.0322824	-0.0442939	-0.0717087	-0.6484503	-0.0168787
	0.5656082	0.89314578	0.47688396	0.01702501	0.54687484	0.95344052	0.29129512	0.70528633
	1.22937437	1.14745848	-1.6550966	0.69942517	1.04102143	1.13416765	1.5438493	1.35090549
	1.00423649	0.68152248	-0.4349971	-0.0538347	0.67126782	0.44302711	0.94724365	0.65461293
	0.34935874	0.3678984	-4.3395307	-0.6674802	0.17205253	0.39792679	0.87186641	0.49322124
	2.74327823	2.65041556	-3.1686212	1.90416322	2.7005735	2.6143016	3.69070739	2.84227266
	0.97485128	1.34940945	-5.2586637	-0.0889138	0.86385346	1.30993132	2.21096919	1.4987299
	-1.0765977	-0.4465257	-1.5513851	-0.7864024	-0.5072154	-0.1610866	-1.1148375	0.02713896
	-1.0537337	-0.1967875	-1.0709373	-0.3861377	-0.6283625	-0.2233149	-0.4135791	0.62161412

Supplemental Table 2 Tab 1

	-0.5582558	-1.2899919	-0.5315541	-0.5661635	-0.5252373	-0.6460419	-0.6478576	0.71916599
	-0.3290648	-0.9004474	-1.444342	-1.0275684	-0.2534069	-0.4702996	0.15791424	0.71762832
	-0.175606	-0.1583628	-1.8721213	-0.5623069	-0.0229776	-0.6327416	-0.8604837	-0.1463919
	0.95391895	-0.1976907	1.19304758	0.14757022	0.62921886	-0.1294058	1.19017553	0.96128742
	-0.4400965	-0.501694	-1.2809543	-0.1284598	-0.1868921	-0.8815731	-0.6413474	0.10138949
	0.01841948	-0.1918084	-1.6414481	-0.2505668	-0.1346776	-0.6084781	0.446873	0.87701063
	-0.394292	-0.4587664	-2.0123976	0.22268687	-0.4358773	0.74930926	-0.1530328	-0.516853
	-0.2012675	-0.4420948	0.13044976	-0.4811626	-0.3883709	-1.3326943	-0.3400152	0.40687086
	-0.0717668	-0.423203	0.16401196	-0.2336144	-0.1707782	-1.2125408	-0.3411658	0.39833267
	-0.4582773	-1.5272679	-0.2082103	-1.4948616	-0.8849693	-0.4260149	0.69305033	0.60445152
	-0.0006091	-0.330116	-2.8360337	-0.6371677	0.16593548	-0.0527973	0.11770662	-0.0772457
	-0.5548916	-1.1072444	0.81074671	-0.9423335	-0.6305356	3.148233	-0.1169327	1.83965935
	-0.6683876	-1.0068118	-0.1178825	-1.5033007	-0.7931908	-0.7897382	-0.8755909	0.19604739
	0.00766855	-0.548131	-0.4665927	-0.1175585	-0.2392658	-2.5564535	-0.0124822	0.97071593
ıotosynthesis map00195 Ph	0.31299067	0.25352271	-0.7265772	0.40359217	0.15446722	-1.2615273	0.14011103	1.39096611
	-0.1241794	-0.5109891	-3.1335017	-0.7256544	-0.3072114	-1.6971459	-0.5489201	-0.0044219
	-0.585152	-0.580492	-0.3009509	0.06155095	-0.2382078	-0.0665065	-0.5334317	-0.0585298
	-0.691641	-0.472879	2.15842047	-0.1988314	-0.3555372	0.31008415	-0.4715032	0.12863259
	-0.0250577	-0.3861936	1.13405847	-0.7307035	-0.3888446	0.47051997	1.89701182	0.76809736
	1.06244947	-0.2121942	0.28969477	-0.1712192	-0.4840476	-0.2551903	2.05621418	0.60770414
	-0.7449269	-0.0866428	1.27091171	0.02132647	0.00407733	0.62925449	-0.1733316	0.75727633
	-0.5844653	-0.9554019	0.48234122	-0.5005634	-1.1070094	-0.2712598	0.3526919	0.90264052
	-0.0588482	-0.6716295	-1.2057767	-0.5871923	-0.4567421	-1.3648541	-0.1698086	0.32499759
	-0.2656972	-0.6299192	-2.885359	-1.1226316	-0.1558047	-1.0688619	-0.2481233	0.43190523
	0.24108538	2.09396667	-2.0511393	-0.3311814	0.28863397	0.42309129	0.20737239	0.74352041
	0.03768363	-0.3560762	-0.0916649	0.52950122	-0.0602268	-0.8109725	0.35937205	0.84212557
	0.47745347	0.32838497	-2.0176214	-1.3411656	0.01594154	0.1597966	1.0870437	1.39469028
	0.75631292	0.49829888	2.02013699	0.34328462	0.30448908	1.27313256	1.90899737	1.47440217
	-0.952786	-1.1890389	-1.687107	-0.6177376	-0.4432825	-1.1682828	-0.468377	0.42046416

Supplemental Table 2 Tab 1

	0.43560657	-0.507246	-1.5329387	-0.1953996	0.12823983	-2.2016529	0.21865811	0.57454367
	1.00481472	0.38738782	-2.1694084	0.99101552	0.47178001	-0.1482569	0.99032209	0.97970567
	-0.0759879	-0.243833	-3.2634185	-0.0574772	-0.1517137	-2.6380984	-1.1165662	-0.3602426
	-1.6920193	0.43215225	-3.0696518	-0.3161119	-0.8378139	0.79116747	-1.6301254	-1.2483404
ıotosynthesis map00195 Ph	-0.5736762	-0.3090507	-1.2766239	-0.6685504	-0.0151273	-1.3130502	-0.8563829	-0.1756615
	0.05648505	-0.2905318	-2.1365388	-0.0212282	0.28133731	-0.2945118	0.27122793	0.52854396
	-0.2010509	-0.5079468	-0.974513	-0.2575804	0.02302591	-0.4350492	0.17863604	0.31069302
	-0.0980706	-0.1513753	0.06618112	0.28120436	0.31641238	-0.1483729	0.73938495	1.06666567
	0.5598738	0.60140623	2.7210566	0.13680491	0.71951533	1.99846912	1.18651177	0.57909072
	-1.0526518	-0.9269172	-2.1038039	-0.4598999	-0.7024207	-1.8961782	-1.1565416	-0.2483294
ıotosynthesis map00195 Ph	0.14195183	-0.4263732	-2.2767501	-0.2550994	0.41198376	-1.6010916	-0.1866887	0.04410105
ıotosynthesis map00195 Ph	0.2140519	-0.1996284	-2.4657145	-0.0889037	0.47271935	-1.4772135	-0.1130695	0.00805192
ıotosynthesis map00195 Ph	-0.1895712	-0.5951583	-2.3895715	-0.4296031	-0.046813	-1.5778958	-0.7173669	-0.2065797
ıotosynthesis map00195 Ph	-0.0399431	-0.6631898	-2.3103186	-0.4838923	0.21309425	-1.5238626	-0.5655114	-0.3542859
	2.1037634	1.32760428	-1.1708732	0.48081541	1.69971038	0.2128822	3.13926897	2.80491542
	-0.3327734	-0.5664167	-3.0487194	-1.0719924	-0.5271322	-0.4610668	-0.8686465	-0.5568747
	-0.8893319	-0.6716281	-1.7844038	-0.5058996	-0.4118084	-0.390523	-0.4513022	0.62657162
	-0.5285067	-0.4916491	-1.4778227	-0.4072022	-0.1814719	-0.7449104	-0.5568649	0.65722966
	-0.8334753	-0.8293355	-2.6398366	-1.2814968	-0.3930465	-1.2324833	-1.4918863	-0.1733345
	0.59386433	0.94728719	2.03789415	2.04265608	-0.1069285	1.66318633	1.73224549	2.26741561
	0.88116811	0.45970717	0.31573551	0.7955981	0.61640774	0.60673588	0.85175207	1.44709458
	0.12430653	-0.1718249	-2.9565413	-0.0662609	-0.1074992	-1.2816823	-0.3531972	-0.0967162
ıotosynthesis - antenna pro	-0.7224235	-0.1762368	-4.3026332	-0.5612624	-0.0114402	-1.739194	-1.1192522	-1.1795695
	-0.7715991	-0.7383036	-5.0293171	-1.2545167	-0.4638171	-2.7397467	-1.9002715	-0.9645188
	-0.7942105	-0.5035951	-2.6964304	-0.8030868	-0.319423	-0.0364415	-1.185628	-0.3500536
	-0.4866227	-0.1570567	0.74781985	-0.0733015	-0.0941732	-0.0381988	0.31664004	0.81435892
	0.05499313	0.05420896	0.57908531	0.53931533	0.47175389	-1.4950809	0.49721296	0.86407109
	-0.9214426	-0.9656862	-2.1194404	-0.5257483	-0.3721876	-1.422842	-0.7273398	0.70256466
	-0.4699852	-0.4555762	-3.1921027	-0.3215449	-0.1976279	-1.808133	0.11752066	1.25937128

-0.4921941	-0.2837042	-0.4575185	-0.1845362	-0.1493254	0.86037312	0.01295957	0.84210341
0.92756199	-0.0652181	1.74041366	0.03745107	0.71266815	0.01147641	0.49167666	0.80266197
-0.2795548	-0.5945251	-0.3255206	-0.3922685	0.00645938	0.30766672	-0.6399392	0.54459207
0.19819758	0.22008688	-1.1578257	0.34089266	0.19568142	-0.2452341	0.17980249	1.50821799
-0.1361954	-1.1414437	-3.0760897	-1.6443122	-0.2395384	-2.3290724	0.08780824	-0.2672897
1.71395764	1.14773668	0.81959186	-0.3656994	0.26362692	0.39963834	1.06752753	0.69941891
-0.1238386	-0.5111615	0.10038118	-1.2900128	-0.1754212	5.41992782	-0.8082309	2.41970015
-0.3042641	-0.7446509	-1.6330027	-0.742179	-0.2302064	-0.0767584	-0.7293928	-0.6680467
-0.5612157	-0.7666587	-0.7164534	-0.5078328	-0.3488266	-0.8848548	-0.4056521	0.14964452
1.44882071	0.68194432	-2.754667	1.565623	1.62807446	0.04430056	1.62755117	1.99407033
-0.3587727	-0.4947434	-1.5232762	-0.2354174	-0.2673088	-1.231351	0.65640859	1.3364877
0.27748651	-0.8237285	-1.0767162	-0.2131189	-0.2065312	-0.775155	1.30241138	1.34118431
0.58712781	0.95691364	-1.0084661	-0.4586071	-0.065198	0.38285636	0.6862113	0.65549505
1.00920724	-0.2021458	-1.9632397	-0.3936728	0.2140755	-0.1804655	0.93355018	0.24601479
1.08233952	0.41172242	-1.1027413	0.5946655	0.32219976	0.76041142	1.69572964	1.17218734
0.0199267	0.08255416	-2.2487743	-0.0450855	0.14965757	-0.5192066	-0.3838044	0.152454
-0.259546	-0.3495118	-0.4041252	0.69952943	-0.8058066	-0.190206	1.48848168	1.26442642
-0.5873721	-0.8502532	-1.5054006	0.05652069	-0.0743023	0.38651125	-0.9351335	0.53562383
-0.4676102	-0.5922036	-0.2111219	0.04158785	-0.3584823	-0.2658316	-0.0795953	0.05904524
-0.9674188	-0.8223251	0.37281773	-0.0717647	-0.4641942	-0.1394362	-0.7752002	0.50738678
0.13059272	-1.1810019	-2.8885225	-1.9073989	0.0195526	-0.1353906	-0.2692567	-0.4526869
0.03096502	-0.6224915	0.6191619	-1.3059401	-0.1381341	0.51534783	0.28320669	0.46559554
-0.3425431	-0.5685274	1.26193205	-0.6320099	-0.2280121	0.77051132	0.2905269	0.61078949
0.55985639	-0.0866429	-1.1696478	0.48074597	1.08626646	0.36611834	1.18646353	1.66308174
-0.4340987	-0.6098452	1.28644119	-0.0338048	-0.2995964	-0.2061941	0.06051613	0.32754104
0.88183603	-0.7455509	5.91459318	1.84917948	1.31959987	2.32970929	3.14801707	4.22894753
-0.487046	-0.9625565	-1.6606033	-0.8717166	-0.4540149	-1.1325875	0.15392459	0.54085112
0.72740551	0.49464764	-2.3812459	0.12796503	0.12458657	-1.4609443	-0.1117454	0.29915829
0.27363395	0.24829726	2.93893861	0.13419045	0.17727351	1.56895036	0.15721125	0.38140075

Supplemental Table 2 Tab 1

	0.24343475	-0.2050713	1.10962589	0.01476179	-0.1100862	0.82513868	1.1917534	1.16927307
	0.02689924	-0.5966837	-1.1506301	-0.4327074	-0.1893068	0.01513661	0.18758989	0.70498282
	-0.2315023	-0.0549668	-0.3486695	-0.2416938	0.05654372	0.7521083	0.11665963	0.74257346
	-0.2327723	-0.77702	-2.7222928	-0.6699105	-0.2130616	-1.1940625	-0.3712633	0.06973961
ıotosynthesis - antenna pro	0.51503542	0.33719891	-1.7034891	-0.0254398	0.60997658	-1.5386668	0.31711335	-0.8438325
ıotosynthesis - antenna pro	-0.0991669	0.15868648	-1.3414525	0.07338284	0.25031697	-1.7729044	-0.1317933	-1.4569799
ıotosynthesis - antenna pro	-0.187087	0.01912714	-1.4223403	-0.0073786	0.16461339	-2.048637	-0.344043	-1.7165221
ıotosynthesis - antenna pro	-0.2803135	-0.3081302	-2.6024353	-0.2225399	0.03078114	-2.7879068	-0.4960427	-1.0363505
ıotosynthesis - antenna pro	-0.2667146	-0.3303241	-2.5130762	-0.2409622	0.01779226	-2.8204517	-0.4323032	-0.9564306
	0.06244947	-0.0277483	1.8526657	0.37888309	-0.3584363	-0.2553275	1.01248004	0.72963348
	-1.7416079	-1.2481388	0.58477684	-0.7630602	-0.9461648	-0.6208369	-1.6483494	-1.3840835
	-0.4840876	-0.5118476	-0.3716687	-0.6182569	-0.1194792	-0.1465115	-0.2925204	0.91064947
ineral absorption	0.32435192	-0.3276655	0.64554763	-0.0066787	0.22029358	-0.5476514	0.27268711	0.23759186
	-0.8683112	-0.4174986	-1.4344869	-0.1018353	-0.3817108	-0.6309277	-0.4530178	0.51729784
	-0.9558569	-0.9565121	-2.2823949	-0.3471867	-0.5869189	-0.6830072	-1.0140382	-0.4714992
	-0.341798	-0.3890757	-0.1219507	-0.321553	-0.3771102	-0.7136476	-0.2632066	0.60438653
	-0.6011799	-0.375147	-3.5768917	-0.4485928	-0.1576499	-1.0920434	-1.139706	0.48021809
	0.90691608	0.20144799	0.64413559	0.3125627	0.22139412	0.2326334	0.73088466	0.05360828
	1.07512812	0.24706357	0.5046423	0.166903	0.28457519	0.24676419	0.59146671	-0.0257916
	0.76749128	0.19814844	0.3687091	0.06781478	0.1916998	-0.1240451	0.3560352	-0.1786566
	0.0737731	0.36373112	-3.6088738	0.3736265	-0.1259093	-0.1883971	0.30179084	0.46010901
	0.59988255	0.82553478	-2.0209481	0.60973163	0.19312027	0.27166902	0.58808918	0.61491322
	0.10332528	0.28018768	0.76705497	-0.423838	-0.3940164	0.52838593	-0.586296	0.38360137
	-0.3092936	-0.7808795	-1.8433408	-0.1412649	-0.1021016	-1.0304696	-0.6335329	0.47130808
	-0.5768229	-0.7465414	1.60045935	-0.3820598	-0.271595	-0.0585984	-0.6613169	-0.2911849
	0.43436159	-0.1273005	0.33277485	0.38280534	0.56609501	0.90225185	1.44591846	1.58387577
	0.85656968	-1.4020539	0.7902049	0.45356703	0.3784688	0.07360414	1.70869838	2.38563294
	1.61094236	-0.0194699	0.9299974	1.0217528	1.05688102	-0.5151258	2.78302309	1.75770205
	-0.3078115	-0.2494934	-0.8222634	-1.1236562	-0.5102286	-0.1583849	-0.9431429	-0.7289469

Supplemental Table 2 Tab 1

-0.217597	0.17644713	-2.169925	-1.2128963	-0.56474	0.21430549	1.40975798	0.87076164
-0.25247	-0.3540769	0.86137573	-0.0216455	-0.0526763	-0.7055043	-0.456212	0.10149499
0.35491621	-1.1019305	1.03522648	-0.3512855	0.09588695	-0.1035031	1.01274855	0.38079103
-0.0334711	-0.6221962	-3.0109292	-0.2859707	-0.1029278	-0.6405656	-0.2266963	-0.0731879
-0.293006	-0.6000864	-3.245058	-0.5037648	-0.5593057	-0.8610833	-0.7839969	0.01257293
0.33950598	-1.3497357	3.48849458	-0.5457295	-0.4580524	1.26923691	0.47555289	0.05624033
-0.2828463	-0.8984149	2.82865687	0.31145206	-0.4486697	-0.4986908	0.64341602	1.33874745
1.03632399	-0.0053933	2.24924155	0.68759556	0.35316878	0.35361823	1.89701882	1.75151275
0.01179081	-0.5988543	-1.1345936	0.44082781	0.00224599	-0.6495145	0.3746493	0.66702775
-0.9148614	-0.7909468	0.312438	-0.4013257	-0.4369309	-0.0938224	0.60902497	0.84667685
0.48951098	-0.2010006	-0.4788398	-0.5456966	0.1071723	-0.8853601	0.75263482	0.95694988
-0.1749676	-0.9172986	-0.9386779	-1.1076602	-0.2267578	-0.9595466	-0.1039927	0.09625119
-0.2880208	-1.0866507	-1.7545292	-0.97875	-0.5284562	-0.4532568	0.99021898	0.18320078
0.54673757	-0.0017741	-0.9968923	0.02789536	0.3250358	0.32900925	0.7671887	0.68719636
-0.3396913	-0.8007153	0.67973168	-0.4243338	0.08870113	-0.5751997	0.35306652	0.87806398
-0.1269338	-1.5460228	4.11235481	-0.3936223	-0.2329538	1.73462726	0.79751335	2.97964958
0.99480306	0.06530113	-2.3395088	-0.241786	0.05657653	-0.3707059	1.29592097	0.30442113
-0.3950023	-0.1847957	-0.9017929	-0.436855	-0.4288808	-0.1082658	-0.72977	0.67806474
-0.4611023	-0.9307048	-1.9902994	-0.658048	-0.204505	-1.2069448	-0.4085224	0.40003392
-0.5293749	-0.4699942	1.16371453	-0.2649465	0.11314487	-0.4498142	-0.3775919	0.39989193
0.63795266	-0.5561518	-1.584784	-0.9197911	0.11549095	-0.6826853	1.33592805	1.2390395
-0.5639845	-1.5357503	0.00615063	-0.9347991	-0.596786	-1.0667597	-0.3053004	0.02583621
0.39293882	0.15918805	0.77299849	0.42151186	0.2907062	0.17422799	0.50440431	1.12665531
-0.2435899	-0.6387674	-1.1239089	-0.4594518	0.02121137	-1.483663	0.16668637	0.69526825
0.51011527	0.18062822	-1.5469368	-0.0540011	0.78904578	-0.8043685	0.85294795	1.30918504
-0.4199542	-0.8130387	-2.3352824	0.22938614	-0.251053	-0.5909869	-0.3514776	0.87985926
0.3717418	-0.3511412	0.6974937	-0.186913	0.08526403	0.85783341	-0.0861488	0.23450011
1.75430453	-0.2445433	2.10663497	-0.0405949	0.18130671	3.65550213	1.24250468	-0.313933
-0.6761717	-0.2549148	-0.6688153	-0.0845309	-0.3494497	-0.2038656	-0.6825187	-0.0478694

Supplemental Table 2 Tab 1

ıotosynthesis	map00195 Pł	-0.51124	0.12062586	-2.6576637	-0.2571922	-0.1835981	-0.6280514	-0.5773492	-1.6807822
ıotosynthesis	map00195 Pł	-0.6282918	0.06859173	-2.5415962	-0.1459283	-0.21968	-0.9140197	-0.5566527	-2.0752811
		-0.5825653	-1.1241938	1.49907159	-1.6202586	-0.4087247	-0.9191382	0.21248767	0.23476912
		0.59928965	0.15959313	-1.0387471	-0.4015014	0.60916949	-0.2851823	0.10898463	0.15175947
		0.14964523	-0.2241857	-1.2833935	-0.7101379	-0.1613965	-0.2587395	0.6426435	1.25383227
		-0.0709488	-0.279294	0.50266174	-0.5192546	-0.3585352	0.73072542	0.23801748	0.80551438
		-1.4401405	0.20753172	0.59279314	0.15653336	-1.1361012	-1.4593029	-0.6175727	0.41329873
		-1.7502147	1.21733946	1.0257143	2.16597805	-1.270208	-1.5362549	-1.2325204	1.3330407
		0.46953487	-0.4521804	-0.807146	-0.3463978	0.22647282	-1.1134812	0.16006577	0.0562292
		1.07343154	-1.1952371	7.04249053	1.46356338	1.17683288	3.34566769	2.50274059	2.28663656
		0.15507277	-0.9224011	6.12687212	1.1427238	0.74990191	2.73643289	1.92941058	1.88148417
		0.25177726	-0.9660836	0.84684198	-0.8013534	-0.1203243	-2.1452118	0.11751129	0.42854714
		0.03907693	-0.7656948	-2.5136643	-0.9677714	-0.0531718	-2.2275055	-0.0712526	0.55082629
		0.58374967	-0.5340687	0.20883423	-0.3698483	0.21036431	-1.4703097	1.27556179	-0.1578362
		-0.5380691	-0.7579437	-3.0986122	-1.2637207	-0.5926639	-3.030466	-0.8158552	0.4832842
		-0.1519384	-0.607709	1.19210295	-0.136156	-0.2228526	-0.4915984	0.30662184	0.79854509
		0.28012748	-0.8174481	-0.362353	-0.7964241	-0.4344683	-0.0787257	1.05123361	0.81973963
		-1.0912944	-0.7233939	-1.6477493	-1.1712957	-0.5922179	-0.061217	-1.8440692	-1.3558269
		0.71328796	0.05418316	-0.4951244	0.30958732	0.71365212	0.66124105	0.69907912	1.23758776
		0.24994072	-0.7305017	-1.2285594	-0.5139926	-0.1278732	-0.0145971	0.17919172	0.33575002
		0.97209098	0.34262331	-0.8615858	-0.8737754	0.56914358	-0.6201448	1.19526579	0.74502712
		0.51962267	0.09390641	-0.7114054	-0.9849414	0.14180499	-0.7297389	0.59585906	0.65768853
		-0.6571769	-1.5692988	-1.1620327	-0.8988102	-0.5584393	-2.4316048	-0.4263273	-0.2317536
		-0.4496651	-1.3121168	-0.6404657	-0.7747753	-0.3395377	-2.0512593	-0.1356951	0.00647446
		0.41030983	0.26125379	-0.4998602	-0.308836	0.4044707	-0.9889074	0.58598555	1.38266861
		-1.603278	-0.9841934	-1.8145098	-0.5247021	-0.7589063	0.11752299	-0.9195776	-0.211784
		0.10766775	-0.2286795	-2.6253851	0.71018355	0.27894687	-0.7333156	0.38816519	0.40284096
		1.48596358	-0.0866578	1.00017894	0.8288218	0.94417502	-0.2777834	3.23428182	3.33269639
		-0.6315001	-0.4586389	-2.0203247	-0.8712708	-0.0954562	-0.9233015	-0.7037527	-0.0468518

Supplemental Table 2 Tab 1

	-0.3654024	-0.6926871	0.5609666	-0.2291956	0.03548893	-0.8354362	-0.1071639	1.10862689
	0.29656265	-0.2122587	1.8300494	-0.171564	0.81126918	0.99836104	1.51346708	0.32724189
	-0.6465661	-0.7305244	-1.1131083	0.04994184	0.20711342	0.3777105	0.46522765	0.88756348
	-0.288095	-0.1768534	-1.2140895	-0.0688394	0.08898102	-0.212207	-0.0043973	1.07570671
ıotosynthesis map00195 Pl	-0.5951615	-0.935546	-0.2896184	-0.738045	-0.2982957	-2.3816177	-1.0091272	-0.387675
	0.48031908	-0.3943689	-0.2194617	0.08707556	0.08081071	-0.6784727	0.46505647	1.2596029
	-1.1027556	-0.9533903	-0.3690146	-0.3975819	-0.5712276	-0.3668941	-0.8347867	-0.0416922
	1.25889254	0.53445762	-0.4579477	0.28533575	0.9941673	0.03859942	1.47718535	0.9451198
	0.60719431	0.03273642	-0.6964778	-0.3824377	0.39198354	-0.0843371	0.60586802	0.54125167
	0.39303128	-0.2307539	-2.2134072	-1.9362865	-0.3261053	-2.1318241	-0.7189597	-1.4676051
	-0.8949302	0.11667632	0.10736525	1.307502	-0.0783755	-0.7343852	-0.6161395	2.01400049
	-0.0288045	-0.0742255	-0.1961761	0.10859523	0.36719335	0.67715179	0.15045764	0.42232258
	-0.4583854	-0.696158	-2.9150897	-0.7363913	-0.0134817	-1.0731969	-1.036531	-0.4339993
	-0.6717302	-1.0543354	-1.199252	-0.7286346	-0.4983183	-1.5086791	-0.6729956	0.60531214
	0.01521357	-0.3633814	1.88290271	-0.4491961	0.03425307	0.29791074	0.30386465	0.18028299
	-0.2377713	-0.2334894	3.66889243	0.86806054	0.05657243	1.20383452	1.12869988	2.59390139
	-0.4704615	-0.6055354	0.37332528	-0.1809948	-0.1986063	-0.1548147	-0.3059518	0.69011258
	-0.1901073	0.07311799	-2.9867869	-0.2872453	0.25649798	-0.6894361	0.15137161	0.92544629
	-0.3849597	-0.4871785	0.72337919	-0.0408506	-0.2386951	0.96237193	-0.2542707	0.03477656
	-0.9025898	0.16445767	-4.2414701	-1.9406393	-0.7396803	0.60629591	-2.4967035	-2.3461307
	0.55979192	-1.6708313	0.63767294	0.60635283	0.05671439	0.21410525	2.34767011	1.32758795
	-0.0581692	0.07843225	-0.8218316	0.14695846	1.00656337	0.28529364	1.03849803	0.38269335
	-0.2740983	-0.9206714	0.76736035	-0.4293313	-0.370269	-0.8869961	0.52740334	0.63838279
	0.33540051	-0.6183859	0.60155666	0.03215071	-0.0888391	-1.4037009	0.03813613	-0.1088429
ıotosynthesis map00195 Cy	-0.3857807	-0.8775886	-0.4343069	-0.216228	-0.1985451	-2.039166	-0.4793123	-0.6592648
ıotosynthesis map00195 Pl	-0.5542268	-0.4697243	-2.1270057	-0.5141679	-0.1118275	-1.7511327	-0.994978	-0.0486168
	0.10423188	-0.2121937	0.38486882	0.15061275	0.4659384	-0.200837	1.29391997	1.05933998
	0.40219134	0.3283706	-4.2144834	-0.4306461	0.6845446	-0.8606289	0.57872578	0.30231683
	-1.4177588	-0.4602649	-0.8923143	0.92082718	0.20516605	-0.6198951	0.84087043	3.09199027

Supplemental Table 2 Tab 1

	0.12131182	-0.3466935	-4.6672668	-0.9379144	0.33113026	-0.4479263	0.1979672	0.49364247
	-0.4107824	-0.113711	-4.4403653	-0.8004484	0.19045929	-1.6402951	-0.6865253	-0.7521914
	-0.2981425	-0.0334134	-5.2634022	-0.8730827	0.27166001	-1.4567308	-0.6105583	-0.669335
	-1.1336757	-0.7452864	-6.9641384	-1.2969336	-0.0102856	-2.5692398	-1.7908201	-0.2121872
	0.63307398	0.05626316	-2.3622793	-0.1207771	0.61106787	-0.5633779	1.93841436	1.62865165
	0.25895402	-0.3877927	-2.8849716	-0.2732384	0.63116549	-1.1938759	1.62658422	1.26358993
	0.73838278	-0.0615547	-2.4174026	0.19974468	0.37857979	-0.5887337	2.49051336	1.61217569
	-0.3554342	-0.7138528	-2.7233369	-0.2314234	0.06839006	-0.8955595	-0.6659132	0.2791771
	-0.3865036	-1.3409082	-0.1728643	-0.2923385	-0.3753832	-0.6001737	0.32710683	1.2808945
	-0.4924899	-0.7540922	-2.7194818	-0.2257478	-0.4504119	-0.2937008	-0.0891852	0.86332658
	-0.1285611	-0.5341262	-2.3846994	0.28899387	0.06208336	-0.2776605	0.19658459	0.92826429
	0.04199718	-0.2281703	-0.9523216	-0.6280572	-0.0269434	-0.5876231	-0.4722604	0.0934521
	-0.5777385	-0.8966105	-1.2728024	-1.1201023	-0.6972678	-1.069994	-1.4332178	-0.5542555
	-0.0986764	-0.534782	-2.9825153	-0.9677982	-0.4040137	-1.8139306	-1.2377134	-0.529725
	0.87803586	-0.2380249	-0.9287301	-0.5381578	0.41908381	-0.6911593	0.65407179	0.90081116
	0.30112339	-0.4587213	0.74190489	-0.8443757	0.01090261	-1.3550803	0.09172145	0.5747208
	-0.1358815	-0.5925622	1.41186313	-0.1800441	-0.0325035	-0.2537228	0.11650657	0.76275255
	0.12662307	-0.7822652	0.86203987	-0.4129575	-0.227867	-1.1425554	-0.9959584	0.36943861
	0.32835828	-0.1761279	1.70567807	-0.1226808	-0.1737588	-0.4919357	-0.2876279	0.948269
	-0.1822384	-0.7189558	-1.9863977	-1.3359111	-0.2195646	-1.3309791	-0.1800947	0.23840562
	-0.1075316	-0.5527968	1.20092913	-0.8598349	0.02337311	0.62678889	0.28261543	0.0657507
	-0.2712068	-0.6343838	0.94359533	-0.8308896	-0.1107227	0.17275275	0.24253225	-0.6603776
	-0.2828449	-0.7947857	-0.0562411	-0.661977	-0.306962	-1.1224012	0.67229703	0.72751707
	0.22907995	-0.5579629	-2.2424835	-0.5000048	-0.20885	-1.3628874	0.4772412	0.89777845
ıotosynthesis map00195 Ph	-0.639625	-0.7267732	-3.3217076	-1.7614198	-0.5859016	-0.8767697	-1.9055287	-0.7037152
	-0.234736	-1.0476666	-1.9672447	-1.0704298	-0.1560101	-1.7446404	0.14237855	1.03426254
	-0.2956429	-0.7430531	-1.1734843	-0.5969662	-0.088979	-0.2866212	-0.098214	0.45960144
	-0.4096345	-0.3800329	-0.4490051	-0.4091765	-0.4335094	-0.7366381	-0.1844771	1.12045214
	-1.2138821	-0.9467258	0.08662731	-0.5240955	-0.8218133	0.3283109	-0.8251638	0.15975879

Supplemental Table 2 Tab 1

	0.00988258	-0.1841835	0.77258568	-0.1998494	0.17202602	-0.5513093	0.40518155	0.7785069
	0.43774808	0.59757378	0.91121658	0.90587347	0.62290685	0.32872614	0.19660118	0.685999
	0.3461768	0.23105933	-0.2338428	0.60106152	0.60444611	-0.0530144	0.03643004	0.14634249
	0.28348477	0.15149246	0.9112014	0.95316445	0.60781972	0.50166236	0.42307631	0.69746709
	0.69236416	0.49830705	0.40598456	1.27800062	1.10094236	0.56299687	0.75322123	0.73263933
	0.49853984	0.10976852	-1.1697649	0.50787673	0.75701777	0.90642093	1.2317537	1.18792372
	-0.4184162	-0.5611793	-0.7711343	-0.1072134	0.04830008	-0.5082973	0.03051104	0.65319126
	0.35020348	-0.0567923	-1.6527345	-0.13637	0.20144708	0.33816586	-0.0810084	0.39739737
	-1.3504627	-1.5017039	-1.0887846	-0.4169988	-0.6298715	-0.6589923	0.16006331	0.92696002
	-0.3969308	-0.7388105	-2.0442721	-1.3507657	-0.6480616	-0.4150375	1.08535596	0.34619083
osynthesis of Tocopherol b	-0.4083634	-0.5016723	-1.3083644	-0.1955477	0.26082834	-0.6727682	0.39841887	0.16404745
iotosynthesis map00195 Ph	-1.2975757	-0.8474583	2.00545922	0.59840105	-0.6942624	0.24795961	-0.7214474	0.35762637
	-1.1816495	-0.6840418	-2.3921293	-0.5656892	-0.6264873	-0.3570948	-0.9772532	0.05765533
	0.23340872	-0.364388	1.35623309	0.02134078	0.09039376	0.39333867	-0.1512543	1.43193804
	-0.3888815	-0.6457833	-1.1871804	-0.1393725	0.02581053	0.42413115	0.14257882	0.99689432
	0.19316831	-0.6550412	-0.1005007	-0.1965379	-0.0117523	-0.9937337	0.61891559	1.23149894
	0.53252313	-0.5647061	0.80416098	0.27043752	0.16689792	-1.1579234	0.56520191	0.96542498
	0.97762931	-0.1882516	1.27858604	0.18086608	0.66877019	-0.0832174	1.19083359	1.00227407
iotosynthesis map00195 Ph	-0.3122509	-0.1201616	-1.6677009	0.09930234	-0.0840146	-0.488381	0.06347682	-1.1054838
iotosynthesis map00195 Ph	-0.2512602	-0.2125774	-0.2880796	0.06337734	0.05135699	0.06472085	0.24901668	-0.783579
	-0.3795464	0.06939752	1.28592923	0.21847144	0.09213722	1.31585358	0.49020054	0.69467056
	-0.4748375	-0.8544931	0.97714035	-0.1712809	-0.3991247	-0.0216078	0.3017308	0.45430251
	-0.1074711	-0.1409397	-0.4328089	0.68441789	0.05667616	0.60231934	2.06820856	1.93527083
	-0.183782	-0.7971884	-1.4328202	-2.3937374	-0.6216285	0.01385782	-1.5948506	-0.4798464
	0.89544549	1.2214897	-0.655036	0.02140568	0.9495723	-0.3036378	1.73737941	1.13912644
	0.78213661	0.85171064	-1.5845593	0.3432211	0.75682759	-0.3708307	1.89680197	0.91231033
	-0.2929345	-1.3953433	-1.2021144	-0.7981141	-0.1968967	-0.6727649	0.33118448	0.15246263
	0.40125622	-0.1797454	-2.847611	-0.2234956	0.39644688	0.59895471	1.47411865	1.47451554
	-0.113543	-0.2825682	-3.5612249	-0.5380086	0.05651816	0.44638225	0.4558093	-0.0647356

Supplemental Table 2 Tab 1

	0.26149652	-0.0017841	-1.2599513	-0.0572551	0.52787801	2.05246303	0.57511219	0.79774042
	0.18133295	-0.0866294	-2.2849475	-0.8211646	0.21411087	3.87326511	0.28969035	0.37434932
	-0.6917127	-0.755211	-0.8082019	-0.3405429	-0.4936025	0.07616363	-0.6353996	0.2213591
	-0.4978063	0.03347186	-3.816611	-0.7913251	-0.3186239	-1.2284812	-0.0250968	0.58247297
	-1.0140733	-0.842376	-0.5921202	-0.5276719	-0.7828712	-0.5674029	-0.9262985	0.59853375
EC:2.5.1.18	-0.6171823	-0.7448733	-0.3280839	-0.3376695	-0.4775315	-0.8724674	-0.212748	0.88987994
	-2.0823259	-1.4042717	1.28263999	-0.2682784	-0.6284458	-2.0175069	-0.5216567	0.48631402
	-0.8994934	-1.2150368	-2.3490847	-1.0327182	-0.6480006	-2.0863776	-0.4931095	-0.1051315
	-0.1792154	-1.0397623	-0.9983361	-1.241666	-0.429517	-1.2907166	-0.3489365	0.42967821
	-0.4217235	-0.9457848	-0.7826435	-0.5334037	-0.5778203	-0.6927189	-0.2706526	0.49216124
	-0.5798438	-1.012498	-1.8129008	-0.6692334	-0.3776447	-0.5374427	-1.3086208	-0.0025662
	-0.4400677	-0.1410012	-3.3396421	-0.0610209	0.31294486	0.23192614	0.06822909	0.93528668
	1.54528992	1.29978886	-0.4938355	0.71735839	0.83025182	0.29634794	1.43308945	0.31824462
	-0.8730465	-0.8180085	0.281263	-0.2480364	-0.3783031	-0.6888296	-0.5527396	0.59418333
	-1.1792705	-1.2734081	-2.1529045	-1.1484896	-0.7249467	-1.1334345	-1.8533128	-0.4232473
ıotosynthesis - antenna pro	-0.4156805	-0.4730505	-4.3057993	-0.2676265	-0.0078279	-3.2632541	-0.8566983	-0.7536262
ıotosynthesis - antenna pro	-0.3087189	-0.3850684	-4.3634121	-0.1903453	0.05602183	-3.2605966	-0.7977425	-0.8115951
ıotosynthesis - antenna pro	-0.7021479	-0.6485952	-4.3320079	-0.4881274	-0.061946	-2.8952823	-0.8028495	-1.6354052
	-0.6643326	-1.3392189	0.47492346	-0.3437984	-0.3410563	-1.0078852	-0.3011427	-0.5965597
	-0.2326008	-0.7159626	-1.078077	-0.6731922	-0.3627419	-0.5014371	-0.2791008	0.24545784
	-0.383056	-0.0866561	-0.7878142	-0.1527821	-0.3153953	-0.2452172	0.40513602	0.72369883
	-0.8710851	-0.8218555	-0.3068198	-1.352019	-0.6310655	-1.3707735	-0.8241707	-0.6701892
	0.91353818	0.70422724	0.2581512	0.89580012	0.51597241	-1.0081723	0.40517392	1.09363682
	1.38143319	1.03182755	0.12070079	1.07321775	1.01117354	-0.6363847	1.2380806	1.01925783
	0.12517558	-0.7623476	-2.5272127	-0.4658068	0.09989762	-0.9038759	0.88998162	0.7699811
	0.94640939	-0.206765	1.19157105	0.14396873	0.6191837	-0.1360694	1.18786528	0.95830833
	0.24509819	-0.6624142	-1.6607133	-0.7326775	-0.3055142	-1.1351955	0.12995136	0.62924539
	-0.3338384	-0.6035131	-2.177695	-0.7884934	-0.1989279	-1.1678577	-0.4129879	0.51119188
	0.78231592	0.56100129	-0.0322248	0.34322579	0.28916942	-0.068207	0.91615549	0.36813007

Supplemental Table 2 Tab 1

	-0.6537896	-0.9005458	-0.0859637	-0.7406455	-0.6277972	-1.3397149	-0.4835992	0.30041007
	-0.0616079	0.91332098	-2.0322195	-0.1306434	-0.2429947	-0.3469483	0.16006534	-0.1293389
	-1.4521606	-1.1314277	-1.5608931	-2.6376011	-0.72881	-1.1761124	-1.8399498	-1.9943685
	-0.2494641	-0.8302006	-2.9013157	-0.6217601	-0.2384793	-0.5801035	-0.7459341	0.18681405
	0.03639566	-0.4213667	-0.309183	0.00400661	-0.0401708	0.55946349	-0.211678	0.11984545
	-0.3543527	-0.5720744	-1.4268732	-0.5933683	-0.3486962	-0.2040979	0.2883185	0.37309754
	-0.3282608	-0.5995478	-0.4493924	0.11019746	-0.060405	-0.8780339	-0.5354598	0.65149366
	1.34416597	0.14095532	5.46262708	0.91085292	0.52603187	-0.1118428	0.56895117	0.15366461
	-0.3317077	-0.4580179	1.05709288	0.60634299	-0.2596385	0.03658754	0.56485637	0.23238576
	-0.4352501	-1.3702352	0.69679012	-0.580115	-0.1762022	-0.1133994	0.08870335	-0.7254751
	-0.4814402	0.00031266	1.0083405	-0.5666753	-0.3183041	0.05644371	-1.4662587	0.29574587
	-0.2040467	0.3522003	3.83926619	1.2641763	-0.2064875	2.12605234	0.19176489	2.00559942
	-0.8325689	-0.2308787	-0.3919671	0.46192117	0.60680632	2.20277093	0.60905431	-0.1997818
	-0.9613097	-0.3763472	0.32498726	-1.1162243	-0.4027655	0.44287052	1.4254568	-0.354218
	-0.3349816	-0.3132621	-0.874895	-0.7538717	-0.5850786	0.51433625	-0.5781619	-0.4303466
	-0.3323536	-0.4684422	-1.4261196	-0.2653093	-0.0568329	0.36619111	0.69319232	0.02471798
	-0.6352739	-0.4567822	-0.5330833	-0.3185104	-0.1406893	0.79637587	0.52145157	0.28320932
	0.29686852	-0.4179194	-1.7003219	-0.21966	0.33334646	-0.1643218	0.8595451	0.14168036
	0.94725535	-0.2019555	1.19157105	0.14701807	0.62255525	-0.1360694	1.18786528	0.95830833
	0.12467656	1.00079724	3.94662873	1.1402772	0.31393137	1.82562673	1.52929074	2.89955899
	0.11754334	-0.8536083	-0.2491483	-0.8275925	-0.2372578	-1.1835913	-0.4078278	-0.120897
	0.20897956	-0.3628853	-1.8217999	-1.4838934	0.18956409	-0.8605893	-0.0514489	-0.1710725
	-0.2968754	-0.7233122	1.69405682	-0.6125857	0.13160444	0.07373668	-0.8183166	0.05527157
	-1.049775	-0.7251327	-3.9020778	-0.770327	-0.6555207	-0.3824699	-0.6410772	0.29312431
	-0.0554331	-0.6607454	-2.3812035	-0.8136006	0.12067992	-1.081255	0.11315365	0.82229757
ıotosynthesis map00195 Ph	-0.5601229	-0.7606946	-0.8827558	-0.4363394	-0.3476402	-0.9887901	-0.5449293	-0.0735585
	1.44954502	0.12127849	-1.8058918	-1.0980981	0.33303882	2.59934138	0.90668745	-0.2889188
	0.3327141	-0.5250896	0.13211046	-0.0341525	0.17830082	-0.4075313	0.92873128	1.57907377
	-0.2177668	-0.1356156	0.31569421	-0.5457428	-0.5649537	0.14859435	0.7125829	0.81293655

Supplemental Table 2 Tab 1

	-0.4675666	-1.1141564	-0.9203566	-0.1216079	-0.4914706	-0.9023012	-0.2064022	0.02107831
	-0.5112675	-1.0762868	-2.4130892	-1.1079785	-0.4278342	-1.3229529	-1.3178616	-0.1578881
	0.97086995	-0.2112031	1.16194996	0.11580814	0.61690198	-0.1514708	1.28192296	0.91817617
	0.23231993	-0.5219026	-0.4148422	-0.3204456	-0.7937282	-0.4165684	1.01249557	-0.0203842
	1.29685185	-0.2241211	0.15225328	0.41987708	0.66319545	0.01112681	2.21720669	1.6381797
	0.78250881	1.13632736	0.83097281	2.48121248	1.37884319	-0.9547353	2.897279	1.10527204
	0.97155345	-0.1895914	1.21192615	0.16468541	0.64151708	-0.113001	1.20816987	0.98146491
	1.52935252	0.52458832	-0.506671	0.94400946	1.02612269	0.26650836	2.47111664	2.14450105
	0.80282609	-0.6013399	-3.4921398	-0.1712444	0.34946249	-1.9552862	1.53866054	0.92624083
	-0.4579918	-0.4722827	-0.9703563	-0.4206478	-0.2145572	-0.4914686	0.55265644	0.80967839
	0.68248829	0.05923471	-1.0517939	0.31851343	0.6261031	0.21083539	1.73935106	1.6202675
	-0.7030886	-0.027789	-1.169925	0.10890138	-0.4196826	-0.2554327	1.63402332	1.49747445
	-0.4401196	-0.0549504	-1.3761539	0.6843854	0.05659817	0.52979239	1.09452007	1.13690368
ıotosynthesis map00195 Cy	0.97504034	-0.0865534	-1.1697171	0.34331153	0.641642	-0.3706728	1.79751853	0.84216278
	1.05633169	0.61902105	-0.5508113	-0.4822421	0.8266478	-0.4776366	1.19398951	0.93198001
	1.36715305	1.02870578	0.58504545	-0.8089112	0.51589158	0.40166117	2.34758107	1.22054249
	1.4085583	1.27003683	-0.7459062	-1.0882539	0.77584132	1.02657524	1.64382538	0.89056444
	0.22286764	0.5763419	2.78456977	0.97556917	0.91455018	1.62932721	1.41649235	1.52024918
	0.44063727	-0.9346746	0.32066782	-0.3485379	0.43246431	0.33845532	0.78766689	1.26745077
	0.78233368	0.02891634	-1.5849625	-0.2781544	0.51595242	1.43660899	1.44955032	1.60762867
	0.11240332	-0.4492648	-3.076472	0.85589382	0.0076207	-0.2776617	0.12764782	0.74258175
	-0.2176618	1.41583122	-2.169925	0.19120772	0.30452329	1.25380537	1.57514993	0.22057657
	0.45391573	-0.1948126	-1.2437084	-1.4138723	-0.8475174	0.45705863	0.36865009	0.45564455
	-0.7094484	-0.5231448	-3.63156	-0.4239126	-0.4485282	-1.8393183	-2.1767612	-0.5906539
ıotosynthesis map00195 Ph	-0.0836619	0.60759684	-4.4959363	-0.0890443	0.14401306	-1.2819536	-0.6548284	-0.7636096
ıotosynthesis map00195 Ph	-0.6470133	0.29046864	-4.9304059	-0.2737249	-0.156067	-1.5707029	-1.1861181	-0.8742762
	0.26446192	-0.2059598	-0.6875653	-0.2010399	0.44996279	-0.0321362	0.48045981	1.05070636
	-1.1181534	-0.7647424	0.18078631	-0.346383	-0.1673444	0.01697154	0.26066204	0.66586305
	-0.5733649	0.12355552	-2.9354255	0.55596176	-0.0196546	-1.1124362	0.49513842	2.36938295

Supplemental Table 2 Tab 1

EC:1.6.5.3	map00190 N/	-0.5422772	-0.6127394	-0.489328	-0.2782172	-0.3928033	0.06265222	-0.1506115	0.33017909
		-0.3165806	-0.4343425	-0.5345888	0.15224013	-0.1464976	0.19526771	0.14112977	0.91595154
		0.79193942	0.34518014	-1.1697409	0.40505207	0.10640488	0.97797936	1.2356918	1.66230014
		-0.9546881	-0.9328437	-2.6588413	-0.7118501	-0.3111991	-0.4670747	-0.9437588	0.25353953
		-0.2314766	-0.4492406	-2.0765466	-0.8411739	-0.122404	-0.5405971	0.55903813	0.44624754
		0.7305298	-0.4070483	0.95152871	0.42698177	0.32503649	-1.0727947	-0.0239849	0.1542748
		0.76590924	0.35654999	-1.6628501	0.46688892	0.51595207	0.49675221	0.61253601	0.8420893
		0.36245441	-0.20308	-1.0723989	-0.1475425	0.38849962	-0.0466126	0.26430253	0.2688276
		-0.9300948	-0.6534779	-3.344206	-0.9855221	-0.1851836	-1.9019534	-1.7063153	-1.1469731
EC:1.6.5.3	map00190 N/	-0.1434801	-0.8573198	-2.121727	-0.8471845	-0.04635	-0.2366426	-0.9359969	-0.3404159
		0.94725535	-0.2019555	1.19157105	0.14701807	0.62367736	-0.1360694	1.18786528	0.95830833
		0.07307439	-0.3082827	-2.048846	0.47695285	0.44151843	-0.1992897	0.01443686	0.57851318
		0.06241779	-0.0866647	-2.4327666	0.5708075	0.63649139	0.04426265	0.49792806	0.49747288
		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		-0.0219927	-0.0947627	1.21626818	0.0030524	0.1475875	1.92261306	0.68593205	1.17035068
		-0.0074389	-0.2804397	-0.4422368	0.34324497	-0.2742984	-0.7675087	0.55123251	0.86091514
		-0.2281993	-0.3254613	-2.1944463	-1.0931414	-0.2562145	-0.4460253	-0.4662514	-0.3851597
		-0.671791	0.36744707	-2.5168977	-1.6718282	-0.593448	0.69445455	-1.5316046	-1.1265445
		-0.3055097	-0.1862008	-1.1825805	-1.0611226	-0.1816864	-0.0381918	-0.2405599	0.54874988
		-1.3246991	-0.3498427	-0.7104254	0.37882238	-0.0855375	0.29214334	-0.1519865	0.64939426
		1.05510899	0.97853271	1.17775155	1.21135382	0.40232136	-1.0198146	0.85000821	2.75530638
		-0.071221	-0.6175842	-0.2902485	-0.6348731	0.06341505	-1.824232	-0.2456299	-0.7253419
		-0.5612325	-0.8395819	-1.3888711	-0.7271642	-0.4526696	-0.5437125	-1.2821243	-0.915982
		-0.8284839	-0.4112178	-2.1955199	-0.1536946	-0.2663614	-0.583126	-1.3132096	-0.4333374
NA degradation		-0.2241527	-0.3862157	0.44500195	-0.0302895	-0.1686499	-0.0309035	0.16506567	0.53699987
		-0.7748306	-0.9434369	0.1168149	-0.5047206	-0.6962886	-0.4302637	-0.2108567	0.15292198
		-0.4318334	-0.5333747	-0.2289506	-0.5887093	-0.27526	-0.0744876	-0.368	0.90060613
		-0.2305423	-0.2213758	0.81764958	0.13423688	-0.1170544	-0.6450239	-0.1866255	1.0548816
		-0.1232314	-0.3911727	-2.6102386	-0.2510548	0.20687237	-1.0508018	-0.2159146	0.5997275

Supplemental Table 2 Tab 1

		0.2664514	-0.6984515	-0.0963873	-0.2667036	-0.1222506	-0.5035734	0.36590994	1.32246145
		-0.3469988	-1.0126325	0.7918156	-0.2538791	-0.4853748	-0.9406267	-0.3997893	-0.3354297
EC:1.14.13.81		0.00243376	-0.4180564	-3.8677573	-0.2198429	0.08381475	-0.6118311	1.42906201	-1.180665
		-1.621628	-0.8837812	-4.0513985	-0.5344399	-1.0177747	-2.1308648	-1.6311161	-0.5212515
ıotosynthesis	map00195 Pl	-0.2073884	-0.6400573	0.80433646	0.14224258	0.21822943	1.37467124	0.4087174	0.17295433
		0.1448514	-0.3690822	1.56724786	0.12568	0.27893728	-0.1346998	0.69056626	1.53215298
		-0.2536366	-0.6227398	1.6016746	-0.3131056	-0.325711	-0.1989712	0.05099419	1.29155095
ıotosynthesis	map00195 Cy	-0.1181794	-0.1068443	-0.5452244	-0.1885932	0.25294451	-0.1144281	-0.4863199	-0.3368723
		-0.7155356	-0.616553	0.25093846	-0.015614	-0.4532165	-0.1931668	-0.0468156	0.93030353
bosome	map03010 Ri	0.55113328	-0.7664889	-0.7222431	-1.1750564	-0.2091069	-0.9426692	-0.1473602	-0.1631467
		0.24500058	-0.5112611	-0.6848232	-0.7028564	-0.3942375	-0.5466904	-0.36238	0.21518117
		0.60209207	-0.2394064	-1.5781653	-0.2919863	0.2590386	-0.4873339	0.17098339	1.22213035
		-0.5983605	-0.7988428	-1.8365817	-0.7062882	-0.2735904	-0.7386849	-0.5184162	0.76713074
		0.37933096	-0.4015457	-0.2292607	-1.0162682	0.03787657	-0.5117947	0.87852537	0.47712731
		0.53886609	-0.1076599	0.8145669	-0.4147015	0.11794126	-0.3499227	0.75200947	1.30043587
		-0.3587006	-0.6910786	-1.3697318	-0.2487839	-0.1885624	-1.5246794	-0.8285399	0.41846304
		-0.4276856	-0.7814646	-2.2901253	-0.6382078	-0.2099487	-0.7554272	-1.4032997	0.01157789
		-0.4829755	-0.7934556	-2.9732131	-0.5380846	-0.2316097	-0.7746987	-1.0027183	-0.0015717
		0.31445117	-0.5348396	-3.2055257	-0.9180313	0.06243437	-1.1388547	-0.7213437	-0.4946329
		1.05128577	0.17981868	-1.0495072	-0.5479979	0.52166747	0.15011845	1.42077051	1.58159354
		1.19932413	-0.4650982	-1.8702794	-0.4123088	0.49568758	-0.2811261	1.17233757	1.5544802
		0.55011833	-0.9153166	1.62364117	0.15616793	0.21777248	-1.1317604	0.04745864	0.25908498
		-0.0839527	-1.0239249	-0.8671457	-0.9786541	-0.444343	-0.9177525	-0.7308847	0.04958886
		0.98040293	-1.0155913	1.00987536	-0.4456234	0.19703	-0.7809114	1.75309663	1.53105413
		-0.482695	-0.7277909	0.51978764	-0.0253127	-0.3672562	0.09200037	0.13595923	0.85568604
		0.02515973	-0.7906144	-2.4327327	-0.9846642	-0.1603376	-0.9557142	-0.1386656	0.6301103
		0.78224538	0.57118856	-0.1697179	0.50673619	0.77901184	1.10313046	0.76972487	1.50807305
		1.34415908	-0.2568558	#NUM!	0.13683813	0.51597972	-0.7330307	1.79759195	1.10526579
		0.94725535	-0.2019555	1.19157105	0.14701807	0.62367736	-0.1360694	1.18786528	0.95830833

Supplemental Table 2 Tab 1

		-0.9348162	-1.1339147	-0.5091805	0.00968161	-0.6881608	-1.7399867	0.09122488	1.43020076
		0.07981453	-0.8544954	2.02543907	0.31553089	0.07926935	1.53052081	0.52461106	2.26400443
		0.43082354	-0.7708177	-0.955699	-1.008204	0.04103597	-2.366432	0.05913199	0.41925697
		-0.0116482	-0.4531027	-0.0224436	-0.2163073	-0.1850729	-0.4587963	-0.7069342	0.28650378
		0.67538214	0.11564469	-0.6160951	0.08396575	0.32151795	0.62923811	0.34883047	0.29390253
		-0.3051872	-0.0311498	-1.6722789	-0.1753469	-0.3870231	-0.4090064	0.26605309	0.81931055
		-0.0075522	-0.6571949	-0.7269623	-0.4601554	-0.2202294	-1.6205969	-0.3429792	-0.2609807
		-1.8368787	-0.0866589	1.56233745	0.87144878	-1.1316385	0.7131068	-1.128508	-0.0821869
		-0.7830858	-0.5058878	-2.5557652	-0.7261168	-0.6700051	-0.4928734	-1.1688505	-0.3945719
		0.57417391	1.0550525	5.17116271	3.10209689	0.03205297	0.19733464	0.78662655	1.11759713
		0.46137126	0.07561102	1.85697767	1.1054989	0.54465257	0.41411329	-0.5521402	1.37493307
		-0.1262734	-0.5624804	-0.8548416	0.36345847	0.08174196	-0.0748775	0.26031918	1.19421491
		0.42422958	-0.1241547	0.2172885	0.10222563	0.18899668	0.55324037	1.04453722	1.21202587
		-0.7387494	-0.8197315	-2.3573054	-1.0142705	-0.8580605	-0.6985691	-0.4847705	-0.1094624
		1.63794389	0.33233555	-1.0648716	-0.0379441	1.00730577	-0.3552372	2.02562895	1.19781853
		1.41677	0.16291961	-1.3761956	-0.2273057	1.00763015	-0.5227443	1.62627411	0.8324536
		-0.332913	-0.013192	-0.4943174	-1.0447621	-0.12078	-0.5913615	0.66383227	0.19219218
		0.56022023	-0.4488439	0.94602796	0.68463915	0.37890199	0.16016412	2.70929452	1.88978687
ıotosynthesis	map00195 Ph	-1.1940431	-0.2480597	-4.7519388	-1.2858885	-0.47278	-1.831012	-2.179362	-0.8616286
		0.18491772	-1.0341974	-3.2020974	-0.9128526	0.15266515	-0.6071165	0.49037551	0.51214812
		0.09650205	-0.7663967	-1.866481	-1.3079628	-0.1612271	-1.2142508	-0.8935243	-0.5072568
		0.94353443	-0.1720564	-3.2201006	-1.1928791	0.27537799	-1.2285218	1.08640237	0.23209595
		-0.4700402	-0.949283	-0.6894838	-0.6430577	-0.2125559	-1.080156	-0.1520251	0.6026446
		1.85750446	0.45758319	0.78441551	0.97551135	1.54833242	0.74470689	2.06690175	1.74894495
		0.10509545	-0.541481	-0.1201245	-0.184325	-0.2084997	-0.7275685	0.22687501	1.03627359
		0.40443673	0.56395537	1.15218833	-0.062526	0.21083033	0.63693898	0.59050916	1.51432217
EC:1.6.5.3	map00190 N/	0.65461067	-0.3143815	-2.2350008	0.09142941	0.52293064	-0.42939	0.2914892	0.80066688
		-0.1662813	-0.744031	-2.7492987	-0.3284564	-0.1595248	-0.205952	-0.3613736	0.14162227
		-1.356402	-0.1149315	-0.5484442	-2.4462382	-1.5699778	2.29397304	-2.2038369	-4.8927919

Supplemental Table 2 Tab 1

	-0.2348181	-0.7434212	-1.2305056	-0.2036802	-0.2559952	-0.7718599	-0.0498076	0.98342817
	0.52953234	-0.158552	1.61601876	0.12463272	-0.166462	0.52270984	0.0050877	0.42306244
	0.96826798	-0.1196641	-4.1170414	-0.4761147	0.21655356	-1.3826676	0.95637847	0.71173248
	0.1479624	-0.5006749	-0.4916387	0.19436766	-0.0546661	-0.8438354	-0.3851269	0.30475276
ıotosynthesis map00195 Ph	-0.3960875	-0.9946963	-0.4908762	-0.7154957	-0.4952802	-1.5176417	-0.5494643	0.32819222
	-0.881865	-1.3239984	-2.061012	-0.767056	-0.2957581	-1.9515596	-0.8329899	-0.7453611
	0.59053203	0.54179745	0.30300393	0.8094349	0.73489054	1.44029304	0.53050761	0.62331025
	0.81931166	0.39252253	1.25351709	0.17662041	0.45510081	0.95989997	0.88827563	1.36456976
ıotosynthesis map00195 Ph	-0.1702131	-0.2300873	-2.5625302	0.0206567	0.2020489	-2.5379434	-0.5699589	-0.162204
	0.64193059	-1.1072687	-2.5949973	-0.6025181	0.12766049	-2.6033904	0.49623081	1.23237465
	-1.3622994	-1.1251774	-1.5600626	0.01444859	-0.5367902	-0.4739545	-0.8049886	0.45278672
	-0.2176959	0.37903001	-0.4852443	1.57594739	0.13182442	1.32439741	1.11354242	1.90267177
	0.07009757	-0.7734912	-0.722253	-0.3577203	-0.358479	-0.4151263	0.02790339	0.09785169
	-0.5476637	-0.9063911	-2.4074636	0.20423716	-0.3415961	-1.0752401	-0.8325897	0.03195142
	-0.5708755	-0.9579198	-0.643633	-0.5744793	-0.2035963	-1.5192165	-0.3744896	0.97611732
	-0.1708762	-0.2121364	-2.9634341	-0.6455712	0.13090071	-0.0051136	1.24098885	1.18173164
	-0.0656047	-0.9028438	-0.9246187	-1.2417387	-0.3407268	0.61136039	1.30134317	1.08723895
	0.51821344	-0.4334739	-2.3396141	-1.0288246	0.06882516	-0.4817866	1.58839648	1.2571523
	0.8114119	0.27553418	-2.3903972	-0.3263544	0.41868382	-0.3034085	1.8829687	0.99807718
	0.578294	0.35582312	-2.1698547	-0.3752964	0.52600439	0.16397806	0.43941066	0.1051471
ıotosynthesis map00195 Ph	-1.1373355	-0.7379383	-3.4783063	-0.7187949	-0.3949503	-2.2734463	-1.1537773	-1.2286415
	-0.4834495	-0.3949886	-1.3351581	-0.4529794	0.01297679	-1.6580893	-0.6331269	-0.8062343
	1.35419601	0.07310114	-1.4249166	-0.1112646	0.65446753	-0.2463038	1.21530629	0.88058926
	2.81304753	1.25449698	-0.491562	1.22320024	2.17774131	0.93187143	2.80792519	2.32770592
	-0.5656854	-0.3024697	-0.8479087	-0.6094269	-0.0689566	-0.2927119	0.83137002	1.41089666
	0.49850229	-0.6127344	0.23023005	-0.9587719	-0.1360863	-0.6178699	1.21250549	0.88162085
	-0.0116939	-0.8908264	1.04222635	-1.2900906	-0.3032748	-0.7256738	0.93239945	0.69351396
	-0.1931557	-0.1096971	0.18767311	-0.9960914	-0.230797	-0.6638391	-0.575792	0.10128988
	-0.6354741	-0.4328421	0.55712871	-0.4983909	-0.0520284	-0.3563858	0.30048698	0.66423537

Supplemental Table 2 Tab 1

-0.4921276	-0.7441799	-0.7149322	-0.736745	-0.1707645	-0.8225147	0.3300357	1.0551516
-0.6542136	-0.4527823	0.276088	-0.0164678	-0.4263885	0.31040537	-0.4166353	0.53871205
0.34585109	-0.5958024	-1.20118	0.13601447	0.00637974	0.08267293	-0.3054408	1.00301111
-0.7207913	-1.1975536	-1.446845	-1.4477392	-0.4368671	-1.105347	0.21330362	0.12229715
-1.0190588	-0.3039428	-1.6672075	-0.7875166	-0.7523052	-1.7858041	-2.0629197	-1.4286349
-0.5478552	0.07839555	-1.8282342	-0.4185026	-0.2956682	-1.1696052	-1.2993776	-1.1063559
0.19866612	0.37417795	-1.8459101	0.09726265	0.16413249	-0.9910543	-0.3202011	-0.5661181
-0.3374536	-0.014159	-1.6570933	-0.3503876	-0.4160697	-1.0718141	-0.7621091	-0.6654982
-0.4534373	-0.6507479	-0.7585414	-0.3900112	-0.4334185	0.00843288	-0.3237978	-0.1765917
-0.8066518	-0.8205422	-0.0089148	0.19384372	-0.7310298	-0.706408	-0.7271245	0.19166928
1.45060505	-0.4622747	-2.8478429	-0.6568161	0.46583621	0.25363235	2.02349314	0.74893187
1.52044208	0.27234352	0.69724459	-0.0099041	0.50217905	-0.0515799	0.82471218	0.7860796
0.11932657	-0.3346113	1.07422498	-0.6719753	-0.384022	0.45460026	1.90714067	0.78007293
0.48474299	-0.0866569	0.48367384	0.18169786	0.16022753	0.13902715	1.73758051	1.92654342
-0.0338838	-0.6804443	-0.6569117	-0.4323272	0.02091503	1.14717245	0.32432652	0.28156239
0.97923904	0.98917129	0.29596587	0.41170539	0.74212001	1.39410887	0.30104232	0.23220669
0.32945999	0.87150724	10.6974396	5.67627826	-0.3178412	0.27252362	0.01057691	0.71282679
0.32622601	0.82291945	9.41515316	4.49994942	-0.2011133	0.43466126	0.15255417	1.53025573
-0.463831	-0.5023811	0.38421237	-0.2692713	-0.3072277	-0.3728248	-0.3628299	0.43481665
1.29554993	-0.5703604	0.1469548	0.50442309	0.9136155	-1.1596669	1.34959658	1.86552089
1.56090791	1.13646811	3.0010162	1.48158786	1.05739654	1.04483764	3.20032501	2.22123018
0.94640939	-0.206765	1.19157105	0.14396873	0.6191837	-0.1360694	1.18714012	0.95830833
-0.7689862	-1.205571	-2.178866	-1.1435219	-0.6854623	-2.040344	-1.5232989	-0.4775376
0.44307936	-0.4910693	-2.0766271	-1.0029316	0.1496512	-0.7333358	-0.4410162	0.05622792
-0.4188703	-1.1862086	-1.661542	-1.3207637	-0.5164367	-1.7751431	-0.547517	0.10515448
-0.1724783	-0.5595586	-1.1034005	-0.6549598	-0.4414688	-0.909279	-0.6048211	0.19566986
-0.1789646	-0.8545018	-0.1869933	-0.0490501	-0.4169208	0.16764013	0.49867063	1.45428423
-1.0436529	-0.0322131	-0.2456467	1.03743096	-0.1308066	-2.1750257	-0.5810225	1.33017374
0.42234933	0.22641653	-0.7223176	0.6910733	0.57428318	-0.4151612	2.06977944	1.5684758

Supplemental Table 2 Tab 1

	0.33994036	-0.0794051	-0.0144274	0.50833146	-0.03365	0.49574066	0.32512909	0.87666905
	-0.5266525	-0.9225448	-3.5003196	-1.3092956	-0.0400359	-0.7685246	-0.2427918	-0.168352
	-0.0760481	-0.7862678	-3.8160068	-1.2537738	0.39639798	-0.8037289	0.42012107	0.39191863
	-0.3422757	-0.8777546	-2.4022006	-1.1381334	0.23798576	-0.6091804	-0.5528758	0.18878795
	-0.1505745	-0.5646796	-1.0628903	-0.6493971	-0.0689863	-0.4862441	0.259292	1.02916894
ıotosynthesis - antenna pro	0.07748385	0.09950783	-2.7724659	0.30660237	0.17567633	-1.6826216	-0.605733	-0.9330875
	-0.6280868	-0.4909042	-1.667504	-0.573918	-0.1709842	-0.323624	-0.4386625	0.26841045
	-0.2259644	-0.0424676	-1.6436479	-0.0475959	0.19406304	-0.1077188	-0.5073691	0.1431176
	0.22348248	-0.3250872	-2.3931034	-0.4947231	0.16334846	-1.0393981	-0.3323555	0.00623948
	-0.2768647	-0.6548213	0.64086005	-0.0493997	-0.5881052	-1.2622488	0.15000333	0.84323806
	0.83446847	-0.1016114	-0.3183883	-0.0866985	0.39328942	-0.4681755	0.68255228	0.7626333
	0.82669703	-0.3678492	-2.3624118	-0.2507386	0.42287241	-0.2832814	0.8970311	0.92957505
	0.16307174	0.32835902	-1.2546086	0.08679839	0.21266424	-1.4703458	0.32436092	-0.7511189
	-0.0374181	-0.1310719	0.5996696	-0.0414895	-0.1314233	0.33638327	0.29556815	0.92183264
	-0.140351	-0.4882454	-0.2318681	-0.2609316	-0.0284624	-0.4604027	0.16969116	0.55877233
	-0.2678504	-0.7439808	-1.1082966	-0.4094569	-0.6152475	-0.6591149	-0.461948	0.38465021
	0.07179274	-0.3497179	1.1361015	-0.6250773	-0.5898498	0.47426207	1.84809904	0.74255498
	-0.2371091	-0.3434863	-0.2011891	0.15506382	-0.1081972	-0.3098005	-0.4849531	0.90506651
	0.04510827	-0.879167	-1.8496621	-1.0862958	-0.1840296	-1.0307175	-0.0480867	0.19057378
	-1.0354676	-1.2283291	0.9449709	-0.6839616	-0.980259	-0.2417766	-0.3772673	0.66098407
	-0.813512	0.01121448	0.18225918	-0.419254	-0.0517862	0.41105044	0.25792257	1.07317829
ıotosynthesis map00195 Ph	0.06177816	-0.0725543	-2.9806156	-0.0027837	0.37492995	-1.6022418	-0.634356	0.41163151
	-1.4985083	-3.1096079	0.07638575	-2.5915295	-0.4734698	-3.1112246	-0.0323663	-1.0652183
	-1.5451664	-2.4074844	-0.0574969	-1.9645836	-0.7877179	-1.5566816	-0.2004957	-0.6015175
	-2.111238	0.29765467	-0.8659585	-0.0739292	-1.246934	3.14565798	-1.5752768	-1.995134
	-1.4614046	1.54744128	-1.6860473	0.95610589	-0.9551741	3.35279991	-1.3952447	-1.711123
	-0.1801759	0.08773958	-0.4392063	-0.1564005	-0.3774209	0.67421329	0.00219206	0.65476387
	-0.2311333	0.77927733	-2.3489881	-1.9975504	-0.07067	-2.268291	-0.2487483	-0.2627824
	-0.7558739	0.34903604	-2.597126	-1.987927	-0.6420062	-1.8445201	-1.1557073	-0.8227025

Supplemental Table 2 Tab 1

		0.27449884	-0.2785482	-2.0925262	-0.6985429	-0.0062188	-0.7700371	-0.0039231	0.57463084
		1.47064845	0.6618057	-2.2286917	0.15882947	0.8221032	0.43384154	1.22893461	1.07601327
		-0.0555425	0.04509634	-1.7065839	-1.1078535	-0.3058016	-0.6840824	-0.3759159	-0.553519
		-0.5567501	-0.7434254	1.16059642	0.56366423	-0.303514	-0.0348915	-0.1533349	0.76737485
		-0.5722259	-0.6632955	0.57253691	0.54078131	-0.1953875	0.01615066	-0.5983138	0.44221955
		-0.6170427	-0.5614072	0.31170898	0.49268867	-0.1921766	-0.1793374	-0.5736575	0.28299275
		-0.3636504	-0.1883015	1.33968437	0.40098149	-0.0424623	0.30608356	0.23959871	1.36897963
ıotosynthesis	map00195 Ph	-1.0250167	-0.2121622	-2.1694714	-1.1712867	-1.3584281	0.29222612	0.44962828	-0.894843
		0.14876428	0.05298654	-1.0678334	-0.6219492	-0.0017794	-0.7358429	0.14828581	0.68619155
		0.15966869	-0.4577613	-2.246079	-0.4086366	-0.0355658	-1.0798936	-0.1099294	0.41612949
		-0.5380798	-0.4696609	-1.2958626	-0.3655439	-0.4313374	-0.2330141	-0.2014873	0.54136263
		-0.0017543	-0.3596828	-3.0078024	-0.559481	-0.2366474	-0.4156746	-0.4870194	0.1014575
		0.09040548	-0.1846133	-1.5136658	-0.3792172	-0.266731	-0.1609297	0.30770086	0.2766933
		-0.4691554	-0.8356662	-2.2905857	-0.003134	-0.5351729	-1.6311007	-0.8170584	0.0199785
		-0.4115308	-0.7425847	-1.926051	-0.3860233	-0.4725254	-0.4827215	-0.467855	0.586447
		1.1539101	-0.0332324	-0.2829258	0.37556448	0.68617416	0.51604699	2.20326873	1.61245551
		-0.308865	-1.6716294	-2.392592	0.21392789	-0.107101	-1.0626137	1.44951464	1.03471836
		-0.7506846	-0.4818971	-0.3347629	-0.1813614	-0.3238041	0.29589649	-0.9924134	-0.333478
bosome	map03010 Ri	2.03428463	0.24225903	0.61492337	-0.1972977	0.67371102	-0.358295	1.59190491	1.38023435
		0.64332174	0.09929396	1.4152616	-0.2589577	0.05368427	0.26912291	0.11615302	0.11276778
		-0.6266335	-0.9204469	-2.4100864	-0.7046481	-0.308188	-1.8758462	-0.9521193	-0.0229919
		-0.2298614	-1.3665223	0.649747	0.10376718	-0.4459895	-0.1604382	1.26020524	2.70421864
		-0.0807882	-0.4306034	-1.9660568	0.62803122	-0.3439168	-0.4765386	1.20784124	3.2307038
		0.15622671	0.45177685	-4.3925641	-1.2623193	0.06933781	0.16768985	0.17141774	-0.3098321
		-1.3148839	-0.5599764	-4.3396599	-1.9786725	-0.7914552	-0.3415858	-1.8728485	-1.0772825
		0.86953403	0.06952355	-1.5764491	-0.0515783	0.69189273	0.34119896	1.43252518	0.2980693
		-0.1106728	-0.8324258	-1.9457075	-0.9098773	-0.1645526	-1.5294649	-0.145678	0.75978226
		-0.2315005	-0.6320901	-0.9066632	-0.6001603	-0.6408933	-0.6021037	-0.5187192	0.47541353
		2.32552285	1.73447826	-0.4914381	1.25411592	1.73473577	2.04430323	3.02579817	2.42709159

Supplemental Table 2 Tab 1

	-1.3876397	-1.0002486	-0.2679801	-0.2099847	-0.4910535	-0.7512584	-0.2944329	0.20823784
	-1.2344973	-0.9503582	0.36231575	-0.2573737	-0.6137374	0.06364217	0.52887559	0.33309327
	0.50731809	-0.8400735	0.19146319	-0.356706	0.08438051	-0.2622985	0.21543016	0.71414501
	0.94725535	-0.2019555	1.19157105	0.14701807	0.62367736	-0.1360694	1.18786528	0.95830833
	-0.713639	-0.3845193	-0.5872508	-0.6462945	-0.49152	0.81702684	-0.4424818	0.33497572
	-0.8697773	-1.1815242	-0.1599018	-0.5726624	-0.8482933	-1.4702926	-0.6905621	0.34245173
	-0.2165424	-0.704609	-0.0411274	-0.3964144	-0.397033	-0.9557323	-0.3302662	0.58785495
	-0.1740021	-0.6174316	0.52167676	-0.2204581	-0.2435392	-1.0337395	0.33398521	1.28956932
	0.53705405	0.04340629	-0.5577943	0.21824842	0.41608676	0.31071408	1.10456776	1.75805401
	0.42505081	-0.3071656	-0.958714	0.40335633	0.38980831	0.1081774	1.03487993	1.80530707
	-0.5426769	-0.6401545	-2.6132995	-1.6067012	-0.4015574	-1.020845	-0.2518457	0.50953069
	1.55987152	0.78793472	-0.5845184	0.48059623	1.64129544	-0.3707152	2.07739456	1.32724843
	-0.0250791	0.04823488	0.02819876	0.16267939	-0.0085537	-0.02082	0.18806646	0.64214757
	0.69899446	-0.0195262	-0.6915778	-0.326579	0.17998057	-0.6337518	0.51369039	0.41331764
	-0.3072998	-0.2958613	1.27115956	0.1577444	-0.4193772	-0.170711	-0.0309024	0.67277183
	-0.6132413	-0.2695251	0.8746882	0.20267766	-0.3245373	-0.2200468	-0.4552704	0.80294517
	1.14487477	0.63871114	-0.9555597	0.1189585	0.79640543	-0.1238271	1.70822479	2.64451283
	-0.7138769	0.09703337	-0.7953285	0.17333072	-0.4824195	0.44587744	0.13811651	1.24641475
	-0.2494861	-0.4989716	-1.4673618	0.07533982	0.19628154	-0.5904194	0.31206443	1.44167983
	-0.3320815	-0.9935799	-3.0765009	-0.4932438	-0.0690471	-1.1077116	0.44075418	1.08900341
	0.36721501	-0.0628133	-1.1698579	0.45422487	0.83255564	-0.0878403	0.66814024	1.69802202
	1.36635069	-0.054928	-2.6437093	0.05461095	0.61887568	-1.3140927	0.35376465	0.36817228
	-0.7144292	-0.8975411	-2.2594134	-1.4640189	-0.47567	-0.0970387	-0.610015	-0.389648
ıotosynthesis map00195 Pl	-0.8946654	-0.8661336	-2.1312439	-0.7843853	-0.7895019	-1.172708	-1.9587834	-1.1762033
	-0.4539104	-1.0594325	0.0847141	-0.4786052	-0.5028692	-0.7099728	0.55783827	0.85850154
	-0.1358774	-0.0369711	-3.1274554	-0.3356937	0.13893868	-1.4050701	-0.6144962	0.19512907
	0.24505171	-0.5110865	-0.672224	-1.1118144	-0.0536251	-0.4885668	1.15062868	1.50955569
	-0.277818	-0.4021656	-0.1826625	0.1208715	-0.227252	-0.1264703	-0.1448076	0.9702099
	-0.8994901	-1.0434965	-2.0440161	-0.6831216	-0.1174424	-0.6078266	0.57509918	1.27025206

Supplemental Table 2 Tab 1

0.26318865	-0.0255425	1.56239596	-0.1812414	0.2047401	-0.3823637	-0.0919108	0.06530687
-0.1540486	-0.5446057	-2.8324568	-0.5124291	0.05655618	-0.0641505	0.50370748	0.90883859
-0.3341671	-0.4433596	-0.7444233	0.37589019	-0.4580196	-0.3435548	-0.3447097	0.61007495
-0.0380211	-0.4677891	-1.046339	-0.6160663	-0.165832	-0.7186816	0.22717432	0.98427946
-0.8119713	-0.487169	-1.1055961	-0.1526386	-0.8792996	0.13949627	-0.2404573	0.25063376
-0.0221952	-0.3319162	0.45223721	-0.1579263	-0.2221624	-0.7408903	-0.6106774	0.24771781
0.45734595	0.08639582	1.03744804	0.81653087	0.01345736	1.15647279	0.91947561	2.06934462
-0.0758768	-0.1548332	0.52216462	0.22297393	-0.5228852	0.76674368	0.368644	1.67523824
-0.7009727	-0.8766251	-2.0860595	0.31828901	-0.0365611	-0.7480132	0.23805732	1.5181633
-0.9313959	-0.5293339	-1.6083901	-0.4444298	-0.406173	0.01539912	-0.8957302	-0.2043634
0.40118194	-0.2656487	0.01616443	-0.181678	0.16922501	-0.3351642	0.42307327	0.97302771
-0.4820107	-0.7323915	2.56836749	-0.792848	-0.5584695	-0.5745538	-0.2684395	0.17765833
0.48159694	0.77748122	-0.5292502	0.99936934	0.03756423	-0.5213714	0.64114113	2.38788461
0.71261394	1.06306854	-0.4461307	1.3355969	0.08565943	-0.3989066	0.55055955	2.51120766
0.1582249	-0.4482769	-0.5959753	-0.5076805	-0.1019916	1.67600147	-0.8347305	1.95252126
-1.3391291	-1.2883054	-0.1387195	-0.6693224	-0.7665549	0.62922135	-0.7785202	-0.2754691
-0.3572002	-0.7310006	-1.3690208	-0.713681	-0.1629345	-0.0395625	-0.9417004	-0.2842673
-0.0193812	-0.7632172	-3.0406413	-0.3621825	-0.0747844	-1.2650032	-0.5683329	0.84695822
0.86324453	-0.0959396	-3.284963	0.13468072	0.76975539	0.04426927	1.28122656	1.06294973
-0.5991139	-0.2012057	-0.9628166	-0.4793311	-0.15159	-1.1619151	-0.8176386	0.08477614
0.77952837	-0.1304495	-2.2024055	-0.0313538	0.2959452	-0.7650974	0.41323988	0.81863509
-0.1343084	-0.5286721	-2.7546435	-0.1627721	0.09364194	-0.7205282	-0.0950028	0.61468839
-0.7001251	-0.475849	-1.5244542	-0.0463553	-0.4318664	0.04178953	-0.2046436	0.58367042
0.01060692	0.98369727	0.90068322	-0.213067	0.25821415	0.18177677	1.06049293	1.50202584
0.40475798	-0.1741254	-1.9066566	-0.6001397	0.48321459	-0.0431864	-0.115467	0.33479542
1.0680075	0.06525435	-1.491591	-0.270814	0.4715807	-0.1902506	1.37786627	0.67942554
0.49176891	-0.5074407	-1.8896013	-1.0178193	-0.0854728	-0.9621817	0.29912731	0.34945378
1.10453645	-0.5079257	-1.4944145	-0.7755829	0.55508493	-0.5919172	1.22683719	0.69133698
-0.743492	-1.0165442	-1.0202003	-1.1132575	-0.3920427	-0.8288112	-1.03496	-0.1914445

Supplemental Table 2 Tab 1

	-0.7446044	-0.5950189	1.40886796	-0.1922507	-0.421098	-0.0852686	-0.4546164	0.30317335
EC:3.2.1.4	-1.0616747	-0.994721	1.33544576	-0.097621	-0.7372759	0.21770059	-0.0511596	0.06072873
	0.19770475	-1.1523792	-2.3176643	-0.9300114	0.07337722	0.4143469	0.1801733	0.72272126
ıotosynthesis map00195 Pł	-0.31499	0.18851209	-2.5723374	0.02183506	0.12253409	-0.5984868	-0.0534183	-0.924009
	0.16918051	-0.4695998	-2.5478971	-0.7833963	0.10207507	-1.3884976	-0.2674739	-0.1547931
	0.76343976	-0.2850677	-3.2286198	-0.7577683	0.45411223	-1.9452905	0.12048271	-0.022768
	0.61446287	-0.234686	-3.7255467	-0.8699984	0.39990466	-0.316211	0.46641675	0.46516277
	1.01314519	0.15530468	-3.5618172	-0.3048546	0.35080221	-0.1882077	1.38575971	0.5287937
	1.26766611	0.31021837	-2.9073625	-0.1920791	0.76247884	-0.7540503	1.46909208	0.52910596
	-0.2227103	1.56260146	1.13383891	1.15370557	-0.0925318	0.63214568	0.45454558	0.61491281
	-0.5118542	-0.497649	-0.3186727	-0.6476253	-0.1664115	0.02242442	-0.782263	0.15745012
	0.07367813	-0.0239316	-2.6171266	-0.6094176	-0.3034671	-0.0812514	-0.2372985	-0.2167814
	0.90502082	-0.5720904	-2.4756609	-0.7331249	0.09680324	-1.7421558	0.6417869	0.96616985
	0.02938883	-0.710949	-1.3854767	-0.5744357	0.08455817	-1.0971156	-0.4506311	-0.4027238
	-0.20109	-0.7936489	-1.6787167	-0.6488979	-0.5235476	-0.8432847	0.07530374	0.82643691
	-0.9051606	-0.8397533	-1.6981509	-0.5528562	-0.7005966	-0.4703191	-0.4026649	0.74668103
	-0.0664086	0.06033053	0.85516901	-0.5667572	-0.3295039	0.37870535	0.18356216	0.47236297
	0.26659956	-0.6904706	-1.8514483	-1.3147281	-0.0706891	-0.8915699	0.25474741	0.0799422
	-0.7032983	0.38729551	0.2452765	-0.5635117	0.05660728	-0.1484742	0.9596138	-0.1580876
	-1.1930875	0.08904273	-4.872347	-0.7857419	-0.5314032	-1.5943674	-0.9213819	-1.0999696
	-0.9181443	0.07724306	-4.9856835	-0.7648231	-0.5209581	-1.4437116	-1.0098579	-1.060514
	0.97507262	0.23525773	-0.1695171	0.60625386	0.44879505	0.21410873	1.51375694	1.10518224
	-0.3837346	-0.757483	-1.8014042	-1.0798273	-0.4111633	-0.9132438	-0.2861853	0.62411502
	-0.5365568	-0.072386	0.19046562	0.01593593	-0.1268894	0.55561367	-0.5290753	0.87194685
	-0.6610715	-0.5967725	1.89088935	-0.7071114	-0.1155112	1.05807866	-0.7813911	-0.1358652
	-0.1640516	-0.2976955	0.92979234	-0.2183891	-0.0743508	-0.285044	0.9184106	1.02435843
	-0.4775613	0.27184833	1.2173583	0.90591311	-0.0589082	0.81960689	1.24391783	2.12355632
	-0.5310058	-0.8785099	-1.7436943	-0.9731703	-0.6414868	-0.9176808	-0.5474285	0.16271426
	0.29691259	-0.208238	-0.1479738	0.4741488	-0.167665	-0.6250551	0.26767691	-0.0111141

Supplemental Table 2 Tab 1

	0.54293362	0.93011751	-1.7931577	1.08630955	0.61598107	0.66260955	-0.0225628	0.38774184
	-1.7767872	-1.431622	-1.6861466	-0.5103501	-0.7159381	-0.9887425	-0.927401	0.80508273
	-0.6386263	-0.789678	-0.3682499	-0.0151746	-0.3178335	-0.745138	-0.2564954	0.73518335
	0.58419415	-0.5990716	-0.8490116	-1.3749575	-0.0607857	-1.4452165	-0.1063399	-0.1819483
	0.19640647	-0.8605665	-1.2506376	-1.0118508	-0.1511754	-0.6337987	0.74403882	1.02652943
	-0.3443311	-0.6716027	0.44327451	-0.4662014	0.04592636	-0.4733481	-0.1315218	0.59260215
	0.01754309	-0.4328765	-1.2898884	0.15889269	-0.1779134	-0.8716683	0.86199887	1.36015284
	0.45298639	0.30234475	-0.5848234	0.19126532	0.83413702	0.14380261	1.58363301	1.26737761
	-0.9934175	-0.778031	-0.473003	-0.0121258	-0.9634412	-0.3351725	-0.843371	0.20938348
	-0.2231598	-0.3071162	-0.6631025	-0.3093466	-0.1433768	0.59656531	-0.3945077	-0.3007389
	1.06085646	-1.2242248	0.7354456	-0.3170701	0.03676154	-1.6078634	0.51255068	-0.1631081
	-0.7244369	-0.8003418	0.21416254	-0.8126853	-0.5066231	0.72562909	-0.7380602	-0.6279417
	0.16255551	-0.7662888	-1.0808901	-0.6295225	-0.1393742	-1.0564983	0.63672467	1.07037806
	1.02935362	0.40934013	-0.2261401	-0.0352641	0.76558555	-0.2986526	1.87465232	1.57465715
	0.01307393	-0.9367868	0.84311074	-0.1890733	-0.0393143	-0.4593237	0.67302246	0.17223878
	0.05614421	-0.3928021	0.44614714	0.19265592	0.39215346	0.29908966	-0.0382482	0.62626167
	-1.278094	-0.9935605	1.1647065	0.82331433	0.10890884	-1.2543345	0.47107728	1.37339721
	0.11170156	0.36479703	1.13904025	0.14686803	-0.6149807	3.00848101	-0.8254328	-0.1513433
	-1.0269071	0.11365599	-2.4257405	-0.2413237	-0.2144495	-0.4934439	-1.3499166	-0.2921458
	-0.833364	-0.6869114	-0.9066742	-0.1734868	-0.1426344	0.61395927	-0.0679817	0.08475436
	-1.2266945	-1.1076589	-0.4644455	-0.4909789	-0.7945252	-0.6718444	0.15312566	0.39751106
	0.31325036	-0.8160305	-1.0135929	-0.786003	-0.0066506	-0.7099608	0.23878248	-0.171698
	0.99925948	1.19979504	-1.5418661	1.36922513	0.65237035	1.12394279	2.01849013	1.37354341
	0.49848632	0.5762833	-0.5849625	1.30666134	1.41406369	1.68805599	1.51368054	-0.1579282
	0.53823287	-0.4456258	1.57366674	-0.127787	0.17989543	0.2812888	1.46583751	1.06593297
	0.65072124	-1.0151308	-2.0982249	-1.0411273	0.22373503	-1.3954613	0.37894896	0.24487091
	-1.3943099	-1.2334826	1.17682832	-0.7040168	-0.6184148	-0.51759	-0.4883383	-0.1363194
EC:1.3.7.5	0.15536206	-0.9770419	-2.2883625	-1.1233087	-0.2459316	-0.9228876	-0.0313873	-0.7109495
	-0.0251706	-0.8642504	0.73713571	0.02139033	0.05671439	-0.2552296	2.05623723	1.22069013

Supplemental Table 2 Tab 1

	-0.3646102	0.03237297	-3.5395156	-0.6659342	-0.5755911	-1.002857	-0.456308	-1.4341351
	-0.2448736	-0.6101761	-1.1697906	-0.5952116	-0.6090825	-0.6464565	1.40323114	0.01904517
	0.22787235	-0.3117401	-1.9888746	-0.6762336	0.11547722	-0.0945116	1.10558893	0.1982594
	0.67528678	-0.1861013	-0.7913866	-0.6566219	0.09206561	-0.5226782	1.34766657	-0.0737321
	-0.1390162	0.00189383	0.07339824	0.68335787	-0.1973573	0.47182064	0.3373929	0.53381193
	-0.2501321	-1.608873	-0.2521779	-0.7840115	-0.4352883	-0.5649283	-0.1266672	-0.138785
vo-component system	-0.1506595	0.06533964	-1.5323979	-0.0611639	-0.0259402	-0.2187173	2.06815522	-0.0057581
	-0.6099934	-0.4910282	-0.98904	-0.7562175	-0.6024261	-0.370766	0.17073067	-0.0647528
	0.8623019	-0.4088894	-3.4899088	-0.3934731	1.46252365	-1.4709078	2.20726944	-0.2168903
	1.48594122	1.0833214	-1.5847596	0.8892872	2.9145734	-2.6924475	0.80777515	1.08092553
	1.05029998	0.47531249	-2.3915903	0.76865469	0.86395044	0.69643375	1.990193	1.71289063
	-0.7031307	0.66336382	-0.6749717	-0.946234	-0.0453079	0.88863087	-0.1838768	-0.0323329
	2.1447001	1.20271494	-0.1701471	1.82851953	1.71944783	0.85134903	2.23791832	1.93504164
	-0.4535907	-0.3338657	-1.2103956	-0.148593	-0.0048366	0.30058414	0.99008958	0.72530092
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	-0.2881134	-0.4085893	-3.491568	-0.6375735	-0.0048742	-0.107705	0.47556342	0.95313393
	1.08270124	-0.1043242	1.21405429	0.25198751	0.75455346	0.11866795	1.41860169	1.01833871
	1.27261895	-0.330599	1.26324757	0.4543008	1.01384164	-0.2927546	1.75919805	1.04791833
	1.88168291	2.32838552	1.15213792	1.92812676	1.86364209	2.04414895	4.43295941	2.22056141
	-0.4419157	-0.9575524	-6.7583328	-2.651651	-0.3727907	-2.6272802	-1.7262344	-1.2142126
	-0.0401758	-0.1068474	2.43511679	0.02130663	-0.2616237	0.85159438	2.31802683	1.24805905
	-0.3469365	-0.7730935	-2.1769882	-0.6421258	-0.0010335	-0.1042385	-0.9211212	-1.5947568
	-0.4916951	-0.7846452	-1.6324437	-0.6532141	-0.2558271	0.12759166	-0.8260433	-1.0346216
ıotosynthesis map00195 Cy	0.07446788	-0.4201013	-1.754696	-0.6161031	0.43240093	-1.8886225	-0.4952876	0.3373125
	0.35347815	0.39881523	-1.9068906	0.98490592	0.73477249	-0.1073835	1.16019766	1.15255085
	-0.7192745	-1.0342174	-1.7547169	-0.0090597	-0.2931927	-0.586486	-0.2971873	0.07817937
	0.33480162	-0.2565485	-1.1696629	0.0213351	0.60910714	0.04422466	0.66819786	0.91705978
	0.30862307	0.13152875	-2.0296155	-0.0855792	0.27472642	-0.8289741	0.99749351	1.75722102
	-0.7150547	-0.9844116	-0.7176017	-0.8169081	-0.5646686	-1.3148052	-1.0596129	-0.2659316

Supplemental Table 2 Tab 1

	-0.3109985	-0.5157218	0.81761511	-0.004088	-0.1988364	4.35417833	0.68082798	0.33116011
	-0.0180613	-1.0320843	-1.1506346	-0.6730629	-0.4244533	-1.7142673	-0.6463057	-0.5807243
	0.39640883	-0.3091708	1.85580855	0.30143497	0.00399639	0.76044641	1.05311319	1.46770555
	-0.280441	-0.8253383	0.65075749	-0.5275822	-0.2033944	-1.0590633	-0.1807375	0.52402199
	1.46682233	-0.2121218	-1.5843283	-0.8630444	0.51599962	-0.7334812	2.21894501	1.57903027
ıotosynthesis map00195 Ph	-0.3886498	-0.3831844	0.83707587	-0.0523259	-0.0007855	0.87391137	0.44080263	-0.4158801
	-0.5382767	-0.8898074	-1.8427267	0.34073828	-0.0986213	0.82148846	-0.3468972	1.48495517
	1.13325616	-0.3456572	0.67233338	-0.1039199	0.49293368	-1.3057466	1.19966873	0.82524857
	1.17721982	-0.6454649	-0.6386316	-0.6402302	-0.3065983	-0.5359605	0.35083796	0.28261714
	-0.1352396	-0.2513215	-0.0477354	-0.4661974	0.05655889	0.11668067	0.27769709	0.14696664
	-0.0496766	-0.8080651	-2.5245851	-0.5341024	-0.0445543	-0.6187104	0.1246562	0.62979267
	0.14486426	-0.1861898	-1.4916228	-0.5878734	-0.0006776	-0.9318918	-0.09658	0.45459444
	-0.3781717	-0.4438096	-1.0600665	-1.1391189	-0.3210073	-0.198031	-0.356911	0.1302459
	-0.7837686	-0.3953588	-1.1429457	-0.8982493	-0.4479922	-0.6085162	-0.9551843	-0.1658445
	-0.1880311	-0.8793462	-1.9176235	-1.5701818	-0.694137	-1.3972448	-0.5338335	-0.2004819
	-0.1439325	0.03784662	0.50559348	0.60875907	-0.3173828	-0.219493	0.25040596	1.08288291
	-0.6201622	-0.9026936	0.23521389	-0.4768205	-0.370076	-0.5078834	0.0796434	0.71175922
	-0.0250525	0.55071239	-0.6391385	0.49523381	0.1344566	0.57477257	0.24638119	1.13157859
ıotosynthesis - antenna pro	-0.865241	-0.8392919	-3.7916865	-0.7906527	-0.4009172	-2.1840436	-1.848476	-0.8649493
	-0.163188	0.00438074	-2.7161988	-0.3285367	-0.1537715	-2.2169595	-0.7464981	-0.3394075
ıotosynthesis map00195 Ph	0.02489039	0.16723498	-2.0848211	-0.2903731	0.00537922	-2.0693769	-0.6958263	-0.2992443
	0.2596876	-0.6801853	0.8723523	-0.2451171	-0.1059299	0.20849811	-0.1628152	0.01260621
EC:3.2.1.26	-0.26064	-0.3175489	-1.9323766	-0.4823549	0.08727279	-0.2025931	-0.268106	0.5648808
	-0.1544328	-0.4658774	-0.4995739	-0.7279646	0.0001663	0.77753828	0.13765659	0.76865818
	1.4604028	1.21596615	0.83037553	1.15883967	0.25812803	1.14863287	2.51372467	2.62453419
	-0.5586508	-0.6644287	0.06295881	-0.0539248	-0.3827303	-0.079939	-0.6612454	0.26722092
	0.46523865	0.12585714	0.9771092	0.98657265	0.36466265	0.62921001	0.32570296	1.19393663
	0.75456542	-0.2565641	-1.8542324	-0.6696178	0.25119246	-0.0339409	1.09074402	0.64673014
	0.95914826	-0.768904	-0.3010351	-0.144681	0.08756939	-0.6979037	0.90116554	0.47234777

Supplemental Table 2 Tab 1

	1.69731317	0.17642657	-0.4919377	0.15875414	0.19388514	-0.4705267	1.85801211	1.24255151
	-0.6348533	-0.9238686	0.51282081	-0.5295584	-0.6818436	-1.1420429	-0.7534103	-0.0811817
	0.08300557	-0.5635606	-1.6616228	-0.3309819	-0.1969264	-1.7197025	-0.1266753	0.62822304
	-0.3136872	-0.7240973	-1.0627879	-0.6599004	-0.1497435	-0.97166	-0.3303021	0.36773956
	-0.3162836	-0.5492648	-0.6443033	-0.4873332	-0.2181244	-1.0523227	-0.1185102	0.88727377
	0.51923832	0.20288426	-1.169925	1.26927638	0.42570622	1.52533852	0.31198607	1.25710928
	-0.4138059	-0.3921012	-0.4947468	0.49607403	-0.5327698	0.06771803	-0.7846321	1.26508883
	0.61435903	1.01683078	-3.6071402	-0.118383	0.61538955	-1.29159	2.12891159	1.42857109
ıotosynthesis - antenna pro	-0.2651762	0.49559695	-7.3034245	-0.8224253	0.31560953	-2.5506865	0.42749165	0.61228985
	0.80888885	-0.5805166	1.37278617	0.31790794	0.21948156	-1.1574162	0.36136018	0.40599769
	-0.0361612	0.35250612	2.75244239	1.5802565	-0.1941642	0.50772528	0.92912004	1.17847869
	-0.7054718	-0.9630825	-0.4257272	-0.7663657	-0.7311316	-0.4677895	-0.4565087	-0.5831058
	-0.2087729	0.24776313	-0.2338756	-0.669321	-0.1450432	-1.4348427	-0.0256217	0.69703446
	-0.1886018	-0.8352304	-1.9773663	-0.6162336	0.00396938	-0.8089544	0.64211312	0.10512418
	-0.0739893	-0.2566076	-1.321696	-0.1306751	0.10385664	-0.3707595	0.55897465	1.29977896
	-0.6297671	-0.8914096	-4.1084656	0.09022779	-0.7390876	0.83359292	-0.7652379	1.48445886
	0.80864356	0.71397836	-0.632128	1.38907333	0.221277	0.8247756	1.30736693	2.06980849
	0.55996005	0.49832968	-3.169925	0.87937903	0.2264895	-0.1482972	1.18655142	1.79322797
	-1.1008505	0.02144539	2.95899954	3.53767421	0.16826995	-1.7279797	1.09182818	2.13367153
	0.21594102	-0.4445691	-1.6749057	3.08938822	1.01496252	-1.2654354	1.99626615	4.68783282
	-3.0249564	0.88576508	3.21947687	4.55272224	1.54549001	-0.8916692	2.59410031	5.52733706
	1.20481225	1.38632307	0.16296735	0.91501438	0.07293293	-1.1612662	-0.0694421	1.44414844
ıotosynthesis map00195 Ph	-0.8671842	-0.4522184	-3.9189087	-0.6379787	-0.2541797	-2.5710335	-1.423715	-0.9594934
ıotosynthesis map00195 Ph	-0.2398414	-0.0347209	-4.0725293	-0.2637024	0.37325243	-2.0693021	-0.7802711	-0.9136321
	-0.694286	-1.1317676	-1.2732368	-0.2361622	-0.5521856	-0.7735268	-0.4065252	0.10143649
	-0.4245112	-1.2065022	-1.1854929	-0.9023141	-0.7255547	-1.0784245	-0.1980433	0.15649266
	-0.2170352	-1.6721953	-0.169695	0.48068718	-0.6217715	0.21421998	1.79759536	1.22094585
	0.2231979	0.49858024	2.11578087	0.34320221	0.64173401	2.96330058	2.39965749	0.4273923
	-0.0250672	-0.6716735	-3.7544234	-1.0400402	0.14402601	-1.0812991	0.26311772	1.48979661

Supplemental Table 2 Tab 1

	-1.1773479	-1.4086272	-2.4907958	-1.0521715	-0.2210611	-0.8848483	1.96297985	0.65783443
	0.97446491	-0.6710023	-0.1718245	-0.9798924	-0.3604022	-0.3734584	3.05524437	1.51937416
	1.14334129	0.32598631	-1.1724672	1.02017788	0.64032981	-0.3727658	3.71675909	0.84082963
	-0.2933561	-0.2136056	-0.9953364	-0.7664519	-0.1951003	-0.8981952	-0.4656285	-0.0173023
	-0.4082396	-0.1817721	-1.3456946	-1.0861099	-0.3957783	-1.1672305	-0.7485633	-0.0838965
	-0.4158814	-0.3695411	-1.5688197	-0.6381585	-0.1379029	-0.5527388	0.19308845	1.08393665
	0.15933647	-0.2003642	-0.1055834	0.20574501	0.12067911	-0.0932805	0.59676123	0.43576994
	-1.1996644	-1.2868004	-0.147452	0.06006625	-0.2691186	0.12601159	-1.4781902	0.04666923
	0.11790639	-0.0601934	-0.4816433	0.02133766	0.17203997	0.14115577	0.63399388	1.30447701
	-0.3645854	-0.859973	-0.9283651	-0.1390589	-0.2775421	-0.1588679	-0.7813335	0.23545331
	-0.4931693	-0.9861001	-1.0321812	-0.9255356	-0.3385848	-0.1077289	0.63974403	1.15244947
	0.21779803	-0.6688058	-2.1982872	-0.7562648	-0.0923125	-1.4343809	-0.6162053	0.07657476
	0.58986889	-0.8117964	-2.30401	-1.013809	0.24652138	-2.1621778	0.43296008	0.68773584
ıotosynthesis map00195 Ph	-0.2479956	0.03541146	-0.0514137	0.66075316	0.05960273	0.95852458	0.35096681	0.07186241
	0.94695837	0.11983292	-0.7003216	0.32086913	0.60411609	0.40992458	1.31206477	0.72672156
	-0.6339017	-0.7115768	-3.2889236	-0.8324862	-0.4145959	-0.9632544	-0.9367033	0.19485185
	-0.2798147	-0.339352	0.00136797	-0.4902633	-0.4699382	1.01014336	-0.7450996	-0.3603593
	0.26887993	0.10368015	-0.8477747	-0.1792331	0.20787457	-0.7613407	0.73264785	1.33939097
	0.25727052	-0.6394413	-1.5384792	-0.6034951	0.00969586	-1.3244984	0.6283364	1.0997016
	0.69981405	-0.639942	-1.202166	-0.5397807	0.61454115	-1.1529665	1.10745173	1.16785987
	-0.3441343	-0.742018	-1.1357623	-0.3412281	-0.149239	-0.6522299	-0.2355978	0.68500915
	-0.0691153	-0.326028	0.80842944	0.16573433	-0.1978366	-0.2231083	0.02496192	1.06481248
	2.76309125	-0.782651	0.18394121	1.73542743	2.17408904	1.33378463	2.99292313	1.79688649
	1.94457026	-0.6218598	-0.1952259	1.00224008	1.58998347	0.70724196	2.56451742	1.75069584
	0.48048022	-0.1213929	0.30834143	0.35356263	0.64151437	-0.1337384	1.00932377	0.87270689
	1.97502177	1.65025396	0.83050026	1.19127394	1.64155572	1.74465757	2.99013668	2.52027069
	0.74600688	0.47725016	0.27252091	0.26598153	0.27446644	1.0676204	0.85889462	1.04102549
	-0.1141514	-0.8883381	-0.703518	-0.3924705	-0.2600766	-0.6746254	1.1061915	0.99481476
	-0.7960766	-0.4740334	-1.470295	-2.1102359	-0.1398817	-0.3510436	-0.3268451	-0.1447209

Supplemental Table 2 Tab 1

2.67568331	1.1361714	3.35420542	0.02180437	2.51621998	1.85194377	3.48226612	1.32798327
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0.02562353	0.04459923	1.15226231	-0.3597027	0.33668689	0.67989806	0.16008182	0.71287183
2.20717269	0.7063187	1.71741732	0.15879444	1.46231202	0.18148203	3.11079851	2.6735928
-0.0094563	-1.4672169	-0.4644427	-1.2352744	-0.0746757	-1.5721945	0.77035297	0.16660773
0.121649	-2.4776371	0.19271687	-3.2018636	-0.5803752	-1.5924481	1.41165941	-0.1998832
2.1447001	0.91335126	3.41514854	1.3430927	1.64148529	0.36625043	2.79733676	1.51995251
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0.13451928	-0.4846859	-0.7701368	-0.9635946	-0.0971292	-0.2719922	1.08297671	0.2965465
0.16474421	0.18634061	1.78449289	-1.0717639	0.05653603	-0.1228739	1.03454854	0.42706691
-0.4128922	-0.5529854	0.39448406	-0.9581862	-0.4877878	-1.1425149	-0.1335323	0.15908346
-0.1064885	-0.4593265	4.64453532	0.35028402	-0.171719	-1.2047475	0.0588409	-0.979393
0.16213914	-0.0924677	4.53006209	0.79350881	0.27770672	-0.9298932	0.15813288	-0.5329307
0.71008815	0.26776432	3.9501532	0.9843529	0.78343653	-0.452139	0.52870244	-0.5839148
0.17017498	-0.057184	3.95243756	0.49463449	0.18473815	-0.6964251	-0.2831507	-0.2556122
-0.5554827	0.05425777	0.25921345	-0.9786878	-0.3959737	-0.2638326	0.59355037	1.29550514
-0.2391777	-0.9445441	-4.4435236	-0.792353	-0.1576446	-1.2592053	0.81165714	1.13794748
0.21173172	-0.0869332	-2.3929917	-0.9789663	-0.1659818	-0.4413433	1.70620666	0.10509796
-0.0924949	0.35266346	-1.8688847	0.28395505	0.29215582	-0.306877	0.19162329	-0.5758567
-0.2147224	-0.6102516	-1.3008925	-0.7473663	-0.1754864	-0.9767409	0.80343753	0.74705038
-0.5707486	-0.5875155	-0.8362098	-0.7276853	-0.2926702	-0.0837531	1.27705882	1.11480995
-0.4775655	-1.1146811	-2.0372884	-0.5446797	0.11766	-0.9079644	-0.4911335	0.26268515
0.434125	-0.3504509	0.63709917	-1.9797707	0.51540632	0.74435457	3.09831594	1.76765752
-0.3331681	-0.3276904	-1.4551224	-0.3571653	-0.6742905	0.35878779	-0.3645373	0.11743329
-0.5513072	0.15826761	4.6461188	0.3106902	-0.159376	0.12215732	2.21244697	2.17032694
0.41736191	0.00354047	3.86549869	-0.6199452	-0.0902793	0.73755037	1.43682235	1.41149388
0.12177152	-0.2773266	0.50836408	-0.6649717	0.1367159	-0.8370926	0.65526091	0.44617548
0.72498842	-0.6074076	0.01477175	-0.4839099	0.4044819	-2.0931864	0.28560948	0.89368746

Supplemental Table 2 Tab 1

-0.8031352	-0.934624	0.70456082	-1.2418769	-0.3585859	-0.081641	1.762462	1.88909362
-0.6887652	-0.8037428	0.8272564	-1.2060893	-0.4928238	0.10600706	-0.3280377	0.59339397
-0.2474494	-1.6718421	-0.2766254	-0.5380665	-0.4289787	0.44640784	-0.293593	3.07036747
0.20135226	-0.526964	1.59681686	-0.2473417	0.34426246	-0.010283	-0.0469729	1.23614277
-0.0250397	-0.3496944	1.22260101	-0.8088159	-0.0366424	-0.0978331	2.06693166	1.37812468
0.68929318	-0.1480204	2.41532694	0.04371562	0.70049909	0.4019524	1.64129118	1.26171513
1.52954596	0.65030214	1.6883141	0.82871332	1.18586655	0.36624522	2.83565718	1.84212497
0.55991763	-0.33172	-2.7103982	-1.6567391	0.07895689	0.41063384	0.63401544	-0.104775
0.48946203	-0.0328262	-0.2766668	0.17739346	0.48946203	1.33699507	1.05060276	0.49938134
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2.67568331	1.32881647	3.22287807	0.02180437	2.75732655	1.85194377	3.31237622	1.10538247
1.39015047	0.32852705	1.83039792	0.34353679	0.86409743	0.70731298	2.26329274	0.84216721
-0.6041931	-1.416391	2.65418431	-0.4733871	-0.6122241	-0.9557289	-1.0571581	-0.2640963
-0.7032542	-1.3496485	-2.1697045	-0.9785485	-0.2429741	0.04430056	0.38247568	-0.6723495
0.27264564	0.74342308	0.88919086	-0.2416454	0.58010783	1.35414907	0.35936036	-0.1106079
0.24796466	-0.0305188	0.30833829	-0.464085	0.09049004	-0.2187558	-0.0446432	-0.3022952
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0.15989634	-0.4108893	-0.8976644	-0.2636386	0.12953195	0.20507553	0.29012188	0.31581236
0.03073188	-0.6341158	-0.6103131	-0.800373	0.13055463	-0.2495532	0.85069024	0.50107242
0.8340702	-0.252413	0.59385277	-0.1665203	0.93862434	-1.2120532	0.39041094	0.65616134
0.46437236	-0.7281709	1.25915403	-1.0940372	0.21413784	-1.0123016	0.81330526	0.46360491
-0.870398	-0.829714	0.77122701	-1.1519571	-0.5838994	-0.2827735	-0.1717208	0.1931546
0.66795401	-0.2493842	0.94132018	0.72620775	0.37463029	0.64517322	0.68909625	0.60877415
0.59390569	0.32841969	0.52548724	0.27295287	0.3224898	0.58275583	1.38575661	0.98588573
1.3436658	1.06440633	0.94500272	0.75776497	0.47107153	0.2659412	2.92800281	1.10481641
-0.0723475	-0.6950722	0.30237199	0.22197551	0.22129918	-0.8546209	0.08033126	0.65875211
-0.3759644	-1.0866536	1.00749017	-0.6566979	-0.6215281	-0.6469511	-0.4692739	0.58431841
0.18994485	-0.6461081	-1.222198	-1.1713191	-0.2272343	-0.8804331	0.19400139	-0.1786357

Supplemental Table 2 Tab 1

-1.1197165	-0.9074364	-0.3788182	-0.572242	-0.1996387	0.60614287	-0.1669667	-0.2187041
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0.89247442	0.12421312	-2.1696525	-0.2178576	0.89224604	-0.4114287	1.09400615	1.44036221
2.29713891	1.49859158	2.41549825	1.48109001	2.14430213	1.04436929	2.99034158	1.9797875
0.81610114	-0.4494337	-0.0544258	-0.1042153	0.64144349	-0.2928746	1.59492492	1.10504723
1.1456261	-0.0855974	1.83108914	1.19183325	0.37921068	0.04474823	3.07819045	1.84272091
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0.84948929	0.59585424	0.93334127	-0.2256228	0.87529713	-0.0380802	1.65519997	0.53349018
0.95531257	0.59467062	-0.2498325	0.14284768	1.02202886	-0.2344124	1.55547817	0.58683453
1.38991833	1.29773501	1	0.39032697	1.32940598	-0.0172393	2.662373	0.57888045
-0.15442	0.35446686	0.12027436	0.87605548	0.0774618	-0.0509397	0.32046388	0.54627315
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-1.4401757	-0.9346793	-0.7546725	1.24376385	-0.6214782	0.26671265	2.34771063	0.88941586
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0.95672678	0.52997906	0.31563762	-0.0911898	0.64143342	-1.1077146	1.9900849	1.91245682

Supplemental Table 2 Tab 1

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-0.6397787	-0.5049913	0.9366632	-0.7107613	-0.7768078	-0.4411762	0.15021888	-0.1876434
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0.25273305	0.37695584	2.0604377	-0.5986057	0.39422177	-0.3446103	-0.2808271	-0.0475728
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0.13428628	-0.3270838	3.08568764	-0.9365377	0.13505294	-1.1056155	0.59862156	0.41436225
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0.17658052	0.07683298	-1.8749691	-1.998043	-0.0174478	-1.9751104	-0.5244388	0.02608562
0.43771908	0.3738842	-1.5971714	-2.1348322	0.10204575	-1.686522	-0.1763563	0.20054994
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0.04993757	1.73440004	-0.228606	-0.8410723	0.4607508	-0.6609941	1.60841253	0.7467319
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-0.3459994	-0.8496921	-2.3477205	-0.7401436	-0.028295	-0.3493161	-0.4837386	0.86462267
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0.27976995	0.46972206	-1.4497351	-0.1835404	-0.4459435	-0.583851	0.82150182	-0.281949

Supplemental Table 2 Tab 1

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0.97243774	-0.1714818	1.22133788	0.17785327	0.64151425	-0.0995817	1.22038272	0.98446885
-0.0901035	-0.2672435	-1.127742	-0.558168	-0.4160734	-0.0889369	0.99551602	0.36346318
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-1.1299768	-0.364137	-1.032793	-2.1592196	-0.5025403	-0.4284771	0.26697818	-0.4995265
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-0.8675497	-0.3720141	-2.8703647	-0.9241895	-0.3039935	-0.246788	1.92996225	-0.0926984
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0.89277572	0.61269296	-2.8396681	-0.6322589	0.67546511	-0.0189033	1.62237571	0.23010002
1.42648255	1.43060638	-2.6732928	0.67516381	1.32643057	1.49577143	3.48372857	1.61244978
1.20907301	1.0735855	-2.3069859	0.02134342	0.98090172	0.56794545	3.03857088	1.25066261
0.86168682	0.69851924	-3.5764174	-0.0061075	0.61865735	-0.3527273	2.69266878	0.8202211
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2.36731789	1.7879228	4.22268533	2.60637709	1.79361222	1.66887106	2.40525496	2.25720653
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0.24843175	-0.6189557	-0.9490274	-0.815323	-0.2475989	-0.36685	1.81444893	0.12484907

Supplemental Table 2 Tab 1

0.01801696	-0.6285923	-0.1266284	-0.613642	-0.1298514	-0.2858767	0.8705668	-0.1491602
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-1.9748998	-2.4473665	-3.7419645	-3.0984425	-0.9691945	-2.75359	-0.5354241	-1.8737377
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-0.8995365	-0.5460999	1.10652842	-1.1161655	-0.3276011	-0.0376463	-0.8090531	-0.9522007
0.04051948	-0.5129227	0.68014738	-0.3174637	0.28850398	0.15716566	0.59728613	0.09391936
0.79509202	0.15756691	0.13664738	0.06881934	0.70449344	0.11953094	1.64525287	0.28269976
2.33245178	1.78767444	0.83037503	1.34305697	1.7569901	1.50348844	3.61942147	1.76807421
0.94446955	0.06531109	3.95262151	1.68422708	1.05654088	3.55199119	2.87270386	0.25706166
0.08405383	-0.2009911	3.93820666	0.5067449	0.94406338	3.29327921	0.83239187	0.28571416
0.21334338	0.04262562	4.09942119	0.73560324	1.24637914	3.62265117	0.77148395	0.12012311
0.53912025	-0.2773546	-0.2766217	-0.750393	0.42709548	-0.7451692	1.19622674	0.85032815
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-0.8109662	-0.2931625	-2.8137812	-0.8946696	-0.24741	-0.1902045	1.98293444	-0.0361149
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0.89277572	0.6084707	-2.8396681	-0.6322589	0.67206805	-0.0189033	1.62237571	0.23010002
1.43420509	1.4404813	-2.6732928	0.68857025	1.32643057	1.49577143	3.47804285	1.61244978
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0.86168682	0.69851924	-3.5764174	-0.0061075	0.61865735	-0.3527273	2.69266878	0.82571175
1.43441492	0.69759853	-0.1697549	0.75831122	1.144019	0.26668441	2.67198642	1.06454451
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Supplemental Table 2 Tab 1

-0.7956759	-0.7222782	5.92246803	0.12907482	-0.8242174	-0.0589079	2.69244819	0.32037892
2.36731789	1.7879228	4.21120157	2.60637709	1.79361222	1.66887106	2.40525496	2.22068706
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1.49842717	1.49842717	3.76099484	0.82846264	0.51574467	1.74456336	4.39949876	0.51983742
-0.5844396	-0.5721689	1.13151412	-0.5766189	-0.7507283	0.54070846	2.69455419	0.54573295
-0.1463561	1.33995258	-2.5389938	-0.4734169	0.63372636	0.91025778	1.4239496	1.23131401
0.21524019	-0.4561017	-1.2042589	-1.009785	-0.0242876	-0.5788436	1.2739455	0.16755896
-0.1644415	-0.9887914	0.1059394	-1.3685728	-0.477103	-0.7117967	0.87665322	-0.4423185
0.20442271	-1.0701676	-4.0277602	-1.2820267	-0.1575501	-2.1131973	0.03904563	0.13793106
0.61439359	0.15152142	0.37778663	-0.0351843	0.02861021	0.1767489	2.00397293	0.27917152
0.28555799	-0.5948089	-2.1924505	-0.2747394	-0.0638793	-1.5045454	1.3143155	-0.0746577
-1.0253076	0.00635725	-0.1696761	0.22296117	-0.1779862	0.85155424	0.71254931	0.59052662
0.5599496	0.07837058	-0.4592992	-0.7377429	0.21190867	-0.7146032	1.54193874	-0.0323637
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1.95221926	0.57643087	-1.1694997	0.8285856	1.61109441	0.50390072	2.86055996	0.97943868
0.0315242	0.83547971	0.55815102	1.12032816	-0.2841465	1.10621059	-0.0313965	0.67193303
-1.2880338	-2.2565009	-0.4328299	0.02128984	0.05648788	-0.5406814	1.21248573	1.39462465
-0.2474494	-0.5720897	-1.169772	-0.6160526	0.00407484	-1.5930956	0.08968146	0.23640224
-0.4400542	#NUM!	-1.169925	-1.9789822	-1.9436491	-1.955331	1.57514993	0.10525076
-0.5656386	-1.3496906	-1.5847812	-0.7562805	-0.7735353	-2.7333608	-0.3853821	-0.6724772
-1.112522	-0.6716251	-0.3502948	-0.511528	-0.0085391	0.06532897	0.36209701	1.39850148
#NUM!	-1.6714348	#NUM!	0.34334197	0.05669113	#NUM!	1.44959196	-0.4797803
0.47746554	-0.6715537	0.41529267	0.43639989	-0.0689949	1.36624522	0.7975351	1.88945517
0.144733	0.328353	#NUM!	-1.3938322	-0.1362469	0.04423615	0.31202066	0.8420223
0.96300168	-0.5500664	-0.0850471	-1.0601849	-0.0589277	-0.7220521	0.61419776	-0.5782203
-0.0250543	-0.0866914	1.11037948	-0.0856079	0.00407719	-0.5931761	1.0896542	1.57079725
1.8819164	1.49836741	0.41533678	1.72184912	2.22655969	1.85171691	2.99023934	3.60774899

Supplemental Table 2 Tab 1

-0.8026714	-1.2566059	-1.1026015	-0.0855665	-0.7210504	-0.8561819	0.13697258	0.68245699
-0.1083872	-1.1570531	0.66679026	0.37530004	0.65858515	0.98989709	0.44420369	1.50352543
-0.9645272	-0.9680192	-0.7754277	-0.7156327	-0.4288794	-1.1308236	0.12763571	0.9300548
0.29682812	-0.5016976	1.35382277	0.60627825	0.51596352	-0.0488426	1.19955445	1.37815291
-1.0250533	#NUM!	-0.1696567	-0.3938322	-1.9437703	0.04408746	1.79737692	-1.4797347
-2.0251517	-1.1861663	-1.4915959	-1.1306482	-0.5648816	-0.8182072	0.36866799	1.40772679
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
-0.0249274	-0.6716824	1.15230615	0.19128443	-0.358446	0.21424271	1.16011696	1.10518224
0.72214642	0.76891504	1.15219364	0.82869084	1.05654036	0.66316833	2.0029467	2.01659743
-0.440092	-0.7456618	0.55276097	-0.8411778	-0.0174579	-1.2776634	1.16005771	0.6245021
-0.8782267	-1.6716685	-0.7291455	-1.3265791	-0.9959099	-0.4776852	-0.6473128	-0.2871843
0.61883949	0.02882117	0.917778	1.51321528	0.91457255	1.04430246	1.34770725	2.30158151
-0.0864676	-0.6716442	-0.0542365	0.13681141	-0.136123	0.266634	0.86459691	1.63564477
-0.9470478	-1.6716274	-2.3397135	-1.5635809	-0.4129443	-3.1255828	0.06812963	0.9649649
-0.4401151	-2.0341664	-0.432738	-0.1944033	0.76925578	0.51819385	0.70284108	2.10513752
0.49278457	0.07839173	-1.1697051	-0.3506279	0.26954519	-0.5082514	0.63923953	1.21049706
-0.0250547	-1.0866485	-0.1696663	0.1912741	-0.0365672	-0.7857457	0.44957839	1.47437269
2.75046555	0.85889479	2.71021681	0.06088381	0.61455018	0.36620739	3.03938413	2.17681051
#NUM!	-0.6714656	-0.1697759	0.02131663	-1.9429806	0.62931143	1.79756434	2.60774782
-0.7332889	-0.4003217	0.77966635	-1.1642081	-1.0734978	0.37612487	-0.20963	0.65088752
-0.324633	-1.3497155	0.63762704	0.10879219	1.05656436	1.32968072	1.31206645	2.248101
-0.0250548	-0.487173	-0.4591947	-0.0457677	0.40448937	0.19955249	0.94010645	1.10515588
0.29686549	1.13572484	1.15215745	0.34326369	1.22641931	2.13170469	1.44952067	2.32750402
-0.7083672	1.60038756	1.10985299	1.14103858	-0.2251298	-0.0472258	-0.1866704	-0.4799821
0.11933294	-0.8320865	0.69088546	-0.2840656	-0.2488623	-0.6958576	0.62484952	0.73986037
-1.0250772	-0.4086199	-0.4916584	-0.1307146	0.43502571	-0.0297625	0.66818616	1.657661
-1.0250659	-1.8941044	-2.9769109	-1.2011124	-1.2914489	-1.062704	-0.2322758	0.17224679
0.5599033	-1.1995621	-1.3165526	-0.2604201	0.37848235	-0.4180684	0.7841344	1.04172345
0.45299446	-0.2310541	-2.9772154	-1.7860443	0.0565736	-0.5151262	0.39224124	0.52017206

Supplemental Table 2 Tab 1

	2.75046555	0.85889479	2.71021681	0.06088381	0.61455018	0.36620739	3.03938413	2.17681051
	-3.0249135	-2.6717345	#NUM!	-2.9787509	-1.7210964	-1.5407181	-0.5948467	-1.2574935
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	-2.024291	#NUM!	0.41529373	-0.978129	#NUM!	-0.3707935	1.16015444	0.10523028
	2.23261423	0.48242342	0.60207942	-0.2237694	0.2736631	-0.2815864	1.4729736	0.60828817
	-2.28809	-1.244875	-1.0446142	0.90363221	-1.1632298	-1.4096126	-0.1511631	1.5221421
	-0.5193999	0.27233069	1.19294206	1.21668713	0.02362136	0.54724408	-0.023016	0.71042593
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	0.69326626	1.33535805	0.78882098	0.48606199	0.58701793	1.09409458	0.22333288	0.35623426
	0.70674208	-0.2184628	0.67637748	-1.4402507	-0.528417	0.5885959	-0.0534514	0.08206322
	-0.4405262	1.54203676	0.93425534	1.12907553	-0.2888553	0.42151926	0.370812	0.65796179
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Reference vs	Reference vs	Reference vs	Reference vs	Reference vs	Reference vs	Reference vs	Reference vs
logR=1	222	437	1466	428	49	918	158	118
	303	108	588	150	113	183	769	764
logR=2	33	24	676	33	7	178	16	19
	70	9	246	29	14	54	211	114

Supplemental Table 2 Tab 1

ues in logR2)

Reference vs light 1 hour	Reference vs light 24 hours	pH 1 hour vs pH 24 hours	NaCl 1hour vs NaCl 24 hours	CO2 1 hour vs CO2 24 hours	Temperature 1 hour vs Temperature 24 hours	light 1 hour vs light 24 hours
-0.6152289	-0.9354362	0.10457619	0.67727961	-0.3544993	0.49771762	-0.3202073
-1.2596975	-1.4023878	-1.1874463	-0.8721345	-1.1647462	0.19317247	-0.1426903
-1.5966175	-1.6393803	-0.5348145	1.02319181	-0.8856624	1.42527315	-0.0427629
-1.2487799	-1.3339557	-0.3291683	-0.7423087	-1.5877042	0.23337812	-0.0851759
-0.207264	-0.7540337	-0.2660624	1.44524574	1.03054215	0.00612822	-0.5467696
-1.2171332	-1.4562002	-0.910872	3.40683566	-2.5028012	-0.6550137	-0.239067
-1.072449	-1.2880009	-1.0105546	2.87925243	-2.7989339	-1.0267923	-0.2155519
-1.1382758	-1.3948799	-1.0959101	3.02241524	-2.6245205	-1.2408368	-0.2566041
-1.3997685	-1.6521871	-1.0954485	3.91449292	-2.583961	-1.0642529	-0.2524186
-1.3966748	-1.5705433	-0.9793724	3.61307343	-2.5380649	-0.7210563	-0.1738685
-1.1106514	-1.4175895	-0.7001174	4.32507975	-2.6777077	0.22195135	-0.3069382
-0.8039733	-0.9949315	-0.739598	3.11462466	-2.2622197	0.05549776	-0.1909583
-1.5029047	-1.4197633	-1.0129506	1.14428626	-1.4951835	0.30047188	0.08314142
-1.2831794	-1.1555554	-0.5094294	-0.778176	-1.1298553	0.60027346	0.12762402

Supplemental Table 2 Tab 1

-2.1969323	-2.3185055	-1.2157318	1.22696979	-1.3928352	-1.001949	-0.1215732
-1.5488248	-1.1418999	-0.2760016	0.77055068	-0.4404303	0.99096141	0.40692493
-1.5719229	-1.4579358	-0.9531677	1.28003037	-2.5265773	0.10481235	0.11398706
-1.0514575	-0.5815631	-1.6324758	-1.3840406	0.2275674	0.68177882	0.4698944
-0.7786395	-0.5393022	-0.6921302	-1.5763157	-0.1566659	0.35287758	0.23933726
-1.4675939	-1.1733528	-0.7719441	-0.2824422	-0.6217335	0.62493499	0.29424114
-0.681821	-0.1104522	-0.4725397	-1.6846131	-0.1810417	0.34515414	0.57136875
-1.4475149	-1.0133102	-0.3631571	0.56247204	-0.8334904	0.75686312	0.43420474
-0.5885279	-0.7080906	-0.7753735	-0.6890209	-0.6084384	-0.8783172	-0.1195627
-1.3848298	-0.9523826	-0.7476827	1.13184558	-0.6939497	0.49831363	0.43244719
-1.465215	-1.8716625	-0.7581843	1.48381821	-1.5159796	0.05810265	-0.4064475
-0.5760928	-0.848165	0.04191502	-0.5765427	-0.3736221	0.27934735	-0.2720721
0.08152603	0.11431732	0.2037246	3.56840929	-0.4259415	0.46393662	0.03279129
0.01193403	0.25308158	0.30430054	3.07500603	-0.1500407	0.2171161	0.24114755
-1.1759652	-1.1888981	-0.4996084	1.48418717	-1.1685485	0.99864949	-0.0129329
-0.468648	0.05420412	0.62485523	3.94602444	0.29968438	0.40807785	0.52285209
-0.4867347	-0.8910844	-0.688879	1.30066147	-0.9276692	-0.0726116	-0.4043497
-1.1793166	-0.8645819	-0.4954734	0.03745374	-0.8508121	-0.0534068	0.31473477
-0.1109601	0.05911439	0.16400617	-1.91568	0.75033071	0.11275474	0.17007451
-0.446223	-1.105955	-0.3215327	2.64999381	-0.5650448	0.71454957	-0.659732
-0.2225024	-0.7926448	-0.121257	3.05805296	-0.41713	0.00173977	-0.5701424
-0.3054572	-0.916334	-0.3015871	3.02165147	-0.8657414	0.02275929	-0.6108769
1.72085507	1.02439325	-4.7044362	2.78746868	-2.9261707	-1.5232186	-0.6964618
-0.6859822	-1.2444884	-1.0112214	1.99683671	-1.0871278	0.42356865	-0.5585063
-0.2907645	-0.7596335	-1.8385192	-2.732745	3.92203795	-1.7061534	-0.4688689
-1.4916474	-1.4961978	-0.7507695	0.9187971	-1.5397835	0.29611444	-0.0045504
-1.4194618	-0.9574408	-0.9314253	-0.4470662	-4.1294221	-1.9927191	0.462021
-1.0372367	-1.5485058	-0.5357931	0.58978837	0.12471589	0.87588255	-0.5112691
-1.0319216	-1.484909	0.11030309	0.88911187	-0.3488975	0.69516079	-0.4529874

Supplemental Table 2 Tab 1

-0.5112096	-0.823991	0.26788693	1.33409741	-0.4562891	-0.0836419	-0.3127814
-0.5809681	-1.2362608	0.29896764	2.23929095	-0.6372824	0.1826557	-0.6552927
0.24262279	0.4738441	0.38200221	0.00110189	1.15200796	0.48847289	0.23122131
0.67295683	0.74023609	0.2400278	2.05482134	0.21012136	1.13135628	0.06727926
-0.85442	-1.4556706	-0.9175515	-1.320919	-1.6866826	-0.2453927	-0.6012506
-1.6683401	-1.6626783	-0.3549873	0.13093098	-1.8049292	0.12976545	0.00566183
-0.6606732	-0.7071459	-1.3583351	-1.2192323	0.15060503	-0.143545	-0.0464728
-1.875776	-1.6125883	-0.4398538	-0.7403535	-0.3709582	0.5006443	0.26318769
-0.4040052	-0.4660623	-0.4110425	-0.7657063	0.74783661	1.02006135	-0.0620571
-1.2418389	-0.9091871	-1.4086397	0.17787197	-0.4828557	-0.1885067	0.33265183
-0.7685552	-1.0330247	-0.241059	0.53881313	-0.1483077	0.68528476	-0.2644695
-0.9672992	-0.7406551	-0.5174731	0.29291631	0.57585291	0.92555762	0.22664409
-0.5117545	-0.0363638	0.12524412	0.18072232	-0.0745095	2.93682653	0.47539073
-1.1581565	-0.9888996	-0.6294489	-0.6798449	-0.2252607	0.34729373	0.1692569
-1.4432913	-1.9108244	-1.5919175	0.77602031	-1.6373956	-0.1647037	-0.4675331
-1.7571674	-1.7330291	-1.1126466	1.29647771	-1.2846886	0.53999873	0.02413826
-1.1380866	-0.9968022	-0.6300161	0.55718682	0.50194349	0.327792	0.14128442
0.26074302	0.01100173	-1.9140937	-4.2294512	-2.2658177	-1.2540474	-0.2497413
-0.6246008	-0.97013	-0.342064	2.82749721	-0.5500731	0.40899921	-0.3455292
-0.9766304	-1.5814822	-0.4906283	2.71457405	-0.7157534	0.23099528	-0.6048518
-0.5213022	-1.2562245	-0.9530442	-0.3323428	-0.6419027	0.7968039	-0.7349223
-1.7907522	-1.6398257	-0.9317103	2.27453573	-2.4993544	-0.1717829	0.15092643
-1.9081661	-2.0215111	-0.9330012	2.24248856	-2.8106872	-0.3125301	-0.113345
0.35725321	-0.5925884	-0.2529536	2.83985556	-1.0522657	0.30873685	-0.9498416
0.74078699	-0.4299092	-0.0693886	3.56502745	-0.6268373	0.72041502	-1.1706961
1.03484849	-0.2217682	-0.1190839	2.46812898	-0.2633901	0.7092985	-1.2566166
0.9337801	-0.4009829	-0.0990879	2.23380704	0.13755359	1.09199735	-1.334763
0.97308632	-0.4323762	0.0868977	1.90377747	0.04710833	1.8187069	-1.4054625
-1.8102927	-1.8236988	-0.893499	0.44824794	-1.0772476	0.46570819	-0.0134061

Supplemental Table 2 Tab 1

-0.4383348	-0.5781674	-0.1629787	0.76409099	-0.1557883	0.59569504	-0.1398326
-0.5118026	-0.4527296	-1.3875636	-1.6682543	0.31072225	-0.8049717	0.05907302
-1.1296746	-1.1266665	-1.2637295	1.69390858	-0.4093145	-0.0093709	0.00300807
1.32949112	1.16129188	0.4178098	-1.7842847	1.63420188	0.35260859	-0.1681992
-0.2884865	-0.1943544	-0.3338795	-0.5726174	0.27948953	1.34377588	0.0941321
-1.2108738	-1.3366658	-0.5504445	1.15883183	1.22405271	0.70808968	-0.125792
-1.3135895	-1.3893553	-0.6152745	2.11597384	0.64863933	0.5359756	-0.0757658
-1.1787362	-1.3157959	-0.4915145	1.8181592	0.71585068	0.4438271	-0.1370597
-1.1781425	-1.4568023	-0.6398274	4.0438233	-1.6785538	0.62314272	-0.2786598
-0.3875352	-0.4486093	-0.0521018	0.15495347	0.52143164	0.51136803	-0.061074
-0.6841983	0.19391815	0.35345162	-3.9455738	0.25980711	0.55919854	0.87811648
-0.4453151	0.13251663	0.26575789	-1.6345258	0.04686138	0.34513618	0.57783176
-2.0537253	-2.2963414	-2.8282547	-3.813332	-1.5603946	0.95054228	-0.2426161
-1.2523247	-1.2480848	-1.1046531	-5.0800984	1.28026364	-0.8603353	0.00423992
-1.7879507	-1.2725526	0.26271876	1.24969417	-0.548991	0.98080894	0.51539811
-0.9827127	-0.9469166	-0.3750841	-0.1872398	0.01051114	0.64627215	0.03579612
-1.0534067	-0.9226248	-0.4607028	0.86586777	-0.6193787	0.50824079	0.13078189
-2.1679287	-1.8876743	-1.3887779	2.31116834	-2.3611753	1.47646419	0.28025443
-0.1100977	0.16309736	-0.0226701	0.48736412	0.97874414	-0.0935467	0.27319506
0.77029498	-0.3342565	0.31649181	1.66770513	-0.8391875	-0.1354679	-1.1045515
0.63826194	-0.4360175	0.13719017	1.70880604	-1.1228759	-0.3150022	-1.0742794
-1.1782224	-1.273633	-0.7906879	-0.0596764	-0.6968656	0.19584396	-0.0954106
-1.2444392	-1.0996017	-0.7771298	-0.9047145	-0.6310242	0.21265451	0.14483754
-1.8872794	-1.6532775	-0.9753346	0.88090342	-1.6432711	0.68577013	0.2340019
-0.7901132	-0.9766444	-0.3243372	-1.2345735	-0.3600082	0.59311881	-0.1865312
-1.3845509	-1.0569544	-1.0449144	-2.9879629	0.55936525	-0.748263	0.32759648
-0.3310598	-0.6481296	0.94795338	2.97198602	-1.7149804	0.89573672	-0.3170698
0.10773036	-0.4074676	0.35609766	2.71901067	-0.235607	0.43828978	-0.5151979
-0.3253793	-0.5058108	-0.2925928	-0.3630648	0.40117163	0.56529453	-0.1804316

Supplemental Table 2 Tab 1

0.13044912	0.00468521	0.43492063	2.7953435	0.1439807	-0.1994839	-0.1257639
5.5647E-05	-0.2833141	0.06930162	2.027572	-0.3462074	-0.21256	-0.2833698
0.16707982	-0.0149838	0.1915929	2.27533467	-0.1582001	-0.2870066	-0.1820636
-0.7559246	-1.364938	-0.7128863	2.06769628	-0.5392398	-1.0166578	-0.6090134
-1.4743569	-2.3477917	-1.1615337	2.72346951	-2.3770247	1.08962717	-0.8734348
-1.3675511	-2.3005919	-1.1312856	0.45942497	-2.2037828	0.63044766	-0.9330408
-2.2255941	-2.4134031	2.47711655	-1.2078029	-0.3245654	2.89913872	-0.1878089
-1.1831582	-1.0940411	-0.4683717	1.61797756	0.30661958	0.36688799	0.08911711
-0.798153	-0.7891522	-0.198345	0.36000822	0.28228558	0.44226617	0.00900076
-0.7921792	-0.7231102	0.50753774	1.31502937	0.00556037	0.77854604	0.06906902
-0.986317	-1.3054107	-0.8196442	0.13951431	-0.3007368	-0.1479672	-0.3190937
-0.6138913	-1.0012275	0.02900414	-0.8290776	0.1752338	0.96177538	-0.3873363
-0.9603574	-1.0497915	-0.9685009	-1.104648	-0.6519464	0.25546905	-0.0894341
-1.1532176	-1.1027435	-0.9512529	-1.5697608	-1.1157847	-0.5295121	0.05047405
-0.0781541	-0.7774344	-0.8768727	1.80550324	-1.0391207	-0.041359	-0.6992803
-0.8916773	-1.885818	-1.4612813	0.65673291	-0.855892	0.2016402	-0.9941408
0.1179531	-0.2915426	0.53537966	1.46434076	-0.400635	-0.5266496	-0.4094957
-0.4849624	-0.3332844	-0.3280385	0.96742471	0.1996191	-0.6581383	0.15167801
-1.2154713	-1.014468	-1.2339936	0.70694834	-1.3179515	-0.1247021	0.20100331
0.97348447	-0.8630999	0.70846105	0.8993043	-0.2182831	0.31607198	-1.8365844
-0.4521053	-0.0672062	0.06882864	-0.1098358	0.49284308	0.58888084	0.3848991
-1.2703822	-0.8251738	-0.7489835	1.44080088	-1.1712487	-0.1989928	0.44520842
-0.3233597	-0.0932325	1.08085739	0.66141696	1.61710003	0.47139134	0.23012719
-1.0363768	-0.9942769	-0.3657842	2.91086681	0.50929461	-0.1092341	0.04209995
-0.9801643	-1.0821471	-0.3095356	1.69834802	0.53945445	0.19478023	-0.1019828
-0.5481251	-0.6870034	-0.4026054	2.14289401	0.79823257	-0.2545059	-0.1388783
-0.8652635	-1.0482859	-0.1301262	1.84712816	1.04939415	0.06567882	-0.1830224
-0.2893786	-0.2518481	-0.1102209	0.84317073	-0.1940999	0.5797425	0.03753051
-0.4020057	-0.278054	-0.1788324	0.1703886	0.13558256	-0.6412249	0.12395162

Supplemental Table 2 Tab 1

-0.9889292	-1.3535055	-0.3452868	-0.7793156	-0.449928	0.7663759	-0.3645763
0.70250246	-1.0977028	0.53604366	2.46295119	-1.5972659	-0.8063332	-1.8002052
-0.3082663	-1.0109613	-0.8728658	0.22109456	-0.1701982	0.51746899	-0.702695
0.90325398	1.6915509	-0.0795729	-8.6124557	0.89752091	-1.2635034	0.78829692
-0.4319286	-1.0006087	0.31859288	1.56959953	-1.0121914	-0.1747405	-0.5686802
-1.9626041	-1.5436245	-1.1127008	-0.745523	-1.5124088	0.42752078	0.41897957
-1.1132386	-1.0343845	-0.9089127	-0.3801677	-1.0365732	-0.1873445	0.07885405
-2.1599599	-1.6697861	-1.6160501	1.11859927	-1.9021725	-0.06992	0.49017385
-0.6474189	-0.5421705	-0.7240571	-1.9441876	0.75883782	0.3955532	0.10524845
0.51878812	0.20377864	0.03628213	0.59024858	-0.153593	1.0788146	-0.3150095
-0.6940037	-0.724068	-0.6787593	-0.031766	-0.8127649	0.320835	-0.0300643
-0.2952512	-0.3255086	-0.0436569	-0.0993365	0.01667874	0.5485668	-0.0302574
-0.9732777	-0.5091285	0.25959201	2.29843937	-0.6299256	-0.010998	0.46414921
-0.4504275	-0.3627229	-2.4316421	-3.8377765	1.1153118	-1.1280899	0.0877046
-0.1776442	-0.1393023	-0.3029061	-0.693277	0.37189741	-0.2708583	0.03834195
-0.4183682	-0.6306821	-2.0912951	-4.0875899	4.14770645	-1.9320288	-0.2123139
-0.1101205	-0.3510468	-0.2864802	2.41117756	-0.6542625	0.62857657	-0.2409263
-1.2696451	-0.9732758	-0.7957816	0.8364763	-1.2171653	0.26370946	0.29636925
-2.1411111	-2.3584792	-1.3059769	1.45373753	-1.4259587	-0.9085371	-0.217368
-2.3399692	-2.5025457	-1.3559409	1.47801506	-1.6177323	-0.9238457	-0.1625765
-2.0921016	-2.1718621	-1.0193343	0.6624954	-1.2575759	-0.4780855	-0.0797604
-1.2439015	-1.2688184	-0.4063232	-0.4398054	-1.0434814	0.82313085	-0.0249169
-1.3816396	-1.3444609	-1.0345833	0.43788971	-1.9282095	0.41647815	0.0371787
-0.4714167	-0.0986458	-0.4829143	-2.1033358	0.74900966	0.45024945	0.37277089
0.10693276	-0.573881	-0.470525	0.223503	6.62004223	-0.5947811	-0.6808138
0.45200394	0.25835968	0.15927165	0.43190216	5.9889236	-0.0012782	-0.1936443
0.51710237	-0.1766446	-0.3298795	1.73627028	0.23307544	1.81550885	-0.693747
-0.9142057	-0.5700874	-0.2360253	0.41096365	0.42889753	0.71657483	0.34411833
-0.1814054	-0.3428743	-0.1734663	0.21121177	1.25609277	0.40214325	-0.1614689

Supplemental Table 2 Tab 1

-1.1093674	-0.9945537	-0.8438478	-1.7128468	-0.3622761	-0.2285571	0.11481367
-0.7025496	-0.9177405	-0.6225334	-0.4509554	-0.4367399	0.29698505	-0.2151909
-0.4482494	-0.5353519	0.49503404	-2.2382806	0.12978625	1.1132656	-0.0871025
-0.645432	-0.3108323	-0.4037675	-0.7737149	-0.0937091	0.50523218	0.33459979
-1.2411141	-1.2519703	-0.8373155	1.3742761	-1.3811784	0.37239557	-0.0108562
-1.3486448	-1.1384658	-0.3900017	2.67649811	-1.1014226	0.76053153	0.21017896
-1.155045	-1.1552118	-0.47731	-0.1209953	-0.8800559	0.37864278	-0.0001669
-1.4614011	-0.8491958	-0.6376337	-0.7301013	-0.4067882	0.34718686	0.61220529
-1.0508039	-1.0453552	-0.1841036	1.74741275	-0.1029317	0.751587	0.00544865
0.34064045	-0.2045896	-0.6314821	-0.4631462	-0.0997149	-0.2386063	-0.54523
-0.5007881	-0.4657653	0.02906462	1.14073004	-0.6511403	0.85155336	0.03502276
-0.833779	-0.6547661	-0.8271059	-0.5055316	0.39854612	-0.4055655	0.17901295
-0.0818307	0.30059121	0.24461567	-3.9195603	0.47494639	1.08980725	0.38242189
0.33272684	0.49430187	-0.496328	0.85127994	0.70680848	-0.0840662	0.16157503
0.16200759	-0.4743018	-0.4366656	0.25718704	1.04783971	0.53004865	-0.6363094
-1.4019578	-1.208565	-0.1188747	-0.4707566	0.46502903	0.58747273	0.19339277
-1.2190282	-1.0679913	-0.6532679	-1.4217058	-0.6058472	0.65905827	0.15103698
-0.8983192	-0.6109212	-0.4023707	-0.0163725	-0.140312	0.2538878	0.28739798
-1.4324031	-1.1449581	-0.7296446	0.89916666	-1.3441617	0.78534403	0.28744505
0.91392709	1.26988312	-0.1756047	1.1463306	0.39199712	-0.4186463	0.35595604
-1.1543233	-0.8192732	-0.7747974	-0.4686139	-0.5798147	0.40552263	0.33505009
-1.9041146	-1.9826624	-0.95496	1.69356217	-1.5391814	0.40532499	-0.0785479
-1.3784361	-1.3198574	-0.6169211	1.26264113	-1.4441563	0.36559678	0.05857867
-1.9305934	-1.8991679	-0.6033293	1.00266128	-1.7442002	0.41441193	0.03142552
-0.9844928	-1.2075869	-0.5767893	-1.5278713	-0.2429015	-0.0208244	-0.2230941
0.84751541	0.28862495	-0.0265791	-1.9096334	0.50134854	0.69623705	-0.5588905
-1.3269021	-1.1078236	-0.4757159	-0.1846691	-0.7032191	-0.1870764	0.21907849
-0.5591994	-0.7056678	-0.2170737	-0.2311972	-0.5725829	-0.3595849	-0.1464684
-2.1181898	-2.3395105	-1.0324971	-0.4713886	-2.4330672	0.62508785	-0.2213207

Supplemental Table 2 Tab 1

-1.4025827	-1.8017028	-0.9639279	-1.8841136	-1.7317954	-0.0936348	-0.3991201
-0.8272245	-0.7459005	-0.5757918	0.80134181	-0.8035639	0.16984317	0.08132405
-0.6271653	-1.1044649	-0.1229443	1.03912275	0.2823229	-1.2806587	-0.4772996
-0.5195761	-0.9889045	-0.1645765	0.12692716	-0.5204129	0.49599318	-0.4693284
1.41135331	0.32857473	0.32080102	2.74337241	-0.4078169	-0.8628952	-1.0827786
-1.4386855	-1.9844601	-0.8940011	-1.9848129	-1.661542	-0.1209992	-0.5457747
1.4117661	0.32857473	0.32080102	2.74337241	-0.4081275	-0.8621672	-1.0831914
-0.7611706	-1.5567587	-0.9423509	2.85796154	-2.7863285	0.2062565	-0.795588
0.24557531	0.72728326	-0.6109112	0.31943689	0.32383056	0.42314823	0.48170795
-0.9967564	-1.0957278	-0.7781454	-0.076958	-0.9074957	0.08662087	-0.0989714
-1.412132	-0.801761	0.02086562	0.75293306	-0.0809308	1.80750664	0.61037101
-1.1255702	-1.0246546	-0.5584167	0.07049578	-0.6525837	0.36302055	0.10091558
-0.4591524	-0.4410774	0.18364945	-2.4487274	-0.445891	-0.0549148	0.01807495
-1.8367307	-1.5386961	-0.527651	0.22892291	-0.5308952	0.60863032	0.29803465
-1.2571091	-0.8795619	-0.3917792	-1.1032641	0.56518598	0.41696555	0.37754721
-0.5116458	-0.2431723	-0.2763468	-3.3083102	0.63522256	-0.379815	0.26847351
-1.184995	-1.2966486	-0.8077139	-1.1468535	-0.9095571	0.27692967	-0.1116536
-1.205743	-0.8795239	-0.5344639	0.79356867	-0.8886367	0.31549361	0.3262191
-1.3148437	-1.0130479	-0.5521916	0.82137096	-0.6699959	0.70537925	0.3017958
-0.5291071	0.48295387	0.7800206	1.95250111	1.20141724	0.74060674	1.01206098
-1.8926334	-1.4103394	-1.0997415	0.96363525	-0.6993176	0.32271249	0.48229394
-0.4914538	-0.315969	0.48371828	-0.2637402	0.19875691	1.00227587	0.17548481
-1.6298741	-1.898547	-0.8529637	-0.1576815	-1.6475129	0.68792006	-0.2686728
-0.8349503	-0.9312462	-0.1550882	-0.9253362	-0.2960729	0.22857841	-0.0962959
-0.4229449	-0.6342958	-0.3935108	-0.1701436	0.40066492	-0.2121705	-0.211351
-1.4603904	-1.2162428	-0.572327	-0.5627837	-0.0334904	1.27855144	0.24414758
0.14203192	-0.027879	-0.1690269	-0.7274867	1.01178079	0.52416007	-0.169911
-0.3920798	-0.635558	-0.0603825	-0.0394599	0.1019769	-0.5952304	-0.2434783
-1.2447523	-1.3004757	-0.0406401	1.46540254	-3.5071668	-1.2383687	-0.0557233

Supplemental Table 2 Tab 1

-0.5316539	-0.7903516	0.1583993	1.4048574	-1.1451102	0.24866923	-0.2586978
-0.8919156	-0.6230992	-0.5344116	-1.0125875	-0.4154336	0.89465156	0.26881638
-0.9632058	-0.8593527	-0.1210029	1.5304819	-0.2722024	0.51461014	0.10385308
-0.4005845	-0.5235264	-0.3400863	0.4682741	-0.4272867	0.7405149	-0.1229418
-0.8209198	-0.9253823	-0.3880806	-0.3310241	-0.4974272	0.33215863	-0.1044626
-0.9072842	-0.9092159	-0.147374	1.71277657	-0.4264669	1.0585433	-0.0019317
-0.7541667	-0.7412428	-0.8998412	-2.156521	1.40488738	0.35532468	0.01292393
-1.3598028	-1.2106	-0.7583609	2.19181582	-1.5900893	0.9508607	0.1492028
-1.1009199	-1.1402643	-0.5167329	-4.0193296	-1.9896215	-1.1235875	-0.0393445
-0.7511998	-0.5028265	-0.8974852	1.62471385	-0.7623988	0.37224858	0.24837323
-1.5425865	-1.3857999	-0.6805124	1.30956153	-1.8272186	-0.2372816	0.1567866
-1.1376001	-0.6786019	0.09224212	0.79157456	-4.3524989	-1.5325791	0.45899816
-1.100684	-0.7331103	-0.1862606	0.90263278	-3.2326351	-1.0412628	0.36757367
-0.1399832	-0.0468103	-0.0601094	0.3203348	0.39991653	1.12166501	0.09317295
-1.3612008	-1.1516005	-0.6366277	-1.1437919	-0.9885297	0.45809675	0.20960033
-1.1907623	-1.0893868	-1.0335018	0.40755091	-0.56937	-0.2147882	0.10137548
-1.4151671	-1.3279915	-0.6046311	2.01117039	-1.6233486	0.87366452	0.08717556
-1.5899961	-2.0356533	-0.1481695	2.37469216	-2.0779728	0.8737793	-0.4456572
-0.5897681	-0.7774307	-1.5452436	-2.136092	-0.5587237	-0.7392037	-0.1876626
-1.4636128	-1.459315	-0.6889462	0.06860787	-1.6036772	1.28424169	0.00429775
-1.6985386	-1.714284	-1.2866656	-1.3957906	-0.4299695	0.90547343	-0.0157454
-1.2934722	-1.0368322	-0.2235269	0.28251987	-0.9687838	0.70475505	0.25664008
-1.0169484	-1.1877308	-0.2278295	0.79381975	0.01312877	0.28715369	-0.1707824
-1.434204	-1.1607618	-0.9406856	-0.4052257	-0.3382671	0.64003338	0.27344218
-0.9333971	-0.9406381	-0.2168007	0.6361234	0.0859222	0.55542493	-0.0072409
-1.736092	-1.4196113	-0.958777	1.04781959	-0.8320483	0.42094478	0.31648063
-0.7984279	-0.6622728	-0.3456763	-0.6607823	-0.2259452	-0.0243436	0.13615514
-0.9010678	-0.2100604	-0.3647468	-1.1170009	0.53991168	0.9114999	0.69100745
-0.5718231	-0.300191	0.0270622	-0.443784	0.31164302	0.81370864	0.27163206

Supplemental Table 2 Tab 1

-0.9882024	-0.9171125	-0.726745	-0.8047688	-0.7542197	0.02036896	0.07108995
-0.8295952	-1.191537	-0.0542179	0.60323629	-0.7268677	1.70735297	-0.3619418
-1.0261	-0.7882384	-0.4416463	-1.5149442	-0.4648821	0.72491911	0.23786162
-0.6923834	-0.845413	-0.3476156	-0.0780166	-0.3168467	0.25081091	-0.1530296
-1.5877279	-1.1450007	-0.253537	0.80243902	-0.6206934	-0.0402709	0.44272713
-1.0065137	-0.8275942	-0.2197556	-1.1500075	0.60176075	-0.8015734	0.17891946
-1.1915868	-1.0896226	-0.5077463	1.40817945	-0.5785457	0.01088017	0.10196416
-0.1162102	0.17551043	0.18180988	0.68242831	0.128809	-0.0583616	0.29172068
-1.0013578	-1.1043864	-0.437526	-0.9649046	-0.6015284	0.03000994	-0.1030286
-1.577539	-1.3311506	-0.7168125	0.19415519	-0.7298337	0.32830867	0.24638838
-1.5454688	-1.2299157	-0.6498639	1.50207314	-1.0601311	0.42707928	0.31555304
-1.4362049	-0.7207082	-0.1224761	0.73805131	0.08290983	-0.0729996	0.71549668
-1.2184289	-0.6897854	-0.6783967	-1.2528084	-0.1481243	0.0091112	0.52864344
-1.1151673	-1.1634043	-0.63038	-0.0951146	-0.0461345	-0.0767009	-0.048237
-1.1965774	-1.0261154	-0.2955103	1.09435753	-0.3054031	1.35665864	0.17046194
-0.8467925	-0.821863	-0.9551768	-2.3031095	-0.2654551	0.10243788	0.02492949
-0.5897141	-0.4641584	-0.5852948	3.35899172	-0.2203817	-0.3043557	0.12555567
-0.7896074	-1.2039458	-0.4568531	0.4879447	-0.8878261	0.55040624	-0.4143384
-1.614168	-1.2672778	-0.6963357	-0.8175891	-0.3835658	0.40469488	0.34689025
-1.1618687	-0.952752	-0.4507052	1.57843907	-0.7016056	1.00756322	0.20911677
-0.0332523	0.06769417	-0.0178755	-1.2557902	0.79534743	0.23150336	0.10094648
-1.6385048	-1.3541362	-1.2827961	-0.6273692	-1.5351023	0.43594836	0.28436864
-1.3188035	-1.1588352	-0.9885094	1.472814	-1.2595507	-0.0406008	0.15996834
0.29837387	0.41123574	-0.7829349	0.1186337	0.11079963	0.36957375	0.11286187
-1.8145043	-1.3331003	-0.8789474	0.73546997	-1.1355435	0.62957688	0.48140397
-2.1747849	-1.955549	-1.5372051	0.96403997	-1.7198677	-0.5202283	0.21923595
-1.1364824	-1.1572005	-0.7422333	1.4389802	-0.7645781	1.40435793	-0.0207181
-0.2889016	-1.1929448	-1.1535449	0.11076098	-3.5142925	-2.0591155	-0.9040432
-1.250929	-1.340144	-1.2282844	0.66274121	-0.1188488	-0.1686138	-0.0892149

Supplemental Table 2 Tab 1

-1.132241	-0.8322395	-0.3545398	-0.2578488	-0.1209973	0.1103771	0.30000154
-0.7377526	-1.0608406	0.12812165	2.28754493	-1.3086041	1.20678558	-0.323088
-1.2222647	-1.4218252	-0.6466611	-1.0000906	0.06169925	0.45628942	-0.1995606
-1.1590973	-1.2053171	-0.7936357	1.05217688	-1.0886118	0.36272593	-0.0462199
-1.2632903	-1.129778	-0.9693839	-1.2018073	-0.2933868	-0.2121024	0.13351229
-0.3684652	-0.6400202	-1.0030598	-0.1491763	-0.0556537	0.03787915	-0.271555
-0.2436931	-0.2796834	0.08737897	0.38092676	0.46031008	0.25657378	-0.0359903
-0.6649215	-0.8641987	-0.5024422	1.70750034	-1.0122785	1.30623992	-0.1992773
-0.2893905	-0.959759	-0.2040598	0.48245326	0.13735106	0.38442305	-0.6703685
-1.1421391	-1.1588012	-0.1611449	1.46724167	-0.9630574	1.45466827	-0.016662
0.51827494	0.80016478	-0.5974299	-1.0555508	0.8886045	1.27591114	0.28188984
-0.127122	-0.2518973	0.59474909	2.84780697	-0.0090389	0.20184355	-0.1247752
-1.3383737	-1.1706463	-0.5370577	-0.6660283	-0.6192286	-0.0100468	0.16772745
-0.5971045	-0.5869158	-0.4718652	0.69114451	-0.2323305	0.57987277	0.01018863
-0.6724716	-0.7671253	-0.3392106	1.529929	-0.8563926	0.95992346	-0.0946537
-0.9817834	-0.8053355	-0.4807344	0.03410441	-0.6509891	0.77341036	0.17644783
-1.4965753	-1.6938261	-1.3671397	2.05139938	-1.8126444	0.68966408	-0.1972508
-0.1898844	-0.2330232	0.45610139	-0.0652073	0.20818076	1.29581254	-0.0431388
-1.1456666	-1.1144445	-0.779757	-0.0493882	-0.9895202	0.44675001	0.03122212
-1.0250959	-1.2843521	-0.1431976	0.11990946	-0.7778869	0.6145707	-0.2592562
-1.1995609	-1.0638604	-0.3480842	1.53825076	-0.806803	1.68470377	0.13570055
-1.3379895	-1.1194569	-1.0059309	1.82272187	-0.7996059	-0.0380501	0.21853264
-0.9694384	-0.6314946	-0.7467319	-0.1571997	0.22082568	-0.2048998	0.33794375
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-1.2680008	-1.3184314	-0.6153995	-0.3848774	-0.578832	0.51746191	-0.0504306
-2.5801106	-2.0137157	-1.5297928	-3.219354	-0.4476803	-1.2526945	0.56639494
-1.2810036	-1.8624455	-0.8563615	0.98495087	-1.1277579	0.95054235	-0.5814419
-0.1747136	-0.4946353	-0.1340901	2.23727758	-0.3528925	1.15788275	-0.3199217

Supplemental Table 2 Tab 1

-0.6986534	-0.5802961	-0.0989485	1.6131604	0.03792216	0.74653719	0.11835727
-0.8098977	-0.8191826	-0.4452609	-1.7851613	0.33634751	0.37098152	-0.0092849
-1.3863943	-1.1416762	-1.090739	0.76847592	-1.208311	-0.37096	0.24471807
-0.9067009	-0.8630467	-0.6674793	-0.272212	-0.1419096	0.52879165	0.04365424
-1.0209827	-0.9108943	-0.4404607	1.8453812	-0.8766992	0.31338607	0.11008845
0.17702963	-0.2878804	-0.0576943	1.19385623	-0.4458125	0.96059332	-0.46491
-1.3190765	-0.9217829	-0.5973292	1.82992593	-1.5562395	0.05138509	0.39729363
-1.0726569	-1.0355753	-0.2873464	1.48470055	-0.712229	0.48010952	0.03708154
-0.3154154	-0.2519777	-0.1701062	0.09612789	0.3904804	-0.0502884	0.06343771
-1.3832365	-1.2257	-0.3640727	0.17870129	-0.7531249	0.13153344	0.15753651
-0.9294871	-0.8903997	-0.4396265	-0.372147	0.29016337	0.62332719	0.0390874
-0.939229	-0.8042778	-0.1239348	0.02290769	-0.4554318	0.8515195	0.1349512
-1.7958026	-1.5381274	-0.8774874	1.22363684	-1.399804	0.77648336	0.25767515
-1.7203569	-1.6193816	-0.3670294	1.37911614	-1.0372043	0.69729242	0.10097533
-0.9396108	-0.7818763	-0.8148612	-1.5724067	-0.271429	-0.1257534	0.15773444
-0.9115855	-0.7819421	-0.5829684	1.91782434	0.06709613	0.23775399	0.12964342
-0.7951814	-0.6099272	-1.0738857	-0.948041	-0.1804755	-0.084996	0.18525416
-1.477295	-1.3365785	-0.9604526	0.7367274	-0.3119174	-0.381998	0.14071641
-1.3174545	-1.3108338	-0.6637246	0.49430172	-0.4537077	0.06792374	0.00662071
-1.5845079	-1.1903737	-0.3531166	-0.7046113	-0.5117819	0.87206741	0.39413426
-0.3828194	-0.5447754	-0.3163073	2.59386768	-0.5450831	0.80492623	-0.1619561
-0.8842	-0.5726941	-0.7797727	-0.5225683	0.1517644	-0.428514	0.31150598
-0.9712247	-0.56794	-0.7233757	0.06655018	-0.4630337	0.31291706	0.40328468
-0.9410339	-0.9375106	-0.5836848	0.37298653	-0.5994867	0.78858705	0.00352331
-1.3257126	-1.0769096	-0.4355559	-0.4730844	-0.4025348	0.17299374	0.24880301
-1.2220572	-1.0280876	-0.7871899	-1.2246159	-0.0146489	0.65582153	0.19396956
-0.8575459	-0.6682176	-0.2009478	0.48308549	-0.0186953	0.77849686	0.18932831
-1.5082187	-1.7835707	-0.544883	0.31435614	-1.7442056	0.86199404	-0.2753519
0.7844691	0.80336592	0.35339019	-3.359085	0.98389734	-0.2911654	0.01889682

Supplemental Table 2 Tab 1

-1.7590351	-1.1831655	-0.0822773	1.31018844	-1.9208839	1.32976883	0.57586962
0.22516211	0.12659637	0.20141529	1.89132825	0.30949173	-0.0549147	-0.0985657
-0.5876779	-0.1657681	0.28077599	-2.6556348	0.12510765	-1.0248209	0.42190983
-0.4645256	-0.214094	-0.8640165	0.62488566	-0.4587455	-0.5298941	0.25043165
-0.0823294	0.0926773	0.48523821	-0.2849978	0.35281573	0.52334576	0.17500669
-0.2567064	0.58521556	-0.3280441	1.07243214	-0.2580441	-0.4078528	0.84192195
-0.5713979	-0.7224217	-0.4650522	0.87884243	-0.5831124	1.02411921	-0.1510239
-0.9249992	-0.8181545	-0.2756085	0.37013172	-0.6239516	1.2548998	0.10684466
-1.6064535	-1.7029204	-0.5056739	2.51183703	-1.0230715	0.93374518	-0.0964669
-0.6625348	-1.0504161	-0.4311406	1.45461522	-1.016929	0.32117185	-0.3878813
-0.3672224	-0.5677393	-0.7667465	-1.3871907	0.49091979	0.35950244	-0.2005169
-0.7358016	-1.1013964	-0.2838847	2.15806723	-1.5848563	0.31234407	-0.3655948
-1.3926051	-1.0383823	-0.8301825	-0.680067	-0.6462638	0.1318312	0.35422276
-0.668167	-0.4722524	-0.6596548	0.5089471	-0.9205354	0.41111497	0.19591464
-1.2779652	-1.3865999	-0.8440899	0.95911102	-0.9671082	0.12270242	-0.1086348
-0.49792	-0.5619048	-0.5147937	-1.4007067	0.03655785	0.20953355	-0.0639848
-0.2107053	-0.2593303	-0.0631599	-0.0986997	0.83563754	0.82594751	-0.048625
-0.99585	-0.6091482	-0.4470484	1.01140251	-0.6696721	0.34136257	0.38670186
-1.3220757	-1.3943295	-0.7534618	0.82274249	-0.5845015	0.59066778	-0.0722539
-0.8174276	-1.0333176	-0.743875	1.1027247	-1.2716566	0.43730914	-0.21589
-0.9836555	-1.2006185	-0.2054215	-0.6702	-0.1258198	0.68254289	-0.216963
-0.9651765	-0.796938	-0.6116572	-1.4416842	-0.5761742	0.11345415	0.1682385
-1.0866983	-1.2318585	-1.5328516	-0.6830723	-1.4828022	-0.2834906	-0.1451603
-0.2354085	-0.0545171	-0.4178436	-0.7894056	0.38577458	-0.6584747	0.18089135
-1.2025229	-0.9610804	-0.7500381	-1.4732699	-0.1385106	-0.2131589	0.2414425
-0.7521848	-0.3265008	-0.1540214	-0.6123295	0.06571748	0.44970256	0.42568401
-1.2682805	-1.0831429	-0.3375702	0.60160999	-1.0468676	0.16924625	0.18513768
-0.9631563	-0.7944437	-0.1913873	0.62620417	0.06230526	0.45748825	0.16871261
-1.0584329	-0.9352278	-0.7135874	0.94314014	-0.4821522	0.55814149	0.1232051

Supplemental Table 2 Tab 1

-0.6843562	-0.3754477	0.06495349	1.64356323	0.10236172	-0.9462868	0.30890845
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-0.4927963	-1.3076463	-0.8001351	-1.3552629	-1.0799617	0.24947422	-0.81485
-0.2036169	-0.3811613	-0.580177	1.74815663	-0.2886993	0.08151333	-0.1775445
-1.1437067	-1.0355891	-1.0917286	-0.5141571	-0.9406368	-0.5643757	0.10811762
-0.5294496	-2.0056959	-1.1942739	2.8732834	-2.9762529	0.73704404	-1.4762463
0.54131537	-0.0400084	-0.1252615	-1.1169823	-0.7390596	-0.9687954	-0.5813238
-0.9371186	-0.9171198	-0.2143445	2.5394325	-1.5622655	0.61629205	0.01999887
-1.1399248	-0.9608544	-0.6144719	0.98025714	-1.4202535	0.48869632	0.17907037
-0.4856986	-1.1198418	-1.1414905	0.54527413	-1.2555581	-0.1992238	-0.6341432
-0.0042468	-0.1097372	-0.4027758	-0.417226	-0.4817632	-0.1677266	-0.1054904
-0.5714444	-0.3905011	0.15378845	0.86351353	-0.8923125	0.57547265	0.1809433
-0.5669971	-1.2373754	-0.2187144	2.89321724	-2.4462321	0.40916692	-0.6703783
-1.1983376	-0.9842763	-0.5555661	1.15103533	-1.2399966	0.33956488	0.21406137
-1.5851624	-1.6124369	-0.558401	-0.0919389	-1.2211893	0.21415208	-0.0272745
-1.3743238	-0.7665432	-1.022557	-1.1475081	0.02107029	0.20221023	0.60778058
-1.6971742	-2.1285026	-0.803658	-0.1153533	-1.8793876	-0.0572664	-0.4313285
-1.1052309	-0.6474078	-0.1446235	1.05652194	-0.1897298	1.06609517	0.45782312
-1.2468601	-1.0294025	-0.6450639	0.04193591	-1.2168754	0.81677541	0.21745767
-0.6130185	0.39814212	3.31186155	1.99786247	-2.9284989	-0.1466078	1.01116058
-1.5953576	-1.8864793	-0.8941038	0.65049676	-2.755103	0.41825539	-0.2911217
-1.3513438	-1.210111	-0.6731529	0.97203579	-0.8495463	0.64361105	0.14123278
-1.2009898	-1.0131259	-1.6453795	-1.4458309	-0.712955	-0.8125333	0.18786392
-0.576516	-0.6172263	-1.8557213	-1.9294863	-0.5271562	-1.6689803	-0.0407104
-1.2899206	-1.3509818	-0.584325	0.87241665	-1.7716038	1.23917265	-0.0610613
-2.0037208	-1.6298941	-1.1326885	0.1782423	-0.7797473	0.16037716	0.37382666
-0.7704555	-0.7717607	-0.2064137	-0.5171014	-0.0827266	0.80947707	-0.0013052
-1.300428	-1.1318035	-0.4043398	-0.3436793	0.14424692	0.09387781	0.16862452
-1.4701986	-1.4466671	-0.5659074	-0.5109514	-0.7673329	0.65529711	0.02353154

Supplemental Table 2 Tab 1

-1.742039	-1.6391491	-0.4519664	1.7604187	-1.6871885	1.25587257	0.10288985
-1.6698951	-1.4171632	-2.2689123	1.91153294	-1.8196343	0.06757253	0.25273191
-1.1513939	-0.7946124	-0.4886519	1.47080743	-0.7824044	0.85428206	0.35678142
-0.9561588	-1.0582356	-0.5492118	0.79778705	-0.7924796	0.40232242	-0.1020768
-1.7747985	-1.8654789	-1.3024468	-0.2077218	-1.4870438	0.24598894	-0.0906804
-1.5857797	-2.5357108	-1.5653399	1.40135015	-0.7034167	-0.0403052	-0.9499311
-1.352091	-1.1393966	-0.8197211	1.03228393	-1.3092478	-0.2785312	0.21269442
-1.6175662	-1.3894433	-0.6067563	2.72708899	-1.8536005	1.06845257	0.22812293
-0.8934933	-1.1195405	-1.0152731	-0.237587	-1.4267724	0.09482908	-0.2260472
-1.4737647	-1.2772952	-1.2971467	0.59459576	-1.4041127	-0.2485649	0.19646953
-0.9123742	-0.8795342	-0.6532867	0.47583168	-0.5663331	0.1657346	0.03284001
-0.9554364	-0.7868634	-0.0384846	0.77598604	-0.1629816	0.8324679	0.16857302
-1.9651248	-1.8988605	-0.9792811	0.88373277	-2.0488178	0.97594839	0.06626437
-1.3354852	-0.9001434	-1.2534811	-0.9781437	-0.3669731	-0.3864365	0.43534172
-1.37944	-1.3021944	-1.9928362	0.60386361	-2.0757827	0.61727026	0.07724562
-1.9089405	-2.0439382	-1.5278439	1.19100939	-1.5774258	-0.0937358	-0.1349977
-0.5361763	-0.593772	-0.055897	1.95375698	-0.0863817	0.39338746	-0.0575956
0.11416479	-0.2519387	-0.7205232	-1.461879	0.91049682	-0.1844603	-0.3661035
-1.216054	-1.0322301	-0.7863462	1.2197107	-0.6647593	0.4323388	0.18382385
-0.1663769	-0.2066551	-0.3424167	1.16163359	-0.5622836	0.78918931	-0.0402782
-0.7182689	-0.6252866	-0.7252628	0.64759555	-0.1039613	0.34901266	0.09298228
-0.2077498	-0.1192386	-0.1389213	-0.0105023	0.37160734	0.93487345	0.0885112
-0.5925399	-0.3556921	-0.5155584	1.85770267	-0.3275813	0.79503782	0.23684776
-1.228897	-1.3412669	-0.562712	-1.3469405	0.00169314	0.67339862	-0.11237
-1.6905152	-1.341507	-0.9760027	-0.6206122	-0.8981367	0.15898998	0.34900819
-0.8693508	-0.95414	-0.4430275	0.40753923	-0.7028607	0.95089604	-0.0847892
-1.2116572	-0.9873379	-0.9485408	0.53265304	-1.0403227	0.68424755	0.22431935
-0.8851117	-1.0163669	-0.3339776	1.09720775	-0.0411848	0.28714863	-0.1312551
1.03517165	-0.2580805	-0.119129	2.11702676	-0.7015792	-0.222686	-1.2932522

Supplemental Table 2 Tab 1

-0.5547889	-0.4324373	-0.1990577	0.27523848	-0.3449682	0.06394164	0.12235164
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-1.1629235	-1.0464107	-0.3904654	-0.7672652	-0.512893	1.01282761	0.11651282
-1.0229481	-1.1194989	-0.240931	-0.1320325	-0.7282812	0.1635924	-0.0965508
-0.8854434	-0.680794	-1.0017724	-2.1321472	-0.7199518	0.74694604	0.20464935
0.23316877	-0.0858571	-0.722694	2.46987159	0.21175041	0.64675823	-0.3190259
-1.2498199	-1.193209	-0.9171153	-1.3218367	-0.6476246	0.39945483	0.05661088
-0.6057766	-0.5354045	-0.1550023	-0.0342548	-0.238166	-0.2946328	0.07037217
-0.6057766	-0.4979509	-0.1348659	-0.0167726	-0.2938561	-0.289376	0.10782577
-0.8514063	-0.863068	-0.4091286	1.27361616	-0.6953199	0.86354655	-0.0116617
-1.6022097	-1.7626529	-1.312811	0.08048668	-0.7951477	-0.3899451	-0.1604432
0.52780946	0.78608085	0.04448326	-4.0293799	2.63469348	-1.0425729	0.25827139
-0.7527798	-0.3201298	-0.80267	-0.2663941	0.26329746	0.55378351	0.43264993
-0.27365	-0.2468402	-0.1988058	-0.8089545	-1.6634468	-0.7543953	0.02680979
-0.1777951	-0.7253615	0.8058567	3.32996415	-0.9700609	1.55206536	-0.5475663
-1.2561932	-1.323181	-0.4308434	-0.0591938	-0.9084971	0.91033011	-0.0669878
-1.3637572	-1.9679137	-0.922917	-0.0896779	-1.6364742	0.14795992	-0.6041565
-0.286522	-0.5988464	-0.3823482	0.08157731	-0.8448276	0.36193081	-0.3123244
-2.4856335	-2.02965	-1.763067	0.89923672	-2.6565307	0.23850398	0.45598342
-1.2132321	-1.8702999	-0.839737	-0.3230795	-0.9014988	0.27037339	-0.6570677
-1.0236586	-0.9472108	-0.517543	1.72244791	-0.895182	1.1362615	0.07644782
-0.4395349	-1.3921891	0.37200143	2.1000171	-1.1466109	0.39319064	-0.9526542
-0.4135921	-1.4872786	-0.2907558	0.71058895	-1.3669936	0.6617914	-1.0736866
-0.3526229	-0.3774798	0.14964524	-2.2016802	1.00849721	0.40334495	-0.0248569
-0.896189	-0.7336145	-0.6151336	1.14955869	-1.3592455	0.06821643	0.16257452
-0.3554335	-0.3053535	-0.4788512	0.23515668	-0.3794653	0.10908715	0.05008004
-0.5005096	-0.3769875	-0.474687	1.05848675	-0.4796916	0.65194274	0.12352214
-0.8205625	-1.0022111	-0.2151333	-0.1553935	-0.7003401	0.86727752	-0.1816486
-1.4152322	-1.6889716	-1.3633252	-0.6919025	-1.7972738	0.07963025	-0.2737393

Supplemental Table 2 Tab 1

-0.948931	-1.2250873	-0.1016563	3.25908168	-0.575496	0.98346718	-0.2761563
-0.4841168	-0.363493	-0.507664	-1.1812544	0.18529072	0.40149761	0.12062381
-1.2454687	-1.2137572	-0.6938463	0.59814177	-1.021499	0.46838289	0.0317116
-0.3103931	-0.9672792	0.39691067	0.76511971	-0.839569	0.75646332	-0.6568861
0.35928746	-0.0124127	0.70881692	2.90273642	-0.3962268	0.52210302	-0.3717001
-0.6003389	-0.1269514	0.14752152	0.19952419	0.45577402	0.75991747	0.47338747
-1.8387638	-1.3390248	-1.2480723	-0.227279	-0.8394564	0.19337064	0.49973908
-0.9859927	-1.293852	-0.7360106	0.95922765	-1.656186	1.12458075	-0.3078593
-1.3309033	-1.9284333	-0.0840301	3.59941209	-2.4313507	1.63122745	-0.59753
-0.4183058	-0.7512893	-0.0603489	3.73966969	-1.213387	0.20810531	-0.3329835
-1.3136324	-1.6654977	0.03387512	3.7576858	-2.2271052	-0.2350641	-0.3518653
-0.4726264	-1.1619664	0.16668678	4.25184766	-2.5039073	-0.4382416	-0.6893399
-1.2615646	-1.6738353	0.29754303	4.23124303	-2.275721	0.64532985	-0.4122707
-1.8362581	-2.1693977	0.24949845	2.30317572	-2.3471097	1.07127639	-0.3331396
-1.2425981	-0.9403746	-0.7581182	1.46305165	-1.3522909	-0.2149607	0.30222344
-1.7914207	-1.4737835	-1.0892321	0.46856757	-0.3799909	0.10775237	0.31763714
-1.0466265	-0.970633	-0.5008458	-0.2480561	-0.4641971	0.98204008	0.07599345
-0.538872	-0.9200005	0.27857915	1.9301599	-0.1251755	1.12374907	-0.3811284
-0.3119921	-0.2025998	-0.0503957	1.22648787	-0.1524516	-0.2733396	0.10939225
-0.5880551	-0.3715729	0.17186288	0.14229613	0.7412942	0.63227239	0.21648228
-0.9042244	-1.7374884	-1.1902267	-1.7555946	-0.8825598	-0.1398274	-0.8332639
-1.3199101	-2.0970358	0.02045782	3.08264923	-2.1586939	0.97626111	-0.7771256
-1.2348416	-1.284354	-0.7323656	1.057805	-1.4273285	0.60878787	-0.0495124
-1.4116817	-1.2818891	-0.9536009	1.11862308	-2.0946991	0.55559774	0.1297926
-1.2848349	-0.921057	-0.9263646	-0.4795572	-0.1797425	0.58335016	0.36377799
-1.1645589	-0.9936439	-0.4335748	0.76174971	-0.8101529	0.47108558	0.17091504
-1.5744077	-1.1417694	-0.5372028	0.6937372	-1.6006713	0.92205537	0.43263828
-1.5161453	-1.4428158	-0.9683374	0.83266341	-1.1340649	0.70040762	0.07332956
-0.9596464	-2.1730854	-0.3234296	0.73886534	-1.6960187	1.24216613	-1.2134389

Supplemental Table 2 Tab 1

-1.6639807	-1.7767602	-1.4281495	2.00082662	-2.107116	0.63726686	-0.1127794
-0.7717629	-0.8230007	-0.8245535	-3.0534853	0.14319634	0.18301049	-0.0512378
-0.6321193	-1.0835711	0.12853276	0.18672319	-0.8973277	2.19446639	-0.4514518
-1.5494158	-0.3674315	-0.3744168	-0.4256929	-0.1531443	-0.0740632	1.18198431
-0.4035266	0.21386751	0.55860199	-3.559384	0.89259258	0.95426562	0.61739411
-0.0677458	-0.3957117	-0.1910816	2.15641218	-1.0188808	1.2846822	-0.3279659
0.00779911	-0.0844768	-0.3014722	-1.7359994	0.42183151	1.15570764	-0.0922759
-1.0871685	-0.9825366	-0.2621861	2.25832691	-0.7876958	0.41891555	0.10463196
-1.0580225	-0.9192089	-0.084757	0.39852373	-0.1425874	0.62483545	0.13881363
-1.3579496	-0.741555	-1.0582952	2.62264996	-1.298662	0.24458607	0.61639459
-0.7986382	-0.6199557	-0.1308032	-0.009276	0.14784221	-0.1415681	0.17868254
-1.2781588	-1.105079	-0.8916883	-0.6506445	-0.8355477	0.54151768	0.17307986
-1.1048077	-0.9837497	-0.2698594	1.45395553	-0.7504116	0.64000155	0.12105792
-1.0447596	-0.7919483	-0.5784112	0.43302366	-1.5122906	0.4672156	0.25281132
-0.8105107	-0.8369898	-0.8683311	0.25702726	-0.6222537	-0.4945669	-0.0264792
0.28570828	0.09995179	0.04458258	0.99490493	-0.1191501	1.28682891	-0.1857565
-0.7435566	-0.9830606	-1.0273729	0.40596387	-1.0394001	0.15908167	-0.239504
-0.8900668	-1.6821717	0.28385734	3.07071532	-1.7661288	0.21590586	-0.7921049
-0.5708654	-0.676636	0.51162654	-0.0421354	-0.2784153	0.18389051	-0.1057705
-1.4527	-1.2885983	-1.5001207	1.02535353	-2.119015	0.02069991	0.16410161
-0.5421132	-0.0406212	-0.4433755	0.61288301	-0.485145	0.4791034	0.50149202
-1.2275959	-1.5376448	-0.7939738	1.7475434	-0.4668551	-0.9874691	-0.3100489
-1.0097531	-1.1274127	-0.2935325	2.9367872	-0.568011	0.79019926	-0.1176597
-1.1002756	-0.8766409	-0.6153634	-0.7613074	0.23117195	0.67546125	0.22363468
-0.6978089	-0.7449383	-0.2040574	2.38713216	-0.1640779	0.65962754	-0.0471294
-1.6869327	-2.1178946	-1.1571032	-0.6193826	-2.2736712	-0.1072937	-0.4309619
-0.9798853	-1.1088387	-0.5988348	1.52885839	-1.0186286	1.06640316	-0.1289533
-1.1527599	-0.7040795	-0.1676779	-0.2835812	-0.0512863	0.44682715	0.44868041
-0.7426661	-0.4900078	-0.1387113	0.1462403	3.8272826	0.1605835	0.25265829

Supplemental Table 2 Tab 1

-0.9478925	-1.1627661	0.20179072	2.12476129	-1.1649041	1.49536462	-0.2148736
-0.5624273	-0.4318355	-0.2809905	-0.7412228	-0.3993061	0.1249459	0.13059177
0.6569293	-0.3976383	0.95013965	-0.4581643	0.34636509	-0.3233622	-1.0545676
-0.2534497	0.01120981	-0.1362171	1.07841423	-0.4648226	-0.6237664	0.26465952
-0.1773746	0.45334846	-0.0082004	-0.2527591	1.05863217	-0.2651077	0.63072301
0.40255489	-0.3287425	-0.3530718	0.54641376	0.08078428	-0.3635187	-0.7312974
-0.2735044	0.23365705	-0.0170821	-3.2115082	-0.0625583	-0.1153529	0.50716144
-0.0536995	0.28859263	-0.2685911	-2.5149234	-0.1488253	-0.1552589	0.34229216
-0.8364762	-0.7333773	-0.6031582	-2.5025165	-0.3771359	-0.6149243	0.10309889
-1.5290369	-1.3157776	-1.0086035	2.03363358	-1.6214864	0.86159245	0.21325928
-1.2506263	-0.6922367	-1.0491425	0.45356043	-0.8365599	-0.0771684	0.55838962
-1.0273266	-0.9821154	-0.4104101	-0.9199586	0.16511401	-0.711314	0.04521118
-1.5199687	-1.4194955	-0.7260816	1.21472805	-1.8809961	0.403164	0.10047319
-0.7238807	-0.6066664	-0.3927254	-0.0581535	0.00021241	1.05809592	0.11721435
-0.9992327	-0.6345027	-0.3552337	-0.3056045	0.04747728	0.80965118	0.36473002
-1.0897172	-1.0813932	0.60978142	2.28501718	-0.2405587	1.76038553	0.00832394
-0.868947	-0.6026645	-0.4205555	-1.5461788	-0.7904799	-0.3143411	0.26628254
-1.3660317	-1.6553239	-1.0269516	1.52036293	-1.7125813	1.16224537	-0.2892922
-1.346339	-1.2849158	-0.1505778	2.21652973	-1.6858483	0.11897745	0.06142318
-1.189851	-1.3644807	-2.001718	-2.2891293	-2.1349144	-1.8702786	-0.1746296
0.17298473	-0.1414554	0.25580797	2.83137961	-0.9550968	0.43623627	-0.3144402
-1.4149854	-1.2895138	-0.8980713	3.36283962	-2.3982807	0.62372003	0.1254716
-0.8499452	-0.7537496	-0.1563741	1.61935161	0.49695077	-0.1067624	0.09619554
-0.6589417	-0.641294	-0.3717889	-0.4725497	0.12313621	0.84543198	0.01764765
-1.8248827	-1.8051674	-0.7815856	-0.8150332	-1.1722918	-0.0914457	0.01971529
-1.2094525	-1.243485	-0.8210137	1.25687697	-0.8547737	-0.0155607	-0.0340325
-0.7573336	0.43025222	0.3968929	1.01575649	0.4876761	0.89162651	1.1875858
-1.2001292	-0.2089841	0.07189854	1.48905005	-0.2373279	0.30783762	0.99114513
-1.0997831	0.22136146	0.17747648	0.52922396	0.12129169	0.29728082	1.32114461

Supplemental Table 2 Tab 1

-0.3341571	0.66534314	-0.4078091	1.21982002	-0.209847	-0.5011628	0.99950028
-0.8852076	-0.7280942	-0.3525336	0.21579894	-1.2816585	0.2339266	0.15711335
-1.2991105	-1.6740683	-1.4263287	-2.2221294	-0.1829811	-0.2350711	-0.3749578
-0.6660517	-0.841306	-0.5301076	0.13007084	-1.4459233	0.76381185	-0.1752543
-0.5617342	-0.5738621	-0.7956598	-0.8247805	-0.2005679	-0.5212153	-0.0121279
-0.511816	-1.0929274	-0.4088804	1.05407412	-0.1901435	-0.5659281	-0.5811114
-1.1704145	-1.3349487	-0.6042798	1.93659671	-1.1822072	-0.0353504	-0.1645342
-1.1543549	-0.9278172	-0.6465669	0.36813969	-0.8252492	0.8206266	0.22653773
0.48817867	-0.3514333	-0.2315435	0.41356956	-0.0825868	0.33741178	-0.8396119
-2.0007027	-1.486665	-1.3509928	-1.1049424	-0.6082459	-0.3407904	0.51403778
-0.7144659	-0.9604357	-0.9506766	0.70825196	-0.7835043	0.26221209	-0.2459698
-1.2154108	-1.2197624	-0.9913141	-0.7981449	-0.591972	0.28212005	-0.0043516
-1.2511964	-0.8742281	-0.7132211	0.91835293	0.1622984	-0.263154	0.37696838
0.0732382	0.01120756	-0.6190975	0.40611615	0.35755966	-1.0871298	-0.0620306
-1.8045062	-2.2702312	-1.6076354	2.3609856	-2.956452	0.23813086	-0.465725
-1.1177346	-1.2190387	-1.6284909	0.55013882	-1.7816761	0.13912851	-0.1013041
-1.1075013	-1.1193121	-0.1558169	1.41500873	-1.1361966	0.47450721	-0.0118108
-0.6934247	-1.6877538	0.58877376	2.60874896	-1.2192628	0.95418567	-0.9943291
-0.7119548	-0.9971674	0.15492989	0.94810026	-0.363009	0.92431905	-0.2852126
-1.939267	-2.2743539	-0.3336967	-2.089097	0.61563354	0.58142302	-0.3350869
-0.3316818	-1.8965367	-1.9056185	-1.4765716	-1.5628076	-2.9783559	-1.5648549
0.14650744	-0.1153206	0.28130353	1.01822919	0.32256526	0.09192029	-0.261828
-0.2487651	-0.2355147	-0.3206099	1.08844254	-0.4131953	0.56616336	0.01325046
-1.6989132	-1.4677496	-0.5123712	-0.8654205	-0.9021522	0.69746208	0.23116361
-1.9040786	-1.533279	-0.898142	-0.4286965	0.08449427	-0.2528215	0.3707996
-0.8167598	-1.2520161	-1.7971008	-3.5026764	-1.371804	0.15085083	-0.4352563
-0.3528192	-0.031565	0.00401559	-1.7735763	1.0563683	0.61494863	0.32125421
-0.6337919	-0.738941	-0.9985231	-1.5103971	-0.5972648	0.4334842	-0.1051491
-1.6828206	-1.2398846	-0.7227649	-1.1221844	-0.3385181	0.33843532	0.44293595

Supplemental Table 2 Tab 1

-1.9106645	-1.6600184	-1.2384287	1.4581036	-1.253906	0.47545301	0.25064619
-0.1772031	0.07898512	0.07589485	-0.0892855	-0.4809142	0.54437651	0.25618819
-0.5163906	-1.2261044	-0.0603955	-2.0089977	-0.6478904	1.10455389	-0.7097137
-0.6003494	-0.263763	-0.7585641	-2.3990455	-0.0309729	0.05644306	0.33658645
-1.4585529	-1.9045121	-0.3777034	1.77442923	-2.546778	-1.0124452	-0.4459592
-0.9709684	-1.1436283	-0.3307744	0.72228895	0.06069874	0.600345	-0.1726599
-1.1922226	-1.4680284	-0.6596781	2.03474653	-0.4595658	0.54314077	-0.2758057
-1.8512607	-1.9929797	-1.9004679	1.39824995	-2.2686157	0.2871091	-0.141719
-0.5196599	0.57130767	-0.5230033	1.01482309	-0.6878964	-0.4651234	1.09096758
-0.2994362	0.9780461	-0.30404	4.74150772	-0.8643488	-0.8580286	1.27748233
-1.4966276	-1.5037857	-0.6293235	0.16869917	-0.8494238	-0.1012198	-0.0071581
-1.334658	-0.9360375	-0.6147018	0.19521203	-0.1483865	0.32281507	0.39862057
-0.5478347	-0.8369629	-0.055707	0.3077968	-0.4334287	0.20309187	-0.2891283
-0.5556878	-1.0722976	-0.1274	-0.2678983	-0.2768655	0.30766228	-0.5166098
-0.2216089	-0.5489883	-0.5305856	1.82366002	-0.2778303	-0.3711327	-0.3273794
0.75613006	0.669409	0.22336149	0.03728024	1.1304585	0.57579168	-0.0867211
-1.3882445	-1.3441478	-0.9872211	0.24076126	-0.7386635	-0.1997755	0.04409666
-0.8386547	-0.7280537	-0.3343082	-0.1297549	-0.3859809	0.41800352	0.11060102
-0.7121239	-0.5345358	-0.5727503	-1.5195997	0.09307149	-0.7402979	0.17758804
-1.2848359	-0.8957812	-0.4212706	-1.6700144	0.01627481	-0.3335249	0.38905476
-0.4108946	-0.6824322	0.10006798	-0.0810221	0.45308651	0.43950444	-0.2715376
-1.0720524	-0.4545131	-1.3053219	0.59354635	-1.0124944	-1.2159177	0.61753928
-0.7655125	-0.8276206	-0.9684567	0.32343965	-0.0470081	-0.4628922	-0.0621081
-0.9259517	-0.9916569	-0.5247048	0.17023784	-1.4185537	1.29389484	-0.0657051
-1.4781319	-1.5082161	-0.5473645	-0.0568731	-2.6523602	0.40140204	-0.0300841
-1.8355619	-1.6069205	-0.5122747	-0.3169694	-1.2639695	0.39507639	0.22864138
-1.145275	-1.3634455	-1.0155544	0.0176836	-0.564326	1.40975574	-0.2181705
-0.6904736	-0.7845958	-0.4002025	0.26904109	0.00693586	-0.3706475	-0.0941222
-0.5733347	-0.4445563	-0.6328737	-0.1809272	-0.7796492	0.14850742	0.12877846

Supplemental Table 2 Tab 1

-1.251732	-0.6007788	-1.0305815	-1.0106096	-0.2667908	0.12309543	0.65095319
-0.7073028	-0.9077753	-0.343984	-0.7941082	-0.8699699	0.72737824	-0.2004725
-1.1821546	-1.0460018	-0.7017834	0.2883658	-0.8075695	0.54702668	0.13615279
-1.4277751	-1.6935625	-0.5197843	2.83411517	-1.9117108	0.66739166	-0.2657875
-0.3139236	-0.9132111	-0.8002837	1.73926572	-0.7127008	0.35416482	-0.5992875
-0.4269131	-1.2448032	0.15851569	1.91712769	-0.7119739	0.44381074	-0.8178902
-0.6525536	-0.6089682	-0.0126189	0.28031269	-0.3134391	1.28162774	0.04358542
-1.9378723	-1.8685252	-1.3659291	1.38195437	-0.9398725	-0.4299876	0.06934715
-1.2311829	-0.7627285	-0.5960188	-0.2583802	-0.3503731	0.59762666	0.46845437
-1.6046801	-1.5481597	-0.4468986	0.18521557	-1.0237562	1.32083396	0.05652049
-0.7698953	-1.080438	-0.4493234	1.2825863	-0.885976	0.92138134	-0.3105427
-0.6525725	-0.4558949	-0.5004823	1.20418803	-1.1593139	-0.1488752	0.19667756
-0.9155652	-0.4258879	-0.1571758	1.6400117	-0.5885433	0.27540528	0.48967726
-1.3142703	-1.0478704	0.22224969	0.01425856	-0.285332	0.69513866	0.26639995
-1.0479642	-0.9757304	-0.4715664	1.11227868	-0.1108348	0.94318961	0.0722338
-0.647037	-0.3514525	-0.7582503	-2.8116151	0.86746929	0.2755426	0.29558453
-0.6064742	-0.6204014	-0.5004537	0.50385068	0.11808476	0.08575163	-0.0139272
-0.1773006	-0.7048285	-0.3540806	0.88310044	-1.5711724	-0.7383451	-0.5275279
-0.7290101	-0.7206948	-0.0790635	-1.1796901	0.25410034	0.92330949	0.00831527
-1.5196059	-1.3615059	-0.6379742	1.20715737	-1.1733506	1.02092989	0.15810001
-0.3225641	-0.2453653	-0.0427456	-1.2955908	0.08108275	0.30415236	0.07719878
-1.2960199	-0.7731582	-0.7179927	-0.0265706	-0.5972544	-0.0490093	0.52286168
-0.0967752	-0.2825271	-1.012485	0.8810669	-0.2284314	0.44758696	-0.1857518
-1.1203492	-1.0627919	-1.1543014	3.09790353	-2.0264994	-0.3290229	0.05755726
-0.1749203	-0.2238964	-0.5488167	0.12289508	0.2269094	0.2231256	-0.0489762
0.02079078	0.07324005	-0.3167251	0.70817335	0.13388022	0.29280708	0.05244927
-0.3597599	-0.1589211	-0.7568786	-0.3666377	-0.6213105	-0.3290288	0.20083874
-0.991189	-1.3384618	-0.4631954	1.1030583	-0.7601748	0.59429361	-0.3472728
-0.8886527	-0.611669	-0.0364591	-1.964374	-0.4678948	0.80283354	0.27698369

Supplemental Table 2 Tab 1

-0.3673015	-0.3132328	-0.0027858	-0.5876157	0.15001776	0.65171642	0.0540687
-1.2022774	-1.5283584	-0.6424307	1.38006333	-0.9657785	0.48307798	-0.3260809
-2.2758631	-1.790555	-1.585955	0.92755608	-1.4869237	0.28586778	0.48530808
-0.934429	-0.442647	-0.1726439	0.913531	0.18560137	0.06059491	0.49178199
-0.5862942	-0.7093328	-0.353409	2.02536752	-0.9590845	0.6890957	-0.1230387
-1.3315541	-1.0421356	-0.8906026	1.64076105	-1.0157465	0.65961625	0.28941852
-1.431234	-0.9293867	-0.5194258	0.76542773	-0.5213367	0.05877824	0.50184732
-1.3705432	-1.4058822	-0.6053225	1.51887026	-0.6201551	0.28660692	-0.035339
0.86703472	1.23373345	-0.839077	0.6861667	0.27707946	0.28489319	0.36669872
-1.1870319	-1.3329335	-0.6050855	-0.0480664	-0.7618187	0.14540419	-0.1459016
-0.723877	-0.9717487	-0.316315	0.99313971	-0.4484681	0.44834461	-0.2478717
-1.1842823	-0.5116128	-1.0001963	-2.3159115	-0.6216621	-0.876802	0.67266949
-1.2386478	-1.2166008	-1.5227679	-0.8459659	-1.6299067	-0.4595488	0.02204702
-1.4325825	-1.1588073	-0.7762807	-0.6589323	-2.5116758	-1.3367942	0.27377517
-0.8572349	-0.351508	-1.0605057	0.21571978	-2.2860972	-1.3662205	0.50572686
-1.6816879	-1.1589177	-0.9152436	0.35462609	-2.0490171	-1.1726406	0.52277017
-0.0967927	0.191508	-1.1452893	0.02763112	-2.0567473	-1.8366772	0.28830065
-0.5403126	-0.106782	-0.9911813	0.85730446	-1.8905799	-1.0966191	0.43353058
0.71246279	1.26015211	2.22444155	-0.0458469	0.22428998	-0.2056172	0.54768932
-0.0470131	-0.4760129	-0.4085607	-0.3746805	-0.305383	0.50673503	-0.4289998
-0.7105536	-0.564769	-0.414377	0.33845324	0.10386214	0.63161872	0.14578457
-0.8832485	-0.5918049	-0.6409248	-0.6974071	0.28374884	0.70440241	0.29144363
-0.5435281	-0.0313719	-0.0405653	0.45144779	-0.384269	0.78602332	0.51215622
-0.8072639	-0.0791107	-0.6378588	0.04807491	0.95870864	0.18901598	0.72815318
-1.0529748	-1.0054725	-0.3318076	1.33498932	0.21658743	0.66087661	0.04750227
-1.6417393	-1.3262237	-0.5201527	1.20722739	-0.7149975	0.0972805	0.3155156
-0.6531495	0.09904428	-0.3539593	-2.3691359	1.00046034	0.8370836	0.75219377
-0.1703209	-0.6451419	-0.5011749	-1.1032034	0.78087607	0.44389448	-0.474821
-0.3534295	-0.2901292	-0.8849013	-0.3496888	-0.3178981	-0.6999445	0.06330032

Supplemental Table 2 Tab 1

-0.2731343	-0.9146981	0.02717423	0.97606435	-1.6371998	0.14610411	-0.6415638
-1.1450751	-1.5550676	-0.5738299	-0.1032938	-1.1160391	-0.5400246	-0.4099926
0.46401274	0.70427223	-0.646695	-4.1817124	2.48705791	-2.2927485	0.24025949
-0.8853042	-0.9269573	-0.3445441	0.75497272	-0.8627557	0.03256676	-0.0416531
-1.3391415	-1.1293756	-0.8750779	-1.9334093	-1.0701928	0.79056936	0.20976593
-1.6205355	-1.2778789	-1.0379466	-2.4212326	-0.6939464	0.49181094	0.34265661
-1.933798	-1.7225905	-0.8811458	1.17063307	-1.6602902	-0.2603579	0.21120748
-1.3578498	-0.8526487	0.50718752	0.36111458	0.22290246	1.13606975	0.50520116
-1.2960891	-1.3823828	-1.627167	-1.11602	-1.5865123	-0.473291	-0.0862938
-1.1759473	-1.0412224	-1.2696605	-0.8515271	-0.3503021	-0.2914498	0.13472485
-1.5883617	-1.4044452	-0.2999677	-0.5469265	-0.4153323	-0.0626236	0.18391655
-0.8711339	-0.9133727	-0.4642396	-2.4202057	1.66808894	-0.4444921	-0.0422388
-1.4067571	-1.2791919	-0.2424019	1.03646063	-0.6430787	0.59818442	0.12756521
1.03259986	0.71151242	-1.2690148	2.89172317	0.08404992	-0.3978309	-0.3210874
0.62447131	1.16501363	-0.193512	-3.0779074	2.26499442	-1.1561446	0.54054231
-0.5067364	-0.5528673	-0.3515916	0.45857125	-0.0891122	0.34049691	-0.0461309
-0.7066158	-0.6650708	-0.4395759	-1.4003023	-0.5490488	0.33819019	0.04154501
0.0817129	-0.0729003	-1.255036	-1.7110085	0.89594916	-0.0905398	-0.1546132
-1.3830476	-1.5172424	-1.1802758	-0.4175818	-1.5972677	-0.0280891	-0.1341947
-0.6395282	-0.4066153	-0.5567095	0.81224076	0.26192356	-0.2624338	0.23291295
-0.303858	-0.1640988	-0.6054661	-0.0570301	0.43718124	0.23809838	0.13975913
-0.4053361	-0.2623608	0.1238537	1.44538213	0.35571438	0.94561958	0.14297524
-1.1314988	-0.8506625	-0.3728139	1.97687059	-1.1850007	0.09576426	0.28083625
-1.7706682	-1.6336363	-1.0643981	0.67374712	-1.9604008	0.7982337	0.13703183
-1.4559483	-0.8387574	-0.7989768	0.98806533	-0.2280751	-0.3070103	0.6171909
-1.1851452	-0.9984631	-0.566232	-0.7196325	0.12158705	0.53196259	0.18668206
-1.0372499	-0.8491424	-0.1976347	0.17200139	-0.1220354	-0.0250013	0.1881075
-0.5431997	-1.3184681	-0.0698365	0.60628122	-0.7321991	-0.2289602	-0.7752684
-0.9417581	-0.8324717	-0.4297659	2.73540954	-0.911781	0.18327014	0.10928636

Supplemental Table 2 Tab 1

-1.2702297	-1.3644018	-0.9680019	0.61293825	-1.7082885	0.35708088	-0.0941721
-0.1601723	-0.5241944	-0.2677126	-2.325145	0.27669362	0.57829311	-0.3640221
-1.8657818	-1.2680293	-1.2387127	-0.2674655	-2.1891325	0.42326032	0.59775252
0.29344838	0.23970216	-0.0172017	2.48983731	-0.0942322	0.57382911	-0.0537462
-1.0046739	-0.9836266	-0.89865	0.16167082	-1.0304264	0.04749619	0.02104726
-1.1485402	-1.2343826	-0.1157153	1.57560042	-1.0585202	0.13718781	-0.0858424
-0.0104041	-0.5646518	-0.7231589	-3.0498032	0.67812979	0.17458856	-0.5542476
-1.6772376	-1.4108343	-0.5657006	-0.6115794	-1.5081956	1.07192603	0.26640322
-0.5456089	-0.5343412	-0.0543595	-0.962424	-0.0920544	0.9472439	0.01126773
-1.3507084	-1.2482971	-0.7547691	-0.0092755	-0.8991644	0.6844559	0.10241132
-1.1120756	-1.4894944	-0.1259022	2.17327901	-0.8223104	1.60689227	-0.3774188
-1.1367756	-1.5348717	-1.6916499	2.66874878	-1.5396872	-0.4857694	-0.3980962
-1.6113408	-1.6034414	-0.9997119	2.00346907	-1.8642608	0.67997044	0.00789939
-0.5215846	-0.4547064	-0.5954089	-0.7960224	0.34215737	0.27553611	0.06687821
-1.5240072	-1.1377347	-0.6612212	-1.2802624	0.0670581	0.02739953	0.38627248
-1.4830252	-1.3220611	-0.7271308	-0.9881368	-0.6707005	0.74781838	0.16096417
-1.8206575	-1.465345	-1.4596626	0.41528134	-1.1754471	0.64320045	0.35531256
-2.1255318	-2.071378	-1.1330932	2.61470412	-2.0066586	0.37075569	0.05415376
-1.5317651	-2.4060545	-1.7846501	1.94573618	-1.654075	-0.6855293	-0.8742894
-1.4477357	-1.5414949	-0.954449	-0.8089111	-0.9905308	-0.1025704	-0.0937593
-0.3697619	0.10736769	-0.2794104	0.61211084	0.16753818	0.76907429	0.47712959
-1.3485718	-1.5355705	-1.3003911	4.00940077	-1.9217097	-0.3810934	-0.1869986
-1.892609	-1.7629356	-0.8228895	0.54784437	-0.843658	0.91173208	0.12967345
-0.8387548	-0.8368981	-0.4030304	-0.8492183	-0.3711092	0.40992569	0.00185668
-1.4210802	-1.4677804	-0.8166942	-0.0979713	-1.5334101	0.58580665	-0.0467002
0.12593699	1.01165036	2.03178649	0.06536907	1.63199603	-0.7527518	0.88571337
-0.2860373	-0.3650542	-0.231559	0.27076354	-0.2583438	-0.0433238	-0.0790169
-1.7905449	-1.6208863	-0.9132437	0.60353103	-1.3661449	0.3403465	0.16965866
-1.3739882	-1.286643	-0.5529862	0.8207994	-0.7758327	0.33896164	0.0873452

Supplemental Table 2 Tab 1

-0.9021871	-1.1494759	-0.5721889	1.37496261	-1.2148429	0.05473784	-0.2472888
-0.3617286	-0.4755619	0.63543472	2.62165854	-0.6412726	-0.5328485	-0.1138333
-0.4721164	-0.7516898	-0.3937139	0.36656959	0.08295229	0.46299082	-0.2795734
-1.2380931	-1.6485823	-0.5865778	1.00526337	-1.7185398	0.85633026	-0.4104892
-0.7579769	-0.6266915	-0.0856345	-0.2912145	-0.0337597	0.83046045	0.13128541
-1.3670363	-1.1144474	-0.76089	-1.012112	-0.5446077	0.34615018	0.25258891
-0.6895927	-0.3969876	0.17464221	-0.8116975	0.13814696	1.24266544	0.29260502
-0.6419101	-0.7912452	0.10643987	0.19526748	0.25405941	-0.0872535	-0.1493352
0.17368539	0.06618274	0.48093423	1.24717942	0.06289527	0.4746828	-0.1075026
-1.2636494	-0.7452937	-0.8344493	0.63334458	-0.7130721	0.21624003	0.51835579
-1.5487943	-1.3385657	-1.1403993	1.90786399	-1.7031978	-0.5821185	0.21022864
-1.9714816	-1.6528175	-1.1254816	3.7339908	-2.2735459	-0.1221412	0.31866415
-1.246182	-1.5045796	-1.2149118	-0.5103603	-1.3778233	-0.1824205	-0.2583976
-0.8709632	-0.8566387	-0.1301686	1.35092972	-0.0040285	0.49838312	0.01432447
-0.0499542	0.58712747	-0.0828084	2.67672311	0.78115633	1.02295104	0.6370817
-1.5242599	-1.5407808	-1.0157969	1.45345485	-1.4134618	-0.0383628	-0.0165209
-1.5180879	-1.2407426	-0.7239026	1.36317727	-1.2521015	1.13501426	0.27734527
-0.5643485	-0.7088645	-1.6943784	-0.136502	-0.5972031	0.94658184	-0.1445159
-0.7717844	-1.2028331	0.2082338	2.71675904	-0.9266028	1.50314423	-0.4310487
-0.8976916	-0.4743304	-0.2276025	1.09796095	-0.2354242	0.36012608	0.42336116
-1.3964832	-1.1809073	-0.7515535	-0.4259618	-0.6784876	0.07028618	0.21557585
0.33875757	0.46471993	-0.1436078	0.6163877	-0.2259154	0.31061796	0.12596236
-0.7341901	-0.7581037	-0.6551367	0.4914646	-0.7187053	0.44326009	-0.0239136
-0.15818	-0.4040111	-0.9052185	-2.1578087	-0.1967466	0.0089105	-0.2458311
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-1.0985978	-1.2004598	-0.690898	0.45582293	-0.7792601	-0.463299	-0.1018621
-1.5256543	-0.9218085	-0.7130217	0.953377	-0.5004957	-0.2498064	0.60384583
-0.9271693	-0.8071038	-0.9112153	-1.4428831	0.02654803	-0.212251	0.12006554
-0.2223555	-0.1145543	-0.3121387	0.43719342	-0.6550675	0.72797691	0.10780122

Supplemental Table 2 Tab 1

-0.0975211	-0.4373183	0.30516395	1.04681464	-3.6287162	0.27796289	-0.3397973
-0.3213935	-0.5408545	-0.4165058	0.20473597	-0.1569733	0.37897248	-0.219461
-1.3062274	-0.95043	-1.0070162	-0.5031384	-1.2316902	-0.2350733	0.35579739
-0.6057632	-0.6034211	-0.3134081	-0.2239673	-0.0344251	0.35367666	0.00234211
-1.1088462	-0.9364446	-0.6673624	-0.3856429	-0.5535793	0.80152165	0.17240152
-0.5542401	-0.72737	-0.4067415	0.17180117	-0.1276408	0.80664518	-0.1731299
0.18855771	0.78357388	-1.6464507	-2.1645115	0.45707927	-0.7838068	0.59501617
-1.7886557	-1.3127369	-0.4974291	-0.4442882	-0.88343	0.21319593	0.47591875
-1.2808383	-1.1740133	-0.9703425	-0.06778	-1.0186675	-0.3519948	0.10682499
-1.7327265	-1.1892162	-1.2391098	0.64740488	-0.9226268	-0.7641426	0.5435103
-1.3261802	-1.0174989	-0.990495	0.56445768	-0.5402091	-1.4548176	0.30868131
-1.3153448	-1.7329721	-1.102014	2.31226691	-1.9314712	-0.2727935	-0.4176273
-1.173152	-0.7954571	-0.70754	0.30069084	-0.7886353	-0.1439224	0.37769481
-0.8429605	-0.7467046	-1.2961533	0.078219	-0.9181548	-0.438938	0.09625582
-0.3990922	-0.5625151	-1.535194	-0.1337737	-1.0481621	-1.1430721	-0.1634228
-1.1115	-0.9486792	-1.4748717	-0.1878597	-0.7942924	-1.2734756	0.16282084
-0.5568383	-0.4800519	-1.6341349	-0.0526934	-0.873683	-1.6559629	0.07678638
-0.7977089	-0.6595358	-1.6396821	-1.0829232	-0.4763434	-1.2809808	0.13817315
-0.6438277	-0.6888782	-1.8662145	-1.5803234	-0.3642715	-1.3909275	-0.0450505
-1.6230332	-1.4735883	-1.97768	-1.6747736	-0.6954199	-1.3575267	0.14944483
-0.9312497	-0.8204477	-1.8354736	-1.5472879	-0.9556921	-1.2094175	0.11080203
0.71055481	1.06996801	-1.7823295	-1.1138065	-0.7898677	-1.7394016	0.3594132
0.5833516	0.66715342	-2.0407808	-1.8499801	-0.7577055	-1.358918	0.08380182
-1.3904474	-1.4794534	-2.0646201	-2.4733609	-0.9080741	-1.9789865	-0.089006
-1.291314	-1.3567489	-2.285028	-2.7238284	-1.1333855	-2.0939318	-0.0654349
-1.184974	-1.1621931	-2.38473	-2.6382659	-0.9631941	-2.4109989	0.02278092
-1.2761921	-1.2105778	-2.4706428	-2.701855	-1.183305	-2.8846267	0.06561433
-0.8692727	-0.988904	-2.8302788	-3.0646497	-1.2821175	-3.319028	-0.1196313
-1.2331854	-1.2602385	-2.8565048	-3.1708645	-1.1428205	-3.1172844	-0.0270531

Supplemental Table 2 Tab 1

-1.3654387	-1.4483383	-2.7790678	-3.1550667	-1.2446933	-2.9880215	-0.0828996
-1.4433542	-1.4467975	-2.7165964	-3.1205172	-1.1712764	-2.7941355	-0.0034432
-1.3481998	-1.3205805	-2.8541268	-2.9052635	-1.1985988	-3.1086884	0.02761928
-1.6122934	-1.5218716	-2.7677916	-2.8793391	-1.0928462	-2.9844512	0.09042171
-1.9570534	-1.8388565	-2.757916	-2.9997042	-0.9521023	-2.831891	0.11819682
-1.7842552	-1.5220307	-2.7993099	-3.6697615	-0.8519619	-2.9585423	0.26222445
-1.8595317	-1.7113704	-2.8117332	-3.7877037	-0.7003955	-2.961679	0.14816133
-1.403053	-1.2307898	-2.7662097	-3.4973608	-0.7846066	-3.1403245	0.17226327
-1.5482845	-1.3766259	-2.8284627	-3.9117653	-0.7545806	-2.9802492	0.17165865
-1.3566931	-1.1165667	-2.7972351	-4.0279108	-0.7972175	-2.9983548	0.24012635
-1.8526029	-1.6761507	-2.6897458	-4.2161037	-0.5613379	-2.5520123	0.17645218
-1.6571087	-1.2207515	-2.7197488	-4.6279918	-0.7244927	-2.6809778	0.43635717
-1.389396	-0.8217964	-0.7907104	-1.0812186	-0.1360359	-0.1696649	0.56759956
-1.3051298	-1.0884713	-0.9581132	-2.808961	-0.3944566	0.18572084	0.21665843
-0.7800377	-1.5524298	-2.9158752	-1.4159142	-1.1926964	-2.0963024	-0.7723922
-0.551166	-1.2663051	-2.9605122	-1.7978309	-1.4851317	-2.2334559	-0.7151391
-0.6971399	-0.9470071	-2.6623027	-2.8429048	-0.9373986	-1.4088447	-0.2498672
-1.0938577	-1.1932643	-2.2923294	-2.0830166	-0.9163822	-0.8882386	-0.0994066
-1.0999232	-0.7833877	-1.2911394	-1.0869206	-0.5266091	-0.9759306	0.31653556
-1.0748614	-0.9987515	-0.7402662	-2.3535616	-0.2643761	0.13890393	0.07610989
-1.5276598	-1.3619716	-1.3453661	-0.3300427	-1.8079496	-0.0642068	0.16568823
-1.1901541	-0.8947581	-1.0138203	-2.928814	-0.3807876	0.46974703	0.29539602
-1.6459832	-1.4792086	-1.3937407	0.41264139	-1.2156154	-0.0763553	0.16677459
-1.5347186	-1.1491061	-1.4275053	-1.5522942	-0.5661126	-0.3638211	0.38561251
-1.4535553	-1.1207393	-0.5785886	-1.518815	-0.9086484	0.49413272	0.33281599
-0.3744549	-0.0679423	-2.2278253	-1.508044	-0.89902	-0.9559567	0.30651264
-1.5767844	-1.4562837	-1.2999811	1.30366447	-1.6878885	0.53284847	0.12050066
-0.6657268	-0.4803516	-0.4874515	-1.9195823	0.44446326	0.26700755	0.18537519
-1.2340705	-1.4239485	-0.8944968	-0.4421681	-0.7898735	0.26182927	-0.189878

Supplemental Table 2 Tab 1

-2.2579786	-2.0858375	-1.3217104	1.13677143	-1.2422403	0.13387563	0.17214107
-1.8330737	-1.4655297	-1.074971	0.72441544	-1.5787614	-0.1293349	0.36754398
-0.0460964	-0.2112824	-1.7088512	2.19089007	-1.2975827	-0.7825652	-0.165186
-1.1656216	-1.0396425	-0.2906347	-1.423932	-0.1811182	0.74147624	0.12597901
-0.2645105	0.16131371	0.01172823	-1.1168631	0.5882492	0.23154372	0.42582421
-0.8931761	-0.6640901	-1.6087544	0.20943144	-0.6868315	0.11255097	0.22908603
-1.2034228	-0.8369835	-0.9266875	-0.4317761	-0.7388559	0.14676051	0.36643933
-1.2423411	-1.1915031	-2.3431177	0.64131503	-1.1877052	0.13326143	0.05083803
-1.2069553	-0.9233382	-2.6324915	-1.052625	-1.1942512	-0.9050045	0.2836171
-1.2784899	-1.1765038	-0.9480565	0.44092996	-1.1143889	-0.231906	0.10198606
-0.9140945	-0.949846	-0.8676896	0.53365995	-0.6690284	0.19933241	-0.0357515
-0.5326891	-0.8024908	-0.1263932	-0.3225473	-0.4011495	0.23047319	-0.2698017
-1.0695239	-1.0656254	-1.5543356	-0.4530283	-1.1180187	-0.6127236	0.00389843
-1.2258439	-0.9795257	-0.6572082	-1.4272052	-0.3433679	0.56936448	0.24631819
-1.3566881	-1.1108886	-2.2447623	-0.4533811	-1.0566761	-1.9973791	0.24579941
-0.9385991	-0.878723	-1.3933885	0.1864856	-0.8008144	-0.750488	0.0598761
-0.4719178	-0.569893	-0.9576573	-1.2288791	0.04327957	-0.4009033	-0.0979752
-1.783619	-1.318138	-1.9339409	-2.5541725	-0.4832907	-0.9007837	0.46548099
-2.0830759	-1.5331605	-1.7982587	-1.7099635	-0.8372848	-0.4463387	0.54991544
-0.6426768	-0.2080339	0.24267204	-1.4906238	-0.5263897	0.82760046	0.43464297
-0.3080542	-0.0772547	-1.0388465	-0.6706138	0.21512641	-0.2184487	0.23079953
-0.0508066	-0.1059698	-0.9412355	-0.5608586	0.0804085	-0.0529013	-0.0551632
-1.4933993	-1.3719433	-0.8665319	1.08380625	-0.9440361	-0.1895762	0.12145604
-1.9362367	-1.7352678	-1.2643877	1.03922629	-1.8423247	-0.6914389	0.20096887
-0.6722785	-1.2208895	-0.8182709	0.15594915	-0.9379536	-0.5377287	-0.5486109
-1.2381055	-1.116172	-0.8101281	-1.3051096	-0.4528466	0.69108419	0.12193349
-1.1377482	-0.867251	-0.8220974	1.15348405	-0.7293671	0.51420015	0.27049727
-1.5598322	-1.2622884	-0.4198482	1.06462567	-0.504793	-0.221506	0.29754381
-1.6160896	-1.4240631	-0.9703235	-0.7136344	-0.8291381	0.02803189	0.19202649

Supplemental Table 2 Tab 1

-1.6757388	-1.7895984	-1.0226368	1.15940704	-2.0367151	0.35616531	-0.1138596
-1.4272753	-0.8124018	-0.921993	-0.312798	0.30858707	0.01786235	0.61487355
-1.3450362	-0.977176	-0.6486778	-0.5276513	-0.9636439	0.27000315	0.36786021
-1.0302677	-1.1119602	-0.4725629	-1.0048592	-0.5556041	-0.2010254	-0.0816925
0.69130937	-0.3253913	0.65205154	1.28310953	-0.6451558	0.08865348	-1.0167006
-0.8130163	-1.0530839	-0.6182172	0.36350311	-0.1711733	0.97275924	-0.2400677
-0.8734615	-0.6271707	-0.8405104	0.94857279	-0.8208015	-0.508674	0.24629079
-0.4612888	-0.2249727	-1.1408455	0.93738135	-1.0191972	-0.7613129	0.23631612
-0.7944557	-0.6456241	-0.2130484	-0.6376195	-0.4826046	1.16081147	0.14883164
-0.8799637	-1.4674107	-0.5054563	1.91317725	-1.2673705	0.40157143	-0.587447
-1.5423281	-1.3328064	-1.2790445	0.14127178	-0.8442157	0.23335337	0.20952174
-0.324466	-0.6148352	-0.0195903	-0.7171319	4.04840448	-1.5689229	-0.2903692
-1.947546	-1.7190296	-1.034635	0.35017426	-1.2290829	0.23021236	0.22851639
-1.5440154	-1.0674575	-0.5808517	-0.0337826	0.49144663	0.2415206	0.47655794
-1.446214	-1.2365833	-0.9469702	0.9115826	-1.741074	0.39244778	0.20963076
-1.1730892	-0.8162516	-0.7507383	0.66815717	-1.1195129	0.55414933	0.35683757
-1.3337462	-1.1542717	-1.5276745	-1.1501501	-0.6160686	-0.0076979	0.17947443
-1.0326389	-1.0537429	-0.7084727	-0.9052863	-1.0113308	0.33322177	-0.021104
-0.9589437	-0.6900161	-1.0093173	-1.4441006	-0.6460971	0.69675967	0.26892757
-1.2290352	-0.9508044	-0.7553431	0.26522529	-0.8333414	0.6071715	0.2782308
-1.1440015	-0.6454761	-0.5940364	-0.0371509	-0.7108262	-0.4190583	0.49852537
-1.2246282	-0.9368954	-0.4202398	-0.4892037	-0.5554237	-0.3976542	0.28773279
-1.5957326	-1.3631461	-1.6640688	0.1793911	-0.5310512	-0.7112894	0.23258655
-0.6261507	-0.6086134	-1.0899362	-0.8161559	-0.2459405	0.48223285	0.01753731
-0.5595157	-0.7482039	-0.3329423	1.70928519	0.363484	-0.0433886	-0.1886882
-1.8420176	-1.5843292	-1.0795292	-1.5793978	-0.6803116	0.21326801	0.25768841
-0.0931621	-0.2064867	-0.3488876	-1.7388048	0.05520425	0.57280179	-0.1133246
-1.1719684	-1.1309336	-1.9252553	0.19105093	-1.1394564	-0.6235978	0.04103479
-1.1980597	-1.1573065	-1.7817749	-0.0387875	-1.0077963	-0.8451373	0.04075322

Supplemental Table 2 Tab 1

-0.2080584	-1.0783658	0.51410213	1.24424515	-0.0770642	-0.339595	-0.8703074
-1.8012962	-1.4558875	-0.8099203	-0.0729767	-0.4404455	-0.4711252	0.3454087
-1.2328526	-1.3229269	-1.4261294	0.27686127	-0.9686121	-0.5340772	-0.0900743
-0.6983012	-0.3433862	-0.7694428	-3.6423968	0.65655708	-1.0025623	0.35491506
-1.2633964	-1.2661757	-0.9948942	-0.4777583	-0.6074672	0.20725365	-0.0027793
-1.837069	-1.5943076	-1.3729077	0.41671466	-0.9835914	-0.824954	0.24276146
-0.9344775	-1.7181194	-1.0232966	-0.4870333	-1.0595218	0.16557578	-0.7836419
-1.0776331	-1.0345155	-1.0280795	1.58005829	-1.2023695	0.11750195	0.04311766
-1.3597524	-1.7603982	-1.4946044	-3.5940829	-0.2417092	-0.1061851	-0.4006457
-1.769813	-1.8989803	-0.3784477	2.27643469	-0.9179939	0.6885299	-0.1291673
-1.3852793	-1.2835353	-0.6393455	1.32535541	-2.1324716	0.23787304	0.101744
-1.1007827	-0.9624295	-0.6512975	-1.355716	-0.2067139	0.19832576	0.1383532
-0.7210547	-0.8290479	-0.1961797	0.55484305	-0.4702006	0.62694418	-0.1079932
-0.6565673	-0.5773777	-0.9147472	-1.5623023	-0.7674829	0.26584392	0.07918966
-1.690892	-1.2826871	-0.940448	-0.1033163	-1.3904705	0.79472893	0.40820494
-1.3815648	-1.4412639	-0.7749031	0.65715957	-1.1592048	0.0310571	-0.059699
-1.0775568	-0.9391222	-1.3824527	-0.3182354	-1.1191532	-0.2724205	0.13843454
-0.8743468	-1.3637342	-0.8182578	-0.2460271	-1.0507952	0.75069657	-0.4893874
-2.0020246	-1.5700946	-1.1938088	-0.4428192	-1.1897796	-0.048571	0.43192997
-0.711131	0.04179934	-0.7649472	0.35708878	-0.2421351	0.15045514	0.75293035
-1.006662	-0.7230516	-0.6294339	-3.3661396	-0.1231309	-2.1282165	0.28361042
-1.3610722	-0.318693	-0.0591501	1.42763585	-0.3974715	0.30167482	1.04237917
-1.2082788	-1.1880228	-0.7229978	0.99394434	-0.8994885	0.88388019	0.020256
-0.289413	-0.4294733	-0.2082254	-0.5897373	3.28829279	-0.5973951	-0.1400603
-0.9972329	-0.8477646	-0.5458669	0.91906183	0.46256058	-0.3276706	0.14946826
-1.3790429	-1.5420177	-1.6465843	0.69516211	-2.1610178	-0.9029774	-0.1629748
-0.6114347	-0.5745081	-2.0617391	1.99754016	-1.5140079	-2.2395573	0.03692657
-1.0092408	-0.4584978	-1.468549	-0.9292461	-0.4361935	-1.876871	0.55074305
-0.7148555	-1.0333354	-0.3156313	-4.1391212	0.52664911	-0.03932	-0.3184799

Supplemental Table 2 Tab 1

-0.9268739	-0.6912457	-0.1611095	0.39620838	-0.1692942	0.40451991	0.23562825
-1.7229764	-2.2952411	-1.7368552	-2.2827226	-1.7709896	-0.969945	-0.5722647
-0.3551568	-0.6535979	-1.1975282	-1.9946624	-0.4450418	-0.5697778	-0.298441
-0.5542986	-0.9550437	-0.3393913	1.2940046	-0.114985	0.83508829	-0.400745
-0.5302321	-0.3259571	-0.2986472	-0.037582	0.59921422	0.09642405	0.20427504
-0.0541323	-0.2481032	-0.1579276	-2.1847733	0.9446483	0.59658745	-0.1939709
-1.0744014	-1.0795534	-0.4295462	0.67405669	0.17421444	1.81011342	-0.005152
-0.9727941	-0.7642499	-0.533032	-0.2829908	-0.1663814	0.47687803	0.20854421
-0.4042601	-0.8576344	0.18957711	1.34304922	0.05231139	0.97787088	-0.4533743
-1.2434713	-0.8330789	-0.5284686	-1.0283037	-0.6666883	-0.8163929	0.41039241
-1.0332227	-1.1008702	-2.1320647	-1.9866361	-0.7693495	-1.8333678	-0.0676475
-1.4959708	-1.0772243	-1.1904596	-2.0501779	-0.240306	-1.032208	0.41874644
-1.5360689	-0.982633	-1.0587949	-1.5675292	-0.2745171	-0.8705749	0.55343597
-0.9690476	-0.8693203	-0.2963428	1.19099511	-0.5709126	-0.5331783	0.09972728
-0.8413689	-0.5887212	-1.6715666	-2.7550859	0.17125435	-1.2364599	0.25264774
0.20089862	-0.5293235	0.19812115	0.174551	-0.5969496	0.75383795	-0.7302222
0.15764202	-0.817222	0.01335803	-0.2665049	-1.20177	0.12288415	-0.9748641
-1.030897	-1.2112909	-0.7916487	0.46864504	-1.3694607	0.73544263	-0.1803939
-1.4675063	-1.9888981	-0.8291437	-0.2360724	-1.5560693	0.83188728	-0.5213918
0.0932114	0.42624307	-0.334548	-4.647656	0.34565558	-0.3925023	0.33303167
-1.2752807	-0.8665257	-0.6680774	-3.8754413	1.19114597	-0.7698942	0.408755
-1.0602894	-0.6935698	0.0358459	1.88174272	-0.3808859	0.50799159	0.36671957
0.48089361	0.92348908	0.07506486	0.58230932	0.67627642	0.65678604	0.44259547
0.00272464	-0.2935729	-1.1442536	#DIV/0!	-0.6119406	-1.1629661	-0.2962975
-0.9187175	-1.6523463	-0.184385	2.60973569	-1.4852854	1.21816907	-0.7336287
0.13847055	-0.0295211	-0.0067162	3.15469484	0.28728817	0.96194822	-0.1679916
-1.0018868	0.03778688	-1.2998689	-5.5349394	1.01058826	-1.308823	1.03967365
-0.5731572	-0.4039042	-0.8758077	0.69353112	-0.3722802	0.40913086	0.16925301
-1.4604045	-1.6561493	-0.5140539	1.1276597	-0.6835797	0.75609273	-0.1957448

Supplemental Table 2 Tab 1

-0.3622968	-0.2134874	-0.9353237	-1.5253328	0.18742354	-0.6002084	0.14880945
-1.0120465	-0.8914335	-0.4315214	1.71392632	-1.0042318	1.12331593	0.12061299
-1.6963638	-1.7047015	-1.0598934	-0.4882798	-1.6709601	0.57848323	-0.0083377
-1.2048107	-1.4458789	-0.3190443	0.63212623	-0.6802947	0.26944207	-0.2410682
-0.5559547	-0.448331	-1.399455	0.33815937	-0.75941	-1.3011512	0.10762366
0.22738232	0.15908993	0.1701519	-3.600739	0.63013618	1.15448276	-0.0682924
-0.6778175	-0.4344684	-0.1561704	-0.0336572	-0.0928764	0.80938927	0.24334908
-1.0526069	-0.7038062	-0.5077124	2.3248797	-0.6392708	0.29403394	0.34880072
-0.030648	0.25904909	-0.2710753	0.26699567	0.97530712	-0.4756811	0.28969706
-0.2505626	-0.1373311	0.09445911	0.01016111	0.99835244	1.41616116	0.11323149
-1.0127547	-0.7583506	-0.2942674	-6.491025	-0.1547813	0.07545946	0.2544041
-0.2893591	0.16330907	-0.0471748	-2.3326138	0.4166566	-0.3487293	0.45266819
-1.6938016	-0.3446221	-0.6781605	-3.1501033	0.34698942	-0.0167405	1.34917949
-1.9406601	-1.0884209	-1.2972859	-2.9868099	0.23652662	-0.4616281	0.85223917
-0.8254582	-2.84687	-0.579496	2.43892433	-2.4838706	0.26700841	-2.0214117
-1.8332104	-1.5739856	-0.4693283	-1.8548768	1.26243813	-0.3630616	0.2592248
-0.5576104	-0.4073552	0.07264919	2.19481142	0.54082015	-0.2753806	0.15025522
-0.1547105	0.40303437	-0.0196799	0.21457782	0.47544149	0.5754827	0.55774489
-0.8594632	-1.1328253	0.06076767	0.65359091	-0.6405968	1.13281538	-0.2733621
0.07316015	0.10422737	-0.8392058	-5.8432997	-1.025824	-0.6958184	0.03106722
1.20913004	1.1870491	-0.0439368	-0.3939012	0.1143653	-0.6641095	-0.0220809
0.07314678	-0.8084471	-0.1381859	-3.9175426	-0.76339	-1.3383647	-0.8815939
-0.7121226	-0.5343283	-0.6363633	-3.4303002	0.36960825	0.14388184	0.1777943
-0.7430922	-0.7140478	-0.4180918	0.41846745	-0.7627029	0.10034942	0.02904439
-0.8422359	-0.3623988	-0.5282662	-2.0766806	0.06063305	-0.3205662	0.47983719
0.00149205	-0.1868406	-0.6465645	-1.393897	-0.6111236	-0.3836698	-0.1883326
-0.6633283	-0.888458	-0.8208204	-2.5514586	0.84574889	-1.2292599	-0.2251298
-0.7119901	-0.8248259	-0.2643868	0.34485945	-0.3355771	0.10149028	-0.1128358
-0.5492308	-0.5051978	-0.5512456	-0.1846421	-0.2670759	0.0366005	0.044033

Supplemental Table 2 Tab 1

-0.9020898	-0.6499142	-0.0151101	0.37570803	-0.3967981	0.51477225	0.2521756
-0.820845	-0.6872952	-0.2823553	0.08374159	0.22301016	0.91345821	0.13354974
-0.5117895	-0.5103052	-0.2435685	-0.5110758	0.31152376	0.45338012	0.00148425
-0.2087791	-0.1552446	-0.0293639	0.00507898	0.56136473	0.8453446	0.05353449
-0.7646932	-0.6558733	-0.2368605	-0.3577256	0.05292126	0.76408041	0.10881987
-0.8477227	-0.3867801	-0.4237752	1.11261831	-0.0058411	0.37117761	0.46094261
-0.0086173	0.04111225	0.19096577	0.10516793	0.37478781	0.32570181	0.04972951
1.49973906	1.15840633	0.69447445	0.53283398	0.37516329	-0.7430297	-0.3413327
-0.7779569	-0.5790673	0.14166857	0.9724735	-0.1385185	1.07811821	0.1988896
-1.465512	-0.6830493	0.2020034	1.8766256	-0.285609	1.13664653	0.78246263
-0.7960072	-0.6999386	-0.0868766	-0.9259624	0.22206331	-0.1604778	0.09606863
-1.0347729	-0.8397215	-0.6524885	0.37500436	-0.073045	0.95910522	0.19505134
-0.5747796	-0.6694765	-0.9395798	-2.3938656	-1.6904508	-1.3686078	-0.0946969
-0.0058081	-0.470594	0.17476415	0.36921089	-0.2822164	1.11500419	-0.4647859
-0.2751794	-0.367922	-0.0574609	0.44292352	1.19074721	0.14784597	-0.0927425
-1.4386134	-1.2242144	-0.5879646	-0.8131228	-0.9407894	0.7502678	0.21439905
-0.014309	-0.0564534	-0.2099752	0.87478948	0.40475734	0.71848681	-0.0421444
-0.4064557	-0.1354512	-0.0846017	-0.1145672	-0.6509921	0.81181542	0.2710045
-0.4307551	-0.3028547	0.20707945	0.26488043	0.43067712	0.56586155	0.12790039
-0.0957207	-0.1053121	-0.323395	0.20610657	-0.0739529	0.55228951	-0.0095914
-1.1854186	-1.2049453	-0.6184249	0.71911734	-1.4411266	0.14722589	-0.0195267
-0.2894604	0.1987229	-0.6909974	-1.1715513	-0.4817822	0.02457423	0.48818332
-0.406056	-0.1537581	-0.1153543	2.32343477	-0.8978264	0.95950587	0.25229789
-0.7205581	-0.0504059	0.84813529	3.17297168	-0.3487355	1.59975544	0.67015224
-1.0845296	-0.9195617	-0.7760586	1.63764803	-1.0475506	1.32573971	0.16496788
-0.437811	-0.2488743	0.18995717	-0.104216	1.11110069	-0.1423579	0.18893671
-0.5580797	-0.2917552	-0.2034027	0.10485034	0.37488501	0.74966906	0.26632442
-1.0270133	-1.4069949	-0.2586357	2.21653925	-1.8929948	0.42314657	-0.3799815
-0.0666564	-0.3942898	0.37252258	-1.0485277	0.60329053	0.19207529	-0.3276334

Supplemental Table 2 Tab 1

0.63301152	-0.1390475	-0.073057	-1.883932	-0.0394597	0.95061411	-0.772059
-0.2513423	-0.1989126	-0.4518014	-0.4695037	0.17445375	0.56201293	0.05242972
-0.0755767	-0.3596318	0.15667178	-0.0839005	0.93644506	0.43434591	-0.2840552
-0.6686367	-0.4363806	0.13104644	-0.4210518	0.12263953	-0.126853	0.23225612
-0.8703127	-0.9139144	0.16696441	2.36093147	0.12864431	0.30958338	-0.0436017
-0.3863323	-0.1877767	-0.5900436	0.56019774	-0.5012699	-0.4347898	0.19855555
-0.7304771	-0.8620803	-1.066115	-0.3332513	0.22283735	0.27216281	-0.1316032
-0.8018598	-1.1353615	-0.9738851	-1.3062066	0.31506226	-0.40826	-0.3335017
-0.7568698	-0.6271973	-0.354839	-0.8403091	0.47259686	0.28782149	0.12967253
-0.1452835	0.10350879	0.03628511	-0.128382	0.64226441	0.39406908	0.24879228
-0.7141438	-0.7207968	-0.1798332	0.19105109	-0.1648309	0.99346849	-0.006653
-0.5815844	-0.3579131	-0.4298444	-0.4371939	-0.3049631	0.83194434	0.22367134
-0.5764537	-0.7193902	-0.9710059	-0.2202592	-0.903058	0.08028855	-0.1429365
-0.9331054	-0.8026468	-0.3635358	1.213468	-0.7957658	1.12017304	0.13045861
-1.0967723	-0.8177085	-0.7176071	0.14657625	-0.5050644	0.37618236	0.2790638
-1.3460034	-1.5953672	-0.7314759	-0.1914996	-0.9111546	0.94673466	-0.2493638
-1.3169044	-1.1053906	-0.1832478	-0.426277	-1.1698229	1.18041693	0.2115138
0.74038157	-0.1669497	0.95717215	1.39861138	0.33660632	0.40632496	-0.9073313
-1.5131106	-1.3828808	-0.4921667	0.58908654	-0.7425	1.56703108	0.13022978
-0.594274	-0.4583909	-0.290004	0.04502275	0.00569798	0.61584578	0.13588318
-0.9709771	-1.3001907	-0.4157861	-0.0190094	-1.0243736	1.57229241	-0.3292136
0.15833064	-0.092344	0.15520184	1.63408472	0.06531672	-0.3361861	-0.2506746
-0.2408223	-0.6701949	-0.6212203	-0.2473657	-0.770428	0.55481019	-0.4293726
-0.445711	-0.2295718	-0.9642442	0.65047956	0.06491404	-0.0606203	0.21613922
0.07981641	0.04083532	-0.3157057	0.38768619	0.20877886	0.65255724	-0.0389811
-0.1791688	-0.0430887	-1.4538792	1.43197206	-0.3807432	-1.0612828	0.13608018
-4.8929951	-5.2631833	-0.9256211	-1.5199072	-1.7094421	-1.9867493	-0.3701882
-0.0967968	0.11806857	0.07524862	-0.8420971	-0.6647661	-1.7116156	0.21486535
-0.1604566	-0.5608188	-0.3314264	-0.503813	-0.3093544	0.20575238	-0.4003622

Supplemental Table 2 Tab 1

-0.6287777	-0.3943843	0.68847776	-1.7649029	-1.9042652	1.37907989	0.23439349
-0.1893303	-0.5949028	-0.4729652	1.36970631	0.24635241	0.31444982	-0.4055725
-0.6500423	-0.4376935	-0.3753256	1.97023343	-0.8299507	0.75117128	0.2123488
-0.4216831	-0.3390111	-0.0829503	0.15244956	-0.2269542	0.78540983	0.08267204
-0.8529871	-0.536501	0.05379513	0.57579638	-1.2675414	-0.1951906	0.31648613
-0.7789453	-0.7134184	-0.3165912	1.1550086	-0.4464071	0.84613747	0.06552689
-0.9269003	-0.8266204	0.05647708	0.20119579	-0.4941298	1.19828894	0.10027991
-0.4866111	-0.1212792	0.43958927	0.87378476	0.12531319	-0.6626574	0.36533191
-4.9387435	-5.2491015	-1.0027413	-1.3686964	-1.7337815	-1.9143967	-0.310358
-1.475309	-1.3674804	-0.696033	2.33129563	-0.9106936	0.17239645	0.10782857
-0.686208	-0.4017343	-1.1903076	-1.0972788	-0.7685008	-0.6335631	0.28447369
-0.6127403	-1.2441607	-0.160643	-3.3972606	-0.2020441	-0.0113604	-0.6314204
-0.6201423	-0.7018823	-0.1565828	-1.2077935	-0.9794394	1.38491416	-0.0817401
-0.9514861	-0.4242609	-1.3043195	-1.1281921	-0.8230979	-1.0943906	0.52722526
-0.0970674	2.23381664	-1.3466935	-0.5865839	-0.1928447	-1.5451357	2.33088405
-1.7829399	-1.6335076	-1.4652985	-1.9450636	-1.0204324	-0.0245396	0.14943232
-0.6553283	-0.3485525	-1.1786766	-1.0740033	-0.7668187	-0.6314617	0.30677575
-0.8817527	-0.2937738	-1.2787177	-1.0654261	-0.8200654	-1.1052584	0.58797881
0.69236275	0.31591615	-0.863979	1.15098818	-0.0291541	-1.0151092	-0.3764466
-0.7492546	-0.8813972	-0.8357967	0.75205499	-0.4010363	-0.1003996	-0.1321427
0.70325623	0.6956086	-0.5855934	2.28633599	-1.3667102	-0.7234546	-0.0076476
-0.1055868	-0.3020649	-0.5110943	-1.6625748	0.35238959	-0.2378758	-0.1964782
1.48798253	2.1263985	-1.0794968	1.19099986	1.05183292	-0.5370936	0.63841597
0.2351943	-0.8171851	-1.5011778	0.30203281	-0.8466587	-0.6939663	-1.0523793
-1.3827832	-1.0722285	-0.3747248	0.30301088	-1.1510135	0.4679963	0.31055477
-0.9462183	-0.4319977	-1.3057157	-1.133574	-0.8222282	-1.0998489	0.51422056
-0.0214856	-0.3456008	0.32244476	1.55459937	-0.7482539	0.71405075	-0.3241152
-0.2644052	-0.1278747	-0.6918276	-0.6411182	-0.1350585	0.25383606	0.1365305
-0.1040588	0.07114541	0.31377393	-1.8185536	0.52758932	0.58155148	0.17520425

Supplemental Table 2 Tab 1

-0.7354383	-1.0140094	-0.3107331	1.34177549	-0.7431471	0.18474548	-0.2785711
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-0.6414208	-0.7559333	-0.2248618	1.73226846	-0.6724205	0.12530384	-0.1145125
0.12912053	0.13595448	-0.6050828	-0.1594422	-0.1456243	0.16111268	0.00683396
-0.0618419	0.09355047	-0.5540886	-0.663794	-0.0563065	0.29924864	0.15539236
1.05109769	0.156493	-0.6252574	0.58335692	0.34419783	0.15689626	-0.8946047
0.30617856	-0.3932864	-0.4734428	-0.3883914	0.67689468	-0.2228482	-0.6994649
-1.0376269	-0.6785451	-1.0241319	-1.6619141	-0.0660576	-0.6156485	0.35908184
-0.8223537	-0.8618321	0.00486697	0.02828056	0.48895703	0.01640615	-0.0394784
-0.4623891	-0.7427899	-0.2231095	-0.6071476	-0.3409357	-0.0275624	-0.2804007
-0.9875881	-1.1188802	-0.8108357	2.54897511	-0.274797	0.42916364	-0.1312921
0.20314037	0.09598615	-0.5109246	-1.5666047	0.65143121	-0.3882615	-0.1071542
-0.9766356	-1.6444037	-0.2302976	2.53734363	-2.1319546	1.33719934	-0.6677681
-0.309114	-0.1760514	1.58833431	0.35813225	-0.0687682	1.30989863	0.13306261
-0.7130299	-0.8028382	-0.4659868	-0.0563829	-0.0920155	0.12952881	-0.0898083
-0.9177161	-0.8948884	-0.8109204	1.25556004	-0.1195714	-0.0838537	0.02282771
-0.2875474	-0.2649771	-0.109534	-0.0436837	0.47628444	0.18312346	0.02257033
-0.6732821	-0.3926774	-1.1985128	-1.1252361	-0.7657196	-0.6122838	0.28060473
-0.7018779	-0.4219419	-1.1550266	-1.2628871	-0.3928077	-0.4629515	0.27993598
-1.172973	-1.1221454	-0.6668768	0.43208897	-0.9075039	0.30024642	0.05082767
-0.8249023	-0.8022089	-0.5824068	0.56707841	0.37596531	-0.4217503	0.02269341
0.29321162	-0.7594339	-1.4816552	0.31498688	-0.8661939	-0.7293359	-1.0526455
-1.8996677	-1.9542516	-1.8756561	-1.8220205	-1.0024009	-0.3188267	-0.0545839
-1.1383208	-0.9652367	-0.8399522	-1.4872578	-0.9915545	-0.1217692	0.17308408
-0.6193805	-0.8369172	-0.556582	1.21341909	-0.4197357	-0.1420176	-0.2175367
0.21490141	0.02381992	-0.6393581	-1.4838559	0.59928002	-0.3582468	-0.1910815
-0.1581978	-0.3652834	-0.2355855	-0.4830375	0.16990981	0.22589478	-0.2070856
-1.3725542	-0.7398705	-1.2875394	1.97762716	-1.0518728	0.15589372	0.63268368
-0.2975041	-0.3331862	-0.2613841	-0.2542259	0.47412795	0.66478466	-0.0356821

Supplemental Table 2 Tab 1

-0.9196946	-0.3270812	-1.2971181	-1.0629946	-0.8279943	-1.0476332	0.59261338
-0.2814073	-0.6707148	-0.6294467	0.25454254	-0.2276193	0.32426178	-0.3893075
-1.3830635	-1.310782	-1.1658466	-2.1577597	-0.5002323	0.07218994	0.07228153
0.0389949	-0.5738829	-0.5931525	-0.5656374	0.80330581	-0.2034316	-0.6128778
0.78425918	0.33940157	-0.5396402	0.26770174	0.40057911	0.43840644	-0.4448576
-0.183107	-0.0333092	-0.7445698	-0.4979721	-0.1672749	0.23139018	0.14979776
0.21473241	0.16827621	-0.6772332	0.11563329	-0.2193062	0.16602976	-0.0464562
-1.1803837	-0.9408534	-0.6505642	-0.1608078	-0.2451343	0.29635274	0.23953027
0.49132407	0.59448903	-0.1206149	-2.380661	0.38202396	0.1381495	0.10316496
-0.9610112	-0.4337859	-1.305526	-1.1276574	-0.8248209	-1.0917336	0.52722526
0.40278223	0.22636194	-0.7054681	-1.7006906	0.87327308	-0.2236379	-0.1764203
0.13019463	0.05322713	-0.5206597	-1.690668	0.58952599	-0.4054418	-0.0769675
-0.3840082	-0.534319	-1.0133131	0.22147181	-0.1460843	-0.6274925	-0.1503108
-0.9514861	-0.4285727	-1.3043195	-1.1281921	-0.8213633	-1.0937531	0.52291343
0.51719328	0.15602448	-0.7655887	0.96900891	0.42321981	-0.1567357	-0.3611688
0.12643976	0.20663655	-0.6843152	-0.2741092	-0.1750766	0.13419376	0.08019679
-0.341889	-0.0280791	-0.6868689	-0.7424944	-0.2081484	0.22621728	0.31380993
0.48031764	0.03699296	-0.8768759	0.75905277	0.4198514	-0.2281776	-0.4433247
-0.7745741	0.08914719	-0.5939761	0.90754392	0.54043506	-0.5694137	0.86372126
0.40592379	-0.8366311	-1.3009421	0.51297829	-1.4193052	-1.0787331	-1.2425549
-0.6650495	-0.3909561	-1.2082288	-1.1316971	-0.7633395	-0.6269459	0.2740934
-0.9610112	-0.4337859	-1.305526	-1.1276574	-0.8248209	-1.0910967	0.52722526
-0.8654579	-1.3003949	-0.7625669	0.63742293	-1.3922814	0.42146797	-0.4349371
0.84807742	0.59607853	-0.5441687	0.19110579	0.38781726	-0.1822571	-0.2519989
-0.7430451	-0.936498	-0.6984046	0.59542735	-1.2436566	-1.2404059	-0.1934528
-0.9514861	-0.4242609	-1.3043195	-1.1281921	-0.8230979	-1.0943906	0.52722526
0.29321162	-0.7594339	-1.4816552	0.29794992	-0.8735151	-0.7247551	-1.0526455
-0.5676379	-0.3610465	-0.7952971	0.36833654	-0.3771067	-0.3998065	0.20659145
0.24833789	0.33572564	-0.6589631	-0.316539	0.35544446	0.03602813	0.08738775

Supplemental Table 2 Tab 1

-0.0549677	-0.1067485	0.25709396	-2.0016118	0.84826502	0.60048309	-0.0517808
-1.0967532	-1.0295019	-1.3937999	-0.8748491	-1.3341285	-0.6457554	0.0672513
-0.9514861	-0.4242609	-1.3043195	-1.1281921	-0.8230979	-1.0943906	0.52722526
0.75140406	-0.4363238	0.27934592	0.45416335	0.06565482	-0.1703563	-1.1877278
0.8237874	0.20368158	-0.7231607	1.79188737	-0.4082419	-0.7132413	-0.6201058
0.29321162	-0.7594339	-1.4816552	0.30654336	-0.8661939	-0.7247551	-1.0526455
-0.1986201	-0.4482841	-0.8615594	0.11092642	-0.1191886	-0.5874988	-0.249664
-0.1366921	-0.7381173	0.88322903	2.66180533	-1.1229516	1.08838636	-0.6014253
0.29321162	-0.7312805	-1.4816552	0.31498688	-0.8807994	-0.7293359	-1.0244921
-1.5875167	-1.045511	-1.0593124	0.39672732	0.07965097	-0.6672872	0.54200567
-0.0736583	-0.170478	-0.0659529	1.13844571	-0.1992659	0.26571432	-0.0968197
-1.1734393	-1.103924	-0.622825	-0.318717	-0.5049625	0.41784386	0.06951535
0.65044837	0.42598088	-0.7268195	3.86459887	-0.4779663	0.01762989	-0.2244675
-0.2122112	-0.8819454	-1.5133582	0.32859597	1.16283405	-0.7682917	-0.6697343
0.17449773	0.07586646	-0.5279946	-1.2239551	1.01030617	-1.008545	-0.0986313
0.11760761	0.00088328	-0.5871095	-1.5011248	0.62252818	-0.3979589	-0.1167243
-1.2561915	-1.6424717	-1.4773084	0.02456684	-2.0052817	0.10835733	-0.3862802
-0.9610112	-0.4337859	-1.305526	-1.1276574	-0.8248209	-1.0936997	0.52722526
-1.2084865	-1.207016	-0.7180887	0.52807928	-0.1489399	0.12431387	0.00147046
0.34373247	-0.6807596	-1.5058107	0.30654336	-0.8940877	-0.7270473	-1.0244921
-0.2122112	-0.8819454	-1.5774065	0.23846006	1.1893711	-0.7429616	-0.6697343
0.5053872	0.25474849	0.17094448	-0.5220644	1.30572593	0.65228711	-0.2506387
-0.8780871	-0.6547724	-0.3583275	0.5738668	-0.6497048	0.57187662	0.22331462
-0.4579994	-0.2268633	-0.5747208	-1.696296	0.51924247	0.42203915	0.23113617
0.11103476	-0.0025133	-0.5872397	-1.49923	0.62777902	-0.400512	-0.1135481
0.71049338	-0.7664569	-1.3054232	1.08905481	-1.5148982	-0.5983092	-1.4769503
-0.6782379	-0.3955305	-1.1867177	-1.0981806	-0.7673809	-0.6344117	0.28270743
-0.6485485	-1.077274	-0.0138607	0.06909166	-0.1236313	1.84955311	-0.4287254
0.11760761	0.00088328	-0.5830719	-1.5011248	0.62252818	-0.3979589	-0.1167243

Supplemental Table 2 Tab 1

0.62907368	0.42615166	-0.3533465	0.65811922	0.58227204	-0.0574665	-0.202922
-0.8217798	-0.7260104	-1.0958342	1.9612194	-0.6320993	-0.2520862	0.0957694
-0.9514861	-0.4242609	-1.3043195	-1.1281921	-0.8230979	-1.0943906	0.52722526
-0.6797405	-0.3937642	-1.1892983	-1.0982769	-0.7689869	-0.635864	0.28597626
0.48927915	0.01152625	-0.9266459	-2.3945785	-0.012104	-0.778013	-0.4777529
-0.6117223	-0.4141179	-0.2574757	0.16638861	0.0855334	0.75327404	0.19760437
-0.1051567	-0.3854004	-0.7491092	0.40708915	-0.1313007	-0.4699467	-0.2802437
-0.9617801	-0.7072201	-0.1221589	-0.4454635	-0.4273257	0.62315387	0.25456002
-0.8038022	-0.8956504	-0.2317297	-2.5442971	-0.4377566	0.51863367	-0.0918482
-0.5119802	-0.9219645	-1.2143506	3.2640616	-0.9134046	0.22873916	-0.4099843
-0.7167583	-0.7413428	0.07677363	0.84110926	0.66911293	0.95548555	-0.0245845
0.07446837	-0.4266561	-0.0440774	-0.4328083	-0.2177138	0.88482815	-0.5011245
-1.3015378	-1.268996	-0.6720664	0.41342067	-0.5037097	-0.0966993	0.03254182
-0.804058	-0.5558272	-1.2738872	0.31981464	-0.210621	-0.1167224	0.2482308
-0.4820881	-0.2023074	-0.2349755	-1.5538385	-0.3464859	0.23336453	0.27978074
0.78776156	0.49389019	-0.884144	0.75931922	0.45551246	-0.3668675	-0.2938714
0.09243906	0.01835025	-0.5096991	-1.8037141	0.64770454	-0.4176102	-0.0740888
0.4687053	0.04928384	-0.9038456	0.94871721	0.43830682	-0.1620171	-0.4194215
0.01875596	-0.2518709	-0.473771	1.04351949	-0.3950612	-0.756232	-0.2706269
0.28171152	0.96213142	-1.5425973	-2.2998989	1.84299895	-0.3531164	0.68041991
0.30352311	-0.5244049	-0.2705979	-0.3332027	0.67721306	-0.1898419	-0.827928
0.98214004	-0.1409134	-0.7708942	0.4448994	0.34135777	0.11743696	-1.1230534
0.11760761	0.00088328	-0.5871095	-1.5011248	0.62252818	-0.3964297	-0.1167243
0.40572034	0.54162493	-0.4767784	#DIV/0!	0.08711334	0.44517934	0.13590459
0.1044102	-0.0025133	-0.5891949	-1.500375	0.6210144	-0.4070732	-0.1069235
-0.6797405	-0.3937642	-1.1892983	-1.0982769	-0.7689869	-0.635864	0.28597626
-0.808202	-0.195357	-1.1046809	-1.3163865	-0.7058541	-1.1937032	0.61284498
-1.0238744	-0.9712665	-0.8983046	0.84179476	-0.3758107	-0.487763	0.05260792
0.22519865	-0.7960816	-0.8768382	0.43208021	-0.2622512	-0.989855	-1.0212802

Supplemental Table 2 Tab 1

0.44918791	0.03017841	-1.0183234	1.02333874	0.37123425	-0.1020502	-0.4190095
0.11855411	-0.0912484	-0.6793516	-1.6377801	0.53446914	-0.1807782	-0.2098026
0.43882083	0.35178594	-1.5483923	3.43977028	0.11119862	-1.0653537	-0.0870349
-0.6681496	-0.3537056	0.23652051	1.25646331	-0.1986632	1.29282509	0.31444405
-0.5387518	-0.4584175	-0.4475053	0.86911506	-0.1705464	0.43902951	0.08033428
-0.480884	-0.6898409	-0.5721832	0.45610731	-0.650468	0.96193228	-0.2089568
0.29321162	-0.7312805	-1.4816552	0.30654336	-0.8661939	-0.7293359	-1.0244921
-0.0968896	-1.5735471	0.16082569	#DIV/0!	-0.0121527	-1.3002001	-1.4766575
-0.8664399	-0.8649244	-1.3550207	-0.0148255	-0.8243606	-0.3704074	0.00151557
-0.2222585	-0.4583675	-0.898206	1.06557549	-1.1642504	0.23166367	-0.236109
-0.0094994	-0.1568001	0.14837317	-1.7873106	0.75663845	0.56393768	-0.1473007
1.10206866	1.21467564	-0.5730177	0.45956663	-0.590251	0.18901798	0.11260697
0.49441598	0.16497468	-0.6954614	0.88272541	0.52186975	0.08711146	-0.3294413
-0.686208	-0.4035005	-1.1903076	-1.0972788	-0.7678102	-0.6339855	0.28270743
1.36280204	0.42632718	-1.3094281	0.7182801	0.25903357	-1.0105107	-0.9364749
-0.0215829	-0.6264283	-1.2170292	0.44484455	-0.3294536	-0.8674352	-0.6048454
-1.524149	-1.0962104	-0.7431099	0.75130037	-0.457194	0.27254103	0.42793859
-0.3351842	-0.3989191	-0.6699328	-0.3374226	0.22810638	-0.3034957	-0.063735
0.46476463	0.26638053	-0.0471239	-3.5835735	0.58100305	-1.2104396	-0.1983841
0.09964447	-0.1814973	-0.5679383	1.13144421	-0.3178254	-0.7121704	-0.2811418
0.21029381	0.10267305	-0.4473503	-1.8145552	0.77760758	-0.4789647	-0.1076208
-0.5807254	-0.4233173	-0.2960853	0.58845923	-0.0715317	0.0394526	0.15740806
-1.0669774	-1.204598	-0.2532353	-1.648442	-0.2081566	-1.0024546	-0.1376206
-0.3282967	0.0462875	-0.5209252	0.526902	-0.1545012	-0.2804928	0.37458415
-0.5360303	-0.9888988	-0.3172211	1.03238383	-0.3556751	-1.8215608	-0.4528685
-0.865475	-1.0099448	-0.4210269	-1.5151591	-0.1336231	-0.9769228	-0.1444698
0.07314767	-0.1716313	-0.3054686	-0.2303711	0.11322811	0.26108294	-0.244779
0.29321162	-0.7312805	-1.4816552	0.31498688	-0.8807994	-0.7429649	-1.0244921
0.13761547	-0.1588266	-0.8632294	1.2064133	-0.0663373	-1.1404025	-0.2964421

Supplemental Table 2 Tab 1

-0.3805271	-0.5738869	-0.7954298	0.31305793	-0.0736776	-0.6074588	-0.1933597
0.21250633	0.20632661	-0.315415	-3.5607534	0.49464415	-1.9386923	-0.0061797
0.29321162	-0.7594339	-1.4816552	0.30654336	-0.8661939	-0.7384272	-1.0526455
-1.0970454	-0.5738752	-0.7619222	-0.6384081	-1.7495169	-3.4242921	0.52317022
-0.6373158	-0.4865313	-0.2817777	-0.4762818	-0.1878328	-1.6140048	0.15078453
0.54715694	0.23355206	-0.4945728	-0.3939455	-0.459777	-1.671574	-0.3136049
-0.3446709	-0.6925281	-0.3999071	-1.6768309	-0.7579327	-0.7827263	-0.3478571
0.8475449	-0.3562086	1.17901915	1.30262956	-0.9300932	-1.3993905	-1.2037535
1.16186854	-0.2556855	1.28735353	1.74840061	-1.0582146	-0.8778723	-1.417554
0.1453152	-0.1347294	0.09316709	0.36589576	-0.0616908	-0.3146289	-0.2800446
0.92880237	0.86677168	0.42874736	1.89152933	-0.1821391	-0.2664116	-0.0620307
1.0208953	-0.1944316	0.67581231	3.12187307	-0.8959399	-2.4710532	-1.2153269
0.53625006	-0.6345871	0.99948647	3.27832011	-0.8303447	-1.7125108	-1.1708372
0.06852142	-0.7985538	0.93102379	0.81913024	-0.3882009	-0.7346546	-0.8670752
0.76768161	-0.2393981	1.66591857	2.8910599	-0.2454751	-1.7447947	-1.0070797
2.15118248	1.59585963	0.35359087	#DIV/0!	-0.0120728	-4.1149109	-0.5553229
1.02665692	0.01124476	0.95379468	-1.1960681	1.48640163	-1.6108489	-1.0154122
#DIV/0!	#DIV/0!	#NUM!	#NUM!	#DIV/0!	-4.1146918	1.52568156
-0.9490234	-0.375925	-1.3218459	-1.1075202	-0.8310074	-1.0700777	0.57309845
0.17821095	-0.0278967	0.06849367	-3.7949752	0.0012958	-1.1522734	-0.2061076
-0.9428573	-0.3651927	-1.3209049	-1.1180868	-0.8332005	-1.0682087	0.57766455
-0.9428573	-0.3651927	-1.3209049	-1.1180868	-0.8332005	-1.0682087	0.57766455
-0.6272482	-1.1657936	0.06312267	1.16402002	-0.1880238	-1.0917947	-0.5385454
-0.6705023	-0.7665125	-0.7169968	-0.943275	-0.7965807	-0.7665351	-0.0960102
0.02587464	-0.5431535	0.22664659	-0.8998737	0.06330212	-0.9275969	-0.5690281
0.74197718	0.45372378	-0.0355093	-4.3302138	0.17530117	-2.5720001	-0.2882534
-0.6272482	-1.1657936	0.06312267	1.16402002	-0.1880238	-1.0917947	-0.5385454
0.29321162	-0.7594339	-1.4816552	0.30654336	-0.8661939	-0.7429649	-1.0526455
0.2934629	-0.126347	-0.3955135	-3.5163828	0.38412023	-1.2888686	-0.4198098

Supplemental Table 2 Tab 1

-1.6433414	-1.3940068	0.18407178	-1.8347074	0.47995615	0.41546832	0.24933461
-0.0345222	-0.1067707	-0.3603066	-1.1308535	0.52710812	0.18492985	-0.0722485
-1.0427705	-0.9889211	-0.8425889	-0.3279832	-0.5878689	0.02651684	0.05384941
-1.3096052	-1.3227483	-1.0352141	0.81773792	-0.9763367	0.02764695	-0.0131431
-0.8054857	-0.7122167	-0.3139846	-0.8303405	-0.7397622	0.15864261	0.09326894
0.0732682	0.06367768	-0.5263217	0.14050154	0.21005845	0.81467249	-0.0095905
-1.0382878	-0.750977	-0.5676864	0.32623846	-0.4396853	0.59319698	0.28731081
-0.6634647	-0.9326471	0.01655478	1.49751604	0.76554717	0.66821264	-0.2691824
-0.1413776	-0.5094426	0.29462383	-0.103845	0.68331377	0.44587931	-0.368065
-0.5625771	-0.3514379	-0.2785258	0.06991211	-0.2611923	0.56931222	0.21113924
-0.0158956	0.26703329	0.20872572	-0.7830001	-0.4835915	-0.1402456	0.28292889
-1.4881881	-1.2377161	-0.9957632	1.021985	-1.9155412	0.39671581	0.25047206
-0.9838605	-1.251949	-0.4164008	0.12073265	-1.1422297	0.31016423	-0.2680886
0.67191405	0.77815027	0.46358335	0.76249166	1.45565393	0.74862874	0.10623622
-1.3335788	0.10915562	0.02284499	0.92802975	0.02379342	0.53218771	1.44273444
-1.1876367	-0.0924686	-0.0860133	1.64774398	-0.3753121	0.27433296	1.09516805
-0.2982117	1.18696704	-0.5075621	2.21343202	-0.2976203	-1.0411834	1.48517876
-0.4800804	0.78134496	-0.262844	1.98852821	-0.1642802	-0.7400942	1.26142536
-0.5010099	0.75456925	-0.3792117	2.20188907	-0.3608105	-0.5401348	1.25557918
-0.4459189	0.93494722	-0.4248862	2.57728596	-0.4737452	-0.953222	1.38086615
-0.766561	0.42194491	-0.2689864	1.92909267	-0.3864846	-0.5299665	1.18850589
-0.4550146	1.05108419	0.20658676	2.59008801	-0.0732304	-0.398404	1.50609883
-0.9962304	0.31804005	0.12860165	2.1860816	-0.3178568	-0.4535582	1.31427041
-0.340186	1.00855446	-0.192542	1.67008527	-0.2753003	-0.5025428	1.34874045
-0.6622304	0.92526925	0.8836661	1.39677738	0.01391475	0.15090084	1.58749965
-0.8227395	0.52570244	1.2113744	0.80300268	0.30458032	0.39495058	1.34844192
-0.5902412	0.77079231	0.60845958	-0.8249015	0.47930052	0.69835936	1.36103348
-1.1664849	0.16308965	0.25002108	-0.1398719	0.16750697	0.16975322	1.32957455
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Supplemental Table 2 Tab 1

-0.7296025	-0.4128141	-0.0360438	-0.0796925	-0.6196747	0.93865635	0.31678839
-1.3554086	-1.3881632	-0.5509867	1.83825089	-1.5773221	0.7752462	-0.0327547
-1.0026871	-1.0666162	-0.7517435	-0.4695083	-0.4730151	0.56102939	-0.0639291
-0.2776718	-0.4743136	-0.3957356	-0.9128513	-0.4724596	0.53005054	-0.1966419
-0.9894686	-1.1644395	-0.6329524	0.36160572	-1.1674086	0.43374986	-0.1749709
-1.2056009	-1.3206247	-0.277244	0.15477622	-0.5907294	0.46179909	-0.1150238
-1.0204522	-1.0187505	-0.8126423	2.53255878	-1.6753308	-0.1120853	0.00170165
-0.749186	-0.534085	-0.301683	0.61866127	-0.269138	0.84034766	0.215101
-0.2660074	-0.2032911	-0.0631004	1.09698501	-0.4926219	0.12306343	0.06271627
-0.8809865	-0.9694676	-0.5070866	2.81027565	-0.6235025	1.09138343	-0.088481
-1.0218929	-1.1005305	0.13381359	2.16285604	-0.3133394	1.36138448	-0.0786376
-0.4860446	-0.2520064	-0.3476394	0.02477017	0.23905053	0.23223229	0.23403819
-1.4077692	-1.2780777	-1.0422527	-0.0385234	-1.3735594	0.02566669	0.12969144
-0.3468018	-0.1953652	-0.0777982	1.27672679	-0.6285828	0.38337571	0.15143653
-0.8778551	-0.6358013	-0.875452	-1.3422167	1.66590742	-0.0024186	0.2420538
0.0100332	-0.289452	-0.6465942	-3.7800869	0.04496344	0.18633233	-0.2994852
-1.0125762	-1.3108578	0.20152835	-4.2882786	-0.6625875	-0.5663709	-0.2982815
-1.0333112	-0.8787261	-0.4694944	0.82064493	-0.2467561	0.13121899	0.15458508
-1.4601349	-0.9739873	-0.6066217	0.16465157	-1.4826784	0.79804906	0.48614755
-1.1990947	-1.0983247	-0.9302995	1.6585276	-1.6932835	0.44121547	0.10077
-1.0024482	-0.1822652	-1.3351637	-1.0799605	-0.1717651	-0.1359741	0.82018302
-0.3420436	-0.5632661	-0.1308394	-0.4770783	-0.3216337	0.64455549	-0.2212224
-0.5946842	-0.9274741	-0.2995884	-2.0417775	0.08584026	0.48489796	-0.33279
-0.6439466	-0.6478686	-0.2994643	-0.1441449	-0.2122206	0.46557408	-0.003922
-1.1118066	-1.580586	-0.7292487	0.80850645	-1.2227241	0.76984559	-0.4687794
-0.5926012	-1.029225	-0.2626509	1.38676262	-1.8768935	0.51768947	-0.4366238
-1.0615753	-1.0433181	-0.5697393	-2.6556176	-0.8125809	0.5086179	0.01825718
-1.1238757	-0.8463323	-0.3529412	0.77043403	-0.2572779	0.15641866	0.27754343
-1.2002841	-0.9181568	-0.7645823	-0.8857051	-0.1341238	0.37691306	0.28212728

Supplemental Table 2 Tab 1

-2.1102535	-1.9622631	-0.8505254	2.23698135	-1.3030475	0.27755005	0.14799037
-1.9366517	-1.4778476	-0.8409461	-0.1028809	-1.1521881	-0.0945041	0.4588041
-1.1885503	-0.9922031	-0.3771422	0.56209839	-1.405858	0.84307761	0.19634718
-1.1332815	-1.3008896	-1.1213363	1.65064008	-1.1878855	0.22861787	-0.1676081
-0.5036636	-0.2372968	0.18867795	-0.5817755	0.362117	0.71795436	0.26636677
-0.8351791	-1.5963414	-0.6490537	1.63720043	-1.4979501	0.70582457	-0.7611623
-0.7382498	-1.2765267	-0.8230205	1.78163852	-1.3310579	1.23248296	-0.5382769
-1.2924449	-0.8114627	0.00914641	-1.0746795	-0.9336163	0.2569188	0.4809822
-0.7103797	-0.5790396	-0.0972232	0.83249721	-0.741185	0.6455319	0.13134005
-0.8034038	-0.6545149	-0.2998632	1.55153626	-0.5416659	0.59170528	0.1488889
-0.7566404	-0.4073408	-0.2039996	0.01351549	0.28170185	0.67916476	0.34929959
-0.6167482	-1.1213927	-0.7054629	0.56965127	-2.4628912	0.27898391	-0.5046445
1.29618268	1.74869489	-0.93179	0.42216298	-0.3749133	-1.2901888	0.4525122
0.71103641	0.27451065	-1.4537091	0.84312736	-0.4667525	-0.9553265	-0.4365258
-2.5826852	-2.0581342	-1.8837914	2.09833792	-1.8540028	-1.8150652	0.52455098
0.06619083	0.09232754	0.15587426	2.77610759	-0.2814237	0.86729454	0.02613671
-0.7613255	-0.7762758	-0.5253473	0.0860168	-0.7720732	-0.2284703	-0.0149503
-0.7010699	-0.4294352	-0.4803815	1.04876787	-0.501168	-0.1260633	0.2716347
-0.8720582	-0.9806056	-0.459302	1.65129774	-1.1081842	0.43066445	-0.1085473
-1.308328	-1.1919857	-1.4164069	-0.1452198	-0.3956358	0.1933165	0.1163423
-0.4401631	-0.2598887	-0.0683321	0.41907076	0.54559639	0.4222721	0.18027439
-0.7795456	-1.2191964	-0.2759218	1.08566459	0.07862925	-0.0796327	-0.4396507
-1.7341833	-1.9015217	-1.1327679	0.17278144	-0.5953453	-0.3897153	-0.1673384
-0.3668326	-0.5738433	-1.6639672	-0.5772417	-0.7871059	0.39675796	-0.2070108
-0.5709315	-0.5886061	-0.0519931	-0.7355042	0.44993424	0.00699814	-0.0176746
-1.3627549	-1.4516408	-0.7429203	0.62485694	-1.3121453	0.86455994	-0.0888859
-0.8816104	-0.9230567	-0.2442206	-1.1446738	0.22943899	1.37787391	-0.0414462
-1.0252604	-1.2589987	-0.9910141	0.40561099	-0.9570834	0.69021298	-0.2337383
-0.6341854	0.06631758	-0.105288	-0.5120427	0.55017223	0.45146982	0.70050294

Supplemental Table 2 Tab 1

-0.640833	-0.7588389	-0.423905	0.40200177	-0.9685404	-0.5030778	-0.1180059
-2.1775382	-1.9662218	-1.509482	1.25546637	-1.6735437	0.14117791	0.21131635
-1.6780754	-1.5787285	-0.9169842	0.18198782	-0.7613674	0.54094014	0.09934685
-0.7966517	-0.7665	-1.3566723	0.07862353	-0.9024873	-0.8403892	0.03015167
-1.0636835	-1.4569694	-1.0616031	-0.458224	-1.1450329	-0.0619521	-0.393286
0.01815834	-0.0757435	-0.3447827	1.23077932	0.06413587	0.75588193	-0.0939018
-0.0305322	-0.5356419	0.04707774	0.5999408	-0.24913	0.38210653	-0.5051096
-1.2723587	-1.4659899	-1.0086037	2.10417232	-1.9238458	0.3632918	-0.1936312
-1.1775509	-1.7996895	-1.1415287	1.41334897	-1.6688953	-0.3996886	-0.6221386
-1.791883	-1.4133955	-1.3226945	-0.1360115	-2.0419373	0.56497441	0.37848753
-0.5662714	-0.4863976	-0.0645826	-0.2328133	-0.4821872	0.30919646	0.07987383
-0.7882614	-1.1735383	0.66479764	4.64670459	-1.1890809	0.87520356	-0.3852769
-1.0266351	-1.5377705	-0.4909456	0.58455775	-0.6982427	0.74250758	-0.5111354
-1.5376015	-1.3279418	-0.9420303	1.08615664	-1.4540715	0.73430566	0.20965964
-1.0795206	-0.8976627	-0.2689422	0.48704757	-0.6831696	0.50212041	0.18185785
-0.5304126	-1.0648406	-1.2516888	2.17125192	-0.5304487	-1.3703082	-0.534428
-0.5293158	-0.237636	-0.1348187	1.06908106	1.30342078	0.63052314	0.29167977
-0.6058026	-0.5635888	-0.3118788	-1.2830024	1.37958968	-0.2835799	0.04221382
-0.8164064	-0.4871663	-0.2345854	0.91443155	-0.4683646	0.55792555	0.32924006
-0.7165264	-1.6928764	-0.5769287	0.23023521	-1.6175206	0.71958568	-0.97635
-0.4947955	-0.2356807	-0.2628517	-0.6455934	1.00175914	0.61978935	0.25911477
-0.9024039	-0.916753	0.03045932	2.66040524	-0.7003221	0.21120318	-0.014349
-1.3230826	-0.55075	-0.8690798	1.25705518	-1.5415189	-0.4179175	0.77233264
-0.3451164	-0.1223818	0.65747987	0.84246333	-0.1994847	1.22429007	0.22273464
-1.3002848	-0.7774106	-0.9636976	-0.4703878	-0.6340316	-0.6297933	0.52287417
-0.5082357	-0.4625476	-0.202711	-1.1808229	0.22553675	0.5273677	0.04568805
-1.2236373	-1.1700252	-0.3660405	2.44848591	-0.9635466	0.88887496	0.05361208
-0.9742509	-1.1228425	-0.5865588	2.5624812	-0.7977216	0.23133342	-0.1485916
-1.5468908	-1.0195556	-0.8705155	2.61929626	-1.9379845	0.44382289	0.52733517

Supplemental Table 2 Tab 1

-2.317807	-2.0752376	-0.2612398	2.43898332	-1.6924186	0.44734962	0.24256939
-0.9534703	-1.1829353	-0.5217435	0.12033288	-0.0171614	0.59611858	-0.229465
-1.459388	-1.3958528	-0.9684508	0.589037	-0.7669709	0.67269965	0.06353511
-1.7649361	-1.5492309	-0.9603065	-1.3434013	-0.8595875	0.37372029	0.21570514
-0.7048151	-1.1141232	-0.8853512	1.11727693	-0.6819357	-0.2409854	-0.4093081
0.22499378	-0.0082823	-1.0103038	1.14882715	-0.3415174	-0.7734404	-0.2332761
-0.8788778	-0.8431846	-0.4034081	0.68582537	-1.2537396	0.71069136	0.03569323
-1.0595321	-1.0228356	-1.2757585	1.5855097	-0.0850516	0.12642547	0.03669647
-0.7183795	-0.7583488	-1.2879808	-0.4218713	0.47321487	-0.5019549	-0.0399694
0.50189098	0.10422904	0.34446537	1.56431251	-0.3452618	-0.7081091	-0.3976619
-1.297682	-1.1409161	-0.8557457	2.14797363	-1.6246818	0.73084561	0.15676594
-1.0907684	-0.4377244	-0.2308224	2.46239015	-0.1584024	0.52932306	0.65304397
-0.1114433	-0.6161273	-0.3665931	1.41840367	0.22147623	-0.1803348	-0.504684
-1.1347931	-1.0369376	-0.0583252	0.2231363	-0.6110779	1.19990889	0.09785547
-1.436035	-1.8069782	-0.6554283	0.22724132	-1.4959856	0.60136919	-0.3709432
-1.6902681	-1.4273332	-0.7668202	0.46156692	-1.220538	0.5832225	0.26293499
-0.9956624	-1.1358058	-0.1494944	0.63637127	-0.8602996	0.30681404	-0.1401434
-1.7861553	-1.5874264	-0.9272183	0.77423469	-1.4527455	0.59024735	0.19872893
-0.6382088	-1.1864403	-0.4555233	0.73872749	-0.6665333	0.42692589	-0.5482315
-1.8850999	-2.0328116	-0.8149048	0.79643885	-1.1416576	0.12839268	-0.1477117
-0.8270182	-0.8315345	-0.0846808	0.47208061	-0.3111644	0.77559314	-0.0045163
-0.7257212	-0.7665149	-0.2084041	1.25791755	-0.5690945	1.0024457	-0.0407937
-1.054288	-1.040007	-0.457653	-2.3630451	1.20346471	1.88880078	0.01428109
-1.3532093	-1.4840641	-0.1790596	1.8470398	-1.1054014	0.22726238	-0.1308548
-1.3539124	-1.310129	-0.8486983	-0.4998305	-0.9243261	0.46582662	0.04378332
0.3900767	0.28374998	0.12407074	-0.9627842	1.44805215	0.34975118	-0.1063267
-1.1895127	-1.018226	-0.402343	2.09581926	-0.8012862	1.56060899	0.17128669
-0.6362584	-0.5708921	-0.1816949	0.81519021	-0.1480755	0.33037564	0.06536634
-1.0325889	-1.2166497	-0.6635447	0.49623049	-0.933587	0.23700321	-0.1840608

Supplemental Table 2 Tab 1

-0.7844269	-0.4255549	-0.5737643	0.5636046	0.2735433	-0.3885963	0.35887208
0.4626595	0.24441191	0.62125348	1.86937912	0.59862427	-0.6427828	-0.2182476
0.26254653	0.47266553	-0.0030211	1.57419742	0.05975528	0.19702879	0.21011899
0.11838082	0.29114511	-0.5091078	-1.0647657	0.98777945	-0.8440699	0.17276429
0.50914151	1.0335305	0.62351681	-0.4834052	1.78676619	0.91772748	0.52438899
-5.0378852	-5.7869352	-0.1448335	-0.2068124	-2.2951391	-2.1086688	-0.74905
-1.0400319	-0.9323563	-0.5430568	-0.2470881	-0.563885	-0.2799441	0.10767552
-0.4277534	-0.062863	0.15879982	0.20795421	0.62298001	0.00485626	0.36489041
-0.9373255	-1.0077639	-0.7174868	0.3779491	-0.4414666	0.12727682	-0.0704383
-1.0730161	-1.3822062	-0.3400827	1.25970432	-0.5712307	0.83692274	-0.3091901
-0.2603496	-0.4985583	-1.0746745	1.05626822	0.13648534	0.06761774	-0.2382087
-0.4610097	-1.0577938	-0.1960898	1.08154448	-0.9626804	0.17657608	-0.5967841
-1.255461	-0.783798	-0.3971574	-1.270124	0.0619291	0.62097581	0.47166301
-1.281271	-1.5668528	-0.5672702	1.82794776	-0.9119464	0.95949388	-0.2855817
0.09961923	0.96010406	0.36659635	0.53550219	0.02804198	0.38785362	0.86048483
-0.5741901	-0.6852657	-0.110309	0.52185297	0.23705093	0.66195812	-0.1110756
-0.7368842	-1.1925204	-0.0173673	-0.7038702	-0.3835504	0.9602934	-0.4556363
0.23712951	0.57813083	-0.2856673	2.12511875	-0.1777102	0.48563246	0.34100132
0.43927162	-0.0104347	-0.5826943	-1.2614572	0.04295344	0.40789992	-0.4497063
-0.3389176	-0.8051917	-0.4295299	0.06920097	-0.4662265	0.66265228	-0.4662741
-1.0812178	-1.137834	-0.3489639	0.56559607	-0.3784401	0.72013581	-0.0566162
-1.1250258	-0.3133973	0.27280891	2.5095778	-0.5141617	0.76992471	0.81162855
-0.8710016	-0.328015	-0.3302345	2.26123243	-0.8246466	1.1307796	0.54298668
-0.8399718	-0.7073602	-0.1838121	-0.1258567	0.24798273	0.5474865	0.13261158
-0.6681775	-0.8133436	-0.27867	-0.2189925	-0.1317225	0.72854324	-0.1451661
-0.5228024	-0.5575483	-0.227513	0.22396623	0.11952109	0.06468816	-0.0347459
-0.5728756	-0.5430099	-0.0637966	-0.2270469	-0.1391309	-0.1339703	0.02986569
0.14248133	-0.1353785	0.25697707	0.32048338	0.22083189	0.00129188	-0.2778598
0.55139653	0.04280177	0.1570752	-0.7053384	0.50515692	0.42657948	-0.5085948

Supplemental Table 2 Tab 1

-0.5290785	-0.5867563	-0.8701017	-0.808969	-1.2282794	0.13248428	-0.0576778
-1.2040671	-0.9779912	-0.9471871	1.39431858	-1.3110707	0.20197269	0.22607596
-0.6864044	-0.2923055	0.24805115	3.95662898	-0.3691161	0.7352352	0.39409889
-0.4848372	-0.3829227	-0.0508125	5.89635763	-0.1885114	0.27737922	0.10191448
1.45834784	-0.5926366	-0.4089415	1.23657688	-0.0533603	0.23822441	-2.0509844
1.03559983	-0.7863096	0.22470872	2.61996392	0.69567786	0.99933175	-1.8219094
-0.2476449	-0.7022043	-0.3148982	0.6865028	0.51987551	0.54986672	-0.4545594
-0.6080488	-0.8670835	-0.6412112	1.93685588	-0.8353054	0.54308812	-0.2590347
-0.804749	-0.9533845	-0.5941903	1.77959965	-0.9119916	0.45513179	-0.1486355
-0.0313376	-0.5671128	0.24605525	1.71797263	-0.2792485	0.59282922	-0.5357752
-0.0169373	-0.1863333	0.04355422	1.05703714	-0.0529881	0.58067544	-0.169396
0.43047677	0.28373392	0.02510778	0.99465449	0.24648429	0.20155194	-0.1467429
0.20894334	0.11082155	0.04284209	1.22219779	0.20152287	0.30765347	-0.0981218
0.75868014	1.26458759	-0.5526417	0.77600499	0.80529335	0.01892216	0.50590745
0.93623592	1.12519506	0.66759115	0.79412674	0.71208655	0.24340677	0.18895914
-0.4958096	-0.4463934	-0.2931643	0.84454327	-0.1064488	0.14668299	0.04941623
-0.5165648	-0.4123095	-0.0520467	0.39714841	0.07742136	0.78717106	0.10425536
-0.7701882	-0.8752384	-0.2838942	0.34579477	0.66464131	0.30800555	-0.1050502
1.66748989	0.93856542	-0.2037432	-1.9990455	2.20511072	0.58067593	-0.7289245
-0.6817526	-0.6382577	-0.5948132	1.3879949	-0.1632046	1.1867741	0.04349494
0.7774949	-0.1599875	-1.8165593	3.65114254	-0.8601863	-0.5928219	-0.9374824
-0.4677392	-0.7333191	0.10552001	0.02217286	0.42140999	0.15894252	-0.2655799
-0.7412976	-0.8988381	-0.3372878	-0.1065285	-0.931249	0.40097656	-0.1575405
-0.4385628	-0.2222047	0.07986396	0.31529969	0.4151524	0.39575994	0.21635804
0.59903089	0.22054788	0.38748057	-0.9342261	0.39556979	0.46379278	-0.378483
0.4958487	-0.1536046	0.22694402	1.48776121	-0.7011889	1.12035502	-0.6494533
-0.2577963	-0.5034742	-1.1636243	-2.3568969	-0.1482589	-0.5375276	-0.245678
-0.2866026	-0.5514551	-0.1468033	1.33968647	0.15614479	0.47658147	-0.2648526
-0.6333676	-0.7981162	-0.2040179	1.85633244	-0.4055092	0.01325027	-0.1647486

Supplemental Table 2 Tab 1

-0.7422396	-0.7763599	-0.6164654	-0.7399618	-0.9082599	0.22953272	-0.0341203
-0.9358	-1.2280863	-0.1225723	1.34269222	-0.166957	0.37166055	-0.2922863
-0.9092853	-0.9713481	-0.1665168	1.44422871	-0.9377343	1.25927011	-0.0620628
-0.7464895	-0.9562469	-0.5560417	0.16043633	-0.9477499	0.6017473	-0.2097574
-0.8519369	-1.2645755	-0.2697841	-0.5984193	-0.4903033	0.32429675	-0.4126386
-1.2236499	-1.254917	-0.7829088	-0.3888134	-0.3285973	0.19388174	-0.031267
-0.4108779	-0.4439736	0.56399517	0.63804827	0.21598717	0.63216865	-0.0330957
2.56119466	2.35313241	0.20932148	-5.1773538	0.61500345	2.8089152	-0.2080622
-0.6514764	-0.5959899	0.07304816	-0.7646774	0.20786017	0.84266547	0.05548641
-0.7436631	-0.8253114	-0.596838	-1.1971191	0.45146884	-1.3638416	-0.0816483
-0.8323337	-0.7809535	-0.5398605	-1.1278421	-0.947305	-0.2549287	0.0513802
-1.3993957	-1.3878601	0.4576787	1.77531591	-1.9164471	0.86465235	0.01153561
-0.996774	-1.3904521	-0.1839447	1.95563448	-1.6909723	0.73390832	-0.3936781
0.02434514	-0.4380274	0.34729854	2.52854392	-0.0689527	0.85838995	-0.4623726
-2.0302703	-1.7420977	-1.2867652	-0.6962634	-1.945224	0.18667595	0.28817256
-1.6642225	-1.3265584	-0.8277469	-0.1953302	-0.6346382	0.22501673	0.3376641
-1.2144607	-0.8363192	-0.7749967	-0.1595414	-0.2294089	0.55079254	0.37814144
-1.4272905	-1.1282142	-0.8464955	1.07668845	-0.9854528	0.662972	0.29907633
-0.5652126	-0.5874889	-0.0132957	-1.7020011	0.49636018	0.49405684	-0.0222763
-0.7157987	-1.183086	-0.5485767	0.88017753	-1.2381624	0.28698542	-0.4672873
-0.5855152	-0.6769608	-0.618204	0.06913365	-0.2461038	0.43873	-0.0914456
-0.7408008	-1.0340306	-0.3043611	1.8270061	-1.5786703	1.41108139	-0.2932298
-0.3817123	-0.0690482	0.58504524	-2.9987437	0.5969631	1.47794162	0.31266411
-2.9646757	-2.0357733	-1.5302729	-0.0393504	-2.007785	1.66050801	0.92890234
-2.2759661	-1.2947487	-1.3942575	-0.3950015	-1.8898727	1.17274855	0.98121739
-0.6132998	-0.6223077	-0.0421284	-0.7154225	-0.0067806	0.22353101	-0.0090079
-0.9426341	-1.0078441	-0.4600066	-0.3546617	-0.5298829	0.85810339	-0.0652101
-1.0967668	-1.5738859	-0.3991001	2.27851229	-2.2735501	0.81878296	-0.4771192
-0.2298281	-0.3514856	-0.4343005	-0.4679069	-0.4465126	0.776657	-0.1216575

Supplemental Table 2 Tab 1

-0.8848968	-0.9732378	-0.5610671	1.20472984	-0.1038167	0.88322103	-0.088341
-0.6722232	-1.0143263	-0.8258983	0.26915106	-0.18734	-0.1580135	-0.342103
-0.8292885	-0.6563066	-0.7423776	0.73536656	-0.4772979	-0.4004043	0.17298192
-0.7951262	-0.5907316	-1.1352791	-1.6896261	0.00609116	0.24052474	0.20439459
-1.4859129	-1.3095379	0.08975892	1.52356196	-1.0212704	1.76043999	0.17637509
-0.2124319	-0.5571672	-0.3317502	0.55249233	-1.0594505	-0.3565358	-0.3447352
-1.5173634	-1.6884784	-0.2317573	-3.2746289	-2.1228643	0.96835957	-0.171115
0.1569409	0.58368822	-0.1629461	0.94838638	2.91608277	0.24153702	0.42674733
-1.7625875	-1.8983562	-1.5542632	-0.1811101	-3.0530986	0.29959498	-0.1357688
-0.857218	-0.6005552	-0.5524978	0.7656509	-0.3647446	1.01733376	0.25666285
-0.5231224	-0.8103473	-0.1582538	0.60601803	-1.0195191	-0.5499263	-0.2872248
-0.6491743	-0.8469713	-0.3697448	-0.4196839	0.49809331	0.42518067	-0.197797
-0.4283027	-0.2589596	-0.5549661	0.10573893	-0.0633926	-0.1352437	0.16934308
-0.6966385	-0.770287	-0.0725546	-1.6280203	0.53538959	0.88996425	-0.0736486
-0.9083168	-0.607875	-0.9807577	-0.967074	-0.4632328	0.18392794	0.30044184
-0.3449498	0.05464822	-0.6465483	0.32124344	-0.3629661	-0.2101598	0.39959802
-0.9812989	-1.1994729	-0.4937342	2.09226447	-0.5684793	0.26872102	-0.218174
-0.9615832	-1.3923016	-0.3212225	2.3438016	-0.4591124	0.43637675	-0.4307183
-0.6739015	-1.0471536	-0.1465029	2.12965728	0.03099685	0.52368773	-0.3732521
-0.5016484	-0.8790768	-0.5189086	-0.6634645	-0.0846299	0.50377964	-0.3774285
-1.3921341	-1.4320974	-0.6448544	2.15514221	-0.9974266	0.18695939	-0.0399632
-0.0123014	-0.5197203	-0.6950697	3.0197842	-0.3757283	1.28301145	-0.507419
-0.0718229	-0.461018	-0.5004101	-0.2465363	0.11959503	0.69089837	-0.3891951
-0.3299604	-0.1723395	-1.2417246	-2.0051358	0.33918684	-0.3254278	0.15762088
0.33514063	0.07820929	-1.0772426	-1.5808172	-0.118855	-0.2808428	-0.2569313
0.48779384	1.18057225	-1.3089573	0.37537722	-0.886984	-0.4353837	0.6927784
-1.1452983	-1.0838805	-0.8537693	0.50168917	0.15290984	0.07452578	0.06141783
-1.8413831	-1.5227871	-1.5499994	1.15865409	-0.8971395	-0.5309295	0.31859594
-0.1290055	0.18232767	-0.1261097	-0.2604095	0.41020641	0.33628698	0.31133319

Supplemental Table 2 Tab 1

-0.2130581	-0.1700492	-0.6731925	-0.4793189	0.07270441	0.04873257	0.04300895
0.02883399	-0.0495535	-0.8305483	-2.3378254	-0.4482287	0.79598575	-0.0783874
-0.4445871	-0.1522538	0.21987847	-1.9122313	0.32391269	1.13772911	0.29233329
2.27426761	2.71200981	2.53614744	0.88707322	4.50022923	-0.3985542	0.4377422
-0.5334642	-0.6782983	-0.3973308	0.80247374	-0.8348802	1.05386752	-0.1448341
-0.3774498	-0.150116	-0.251632	1.08874281	-0.3214558	-0.4377493	0.22733384
0.01486131	-0.0215808	0.04975732	-1.4570159	0.69875261	0.37480146	-0.0364421
-0.8035437	-0.7753913	-0.0139996	-1.7256089	0.77512101	-1.1749688	0.02815243
-0.6208076	0.01447981	0.44807778	1.08477864	1.39371293	0.73853877	0.63528743
0.01874846	-0.0808272	-0.7303439	2.39267305	0.2126506	0.10205963	-0.0995757
-2.1290404	-1.6363282	-1.4628832	-1.3256038	-1.741674	1.04487667	0.49271212
-1.0152653	-0.903036	-0.3422983	0.71168747	-1.1417846	0.63840876	0.11222934
-0.8608684	-0.8274377	-0.2553547	0.65447659	-0.0006398	1.05917529	0.03343068
-0.5396413	-0.9026925	-0.0921692	0.30968982	-0.5957742	0.71375472	-0.3630512
-1.1695421	-0.9091616	-0.6986355	0.32168458	-0.6292644	0.22566111	0.26038053
-1.0747047	-1.329042	-0.6095401	0.24866868	-0.8837627	0.4702806	-0.2543373
-1.2710173	-1.153839	-0.8924091	1.22842233	-0.5722772	-0.0174412	0.11717833
0.4596083	0.63328093	-0.0804304	0.36099059	1.35031428	-0.324955	0.17367263
-1.4147721	-1.4004473	-1.3165457	1.20238594	-1.2245309	0.51936963	0.01432485
-0.967072	-1.5105541	-0.8175095	-0.757718	0.39760242	0.58359352	-0.5434821
-0.4535647	-0.7142061	-0.3712319	-1.638215	-0.5200716	1.17907846	-0.2606414
-2.5124602	-1.3562689	-1.1564593	-3.4555539	-0.6811414	-0.8768442	1.15619138
-1.9874317	-1.1362698	-1.6542154	-3.4301082	-0.9698623	-1.820034	0.85116189
-2.6772592	-1.9809012	-1.5770482	-3.6759154	-0.7517568	-1.5399491	0.69635803
-1.8254418	-1.7977163	-0.4887398	2.46423827	-1.5946533	0.93494418	0.02772548
-0.7114174	-0.8998499	-0.8624309	-1.5963841	-0.2591845	0.69175439	-0.1884325
-0.4334203	-0.6331849	0.73297878	1.38204494	-0.3421287	1.76395865	-0.1997646
1.12174684	1.21759324	-0.0091451	-0.7577413	0.86214584	-0.7258182	0.0958464
-0.1345601	0.00896685	0.26482823	0.56853114	0.96175887	0.82439974	0.14352693

Supplemental Table 2 Tab 1

-1.5803733	-1.0574673	-0.8452435	0.82847599	-0.577049	0.61010396	0.52290599
-1.5538717	-1.1372325	-0.7356087	0.24265045	-0.5982263	0.79603745	0.41663916
-1.1832277	-1.0924536	-0.8507874	0.3595538	-0.2712388	0.23312298	0.09077409
-1.7968301	-1.5173407	-1.7376235	0.55946276	-1.7724256	-0.6497025	0.27948943
-0.5244783	-0.3460901	-0.0991232	0.51300312	0.71283352	0.33475915	0.17838818
0.01244225	-0.6150914	-1.2799858	-0.0415521	-1.2026063	0.00719424	-0.6275337
-0.1230962	0.05671293	-0.4508235	1.13112051	0.60977384	0.69174782	0.17980914
-0.581232	-0.521573	-0.5838834	-0.9220324	0.23410206	0.89623002	0.05965903
0.0736275	-0.9879272	1.93859946	3.63385753	-1.1280418	1.71008394	-1.0615547
-1.3490117	-1.2140326	-0.7814808	0.01786218	-0.6491359	0.7646798	0.13497907
-0.7073769	-0.48133	-1.2855324	0.3072747	-1.9970952	0.14422827	0.22604685
-0.8729395	-0.7789464	-0.9897177	-0.6235555	-0.4082108	0.82070001	0.09399304
0.03392832	-0.2030538	-0.6850362	0.49179791	-0.0723782	0.26700286	-0.2369822
-0.4993656	-0.8557707	-0.8220277	-0.1281315	-0.3827515	0.41049846	-0.3564051
-0.8522309	-0.9981005	-0.4844294	-1.4563537	0.07462464	0.20028655	-0.1458696
-0.948623	-1.0554353	-1.2783139	-0.0146097	-1.1847733	0.68502497	-0.1068122
-0.0587611	-0.5879419	0.47768314	-0.9331688	1.00572898	0.87796016	-0.5291808
-0.2227895	-0.5725257	-0.0663302	0.59179324	-0.6065073	0.81923985	-0.3497362
-0.6342801	-0.8350286	-0.3975642	0.16408534	-0.7441334	0.54207666	-0.2007485
-1.5788976	-1.0947399	-1.1652212	0.29600102	-0.3281574	-0.2571892	0.48415769
-0.962724	-1.0536074	-0.539976	-0.1496668	-0.5090111	1.29127112	-0.0908834
-1.3202362	-1.2627856	-0.8084366	0.12369401	-0.1107475	0.4611779	0.05745058
-0.0801156	-0.2319174	-0.7275596	-0.7696247	-0.4835147	-0.5826181	-0.1518018
-0.2469182	-0.4077051	-0.1713546	0.07741685	0.15098642	-0.8611799	-0.1607869
-0.5301899	-0.6780013	-0.8463515	0.07635958	-0.4457833	0.15414568	-0.1478114
-0.5733781	-0.6457213	-0.9607573	0.31814704	-0.0060386	-1.1277661	-0.0723432
-0.3961595	-0.4033911	-1.3352221	2.51494368	-0.2927073	-1.4847351	-0.0072316
0.2539322	0.27388179	-1.2531461	2.33073399	-0.1208485	-1.4757334	0.01994959
0.13490626	-0.2831361	-1.666935	-1.463345	-0.5070009	-1.4874559	-0.4180423

Supplemental Table 2 Tab 1

-0.0092971	-0.0713911	-1.1329514	-1.2778125	-0.3527173	-0.8363373	-0.062094
-0.3420105	-0.4041296	-0.7621431	-0.3939215	0.28394373	-1.575098	-0.0621191
-0.3862534	-0.0789759	-0.4752092	0.68747855	0.72816052	0.17421621	0.30727751
-0.3730103	-0.2784273	0.05837327	-0.0589444	0.65514189	0.64413081	0.094583
-0.2202219	-0.035824	-0.2851151	-0.0603189	0.03683899	0.00762939	0.18439794
-1.3879395	-1.4652878	-0.8039068	-0.3119399	-1.0454166	0.13889835	-0.0773483
-1.2300382	-1.7251549	-2.4928206	-1.8271624	-2.5394132	-0.7706659	-0.4951166
-0.4332419	-0.5051589	0.30078845	1.11532564	-1.77154	0.17536338	-0.071917
-1.3284034	-1.343262	-0.7658749	-1.8450257	-0.5487917	-0.1897616	-0.0148586
-1.1497303	-1.3677149	-0.7119733	-2.3464489	-0.2571598	-0.0671603	-0.2179845
0.27225119	-0.0618878	-0.379186	-1.0730774	0.44912875	0.35526198	-0.334139
-1.0611569	-0.9747286	0.31425616	0.41139226	-0.972867	-0.1521415	0.0864283
-1.5090705	-1.6324199	-1.4327765	1.96889942	-3.0001739	0.37453066	-0.1233494
0.19022985	-0.04486	0.03150374	0.48450681	-0.4496783	0.12088803	-0.2350899
-1.1606083	-0.9620786	-0.2022493	1.52793765	-0.8570714	0.23553138	0.19852966
-0.5421937	-0.2093522	0.29662205	0.56962255	-0.1057978	0.45233266	0.3328415
-0.2208141	0.24282905	0.0827031	-0.7915627	0.68687294	1.06015738	0.46364318
0.96508349	1.30387268	0.89395775	-0.8705872	0.70140002	0.85933428	0.33878919
-0.4186966	0.13391845	-0.1102243	-1.284442	0.44283435	-0.1019742	0.55261504
0.43837493	0.67687037	0.06292563	-1.2950196	0.54557535	0.79228485	0.23849544
-0.9733766	-0.7230195	-0.1498957	3.48249407	-2.832713	0.80613706	0.25035711
0.16628478	-0.088389	-0.0731983	0.59668343	0.40278918	0.72963914	-0.2546738
-0.5118041	-1.1779417	-1.0330697	-1.3716098	-1.559171	0.5627528	-0.6661376
-0.5102969	-1.0784527	-0.9058207	-1.3083051	-1.4412879	0.56716405	-0.5681559
-0.9498487	-0.4743108	-3.3126265	-5.645857	1.16704402	-2.6486534	0.47553795
0.14470999	0.24393669	-0.9126937	-1.2806783	0.30198755	-0.670159	0.0992267
-0.6217591	-0.5829666	-0.6691022	-0.1117411	-0.102308	-0.4571032	0.03879248
-0.7854467	-0.6277242	-0.7671459	-0.2307459	0.11307614	-0.2791506	0.15772253
-0.4903558	-0.3248899	0.00794025	-0.5668565	0.43302318	0.38441599	0.16546592

Supplemental Table 2 Tab 1

-0.6296876	-0.3759211	-0.6329009	-1.6809464	-1.4889494	-1.6663912	0.25376647
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-0.7299879	-0.597794	-0.4412267	-1.7912228	-0.8725793	-1.0503496	0.13219394
-0.4528716	-0.1506259	-0.3807726	0.41569594	0.55560603	0.2353552	0.30224573
-0.1019499	-0.7448226	-0.2977914	1.47361946	-1.80974	0.53263388	-0.6428727
-1.0612665	-1.0775033	-0.7771532	-2.2219366	-0.6498201	0.70103682	-0.0162368
-0.6057883	-0.7270546	-0.2791864	-0.5784237	0.02371825	0.64638487	-0.1212663
-0.8855161	-1.2342933	-0.6228668	3.09942445	-1.2795612	0.94398982	-0.3487772
-1.0644998	-0.7606239	-0.6117094	-0.0215004	-4.3950402	-1.9991698	0.30387592
-0.6990143	-0.4962697	-0.6111978	-0.5987931	-4.1995981	-2.1129581	0.20274465
-0.9042326	-0.8083358	-0.4352988	-0.0949412	-4.9137041	-2.0234609	0.09589676
-1.225112	-1.0714128	-0.6088188	-0.492387	-5.0645174	-1.5296405	0.15369913
-1.6646795	-1.059293	-1.4061191	-2.7575013	-0.9172728	-0.3755718	0.60538649
-1.0802785	-1.3025565	-1.0120277	-1.6335796	-0.1503987	0.29302062	-0.222278
-0.7275089	-0.949382	-0.4726007	0.44791813	0.30153125	0.75621577	-0.2218732
-1.5278299	-1.0243668	-0.4665861	-4.2511266	-0.439517	0.62591031	0.50346317
-1.2847806	-1.1138372	-0.2960357	1.38398207	-0.5760905	0.60186929	0.17094335
-2.4844218	-2.4234618	4.14709444	5.44335173	-4.7009694	1.26092408	0.06096
-2.2254961	-2.0901494	4.33214187	4.82030527	-4.2651671	0.7264598	0.13534674
-1.8049968	-1.6290897	3.8642408	4.44669522	-3.5286516	0.71908607	0.17590711
-1.4979614	-1.3565408	2.58500402	5.63521101	-3.6823205	0.54716223	0.14142053
-0.4714567	-1.4280194	0.78476759	-0.9935913	-1.0992023	0.73720202	-0.9565626
-0.3382661	-0.0426162	-0.1622956	-1.0894659	-0.2644786	-0.265667	0.29564993
0.26307739	0.70894515	2.62884679	-0.6391837	0.20116498	-0.6377502	0.44586776
0.90323813	1.03281345	2.99875517	-1.6438282	-0.2299181	-1.3597943	0.12957533
0.7311556	0.79072261	2.8776685	-2.5094808	-0.5596852	-1.0950387	0.05956701
-1.0109146	-1.124098	-0.3835351	0.62745727	-1.1345805	0.55402552	-0.1131834
-0.036884	-0.2912974	1.43160526	1.99090202	0.33893661	0.3681634	-0.2544134
-0.3781003	-0.2833488	1.09038321	1.36631024	0.48345393	0.06088786	0.09475144

Supplemental Table 2 Tab 1

-0.3234122	-0.2188052	1.22014967	2.18159455	-0.5478915	0.14349797	0.10460702
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-1.1929548	-1.1357565	-0.8566446	0.09941564	-0.4033852	-0.4834946	0.05719823
-0.7498635	-0.5503199	0.04387932	1.76449698	0.01068131	0.22843409	0.19954366
-0.9252564	-0.660431	-0.3929111	1.75313207	-0.5442138	0.36028794	0.26482544
-1.0276291	-0.7928939	0.34208189	-2.3675412	0.21529694	1.82373865	0.2347352
0.29238053	0.02893421	-0.0773104	-2.2631524	0.82128897	0.25099104	-0.2634463
-1.666078	-1.8462905	-0.4639314	1.0422174	-0.1608274	0.61820447	-0.1802125
-0.5234777	-0.6403738	-0.289534	0.48034054	0.59013763	0.13067058	-0.1168961
-1.1676512	-0.9779786	-0.4435301	-1.0149393	-0.4165498	-0.0585518	0.18967262
-0.2784047	-0.5205999	-0.0787841	-0.1325567	-0.3216	0.63809784	-0.2421952
-0.4645544	-0.4363162	-0.5132686	0.69115141	-0.0764386	-0.5088699	0.02823819
-0.9644646	-0.5739476	-1.2144914	1.07250088	-0.1442381	0.13977804	0.39051702
-1.9655326	-1.8286679	-1.1324365	1.80813123	-1.9165373	0.04631119	0.13686469
-0.2078301	0.16301861	0.7367515	-2.2771611	0.22866327	-0.5235531	0.37084873
-0.8114127	-0.817788	-0.7389743	0.48709594	-1.9913624	0.58499698	-0.0063753
-1.6403855	-1.3639962	-0.5395437	2.11810691	-0.6016812	0.50016134	0.27638927
-0.3519045	-0.2298976	-0.0276236	0.45700046	0.13230601	1.39085721	0.12200683
-0.8218536	-1.0129127	-0.8212411	-1.3526934	0.29515541	0.29533603	-0.1910591
-0.8788622	-0.6434836	-0.4283945	-0.0621815	0.4127976	0.37886027	0.23537857
-0.3133053	-0.3165782	-0.3872602	1.99567836	-0.1110402	1.06834963	-0.0032729
-0.6279751	-0.3925489	0.87303047	0.35022159	-0.8602668	1.49704217	0.23542619
-0.8618659	-0.6930228	-0.1552492	1.06144666	-0.0341214	1.09395503	0.16884315
-1.4834261	-1.3865055	-1.4487444	1.31251667	-1.0566227	-0.2999156	0.09692063
-1.2311742	-0.8049766	0.1345502	2.30971325	-1.5648881	0.14714614	0.42619761
-1.0580519	-0.8871015	0.21386011	1.91558327	-1.5932626	0.08972665	0.17095039
-1.3549582	-1.0678496	0.53412513	1.38226317	-1.0591328	0.28155466	0.28710858
-1.0163493	-0.8778209	0.32833365	1.14838351	-1.5320566	0.47692852	0.1385284
-1.226832	-1.1752257	0.22976232	1.23162248	-2.0907864	0.87301473	0.05160622

Supplemental Table 2 Tab 1

-1.3283022	-1.4215815	1.1333457	2.28354994	-2.5709863	1.48289061	-0.0932793
-1.0330338	-0.9471064	-0.4935167	-0.4303583	-1.4612139	0.85957981	0.08592741
-0.6935751	-0.2225826	-0.3012982	1.07557982	-1.1355281	1.41316754	0.47099243
-0.1413223	0.42125755	-0.0411609	1.28856771	-1.0156575	1.27404642	0.5625798
-0.0642388	0.4611349	0.28587513	1.60651196	-0.7440057	1.69229068	0.5253737
-0.7729371	-1.1257752	-0.5070854	0.47929186	-0.8891167	0.35787895	-0.3528381
-1.308866	-0.8474098	-0.4740262	-1.3760524	-4.5225995	-1.2995414	0.46145614
-1.4375478	-1.8227814	-1.1954233	-0.8886924	-4.8574607	-1.8396422	-0.3852336
-0.5915975	-0.3683973	-0.3805668	-3.2865182	0.15885998	-0.0969903	0.22320015
-1.0222093	-0.9869639	-0.5115023	-0.3185163	-0.0810102	0.17602325	0.03524545
-0.9860811	-0.6505049	-0.103264	1.40006892	0.3510947	0.03637131	0.33557615
-1.0736166	-0.7412167	-1.4999535	0.04658713	-0.0044133	-0.5139362	0.33239987
-0.859754	-0.8063353	-1.1703401	-1.84484	0.60248368	-0.3545952	0.05341862
-0.6037974	-1.4267956	0.85964949	1.75506826	-2.6661814	2.17656646	-0.8229982
-0.894323	-1.456784	-1.8619871	-2.2395607	-0.9379603	-0.4937505	-0.562461
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-1.461327	-0.9574981	-0.0595956	0.70841259	-0.3452878	0.84157386	0.50382885
-0.8217036	-0.8064544	0.2296379	1.49738772	-4.5195391	-1.249017	0.01524915
-1.6270623	-0.9769751	0.78099333	1.74997244	-1.5604412	0.47445946	0.65008721
-0.3939074	-0.336412	-0.0066724	-0.4227247	0.48594697	-0.7675091	0.05749546
-0.585035	-1.1868606	-5.5577998	1.81379997	1.15308728	-0.5723215	-0.6018256
-2.1093715	-1.8585324	-2.0075884	-3.5096383	-0.2969771	-1.0364869	0.25083911
-0.1512897	0.24103804	-0.1016403	0.62915244	-0.3314232	-0.8058174	0.39232771
-1.2997138	-1.4790649	-0.9295957	-0.5427559	-0.0205774	-0.5812753	-0.179351
0.22627586	0.54216871	-0.5573719	4.27376081	-0.7490819	-0.8308167	0.31589285
-0.6543818	-0.6496901	-0.1981391	0.96680852	0.00210942	-0.7744294	0.0046917
-1.3082554	-1.4482212	-0.6843582	2.19168382	-0.7020167	-1.2930658	-0.1399659
-0.3050096	-0.5738067	-0.5931633	-1.7500461	7.02567369	-1.4591336	-0.2687971
-0.096655	-1.5743778	-1.7178748	-0.3948104	6.66008848	-2.6789201	-1.4777228

Supplemental Table 2 Tab 1

-0.5855432	-0.797567	0.03951096	0.55288957	3.15250408	-0.2669245	-0.2120239
-1.0424066	-0.6893266	-0.1418522	0.61625273	3.19118221	-0.3380044	0.35308001
-1.4187464	-0.9345651	-0.5112081	1.8115717	-1.2615351	1.312955	0.48418132
-1.0519861	-1.1588598	-0.4436856	0.72099181	-0.7853474	0.78053287	-0.1068737
-0.7591695	-0.8474216	-0.7200824	0.82109556	-0.6541303	0.80981088	-0.0882522
-0.808815	-0.6602804	0.00432191	0.20623948	-0.9091357	-0.0653351	0.14853462
-0.4003165	-0.0544957	0.91607467	-0.7253525	-0.988954	-0.4899106	0.34582076
-0.2444477	-0.5317317	-0.2265988	0.24394684	-0.9352674	0.49207717	-0.287284
-0.5730565	0.15411457	0.15589247	0.21180734	0.92624596	1.55981127	0.72717107
-0.2315641	0.34674735	0.0778562	1.47121376	0.40282403	-0.4102931	0.57831142
-0.126123	-0.2152106	-0.4403682	-0.6693657	0.204091	0.34063789	-0.0890876
-0.7548948	-0.6963573	-0.7271669	0.06240077	0.24010312	0.72850902	0.05853757
0.5214589	-1.0629494	0.58328939	3.97619841	-1.5462604	0.69746447	-1.5844083
-0.3715223	-0.6211296	0.19991015	1.82431928	-0.1978332	0.91446496	-0.2496073
-0.3845964	-0.3340554	-0.2556688	2.18346466	-0.4092769	0.09212442	0.05054103
-0.4439332	-0.7934103	1.07265211	3.3982121	1.07896858	-0.4556916	-0.3494771
-0.0967378	0.01094862	-1.2523623	1.08403905	0.4669249	-0.7043968	0.1076864
-1.3143647	-0.8868048	0.2014358	0.02273408	-0.4273001	1.13772755	0.42755995
0.42308949	1.20896925	0.06387913	-7.4888328	1.01474979	-0.4642243	0.78587976
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-1.2487847	-1.2061335	-0.9684886	-1.056415	-1.5422052	0.60187597	0.04265121
-4.747168	-4.8483763	-0.1855557	-0.3570179	-1.7138279	-2.3963307	-0.1012082
-1.2167607	-1.3366538	-0.672734	-0.6590278	-0.3844729	0.54474614	-0.1198931
-0.1080761	0.22054136	-1.1099363	1.93189785	-0.2905854	-0.0232543	0.32861742
-1.2525457	-1.0210524	0.07835247	-1.2155944	-0.6610019	1.12726802	0.23149338
-0.5956432	-0.53766	-1.0268804	-0.1181769	0.60009106	0.5178683	0.05798318
-0.9180234	-0.8517424	-0.4669645	0.59468493	-0.1849727	0.02542836	0.06628103
0.26927473	0.18292978	-0.3834668	-0.7780588	0.75407465	-0.5075654	-0.0863449
0.15125149	0.49220927	-0.3172656	-0.101754	-0.0893156	-0.2364681	0.34095778

Supplemental Table 2 Tab 1

-0.8236987	-0.5246387	-0.7706875	0.51301316	0.33188709	0.34922147	0.29905991
0.22513323	-0.7663351	-0.4636193	-1.7768334	0.79296552	-0.0012613	-0.9914684
-0.7802605	-0.4721629	-0.1575413	-0.3685235	-0.4805244	0.9856946	0.3080976
-1.1928937	-1.3597646	-0.2452627	-0.4986016	-0.3405265	0.50538421	-0.1668708
-0.9054286	-1.1657998	-0.669926	0.11659432	-0.7741183	0.65078615	-0.2603711
-1.2531201	-1.445531	-0.4644927	1.4180417	-0.9011808	1.13832495	-0.1924109
-0.9557709	-0.7648647	-0.459815	-0.9010874	-0.2854153	0.75711066	0.19090622
-1.3325061	-0.8997996	-0.1002846	0.8461815	-0.0938687	0.87880172	0.43270657
-1.8276063	-1.3097816	-0.2037558	2.58330979	-1.0432183	0.52147816	0.51782467
-0.6082862	-1.4608392	-0.9126336	0.90850848	-1.5832032	0.35505222	-0.852553
-0.5560251	-1.8076765	-1.178992	1.27141744	-2.3092846	0.46320213	-1.2516513
-1.1356616	-1.040926	-0.9088916	-2.1912966	-0.012285	0.48959505	0.09473559
-0.1571773	-0.2044915	-0.1596634	0.41546667	0.94221739	0.37392001	-0.0473142
-0.6801658	-1.1064819	-0.3959437	1.15142124	-0.6810048	0.99258033	-0.4263161
-0.1610973	-0.6484585	-0.6784967	0.82196318	-0.9783331	1.10651249	-0.4873612
-0.7114825	-0.5555707	-0.1088541	-0.6411972	-0.1888852	0.76813512	0.15591174
0.55064794	0.17434799	0.07802989	0.87226258	-0.157064	-0.5748937	-0.3763
-1.8929364	-1.4386711	-1.0453732	1.24819023	-0.7765304	-0.4503055	0.45426533
-1.3734774	-1.5270276	-0.6444398	-0.6319299	-0.4819702	0.15359051	-0.1535502
-0.4183088	-0.4958933	-0.3525706	4.26104387	-1.7193644	3.14451554	-0.0775845
-0.848848	-1.1523925	-0.9409043	2.21892332	-2.1743646	-0.1108264	-0.3035445
-1.5888085	-2.1923204	-2.2342619	-6.9869465	0.52182764	0.71812274	-0.6035118
-0.7234105	-1.2508279	-0.6480145	-3.3149803	-0.7918585	0.92597819	-0.5274174
-1.4981956	-2.0315904	-0.7002387	0.60813619	-1.9141636	0.07409498	-0.5333948
-1.0353675	-0.9390022	-0.6683383	0.53718014	-0.5201698	0.31564718	0.09636528
-0.2032093	-0.3805928	-0.798636	2.54825675	-0.534169	-0.8709772	-0.1773835
-0.8744433	-0.8808987	-0.7382171	1.0127808	0.03056069	0.42893077	-0.0064554
-0.3333294	-0.1063455	-0.0765796	0.22866572	0.0201434	0.70612465	0.22698387
-2.24063	-2.4407487	-1.1491771	1.45149174	-1.2703081	-1.042341	-0.2001187

Supplemental Table 2 Tab 1

-0.7077099	-0.2161527	-0.0376701	-0.2369423	0.05095227	0.83412532	0.49155727
-0.7052961	-0.6795226	-0.9340118	-0.6985702	-0.2033866	0.58449207	0.02577356
-1.0161502	-1.1838961	-0.8618813	-0.468662	-1.1638945	0.28402214	-0.1677459
-0.8793466	-1.9564226	-0.4684458	1.98018552	-2.4944542	0.82560226	-1.077076
-1.1273638	-1.012647	-0.5193726	1.02637803	-0.455532	0.7839932	0.11471684
-1.2933733	-1.0292975	-0.1158894	-0.0150427	-1.103022	0.47198763	0.2640758
0.04827582	0.58366174	-0.1580466	-0.9323414	0.34585524	0.2143358	0.53538593
-0.2983972	0.92271548	0.46657668	0.37897707	0.56901088	0.64767784	1.2211127
-1.1566976	-0.312877	0.01885341	-0.7420633	0.48928298	0.31140285	0.84382055
-1.6817692	-1.1717357	-1.0663211	-0.103951	-0.5571395	0.36133359	0.51003356
-0.5347046	-0.0178433	2.8823064	1.90309036	-2.671924	-0.0546494	0.51686135
-0.4806765	-0.0161319	0.18405038	0.84426951	-0.0866845	0.33740524	0.46454461
-0.8984456	-0.5327035	-0.1716985	-1.8435098	0.14551307	0.62648531	0.36574203
-1.1933257	-1.0525502	-0.345314	1.34054309	-0.7302895	0.66235949	0.14077551
-0.8389058	-1.342618	-0.3155094	4.19118412	-1.1276038	-0.0549079	-0.5037122
0.71047378	0.30053022	-1.7841408	1.99880851	-1.3601625	-1.632852	-0.4099436
-0.8952559	-0.1954106	-1.3284951	0.90729378	0.24051776	-1.621961	0.69984534
-1.7488201	-1.5737928	-0.8641656	-0.2537386	-1.6476146	0.00890163	0.1750273
-0.578464	-0.9989513	-0.152358	-0.5381198	-1.1014475	-0.2893675	-0.4204873
-1.16267	-0.9975384	-0.2617172	0.78848342	-1.4178099	0.18331038	0.16513159
-1.1014683	-0.7585123	-0.258128	0.64945798	-0.3552897	1.20863778	0.34295608
1.0245104	1.11666552	1.87329995	1.00598225	1.9202846	-0.175301	0.09215512
-1.2974763	-0.9851638	-0.839251	0.82997278	-0.8617579	0.0265349	0.31231252
-0.8453399	-1.8214502	-0.7943447	0.99093184	-1.9908769	0.27563608	-0.9761103
-0.4379391	-0.4811267	0.20216392	-0.3456009	-0.2071093	0.24955955	-0.0431876
-0.048109	-0.2019399	0.96205296	-0.0458024	0.2755277	0.5528403	-0.1538309
-0.7923027	-0.5905005	-0.6572513	-1.9868076	-0.6453745	0.93495838	0.20180218
0.37126636	-0.0355278	-0.0098175	-1.9008862	1.6605729	0.47476411	-0.4067942
-1.0100144	-0.5918288	-1.0756789	-0.3894634	0.54210778	-0.1299485	0.41818561

Supplemental Table 2 Tab 1

-0.8596123	-0.5999261	-0.5411763	0.54841277	1.51658232	0.57820231	0.25968619
-0.660499	-0.8563737	0.17541241	-0.4426544	-0.3235742	0.53705516	-0.1958747
-1.0967532	-0.7829893	-0.7355421	0.64510287	-0.7107922	0.43319379	0.31376392
-1.4654238	-1.3202828	-0.1248784	3.07503378	-0.8967999	0.62855142	0.14514107
-0.2092981	-0.6090341	-0.1267243	1.88258578	-0.6582759	1.18914548	-0.399736
-1.4661922	-1.4638696	-0.6934501	-0.0019907	-0.9509781	0.84834533	0.00232266
-0.5881002	-0.6687019	-0.773225	-0.5155288	-0.2016422	-0.0910001	-0.0806016
0.3494977	0.05842419	-0.5563964	0.0015802	0.25276425	0.03046821	-0.2910735
-0.4049078	-0.3201698	-0.5329057	-3.2307874	-1.5576365	-1.6535396	0.08473803
-0.3120144	-0.2940524	-0.3256239	-3.147875	0.18807924	0.31702172	0.01796198
-0.3053606	-0.3016051	-0.0747784	0.62269103	-0.4233098	0.47880952	0.00375553
-0.9123115	-0.565678	1.07125574	-0.6710851	-1.8400123	-0.2696392	0.34663347
-0.2894	-0.5966014	-0.1461553	-0.5203452	-0.6791457	1.17659628	-0.3072014
-1.0619263	-1.2589342	-1.652511	-1.5721546	-0.2893268	-0.2392471	-0.1970079
-0.5242789	-0.6552407	0.51320432	-4.5755148	-0.3969498	0.37418983	-0.1309618
0.97173834	0.85617181	-0.2947299	-0.9214377	0.87154868	-0.3358018	-0.1155665
-0.0210026	-0.7576621	-0.5159633	-1.1305148	-1.3884686	0.13703713	-0.7366595
-1.5601705	-1.4234391	-0.6097564	0.52401723	-0.7947112	0.29284291	0.13673143
-1.3507006	-0.9176388	-0.5039543	0.09456947	-0.7323586	0.80673118	0.43306186
-0.6528812	-0.600656	0.08936022	-1.3124162	0.60051431	0.37841233	0.05222512
-0.4403601	-0.7107237	-0.4022354	0.91630591	0.35161985	-0.1819181	-0.2703636
-1.3466706	-1.2819695	-0.5246629	0.55594746	-0.7589402	0.40113456	0.06470115
-0.0153166	-0.0636888	0.07332309	-1.2411889	-0.069002	0.58946564	-0.0483721
0.74277554	0.04447028	-0.2871908	3.27855946	-0.8404982	0.01778242	-0.6983053
-1.1920022	-1.0822308	-1.2275167	-0.0923169	-0.8777028	-0.0410572	0.10977137
-0.1374027	-0.7437024	0.11647542	-0.1244841	0.62171701	0.02309328	-0.6062997
0.09393779	-0.075147	-0.3036679	-0.80898	-0.2989191	0.32233089	-0.1690847
-0.8396753	-0.594513	-0.3172181	-0.5228666	0.17906039	0.69961858	0.24516226
-1.3413208	-1.8622551	-0.5400081	1.24655577	-1.0139597	0.08528964	-0.5209343

Supplemental Table 2 Tab 1

-0.2035739	-0.5150935	-0.6567796	1.86683695	-1.0018535	-0.0204179	-0.3115196
-1.0684964	-0.5882272	-0.5137601	-0.5194377	-0.2041394	0.18816492	0.4802692
-0.2557416	-0.3804115	-0.2227365	1.05533031	0.27756271	-0.02924	-0.1246699
1.24089225	0.83773556	1.099398	1.00655705	1.5532023	0.85326948	-0.4031567
0.01846253	0.01057893	-1.7620481	-1.8536272	0.48253935	-0.7919344	-0.0078836
-1.6747437	-1.3777481	-1.2975793	-1.8089389	-1.2901775	-0.309911	0.29699564
-1.1118971	-1.6831144	-0.3965601	2.54305672	-1.3854948	0.64839478	-0.5712173
-0.9769999	-1.3245648	-0.1388006	2.92726522	-0.7976483	1.28101697	-0.3475649
-1.053083	-1.4493087	-0.5083803	3.23552567	-0.6498952	0.33661346	-0.3962257
-1.3547166	-1.6935958	-0.5227887	2.40274753	-1.1346566	-0.2379348	-0.3388792
-1.2530743	-1.6601283	0.11746276	1.5980608	-2.4233451	-0.0207327	-0.407054
-1.1648415	-1.5738664	-0.0964381	3.40665021	-2.4788284	-0.4293573	-0.4090248
-1.0464794	-1.7118609	0.25114332	6.40224744	-2.7785297	0.819396	-0.6653814
-1.0055856	-0.8120081	-0.2803913	1.45652674	-1.8974199	0.19300073	0.19357751
-0.3301875	-0.5305187	0.28862132	-4.5309626	-0.6060032	1.28492056	-0.2003312
-1.3970979	-1.0199345	-1.3121512	-1.2864682	-0.1662603	0.06266593	0.37716344
-1.9620426	-1.6148143	-0.8074194	1.63798953	-1.0353582	0.23874434	0.34722837
-0.2769087	-0.6644597	-0.4909139	1.34990793	-0.8877437	0.11661491	-0.3875509
-0.2824409	-0.2815756	-0.6888126	-2.4201656	0.10562826	-0.7307957	0.00086533
-0.7886386	-0.5787525	-0.8787016	-1.2915946	-0.5938402	0.11052641	0.20988608
-0.4872651	-0.5217684	-0.7867524	-2.7654402	-0.3777595	0.12921589	-0.0345033
-1.2696133	-0.7893057	-0.6882222	1.18512152	-0.6121753	0.97854036	0.48030759
-1.3672788	-1.8175939	-0.9797872	0.97316142	-1.429984	0.73115671	-0.4503151
-0.5452997	-0.0567936	-0.7957696	-1.9416171	0.12134733	0.72269238	0.4885061
-0.809368	-0.5967891	-1.1437092	0.57331852	-1.1272534	-0.0422625	0.21257891
-0.7848267	-0.829787	-0.4911006	-1.7746458	0.25914952	0.13347732	-0.0449603
-1.3283462	-1.1083938	-1.0360776	0.50183839	-0.381057	-0.2018579	0.21995242
-1.0860662	-1.0571488	-0.4354627	-0.0871661	-0.2716269	0.28106625	0.02891743
0.84969792	-0.2946106	-0.1405252	1.71484914	-1.2394788	-0.5106085	-1.1443086

Supplemental Table 2 Tab 1

0.5849625	0.02439665	-1.0010237	1.56469479	-1.4433996	-0.4473299	-0.5605658
-0.3960979	-0.7499501	0.38755312	0.67223502	0.12244686	1.03538318	-0.3538522
-0.9980201	-2.0519128	0.66210693	-1.7769636	-1.3978322	1.33328213	-1.0538927
-0.8272749	-1.6623581	0.61376589	-1.1142361	-0.7842763	1.17898311	-0.8350833
-1.41583	-0.7698193	-0.705245	-0.4588216	-1.2022985	0.76586879	0.6460107
-0.6445536	-0.884104	-0.297338	1.63235835	-0.5397981	0.44617387	-0.2395504
-0.4153014	-0.1622641	-0.0191819	0.18063439	0.74298175	0.39605277	0.25303735
-0.1704015	0.01138976	-0.2841141	-3.8666278	-0.7780182	-1.6469032	0.18179129
-1.0456642	-1.0019722	-0.692849	-0.1507978	-0.7885534	0.78675183	0.04369199
0.05907598	0.5011737	0.14515513	-0.9292383	-0.1777212	0.23751544	0.44209772
-0.164956	-0.5194423	0.10188815	0.95074534	-0.9137387	0.30915815	-0.3544864
-1.3328493	-1.4484391	-0.6095212	2.35694921	-1.2582171	0.3363098	-0.1155898
-1.0289649	-1.1969793	-0.791708	2.12993191	-1.2119654	0.6769351	-0.1680144
-0.1069036	-0.4655241	-1.9957039	-0.5527879	3.15324763	-1.4269763	-0.3586205
-0.4186498	-0.5452375	-0.4401759	-1.6129929	0.004358	-0.4244014	-0.1265877
-1.4280324	-1.1381346	-0.68901	-0.1279088	-0.6792758	-0.4199052	0.28989772
-0.9227153	-0.5373323	-0.8728451	0.36099372	-1.1339108	0.01879509	0.38538299
-0.4087177	-0.386435	0.69047281	2.85964447	0.7593298	-0.2111026	0.02228263
-1.1457659	-1.0212057	1.24126378	1.19114521	0.72454921	-0.0979842	0.12456019
-0.1229319	-0.211422	-1.3504606	1.32356587	0.24742897	-0.4133235	-0.0884901
-0.899052	-0.6606001	-0.6312833	0.02508814	0.09197603	-0.4913996	0.23845184
1.83728414	1.64110757	0.11243754	0.21661335	0.44021564	0.16568423	-0.1961766
-1.8157566	-1.9003066	-1.0344371	1.08955968	-2.135101	-0.3599609	-0.0845499
2.45784975	1.27419132	-0.5079336	3.94580481	-0.2115535	0.32031504	-1.1836584
-0.2853294	-0.6403144	-0.537374	-0.4828844	0.09465552	0.54754252	-0.354985
-1.3191265	-1.2213185	-0.7160733	-0.7015451	-0.6764011	-0.1637905	0.09780794
-0.8013289	-1.0243196	-0.5893822	0.53297498	0.59358227	0.27040524	-0.2229907
-1.1031929	-0.6458986	-0.1736875	0.43117473	0.51785839	0.21774136	0.45729423
0.33207767	0.59605367	-0.6276305	3.1625059	-0.7492249	0.04131189	0.263976

Supplemental Table 2 Tab 1

0.17225531	0.09517956	-0.2247053	-0.2554848	0.44171579	0.76405345	-0.0770757
-1.3512368	-1.5528468	-1.344951	1.74139052	-1.5437869	-0.4094188	-0.20161
-0.6841947	-1.0283992	-0.1911539	2.43060983	-0.7938301	1.91245664	-0.3442045
-0.4095458	-0.8565716	-0.3330557	0.52638716	-0.2363855	-0.2423832	-0.4470257
0.05069463	-0.5738462	-0.0143644	-3.7083164	-0.007731	0.13630115	-0.6245409
0.09137749	0.29274697	0.13592512	-0.4178895	0.96677402	0.59528746	0.20136948
-1.2365883	-0.8004186	-0.5203148	0.14201042	0.01908804	-0.1155898	0.4361697
-0.6995719	-0.7230972	-0.2645095	-0.2954692	-0.7410544	0.78803193	-0.0235252
-1.0210065	-1.158812	-1.5862544	1.15326877	-0.8435895	-0.1575533	-0.1378055
-0.378129	-1.080501	-0.5349288	2.52714055	-0.8769931	0.26497311	-0.702372
-0.3766589	-0.0061831	0.23512152	1.00743687	0.61327387	0.65649582	0.37047573
0.00974532	0.13015003	-0.5830981	-1.2239878	-0.2065694	1.50191301	0.1204047
-1.1048116	-0.9978289	-0.5966096	0.68486487	-0.390314	0.23095092	0.10698271
0.30326868	0.02624859	-0.1331409	0.81837536	0.13706188	0.75830906	-0.2770201
-0.1149339	-0.8512875	-0.2231212	-0.8776001	0.19829584	-0.0811468	-0.7363537
-1.0258685	-0.919759	-0.8621752	0.17883069	-0.7917262	0.19088867	0.10610948
0.96217316	0.82605555	-1.2046546	0.35465959	0.15339848	-0.6189842	-0.1361176
-0.6582299	-0.7343139	-0.7786514	-2.1002938	0.01674976	0.57085384	-0.076084
-1.5945905	-0.7859777	-1.4694178	-3.4314386	-0.9656376	1.14287875	0.80861287
-1.2783137	-1.0055729	-0.32325	2.31816309	-1.4642929	1.35739961	0.27274079
-0.8885175	-0.729708	-0.0432714	0.39738654	-0.4203332	0.63023652	0.15880949
-1.409467	-1.3038048	-0.9576819	-0.7498069	-0.5450928	0.27522015	0.10566214
-1.534895	-1.3259454	0.02844744	0.60037341	-0.6138608	1.4183246	0.20894955
-1.2812857	-0.9674943	-0.6646936	-0.6266984	-0.4108943	0.48498716	0.31379144
-1.5086917	-1.0868825	-0.4570524	0.68041383	-0.2807784	-0.2826457	0.42180917
-0.4752018	-0.3039031	0.30537991	0.97846493	-2.6604747	-0.7551566	0.17129872
-0.495818	0.02702358	-0.6217551	-0.0812868	-0.2267741	0.43383509	0.52284154
-0.8712645	-0.4418807	-0.1746258	-0.6759853	0.33788127	0.17820337	0.42938383
1.14033296	-0.2253167	0.53728989	0.86513778	-0.6253328	0.74839386	-1.3656496

Supplemental Table 2 Tab 1

1.1085565	-0.0117902	0.77164077	0.94985512	-0.2611579	-0.0438935	-1.1203467
-1.4480182	-0.9486989	-1.1756389	-1.3539316	-0.6926205	-0.135686	0.49931935
0.46310441	0.52235276	-0.0116458	-1.6024924	0.74393273	0.29266512	0.05924835
-0.2015321	-0.2202174	0.07006931	2.39784904	-0.3400885	-0.0042901	-0.0186853
-1.0005494	-0.5491577	-0.9237344	-1.2300254	-0.5004809	-0.2624408	0.45139165
0.17127734	0.07076369	-0.1586979	-0.7139627	0.55876041	0.34942648	-0.1005136
-0.8800466	-0.5909455	-0.6247814	1.29615428	-0.539645	0.77356259	0.28910115
-0.7922793	-0.9265006	-0.8625977	0.10865892	-0.6519571	-0.5708616	-0.1342213
-0.1546988	0.22955679	0.03327669	-0.0227943	1.05267711	0.35547533	0.38425555
1.80666423	1.56129925	0.56967157	-1.0016661	0.93035195	0.11068885	-0.245365
0.05645037	0.08384195	-0.0276267	-2.5048531	0.42997724	1.0245611	0.02739158
-0.8194085	-0.9112569	-0.3459973	1.38872235	-0.7324908	0.94395943	-0.0918484
-0.7000548	-0.6625676	-0.4467947	0.43205228	-0.7729931	1.04612089	0.03748718
-0.8443646	-1.1856142	-0.7223103	0.66315156	0.62870624	0.35456079	-0.3412496
-0.6269357	-0.5277859	-0.1070903	2.53521573	0.01921951	0.32084831	0.09914979
0.05517568	0.50410551	0.20666596	1.60610127	2.88436834	3.14151052	0.44892983
0.47820179	0.2162865	-0.0072695	0.59446542	-0.1657537	-0.3730421	-0.2619153
-0.9807481	-0.6731373	-0.3820276	-1.2314919	-0.0565835	0.86247193	0.30761081
-1.1119693	-0.6121381	-0.2744392	-0.6457085	-0.9124512	0.35990844	0.49983115
-0.441419	-0.4695273	0.61834382	0.64940479	0.54063731	0.82596247	-0.0281083
0.28276433	-0.5711976	-0.2957506	1.64141109	-1.576804	1.14678217	-0.853962
-0.8050153	-0.854425	0.04201388	1.13601173	-0.5038935	1.33243971	-0.0494097
-0.7726911	-0.5132406	-0.8828821	0.37140137	0.46225548	0.46357046	0.25945043
-0.8587647	-0.4875442	-1.0595923	1.01292591	-0.7023488	0.17564862	0.37122042
-1.137827	-0.9264709	-0.81687	0.14623335	-0.7798853	0.82789129	0.21135615
-0.8743841	-0.4482825	0.18344485	-1.4325793	-0.2177081	0.21640238	0.42610161
-0.0821717	0.5416288	0.63511306	1.07571022	0.72315537	0.06973251	0.62380054
-0.1931776	-0.2029971	-0.0985207	-1.0221141	0.28295805	0.21728401	-0.0098195
-0.6671081	-0.4652285	-0.5449032	-0.0294676	-0.1639863	0.56249993	0.20187963

Supplemental Table 2 Tab 1

-0.1909368	-0.2030999	0.29366855	-0.4067733	0.03101088	1.21215163	-0.0121631
-0.634478	-0.4925372	0.23495117	0.77436021	0.59627082	0.87952612	0.14194084
-0.5898175	-1.5363413	-0.6411623	3.31715965	-0.8137045	1.16747297	-0.9465238
-0.8444465	-1.0915204	-0.51511	0.7207577	-0.5805296	-0.1672782	-0.2470739
-0.7312621	-0.5609329	0.06853667	0.53038005	0.56933111	0.85827873	0.17032922
-0.6030671	-0.4293284	0.42710015	1.07651459	-0.0168892	1.27412232	0.17373869
-0.7198844	-0.8723419	-0.6908614	1.08852129	-1.2701748	0.30013678	-0.1524575
0.31832107	-0.1588679	-1.0016254	0.52800572	-0.2017238	-0.0416524	-0.477189
-0.7250365	-0.6185886	-0.6688495	-0.5048678	-0.3374264	0.80372464	0.10644787
-0.9967517	-1.0199217	-0.7237466	0.58237386	-0.5634169	0.60043141	-0.0231701
-1.5872328	-1.3578027	-0.316823	-0.1450213	0.03680379	0.36493805	0.22943007
-1.9294488	-1.7632154	-1.2937566	-0.5110664	-0.7425383	-0.5116716	0.16623332
-1.2502407	-0.9313938	-0.9934672	-0.2474503	-1.1304859	0.52258671	0.31884691
0.28177097	0.44041075	-1.0766803	-2.0471715	0.9777557	0.38257466	0.15863978
-0.7232397	-1.0384367	-0.8224366	1.81101724	-0.307874	-0.1592899	-0.315197
-0.637284	-0.0713677	0.17939945	0.4712565	-0.3403443	0.13685028	0.56591624
-1.2719303	-1.3649964	-0.6191427	-1.6719006	0.09464335	-0.256264	-0.0930661
-0.5743625	-0.9744165	-0.4425262	-0.9485605	-0.1523309	0.5222165	-0.400054
-0.479016	-0.7879834	-0.2663437	-1.8013611	-0.366375	1.27684066	-0.3089674
-0.7374908	-0.6219473	-0.3871801	-0.1007674	0.62647739	1.63785567	0.11554345
0.77577046	0.22741178	-0.5200362	-4.09891	0.28683445	0.80227289	-0.5483587
-1.2204986	-1.2297406	-0.4154354	0.74125302	-0.9244701	0.95274657	-0.009242
-0.3943412	-0.7404807	-0.8580583	-1.4110579	-0.1139731	0.32636176	-0.3461395
-1.6259256	-1.2982042	-1.1546478	0.41186225	-1.1846628	-0.5647551	0.32772143
-0.4433075	-0.7894844	-0.2027748	1.77025425	-2.7673738	0.25562083	-0.346177
0.2123024	0.45785461	-0.4180143	-1.2025033	1.30962665	0.76137516	0.24555222
-0.7537153	-0.7431907	-0.4018852	1.22371699	-0.0717091	-0.0924898	0.01052462
-0.8579656	-0.8885964	-0.2414884	0.05669827	0.1948845	0.57046135	-0.0306309
-0.8945979	-1.0146893	-0.8836266	1.34511102	-1.17507	0.46410789	-0.1200913

Supplemental Table 2 Tab 1

-0.607588	-0.3564618	0.00140503	-1.0784511	-0.0288541	0.26503349	0.25112616
-0.8624116	-0.5530903	0.01530356	0.00440739	0.21324963	0.53471386	0.30932129
-0.2401801	-0.0865118	0.37214945	-0.1991298	0.63354778	1.03905741	0.15366829
-0.8808029	-0.9552677	0.18875763	-0.5847689	0.78447435	0.0503465	-0.0744648
-0.8849006	-0.9044842	-0.3361115	-1.0167356	0.33033018	0.38855345	-0.0195836
-0.2764215	0.03723772	-0.1405753	-1.2515785	0.51257868	0.89124679	0.31365922
-0.8122907	-0.7932951	-0.9288713	0.25670658	-0.91174	-0.7712189	0.0189956
-0.660287	-0.4103825	-0.7017689	-1.4503065	0.24635987	0.28421805	0.24990455
-0.7451607	-0.6510547	-0.5978931	-1.4970298	0.06719086	0.00035769	0.09410606
0.28174282	0.38959435	0.00630983	-0.3938494	0.1640215	-0.6626087	0.10785153
0.2494825	-0.3869776	0.24648438	0.74595971	0.04189063	-0.7500772	-0.6364601
-0.7748688	-0.2112899	-0.3203836	0.5300588	-1.4317162	-1.6460204	0.56357895
-1.0039697	-0.8956137	-0.569293	1.57315521	-1.6548229	-1.8037052	0.10835604
-1.0969223	-0.766601	-0.6467293	1.7597369	-3.995089	-2.3137156	0.3303213
-0.8909564	-0.9078677	-0.5412071	0.17911989	-0.5641273	0.61095954	-0.0169113
-0.5227854	-0.360917	-1.0661114	1.1563348	-0.6800296	0.14797709	0.16186834
-1.0556483	-1.244804	-0.4191653	0.7300422	0.18462601	1.15338431	-0.1891557
-0.5885384	-1.0267948	-0.6448421	1.00186462	0.253873	-0.3242163	-0.4382564
-0.9296677	-1.0144475	-0.3976249	0.48413452	-0.7708521	0.74705612	-0.0847798
-0.2166878	-0.3079387	-2.0566348	-3.7641202	0.06804086	-0.8808825	-0.0912509
-1.1620447	-1.3940285	-0.6797613	-1.7264765	-0.4710673	0.29223298	-0.2319838
-0.9102151	-1.200722	-0.7473385	-0.3271966	-0.001245	-0.0139583	-0.2905069
-0.9659961	-1.6719735	-0.9928439	1.19108596	-1.8221646	0.22608262	-0.7059775
-1.0378811	-1.2862798	-1.015458	-1.3210064	-0.7074497	0.15067928	-0.2483987
-0.7851805	-0.7445764	-1.0743703	-0.3597418	-0.3601868	0.60082073	0.04060412
-0.0650224	-0.5050759	-0.5726642	-1.7752008	-0.4552711	-1.6635035	-0.4400535
0.25253507	-0.1240188	-0.3737582	-5.2189098	0.47028797	0.57628762	-0.3765539
0.08460162	-0.0413941	0.35346963	-0.4449678	-0.2139254	0.74345887	-0.1259957
-0.4549129	-0.5926571	-0.4916532	-0.346597	-0.1759086	0.20478183	-0.1377442

Supplemental Table 2 Tab 1

-1.33205	-0.9557283	-0.4166585	0.79152375	-0.5791512	0.42340172	0.37632161
-0.0463889	-0.1812229	0.4779706	-0.3498275	0.29406874	1.30875866	-0.134834
-0.3837636	0.03084512	0.01030847	-1.1405653	0.64501176	0.24057246	0.41460874
-0.7101384	-0.9271715	-1.0779029	1.119594	-1.062066	0.17916375	-0.2170332
-0.1201293	-0.3271122	0.71542715	-2.3863682	-1.495879	-0.3961819	-0.2069828
-1.0562779	-1.3999582	-0.4531396	1.24184653	-1.3539734	0.81338506	-0.3436802
-1.2721971	-1.0485358	-0.9222929	-2.2612618	-1.1017636	1.1735094	0.22366126
-0.4429938	-0.4612865	0.08520599	-0.3832438	0.49023598	0.86845361	-0.0182927
-0.4016135	-0.4426136	-0.4615252	1.75983716	0.39209644	0.39779479	-0.0410001
-1.0643787	-1.3329599	-0.7278832	1.42138055	-1.1518735	0.21006768	-0.2685812
-1.3316922	-1.2315826	-0.0171227	1.92516453	-1.4917897	1.10513752	0.10010961
-0.7044316	-1.0295396	-0.389294	-0.8619429	-1.1291221	1.12652777	-0.325108
-0.7864315	-0.698447	-0.0902205	-0.3996372	0.31743215	1.83012265	0.0879845
-0.7480319	-0.6912318	-0.8126234	1.06327308	-0.8989427	0.22596497	0.0568001
0.9346948	0.92922766	0.64756135	-3.6040144	0.63749648	-0.1676651	-0.0054671
-0.3787669	-0.3877739	-0.3349957	-2.6090973	1.07263362	-0.5295504	-0.0090071
-0.8042076	-0.9853668	-0.9441104	-0.7417707	-0.3344421	0.14913307	-0.1811592
-0.8813685	-1.1527708	-1.2404102	-2.3939103	-0.1894638	-0.0074394	-0.2714023
-0.7181644	-0.8083906	-0.0186542	1.19093037	0.38614372	-0.2501936	-0.0902262
0.12546508	1.08899488	0.81268265	-2.4256783	0.25113771	-0.4241718	0.96352981
1.36252598	0.62771987	-0.0093048	-2.501989	1.02021644	-0.6649622	-0.7348061
-0.4683746	-0.0788554	-1.0284752	-0.5133164	-0.7681254	-0.8038267	0.38951914
-1.4687897	-0.8634561	-0.0301224	-1.67193	-0.0554583	-2.2993667	0.60533355
-0.5942753	-0.2010242	-0.4530861	0.64956107	-0.0037174	0.1270242	0.39325116
-0.9487694	-1.3570253	-0.2029659	1.65931649	-0.5972018	-0.2149319	-0.4082558
-0.3317355	-0.2242823	0.0128069	1.13801889	-0.2464199	0.51670057	0.10745321
-0.3126712	0.64857379	0.14210607	-1.7239862	0.59770921	-0.4251599	0.96124499
-0.2445844	-0.5071119	0.59032188	-0.6179307	-0.0261835	-0.5619893	-0.2625276
-0.0016507	-0.2784591	-0.5435058	-3.7420707	-0.2959885	-0.044193	-0.2768084

Supplemental Table 2 Tab 1

-0.5979224	-0.7755121	-0.7599786	-0.9739836	-0.6688129	-0.349225	-0.1775897
-1.321818	-1.5421347	-0.5685536	-5.3975177	0.74227111	-0.7678412	-0.2203167
-2.1820329	-2.1647697	-0.7236378	-4.9555394	0.56733829	0.1660681	0.01726319
-0.2272481	-0.8150849	-0.7326727	-2.5537316	-0.5382693	-1.004156	-0.5878368
-1.6547685	-2.0538068	-0.5976803	-1.8829547	-0.6607246	-0.3475723	-0.3990383
-0.1949579	0.10890073	-0.0061226	-2.526513	0.21011542	0.04724218	0.30385859
0.0908548	-0.2462881	0.17918821	-6.2454629	-0.0282989	-1.0799246	-0.3371429
0.79542461	-0.3931129	1.44393748	2.41984037	-1.2773209	-0.5877699	-1.1885375
-0.2282675	-1.3092862	0.80971504	1.57542857	-0.6281942	-0.7254038	-1.0810188
0.48822389	0.23354826	1.0795942	-1.7257428	0.64980962	0.05139967	-0.2546756
-0.4087145	-0.6175322	0.1347448	1.32930383	-0.7385093	0.54871845	-0.2088176
-0.6638243	-1.1409221	-0.592814	-0.071972	-0.7732665	-0.1435869	-0.4770978
0.17775483	-0.2993481	-0.1011518	-0.7169513	0.44564137	-0.1065187	-0.4771029
0.01656047	0.07441004	0.0490323	-4.6330264	0.50514942	0.51649149	0.05784957
-1.1319562	-1.2478588	-0.2770552	0.49779996	-0.7257588	0.90497444	-0.1159026
-0.5822219	-0.9001262	0.54610342	0.06148332	-0.3922184	-0.8672724	-0.3179043
0.08387214	0.02053826	0.17120888	-0.458885	0.03127296	0.94095743	-0.0633339
-0.0136306	-0.0641764	-0.1946041	0.28957965	-0.1829777	-0.4545873	-0.0505458
-0.2250388	-0.6819271	0.9186251	-0.6131931	0.20096419	-1.9106614	-0.4568883
-0.317606	-0.8764417	0.87942367	0.33158442	0.35837685	-2.8407674	-0.5588357
#DIV/0!	#DIV/0!	-1.2330971	-5.2228443	2.31034012	#NUM!	#DIV/0!
-0.2712627	-0.511345	-0.4344678	-0.7819683	-0.4465395	-0.4886123	-0.2400822
-0.7084945	-1.2690572	0.11840736	0.47111493	0.14047507	-0.84983	-0.5605627
-0.2250388	-0.6819271	0.9186251	-0.6131931	0.20096419	-1.9106614	-0.4568883
-0.317606	-0.8764417	0.87942367	0.33158442	0.35837685	-2.8407674	-0.5588357
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-0.6295653	-0.4133987	-0.544617	-0.6055706	-0.1773368	-0.5324925	0.21616652
0.15033259	-0.0993414	-0.6024322	0.26709279	0.26524633	0.21041247	-0.249674
-0.4801438	-0.7529316	-1.9939657	-3.0205281	-0.8684512	-2.3946403	-0.2727878

Supplemental Table 2 Tab 1

-0.7432651	-0.0433325	-0.7790352	1.77620813	-0.2435586	-0.7791993	0.69993264
0.03791188	-0.0099659	-0.6591906	1.05349535	-0.1450708	-0.7689174	-0.0478777
0.3017722	0.1955477	-0.180892	1.15928783	-0.1415435	-0.3794369	-0.1062245
-0.0588072	-0.1733204	0.10364574	1.6148498	-0.132789	0.10036502	-0.1145132
-0.1596688	-0.0958395	0.13252374	0.01676637	0.12229065	0.25587937	0.06382925
-0.7874325	-0.6795884	0.19050836	-0.1322402	0.13685351	0.37591455	0.10784411
-1.8336397	-0.8959239	-1.1121243	1.65016591	-2.0515897	-1.6715736	0.93771572
-1.1110718	-1.555031	-1.5462743	-2.5336822	-1.53243	-0.4523296	-0.4439592
-1.0256908	-0.7853703	-0.2315289	1.77349606	-0.1997661	0.8280281	0.24032046
-0.669434	-1.3079109	-0.3702805	-2.9271851	-0.3997148	1.14262037	-0.6384769
-0.9408474	-0.8400532	-0.6516374	1.80364828	-0.4546435	0.25496581	0.10079418
-0.3378207	-0.4669978	0.06390235	0.44262399	7.43488269	-1.0723412	-0.129177
-0.6373453	-0.7414874	-0.1670041	-1.3181359	0.02306263	0.78690331	-0.1041421
-0.3079342	-0.0734445	-0.2991296	0.15134983	0.35235689	0.83124514	0.23448971
-0.3009503	-0.623362	-0.4665158	-0.4867287	0.02861221	0.48767639	-0.3224117
-0.2980689	-0.0927518	-0.3803836	-3.1775014	0.94676933	0.24265189	0.20531718
-0.8758841	-0.622434	0.12863457	0.30651538	-0.6620579	0.84619171	0.25345015
-0.4995313	-0.2668013	0.38189114	1.60434091	0.18477794	0.50757728	0.23273004
-1.3217714	-1.0582522	-0.9212248	1.37350153	-1.1964642	0.11590799	0.26351924
0.82525683	0.77815148	0.14791799	1.23041129	0.27341834	-0.2399573	-0.0471054
-0.8452267	-1.5399071	-0.8315822	2.18238755	-1.7385065	0.17494485	-0.6946804
-0.7583443	-0.3910973	-0.5133935	-0.954655	-0.5162376	0.34487602	0.36724702
-0.2387919	-1.3008365	-1.5972964	-0.8186554	-1.1722856	-0.6413989	-1.0620446
0.19463866	0.20442857	-0.4012154	-2.1216428	0.72043046	-0.3028482	0.00978991
-0.4471745	-0.4200708	-0.646567	0.12082587	-1.4061757	0.08947226	0.02710377
0.03420437	0.28955756	-0.0948034	-0.0714716	0.59621079	0.49786244	0.25535319
-0.0041623	-0.1253472	1.08066717	1.35622488	-0.089558	2.09539129	-0.1211849
-0.4115462	-0.3798968	-0.0794255	1.57040734	-0.275301	0.01930461	0.0316494
-1.035334	-0.9275372	0.0102727	-0.2726195	-0.9407282	0.5706049	0.10779683

Supplemental Table 2 Tab 1

-0.8166452	-0.796229	-0.5386688	0.63051938	-1.260228	-0.4110449	0.0204162
-0.5942678	-0.9125223	-0.4499658	0.42487578	-1.1925291	-0.3307368	-0.3182545
0.34987579	-0.2573942	1.97152961	-3.779778	0.64765031	1.74213968	-0.60727
-0.5695404	-1.0763326	-0.7758282	-2.3532719	-0.1118092	-0.2656086	-0.5067922
-0.3312364	-0.3483205	-0.0952477	0.09025772	0.06728258	0.58322672	-0.0170841
-0.3089567	-0.4270268	0.14812544	-0.9087597	0.1250897	1.10266836	-0.1180701
-0.4365617	0.56074091	0.63051059	1.19106205	1.02267653	1.27168509	0.99730256
-0.7981451	-0.1556877	0.0517737	2.62927778	-0.3445733	1.0054983	0.64245742
0.01900595	0.59042924	0.21460636	0.64914853	-0.0863279	0.43240114	0.57142329
0.63280663	1.0426313	0.04033064	1.73912181	0.1478827	-0.2683167	0.40982467
-0.620741	0.45212039	0.46033507	1.07177843	-0.0122706	0.56768565	1.0728614
0.46264749	1.09707926	0.60911217	1.11157569	0.21342363	0.15606713	0.63443177
-0.6358938	0.45818442	0.98405497	0.74308731	0.2132221	0.7832853	1.0940782
-0.9447529	-0.0119905	1.17325287	1.28625352	0.41636014	0.98105994	0.93276233
-1.1046657	0.28546486	0.46557693	-0.1840299	0.39118375	0.76798979	1.39013061
-0.8744691	-0.6304567	-0.5097499	0.46237357	-1.0793159	0.82005964	0.24401246
0.02969279	-0.2347135	0.06796634	1.08680687	-0.2380493	0.48800222	-0.2644063
0.08887666	-0.1236829	-0.2643282	2.0655045	-0.8711058	1.00978678	-0.2125596
-0.5770812	-0.37168	-0.3834908	-2.3429774	0.49569696	0.53003329	0.20540125
-0.6656991	0.02741053	0.08595115	0.69950229	1.13695877	-0.0893592	0.6931096
-0.8989535	-0.7775729	-0.202614	0.07913324	-0.3405196	1.02755313	0.12138066
-0.8858152	-0.7766696	-0.2866003	1.11426011	0.1218266	0.69728804	0.10914559
0.33146095	0.45761337	-0.2099216	-1.7316508	-0.0564706	-0.2417191	0.12615242
-2.2037013	-1.5738546	-1.1230801	0.31670811	-1.8791308	-1.2377807	0.62984675
-0.3191583	-0.133195	-1.7934009	-0.7349616	-0.246732	-2.0016678	0.1859633
-0.9398398	-0.6949155	-0.0616417	0.94911767	-0.2113772	0.75396532	0.24492423
-1.386968	-1.0111516	0.83304678	1.32642652	0.2609156	0.85740302	0.37581643
-0.0712318	-0.133297	-0.3548073	1.0655718	0.32942978	-0.3630399	-0.0620653
0.44575743	0.15049163	0.09314809	0.91897989	0.05924641	0.2374857	-0.2952658

Supplemental Table 2 Tab 1

-0.8647229	-0.8811399	-0.9312589	-0.1043575	-1.5107566	0.8400633	-0.016417
1.0027704	0.95863848	-0.2191336	-2.2931132	1.41836568	-0.0431211	-0.0441319
-0.4123055	-0.5233056	-0.7070876	0.69996647	-0.608911	-0.370402	-0.1110001
-0.5046476	-0.4208113	0.31010231	-1.2239963	0.11433443	0.28508291	0.08383634
-0.1851479	-0.1382897	-0.0726988	0.04768988	0.40805132	0.2181028	0.04685818
-0.8598546	-1.0089529	-0.1698465	2.24502615	-1.2813386	1.05297351	-0.1490983
-0.5981724	-1.244025	-0.5769023	1.61113674	-1.126022	0.82514721	-0.6458526
-0.4819464	-0.466182	0.3095401	1.37665533	-0.0645052	1.31551106	0.01576437
-1.1065673	-0.8175473	0.11766037	0.97337874	0.48004246	1.19508772	0.28901999
-0.4801268	-0.4218816	-0.3293795	0.60091746	0.16518167	0.56170227	0.05824525
-0.4629137	-0.5533021	-0.6927359	-1.2552051	0.13257806	0.37751575	-0.0903884
-0.6192692	-0.5817887	-0.1117163	-0.1630118	-0.4273036	0.90369312	0.03748049
-0.7005946	-0.4978326	-0.110937	0.35625668	-0.684154	0.47422228	0.202762
-0.7131044	-0.365179	-0.8146488	-0.7844286	0.15612503	-0.3695335	0.34792549
-1.0113686	-1.2034928	-0.2904188	0.60116871	-0.9304883	1.01453091	-0.1921242
-1.2170976	-1.3108259	-1.3036732	1.15787361	-1.1684561	-0.1355508	-0.0937283
-0.8478826	-1.7130673	0.02829219	2.89392782	-1.4843513	1.23331193	-0.8651848
0.86678916	0.46187809	-0.7686147	-3.4109816	0.50450608	0.72995782	-0.4049111
-0.9267928	-0.8154469	-1.0034887	-1.4625425	-0.6074625	-0.1799632	0.11134584
-0.734581	-0.590972	-0.0299981	0.17638706	-0.6073178	0.969925	0.14360903
-1.5869384	-1.1328708	-0.6690956	2.13828091	-2.3675076	-0.1280608	0.45406764
-0.2722918	-0.6708612	-0.2485277	-1.5702711	-0.0527218	0.46214875	-0.3985693
-1.2223112	-1.0673471	-0.011759	1.48058082	-0.2561858	1.23848811	0.15496413
0.05554206	0.51715518	-0.1264524	0.06297949	0.5257577	0.25875717	0.46161312
0.95051478	0.326604	-0.5164746	2.38739759	-1.028945	-0.5421051	-0.6239108
0.77347401	1.1377254	0.64000768	-0.5188614	1.91256685	0.91322896	0.36425139
-0.079218	-0.970187	0.08912625	1.95133802	-0.2827697	0.63386835	-0.8909689
-0.7163539	-0.7175363	-0.4262034	1.96484864	-1.1924462	-0.1764679	-0.0011825
-1.01113	-1.2049838	-0.343843	0.69226087	-0.0963484	0.24971881	-0.1938538

Supplemental Table 2 Tab 1

-1.5725517	-1.7728987	-0.5427268	1.45355503	-1.2651699	0.26518784	-0.200347
-1.7842983	-1.52764	-0.468561	0.85741406	-1.0471061	1.0337039	0.25665833
-0.1294692	-0.1164134	0.33219098	0.08413762	0.09339787	0.9069607	0.0130558
-1.3787549	-1.36047	-1.1483504	0.87968815	-1.40757	0.48344231	0.01828492
-0.6445584	-1.3961433	0.28281094	4.79348314	-2.2995706	0.63948923	-0.7515848
-1.1902669	-1.8738764	0.33838352	5.54612556	-2.778004	1.35618052	-0.6836095
0.03553064	0.10873843	-0.1145584	-0.3178233	0.56619322	0.39048786	0.07320779
0.22073658	-0.2211973	-0.3149214	0.14207511	-0.3232764	0.51896536	-0.4419339
-0.8847323	-1.0884274	-1.3615103	-1.640204	-0.1769074	-0.4066435	-0.2036951
-0.0520357	-0.0137382	0.00177498	-0.8298861	0.56843945	0.58067415	0.03829748
-1.0858421	-1.0543704	-0.3420754	1.38199156	-1.3622633	1.44419338	0.0314717
-1.1770632	-0.7934567	-0.3399308	0.10841647	0.36013275	0.73197658	0.38360654
0.26451748	-0.7190552	0.05179468	1.31413775	-1.3469177	-0.2938313	-0.9835727
-0.5020597	-0.4283823	-0.3578085	1.57652558	0.07280105	0.78137865	0.07367739
-0.177207	-0.2595852	-0.0904655	0.01182651	0.57106753	0.95999032	-0.0823782
-1.0858825	-0.7685931	-0.3155138	0.55262602	-0.8536559	1.44629287	0.31728938
0.46828852	0.69162944	0.4624106	-0.1335311	-0.2765267	0.47818912	0.22334091
0.20156522	0.27195237	-0.2315225	-2.9788715	-0.0164189	1.8956874	0.07038715
-1.171625	-1.0496111	-1.0470148	0.69115396	-0.2049168	-0.0322609	0.12201383
-1.0612664	-1.1953407	-0.4946018	3.62788952	0.02206842	0.09794317	-0.1340743
-0.676191	-0.4373796	-0.1116562	0.33957947	-0.2017654	0.60167753	0.23881136
-0.6582513	-0.5885092	-0.7753633	-0.955957	-0.1236459	0.31821309	0.06974214
-0.2687095	-0.7228449	0.19033672	-1.473495	0.06805064	0.57495561	-0.4541355
-0.6914783	-0.3569934	0.05491372	2.49691058	-0.0351931	1.30894863	0.33448493
-0.1006817	-0.0383511	-0.1676614	-0.2506893	0.45798646	0.2560622	0.06233058
-0.3301994	-0.3615583	-0.21594	1.33690301	-0.1987	0.76673327	-0.0313589
-1.1502994	-1.1048855	-0.9059375	1.19789022	-1.7554171	-0.0649896	0.04541389
-0.2727991	-0.3362039	0.33213726	0.80037832	0.52441994	0.75878101	-0.0634048
-0.3039706	-0.8493415	-0.1526684	0.34713212	-0.4574654	0.83921717	-0.545371

Supplemental Table 2 Tab 1

-0.7601329	-1.2346926	-0.3097818	0.96378594	-0.5281766	0.25140392	-0.4745597
-0.0643461	-0.231677	-0.6242552	0.20442193	0.43884451	0.11018391	-0.1673308
-0.7322171	-0.5559787	-0.0846682	0.74902893	0.52320972	0.68534405	0.17623837
-0.854886	-0.8164352	0.11638694	1.27689645	-0.2381437	0.8827189	0.03845084
-1.0918364	-0.8008014	-0.0014616	1.27305049	-0.0122741	0.89811607	0.29103497
-0.3941574	-0.3314216	-0.6096731	-2.48182	-0.1192002	0.28061601	0.06273576
-0.4642261	-0.3710596	-0.3228995	-0.9296762	-0.0500957	0.74650673	0.09316656
-0.8951101	-1.4363733	-0.7731231	0.33655409	-0.3861004	-1.2961998	-0.5412633
-0.0095071	0.55524395	-0.3919897	1.73554352	-0.3992805	-0.2489112	0.56475103
1.57466739	0.19019601	0.0299265	2.52872993	-0.0379005	0.69565019	-1.3844714
-1.0021234	-0.8162093	-0.8132205	0.01987213	0.26042461	0.44009709	0.1859141
-1.447916	-1.4867382	-1.018819	1.44252517	-1.1357153	0.01662741	-0.0388221
-1.1398375	-0.707177	-1.004673	0.29119761	0.03100591	-0.025378	0.43266052
-1.1708193	-0.9888269	-2.3272188	0.54485453	-0.4453028	-1.0115412	0.18199241
-1.0967008	-0.480734	0.46887259	2.21337848	-0.8107141	0.55171437	0.61596678
-0.0661002	-0.0708459	0.0307577	-0.1228379	0.54893044	-0.1427078	-0.0047457
-0.0274155	0.35901452	-0.1686847	1.01700022	0.2668241	0.02364762	0.38643004
-1.2956616	-1.3894133	-0.9544151	0.86907267	-0.7744591	0.51806401	-0.0937517
-1.0272182	-0.8913472	-0.2201485	1.32846946	-0.031651	0.44685004	0.13587097
-0.4877123	-0.0894602	-0.7233891	0.29968543	-0.136813	0.58134701	0.39825206
-0.7103647	-1.2437241	-0.8638039	1.26466928	-0.3866098	0.63932955	-0.5333594
-0.0453118	-0.4619612	-0.4509644	1.22504548	0.53756015	0.37192627	-0.4166494
0.67168683	0.3589241	1.24993433	0.49497415	0.96195639	0.94959439	-0.3127627
-1.1492493	-0.1332542	-0.8392027	-0.4538517	0.84011027	-0.3603774	1.01599503
0.38269236	0.62652165	-0.5372126	0.47909334	-1.8128077	-1.6431239	0.2438293
0.11273126	0.07000705	-1.3947468	4.26483716	-2.0912508	-0.1626191	-0.0427242
0.41779876	-0.3812346	-1.4685314	#DIV/0!	-1.9863228	-0.9236778	-0.7990334
-0.4187101	-0.0884576	-0.3724159	2.1065839	-0.0123853	0.65288305	0.3302525
-0.269466	-0.1613806	0.25750478	2.25914173	-0.3246204	0.46472924	0.10808545

Supplemental Table 2 Tab 1

-1.5047205	-0.9091966	-0.9882477	0.6627289	-0.1392705	-0.0022791	0.59552385
-0.8000169	-0.6376039	-0.7228199	1.00981501	-0.1850227	0.84398889	0.16241302
-0.0449608	-0.1370628	-0.115993	1.03377362	0.65701941	0.91922361	-0.092102
-0.5631876	-0.6252467	-0.6412981	0.52512337	-0.6719223	0.31331329	-0.0620591
-0.2736513	-0.3948567	-0.5070745	0.95811835	-0.1823653	1.10419105	-0.1212054
-0.8013262	-0.8238719	-0.5718593	1.48872061	-0.7221135	0.74617553	-0.0225458
0.16492304	0.59606566	-0.1355738	-0.7500454	1.19209059	0.88902336	0.43114262
1.18859855	1.28408942	-0.0424675	-1.6025105	0.0366295	-0.1752369	0.09549086
0.62750384	0.31807973	0.11678527	-0.8670054	0.48487989	0.58486194	-0.3094241
-0.8909702	-0.7914509	-0.2892821	-0.4899385	-0.08156	1.41294291	0.0995193
0.60575047	0.65820157	1.20415381	2.97978199	-0.2561951	2.14095507	0.0524511
-1.1561504	-0.707865	-0.4874309	-1.893125	0.38670138	0.61813969	0.44828543
-0.2711793	-0.5951711	0.06233205	-0.8884258	0.31046995	0.70421393	-0.3239918
0.30921431	-0.8085904	-1.3904899	0.12395158	-0.2563471	-1.289906	-1.1178047
0.22514737	0.4964813	-0.6725789	0.26700744	-0.6311551	0.6506825	0.27133393
-1.131551	-0.9965492	-0.5779431	-0.6834301	-0.4420253	0.24711712	0.1350018
-0.8673486	-0.7550277	-0.2223212	-0.3661971	-0.1825943	0.5593605	0.11232088
-0.4961841	-0.1874018	0.20106553	1.30068363	0.67471752	1.1509885	0.30878224
-0.2129945	-0.0296757	0.09072511	-0.3370704	1.17925307	0.6829421	0.18331882
-0.6231387	-0.340299	-0.1810491	-0.2422571	-0.5926041	1.04450739	0.28283969
-1.3205539	-1.0510207	-1.2793946	1.96543632	-0.8535657	0.32261311	0.26953316
-0.4209398	-0.1599527	0.12089117	0.71977044	-0.1275877	0.54569873	0.26098709
-1.0628763	-0.8077475	0.22164361	-0.1777045	-1.3510977	-0.0564711	0.25512873
-0.8038083	-0.8050609	0.09493355	3.08030682	-0.2732698	0.59304265	-0.0012527
-0.7202494	-0.8476746	-0.3060177	3.03345537	-0.9164975	0.56967683	-0.1274251
0.18224037	-0.2175282	-0.596614	1.88912745	-0.9758794	0.04324407	-0.3997685
-1.1236416	-1.203561	-0.8697192	1.28454672	-1.1455677	0.04093416	-0.0799194
-0.5310958	-0.6159692	-0.6587641	0.81928468	-0.9648547	0.90529234	-0.0848734
-0.9812969	-0.9317831	-0.7172763	0.28283831	-0.4548833	0.51572436	0.04951381

Supplemental Table 2 Tab 1

0.8443226	1.24167971	-0.740712	1.61005884	0.67125459	-0.2722042	0.39735712
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-0.9988755	-1.1587893	-0.5223788	1.5564858	-0.7185213	0.32203455	-0.1599138
-1.3342519	-0.5357646	-0.6266278	-1.136495	1.15074602	-0.1048942	0.79848729
-0.9900527	-0.8414589	-0.8463777	1.37866615	-1.2199458	0.90507519	0.14859384
-0.7414615	-0.9713222	-0.0574672	1.70878982	-1.1100335	0.62260213	-0.2298606
-0.60553	-0.6152873	-0.348732	-1.5508746	-0.4558933	0.11384851	-0.0097572
-0.6567697	-1.0462897	-0.1009321	1.23026154	-0.4766063	1.32073376	-0.38952
1.40576565	1.16323465	-1.4538008	0.35156162	-0.9420023	-0.3421264	-0.242531
-0.4558821	-0.6621239	-0.2222971	0.8413142	0.28816836	1.35680454	-0.2062418
0.53126482	0.4902605	-0.3040493	1.2394216	0.2899852	0.43737636	-0.0410043
-0.959258	-0.8181113	-0.4575159	-0.6769576	-0.3962746	0.57656758	0.14114667
-2.0967652	-1.0718055	-4.0729224	2.40903138	-1.6481399	0.50080785	1.02495963
-1.0483495	-0.9118151	-0.5771088	0.5022401	-0.8176594	-0.2086496	0.13653445
-0.1785967	-0.137754	0.02523869	-0.1829035	0.13006661	0.22248093	0.04084265
-0.0970085	1.12629717	-1.6467375	2.43915567	-1.2049547	0.07438646	1.22330563
-0.68876	0.3820824	0.32855287	-0.2367507	1.04503859	0.71070642	1.07084241
-0.4936056	-0.4363655	-0.2016339	0.87523644	0.56995078	0.90725059	0.05724005
-1.0282833	-0.5459459	0.05079633	1.24752402	0.71993631	0.88800172	0.48233744
0.29147572	-0.5738654	-0.7644205	1.66893843	-1.1326075	-0.4460948	-0.8653411
0.19777549	0.14036701	0.03145827	0.19910078	0.3843909	-0.1128153	-0.0574085
-0.7341359	-0.7963074	-0.7985089	0.56945767	-1.2139596	0.18900758	-0.0621715
-0.6817003	-0.647873	-0.9684712	0.2399265	-0.062881	-0.3064385	0.03382725
0.00172568	-0.4535701	-0.4933278	0.00464162	-0.1118339	-0.0296331	-0.4552958
-0.6207518	-0.5608046	-1.0982508	-1.2610404	-0.5606494	0.58835185	0.05994721
-0.6759684	-0.7437907	0.02979019	-0.4866518	-0.5887899	0.63662497	-0.0678223
-2.6819081	-2.1586274	-2.4544573	-0.808773	0.40278817	-0.469965	0.52328065
-1.5941703	-0.8368662	-0.1701581	1.13856647	0.98769963	-0.0549548	0.75730411
-0.2927976	-0.1736912	-0.2009614	0.63073849	0.29781564	0.53003744	0.11910634

Supplemental Table 2 Tab 1

0.62629184	-0.0357884	-0.5141233	1.25251099	-0.3341948	0.43470389	-0.6620802
-2.0402332	-2.3108588	-1.2315221	0.40577288	-1.6409646	0.89798641	-0.2706256
0.25597335	-0.6336324	-0.3234271	0.63931188	-1.7127387	-1.0604162	-0.8896057
-1.1202942	-0.855595	-0.2667508	0.77595973	-0.6045768	0.08447555	0.26469924
-1.0968191	-1.5739104	-0.878563	-0.0522583	-0.5972191	-0.2663973	-0.4770913
0.10718299	0.18220501	-0.1561056	-0.3380107	0.56555265	0.1445716	0.07502202
-1.3921902	-0.743833	-1.5279213	-2.6913294	-0.7680401	-0.3030291	0.64835725
-5.0717444	-5.441948	-0.5807753	-1.9036431	-1.9253467	-1.6157705	-0.3702036
-1.0150997	-1.5530246	-0.5862967	1.86351541	-1.6603799	0.56527575	-0.537925
0.41980434	0.0635673	0.56906161	2.15848876	-0.2565836	1.48374832	-0.356237
-1.0264143	-0.9323106	-0.3515415	0.60607046	-0.1547311	0.24148222	0.09410375
-0.7489599	-1.7114852	0.20068603	0.77626815	0.83567711	-2.0242507	-0.9625253
-0.631096	-0.6807977	-0.5446621	-1.2604393	0.13512003	0.2321095	-0.0497017
-0.5117944	-0.6993873	-0.8736346	2.71461344	-1.2473022	0.34976085	-0.1875929
-0.1824952	-0.1450804	0.03453932	-0.1047483	0.46908908	0.36294434	0.03741479
-0.3729479	-0.2203706	-0.3902204	1.29479956	-0.4270346	1.30907703	0.15257728
-0.7861964	-0.9655235	-0.1742723	-0.0379735	-0.640319	0.24750163	-0.179327
-0.6798077	-0.9319781	-0.1956497	0.43115503	-0.7260762	-0.1625415	-0.2521705
0.61018195	0.29950531	0.17368436	-1.0041212	0.87575043	0.90118511	-0.3106766
-1.1210418	-1.0545379	-0.8356228	-0.7385594	-0.0523759	-0.4304377	0.06650383
0.26497377	0.22519852	0.06099286	-1.477724	0.36799496	0.42920146	-0.0397753
-0.6989807	-0.5200083	-0.2626622	-1.4138561	0.19333407	0.37102241	0.17897246
-0.5191556	-0.5251251	-0.6608449	1.07499801	-0.4755324	0.47414793	-0.0059694
-0.8346759	-0.6431436	-0.7776826	-0.973275	0.50729803	0.43965041	0.19153232
0.33619011	0.05100929	-0.135978	0.66866244	1.47649055	0.6826709	-0.2851808
-0.4722922	-0.514944	-0.9266491	1.14045111	0.00811865	-0.0480521	-0.0426519
-1.1634002	-1.0927363	-0.1209087	0.80646449	-0.8750635	1.03404087	0.07066384
-0.2953599	-0.4930523	0.14388931	1.93155592	-0.0966501	1.16782612	-0.1976923
-0.5396019	-1.1034607	-0.110295	2.20562881	-0.9497134	1.18536869	-0.5638588

Supplemental Table 2 Tab 1

-0.7872674	-1.1485667	-0.3377681	2.10435754	-0.776159	0.48367325	-0.3612994
-1.1796489	-1.1678155	-0.5227969	1.2720822	-1.2239482	0.79489612	0.01183333
-0.8992763	-0.787654	-0.0955119	3.09799229	-0.4719262	0.1968898	0.11162231
-0.6473732	-0.739298	-0.098473	1.5352144	-0.1632557	0.56800396	-0.0919248
-0.323775	-0.652346	0.17705129	1.82217208	0.04981167	0.63271719	-0.328571
-1.3202036	-1.1525062	-1.0788803	0.78147844	-1.7020591	-0.2699276	0.16769742
-1.7490249	-1.4491772	-1.1066469	1.73601776	-2.0300471	-0.0684001	0.2998477
-0.096734	1.10797517	-1.580296	-0.4462952	0.15764726	-0.8456958	1.20470921
-0.9591228	0.10429153	-1.919543	-0.6570148	-0.0123041	-0.9845273	1.06341432
-0.7034815	-1.0612223	-0.5669225	2.45970389	-1.2914456	-0.3139138	-0.3577408
-1.7832467	-1.3776946	-0.4178238	3.37009173	-0.7712997	0.92556372	0.4055521
-0.7068008	-0.5989503	-1.0939895	3.35377747	-0.9525629	0.64449515	0.10785051
-0.639543	-0.5055472	0.02019825	0.98045808	-0.4417711	0.99464222	0.13399583
-0.9684533	-0.7295991	-0.2407749	1.01111678	-0.1033274	1.31035785	0.23885421
-1.1432559	-0.8739695	-0.5067046	2.13156337	-1.6300227	0.59111235	0.26928637
-0.8933311	-1.0406858	-0.836248	0.85044097	-0.4513535	0.48498111	-0.1473547
-0.3940185	-0.1171769	0.55513315	0.34504626	-0.6990212	2.14476569	0.27684158
-0.9843464	-0.6363642	-0.7905392	-0.9511623	-1.3162538	0.97076826	0.34798219
-0.448553	-0.2390997	-0.2657751	1.21192357	0.36952577	-0.2236689	0.20945337
-0.5494587	-0.367573	-1.0375793	-0.4870119	-0.6932429	-1.1444249	0.18188573
-0.2638853	-0.0503109	-0.0169522	-1.3235662	0.62511164	0.63165988	0.21357439
-0.1998747	-0.0919921	0.03150674	-1.573445	0.60817389	0.72546048	0.1078826
0.99064397	0.74820586	-0.3468885	-1.8794061	0.88069666	-2.8761472	-0.2424381
1.25373805	0.42627144	-0.2566366	0.8538798	-0.4717282	-0.4085618	-0.8274666
-0.3597936	0.16312081	-0.7894913	0.10862535	-0.3017873	-0.3210946	0.52291437
-0.5520469	-0.1973683	0.0654478	-4.6138238	-0.9586844	-0.8250867	0.35467858
3.48876573	4.04145704	-0.2836298	-8.6981787	2.9870237	-2.0886342	0.5526913
0.04207847	0.13918191	-0.0868105	-0.059915	0.51921797	0.20812086	0.09710344
-0.5760561	-0.4250629	-0.6704848	2.04901833	-1.520304	-0.2859396	0.15099311

Supplemental Table 2 Tab 1

-0.032848	-0.0283156	-0.1076797	-0.2266534	0.5761275	0.39494103	0.00453242
-0.3964859	-0.5741969	-1.0617388	-0.5091311	-0.1965669	-0.4464004	-0.177711
-0.0869993	0.02683342	-0.1388874	-0.0135976	0.52030645	0.25155165	0.11383277
0.16023624	0.18741323	-0.1225541	-0.1225835	0.45902595	0.3244491	0.02717699
-0.1411659	-0.1004864	-0.1217392	0.01030567	0.43655568	0.34801901	0.0406795
0.15167159	0.12684233	-0.8250298	0.36091229	-0.8313504	-1.7150604	-0.0248293
0.59652702	0.49432954	-0.4103246	1.47640609	-0.9139577	0.15448396	-0.1021975
0.71070191	0.90430235	-0.7620747	1.81530677	-0.6728293	-0.2199634	0.19360044
-1.1283218	-1.3667995	-0.7406837	-0.7849266	-0.7220212	0.43683389	-0.2384777
-1.8451511	-1.7182779	-0.0913203	-2.8566931	-0.2125446	0.42814246	0.12687314
0.00285965	0.07818329	-0.1574716	0.4805535	-1.7670579	-0.7367793	0.07532364
-0.1898446	0.02442692	-0.1701195	-1.9675655	-0.0909875	0.50382679	0.21427152
-0.3655978	-0.1516446	-0.3449182	-3.0632544	0.87226455	0.24053178	0.21395318
-0.0302004	-0.2583221	0.00551718	0.4591377	-0.3081589	-0.178874	-0.2281217
0.31456171	-0.0083973	0.36382047	0.34517506	-0.4489089	-0.4202875	-0.322959
-1.0325842	-0.9122865	0.0212234	-0.1978116	-0.1618032	-0.2744149	0.12029772
-0.7121068	-1.1468676	-0.16216	-0.3003294	-1.2298559	0.36177053	-0.4347609
-0.3378123	-0.6894077	-0.002875	0.82861887	0.25080645	-0.322431	-0.3515954
0.0471639	0.06598662	-0.1251954	0.04867774	0.49050837	0.22530321	0.01882272
-5.0729743	-5.4335502	-0.5711441	-1.8984034	-1.9248897	-1.6169023	-0.3605759
-0.279728	-0.238281	0.02156905	-0.0083111	0.56569068	-1.0710042	0.041447
0.04607621	0.06591461	-0.1255337	0.05139385	0.49257599	0.22687728	0.0198384
-1.1852659	-1.1857622	-0.4785901	0.17865212	-1.3130569	0.08884689	-0.0004963
1.12467142	1.18118998	0.40473269	-1.5158004	1.87596879	-0.9213419	0.05651856
-0.424249	-0.288502	0.32701423	0.33408588	0.18319437	-1.2651165	0.13574705
-0.642889	-0.7492462	-0.1701564	0.70680449	-0.4537628	0.78687043	-0.1063572
-0.6886691	-1.4270864	0.37884952	3.14013524	-2.1798833	0.90286402	-0.7384173
-0.7004952	-1.1280622	-0.6234443	0.47856617	-0.4937516	0.21310458	-0.427567
-0.181469	-0.329951	-0.1363858	-0.7342611	-0.0683115	0.30554349	-0.148482

Supplemental Table 2 Tab 1

-0.6136697	-0.6203529	-0.0777677	0.67092072	-0.3065487	0.41151908	-0.0066832
-0.284602	-0.4304853	-0.5182022	0.98068445	-0.0753244	0.56024776	-0.1458833
-0.5654922	-0.6962607	-0.7138408	0.42100079	-0.0807523	0.30337283	-0.1307684
-1.5384701	-0.936676	-1.1286191	-1.5802441	-0.3534661	-0.1289253	0.60179419
-0.9202471	-0.6922409	-0.528537	0.89385054	-0.5337733	0.46279625	0.22800618
0.11388276	0.27283751	-0.7246048	0.50057031	0.0657058	-0.2697391	0.15895475
-0.0290241	-0.0766272	-0.0732598	2.99866284	0.18034266	0.14053907	-0.0476031
-0.2415758	-0.3648566	-0.242444	1.82095893	-0.5060655	0.17913667	-0.1232808
-0.7993608	-1.1158839	-0.1180974	-1.4788667	-0.6156972	0.91914852	-0.3165231
-0.9000078	-0.8887936	-0.5594431	0.32600288	-0.2649062	-0.0775482	0.01121428
0.41291799	0.61022351	0.18390366	-1.701335	1.12592091	0.90351392	0.19730552
-0.3438208	-0.311839	-0.4014082	-0.0900534	-0.5336705	0.3471859	0.03198173
-0.8282838	-0.6993777	-0.2321915	0.65699451	-0.4817433	0.44264325	0.12890607
0.04300513	0.47426472	-0.4452892	0.10566932	1.33631001	0.43910215	0.43125959
-0.1654411	1.19328803	-0.5984687	-1.2770957	0.46125025	1.65796649	1.35872908
0.48817797	1.86484784	-0.7982985	0.08992144	-0.1859643	0.97155904	1.37666987
0.23888145	0.3467169	-0.3135793	0.51682124	0.38898884	0.2720814	0.10783545
0.1647817	-0.4328311	-0.4824919	-0.2709263	0.37301025	-0.2179165	-0.5976128
-0.0293132	0.1953679	0.53975961	0.14651611	-0.0552702	-0.6684075	0.22468112
0.60367828	0.96805427	0.71446494	-2.3362957	0.95082363	0.50417866	0.36437598
0.82380306	-0.8369566	-0.9369257	-0.1138042	-2.9383699	0.83401255	-1.6607596
-1.3975761	-0.9151727	-0.5807282	0.42294732	-0.6118234	1.32557587	0.4824034
-0.3395571	-0.015271	0.03676394	-1.8705101	0.42680441	0.68673063	0.32428604
-1.5904066	-1.1425346	-0.2175301	0.2795418	0.08976596	0.72217324	0.44787194
-0.7445166	-0.5053038	-0.3867172	1.39268343	-1.3897113	0.97751024	0.23921283
-0.7967007	-0.7748775	-0.0843645	1.03312524	-0.5701867	1.03009751	0.02182317
-0.5033952	-0.355799	-0.0290625	-0.6433006	-0.0653849	0.6205684	0.14759623
-0.0572569	-0.0808353	0.0294445	1.78628077	-0.6051835	0.23128955	-0.0235784
-0.1291796	0.06356308	0.15229271	1.89144287	-0.324399	0.59798134	0.1927427

Supplemental Table 2 Tab 1

-1.3198508	-1.1973028	-0.5564429	1.11120732	-0.3038784	0.52809708	0.12254803
-0.0873186	0.45744559	-0.2388861	-1.1988032	0.46500216	0.67087867	0.54476417
-0.626928	-0.5190295	-0.0727133	0.12937786	0.08478798	0.36290997	0.10789845
0.17847795	0.17612357	-0.0526703	3.78297493	-0.8082153	-0.2846522	-0.0023544
-0.0093134	-0.3722384	-1.6403569	1.13130666	1.61077009	-0.4567095	-0.3629249
-0.4533394	-0.2881876	-0.1746566	-0.152486	-0.2547338	1.41598354	0.16515185
0.32395276	0.50533688	-0.3523446	1.3019498	1.6665648	-0.0115392	0.18138412
-1.5446431	-1.1586584	-1.550753	-2.8868121	-0.3394328	-0.7552717	0.38598478
-0.0699161	-0.4442012	-0.1904829	1.32742615	0.32593998	-0.0240252	-0.3742851
-1.6289569	-1.8424134	0.5731128	2.45005604	-2.0191907	1.21574609	-0.2134565
-1.1197769	-1.6977472	-0.0123552	3.64381911	-2.4856817	0.37996903	-0.5779703
-1.1993194	-1.6613884	-0.4055287	3.37687777	-2.6156194	0.22261739	-0.4620691
-1.1209211	-1.2137321	-1.1047363	-1.0520535	-0.7773168	0.52959209	-0.0928111
0.28130813	-0.3248801	1.75113308	-0.0619428	0.96611568	1.01777745	-0.6061882
0.14952841	0.24055363	-0.1732374	-0.7156377	0.9690401	0.50789021	0.09102522
-0.6373711	-0.050352	-1.0210797	1.71470477	1.47007502	-0.4771175	0.58701909
-0.1197012	-0.2313097	-0.2938861	-1.6328833	0.0494979	-0.0515495	-0.1116085
-0.3500909	-0.2290926	1.18226592	0.12066569	-0.4088822	1.00230476	0.1209983
-0.9574814	-0.9760031	0.21449301	1.95064527	-0.2335271	-0.198005	-0.0185217
-0.452913	-0.6965652	-0.3123641	-0.9523033	1.44416759	0.44935738	-0.2436522
0.44972963	0.59891704	0.37287509	-0.804981	0.86463824	0.44608237	0.14918741
-0.7259882	-0.427866	-0.5918804	-1.1471045	-0.3580409	0.87205628	0.29812215
-0.5190763	-0.5258949	-0.0099876	1.27565725	0.73128918	0.3685486	-0.0068186
-0.3485657	-0.4723124	0.18784177	0.71344962	0.40273865	0.59843456	-0.1237467
-0.7708186	-0.430288	-0.1917823	2.28034284	-0.1298883	0.31740046	0.34053055
-0.5749048	-0.5496988	-0.0142213	-0.1571191	-0.0649284	1.37844589	0.02520602
0.17437141	0.15201945	-0.4372769	1.10242829	0.10147423	-0.4860084	-0.022352
-0.4364346	-0.6858973	-0.5844126	-2.0595873	0.36281507	0.69456166	-0.2494627
-1.018756	-0.930374	-0.9743236	0.95824334	-0.2290156	0.73589195	0.08838205

Supplemental Table 2 Tab 1

0.16614976	-0.00511	-0.1210616	0.64609478	0.83402788	-0.1786239	-0.1712598
-0.2668545	-0.495906	-0.3836698	1.56907113	-0.1822033	-0.3082692	-0.2290515
-1.1654915	-0.9126654	-1.3176713	-4.0855118	-0.5025043	1.20649822	0.25282611
0.47199178	-0.2097689	-0.1675205	-1.1368944	0.97054685	0.77254111	-0.6817606
0.14868289	-0.0523772	-0.1160407	2.10209181	-0.0576951	-0.2829239	-0.2010601
0.47129962	-0.015266	-0.7810879	2.3745629	0.01664469	-0.0673299	-0.4865656
-0.4645036	-1.4364318	-0.1726075	-0.2239892	-0.1797194	-0.1841839	-0.9719282
-0.2358935	-0.4300594	-0.5275292	0.81286382	-0.7800056	0.28066589	-0.1941659
0.02609283	0.21968508	0.36270763	0.0881829	1.176328	0.43114434	0.19359225
-0.4303528	-0.4838422	0.03971018	-0.9780522	0.2507586	1.10315963	-0.0534894
-1.4344634	-1.1588469	-0.8048846	1.07906598	-1.2165264	0.31547074	0.27561644
0.01285335	0.41852819	-0.1287872	0.45595508	0.47194361	0.76542965	0.40567485
-1.009294	-1.1739266	-0.6465564	0.52519361	-0.5492233	0.35293319	-0.1646325
-1.0363731	-1.1622628	-0.7971865	0.65048714	-1.0637056	0.08315578	-0.1258897
-0.2812954	-0.3041171	-0.1880958	-0.0780376	0.63537261	-0.347298	-0.0228216
-0.219724	-0.4247497	-0.5072399	-0.6325265	0.15460778	0.05568969	-0.2050257
0.0453275	0.23349143	0.39953251	1.36968837	0.20031009	0.80587119	0.18816394
0.08894786	0.243777	-0.3488684	0.47103175	0.68449029	-0.5287575	0.15482914
-0.1682158	0.00704197	0.23795236	0.03550855	0.31268453	0.61572085	0.17525779
-0.3062514	-0.2952325	0.1488717	0.22023116	0.33314139	0.9587053	0.01101885
0.94761904	0.0067934	1.12568625	1.30240164	0.68573747	0.4000674	-0.9408256
-0.3733344	0.12379923	-0.1176931	0.89118325	-0.3383295	0.7286922	0.49713362
-0.7325479	-0.5137185	-0.5066258	-0.7485536	0.50444364	-0.1552309	0.2188295
-0.8263008	-0.9484294	-0.301211	0.53970754	-0.1063565	0.51321387	-0.1221286
-0.0214804	0.16312243	-0.4539988	-2.3854416	0.83200809	-0.3117028	0.18460278
0.03342717	-0.1381309	-0.7639326	0.75621607	-0.2474709	-0.6483463	-0.1715581
-0.2102556	0.10114031	-0.4151268	1.18305391	0.46697843	0.22920851	0.31139594
-0.0690975	-0.1669933	-0.2855165	0.12511145	-0.0205662	0.91946607	-0.0978958
-0.5673682	0.03514973	-0.0828368	-3.4115925	0.30586658	0.0252703	0.60251794

Supplemental Table 2 Tab 1

0.35589286	0.22277474	-0.4780971	0.59310874	0.65044623	-0.4972026	-0.1331181
-1.5910242	-0.6591741	1.18211429	0.31030607	-1.0915951	1.43511545	0.93185015
0.93156989	2.0827586	0.53629857	0.03637005	1.70713896	0.5081062	1.15118872
-0.5861923	-1.0010426	0.47820215	0.94517788	-0.274795	1.15304536	-0.4148503
-0.2636367	-0.0607217	-0.3862148	-0.1463793	-0.0961117	0.48910559	0.20291502
-0.6527548	-0.4024375	-0.7124943	-1.9898031	0.60456569	-0.1548992	0.25031735
0.70631312	0.98600603	-0.7012937	-2.6017051	2.43478041	-0.0370904	0.27969291
-0.9696892	-0.963791	-0.3534384	0.20779025	0.13702957	-0.9713819	0.00589819
-3.1267918	-3.1293986	-0.3834727	-0.6213216	-0.9953834	-1.9345754	-0.0026067
-0.1846875	-0.2459303	0.2991185	1.48056486	0.33736097	0.17195542	-0.0612428
-0.3125035	-0.4694687	-0.276252	-1.9149815	0.25003212	0.8120278	-0.1569652
-0.1709735	-0.3509675	0.32106937	-2.1002058	0.64146399	0.4501415	-0.179994
-0.2223518	-0.1232293	-0.0492409	-1.3806578	0.89974256	0.18753762	0.09912253
0.57307997	1.19826465	0.01547141	-0.734383	1.23565843	0.59970397	0.62518468
0.20030014	-0.43158	-0.1049226	-0.4379298	0.08554389	0.54903964	-0.6318801
-0.7901799	-0.7485192	0.07974049	1.09812679	-1.2263616	-0.2053055	0.04166066
-0.8866085	-0.5598443	0.15022148	1.71053134	-1.4696766	-0.406103	0.32676419
-0.8494207	-0.5040145	-0.4674911	2.40517424	-0.0965216	0.47773865	0.3454062
0.43908173	0.85899845	-0.1107862	-1.7644341	0.55357287	-1.2931444	0.41991672
-0.3185281	-0.0906751	0.00803685	0.08486271	0.46402879	0.22737588	0.22785299
-1.8117774	-1.2223924	0.16431439	4.35579235	-3.0109005	1.65255009	0.58938501
0.05609346	0.44501298	-0.2213545	-0.246688	-0.2177479	-0.5590872	0.38891952
-0.7160477	-0.1660127	-0.6735534	0.01700139	-0.2602313	0.17483205	0.550035
-0.7388949	-0.2224216	-0.7318357	0.29520178	0.26879474	-0.6973566	0.51647328
-1.6404117	-1.2057337	-0.6133997	-2.272043	-0.8053503	-0.0918753	0.43467807
0.77366325	0.20756411	0.00546376	-0.6338835	0.49461925	-0.8109605	-0.5660991
-0.1104018	0.42272671	-0.7718744	-3.5885144	1.11689795	-0.4193177	0.53312855
-0.9850021	-0.4731912	-0.7923177	-2.3914987	0.41317307	-0.7465566	0.51181093
-3.0138973	-3.1948465	-0.2460781	-0.5373781	-0.8658923	-1.8983548	-0.1809492

Supplemental Table 2 Tab 1

0.43168039	-0.1043263	-2.4945424	-2.4941918	-0.2924429	-0.8455042	-0.5360067
-0.1373706	-0.6144375	-2.7871171	-3.2154393	-1.5457081	-2.0447967	-0.4770669
-1.2160554	-1.1761053	-0.5991131	0.36992833	-0.9644467	0.30082404	0.03995015
-0.7220197	-0.862554	-0.5878787	1.33750823	-0.6106118	0.79225109	-0.1405344
-0.8550269	-0.8722125	-0.4197055	0.74056882	-0.7527008	0.73056595	-0.0171856
-1.7566967	-1.0832274	-0.3166936	-0.5497183	-0.8617524	0.96008442	0.67346929
-0.5012684	-0.5245269	-0.5324708	2.61010394	-0.9053553	0.55077149	-0.0232585
-1.0370622	-0.6575344	-0.2945361	-0.5576785	-0.1808581	0.79030383	0.37952775
-0.5248123	-0.5631683	-1.7617496	-1.886053	-0.0486262	-1.1912578	-0.038356
-0.5800797	-0.4352632	-1.5753	-2.7594332	-0.3828537	-1.1830108	0.14481653
-1.2342532	-1.3108522	-0.7112249	-0.0298593	-1.6958208	0.83183905	-0.0765989
-1.2445864	-1.1562149	-0.4769111	-0.9579039	0.45990481	0.31613027	0.0883715
-0.9921015	-0.7264147	-0.5010651	1.1003918	-0.2059593	0.19113664	0.26568679
-0.8611851	-1.083828	-0.9238563	1.11845725	-0.6751763	0.20737387	-0.222643
-0.7297083	-1.0096115	-0.7683756	2.90524011	-1.637314	0.28242894	-0.2799032
-1.1623702	-0.8857927	-1.0118658	-1.2291707	-0.3653322	0.08495171	0.27657748
-0.2007332	-0.3674157	-0.8373555	-0.2250124	-0.4629971	0.50886438	-0.1666825
-1.601104	-1.4686705	-0.7128878	0.17950755	-1.0836605	0.33615521	0.1324335
-0.871786	-0.6747086	-0.9406325	1.02112624	-0.9401106	-0.2770438	0.19707741
-0.3006179	-0.1871313	-0.2175341	0.49576533	0.01415969	1.07877165	0.11348659
-1.2478055	-0.9409411	-0.8539304	-0.9468878	-0.4791895	0.16329035	0.30686434
-1.1829467	-1.4344455	-0.8794455	-0.8498987	-1.5213073	-0.1896078	-0.2514988
-0.8569251	-1.0199565	-0.3194955	-0.1138308	-0.4030402	0.59620452	-0.1630313
-0.9871378	-0.395507	-0.5341127	-2.954895	0.18032622	-0.1046338	0.59163081
-0.8886448	-0.8170992	-1.2401386	-3.5580904	0.06862773	-0.8849923	0.07154558
-0.8666051	-0.5648124	-0.6385774	-2.7105693	0.21869334	-0.2855282	0.30179267
-0.4715234	-0.1874014	0.32069182	-0.2169715	-0.1154962	1.41630584	0.28412199
-1.0002586	-0.4581014	0.25389057	1.85547793	0.18534834	0.9886773	0.54215721
-0.6321562	-0.6128751	-1.0171045	-2.2612122	0.43922015	-1.2360843	0.01928116

Supplemental Table 2 Tab 1

-0.983008	-0.5955687	-0.4183035	1.02337337	-0.4954488	-0.5602193	0.38743933
-0.5861756	-0.6869306	-0.4357039	-2.8262765	0.82276955	0.48748883	-0.100755
-1.1386116	-0.6984786	-0.0564892	-1.7569077	0.61953523	0.71628061	0.44013298
1.78453875	1.48197895	-1.1020588	1.81215699	-0.125856	-0.9119275	-0.3025598
0.34742464	0.02072747	0.57376434	1.01101705	0.77216278	0.75883332	-0.3266972
-1.132424	0.02238789	-0.5230116	1.36622539	-0.7180039	-0.291834	1.15481187
-1.0261967	-0.867052	-0.7777171	0.66317552	0.07155414	0.17041197	0.15914465
-0.3617005	-0.4273343	-0.4614323	0.9309827	0.12276409	0.05906101	-0.0656338
-0.7291196	-1.0125237	-0.336614	-1.169334	0.25762832	0.2070745	-0.2834041
-0.9671463	-1.3622889	-0.2612873	-3.4541711	-0.3703524	0.27865279	-0.3951426
-0.8652486	-1.1588631	-0.281631	-0.0162423	-0.0843653	0.39116723	-0.2936145
-0.9841038	-0.8047938	-1.1331541	0.23461645	-0.4054586	0.16369338	0.17930999
-0.471459	-0.9189838	-0.6687004	-0.2318987	-0.7302694	0.22886586	-0.4475247
0.21842315	-0.25866	-0.6627443	1.41626632	-0.7472824	-0.0648732	-0.4770831
1.04069964	0.46879329	-0.5701154	2.75872519	-0.4039494	-0.537097	-0.5719063
-1.3035942	-0.5859319	-0.6607912	1.40554828	0.7476835	0.44012991	0.7176623
-0.7400824	-0.9648146	-0.4539928	2.09454842	-0.8254422	0.53754894	-0.2247322
-0.9381282	-1.3451259	-0.8482669	1.27869533	-1.4876659	0.33560563	-0.4069977
-0.9774546	-0.7664954	-0.4393187	-0.7286106	0.04413187	0.24433583	0.21095928
-1.0523969	-0.6830915	-0.443507	0.66235041	-0.919129	0.78978126	0.36930542
0.22513488	0.42585358	-1.6950177	2.19141925	-0.9481279	-0.5055617	0.2007187
-0.881305	-0.4412749	-0.699194	-0.1346442	1.32332553	0.37730525	0.44003012
-0.9941721	-0.6484379	-0.8547101	-0.1112517	0.98873399	0.89989816	0.34573414
-0.3640486	-0.2553501	-0.5522525	0.3022587	-0.6337716	-0.1115115	0.10869855
-0.1837654	-0.0463083	-0.0866534	0.58292248	-1.1085874	-0.7713905	0.1374571
-0.3941705	-0.9244653	-0.2177483	1.6135932	-0.4292986	0.22642374	-0.5302948
-0.0540334	-0.0447567	-0.0862385	1.47019973	0.27455796	0.6701844	0.00927672
-1.0849272	-0.8512201	-0.9367398	0.07988369	-0.3957993	0.64273636	0.23370705
-0.5771069	-0.4282627	-0.635564	0.12044839	-0.5128132	0.45178018	0.14884418

Supplemental Table 2 Tab 1

-0.8231132	-0.8589102	-0.6151532	1.33291586	-0.352632	0.44280469	-0.0357971
-0.6530979	-1.1708313	-0.1419402	1.62645967	-0.5611235	0.92458515	-0.5177334
-0.3036741	-0.3766056	-0.4499998	-4.9232242	0.22881507	-0.044206	-0.0729315
-1.1842529	-0.914055	-0.5695309	0.93670359	-1.4234744	0.52060049	0.27019788
-0.9383388	-0.8893727	-0.8212995	0.16849466	0.41137363	-0.0063553	0.04896618
0.03511182	-0.0930198	0.35343803	-0.4758487	1.05832293	0.35608114	-0.1281316
-1.4075784	-2.0848668	-0.348128	2.47434167	-1.3686435	0.59309822	-0.6772884
-0.4152994	-0.9798284	0.3981648	0.50181145	-0.5041165	0.7087739	-0.564529
-1.0681963	-0.9323129	-1.4969053	1.05086532	-0.7839181	0.07102007	0.13588343
-0.1227935	-0.5738512	-0.0130632	1.1505073	-0.3236532	-1.3466278	-0.4510577
-0.6708373	-0.8023421	-0.2012942	-1.0882923	0.7360548	0.48290109	-0.1315048
-0.9050834	-0.5216784	-0.2076621	-0.8475533	0.70604221	0.63337889	0.38340495
-0.7937385	-0.5600206	-0.1166138	-1.123845	0.70512603	1.05835014	0.23371793
-1.2377337	-0.3479518	-0.2963495	2.51645336	-0.9283127	1.76700038	0.88978187
-1.0690787	-1.1442086	-0.7851749	0.52790449	-0.980112	0.71149707	-0.0751299
-0.0687951	-0.0601796	-0.2360664	-1.8535668	0.61684426	0.45702253	0.00861545
-0.8743685	-0.9431172	0.31940914	1.4612066	-0.4873982	0.24056083	-0.0687487
-0.0580092	-0.3221674	-0.1380225	-0.1640172	-0.6548433	-0.2408192	-0.2641583
-0.2148811	0.07813515	0.20132721	-2.3417251	0.48956891	-1.146853	0.29301625
0.93565666	0.4692154	-0.2995919	-1.3005563	-0.0867668	-0.1703936	-0.4664413
-1.2973632	-1.0844686	-0.9847504	0.96714825	-1.6851699	-0.5315068	0.21289463
-0.6505841	-0.8957183	-1.0251531	2.7053527	-0.6304418	-1.2557211	-0.2451342
-0.5831553	-0.2865301	-0.2498244	-1.0626516	-0.2528091	-0.8014737	0.29662519
-1.223291	-1.0223166	-0.5143639	-2.5532949	0.30963687	0.26336041	0.20097444
-1.3248521	-0.801975	-0.8642481	-1.1561245	-0.4179786	0.57927165	0.52287703
-0.7134016	-0.7673284	-0.2832255	2.1157882	-1.0643902	-0.3573613	-0.0539268
-0.4468455	-0.0646995	-0.430207	-0.6524998	1.15489666	-0.2390661	0.382146
-0.6113598	-0.8088388	-1.7503002	3.8906347	-0.2824955	-1.2859406	-0.197479
-0.6492705	-0.6137026	-1.0371113	-2.5258494	0.7353838	-2.408459	0.03556785

Supplemental Table 2 Tab 1

0.36233415	0.06993429	-0.7216166	-0.1041686	-0.4760653	-1.4164904	-0.2923999
-1.5730486	-1.5305701	-0.2518552	1.5011765	-1.2809667	-0.0873716	0.04247853
-1.4809851	-1.4345122	-0.5033139	1.93316485	-1.9926519	0.14186222	0.04647291
-0.1210012	0.07387771	-0.4350169	-0.0654667	0.08621763	0.10769755	0.19487893
0.09630177	-0.0984173	0.56919607	0.77058365	0.72118787	0.32097696	-0.1947191
-0.6062261	-0.5789659	-0.2153321	-0.3689135	0.5375399	0.09292561	0.02726026
-0.6520389	0.18688885	-0.5237011	0.86346732	-1.1821917	-0.6398681	0.83892774
-0.4122533	-0.5231362	-0.8295267	1.34868673	-0.452774	-0.3791693	-0.110883
-0.25904	-0.0095132	-0.1034206	-0.7616357	0.10556772	0.62714369	0.24952673
-0.7023702	-1.7234314	-0.3398928	-0.3437691	-1.4731034	1.62789294	-1.0210612
-0.6510846	-0.7933253	-0.3502553	-1.1747871	-0.3298166	0.8233538	-0.1422407
-1.4326662	-1.5738575	-0.9179042	0.04149337	-0.9359183	0.54608246	-0.1411913
-0.274372	-0.7301536	0.12184129	-0.8807368	-0.1785297	1.28209825	-0.4557816
0.8467826	0.80261502	-1.3334237	1.62280585	-1.0622217	-1.2953722	-0.0441676
-0.9250565	-0.8112063	-0.0190745	0.60712044	0.3483371	0.36686818	0.11385027
-0.0965778	-0.8372939	-1.90271	-0.3237681	0.28710201	-0.7781116	-0.7407161
0.39281244	0.15206611	-1.5007872	0.16542542	-1.7724788	-0.5886296	-0.2407463
-1.1565659	-0.8185272	-0.0778071	-0.8633282	0.26613014	0.98996806	0.33803878
-0.6130888	-0.3584649	-0.1370863	-0.4858595	-0.3123255	-0.0286148	0.25462394
-1.6749222	-1.353425	-1.0800111	-0.3400835	-0.8728388	0.42956354	0.32149725
-1.4968838	-1.6430987	-0.0871571	-0.5555826	-1.5972553	0.38709691	-0.1462149
-0.9591585	-1.0881215	-1.7622151	-7.3611283	-0.8423099	-0.0678688	-0.128963
-0.5499816	-0.4165575	-1.1492109	-1.044553	-0.7597467	-0.2288318	0.13342407
-0.8811341	-1.1878358	1.3663771	4.99711449	-1.8733365	1.33252956	-0.3067017
-0.7061738	-0.4567434	-0.3541454	0.85785611	-0.1104585	1.28985159	0.24943041
-0.535975	-0.1012983	-0.2706772	-0.3317958	0.12127913	0.67870862	0.43467664
-1.2446314	-1.6909177	-0.7692063	1.1193226	-0.7908957	0.56703072	-0.4462863
-1.0820921	-0.7792056	-0.5578291	2.84811417	-0.8487734	-0.13353	0.30288648
1.0407491	0.56369538	-0.5941212	0.05778142	0.17212645	-0.0866786	-0.4770537

Supplemental Table 2 Tab 1

-0.79257	-0.8806893	-0.5373053	-0.6595486	-0.7945184	0.52608724	-0.0881193
-0.8042445	-1.8341731	-1.0756423	1.76117348	-2.4126952	0.24654043	-1.0299286
-0.3879941	-0.3783185	-0.6115077	-1.5929209	-0.2183452	0.59494364	0.00967559
-1.1944172	-1.6278607	0.74108504	3.68493183	-1.9127717	0.99758566	-0.4334435
-0.1588101	-0.6796644	-0.5677131	1.28045574	0.73450224	-0.269587	-0.5208543
-0.4772105	-0.7019483	-0.5375542	1.38980209	-1.7410124	0.54291775	-0.2247378
0.17629601	-0.5738525	-0.1701424	-0.9609843	0.98778215	0.53004197	-0.7501485
-0.6377728	-0.7734108	-0.5851519	1.84783863	-2.0196439	0.24446613	-0.1356381
-1.1808257	-1.5603132	-0.5227437	1.55360212	-0.4620046	0.32294486	-0.3794874
-0.5402829	-0.2017661	-0.3043145	1.83508844	0.12696684	-0.6417609	0.33851675
0.29554109	-0.0192835	0.46111534	-0.0509762	0.10702512	0.7061382	-0.3148246
-0.8032012	-0.7145575	-0.3946949	2.2499421	-0.3149722	0.54585249	0.0886437
-0.2629882	-0.2283755	-0.0052899	1.68686601	0.146028	0.90264105	0.03461273
-1.2419822	-0.2955653	0.41103417	1.18582907	-0.4092413	0.92880382	0.94641697
2.22522884	2.0891943	0.35348158	0.99838308	0.88466171	-0.247532	-0.1360345
-0.2642364	-0.2090873	-0.2632578	1.07415129	0.0842601	-0.1237819	0.05514907
-0.0188808	-0.351187	0.28566121	3.74741238	-0.5967638	-0.9454418	-0.3323062
-0.5360585	-0.1144495	-1.3835315	0.68131216	-0.2089776	-0.5221267	0.42160904
-1.730355	-1.1675466	-1.2512148	2.78744819	-2.2097036	-0.2480156	0.56280844
0.72086213	1.22318435	0.00622193	-1.6454609	0.14475952	-0.331519	0.50232222
1.19183332	1.64556983	-0.2241	-1.7147915	0.23183791	-1.1304934	0.45373651
0.3277682	0.26570162	-0.4105182	1.63168965	0.27556394	0.32454341	-0.0620666
-0.8253567	-1.2061331	-0.6411354	1.36963338	-1.9633625	0.24821641	-0.3807764
-0.8049958	-0.3962255	0.04028287	1.5184206	0.03361897	0.23268265	0.40877027
-1.579383	-1.3636543	-0.5939474	1.88510214	-1.2956896	0.69674702	0.21572869
-0.3745399	-0.9753746	-0.0961995	2.62782709	-1.1090566	0.1799233	-0.6008346
-0.2300347	-0.3037734	0.25032335	0.70545848	0.73310721	0.70002064	-0.0737387
-1.2873904	-0.8077429	-0.3945481	0.66932877	-0.213874	0.72392873	0.47964748
-1.6581866	-1.3219281	-1.6840332	0.89893456	-1.2842519	-0.1550055	0.33625848

Supplemental Table 2 Tab 1

-0.3976047	-0.5656364	0.09640789	-1.1973426	0.38356159	1.07853162	-0.1680317
-0.4984488	-0.2613535	-0.063416	1.45560824	-0.427902	0.81206058	0.23709526
-0.0574577	-0.3698102	0.41149936	2.91157686	-3.7654379	0.45206521	-0.3123526
0.21166483	0.145324	0.29425796	2.23409777	-0.7101508	0.92515403	-0.0663408
0.21479508	0.04504022	0.16611335	-1.7096422	0.4519878	1.03973079	-0.1697549
1.42490222	1.77137463	2.1491349	-4.4295495	0.67488988	-0.1198789	0.34647241
-0.9157518	-0.5676181	0.06034478	0.18996175	-0.4933102	1.18465971	0.34813367
-0.6817395	-0.5965933	-0.1663893	0.21864149	-0.1101107	0.86547302	0.08514617
-0.6817173	-0.7140654	-0.751402	-0.1775174	-0.8195575	0.51766475	-0.0323481
-0.7487777	-1.0207403	-0.5884388	-0.3765775	-0.9428716	0.32937784	-0.2719626
0.04091274	0.7480633	0.66761755	0.77609255	0.65648918	0.23242006	0.70715057
-1.6374124	-0.4865614	-1.6466728	0.77598241	-0.8702968	-0.4439315	1.15085103
-0.5795426	-0.781281	0.28673194	0.94638651	-0.2793065	0.89229107	-0.2017384
-1.7146234	-1.1736862	-1.0686768	-0.8439279	-0.6144539	-0.2414571	0.54093724
-1.6177782	-1.3083376	-0.4609528	0.52808898	-1.6237029	0.53733331	0.30944065
-0.7357312	-0.9925812	-0.5093204	0.32856281	-2.0515422	0.20252074	-0.25685
0.0964014	0.01307536	-0.0167585	1.0413971	-1.1608491	0.39217303	-0.083326
-0.1258848	0.72477679	0.25880535	1.63863568	1.86482078	1.13366342	0.85066157
-0.2880883	0.34106543	0.30870225	-0.5543796	0.30773078	1.12930536	0.62915375
-0.333471	0.40701939	0.17715636	0.97779773	-0.0271209	0.93913356	0.7404904
-1.2739636	0.10179523	0.27320835	2.26582408	-0.0274148	0.63157163	1.37575884
0.12929208	0.85399007	0.32753759	-0.459859	0.40656568	0.41399122	0.72469799
0.80186186	1.79271125	-0.0819159	2.35452178	0.09314622	-0.1929438	0.99084939
-0.2264028	0.60106279	-0.322714	0.3811624	-0.2282407	-0.2926307	0.82746557
-0.3125168	1.19479571	0.01853966	3.67205047	0.22587426	-0.3786452	1.50731249
2.05314277	3.11276548	-0.0928627	5.07278438	-0.0862719	-0.8484347	1.05962271
0.27513352	1.91981084	0.37455817	5.16974999	0.44607786	-0.7122393	1.64467732
-0.9667701	-0.1376312	0.63007199	0.76498275	0.3461288	1.14197642	0.82913892
-1.2212691	-0.1489311	0.85694621	0.68479959	0.40504761	1.03519325	1.07233801

Supplemental Table 2 Tab 1

-1.3040022	-1.3184724	-0.7317361	-0.0346094	-0.1208046	1.36702359	-0.0144701
-1.3255922	-0.2480962	-0.5713827	0.41677359	-0.2168927	0.55971408	1.07749591
0.04430307	-0.205476	0.01724315	1.30981432	-0.609764	0.71409177	-0.2497791
-0.545595	-0.4128735	-1.1516096	-1.0454774	-0.7586246	-0.2288881	0.13272152
-0.7975587	-0.7536798	-0.0615975	1.1524945	-0.694681	0.74273692	0.04387895
-0.8411055	-0.3984898	-0.2102279	1.39088127	-0.4738005	0.43013763	0.44261577
-0.0333647	0.71442821	-0.0644743	2.23508449	1.18518655	-0.3638201	0.74779291
-0.9259947	-0.8033546	-0.2408273	-0.6116124	-0.9443235	0.74688604	0.12264008
-0.8006293	-0.6037717	-0.3514362	-0.3976263	-1.0417626	0.7394985	0.19685769
-1.5898861	-1.2982581	-1.0689906	-1.2866513	0.45895433	-0.0885988	0.29162803
-0.4987496	-0.583821	-0.3295068	2.19886598	-0.2187328	-0.1949523	-0.0850714
0.06724052	-0.0039681	-0.5523528	-1.7530803	3.7787686	1.95659206	-0.0712086
-1.1144745	-1.2590301	-0.3384242	-1.3854182	0.00345262	1.0716383	-0.1445556
-1.926078	-1.7398846	-0.5557996	0.34903422	-2.3171877	0.98319813	0.18619332
-0.5838166	-0.4496867	-0.059468	1.13016938	-1.4159945	1.25085508	0.13412994
-0.7039814	-1.0169456	-0.3868098	2.40784733	-1.3899345	0.54449816	-0.3129642
-0.1707878	-0.2544602	0.00465993	0.36250183	0.1717013	0.47490191	-0.0836723
-0.1649447	-0.2635167	0.21876197	-2.3572518	0.66562139	0.60013575	-0.098572
-0.0523875	-0.0192823	-0.3611359	-1.864762	0.8593646	-1.1289145	0.03310524
-0.511652	0.23348749	-1.2746437	-0.460914	0.22885729	-1.44851	0.74513953
0.34384834	0.42617432	0.65828407	-1.2495852	0.62517716	0.93060794	0.08232597
-0.4122857	-0.7962653	-0.3709366	-0.9829046	0.83574957	0.54994862	-0.3839796
-1.5724202	-1.3591441	-0.6127813	0.61858442	-0.908112	0.4948062	0.21327605
-1.5091334	-1.0861427	-0.364222	1.76272739	-0.9130572	0.68002851	0.42299068
2.52414162	1.55909185	1.85288128	1.71995784	0.13445732	0.53614802	-0.9650498
-0.5999016	-0.4807605	-0.3937598	0.62116614	-0.7507457	0.48275352	0.11914111
0.77770653	0.95668388	-0.1490685	0.67645582	0.14385506	0.30764658	0.17897736
0.81013099	1.0408331	-0.258014	-1.6768524	0.96864348	-0.4345952	0.23070211
-1.0434317	-1.4782884	-0.2362529	1.06936948	-0.7250003	0.88884112	-0.4348567

Supplemental Table 2 Tab 1

-1.6760963	-1.4524822	-0.9428526	1.33753915	-2.3298927	0.35588556	0.22361408
0.125617	-0.9890184	-0.6174269	3.16042389	-0.6200369	-0.0106164	-1.1146354
-1.0601863	-1.559397	-0.1678451	3.2059413	-2.4863846	0.75632357	-0.4992107
0.92841145	0.69859825	2.12417152	2.75353992	1.62898132	0.38178503	-0.2298132
-0.8534943	-0.7539451	0.26462552	0.60807349	-1.2979229	0.68072139	0.09954921
-0.3732727	-0.6782098	-0.3470169	2.11531068	-0.5758491	0.25731602	-0.3049371
-0.6583524	-0.5139541	-0.3068959	0.71693255	-0.4580751	0.13205698	0.14439832
-0.4992061	-0.4554713	-0.0533046	0.21502325	-0.4647853	0.32728073	0.04373476
2.329487	1.74805657	0.04153243	-2.5842517	1.27895379	-0.6074211	-0.5814304
-1.7397168	-2.1864217	0.12573466	1.64390395	-1.1937575	0.90821221	-0.4467049
-0.7236879	-0.9144414	-0.568325	2.02165068	-2.0130754	0.2307898	-0.1907535
-0.6081866	-0.7847376	-0.4136803	2.37681074	-1.9499329	0.12112144	-0.1765511
-1.0323672	-1.017475	-0.4055871	1.95996839	-1.5310828	0.51078721	0.01489219
-0.9647926	-1.0178701	-0.6232466	1.82642636	-1.7369568	0.21122555	-0.0530776
0.48759182	0.23237838	-0.7761591	1.65168861	-1.4868282	-0.3343536	-0.2552134
-1.0236211	-0.4218655	-0.2336432	1.97672703	0.06606533	0.31177176	0.60175562
-1.2089912	-0.8726688	0.21770383	1.27850416	0.02128541	1.07787384	0.33632245
-1.1507321	-0.8788731	0.03685755	1.0706205	-0.5634385	1.21409453	0.271859
0.00418759	-0.8351984	0.00413982	1.35833982	-0.8394368	1.31855176	-0.839386
1.15477141	2.02816753	0.35342286	0.00476193	1.77011483	0.53517012	0.87339611
-0.0401657	0.4696132	-0.4214609	0.47986259	-0.0096719	0.59534251	0.50977891
-0.6857513	-1.1069319	-0.2961315	2.89028037	-1.174183	0.25648103	-0.4211806
-0.2770925	-0.3305817	0.5461867	3.74137079	-1.7277538	-0.0603173	-0.0534891
-0.2941258	-1.5361921	0.03329551	3.77480039	-2.2759296	0.9357527	-1.2420664
-0.2184584	-0.8488432	0.29061536	1.89334361	0.28298154	0.83557441	-0.6303849
-0.3875411	-0.2292075	0.32956603	-0.8211213	0.05597437	0.49771888	0.15833365
-0.153436	-0.3587411	-0.0007842	-0.03977	-1.9668348	0.36685813	-0.2053052
-1.2879638	-1.2539758	-0.0442436	1.5936921	-1.0506544	1.42990451	0.03398797
-1.4326071	-1.3674086	0.01440894	2.87055771	-1.6105051	1.14185062	0.06519855

Supplemental Table 2 Tab 1

-0.1122264	0.50090036	0.20848996	0.27298223	1.00969853	0.82914384	0.61312676
-0.210567	-0.2422575	-0.9927801	-1.7029626	-0.7011917	0.31098531	-0.0316905
-0.1624605	0.0281201	-0.3149703	-0.0667479	0.30120734	1.18453132	0.19058064
0.07976934	0.03866074	0.0218893	1.49871834	-0.4409155	1.3284155	-0.0411086
-1.7303755	-2.2916185	-1.0052483	1.43177751	-2.0895339	-0.3550979	-0.561243
0.25860567	0.89315843	-0.566221	-1.1852913	0.13601142	-0.3681086	0.63455277
1.0095357	0.17409011	-0.3873229	-1.390394	5.59534899	3.2279311	-0.8354456
0.21895432	-0.5191845	-0.4403868	0.89082376	0.153448	0.06134614	-0.7381388
-0.679301	-1.0787715	-0.205443	0.20862054	-0.5360282	0.55529666	-0.3994705
0.48813363	-0.2201888	-0.7668764	4.32028999	-1.5837739	0.36651916	-0.7083225
-0.7748631	-0.868628	-0.1359707	1.28785878	-0.9640423	0.68007911	-0.0937649
-1.0495415	-0.9572552	-1.101215	0.86359735	-0.5686238	0.03877292	0.09228633
0.99723208	1.11529061	0.36978582	0.54985902	0.44805439	-0.0307162	0.11805854
-0.5683863	-0.952353	-1.2113531	1.56956683	-0.394541	-0.6875354	-0.3839667
0.22500995	0.76161383	-0.6706171	1.69740684	0.43821166	-0.5235423	0.53660388
0.35740702	0.20293832	0.06262746	2.20368873	-0.6688642	0.53625845	-0.1544687
-0.5116522	-0.7256806	-0.0899658	1.10365461	0.61560056	-0.2240553	-0.2140284
-0.4686355	-0.2108902	-0.2628811	1.56192129	0.4608136	1.47075735	0.25774536
-0.217395	-0.1520382	-0.1245934	0.25270977	0.09265074	0.13864058	0.06535684
-0.6734246	-0.7936497	0.1450937	-0.4445824	0.32475803	1.282587	-0.1202252
-0.6863119	-1.5557321	-1.3115946	0.98112363	-0.1549432	-0.1834302	-0.8694202
0.24501843	-0.017762	-0.6534565	-1.925102	0.65348196	0.18238886	-0.2627804
0.60230016	0.51672919	-0.2259843	-1.8939419	0.99852347	0.3202626	-0.085571
0.5276543	0.48497791	-0.6464993	1.65039377	-0.7201481	0.47661821	-0.0426764
-0.4998277	-0.6573825	-0.1757465	-1.320246	0.09340235	0.26702491	-0.1575547
-1.718356	-1.0883691	-1.6273869	-4.0654137	1.01010943	1.08093046	0.62998697
-1.1247876	-0.7984645	-0.4755105	0.78888672	-0.6785726	0.38692652	0.32632309
-0.1299331	0.15158118	-0.2327579	2.50921094	-1.5855309	0.41090368	0.28151427
0.89627276	1.00396124	-0.0253367	-2.8047482	1.39167684	0.2241895	0.10768849

Supplemental Table 2 Tab 1

0.79074611	0.4776668	-0.448506	-1.0948641	0.93522484	-0.0224803	-0.3130793
-0.2015031	-0.3680693	-0.623583	0.71792264	0.2044434	0.51739293	-0.1665662
0.12563253	0.19166053	0.17653553	0.10697572	0.69556458	0.62591383	0.066028
-1.4351696	-1.5478554	-0.5442477	2.05238236	-0.9810008	0.44100295	-0.1126857
-0.6504602	-0.1424836	-0.1778365	1.67804924	-2.1486434	-1.1609459	0.50797655
-0.5346947	0.16301866	0.25785338	1.41483539	-2.0232213	-1.3251865	0.69771333
-0.8666699	-0.0860736	0.20621414	1.41496172	-2.2132504	-1.3724792	0.78059637
-1.5027952	-0.7369604	-0.0278168	2.37989536	-2.8186879	-0.5403077	0.76583481
-1.4368649	-0.7564624	-0.0636096	2.27211398	-2.838244	-0.5241275	0.68040249
-0.2893533	0.23348749	-0.0901978	-1.4737826	0.10310874	-0.2828466	0.52284079
-0.389671	-0.3437493	0.49346903	-1.347837	0.32532794	0.2642659	0.0459217
-0.033209	-0.275524	-0.02776	-0.2465882	-0.0270323	1.20316988	-0.242315
-0.7311124	-0.5061187	-0.6520174	-0.6522263	-0.767945	-0.0350953	0.22499363
-0.2412803	-0.4751015	0.45081262	1.33265162	-0.249217	0.97031561	-0.2338212
-0.773171	-0.7370248	-0.0006552	1.93520824	-0.0960883	0.54253902	0.03614613
-0.6272957	-0.6744115	-0.0472777	-0.1996023	-0.3365374	0.86759313	-0.0471157
0.09229543	-0.5660076	0.22603292	3.12829889	-0.9343935	1.61992411	-0.6583031
-0.0593123	-0.1895354	-0.7054681	-0.3315729	0.01123927	-0.6772764	-0.1302232
-0.1833223	-0.0842247	-0.8280645	-0.3377393	-0.037811	-0.6172583	0.09909762
-0.489103	-0.2657549	-0.5693428	-0.3008943	-0.3157449	-0.5346918	0.22334805
-0.5639191	0.0514369	0.28995802	3.98250027	-0.0624878	0.15831817	0.61535602
0.12797718	0.57855372	0.22565222	2.63067973	0.07854875	0.02682404	0.45057654
-0.0399901	1.0207127	0.17686241	-1.1908929	0.92240229	0.96989734	1.0607028
-0.9989905	-0.9815042	-0.4715859	1.70207591	-0.928368	1.10484102	0.01748631
-0.6272915	-0.530716	-0.1697185	-1.9825192	0.21299661	0.370132	0.09657545
0.20903357	0.41608465	-0.5616621	0.05003048	0.33615684	0.13795731	0.20705107
-1.9115747	-1.4417915	-2.2586236	-0.3366379	-0.3048647	0.67693456	0.46978314
0.48855452	0.31908891	-1.6304122	0.0917554	-1.5720068	-1.025321	-0.1694656
-0.2958236	0.11237286	0.05831819	-0.3013927	0.35184368	0.21419603	0.40819649

Supplemental Table 2 Tab 1

-0.248672	-0.088401	0.3940441	0.95702871	0.77904545	-0.5389963	0.16027103
-0.6899614	-0.6845725	-0.1016069	-0.8830212	-0.652828	0.55770701	0.00538889
-1.5117777	-1.1953412	-1.4568467	-1.386512	-0.19939	-0.6319575	0.31643649
-1.1136637	-0.7333549	-0.5887251	2.72495851	-0.5376378	0.15350846	0.38030883
-1.7896173	-1.1166862	-0.3070804	2.74129316	-0.3017775	0.79656987	0.67293103
-0.5118052	0.76240239	-1.6892416	-4.034224	1.72728928	-0.4193126	1.27420762
-1.7906117	-1.7405521	-0.6155687	-2.5172048	-0.0500211	0.69533144	0.0500596
-0.0056094	0.24243187	-1.0417173	-1.561646	0.00044946	-0.1455061	0.24804128
-1.4089691	-1.0996302	-0.6106451	1.57542145	-0.6517605	0.29237845	0.30933882
-0.3393312	-0.3913121	0.1239146	-0.7137637	0.34310851	0.23765188	-0.0519809
-0.2718679	-0.9889367	-0.6905116	-0.0668568	-0.9925324	0.20431506	-0.7170688
-1.2487851	-1.4713018	-0.742331	-0.1689823	-0.7327888	0.20024387	-0.2225167
-0.5941663	-2.1590712	-0.79863	0.77577914	0.07519934	-0.8070182	-1.5649048
-0.0967737	-0.1360457	-0.5485116	1.02478765	0.00397345	-0.0799923	-0.039272
-0.5336336	-0.6133889	-0.461024	-1.1040655	-0.6639008	0.52499746	-0.0797553
-1.9712529	-2.0333498	-1.419089	-4.5059771	1.96758105	2.18213623	-0.0620968
-1.0186866	-0.2202098	-0.9295019	2.09772272	-0.4272824	-0.9914998	0.79847677
-0.2852117	-0.1885816	0.21020663	0.46493794	0.320615	1.40783477	0.09663007
-0.9057717	-0.8192237	-0.4696025	1.33225142	-1.0024398	0.80855632	0.08654801
-0.3743068	-0.7099367	0.05938076	-1.4286611	-0.5629591	0.7774838	-0.3356299
-0.7275049	-1.2519724	-1.1941045	0.66499293	-0.7981763	-0.0968886	-0.5244675
-1.3922208	-1.7437491	-0.9717658	-0.9409497	-0.4699737	0.33113661	-0.3515284
0.36266097	0.28656595	-0.2337508	-0.3514866	-0.1164782	0.62225101	-0.076095
-1.6685243	-1.3987956	-0.3951775	0.66445709	-1.5048743	0.52858189	0.26972873
-0.4534225	-0.5931552	-0.329487	1.49293577	-1.5934143	0.4562371	-0.1397327
-0.6014524	-0.882819	-0.3930845	2.56466852	-0.3399339	1.23133683	-0.2813666
-0.4902172	-0.4128236	-0.722883	-0.8844067	0.77256938	0.3206489	0.07739354
-0.5950162	-0.5558203	-1.9988478	-2.1472299	3.47419542	-1.5564377	0.03919589
0.25478308	0.12864429	0.42125693	0.5842844	0.1455841	0.63464935	-0.1261388

Supplemental Table 2 Tab 1

0.62367494	0.23676565	0.63186585	2.40047155	-0.4444534	-1.103433	-0.3869093
0.68661427	0.32459889	0.69688353	2.39566787	-0.6943396	-1.5186284	-0.3620154
-0.7972076	-0.4329914	-0.5416285	-3.1193301	-0.5104135	0.02228145	0.36421619
0.68007947	0.00157691	-0.4396965	0.63724572	-0.8943518	0.04277484	-0.6785026
-0.0914029	-0.1836516	-0.373831	0.57325555	-0.097343	0.61118878	-0.0922487
0.13202438	0.47049926	-0.2083452	-1.0219163	1.08926057	0.5674969	0.33847488
0.0788965	0.25538751	1.64767225	-0.4362598	-0.3232017	1.03087141	0.17649101
0.26785869	0.22155724	2.96755412	1.14026375	-0.2660469	2.56556107	-0.0463015
-0.8082099	-1.0096808	-0.9217152	0.46074824	-1.339954	-0.1038366	-0.2014709
-0.6430687	-0.4535937	-2.2686687	-5.5789271	2.16883482	-0.216104	0.189475
-1.0514629	-0.8805236	-1.0774739	-4.9841483	1.98653098	-0.0479264	0.17093928
-1.4752924	-1.2211859	-1.2178609	-1.6481954	-2.0248875	0.31103585	0.25410658
-1.9317152	-1.7356163	-0.8047717	1.54589294	-2.1743337	0.62207887	0.19609888
-1.0966458	-0.9889351	-1.1178183	-0.5786825	-1.680674	-1.433398	0.10771079
-0.8619382	-1.9270988	-0.2198746	1.8348915	-2.4378021	1.29913936	-1.0651607
-1.2162722	-0.7217699	-0.4557706	-1.328259	-0.2687458	0.49192325	0.49450231
-0.617289	-0.2856011	-1.0975756	-0.4340712	0.35574256	-0.231494	0.33168785
-0.0624999	-0.21902	0.36790045	0.47645362	0.53100093	0.48824228	-0.1565201
0.16277727	0.09201069	-0.6591048	0.80471169	-0.0524111	0.53850864	-0.0707666
-0.1406997	-0.2869777	-0.9804424	0.71456677	0.11327608	0.15655831	-0.146278
-0.6774427	-0.5511379	-0.6294677	-0.0121896	-1.1892883	-0.4502387	0.12630486
-0.5118044	-0.5428352	-0.4257163	-0.273536	-0.8715438	0.06182947	-0.0310308
-1.8840639	-2.2620673	-0.912122	0.26322248	-1.8731655	0.1945737	-0.3780035
-1.5026692	-1.8723274	-0.8624517	-0.1343096	-1.7117216	0.14216955	-0.3696582
-0.3082685	-0.4786972	-0.149056	0.19102418	-1.3933781	0.79668306	-0.1704287
-0.0714505	0.57790745	0.61908466	1.28980769	0.87642933	0.70779354	0.64935798
0.51056018	-0.2822969	-0.3363473	3.33556864	-1.0122625	0.01467577	-0.7928571
-0.0610427	-0.5032163	-1.5726214	-0.1713571	-1.2219585	0.09841457	-0.4421736
0.30178197	-0.4910406	0.17286118	1.14905388	-0.8278453	0.65690091	-0.7928226

Supplemental Table 2 Tab 1

-0.7214883	-0.9819503	-0.3272847	-0.7901622	-0.8709251	1.21579078	-0.2604619
-0.0969639	-0.4042939	-0.5088213	-2.0016134	0.18709186	-1.1862252	-0.30733
0.2928176	-0.1091747	-0.0839583	1.16305015	0.17059707	0.42233583	-0.4019923
0.04371839	-0.0560062	0.11124164	1.14525012	-0.301188	1.08010404	-0.0997246
-1.4102444	-1.2631953	-0.3403845	-0.4484266	-2.083322	0.62145224	0.1470491
-0.5036648	-0.5861221	-0.874688	0.30653725	-0.7592834	0.79454643	-0.0824574
-0.5997651	-0.6151852	0.14936532	-0.0285673	0.20433351	0.79309458	-0.0154201
0.39029377	0.09921199	-0.7244349	0.74328344	-0.9555679	-0.5320656	-0.2910818
-0.06739	-0.1315149	-0.5744579	0.31404013	-0.4763206	-0.0646163	-0.0641249
-0.763855	-1.4674351	-0.6237852	0.27712066	-1.8057187	-0.7486453	-0.7035802
0.70953378	0.04024056	1.01160657	1.20013675	-0.6560097	2.63013997	-0.6692932
0.4013192	0.54045923	-0.045421	0.30477133	0.30995843	0.27186495	0.13914002
-1.068122	-1.6147013	-0.2377727	2.17869849	-1.0597153	0.6025317	-0.5465793
-0.5254388	-1.2666444	-0.3826052	0.47061744	-1.0103608	1.27830772	-0.7412056
0.29682758	0.06014927	-0.378595	-2.3320988	0.26365768	-0.1235817	-0.2366783
-0.2180647	-0.224289	0.0042819	-2.8008319	1.14726209	1.46520151	-0.0062243
-0.3186911	-0.2295691	-0.135074	-0.5543201	0.04379153	0.99606436	0.08912201
0.28998314	-0.069067	0.26322528	2.69954161	-0.9459341	0.77407467	-0.3590502
0.06690355	0.18172407	-0.1022188	-0.7642298	1.20106705	0.28904723	0.11482052
1.34504579	0.36076834	1.06704743	2.30083082	1.34597618	0.15057282	-0.9842775
0.36263309	-2.5747907	-2.2306232	-0.0313201	0.15739086	-1.0200822	-2.9374238
0.61370955	0.17616217	0.13660149	0.96879004	-0.7212697	-0.6558047	-0.4375474
-1.3668127	-1.0487562	-0.6465731	-1.1966916	-0.5167271	0.11097945	0.31805646
-1.5821954	-1.4492541	-0.9537864	-0.569406	-1.3148618	-0.146979	0.13294127
-1.7000419	-1.7464226	-0.4918079	0.21807895	-1.8406209	-0.1799525	-0.0463807
-0.8090963	-0.9909711	0.08450254	1.61283778	-1.6393052	0.94636121	-0.1818748
-0.214122	0.38032322	-0.3164256	-0.2342561	-0.6667754	-0.23458	0.59444525
-0.2402853	-0.5959228	-0.0738207	3.78383734	-1.5451735	-0.276409	-0.3556376
-1.309179	-0.6024435	0.95749386	1.81314145	-0.8250612	2.25111984	0.7067355

Supplemental Table 2 Tab 1

-0.8711483	-1.1035384	-0.4680054	3.72935241	-0.7790565	0.29567527	-0.2323901
-0.6472482	-1.2303851	0.29707138	3.63991691	-1.8307543	-0.0656661	-0.5831368
-0.2970395	-1.0248205	0.26472913	4.3903195	-1.7283909	-0.0587767	-0.7277809
-1.1534337	-1.8628696	0.38838935	5.6672048	-2.5589542	1.5786329	-0.7094359
-0.263886	-1.2519354	-0.5768108	2.24150214	-1.1744458	-0.3097627	-0.9880494
-0.5979391	-0.7753471	-0.6467467	2.61173318	-1.8250414	-0.3629943	-0.177408
-0.8850682	-0.777481	-0.7999375	2.61714726	-0.9673135	-0.8783377	0.10758724
-0.5052189	-0.3068757	-0.3584186	2.49191351	-0.9639495	0.94509034	0.1983432
-1.6185591	-1.3097879	-0.9544046	-0.1194742	-0.2247905	0.95378767	0.30877111
-0.9799232	-0.8729708	-0.2616023	2.49373409	0.15671118	0.95251179	0.10695244
-0.2426198	-0.3016251	-0.4055651	2.67369331	-0.3397439	0.73167971	-0.0590053
-0.3044717	-0.5175743	-0.2701675	0.32426441	-0.5606798	0.56571253	-0.2131026
-1.04686	-1.1479901	-0.318872	0.1527001	-0.3727262	0.87896222	-0.1011301
-1.2121017	-1.2643437	-0.4361056	2.01471708	-1.4099169	0.70798836	-0.052242
-0.9886006	-0.7638778	-1.1160608	0.39057238	-1.1102431	0.24673937	0.22472281
-1.2330894	-1.3286748	-0.7598447	-1.5862806	-1.3659829	0.48299934	-0.0955855
-0.588305	-0.6575228	-0.4566808	-1.5919073	-0.2212193	0.64624598	-0.0692178
-1.0217153	-1.324113	-0.9088883	-1.2749974	-0.9146884	1.36539699	-0.3023977
-0.0804422	-0.7144066	-0.5044862	-1.8283588	-0.3181769	1.23589688	-0.6339644
-1.2333808	-1.2953714	-0.5367174	0.65048658	-1.1114145	0.41850027	-0.0619907
-0.096776	-0.0688089	-0.4452652	-2.060764	0.60341578	-0.2168647	0.02796715
-0.5826719	-0.7019742	-0.3631769	-1.7744849	0.28347543	-0.9029099	-0.1193023
-1.0326495	-1.0884345	-0.5119408	-0.6057359	-0.8154392	0.05522004	-0.055785
-0.8676304	-0.7631347	-0.7870428	1.74247865	-1.1540374	0.42053725	0.10449573
-0.7966454	-1.388003	-0.0871481	1.56028777	-0.2908681	1.20181346	-0.5913576
-1.9115705	-1.3458602	-0.8129305	0.89681494	-1.5886303	0.89188399	0.56571032
-0.8419284	-0.7288042	-0.4474102	0.57651806	-0.1976422	0.55781542	0.11312424
-0.9077485	-0.7517404	0.02960152	0.03982854	-0.3031286	1.30492921	0.15600807
-0.3222269	-0.1168565	0.26715629	-0.6107228	1.15012416	0.98492263	0.20537038

Supplemental Table 2 Tab 1

-1.0549138	-0.5880569	-0.1940661	-0.972435	-0.7233353	0.37332535	0.46685687
0.83701198	0.46264755	0.15982569	-0.0053431	-0.2941807	0.48939782	-0.3743644
0.63705029	0.47241282	-0.1151175	0.83490428	-0.6574605	0.10991244	-0.1646375
0.88926961	0.46445233	-0.1319923	0.04196305	-0.1061574	0.27439077	-0.4248173
1.11268037	0.59605105	-0.1940571	0.87201606	-0.5379455	-0.0205819	-0.5166293
1.47057188	-0.2884003	-0.3887713	1.67764166	0.14940316	-0.04383	-1.7589722
-0.468769	-0.3468455	-0.1427631	0.66392085	-0.5565974	0.62268022	0.12192344
0.16096902	0.19591984	-0.4069958	1.51636448	0.13671878	0.47840575	0.03495082
-0.7230737	-0.8777111	-0.1512411	0.67178581	-0.0291208	0.76689671	-0.1546374
-0.8012266	-1.0332425	-0.3418797	0.69350641	0.23302413	-0.7391651	-0.232016
-0.7136209	-1.2810748	-0.093309	1.11281669	-0.9335966	-0.2343714	-0.5674539
0.20131564	0.14644788	0.45011743	-1.4070582	0.94222199	1.07907381	-0.0548678
-1.0165956	-0.9806767	0.49760773	1.82644004	0.26939248	1.03490857	0.03591885
-0.1693278	0.04121816	-0.5977967	-1.3348923	0.30294491	1.58319237	0.21054593
-0.0455368	0.67314354	-0.2569017	1.04780789	0.39832061	0.85431549	0.71868039
-1.1304934	-1.0369559	-0.8482096	-0.0960372	-0.9819814	0.61258335	0.09353745
-1.0638469	-0.8683089	-1.0972292	-0.5337235	-1.3248213	0.40022307	0.195538
-0.5286526	-0.3983668	-1.1658809	-1.09772	-0.7519876	-0.1885595	0.13028582
0.1096381	-0.1204927	0.19208923	1.76700325	-0.4043665	-1.1689607	-0.2301308
0.0066247	-0.0460278	0.03868281	0.35145696	0.01336386	-1.0325956	-0.0526525
1.14243075	1.12017299	0.44894397	-1.0674578	1.22371636	0.20447001	-0.0222578
-0.7679815	-0.9001079	-0.3796556	-1.1484213	0.37751692	0.15257171	-0.1321264
-0.0968072	0.11427246	-0.0334686	1.11722677	0.54564318	-0.1329377	0.21107964
0.12558444	-0.6995028	-0.6134063	-0.9609172	0.63548628	1.11500426	-0.8250872
1.48819374	0.61876292	0.3260442	0.67644169	-1.2532101	-0.598253	-0.8694308
1.03229603	-0.4040582	0.06957403	1.92778045	-1.1276583	-0.9844916	-1.4363543
-1.0417004	-0.7989317	-1.1024088	0.40400034	-0.4758681	-0.1787219	0.24276869
-0.6370318	-0.4861438	-0.5810016	2.62411538	0.20250782	0.00039689	0.15088795
-0.6310083	-0.7182519	-0.1690251	3.02321628	0.38986409	-0.5205449	-0.0872435

Supplemental Table 2 Tab 1

-0.6019701	-0.5097067	-0.2632806	1.20269619	1.52458502	0.22262823	0.09226346
-0.9391835	0.18513045	-0.2679623	1.46378292	3.65915425	0.08465897	1.12431391
-0.3766253	-0.5315024	-0.0634983	0.46765901	0.56976614	0.85675868	-0.1548771
-1.2980924	-1.1558037	0.53127812	3.02528586	-0.9098573	0.6075698	0.14228875
-0.2174957	-0.4882224	0.1716973	0.06444829	0.21546836	1.52483224	-0.2707267
-0.9868024	-0.9374606	-0.127691	-0.0095856	-0.394936	1.10262793	0.04934176
-0.5408938	-1.6000106	0.67805413	-1.5509184	-1.3890611	1.00797074	-1.0591168
-1.3635578	-2.0418942	-0.3155434	1.31636655	-1.438377	0.38797799	-0.6783364
-1.0646252	-0.9588752	-0.8605469	-0.2433299	-0.8611996	0.77861473	0.10575002
-0.95425	-1.0263953	-0.5240613	0.24923981	-0.1148986	0.76281385	-0.0721453
-1.0209649	-0.9379258	-0.4326542	1.14366739	-0.1597979	1.30605459	0.08303911
0.1256464	0.01118534	0.29906651	3.2786212	-0.0810187	0.86705759	-0.1144611
0.88564664	0.54220083	-0.2455011	1.21119391	-0.5339039	-1.1148448	-0.3434458
-0.3434427	-0.5993975	0.055038	-0.5292994	-0.3105265	1.14692298	-0.2559548
-1.2591848	-1.1964333	-0.0941376	1.00441493	-0.4084878	1.43006547	0.06275149
-1.1666665	-1.4857354	-0.05737	4.03817286	-3.2554261	0.10307212	-0.3190689
-1.0930233	-1.3728561	-0.0763495	4.17306681	-3.3166184	-0.0138526	-0.2798329
-0.5229605	-1.0858683	0.05355269	3.84388048	-2.8333363	-0.8325557	-0.5629078
-1.3340072	-1.2793303	-0.6748863	-0.8187218	-0.6668289	-0.295417	0.05467691
-0.8483669	-0.8278373	-0.4833618	0.40488483	-0.1386953	0.52455865	0.02052958
-0.3996676	-0.7356956	0.29639988	0.63503213	0.07017802	0.31856281	-0.3360279
-1.4196883	-1.3605441	0.0492296	-1.0451992	-0.739708	0.15398149	0.05914419
-0.4556712	-0.4426384	-0.2093109	0.63764893	-1.5241447	0.68846291	0.01303278
0.09040207	-0.1085194	-0.3496056	0.95251696	-1.6475582	-0.2188228	-0.1989215
-0.5235956	-0.8020917	-0.8875232	2.06140593	-1.0037735	-0.1200005	-0.2784961
-0.5499816	-0.4165575	-1.1531744	-1.0476023	-0.7552531	-0.229557	0.13342407
-1.514906	-1.3514703	-0.9075124	0.92803585	-0.8296813	0.49929403	0.16343573
-0.8005742	-1.1079339	-0.2696748	1.38920164	-0.9689298	0.92417978	-0.3073596
0.1662727	0.0110835	-0.2213146	0.37545061	-0.3573764	-0.5480254	-0.1551892

Supplemental Table 2 Tab 1

-0.9909503	-1.2026444	-0.2467562	-0.6546819	-0.7119177	0.78400923	-0.211694
0.16625966	-0.0629092	0.97492886	1.90157609	-0.1039535	-0.2894042	-0.2291688
-0.2723362	-0.4807597	0.32073283	-1.076708	-0.4473023	-0.1544187	-0.2084235
-0.9858391	-0.7294488	-0.5807365	2.27955564	-0.3416241	0.93274815	0.25639024
-0.6990722	-0.6864772	-0.4577624	0.31318964	0.59963424	0.33152345	0.01259504
-1.319137	-1.0388173	-0.2177217	0.83350486	0.14459828	0.08477903	0.28031967
-0.7214486	-0.6685521	-0.271287	0.55958988	-0.8176289	1.18695341	0.05289655
0.93974105	1.06554155	-1.2032107	-4.5517742	-0.6378747	-0.4152866	0.12580049
-0.3294149	0.01111127	-0.1263103	-0.4507499	0.29622607	-0.3324706	0.34052615
-0.7894806	-0.6257893	-0.9349851	-1.2769052	0.06280288	-0.8141785	0.16369126
0.38690892	-0.6751485	0.4817529	-1.5750158	0.37474777	1.76200456	-1.0620575
1.11525735	0.8942528	0.55624702	-2.5750899	2.33253986	1.81383453	-0.2210046
1.52226135	1.34675485	0.60169012	0.85388824	1.59596461	-0.8088362	-0.1755065
0.61368054	0.74805214	0.5849625	-1.4412116	0.84563602	-1.7796748	0.1343716
-0.0677104	-0.078289	0.02171956	0.12102323	1.09941489	0.1478153	-0.0105785
0.33494571	0.72096539	-0.1360886	1.16081032	0.42302397	-0.6684743	0.38601968
0.47229124	0.54726266	0.17849173	0.21457292	0.93706514	-0.2382423	0.07497142
0.46954635	0.39811611	-0.7147879	1.48066199	-0.4976683	-0.7178647	-0.0714302
-0.5499816	-0.4165575	-1.1492109	-1.044553	-0.7586246	-0.229557	0.13342407
0.85742073	1.16083227	0.87612068	-2.8063515	1.51169537	1.37026824	0.30341154
-1.3328991	-1.1824489	-0.9711516	-0.5784442	-0.9463335	0.28693077	0.15045026
-0.9562922	-0.7665208	-0.5718649	0.33790649	-1.0501534	-0.1196236	0.18977139
-0.15665	-0.6567444	-0.4264368	-2.3066425	-0.0578678	0.87358819	-0.5000944
-0.6958105	-0.7367911	0.32464233	3.13175087	0.27305089	0.93420149	-0.0409806
-0.6493162	-1.0560261	-0.6053123	1.56760294	-1.2019349	0.70914393	-0.4067099
-1.0576192	-1.1242407	-0.2005717	0.44641634	-0.6411498	0.47137079	-0.0666215
-0.8506147	-0.8571703	-1.3282665	0.70779371	2.26630255	-1.1956062	-0.0065556
-0.9218186	-0.3948936	-0.8578037	-0.1662629	-0.5858321	0.65034249	0.52692498
-1.0967678	-0.0884958	0.0821512	-0.8614371	0.71354808	0.10035364	1.00827201

Supplemental Table 2 Tab 1

-1.5767637	-1.3948722	-0.6465899	0.7987487	-0.4108306	0.22748054	0.18189152
-0.5958038	-1.0293996	-0.5650193	1.30511078	-0.8951186	1.15997344	-0.4335958
-0.6090211	-0.4123998	-1.182073	-1.0461418	-0.7683728	-0.3637468	0.19662136
-0.3154237	-0.1815541	-0.7542226	0.0943966	0.3771598	-1.0328798	0.13386959
0.30175349	-0.6757326	-1.5209729	0.2676238	-0.6520686	-0.579027	-0.9774861
0.71057321	0.01145002	0.35381855	1.65023966	-2.3335785	-1.792007	-0.6991232
-0.5254175	-0.392696	-1.1611449	-1.0472407	-0.7545181	-0.226705	0.13272152
0.48785686	0.74801659	-1.0047642	1.45068044	-0.7596143	-0.3266156	0.26015973
-1.170728	-0.1952031	-1.404166	3.32089539	-2.3047487	-0.6124197	0.97552489
-0.3840762	-1.0067873	-0.0142909	0.5497085	-0.2769114	0.25702195	-0.6227111
0.7707166	0.29785396	-0.6232536	1.3703073	-0.4152677	-0.1190836	-0.4728626
-0.3964063	-0.3260928	0.67529956	1.27882638	0.16424988	-0.1365489	0.0703135
0.08390627	0.21974398	0.38516913	2.06053929	0.47319422	0.04238361	0.1358377
0.7106089	0.42611967	-1.0615937	1.51302861	-1.0123148	-0.9553558	-0.2844892
0.42674662	-0.0236494	-0.4373106	0.06856921	-1.3042844	-0.2620095	-0.450396
1.74861529	1.23340717	-0.3384473	-1.3939566	-0.1142304	-1.1270386	-0.5152081
2.05347852	1.42174104	-0.1385215	-0.3423477	0.25073392	-0.7532609	-0.6317375
1.39514661	1.47061696	0.35347426	-1.8090006	0.71477703	0.10375683	0.07547036
0.01869741	-0.0354588	-1.3753118	-0.6692058	-0.094009	0.47978388	-0.0541562
1.29551551	1.42612034	-0.7534173	1.30680813	0.92065657	0.15807835	0.13060483
1.17623493	-0.0545027	-0.5616681	3.9323658	-0.2852824	0.61493393	-1.2307376
3.73614874	2.09855741	1.63349299	2.36113272	0.94928209	-1.3545734	-1.6375913
-0.3706668	0.26070885	-0.6487283	-0.1701639	1.304576	0.08699445	0.63137564
-0.61916	-0.945124	0.18630357	3.20764731	-1.3907902	1.58610735	-0.3259641
0.86240126	0.39940752	0.69125876	4.40689202	-1.4259667	-0.1087812	-0.4629937
0.22188491	-0.2210794	0.93748193	4.65668093	-1.4146359	0.31184195	-0.4429643
-0.0910514	-0.4958726	-0.4704217	0.48652544	-0.482099	0.57024655	-0.4048212
-0.0436565	-0.7665335	0.35341096	-0.5271693	0.18431594	0.40520101	-0.722877
-0.8443712	-0.684009	0.69692045	3.49138726	-1.0927816	1.87424452	0.16036218

Supplemental Table 2 Tab 1

-0.4692875	-0.6993989	-0.0704622	0.21111075	0.45545556	0.48079059	-0.2301114
-0.2974964	-0.4878286	-0.1177618	0.68682892	0.34176527	0.77482177	-0.1903322
0.72659636	0.770428	-0.4467593	1.57479297	0.87157448	0.42660834	0.04383164
-0.5638467	-0.7562588	0.02184439	1.94699124	-0.1558757	1.19729835	-0.192412
-0.8336948	-0.8958176	-0.2177639	1.23537269	-0.4181931	-0.1127906	-0.0621228
-1.07814	-1.0857356	-1.1375781	-0.5245469	-1.3978312	0.17825971	-0.0075956
-0.2154583	0.13238141	-0.4093592	2.12973897	-0.0191999	0.22955329	0.34783969
-0.4731868	-0.5325234	-0.5655344	0.92485642	-0.4351122	0.00452507	-0.0593366
-0.7459175	-0.9234532	0.27661689	2.35868396	-1.7167698	0.55934211	-0.1775358
-1.0700153	-1.0812399	-0.7138396	1.27454254	-0.1902926	0.59558103	-0.0112245
-0.5499816	-0.4165575	-1.1492109	-1.044553	-0.7597467	-0.229557	0.13342407
-0.1648893	-0.0705295	-0.3813571	2.52579885	-0.6408081	0.56407632	0.09435984
0.17001426	0.05063715	-0.1490825	3.00357411	-0.5922287	-0.0004552	-0.1193771
#DIV/0!	#DIV/0!	1.35315529	-0.8081209	-0.0118308	-1.1705576	0.52153712
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-0.8277979	-1.04522	-0.2730008	0.78548172	-0.4932103	0.30968263	-0.2174221
-0.881408	-0.7560473	-0.097262	1.10130484	-0.1898108	0.0810917	0.12536069
1.29831901	0.90887312	1.03923806	0.84506949	1.28790258	0.4050601	-0.3894459
0.41024786	0.21783391	0.11930887	0.12145796	0.14349462	0.78930979	-0.1924139
-0.2895232	0.1809067	0.97485641	1.08924775	0.37768083	0.80138073	0.47042994
-1.1280229	-0.3677652	-0.0765763	0.03360227	-1.422136	1.90529817	0.76025773
-0.1965045	-0.2475404	-0.5463631	-0.3446246	-1.8876471	-0.479712	-0.0510359
-0.884441	-0.7651268	-0.2783494	0.66170691	-0.0910429	0.36614225	0.1193142
-0.47873	-0.3627652	0.41726613	2.0418253	-0.3167646	0.87987211	0.11596484
-0.0253012	-0.1392367	-0.162063	-0.4752914	0.13774635	0.3719342	-0.1139355
-0.8102399	-0.6835864	-0.1686063	-0.6215355	0.26602499	0.36377867	0.12665351
-0.1865737	-0.541079	-0.1015413	-0.3597587	0.20077238	1.26860616	-0.3545053
-0.2958256	-0.3466885	0.00916651	-0.6834127	-0.5279695	1.24150707	-0.0508629
-0.6964069	-0.9753288	-0.2679414	2.35918383	-1.2576742	0.81564208	-0.2789219

Supplemental Table 2 Tab 1

-0.9738557	-0.8140895	-0.9649029	-0.1703164	-0.3813228	0.9565515	0.15976621
-1.3179037	-1.4022354	-0.6656337	-1.0456947	-0.4552519	0.06435962	-0.0843317
-0.8432029	-0.9527616	-0.4204902	3.64791441	-0.6956458	-2.609727	-0.1095588
-1.9615123	-1.7559825	0.73784683	3.5169586	-1.1130901	1.10986459	0.20552981
-0.4480461	-0.0638851	-0.4326689	-0.6620939	1.15644181	-0.2357631	0.38416105
-0.2894304	-0.808332	-0.5139336	-1.4415679	-0.4136371	0.84158672	-0.5189016
-0.9775084	-0.7593963	-0.3691033	-1.9147802	0.12673983	1.24055676	0.21811208
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-1.3235469	-0.9629067	-1.3176222	-0.4528133	-0.7335622	-0.0157866	0.36064019
-0.6759148	-0.7267112	-0.7562617	-0.0180332	-0.1524529	0.5775612	-0.0507964
-0.89429	-0.8448462	-0.8414984	1.28617899	-0.7463725	1.05114696	0.0494438
-1.1492474	-1.3408059	-0.2004823	1.13029346	-0.4650945	1.28554695	-0.1915584
-1.0446975	-1.0991054	-0.7808767	-0.7870076	-0.5496713	-0.4013981	-0.054408
-0.0811818	-0.3694565	-0.646526	-1.2292684	-0.467864	0.54842639	-0.2882747
-0.6777099	-1.0866063	-0.3323781	1.12094795	-1.336117	1.24700296	-0.4088965
-0.5803864	-0.7040242	-0.353779	1.6519175	-0.5454785	1.4148776	-0.1236379
-0.5262089	-0.6654346	-0.3104801	2.43512856	-0.543089	1.00114659	-0.1392257
-0.6982941	-0.9235753	-0.8492908	2.28749443	-1.201289	0.22671077	-0.2252812
-0.9765362	-0.2393927	-0.8714671	0.50150937	-0.371549	0.16082303	0.73714347
-0.4221404	-0.2519856	-1.6644223	1.45797054	-0.7768137	0.38214264	0.17015482
-1.4114046	-1.5934888	-1.465435	-1.4674732	-1.3495329	0.21162634	-0.1820842
-1.1911631	-1.1588251	-0.9399722	-0.1115083	-0.4734095	0.78047351	0.03233795
-1.783678	-1.7603834	-1.9959942	-1.4554987	-0.9779414	-0.2220425	0.02329459
-0.3007059	-0.1302649	-0.2450958	-0.5451003	0.45925662	0.71972681	0.170441
-0.5900261	-1.4695263	-0.8157741	1.44806852	-0.7953766	0.76877595	-0.8795002
0.73776449	1.07380079	-0.2110568	0.67645412	0.32411861	0.73834818	0.3360363
-0.2895066	-0.8367827	-1.6010149	#DIV/0!	-1.2490104	-0.6923262	-0.5472761
-0.5499816	-0.4165575	-1.1492109	-1.044553	-0.7597467	-0.229557	0.13342407

Supplemental Table 2 Tab 1

-1.4963517	-1.3581711	-0.1990985	0.51886212	-1.051826	1.33897588	0.13818066
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-1.9196353	-1.738918	-1.2016412	-0.052505	-2.407468	0.36012498	0.18071726
-0.7884047	-0.642923	-0.4414544	-0.1938637	-0.2737234	0.99343795	0.14548175
0.42476017	0.29848181	-0.5597375	0.70006084	0.30772016	-0.0549279	-0.1262784
-0.9236711	-0.6315514	0.27403736	1.49693193	-0.0219833	0.55325746	0.29211972
-0.3375931	-1.1250237	-0.6496427	0.26680686	-1.4003675	0.08199848	-0.7874307
0.56006873	0.48734797	1.75021977	-0.6908887	1.84474526	1.04632111	-0.0727208
-0.6614922	-0.4535722	0.27719794	1.82964846	0.17713174	0.7742786	0.20791999
-0.6670326	0.01821504	0.48087859	-2.0690658	0.16528167	0.33097058	0.68524766
-0.1986455	0.13089441	-0.3857602	-0.7514788	-0.1305393	1.92707331	0.32953991
-1.1875445	-1.048781	-0.436207	1.21830012	-0.1566195	0.93389572	0.13876357
-0.1533789	0.21749861	-0.5483843	-0.1150629	0.36424369	0.16748865	0.37087754
0.05345569	-0.259005	-0.0809821	1.3430349	0.15949143	0.37530804	-0.3124607
-0.0174284	-0.4909657	-1.3056083	1.02692757	-1.3625429	-0.8278104	-0.4735373
0.52771731	-0.4146469	-1.2538504	1.1488899	-1.5303744	-0.7938205	-0.9423642
0.1880908	0.35439277	0.31972103	-0.5504447	-0.4705815	-0.4716401	0.16630198
-0.6813747	-0.5735877	-1.0090641	-0.2613888	-0.2187379	-0.8195076	0.10778701
0.06210924	-0.4291037	0.9459834	3.46605034	-1.3582321	1.31773343	-0.491213
-0.5886207	-1.008261	-1.2191152	2.28924479	-0.7597816	0.02177261	-0.4196403
-0.6729919	-1.068838	-0.8628987	0.55851821	-1.0530237	0.38626747	-0.3958461
-1.121634	-1.0395284	-1.1155908	2.02722147	-1.5038998	-0.8543064	0.08210563
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-0.7890317	-0.8030035	-0.6465765	-0.0642005	-0.5190688	0.80939858	-0.0139718
0.62849865	0.93134555	0.15951864	-1.2147143	0.42610865	0.92381302	0.3028469
-1.1192895	-1.4167755	-0.9689921	2.32643019	-0.9523206	0.50917768	-0.297486
-1.3901571	-1.5143274	-0.5777497	2.42084225	-0.0464272	0.50299585	-0.1241703
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Supplemental Table 2 Tab 1

-1.2363756	-1.0006291	-0.5086031	1.02682545	-0.5158647	1.03323582	0.23574649
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-1.0061243	-0.8583808	-1.0879321	3.64092673	-1.5992212	-0.244646	0.14774352
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-1.4419264	-1.3869452	-0.5986088	-0.2246195	-1.0223614	0.87765653	0.05498126
-1.2792991	-1.2764027	-0.4421334	1.29395599	-1.6558015	0.08762872	0.00289642
1.19811876	0.62832322	-0.0487346	0.50643097	0.7054025	0.09280264	-0.5697955
0.59358254	0.79959604	-0.4267891	-1.0768967	0.50479916	0.47629413	0.2060135
-0.5450715	-0.8735263	-0.0598742	2.58318694	-2.7399923	0.4077549	-0.3284549
-2.2419728	-1.6690193	-1.7491993	1.99247915	-2.7310509	0.73614384	0.57295346
-0.2176664	-0.5758362	0.23712206	1.57451117	0.06283566	1.25777532	-0.3581698
0.78934926	1.1106516	0.59672595	2.06119168	1.19257299	0.78912936	0.32130234
-1.0536967	-0.7980844	-0.8435888	0.36453261	-0.0566473	0.0699483	0.25561234
-1.8577163	-1.5995862	-0.3587275	2.61170073	-0.733644	0.86454113	0.25813014
-1.2921744	-1.2404443	-0.3870443	0.0691537	-1.3156202	1.35060687	0.05173003
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-0.3597738	-0.2412388	-0.837239	-0.31712	0.95208723	-0.2141042	0.11853501
-0.8691152	-0.676057	-0.9516874	1.31078957	-0.5506117	-0.3312442	0.19305816
-0.5818913	0.31931243	-0.5358777	2.06404273	-0.7220923	-0.8848915	0.90120373
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-0.8864674	-1.1899501	0.39939712	2.75951141	-1.878496	-0.0748642	-0.3034828
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-1.1238717	-1.9189838	-0.8791325	-2.332317	-0.422399	-0.2388855	-0.7951121
-0.4758035	-1.1572896	0.08345859	-1.1837645	-0.4330421	0.67708187	-0.681486
-0.1296059	-0.6708218	0.20263202	-1.0555196	-0.3043574	0.36374838	-0.5412158

Supplemental Table 2 Tab 1

-0.9834077	-0.9260845	-0.2520523	-0.0218128	-0.6517502	0.7251159	0.05732318
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-0.7978622	-1.3004826	-0.9416535	1.33719451	0.07629319	1.30845188	-0.5026205
-0.7616834	-1.5649021	-0.4767624	-0.0008943	-0.66848	-0.0910065	-0.8032187
0.345066	-1.0433556	0.71511598	0.87969087	-1.0334989	0.63428482	-1.3884216
1.03765317	-0.1940976	0.62625071	1.40973156	-0.8739369	0.19302172	-1.2317508
0.98465553	0.01883184	0.17551184	1.9431728	-1.1551868	-0.2459169	-0.9658237
0.43793217	-0.5681811	0.32329467	1.30670576	-0.6557444	0.09661092	-1.0061133
-0.3239676	-0.2352224	-0.1973106	0.36853019	0.44185142	0.1472061	0.08874526
-1.0068457	-0.5933222	-0.0138904	0.20275851	0.02462178	0.91879374	0.41352347
-0.7392782	-0.6196528	-1.9128798	2.1910268	-0.2122039	-1.2745613	0.11962545
-0.3271999	-0.3455996	-1.2480986	-0.7071487	-0.553759	-0.0386326	-0.0183997
-0.0967583	0.15550242	-0.4539379	-1.7462003	0.83862227	-1.1270677	0.25226069
-0.0824941	-0.0178509	-0.5713999	-0.301976	-0.0212004	0.18896291	0.06464318
0.67495188	0.99338445	-0.6465605	0.22458452	1.12625742	-0.0427641	0.31843256
0.7349222	0.93709611	0.00993225	0.11573952	0.65198887	-0.0688356	0.20217391
0.18332135	1.04503853	0.54204725	-5.0211614	0.5903648	0.70224989	0.86171718
0.14189551	1.17851669	0.49669344	-4.9152037	0.63577456	1.37770156	1.03662117
-0.61245	-0.4903858	-0.0385501	-0.6534836	-0.0655971	0.79764654	0.12206427
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-1.0958228	-0.5736218	-0.4244398	-1.5194283	-0.0125589	-0.9790948	0.52220099
-0.5499816	-0.4165575	-1.1531744	-1.0476023	-0.7552531	-0.2288318	0.13342407
-1.1320148	-1.8305192	-0.4365848	1.03534415	-1.3548817	1.0457613	-0.6985044
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-1.1341305	-1.1946712	-0.3870802	0.44844069	-0.4678102	0.80049098	-0.0605407
-0.2992603	-0.1588426	-0.6755371	0.13794321	0.58456093	0.95561361	0.14041772
-0.2273682	0.2121922	1.01143981	1.2830777	-2.044219	1.91119627	0.43956043
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Supplemental Table 2 Tab 1

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-0.2526739	-0.898312	-0.7102197	2.56223301	-1.2001269	-0.0282024	-0.6456381
-0.7344825	-1.1735837	-0.535479	1.26406718	-0.8471662	0.74166373	-0.4391013
-0.5748717	-0.592457	-0.4141051	0.4134932	-0.4172578	0.76987694	-0.0175853
0.01775187	-0.0943647	0.02202398	3.07906831	-1.8582979	-0.3273545	-0.1121165
-0.3198031	-0.5997667	0.1371826	1.09358598	-0.1526399	0.70707291	-0.2799636
-0.4738426	-0.2988653	0.1834968	1.59605195	-0.3017819	0.6504867	0.17497725
-1.2979072	-1.2031197	-0.5485696	1.8983803	-1.2027466	0.33859495	0.09478744
-1.0226253	-0.8493607	-0.3779565	-0.6902598	-0.6741436	0.69323472	0.17326457
-0.2872777	-0.1403508	-0.9360799	0.23168982	-0.8614649	0.08008102	0.1469269
-0.1194845	-0.1988173	-1.1945463	2.11167314	-0.7061538	0.03254395	-0.0793328
-0.5395621	-0.24374	0.16528728	1.34140698	-1.68301	-1.0754798	0.29582209
0.1126776	0.21462026	-0.0936538	-0.6411591	0.46780653	0.62626449	0.10194266
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-1.0811429	-1.0313219	-0.4761305	0.69883972	-0.0438674	0.84659816	0.04982104
-0.2223335	0.11415488	-0.4215106	-1.7611788	1.06411183	-1.1055441	0.33648838
-0.9395911	-0.5379959	-0.1063772	0.35625296	-0.2016033	1.39001965	0.40159518
-1.2404253	-1.1553056	-0.9242752	0.76336627	-0.846688	0.23866053	0.08511969
-0.4575002	-0.2540168	-0.1928615	-1.6289325	0.73848248	1.03825133	0.20348341
0.34880564	0.23349013	0.82472647	-0.6015132	0.46283663	0.81525573	-0.1153155
-0.253905	-0.2973085	-0.1343325	2.97783189	-1.9771717	1.04598746	-0.0434034
-1.3716983	-3.4589871	-1.6110996	-2.6679153	-2.6377549	-1.032852	-2.0872888
-1.43495	-1.7071106	-0.8623179	-1.9070867	-0.7689636	-0.4010218	-0.2721606
2.59178354	2.88092427	2.40889265	0.79202924	4.39259198	-0.4198572	0.28914073
3.01306689	2.99235543	3.00884584	2.64215321	4.30797396	-0.3158783	-0.0207115
0.28361667	0.07675167	0.26791547	0.28280583	1.05163423	0.65257181	-0.206865
0.71859693	1.14234869	1.01041062	0.35143767	-2.1976209	-0.0140341	0.42375176
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Supplemental Table 2 Tab 1

-0.5384642	-1.0537792	-0.553047	1.39398328	-0.7638183	0.5785539	-0.515315
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-0.4083156	-0.3531107	0.10063884	0.59873045	-0.3782808	-0.1776031	0.05520488
-0.6643249	-0.7525733	-0.1866753	-0.5969322	0.2686225	0.92070971	-0.0882484
-0.4358612	-0.4808458	-0.0910696	-0.0317556	0.21153818	1.04053335	-0.0449845
-0.4159608	-0.4613932	0.05563541	0.18097969	0.01283915	0.85665029	-0.0454324
0.29973994	0.14233506	0.17534893	-0.9387029	0.34854584	1.12938092	-0.1574049
0.29559777	-0.4038566	0.81285448	0.99818472	1.65065424	-1.3444712	-0.6994544
-0.6729646	-0.6094723	-0.0957777	0.44588419	-0.7340636	0.53790574	0.06349223
-0.4678625	-0.7061753	-0.61743	1.83744244	-1.0443278	0.5260589	-0.2383129
-0.8917367	-0.6579729	0.06841892	0.93031878	0.19832337	0.74284995	0.23376383
-0.9774763	-0.3349887	-0.3579284	2.4483214	-0.1790272	0.58847693	0.64248759
-0.8102844	-0.5738993	-0.2750188	1.13444869	0.10580135	-0.0310076	0.23638511
-1.0015662	-1.7515764	-0.3665108	2.28745163	-1.0959277	0.8370369	-0.7500102
-1.0045704	-0.6570041	-0.3310539	1.54002766	-0.0101962	1.05430203	0.34756628
0.48365222	-0.0633913	-1.1871425	0.65849031	-0.1701272	-0.5908132	-0.5470435
-0.6563185	-0.2937099	-1.3627644	2.60651987	-0.9555127	-0.4147963	0.36260854
-0.3684106	-0.1438	0.26878751	0.15340149	0.61970064	0.65893533	0.22461067
-0.7539583	-0.6510378	-1.7920256	-0.8122211	-1.032006	-0.2116706	0.10292049
-0.4016102	0.24327217	-0.5440278	-1.6742193	0.21543864	-0.0033852	0.64488234
-0.4777039	-1.480541	-0.2938133	1.70543826	-1.5676581	0.92912742	-1.002837
-0.8987433	-1.2019484	-1.1366609	-0.5459798	0.28555128	1.4440134	-0.303205
-0.5561997	0.17617946	-0.3498152	2.59408803	-0.1326219	2.02286256	0.73237916
0.43572911	0.31918784	0.29555015	3.13024474	0.09835204	-0.4812499	-0.1165413
-0.315725	-0.543785	0.75490752	2.3609874	0.44986932	0.79556605	-0.22806
-0.6724587	-1.0749394	-0.8000105	1.52487082	-0.3506938	-1.1344559	-0.4024807
-1.3536259	-1.1164891	-0.7217529	1.03583025	-1.3649122	0.90546022	0.23713681
-0.5279262	-0.7895795	-0.4005897	0.30650291	0.03878955	0.99413272	-0.2616533
1.46405957	1.49661565	-0.5910446	1.74555398	0.30956746	-0.5987066	0.03255608

Supplemental Table 2 Tab 1

-0.0471734	-0.1632917	0.38739109	0.05799532	-0.2602048	0.50267072	-0.1161183
0.1200492	-0.0828789	0.28413913	-0.6196895	0.67737961	-0.1957823	-0.2029281
-1.1240176	-1.0230752	-1.3473916	-0.5481692	-0.346679	0.49871485	0.10094246
-0.5499816	-0.4165575	-1.1492109	-1.044553	-0.7597467	-0.229557	0.13342407
0.50181378	1.10044576	0.32911974	-0.0590437	1.30854686	0.77745757	0.59863197
-1.5030927	-1.4725808	-0.311747	-0.4127606	-0.6219992	1.03301387	0.03051188
-0.8919563	-0.7240585	-0.4880666	-0.355287	-0.5586993	0.91812113	0.16789774
-0.8499447	-0.7615845	-0.4434295	-0.7421349	-0.7902004	0.95558412	0.08836013
-0.0433232	0.36355412	-0.4936478	0.77604273	-0.1053727	0.65348625	0.40687733
-0.1052982	0.06317489	-0.7322165	1.36207032	-0.2816309	0.77042714	0.16847313
-0.9362996	-0.7306149	-0.0974776	1.00659826	-0.6192876	0.76137638	0.20568467
0.36257008	-0.251708	-0.7719368	1.06511462	-2.0120106	-0.7501461	-0.6142781
-0.0967953	-0.707177	0.07331403	0.13448063	-0.0122663	0.45408111	-0.6103817
-0.9268719	-0.1333228	-0.7185207	0.36499877	-0.8137324	-0.1003728	0.79354912
-0.0128261	-0.1133725	0.01143843	-1.1134152	0.24866628	0.70367424	-0.1005464
-0.5247436	-0.293755	0.34371616	-0.6720105	0.10449045	1.2582156	0.23098859
0.14203162	0.19166337	-0.5061636	1.07451816	-0.9202325	0.93628804	0.04963175
-0.0314957	0.04047603	0.81091029	0.96865919	0.92829698	1.10829824	0.07197176
-0.4480335	-1.0135712	-0.2494856	1.54270166	-0.7867009	1.1296154	-0.5655377
-1.1963933	-1.2713953	-0.6614984	2.58325711	-1.0386645	0.64824924	-0.0750019
-0.8338675	-1.0377997	-0.4300283	1.62408277	-0.920396	1.02988178	-0.2039321
-0.6889211	-1.3108101	-1.4212787	2.69832029	-1.9329684	0.01440763	-0.6218891
-1.1284525	-1.3383793	-0.1831119	0.79539451	0.37863138	0.22036699	-0.2099268
-0.4235866	-0.5227921	0.02853174	1.34685854	-0.3832061	0.78258016	-0.0992055
-1.3191973	-0.9889355	-0.6055221	-0.5633193	-0.2071037	0.30066327	0.33026178
-0.5394791	-0.9119669	0.09890637	2.79176172	-1.5440087	0.80962527	-0.3724878
-1.139937	-1.5739416	-0.7561382	-0.4395904	-0.4349417	0.35892702	-0.4340046
-0.4947538	-0.2315025	-0.1243476	0.30353404	0.10078173	1.11501753	0.26325128
-0.4268477	-0.126356	-0.1440064	1.36089451	-0.4903842	0.69515288	0.30049174

Supplemental Table 2 Tab 1

-0.5683866	-0.6632837	-0.2887311	-1.7436373	-0.5871038	0.15721766	-0.0948971
-0.672342	-0.7132835	-0.390557	2.32002773	-0.1207067	0.40513111	-0.0409415
-0.8337777	-0.594596	-0.1091924	1.12031349	0.11446486	0.95478469	0.23918174
-0.7342031	-0.5738868	-0.429768	0.43027263	-0.5528496	0.75710514	0.16031637
0.3386451	0.25213952	0.32480223	0.95295752	1.01879582	0.49109106	-0.0865056
-0.8740501	-0.6946119	-0.3097211	-0.6101635	-0.5187279	0.85839524	0.17943827
0.52310773	0.19664137	-0.3709501	-0.2209172	1.14301543	1.14986901	-0.3264664
0.2251525	-0.0570754	-0.0789564	-0.2991907	1.28962893	1.30659424	-0.2822279
-1.0780642	-1.4063457	-0.1756524	2.40434847	-0.7114521	1.28010598	-0.3282816
-0.0051805	-0.1144297	0.40206202	1.16396036	0.42157216	0.69136681	-0.1092492
-0.6113923	-0.5382799	-0.6668307	-0.1978424	-0.5043893	0.54995443	0.07311238
-0.771881	-0.8945619	-0.2503808	-3.3612155	-0.0160844	0.4460978	-0.1226809
0.09499019	0.75088498	0.29588429	1.5286195	-0.5589356	1.74674348	0.65589479
0.61452694	1.09683128	0.3504546	1.78172756	-0.4845661	1.96064811	0.48230434
0.21437949	-0.6854355	-0.6065018	0.08829482	1.77799312	2.7872518	-0.899815
-0.7623554	-0.0313427	0.05082376	-0.5306029	1.39577622	0.5030511	0.73101272
-0.0120504	-0.4727837	-0.3738004	0.65533983	0.12337203	0.65743311	-0.4607333
-1.3018248	-1.4214083	-0.743836	2.67845875	-1.1902188	1.41529116	-0.1195835
0.03572439	-0.1868059	-0.9591841	3.41964375	-0.7254861	-0.2182768	-0.2225303
0.74012995	-0.057952	0.39790826	0.48348545	-1.010325	0.90241472	-0.7980819
-0.7252317	-0.8356147	-0.9099779	2.17105173	-1.0610426	0.40539521	-0.110383
-1.0818704	-0.8920393	-0.3943637	2.59187141	-0.8141702	0.70969119	0.18983109
-0.2844298	-0.4450074	0.22427604	1.47809897	0.47365595	0.78831399	-0.1605776
1.22513197	0.74808481	0.97309035	-1.1137503	-0.0764374	0.44153291	-0.4770472
-0.0143112	-0.1953518	-0.5788834	1.30651689	-0.526401	0.45026243	-0.1810405
0.48812038	-0.0544881	-1.0027532	1.22077698	-0.6618313	-0.6984407	-0.5426085
-1.1227699	-0.8576545	-0.9992097	0.87178201	-0.8767089	0.05032647	0.26511543
-0.7815483	-0.803754	-1.6124621	0.71883162	-1.1470022	-0.5355002	-0.0222057
-1.0761936	-0.9833892	-0.2730522	-0.0930573	-0.4367685	0.84351543	0.09280444

Supplemental Table 2 Tab 1

-0.3865214	-0.4641712	0.14958545	-1.6011187	0.33582944	0.75778977	-0.0776498
-0.2593751	-0.1197921	0.06695362	-1.4330667	0.95497648	0.1118883	0.13958296
-1.7146662	-2.0437508	-1.3500839	1.38765289	0.34096968	0.54254796	-0.3290847
0.32360889	-0.1181353	0.50350205	2.59417247	-0.7210209	-0.8705907	-0.4417442
-1.1385735	-1.1395449	-0.6387803	1.76450077	-1.4905727	0.11268086	-0.0009714
-1.7002227	-1.2095192	-1.0485075	2.4708515	-2.3994027	-0.1432507	0.49070348
-0.9655338	-0.5543821	-0.8491489	2.85554826	-0.7161157	-0.001254	0.41115173
-0.9499998	-0.2936894	-0.8578405	3.25696258	-0.5390099	-0.856966	0.65631043
-0.7894913	-0.5560049	-0.9574477	2.71528339	-1.5165292	-0.9399861	0.23348638
0.92200564	1.44413988	1.78531177	0.01986665	0.72467751	0.16036723	0.52213424
-0.0775001	-0.3404319	0.01420519	-0.3289526	0.18883589	0.93971314	-0.2629318
-0.7652747	-0.686332	-0.0976098	2.00770898	0.22221567	0.02051718	0.07894262
-1.4670095	-1.4856144	-1.4771112	1.74253604	-1.838959	0.32438295	-0.018605
-0.406564	-1.3581106	-0.7403378	0.8110409	-1.1816738	0.04790729	-0.9515466
-0.9486596	-1.0829227	-0.5925589	1.0298188	-0.3197371	0.75113318	-0.1342632
-0.9992053	-0.8601896	0.06540725	1.14529468	0.23027756	1.14934589	0.13901567
0.08565536	0.08446814	0.12673913	-1.4219262	0.70820922	0.2888008	-0.0011872
-1.1638538	-1.4831331	-0.9570702	0.53672024	-0.8208807	-0.1748052	-0.3192793
0.07313588	0.88551295	1.09059381	-0.8087882	-0.2050814	-1.1177014	0.81237707
0.57394763	-0.126337	1.28213023	4.08660507	-1.0629641	-0.1785877	-0.7002847
0.84996956	0.1493716	0.99538738	4.22086035	-0.9227535	-0.0506562	-0.700598
0.65829458	-0.2520718	-0.7398149	0.77577092	-0.2346863	-0.4085747	-0.9103663
-0.9519799	-0.8694498	-0.3737484	0.72157691	-0.5020805	0.91030027	0.08253004
0.33298718	0.43149466	0.46417082	-0.1745297	0.68250308	1.40102213	0.09850748
0.69710021	0.32216483	0.06429895	-2.5980007	1.17358981	0.64552589	-0.3749354
-0.0110969	-0.0287391	-0.1336439	-1.1481814	-0.2106932	0.10594782	-0.0176422
0.24718527	0.31068906	0.74940962	-0.3114452	0.87851512	0.8796385	0.06350379
-0.9110276	-0.9562358	-0.3475041	0.77052402	-0.276194	0.7101428	-0.0452082
-0.4407398	-0.4483162	-0.5051506	0.62212263	-0.45739	-0.278791	-0.0075764

Supplemental Table 2 Tab 1

1.09825548	0.9507993	0.38718389	2.87946726	0.04662849	0.41030464	-0.1474562
-0.5107237	-1.266375	0.34516523	1.17579647	-0.2728044	1.73248375	-0.7556513
-0.8862192	-1.0884475	-0.1510517	0.35307529	-0.4273045	0.9916788	-0.2022282
-1.6919167	-1.4456748	-1.1832657	-0.5259459	-1.3844308	-0.0756084	0.24624189
-1.1570465	-0.4910752	-1.056973	0.23878686	-0.4826233	0.28249061	0.66597132
-0.7247702	-0.3759205	-0.3272716	-0.9094759	-0.5192745	0.72412395	0.34884979
-0.6113821	-0.5452389	-0.4504196	1.44878106	-0.693755	0.49815397	0.06614321
0.48817908	0.17337184	-0.1506416	0.77608876	-0.6903344	-0.3162554	-0.3148072
-0.8753204	-0.7090559	0.21538648	0.46087728	0.62826877	1.05275453	0.16626446
0.04462649	-0.0275501	-0.0839564	0.3537559	0.73994209	0.09376881	-0.0721766
-1.4352536	-1.9975605	-2.2850812	-1.0525157	-1.644625	-0.6756588	-0.5623069
0.27357303	0.07976367	-0.0759049	-1.0268478	1.23225222	0.1101185	-0.1938094
-1.3192094	-1.1248887	-0.9288443	0.45136761	-0.9171242	0.43365339	0.19432063
-0.0692957	-0.5193934	-0.6200135	0.19087599	-1.0642381	-0.2999952	-0.4500977
-1.0263832	-1.4647595	-0.9498607	-1.032184	-0.4200094	-0.5007837	-0.4383764
0.01365117	-0.1872114	-0.4489463	-0.2534912	-0.0930638	0.66450989	-0.2008625
-1.3202249	-0.9764138	0.28453355	-0.3413922	-1.3632433	0.90231993	0.34381111
1.4437938	1.19311167	0.25309547	-0.9921722	3.62346169	0.6740895	-0.2506821
0.17630804	0.3839566	1.14056312	2.18441683	-0.2789944	1.05777089	0.20764856
-0.1707821	-0.2610831	0.14645262	0.73318743	0.75659364	0.15273601	-0.0903009
-0.7135007	-0.369464	0.11903561	-0.0265334	0.12268078	0.2443854	0.34403673
-1.1889321	-1.0497062	-1.1292808	0.2275899	-0.7033102	-0.4104805	0.13922597
1.48814521	2.17607379	0.20053556	2.91109119	0.47157244	-0.6449467	0.68792859
0.07307548	1.06998752	0.07779698	1.89162384	0.2739923	-1.6716088	0.99691204
-0.1830195	-0.0236707	-0.9838587	-1.7014537	0.10139337	-0.3999045	0.15934876
-1.5199615	-1.0641776	-1.665852	1.05709756	-1.6191963	-0.134078	0.45578384
-0.9993197	-1.454789	0.16082727	-1.8808451	0.10082485	0.35201886	-0.4554693
-1.3503331	-1.1493562	-1.132404	1.1650538	-0.676956	-0.6795622	0.20097691
-1.0967434	-1.252187	-0.8390798	-0.7157454	-0.311944	-0.8355471	-0.1554436

Supplemental Table 2 Tab 1

0.87978606	0.30487057	0.39698318	2.87358147	-0.4272659	-0.9778271	-0.5749155
-0.3915785	-0.5737186	-0.3653025	0.57457899	-0.037374	-1.384186	-0.1821401
-0.3889954	-0.6229041	-0.5396125	1.31264103	-0.2099888	-0.9073295	-0.2339087
-0.4645709	-0.8083407	-0.8613881	0.13476475	-0.6147438	-1.4213987	-0.3437698
0.43232602	0.33665943	0.14090999	0.60995963	0.66917799	0.19641903	-0.0956666
-0.8072718	-0.7081631	-1.3587409	-0.5318337	-0.12964	-0.0121178	0.09910868
-0.0570675	-0.0432887	0.21599913	1.471234	-0.1927771	-2.0739133	0.01377883
-0.9161802	-0.3932804	0.11896523	0.2328225	0.23166004	-0.2354835	0.52289984
-0.8338632	-0.895867	-1.2711913	3.09643565	-2.9334314	-2.4241597	-0.0620038
-1.0610257	0.01111637	-0.4026198	2.47404682	-5.6070209	0.27315038	1.07214204
0.65048888	0.70627466	-0.5749875	3.16024495	-0.1675167	-0.2773024	0.05578578
1.10911742	0.72159748	1.36649454	-0.2712623	0.93393874	0.1515439	-0.3875199
1.36257008	1.01091503	-0.9419852	1.99866664	-0.8680988	-0.3028767	-0.351655
0.95723275	0.10168008	0.11972506	1.06180255	0.30542073	-0.2647887	-0.8555527
#DIV/0!	#DIV/0!	-0.06311	-0.8083902	0.2514255	-3.3775733	1.25975182
-0.3171839	0.07380669	-0.1204759	2.85399446	-0.1028307	0.47757051	0.39099063
-0.2203941	-0.160147	-1.1870254	-0.9620668	-0.6358855	-0.400263	0.0602471
-0.6461074	-0.1769864	-1.6032179	-0.8089468	-1.3065962	-0.7112797	0.46912094
1.60371646	2.42595116	0.44670261	0.77598885	0.18050686	-2.212398	0.8222347
-1.4776967	-2.4653956	-0.5156367	4.1066818	-2.2544894	0.51202189	-0.9876989
0.34059579	0.33297094	-0.0666716	-2.4138102	1.11321809	-1.0699678	-0.0076249
-0.4566962	-0.2993212	-0.4261571	1.53486245	-0.1032049	-0.6736356	0.15737498
-0.3809483	-0.2721897	-0.2929501	0.97922953	0.38341881	-0.2085783	0.10875858
-0.319172	-0.5738814	-0.4945692	1.13859294	-2.3210235	0.83260007	-0.2547094
2.07328514	0.68918905	0.04533709	2.89179652	-0.842156	-0.0076468	-1.3840961
0.70484362	-0.8858644	-0.3149429	1.74565719	-0.2932933	0.37536665	-1.590708
0.48818267	-0.0544881	-0.5913501	1.19099801	-0.5648825	0.24886192	-0.5426708
-1.111546	-0.8666435	-0.1770943	1.9440363	-1.1037005	0.75972751	0.24490244
-0.78677	-1.0017705	-0.2693569	-0.0993064	-0.7501366	0.79368121	-0.2150005

Supplemental Table 2 Tab 1

0.32780985	0.06899753	-0.2047232	-0.8217032	4.55301474	-0.3496679	-0.2588123
-1.6924757	-1.5131478	-1.014023	0.47757163	-1.289814	0.06558141	0.17932788
0.16188166	0.37366091	-0.7055796	-1.5543736	0.75645003	0.41459236	0.21177924
-1.1675034	-0.9685968	-0.5448974	-1.1783397	-0.8556689	0.70475952	0.19890659
0.3183081	-0.5739049	-1.6789442	0.72128397	-1.2494808	-0.6399147	-0.892213
-0.1494645	0.26698899	0.00546547	-0.8894018	0.87469684	-0.8566827	0.41645347
0.31945043	-0.2982331	-0.3515307	2.18346503	0.92010979	1.83185236	-0.6176835
-0.8934994	-1.3895536	-1.4789133	-0.7762532	-1.7986802	-0.3744202	-0.4960542
-0.2148064	-0.8566987	-1.8226848	-0.0015987	-0.2293622	-0.0682208	-0.6418923
0.06370039	-0.3394366	-0.1160818	-0.418462	0.06012178	-0.1307304	-0.403137
-0.713279	-0.716281	-0.7583884	1.99048273	-0.5741561	0.50513647	-0.0030019
-0.3502218	-0.6394452	-0.3310541	0.90374944	-0.9312142	0.55117444	-0.2892235
-0.5118125	-0.7773851	-0.0656379	-0.0790524	0.12297629	0.48715694	-0.2655726
0.13091257	-0.0702486	0.38840983	0.24469633	-0.160524	0.78933977	-0.2011612
-0.8979926	-1.4304175	-0.6913151	0.34744168	-0.7031078	0.33335166	-0.5324249
-0.6562274	-0.2141579	0.18177915	0.1031656	0.09788983	0.83247695	0.44206952
-0.7817832	-0.6327622	-0.2825314	-0.7120344	-0.1378074	0.63211582	0.14902098
-0.0187832	0.11418892	0.57576485	1.13437232	0.44031598	0.88519739	0.13297212
-1.184971	-1.4124797	0.02594916	3.0010338	-1.7831264	0.98352667	-0.2275087
-1.0274782	-1.3238898	0.16756875	2.38766211	-2.063188	0.40709065	-0.2964116
-0.8483837	-1.1409061	0.14234459	1.79444806	-2.0747561	0.39658205	-0.2925224
-0.4587405	-0.3435676	-0.9398729	-1.1174694	0.31442804	0.17542137	0.11517283
-0.7691092	-0.6574379	-0.0569089	1.4500217	-0.2898659	0.83298677	0.1116713
-0.1287264	0.19845153	-0.3114446	-0.2283908	0.77737198	0.63100159	0.32717792
1.33617758	1.42611563	-0.2444367	0.32846414	0.89050484	0.11080952	0.08993806
-0.4052311	-0.3048286	-0.1057779	-0.1168836	0.30279127	0.92846628	0.10040251
0.56618545	0.73424826	-0.3393815	0.00946345	0.26454736	0.86823367	0.16806281
-0.280257	-0.5265311	-1.0111295	1.18461459	-0.2851333	-0.4440139	-0.2462741
-0.0657302	-1.0531137	-1.7280522	0.15635409	-0.7854731	-0.4288178	-0.9873835

Supplemental Table 2 Tab 1

0.10481918	-0.5741759	-1.5208866	0.65069182	-0.6644119	-0.6154606	-0.6789951
-1.0930824	-0.9888953	-0.2890152	-1.0423793	-0.4601993	0.6722286	0.10418704
-1.0808743	-1.2077854	-0.6465662	1.33064092	-1.5227761	0.75489836	-0.1269112
-0.4122767	-0.7241095	-0.4104101	0.40288754	-0.8219164	0.69804164	-0.3118328
-0.7513821	-0.7483896	-0.2329812	0.1569701	-0.8341983	1.00578402	0.00299256
1.04619573	1.39576426	-0.3163541	2.43920138	1.0996323	0.94512321	0.34956853
0.05870965	-0.0672752	0.02170469	0.99082079	0.60048787	2.04972095	-0.1259848
0.02042813	0.29252934	0.40247174	3.48875723	-1.9069796	-0.7003405	0.27210121
-1.097086	-0.8079319	0.76077314	6.48099926	-2.866296	0.1847982	0.28915409
-0.9764453	-1.2394797	-1.3894054	-1.0548782	-1.3768978	0.04463751	-0.2630344
0.03629775	0.50995466	0.38866728	-1.1721859	0.70188951	0.24935865	0.4736569
-0.8946037	-0.9314127	-0.2576107	-0.3406385	0.26334211	-0.1265971	-0.0368091
0.18704557	-0.1432268	0.45653605	-0.4354455	-1.2897995	0.72265615	-0.3302724
-1.3194244	-1.4745458	-0.6466285	1.36113272	-0.8129238	-0.5369889	-0.1551214
-0.6286416	-0.5500581	-0.1826183	1.19102096	-0.4746162	0.74080431	0.07858349
-0.5013895	-0.2772449	-0.2616425	4.19869335	1.57268047	2.24969678	0.22414466
-0.1084921	0.71983981	-0.0946652	2.02120131	0.6034986	0.76244155	0.82833188
-1.2894571	-0.158822	-0.0616304	4.04930403	-0.3747867	0.60667655	1.13063513
-0.7200594	-0.6687684	1.12229592	0.57867467	-1.8962496	1.04184334	0.051291
-1.2708242	-1.0332579	-0.6605101	4.76429393	-2.2803979	2.69156667	0.23756626
0.93565413	1.85544901	3.91072146	1.33324537	-2.4371592	2.93323675	0.91979488
-0.5078227	-0.4755264	0.18151082	0.75204703	-1.2341991	1.51359051	0.03229631
-0.5080487	-0.8726851	0.41496587	3.28092999	-2.3168539	0.46422161	-0.3646363
0.41347407	-0.1641386	0.20512052	3.80882687	-2.4425545	-0.133361	-0.5776127
-1.6113765	-1.3867972	-0.4374816	1.03707463	-0.2213412	0.50796168	0.22457931
-1.4206557	-1.1905525	-0.7819911	0.28317879	-0.3528698	0.35453593	0.2301032
0.22528123	0.010999	-1.4551601	0.65038218	0.83599149	-0.5766495	-0.2142822
2.15125561	2.57600485	0.27538234	-1.7725787	2.32156656	-1.9722652	0.42474925
-1.0967941	-1.6993511	-0.6466063	2.71438319	-1.2253251	1.2266789	-0.602557

Supplemental Table 2 Tab 1

-0.8336835	-0.9892283	-0.2312793	1.43862432	-0.6637871	-1.3051454	-0.1555448
-0.7754397	0.01008882	-1.6454672	-0.8080679	-0.0130562	-1.5358702	0.78552856
-0.5155411	-1.5748383	-0.817355	2.19264508	-1.0130957	-2.8759295	-1.0592972
-0.2455245	-0.4453847	0.07975047	0.22888451	-0.7030949	0.44832618	-0.1998602
-0.2533908	-0.6337788	0.22646751	0.25958475	-0.7714521	0.66466682	-0.380388
0.05137415	-0.5600455	0.04634027	0.93066116	-0.4148359	0.89084821	-0.6114197
-0.5561896	0.05414361	-0.3597006	0.3113284	-0.2139596	-0.1609913	0.61033319
-0.3033679	-0.6585322	-0.087136	0.20751825	0.39513024	1.52485946	-0.3551644
-0.0867879	-0.1739012	-0.1780998	0.502981	-0.0308842	0.67048312	-0.0871132
-0.8572507	-0.5567399	-0.4953875	0.78930625	0.11867426	1.01678685	0.30051078
-1.0320791	-0.7125809	-0.4929308	0.10664557	0.2308559	0.51270544	0.31949827
-0.4599531	-1.1006209	-0.8866038	1.44202248	-1.3420685	0.69278003	-0.6406678
-1.3922287	-1.29753	-1.4016653	1.29020106	-2.4086992	0.25477576	0.09469868
0.13876135	0.10264292	0.28340702	0.71216681	0.89892185	-0.2791044	-0.0361184
0.15709796	-0.1450467	-0.8271254	1.0211907	-0.1941915	-0.5853432	-0.3021447
-1.0478984	-0.9634872	-0.0776751	2.4564374	-0.5486584	1.13155519	0.08441116
0.665402	0.66033608	-0.0595373	-0.4916313	1.48008156	0.38474029	-0.0050659
-0.0898558	-0.7351571	-0.1651998	0.66854156	-0.9692152	0.60674312	-0.6453013
-1.5227296	-1.7343503	-0.8967118	0.93498409	-1.3341942	0.47136521	-0.2116207
-1.0967751	-1.2843882	-1.339756	0.66238539	-1.7675076	0.06040814	-0.1876131
-0.9243158	-1.0042681	-0.3978837	0.79453419	-0.5029909	0.92060692	-0.0799524
-0.0967764	-0.0822595	-0.2569126	-0.6426951	-0.0252717	1.03985057	0.01451689
2.55985884	2.17242487	-3.5457423	1.55148622	-0.8403044	-1.1960366	-0.387434
1.96364067	1.64309722	-2.5664301	1.19746596	-0.8827415	-0.8138216	-0.3205434
-0.3805072	-0.4039378	-0.6018732	0.04522121	-0.7752527	-0.1366169	-0.0234306
1.22530598	1.7480381	-0.3247678	0.36077368	0.10310185	-0.469866	0.52273212
0.53955309	1.169367	-0.2687567	-0.0065394	0.79315396	0.18213087	0.62981391
-0.8561455	-0.6853253	-0.7741867	0.31104747	-0.4145488	-0.1113767	0.17082025
-0.8481445	-1.1621579	0.32204322	-0.6399409	-0.2111618	0.18212421	-0.3140134

Supplemental Table 2 Tab 1

2.15155839	0.74863559	-1.5395119	-3.3324011	-0.6642762	-2.1542828	-1.4029228
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0.97306214	0.42563497	-1.500854	-1.5586229	-1.28083	-0.4372057	-0.5474272
-2.0057284	-1.671074	-1.4577606	-0.7708317	-1.4975188	-0.6037452	0.33465439
-3.3173408	-1.5735216	-2.5992861	-3.3945805	-1.0120728	-1.6115427	1.74381927
-0.5122062	0.42565862	-1.2313488	-2.0720558	-1.2752349	-1.2773842	0.93786477
#DIV/0!	#DIV/0!	-1.7351207	-2.471119	2.98465945	-0.7140271	1.32932866
-1.0378055	-0.988654	-0.1424821	-0.638977	-0.6128067	-0.7918515	0.04915151
-0.4322463	-0.1060746	-0.6192052	-0.1934578	-0.174863	-0.7864302	0.32617169
0.15118468	-0.4445919	0.02159641	-2.8562568	-0.1794099	-0.6074816	-0.5957766
0.14897058	-0.1181899	-0.1400932	-1.3526703	-0.6547271	0.29261576	-0.2671605
-1.079284	-0.8870307	-0.352838	-4.2942513	-1.0330286	-1.0382338	0.19225324
-0.4661822	-0.3195585	-0.2546068	-3.7365533	-1.2076	-0.6910636	0.14662368
0.06704241	0.01109793	-0.4423238	-2.9658003	-1.2355755	-1.1126173	-0.0559445
-0.5484534	-0.4398611	-0.227359	-3.4578031	-0.8811632	0.02753852	0.10859231
0.06083042	0.4261808	0.60974051	-1.2379013	0.13214104	0.70195477	0.36535038
-0.6693797	-0.7039699	-0.7053664	3.65117065	-1.1015607	0.32629035	-0.0345902
-1.7337589	-1.380902	-0.298665	1.41402544	-0.2753615	-1.6011087	0.35285685
0.58351496	0.10694632	0.44515839	2.15283975	-0.5990328	-0.76748	-0.4765686
-0.6975045	-0.5738605	-0.3955291	0.55352622	-0.8012544	-0.0563872	0.12364405
-0.4096062	-0.1515497	-0.0167669	0.10852446	0.20891705	-0.1622489	0.25805647
-0.6576545	-1.0169087	-0.6371156	1.49260871	-1.0256244	0.75381866	-0.3592542
0.07312062	-0.5748124	-0.7845759	-2.6168698	0.22894825	-1.3306584	-0.647933
-0.1533382	0.3791222	0.00547766	1.09795712	1.03307826	0.4819706	0.53246042
-0.0573073	0.30053094	0.70957482	-4.3354286	0.28153327	-0.04212	0.35783823
0.6735674	1.1861835	-0.4138214	-4.4854439	0.82782965	-0.0253285	0.5126161
-1.2953003	-1.2436903	-0.3990981	-1.1733358	-0.9738085	-0.2090854	0.05161
-1.9710912	-1.4483591	-1.3323961	-0.4986816	-2.4976683	0.60807798	0.52273212

Supplemental Table 2 Tab 1

-1.0964941	0.01098225	-0.1314888	-1.9464378	0.2769449	0.12663162	1.10747637
-0.4723218	-0.2328584	-0.1149776	-2.0333457	0.59883085	0.92143167	0.2394634
-0.734112	0.52560967	-1.4243927	-0.2614411	0.87538651	3.36396046	1.25972167
-0.241909	-0.074022	-0.7283162	-1.8441586	-0.3545454	1.28311565	0.16788696
0.11262886	0.1810589	-0.3246546	-2.0314169	-0.0611907	-0.688807	0.06843005
-0.0967677	0.12665614	-0.8373136	-2.3716113	-0.2985467	-0.3795761	0.22342388
0.9476838	1.47052459	-0.8792438	-0.8596008	-0.8196213	-0.9935322	0.52284079
-0.3418862	-0.0347076	-0.8916376	1.05365904	0.33167695	-0.7387905	0.30717864
0.39595121	0.6976457	-0.5222882	0.4540603	0.84753305	-0.5512214	0.30169448
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2.15155839	0.42624042	-1.3468668	-3.2010737	-0.9053828	-2.2069938	-1.725318
0.40596636	1.42623271	-1.0616234	-1.4868611	-0.1567845	-1.4211255	1.02026635
-1.2180671	-0.8276142	-0.8121979	-3.1275714	-0.3435048	0.79306181	0.39045292
-0.3964859	-1.9890155	-0.6463943	1.19115597	0.2872747	-1.0548252	-1.5925296
1.23715442	0.99091219	0.47077744	-1.1308363	0.77404124	-0.4699682	-0.2462422
-0.707732	-0.2657421	-0.2784835	-0.7724233	-0.3092458	-0.2576521	0.44198987
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-0.3003604	-0.2982278	-0.6648476	-0.1900599	-0.3801078	-0.3496178	0.00213259
-1.2751341	-1.2722325	-1.0864832	-0.760373	-2.1506776	0.26575041	0.0029016
-0.8429699	-1.2743297	-1.1925433	-2.3531912	-1.2264394	-0.3497003	-0.4313599
-0.5959052	-0.4688718	0.04068399	-1.9231841	0.30112589	0.36487545	0.12703337
0.31103573	0.55925229	-0.9173382	-0.2151124	0.27054293	-0.0803221	0.24821655
0.98666332	0.73429903	-0.265486	-0.2525344	0.26026602	-0.3998709	-0.2523643
1.84119152	1.59550471	-0.2792595	-0.1872378	-0.2051303	-1.8231864	-0.2456868
-0.5511064	-0.1443474	-0.6227247	-0.0803965	-1.0759201	0.57842084	0.40675905
-0.8013136	-0.6757393	-0.7106892	-1.6641881	-0.025423	1.05359232	0.12557435
-0.7142779	-0.3368218	-0.8360529	0.05087892	-0.6531989	-0.3726371	0.37745611

Supplemental Table 2 Tab 1

0.00275257	-0.0835548	0.21228008	-0.1934238	0.80578156	-0.0517375	-0.0863074
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-0.1848341	-0.0404441	-0.7520918	0.96479152	-1.0532803	-0.0212798	0.14438991
-0.131071	-0.424141	-1.1238483	-0.1382323	-1.4352075	-0.4699342	-0.2930699
0.31450875	-0.1739502	-0.7682613	1.95179487	-1.3036747	0.34635606	-0.488459
1.36279763	-0.5739448	-0.7985473	-0.9344082	-1.0999328	-1.0105541	-1.9367425
-1.3598388	-0.351433	-1.2655349	-0.0497895	-0.9343181	-0.4898777	1.00840585
0.22554261	-1.5746113	-1.2312235	-0.6392559	-0.3344624	-1.2354695	-1.8001539
2.54704002	2.33304562	-0.4695223	0.51277347	1.64477394	-0.6275931	-0.2139944
-0.6693834	-0.3444107	0.27681915	-0.7070606	0.9083094	0.86611132	0.32497261
0.28791135	-0.3979801	-0.2536351	-1.158964	-0.9133774	-1.1217098	-0.6858914
0.14498387	-0.2597562	-0.360642	0.39268013	-1.2564412	-0.9686436	-0.4047401
0.60340882	0.16288658	-0.0921833	-0.609673	-1.3466453	-2.0834925	-0.4405222
-0.0450567	0.35324181	0.5088869	0.75578113	-0.1284015	0.22580928	0.39829847
-0.9592888	-0.1409431	0.35350909	2.14213582	1.10632387	-1.2914644	0.81834565
-0.5562243	-0.12638	0.76834077	1.99841203	1.09203845	-1.2498382	0.4298443
-0.6311023	-0.0592798	-0.1991643	2.28295931	0.5022955	-0.5574289	0.57182253
-0.3598695	0.36471502	0.50549642	1.99843634	0.88819084	-1.4582948	0.7245845
0.87471312	0.67854552	0.4913025	-0.7231797	-0.0728713	-1.678521	-0.1961676
2.29501495	2.01027959	0.61639037	2.89109189	-0.896652	-0.7917718	-0.2847354
-0.5897557	-0.4294652	-0.3110452	1.59688946	-0.6238036	-0.054932	0.16029051
0.4393909	0.01138809	-0.851552	-2.9501931	-0.8196217	0.02440818	-0.4280028
0.13590926	0.05842239	0.24386854	-1.7418268	-0.3416836	-0.1408834	-0.0774869
1.07347861	0.01155086	0.03080605	-0.2239151	-0.0134344	0.23037416	-1.0619277
0.5537774	0.54675922	0.86227175	3.01378913	-0.0358645	1.09974633	-0.0070182
-0.2223408	-0.2011692	-0.3787074	-0.1308131	0.05906884	-1.2152105	0.02117163
-1.4718142	-1.1675611	-0.3854742	-1.9579105	-0.7975323	0.16645722	0.30425308
-0.0967916	-0.8083996	-0.4267477	-0.4068274	-1.7491481	-0.0776281	-0.711608

Supplemental Table 2 Tab 1

-1.8285696	-1.9836836	-0.7446691	0.84210154	-1.1681307	0.18858683	-0.155114
-0.4269127	-1.2784013	0.0374045	-2.4270497	-0.409557	0.04459598	-0.8514886
-0.0302245	-0.3201069	-0.0916984	-2.4842177	0.5455781	-0.021958	-0.2898824
1.17636954	1.48511594	-0.3835019	-3.7323734	0.26789412	-1.0244995	0.3087464
-0.1248157	-1.0265362	0.14407618	-0.5611273	0.98763144	-1.0068861	-0.9017205
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0.48892321	1.01169416	2.35232769	-2.6168026	0.98816918	-0.7594375	0.52277094
-1.1265226	-0.2937756	0.13478744	-1.6474245	0.33563161	-0.3378623	0.83274701
1.01926392	0.84139068	0.24625158	0.36014574	-0.0121143	-0.7373896	-0.1778732
0.65823507	0.51362006	0.06406647	-1.908648	-0.1541465	-1.4110906	-0.144615
0.41384551	-0.3374286	0.12422278	-2.6590434	-0.7388321	0.23325431	-0.7512741
0.30598003	-0.5023044	0.34771268	-2.7707586	0.02835287	0.18103569	-0.8082844
0.46393205	0.08402507	0.37037336	-6.4959181	0.42168764	-0.6086961	-0.379907
-0.5865064	-0.7773771	-0.4613701	-4.0222253	-1.2406685	-0.1842593	-0.1908707
0.97712602	-0.1264126	0.95472609	1.92555911	-1.2659986	-1.1498222	-1.1035386
1.38656299	0.29152468	1.07076331	2.12411559	-1.1400082	-0.8551543	-1.0950383
0.73550991	-0.5390703	1.52603484	2.31816013	-1.1314203	-1.1058548	-1.2745802
-0.1963068	-1.3432651	-0.0997475	-0.1230739	-1.9576626	0.55052447	-1.1469583
0.21025331	-1.3047239	-0.0638349	-0.5376607	-1.7885677	0.37690624	-1.5149772
0.21035355	-0.0592887	0.45579965	0.40474759	0.8846325	0.48312591	-0.2696423
0.57968032	0.20373037	0.47159602	-2.0382842	0.57518317	0.39840028	-0.37595
-0.6695214	-0.4595006	0.41090775	-1.2971298	-0.4062629	-0.0575685	0.21002084
1.29563793	0.42605516	-0.2315914	-7.4722472	0.9873447	-2.9155064	-0.8695828
0.15113785	-0.5738517	-0.1143374	1.64990364	0.30961984	-0.9995084	-0.7249896
1.2253204	1.59611023	1.61599478	-2.9239353	4.310398	-1.8236122	0.37078983
-1.1377009	-1.1043791	0.1778696	-1.1597093	-0.5263483	0.60737572	0.03332173
0.05616418	-0.0016131	0.67826679	0.77604411	0.00482	0.30768061	-0.0577773
-0.2006037	-0.2843385	0.64868196	0.45441872	0.166735	-0.4584088	-0.0837348

Supplemental Table 2 Tab 1

-0.8744159	-0.5738318	0.13085714	0.99838293	-0.6900016	-1.7921612	0.30058414
1.26580418	-0.1332987	1.0159861	3.80581705	-0.8687205	-2.5610807	-1.3991029
0.48824422	-1.1588963	0.81292697	-0.6833181	0.72501347	-2.43975	-1.6471405
0.43092766	-0.1409486	1.68038738	2.07836946	0.49027342	-1.3399733	-0.5718763
0.69421822	0.4635957	0.98433014	-1.6980434	0.55240038	0.86370279	-0.2306225
1.22495707	1.08906445	0.89399199	-1.1042425	1.84178079	-1.1817327	-0.1358926
0.27268118	-0.0707867	1.40053793	-0.071903	0.61583477	-2.8889891	-0.3434679
0.56635757	0.16338048	-0.4201944	0.19063703	-0.4716905	-2.7677395	-0.4029771
0.36794538	0.48736985	1.68446247	-0.6124662	-1.1217449	-0.8616806	0.11942448
0.24761911	0.46107737	1.12371148	0.57184318	-0.4451961	0.17985584	0.21345826
-0.5273358	-0.3995363	-1.1408768	-1.0432602	-0.7448181	-0.2332131	0.12779944
-0.8519158	-0.6252594	-0.1516744	0.59858847	-0.8934158	-0.0583967	0.22665635
-0.2081952	-0.783335	-0.0122236	0.48322823	-1.0033456	0.23844441	-0.5751398
-0.6679285	-0.9523751	0.03507131	-0.5734541	-0.8904457	0.52341509	-0.2844467
-0.8437919	-0.8513981	0.36699216	-0.5035355	-0.3609426	0.63898994	-0.0076062
-0.8053236	-1.1321487	0.41699513	-0.4081343	-0.2129808	0.95632823	-0.326825
-0.7649437	-1.2223704	0.04031446	-0.308041	0.1274391	0.99955486	-0.4574267
-0.1773548	-0.3695224	0.2423562	0.63162619	0.00633251	-0.558502	-0.1921676
1.29477649	1.26040065	0.92989058	0.73842579	1.09639903	0.35389066	-0.0343758
-0.3261635	-0.9621314	-0.5036927	1.60757693	-0.3210211	1.34836131	-0.6359679
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-0.4229934	-0.4425945	0.25718657	-4.6827946	0.23055043	-0.0042987	-0.0196011
0.1762698	0.16328492	0.93821809	0.77608039	0.47317953	-0.2425484	-0.0129849
0.4880182	-0.2520709	1.06943775	0.60603221	-0.6904529	-1.4308121	-0.7400891
2.18850449	1.42584623	0.65249835	-0.1711825	0.76553475	-1.5971355	-0.7626583
0.08544072	0.0475908	-0.0754296	-2.1221549	0.01199689	-0.7277714	-0.0378499
0.1908371	0.03912261	0.18995211	1.26619475	-0.1379075	-1.1034508	-0.1517145

Supplemental Table 2 Tab 1

0.810229	1.81851337	-1.3966482	-0.8678271	0.19913533	-1.0944677	1.00828437
-0.5185051	-0.3862398	-1.1439196	-1.0434846	-0.7410959	-0.2359139	0.13226537
0.04462114	-0.5320383	-0.17714	0.56957396	0.32713647	-0.6320528	-0.5766595
-0.5185051	-0.3862398	-1.1439196	-1.0434846	-0.7410959	-0.2359139	0.13226537
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-0.3446894	-0.7994437	0.09514092	-1.123093	-0.3737268	0.18900845	-0.4547544
-0.7434165	-1.1872346	0.45673596	-0.4888733	-0.2310611	0.27206851	-0.4438181
-0.7197721	-1.4133988	0.76583976	-1.1264266	0.07406326	-0.7665047	-0.6936267
-1.1305192	-1.9641158	0.00293763	1.85406459	-0.4889986	-0.5220935	-0.8335965
-0.4572657	-0.3673672	0.49553559	1.94617524	0.05720549	-2.0226607	0.08989852
0.28788436	-0.1969061	0.1561784	0.8067167	0.36952796	-0.0616722	-0.4847904
1.19600474	0.23931094	-0.2800828	2.20740923	-0.6943684	-1.3922757	-0.9566938
2.05404303	1.74792016	0.00412383	3.34845663	0.16934086	-1.8712788	-0.3061229
1.50728202	1.06476948	-0.1354875	2.32832933	-0.4129563	-1.7879083	-0.4425125
1.17248329	0.93185154	-0.1631676	3.57030993	-0.9713846	-1.8724477	-0.2406318
1.15118624	1.26743843	-0.7368164	0.92806611	-0.8773346	-1.6074419	0.11625219
-0.9971512	-0.6806883	1.03147336	0.32857423	1.28308135	-2.4199192	0.31646288
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-1.4628797	-1.0057037	0.07339769	-5.7933932	0.76530944	-2.3720693	0.45717596
1.12574214	1.4262162	-0.5793951	-1.6163082	-0.1247412	-0.1480484	0.30047406
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-0.546626	-0.0957517	0.01227073	-1.669653	1.30960593	-2.1448687	0.45087433
0.60775711	0.24110245	1.46514047	2.06557684	0.27012228	-0.2141049	-0.3666547
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Supplemental Table 2 Tab 1

-0.5412884	-0.5308363	-0.6466093	-0.4870135	-0.1560253	-1.019727	0.01045206
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-2.9168817	-2.4633178	-0.4724667	0.64352192	-1.7843955	-1.3383137	0.45356395
-1.1582903	-0.3009088	-0.0754472	0.05341513	-0.9862685	-1.7512552	0.8573815
0.28748581	-0.5927347	0.35343656	-2.2226939	0.28995473	-0.1431477	-0.8802205
0.0842874	-0.2452503	-0.5534422	-0.9976111	-0.1313383	-0.5033668	-0.3295377
-0.036888	-0.0866656	-0.6375251	-0.067828	-0.5849625	-1.3625531	-0.0497776
0.90320514	0.88555596	-0.5447773	0.51268194	-0.2535017	-1.8513473	-0.0176492
0.84179216	1.05053047	-0.8791585	-2.2683944	2.49545031	-2.6156422	0.20873832
0.20020647	0.65439174	-0.2850449	-3.4314618	2.34921583	-0.5466777	0.45418526
0.81010671	1.03347084	-0.1707178	-3.363818	2.37627203	-0.6513608	0.22336412
-0.7342031	-0.6588016	-0.8164749	-0.4737713	-1.1722647	-0.3458986	0.07540141
-0.31913	-0.1428238	-0.4227442	1.11873509	-0.7170019	-0.4425818	0.17630622
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-0.7197721	-1.4133988	0.76583976	-1.1264266	0.07406326	-0.7665047	-0.6936267
-1.1219861	-1.9641158	0.00293763	1.85406459	-0.4889986	-0.5185632	-0.8421297
-0.4006822	-0.3107837	0.51780366	1.91911161	0.05720549	-2.0190493	0.08989852
0.28788436	-0.1969061	0.1561784	0.8067167	0.36952796	-0.059424	-0.4847904
1.19388253	0.23931094	-0.284305	2.20740923	-0.6909713	-1.3922757	-0.9545716
2.04918997	1.74792016	0.00627622	3.36186306	0.16934086	-1.8655931	-0.3012698
1.50728202	1.06476948	-0.1354875	2.32832933	-0.4129563	-1.7879083	-0.4425125
1.17526899	0.93185154	-0.1631676	3.57030993	-0.9713846	-1.866957	-0.2434175
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Supplemental Table 2 Tab 1

-1.4628797	-1.0057037	0.07339769	-5.7933932	0.76530944	-2.3720693	0.45717596
1.12574214	1.4262162	-0.5793951	-1.6048245	-0.1247412	-0.1845679	0.30047406
-1.35998	-0.8366993	-1.2309687	-5.5547579	1.79525416	-3.5994779	0.52328065
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-0.546626	-0.0957517	0.01227073	-1.708133	1.29143675	-2.1488212	0.45087433
0.41663167	0.02652185	1.48630865	2.06557684	0.27653142	-0.1926356	-0.3901098
-0.7517926	-0.8562505	-0.6713419	0.19447389	-0.554556	-1.1063865	-0.104458
-0.8689896	-0.8675851	-0.8243498	-1.4745122	-0.2346936	-1.3189717	0.00140451
-1.0240227	-2.1098922	-1.2745903	2.74573354	-1.9556472	0.09888543	-1.0858695
-0.1248077	0.2175684	-0.4628722	-0.4129709	0.14813869	-1.7248014	0.34237612
-2.0855954	-1.6912179	-0.8803669	1.91771108	-1.4406661	-1.3889732	0.39437747
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0.6932637	1.33517209	0.8039555	0.56217714	1.39035704	0.70332958	0.64190838
0.22508382	-0.1588809	-0.9684672	0.45411974	-0.5971693	0.18213892	-0.3839647
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-0.1618755	0.46794823	0.44089689	-0.1612332	0.07386812	1.03640448	0.62982374
-0.5117782	-0.5738148	#DIV/0!	#DIV/0!	#NUM!	-1.9293722	-0.0620366
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-0.0461785	-0.1333245	-0.0616371	-1.1959873	-0.5972533	0.48114305	-0.0871461
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Supplemental Table 2 Tab 1

-0.7341962	-1.573868	-0.4539344	1.01703497	-0.1351316	0.54548441	-0.8396718
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-0.2148294	-0.4936966	-0.003492	0.05979501	-0.7019443	0.8024191	-0.2788672
-0.9268934	-0.4039675	-0.7985257	-0.7475445	-0.5648061	0.17859846	0.52292589
-1.0966912	0.74802312	#NUM!	-0.2241755	1.98785778	-3.2771117	1.84471432
-0.3311886	0.49653002	0.83898536	0.36094772	-0.2533256	1.03905881	0.82771861
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1.86404229	1.57295723	0.04676862	-0.3235028	-0.393372	0.01365073	-0.2910851
-0.1707711	-0.5738715	-0.3055698	-1.3939388	-1.2602055	-0.5355556	-0.4031004
-1.4447277	-0.2937743	-0.7934418	-0.5974336	0.51822476	0.36012849	1.15095335
1.63117019	0.88560301	-0.5900183	0.59543728	0.12972992	0.95387426	-0.7455672
0.56617333	0.88553896	-0.5851766	0.19104789	0.40275704	0.77104786	0.31936563
-1.179213	-1.5738486	-0.7245797	0.77613255	-2.7126385	0.89683527	-0.3946356
0.54064291	0.71563659	-1.5940512	0.23833469	-0.2510619	1.40229644	0.17499368
-0.4268999	0.01109276	-0.4143928	0.8190772	-0.7777966	0.57125752	0.43799262
0.15117491	0.33300142	-1.0615939	0.36094039	-0.7491785	1.0247943	0.18182651
-0.0768747	0.16309902	-1.8915708	-2.649333	-0.2483428	-0.8625736	0.23997371
1.07326965	0.42632718	#DIV/0!	0.19109251	2.57229204	0.81018348	-0.6469425
-0.1345762	-0.0568042	0.33296719	-1.9438744	1.44962268	0.8605175	0.07777201
0.07316473	1.47053261	-1.0250826	-0.5288348	0.27311635	0.93603455	1.39736788
-0.6981939	-0.2783925	-0.4621182	0.41342696	-0.2049369	0.16504943	0.41980137
1.07309613	2.01105743	0.83885935	-0.8088938	0.90528538	0.87798335	0.9379613
0.46377973	1.06955105	2.30875479	0.03118559	0.17790408	-0.2933117	0.60577133
-0.9017599	-0.9148997	-0.9514194	-0.9749511	-0.4469953	0.11501085	-0.0131397
-0.0264319	0.74804064	0.61645726	0.36094377	-0.4647882	0.98947484	0.77447252
-0.7342126	-1.5739332	-0.8690385	1.77579856	0.22874482	0.40452255	-0.8397206
0.44888205	0.26635099	-1.7594654	1.0561325	-0.7965507	0.25758905	-0.1825311
-0.26024	-0.0593131	-0.6840485	1.19117115	-0.5716998	0.12793082	0.20092691

Supplemental Table 2 Tab 1

-0.0768747	0.16309902	-1.8915708	-2.649333	-0.2483428	-0.8625736	0.23997371
-1.6816991	-2.5739486	0.35317903	#DIV/0!	0.18037835	-0.6626468	-0.8922495
#DIV/0!	#DIV/0!	0.76833521	1.77604784	-0.3907491	0.6675568	0.72937676
-2.0969754	#NUM!	#NUM!	-1.3934227	#DIV/0!	-1.0549242	#NUM!
0.2735182	-0.1784325	-1.7501908	-0.8258489	-0.5552495	-0.8646854	-0.4519507
-1.1996723	-0.1239713	1.04321505	1.94824644	-0.2463828	1.67330521	1.07570103
1.07840268	0.84249072	0.79173058	0.02374507	0.52362271	0.73344198	-0.235912
#DIV/0!	#DIV/0!	-0.6465771	-2.1311668	0.50235696	0.90856787	-1.7987562
1.49908812	1.28607376	0.64209179	-0.302759	0.50707664	0.13290138	-0.2130144
-0.0133602	0.21371723	-0.9252049	-2.1166282	1.11701292	0.1355146	0.22707738
0.73381366	1.31810216	1.98256295	0.1948202	0.71037454	0.28714979	0.58428851
#DIV/0!	#DIV/0!	-1.6468548	-2.3941542	-0.0122696	-1.2773264	-0.4772996
Reference vs	Reference vs	pH 1 hour vs	NaCl 1hour v	CO2 1 hour v	Temperature	light 1 hour vs light 24 hours
1061	1053	573	736	784	356	100
130	137	84	1129	187	358	71
52	65	53	292	160	90	5
26	21	21	436	43	22	2

Supplemental Table 2 Tab 1

light.1.hour.vs.light.24.hours
0
0
0
1
1
3
2
0
1
2
2
17
0

1
0
0
1
9
3
0
1
30
1.00E+00
3.31E-01
1.00E+00
8.19E-01
1.00E+00
1.00E+00
1.00E+00
1.00E+00
1.00E+00
1.00E+00
1.00E+00
5.52E-07
1.00E+00
1.00E+00
3.31E-01
1.00E+00
2.14E-01
4.46E-01
1.00E+00
1.00E+00

1.00E+00
2.83E-01

light.1.hour.vs.light.24.hours
0
8
2
1
1
3
1
0
1
1
22
0
2
1
2
1
8
3
2
2
0
42
1.00E+00
3.32E-01

4.93E-01
3.32E-01
1.00E+00
1.00E+00
4.93E-01
5.59E-01
4.93E-01
4.93E-01
2.86E-07
1.08E-01
4.93E-01
5.59E-01
5.49E-01
1.00E+00
1.00E+00
3.32E-01
4.93E-01
8.69E-01
5.59E-01
1.08E-01

Distribution of COG functions in up regulated genes (logR=

COG.function	Frequency	Reference.vs.pH.1.hour	Reference.vs.pH.24.hours	Reference.vs.NaCl.1hour	Reference.vs.NaCl.24.hours	Reference.vs.CO2.1.hour	Reference.vs.CO2.24.hours	Reference.vs.Temperature.1.hour	Reference.vs.Temperature.24.hours
B - Chromati	1	0	0	0	0	0	0	0	0
C - Energy pr	159	1	0	11	3	1	4	3	5
D - Cell cycle	37	0	0	3	0	0	0	1	0
E - Amino aci	180	0	0	4	0	0	0	0	0
F - Nucleotid	66	0	0	2	0	0	1	0	0
G - Carbohyd	122	0	0	8	3	0	1	0	3
H - Coenzym	138	0	0	7	0	0	3	7	3
I - Lipid trans	59	0	0	1	0	0	0	2	2
J - Translatio	153	26	0	22	0	0	2	5	1
K - Transcript	134	1	0	15	0	0	0	2	0
L - Replicatio	211	3	0	12	2	1	2	34	5
M - Cell wall/	183	1	0	4	2	0	1	6	5
N - Cell motil	37	0	0	1	0	0	1	0	0
O - Posttrans	124	4	0	9	2	0	3	4	4

Supplemental Table 2 Tab 2

P - Inorganic	166	1	3	14	0	0	5	4	7
Q - Secondar	44	0	0	2	1	0	0	1	3
R - General f	342	1	0	30	2	1	4	16	13
S - Function u	295	2	0	15	2	0	2	15	8
T - Signal tra	208	1	0	10	0	0	2	4	4
U - Intracellu	60	0	0	6	0	0	1	0	0
V - Defense r	53	2	0	3	0	0	0	2	3
unclassified	1149	27	6	74	12	11	28	108	55
B - Chromati	1	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
C - Energy pr	159	1.00E+00	1.00E+00	1.00E+00	8.17E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00
D - Cell cycle	37	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
E - Amino aci	180	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
F - Nucleotid	66	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
G - Carbohyd	122	1.00E+00	1.00E+00	1.00E+00	8.17E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00
H - Coenzym	138	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
I - Lipid trans	59	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
J - Translatio	153	1.62E-18	1.00E+00	5.71E-03	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K - Transcript	134	1.00E+00	1.00E+00	2.68E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
L - Replicatio	211	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	4.89E-08	1.00E+00
M - Cell wall/	183	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
N - Cell motil	37	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
O - Posttrans	124	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
P - Inorganic	166	1.00E+00	1.14E-01	8.27E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
Q - Secondar	44	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
R - General f	342	1.00E+00	1.00E+00	3.50E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
S - Function u	295	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
T - Signal tra	208	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
U - Intracellu	60	1.00E+00	1.00E+00	8.27E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
V - Defense r	53	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00

Supplemental Table 2 Tab 2

unclassified	1149	6.47E-01	2.46E-01	1.00E+00	8.17E-01	4.19E-03	6.81E-02	3.94E-10	2.12E-03

Distribution of COG functions in down regulated genes (logl

COG.function	Frequency	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.
B - Chromati	1	0	0	0	0	0	0	0	0
C - Energy pr	159	1	0	40	0	0	18	1	1
D - Cell cycle	37	0	0	6	0	0	5	0	0
E - Amino aci	180	0	0	32	1	0	11	0	1
F - Nucleotid	66	1	0	11	0	0	4	0	0
G - Carbohyd	122	0	0	30	1	0	13	0	0
H - Coenzym	138	0	0	20	0	0	5	0	0
I - Lipid trans	59	0	0	18	0	0	4	0	0
J - Translatio	153	0	0	12	1	0	4	1	1
K - Transcript	134	2	3	18	2	0	5	2	2
L - Replicatio	211	0	0	19	0	0	1	0	0
M - Cell wall/	183	1	1	50	1	1	6	1	1
N - Cell motil	37	0	0	7	0	0	0	0	0
O - Posttrans	124	1	0	14	0	0	4	0	1
P - Inorganic	166	6	3	25	2	1	19	0	2
Q - Secondar	44	0	0	13	0	0	3	0	0
R - General f	342	3	1	45	3	0	12	0	0
S - Function u	295	3	4	56	3	3	7	3	2
T - Signal tra	208	6	4	36	5	0	13	2	4
U - Intracellu	60	0	0	10	0	0	0	0	0
V - Defense r	53	0	0	7	0	0	1	0	0
unclassified	1149	11	10	254	17	2	52	8	6
B - Chromati	1	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
C - Energy pr	159	1.00E+00	1.00E+00	1.07E-01	1.00E+00	1.00E+00	5.08E-03	1.00E+00	1.00E+00
D - Cell cycle	37	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.62E-01	1.00E+00	1.00E+00

Supplemental Table 2 Tab 2

E - Amino aci	180	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	8.73E-01	1.00E+00	1.00E+00
F - Nucleotid	66	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.45E-01	1.00E+00	1.00E+00
G - Carbohyd	122	1.00E+00	1.00E+00	1.90E-01	1.00E+00	1.00E+00	3.59E-02	1.00E+00	1.00E+00
H - Coenzym	138	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
I - Lipid trans	59	1.00E+00	1.00E+00	1.07E-01	1.00E+00	1.00E+00	9.45E-01	1.00E+00	1.00E+00
J - Translatio	153	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K - Transcript	134	1.00E+00	6.29E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
L - Replicatio	211	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
M - Cell wall/	183	1.00E+00	1.00E+00	1.76E-02	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
N - Cell motil	37	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
O - Posttrans	124	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
P - Inorganic	166	6.76E-02	6.97E-01	1.00E+00	1.00E+00	1.00E+00	5.08E-03	1.00E+00	1.00E+00
Q - Secondar	44	1.00E+00	1.00E+00	1.90E-01	1.00E+00	1.00E+00	9.45E-01	1.00E+00	1.00E+00
R - General f	342	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
S - Function u	295	1.00E+00	6.98E-01	1.00E+00	1.00E+00	2.58E-01	1.00E+00	1.00E+00	1.00E+00
T - Signal tra	208	1.02E-01	6.29E-01	1.00E+00	4.34E-01	1.00E+00	8.39E-01	1.00E+00	4.97E-01
U - Intracellu	60	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
V - Defense r	53	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
unclassified	1149	1.00E+00	9.03E-01	2.18E-03	3.73E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00

Supplemental Table 2 Tab 2

=2)

Reference.vs.light.1.hour	Reference.vs.light.24.hours	pH.1.hour.vs.pH.24.hours	NaCl.1hour.vs.NaCl.24.hours	CO2.1.hour.vs.CO2.24.hours	Temperature.1.hour.vs.Temperature.24.hours	light.1.hour.vs.light.24.hours	COG.function
0	0	0	0	0	0	0	B - Chromati
0	0	1	39	4	2	0	C - Energy pr
0	0	0	4	0	0	0	D - Cell cycle
0	0	0	14	0	0	0	E - Amino aci
0	0	1	5	1	0	0	F - Nucleotid
0	0	0	25	1	1	0	G - Carbohyc
0	0	1	7	3	0	0	H - Coenzym
0	0	1	12	0	0	0	I - Lipid trans
0	0	0	4	2	0	0	J - Translatio
0	0	0	9	0	0	0	K - Transcript
1	2	0	12	0	0	1	L - Replicatio
0	0	0	23	1	0	0	M - Cell wall/
0	0	0	6	1	0	0	N - Cell motil
2	2	1	12	2	1	0	O - Posttrans

0	0	7	19	5	1	0	P - Inorganic
0	0	0	6	0	1	0	Q - Secondar
1	0	1	26	6	1	0	R - General f
1	1	0	31	2	3	0	S - Function u
0	1	0	21	1	0	0	T - Signal tra
0	0	0	6	1	0	0	U - Intracellu
0	0	0	6	0	0	0	V - Defense r
21	15	8	178	19	12	1	unclassified
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	B - Chromati
1.00E+00	1.00E+00	1.00E+00	6.39E-05	9.94E-01	1.00E+00	1.00E+00	C - Energy pr
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	D - Cell cycle
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	E - Amino aci
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	F - Nucleotid
1.00E+00	1.00E+00	1.00E+00	2.79E-02	1.00E+00	1.00E+00	1.00E+00	G - Carbohyd
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	H - Coenzym
1.00E+00	1.00E+00	1.00E+00	2.25E-01	1.00E+00	1.00E+00	1.00E+00	I - Lipid trans
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	J - Translatio
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	K - Transcript
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	L - Replicatio
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	M - Cell wall/
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	N - Cell motil
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	O - Posttrans
1.00E+00	1.00E+00	3.33E-04	1.00E+00	9.94E-01	1.00E+00	1.00E+00	P - Inorganic
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	Q - Secondar
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	R - General f
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	S - Function u
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	T - Signal tra
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	U - Intracellu
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	V - Defense r

Supplemental Table 2 Tab 2

1.62E-06	1.69E-03	1.00E+00	6.39E-05	9.94E-01	2.49E-01	1.00E+00	unclassified

R=2)

Reference.vs.	Reference.vs.	pH.1.hour.vs.	NaCl.1hour.v	CO2.1.hour.v	Temperature	light.1.hour.vs.light.24.hours	COG.function
0	0	0	0	0	0	0	B - Chromati
8	9	4	10	16	0	0	C - Energy pr
1	1	0	2	2	0	0	D - Cell cycle
2	3	0	9	7	1	0	E - Amino aci
1	3	1	2	4	0	0	F - Nucleotid
3	6	1	8	14	0	0	G - Carbohyc
1	1	0	12	8	2	0	H - Coenzym
1	2	0	2	3	0	0	I - Lipid trans
3	1	27	30	3	20	0	J - Translatio
2	4	2	20	2	2	1	K - Transcript
0	0	0	14	2	6	0	L - Replicatio
6	5	0	6	4	1	0	M - Cell wall/
0	0	0	0	0	0	1	N - Cell motil
6	1	0	10	4	0	0	O - Posttrans
4	3	6	15	17	5	0	P - Inorganic
3	3	0	2	3	0	0	Q - Secondar
2	6	2	33	10	4	0	R - General f
6	4	3	17	6	5	0	S - Function u
4	5	0	11	8	0	0	T - Signal tra
0	0	2	6	0	1	1	U - Intracellu
0	1	0	5	0	0	0	V - Defense r
6	14	7	87	52	45	3	unclassified
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	B - Chromati
5.13E-02	4.93E-02	1.00E+00	1.00E+00	6.55E-03	1.00E+00	1.00E+00	C - Energy pr
9.48E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	D - Cell cycle

Supplemental Table 2 Tab 2

1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	E - Amino aci
1.00E+00	6.60E-01	1.00E+00	1.00E+00	9.47E-01	1.00E+00	1.00E+00	F - Nucleotid
8.86E-01	2.59E-01	1.00E+00	1.00E+00	5.59E-03	1.00E+00	1.00E+00	G - Carbohyd
1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.47E-01	1.00E+00	1.00E+00	H - Coenzym
1.00E+00	9.20E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	I - Lipid trans
9.48E-01	1.00E+00	3.04E-23	2.12E-05	1.00E+00	3.23E-09	1.00E+00	J - Translatio
1.00E+00	8.96E-01	1.00E+00	2.96E-02	1.00E+00	1.00E+00	1.00E+00	K - Transcript
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	L - Replicatio
3.04E-01	8.96E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	M - Cell wall/
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.73E-01	N - Cell motil
1.12E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	O - Posttrans
8.86E-01	1.00E+00	3.01E-01	1.00E+00	5.59E-03	1.00E+00	1.00E+00	P - Inorganic
2.03E-01	3.37E-01	1.00E+00	1.00E+00	9.47E-01	1.00E+00	1.00E+00	Q - Secondar
1.00E+00	1.00E+00	1.00E+00	6.95E-01	1.00E+00	1.00E+00	1.00E+00	R - General f
8.86E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	S - Function u
9.48E-01	9.20E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	T - Signal tra
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.73E-01	U - Intracellu
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	V - Defense r
1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.47E-01	5.25E-04	1.00E+00	unclassified

Distribution of COG functions in up regulated genes (logR=1)

Frequency	Reference.vs.pH.1.hour	Reference.vs.pH.24.hours	Reference.vs.NaCl.1hour	Reference.vs.NaCl.24.hours	Reference.vs.CO2.1.hour	Reference.vs.CO2.24.hours	Reference.vs.Temperature.1.hour	Reference.vs.Temperature.24.hours	Reference.vs.light.1.hour
1	0	0	0	0	0	0	0	0	0
159	8	0	21	11	3	11	16	23	3
37	0	0	4	0	0	0	2	3	2
180	3	0	15	0	0	1	10	17	0
66	4	0	3	1	0	1	7	10	1
122	3	0	14	9	0	1	13	19	0
138	9	1	24	3	2	5	26	21	1
59	0	0	5	1	0	1	7	14	0
153	49	1	42	3	2	3	35	9	0
134	8	1	26	0	1	2	17	14	2
211	31	9	50	9	10	10	115	77	9
183	10	1	12	4	2	7	25	30	1
37	0	1	2	0	0	3	0	4	3
124	13	3	23	4	7	5	19	29	3

166	12	8	34	13	2	11	38	32	1
44	0	0	3	2	1	1	5	9	0
342	14	5	62	11	8	18	67	86	9
295	18	3	43	9	7	11	49	56	7
208	7	3	23	3	2	9	28	39	1
60	4	1	9	1	0	3	1	10	3
53	3	1	8	2	2	2	8	9	2
1149	114	74	184	64	65	91	315	296	88
1	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
159	1.00E+00	1.00E+00	1.00E+00	2.34E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
37	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
180	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
66	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
122	1.00E+00	1.00E+00	1.00E+00	2.34E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
138	1.00E+00	1.00E+00	8.19E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
59	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
153	1.30E-17	1.00E+00	1.72E-03	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
134	1.00E+00	1.00E+00	5.51E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
211	4.79E-03	1.00E+00	9.47E-03	1.00E+00	6.20E-01	1.00E+00	4.98E-28	6.32E-07	1.00E+00
183	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
37	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
124	9.81E-01	1.00E+00	7.33E-01	1.00E+00	6.20E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00
166	1.00E+00	1.00E+00	3.46E-01	1.12E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
44	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
342	1.00E+00	1.00E+00	5.06E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.38E-01	1.00E+00
295	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
208	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
60	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
53	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00

Supplemental Table 2 Tab 2

1149	1.38E-02	7.34E-15	8.19E-01	5.75E-03	7.96E-09	3.25E-06	7.97E-11	2.48E-06	7.43E-17

Distribution of COG functions in down regulated genes (logR=1)

Frequency	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.	Reference.vs.
1	0	0	0	0	0	0	0	0	0
159	8	32	80	10	1	60	6	3	67
37	0	10	15	6	0	13	0	0	16
180	5	27	88	26	1	62	5	8	86
66	1	13	31	7	0	33	1	0	36
122	12	23	62	16	0	52	8	2	57
138	3	24	54	15	1	48	3	2	57
59	5	14	30	8	0	28	0	0	32
153	1	19	31	32	0	49	4	22	93
134	13	20	40	20	3	27	6	4	36
211	8	9	42	15	1	18	5	7	23
183	4	20	101	24	1	63	9	2	81
37	0	4	20	3	0	3	4	0	4
124	8	9	38	6	1	21	5	1	33
166	16	17	65	15	2	54	8	9	56
44	1	8	23	6	0	21	0	0	19
342	26	44	128	40	6	77	11	7	94
295	15	30	129	25	5	53	16	4	66
208	17	24	88	34	5	40	10	6	35
60	1	6	24	6	0	11	4	1	16
53	4	8	20	4	0	7	2	0	12
1149	89	119	487	143	24	253	63	44	224
1	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
159	1.00E+00	5.66E-02	7.69E-02	1.00E+00	1.00E+00	1.54E-03	1.00E+00	1.00E+00	7.75E-04
37	1.00E+00	8.15E-02	9.87E-01	9.16E-01	1.00E+00	2.38E-01	1.00E+00	1.00E+00	1.03E-01

180	1.00E+00	4.47E-01	7.69E-02	8.43E-01	1.00E+00	1.03E-02	1.00E+00	1.00E+00	5.58E-07
66	1.00E+00	1.97E-01	3.94E-01	1.00E+00	1.00E+00	1.87E-04	1.00E+00	1.00E+00	6.52E-05
122	3.46E-01	1.16E-01	7.69E-02	9.16E-01	1.00E+00	1.87E-04	1.00E+00	1.00E+00	1.01E-04
138	1.00E+00	1.97E-01	9.87E-01	1.00E+00	1.00E+00	2.05E-02	1.00E+00	1.00E+00	3.49E-03
59	8.92E-01	8.15E-02	2.47E-01	9.16E-01	1.00E+00	1.30E-03	1.00E+00	1.00E+00	1.55E-04
153	1.00E+00	9.37E-01	1.00E+00	1.45E-02	1.00E+00	7.57E-02	1.00E+00	1.70E-08	2.35E-15
134	3.46E-01	4.90E-01	1.00E+00	8.43E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
211	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
183	1.00E+00	1.00E+00	7.93E-04	9.16E-01	1.00E+00	1.03E-02	1.00E+00	1.00E+00	4.54E-05
37	1.00E+00	1.00E+00	2.47E-01	1.00E+00	1.00E+00	1.00E+00	8.16E-01	1.00E+00	1.00E+00
124	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
166	3.46E-01	1.00E+00	9.87E-01	1.00E+00	1.00E+00	4.93E-02	1.00E+00	5.27E-01	2.17E-01
44	1.00E+00	4.47E-01	2.47E-01	9.16E-01	1.00E+00	4.55E-03	1.00E+00	1.00E+00	7.89E-02
342	4.66E-01	7.65E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
295	1.00E+00	1.00E+00	3.66E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
208	4.66E-01	1.00E+00	6.78E-01	2.90E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
60	1.00E+00	1.00E+00	9.87E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
53	1.00E+00	7.03E-01	9.87E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1149	6.50E-02	1.00E+00	2.47E-01	9.16E-01	1.15E-01	1.00E+00	3.47E-01	5.27E-01	1.00E+00

Supplemental Table 2 Tab 2

Reference.vs.light.24.hours	pH.1.hour.vs.pH.24.hours	NaCl.1hour.vs.NaCl.24.hours	CO2.1.hour.vs.CO2.24.hours	Temperature.1.hour.vs.Temperature.24.hours	light.1.hour.vs.light.24.hours
0	0	0	0	0	0
3	2	70	13	12	0
1	0	12	1	2	0
0	0	51	3	20	1
0	1	21	1	8	1
0	0	51	3	15	3
3	1	34	7	8	2
1	1	23	1	6	0
1	0	19	2	2	1
2	0	26	5	17	2
5	4	38	7	7	2
5	1	70	9	9	17
2	0	15	1	3	0
4	2	30	5	19	1

4	12	51	12	16	0
0	0	18	0	6	0
6	7	94	15	37	1
10	5	102	12	34	9
5	4	56	12	24	3
2	0	20	2	4	0
1	0	20	2	2	1
87	44	398	85	137	30
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	6.85E-03	6.20E-01	1.00E+00	1.00E+00
1.00E+00	1.00E+00	9.08E-01	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	7.20E-01	1.00E+00
1.00E+00	1.00E+00	9.08E-01	1.00E+00	7.20E-01	1.00E+00
1.00E+00	1.00E+00	5.26E-02	1.00E+00	7.20E-01	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	3.78E-01	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	7.20E-01	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.15E-01	1.00E+00	1.00E+00	5.52E-07
1.00E+00	1.00E+00	3.93E-01	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	3.75E-01	1.00E+00
1.00E+00	1.94E-03	9.67E-01	9.62E-01	1.00E+00	1.00E+00
1.00E+00	1.00E+00	3.78E-01	1.00E+00	7.20E-01	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	7.20E-01	1.00E+00
1.00E+00	1.00E+00	3.78E-01	1.00E+00	7.20E-01	7.41E-01
1.00E+00	1.00E+00	1.00E+00	1.00E+00	7.20E-01	1.00E+00
1.00E+00	1.00E+00	8.79E-01	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	4.46E-01	1.00E+00	1.00E+00	1.00E+00

Supplemental Table 2 Tab 2

1.75E-14	1.38E-04	1.31E-02	4.30E-04	9.02E-02	2.67E-01

Reference.vs.	pH.1.hour.vs.	NaCl.1hour.v	CO2.1.hour.v	Temperature.1.hour.vs.	Temperature.24.hours
0	0	0	0	0	0
73	33	25	51	12	8
17	1	7	10	1	2
84	19	31	43	7	1
33	14	8	21	2	1
53	19	14	46	2	3
56	24	30	34	11	1
31	11	4	21	0	0
78	74	61	45	35	1
27	18	35	22	16	1
25	59	67	16	45	22
75	24	17	45	6	0
2	0	2	2	0	2
43	21	23	23	5	1
48	26	39	45	25	2
24	11	3	15	0	1
95	41	79	64	17	8
59	33	43	54	19	3
35	12	33	28	7	2
15	8	10	8	3	2
8	6	12	5	4	0
250	154	227	244	151	42
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.72E-05	3.18E-01	1.00E+00	1.08E-02	1.00E+00	4.10E-01
4.33E-02	1.00E+00	1.00E+00	5.17E-01	1.00E+00	1.00E+00

Supplemental Table 2 Tab 2

1.78E-06	1.00E+00	1.00E+00	5.17E-01	1.00E+00	1.00E+00
7.74E-04	5.84E-01	1.00E+00	1.32E-01	1.00E+00	1.00E+00
9.31E-04	1.00E+00	1.00E+00	5.28E-04	1.00E+00	1.00E+00
4.25E-03	9.48E-01	1.00E+00	5.02E-01	1.00E+00	1.00E+00
5.46E-04	9.48E-01	1.00E+00	6.27E-02	1.00E+00	1.00E+00
7.61E-08	2.87E-21	6.76E-08	6.34E-02	2.28E-06	1.00E+00
1.00E+00	1.00E+00	2.81E-01	1.00E+00	8.21E-01	1.00E+00
1.00E+00	1.59E-05	1.29E-04	1.00E+00	1.19E-06	2.86E-07
7.74E-04	1.00E+00	1.00E+00	4.63E-01	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.78E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
9.57E-01	1.00E+00	5.31E-01	1.46E-01	5.96E-02	1.00E+00
9.07E-04	3.73E-01	1.00E+00	1.32E-01	1.00E+00	1.00E+00
1.00E+00	1.00E+00	3.03E-01	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.00E+00	1.00E+00	1.00E+00	1.00E+00	2.28E-06	8.45E-02

CDS of chromosome that might need correction
Synpcc7942_1762
Synpcc7942_1171
Synpcc7942_1684
Synpcc7942_0329
Synpcc7942_0960
Synpcc7942_0686
Synpcc7942_2459
Synpcc7942_1920
Synpcc7942_1393
Synpcc7942_1071
Synpcc7942_1354
Synpcc7942_1214
Synpcc7942_0490
Synpcc7942_1819
Synpcc7942_1261
Synpcc7942_0959
Synpcc7942_2281
Synpcc7942_2028
Synpcc7942_1926
Synpcc7942_1027
Synpcc7942_1624
Synpcc7942_0413
Synpcc7942_0671
Synpcc7942_1202
Synpcc7942_2174
Synpcc7942_2357
Synpcc7942_0088
Synpcc7942_0710
Synpcc7942_1818
Synpcc7942_1051
Synpcc7942_0377
Synpcc7942_0404
Synpcc7942_2541
Synpcc7942_1851
Synpcc7942_0035
Synpcc7942_1001
Synpcc7942_1151
Synpcc7942_2039
Synpcc7942_1442
Synpcc7942_2164
Synpcc7942_0234
Synpcc7942_0540
Synpcc7942_1917
Synpcc7942_0457
Synpcc7942_0576
Synpcc7942_0588
Synpcc7942_1152

Synpcc7942_0789
Synpcc7942_1553
Synpcc7942_0455
Synpcc7942_1270
Synpcc7942_0506
Synpcc7942_2155
Synpcc7942_2280
Synpcc7942_1089
Synpcc7942_1652
Synpcc7942_0352
Synpcc7942_1533
Synpcc7942_0902
Synpcc7942_0801
Synpcc7942_1563
Synpcc7942_0749
Synpcc7942_2589
Synpcc7942_1317
Synpcc7942_1206
Synpcc7942_0376
Synpcc7942_2610
Synpcc7942_0930
Synpcc7942_2544
Synpcc7942_0892
Synpcc7942_2402
Synpcc7942_0150
Synpcc7942_1255
Synpcc7942_1507
Synpcc7942_2458
Synpcc7942_1812
Synpcc7942_1060
Synpcc7942_0256
Synpcc7942_2535
Synpcc7942_0982
Synpcc7942_1551
Synpcc7942_0863
Synpcc7942_1155
Synpcc7942_0368
Synpcc7942_0845
Synpcc7942_1612
Synpcc7942_1984
Synpcc7942_1061
Synpcc7942_1273
Synpcc7942_1110
Synpcc7942_2258
Synpcc7942_0552
Synpcc7942_1000
Synpcc7942_0452
Synpcc7942_1100

Synpcc7942_0921
Synpcc7942_0876
Synpcc7942_0528
Synpcc7942_0761
Synpcc7942_1767
Synpcc7942_0589
Synpcc7942_1501
Synpcc7942_1911
Synpcc7942_1245
Synpcc7942_0610
Synpcc7942_1199
Synpcc7942_1124
Synpcc7942_1525
Synpcc7942_0766
Synpcc7942_0440
Synpcc7942_1566
Synpcc7942_2299
Synpcc7942_2490
Synpcc7942_1634
Synpcc7942_2562
Synpcc7942_2122
Synpcc7942_0604
Synpcc7942_2175
Synpcc7942_2347
Synpcc7942_0171
Synpcc7942_1082
Synpcc7942_1264
Synpcc7942_1663
Synpcc7942_0878
Synpcc7942_0303
Synpcc7942_0227
Synpcc7942_0831
Synpcc7942_1091
Synpcc7942_0476
Synpcc7942_0265
Synpcc7942_2390
Synpcc7942_0901
Synpcc7942_0725
Synpcc7942_0560
Synpcc7942_1607
Synpcc7942_1324
Synpcc7942_0807
Synpcc7942_0971
Synpcc7942_2325
Synpcc7942_0660
Synpcc7942_0385
Synpcc7942_1768
Synpcc7942_0544

Synpcc7942_2010
Synpcc7942_1301
Synpcc7942_1318
Synpcc7942_1204
Synpcc7942_1986
Synpcc7942_2312
Synpcc7942_1764
Synpcc7942_0151
Synpcc7942_1334
Synpcc7942_0189
Synpcc7942_1369
Synpcc7942_0031
Synpcc7942_2376
Synpcc7942_1722
Synpcc7942_2159
Synpcc7942_1886
Synpcc7942_0350
Synpcc7942_2435
Synpcc7942_1028
Synpcc7942_0223
Synpcc7942_2125
Synpcc7942_2083
Synpcc7942_1164
Synpcc7942_0891
Synpcc7942_0097
Synpcc7942_2090
Synpcc7942_1452
Synpcc7942_1678

CDS without 5'
Synpcc7942_0028
Synpcc7942_0029
Synpcc7942_0030
Synpcc7942_0034
Synpcc7942_0036
Synpcc7942_0045
Synpcc7942_0094
Synpcc7942_0116
Synpcc7942_0117
Synpcc7942_0174
Synpcc7942_0211
Synpcc7942_0226
Synpcc7942_0251
Synpcc7942_0294
Synpcc7942_0296
Synpcc7942_0339
Synpcc7942_0370
Synpcc7942_0371
Synpcc7942_0408
Synpcc7942_0539
Synpcc7942_0609
Synpcc7942_0724
Synpcc7942_0726
Synpcc7942_0727
Synpcc7942_0731
Synpcc7942_0738
Synpcc7942_0739
Synpcc7942_0740
Synpcc7942_0741
Synpcc7942_0747
Synpcc7942_0748
Synpcc7942_0755
Synpcc7942_0765
Synpcc7942_0767
Synpcc7942_0768
Synpcc7942_0769
Synpcc7942_0826
Synpcc7942_0872
Synpcc7942_0907
Synpcc7942_0986
Synpcc7942_1005
Synpcc7942_1047
Synpcc7942_1048
Synpcc7942_1049
Synpcc7942_1050
Synpcc7942_1052
Synpcc7942_1053

Synpcc7942_1054
Synpcc7942_1066
Synpcc7942_1067
Synpcc7942_1073
Synpcc7942_1077
Synpcc7942_1097
Synpcc7942_1109
Synpcc7942_1138
Synpcc7942_1160
Synpcc7942_1161
Synpcc7942_1162
Synpcc7942_1163
Synpcc7942_1173
Synpcc7942_1185
Synpcc7942_1186
Synpcc7942_1188
Synpcc7942_1205
Synpcc7942_1213
Synpcc7942_1258
Synpcc7942_1288
Synpcc7942_1296
Synpcc7942_1300
Synpcc7942_1322
Synpcc7942_1408
Synpcc7942_1444
Synpcc7942_1488
Synpcc7942_1489
Synpcc7942_1490
Synpcc7942_1491
Synpcc7942_1538
Synpcc7942_1543
Synpcc7942_1550
Synpcc7942_1558
Synpcc7942_1571
Synpcc7942_1579
Synpcc7942_1581
Synpcc7942_1583
Synpcc7942_1623
Synpcc7942_1639
Synpcc7942_1686
Synpcc7942_1687
Synpcc7942_1688
Synpcc7942_1698
Synpcc7942_1723
Synpcc7942_1757
Synpcc7942_1790
Synpcc7942_1799
Synpcc7942_1801

Synpcc7942_1887
Synpcc7942_1892
Synpcc7942_1918
Synpcc7942_1956
Synpcc7942_1966
Synpcc7942_1968
Synpcc7942_2018
Synpcc7942_2034
Synpcc7942_2108
Synpcc7942_2111
Synpcc7942_2170
Synpcc7942_2172
Synpcc7942_2173
Synpcc7942_2186
Synpcc7942_2298
Synpcc7942_2375
Synpcc7942_2475
Synpcc7942_2505
Synpcc7942_2510
Synpcc7942_2586
Synpcc7942_2585
Synpcc7942_2573
Synpcc7942_2559
Synpcc7942_2515
Synpcc7942_2436
Synpcc7942_2421
Synpcc7942_2367
Synpcc7942_2350
Synpcc7942_2345
Synpcc7942_2286
Synpcc7942_2277
Synpcc7942_2272
Synpcc7942_2269
Synpcc7942_2260
Synpcc7942_2256
Synpcc7942_2238
Synpcc7942_2237
Synpcc7942_2232
Synpcc7942_2231
Synpcc7942_2230
Synpcc7942_2229
Synpcc7942_2228
Synpcc7942_2227
Synpcc7942_2226
Synpcc7942_2225
Synpcc7942_2224
Synpcc7942_2223
Synpcc7942_2222

Synpcc7942_2221
Synpcc7942_2220
Synpcc7942_2219
Synpcc7942_2218
Synpcc7942_2217
Synpcc7942_2216
Synpcc7942_2215
Synpcc7942_2211
Synpcc7942_2210
Synpcc7942_2209
Synpcc7942_2208
Synpcc7942_2191
Synpcc7942_2166
Synpcc7942_2165
Synpcc7942_2157
Synpcc7942_2097
Synpcc7942_2065
Synpcc7942_2049
Synpcc7942_2048
Synpcc7942_2040
Synpcc7942_2019
Synpcc7942_1945
Synpcc7942_1938
Synpcc7942_1899
Synpcc7942_1897
Synpcc7942_1808
Synpcc7942_1781
Synpcc7942_1759
Synpcc7942_1756
Synpcc7942_1699
Synpcc7942_1637
Synpcc7942_1601
Synpcc7942_1547
Synpcc7942_1541
Synpcc7942_1540
Synpcc7942_1539
Synpcc7942_1505
Synpcc7942_1494
Synpcc7942_1475
Synpcc7942_1462
Synpcc7942_1461
Synpcc7942_1441
Synpcc7942_1389
Synpcc7942_1383
Synpcc7942_1375
Synpcc7942_1366
Synpcc7942_1316
Synpcc7942_1285

Synpcc7942_1233
Synpcc7942_1165
Synpcc7942_1134
Synpcc7942_1133
Synpcc7942_1132
Synpcc7942_1119
Synpcc7942_1118
Synpcc7942_1103
Synpcc7942_1096
Synpcc7942_1084
Synpcc7942_1076
Synpcc7942_1075
Synpcc7942_1070
Synpcc7942_1041
Synpcc7942_1024
Synpcc7942_1004
Synpcc7942_0962
Synpcc7942_0953
Synpcc7942_0923
Synpcc7942_0922
Synpcc7942_0914
Synpcc7942_0913
Synpcc7942_0900
Synpcc7942_0886
Synpcc7942_0885
Synpcc7942_0884
Synpcc7942_0883
Synpcc7942_0874
Synpcc7942_0816
Synpcc7942_0790
Synpcc7942_0780
Synpcc7942_0764
Synpcc7942_0763
Synpcc7942_0754
Synpcc7942_0722
Synpcc7942_0721
Synpcc7942_0720
Synpcc7942_0719
Synpcc7942_0718
Synpcc7942_0717
Synpcc7942_0693
Synpcc7942_0632
Synpcc7942_0631
Synpcc7942_0606
Synpcc7942_0605
Synpcc7942_0601
Synpcc7942_0586
Synpcc7942_0580

Synpcc7942_0547
Synpcc7942_0533
Synpcc7942_0532
Synpcc7942_0503
Synpcc7942_0502
Synpcc7942_0500
Synpcc7942_0475
Synpcc7942_0454
Synpcc7942_0449
Synpcc7942_0384
Synpcc7942_0375
Synpcc7942_0358
Synpcc7942_0327
Synpcc7942_0326
Synpcc7942_0325
Synpcc7942_0314
Synpcc7942_0306
Synpcc7942_0239
Synpcc7942_0218
Synpcc7942_0182
Synpcc7942_0167
Synpcc7942_0131
Synpcc7942_0123
Synpcc7942_0121
Synpcc7942_0115
Synpcc7942_0074
Synpcc7942_0072
Synpcc7942_0064
Synpcc7942_0063
Synpcc7942_0015
Synpcc7942_0005

CDS	where located in the Transcriptional Unit
Synpcc7942_0019	transcriptional unit start
Synpcc7942_0020	transcriptional unit end
Synpcc7942_0046	transcriptional unit start
Synpcc7942_0047	transcriptional unit end
Synpcc7942_0075	transcriptional unit start
Synpcc7942_0076	transcriptional unit end
Synpcc7942_0083	transcriptional unit start
Synpcc7942_0084	transcriptional unit end
Synpcc7942_0109	transcriptional unit start
Synpcc7942_0110	transcriptional unit end
Synpcc7942_0112	transcriptional unit start
Synpcc7942_0113	transcriptional unit end
Synpcc7942_0154	transcriptional unit start
Synpcc7942_0155	transcriptional unit end
Synpcc7942_0164	transcriptional unit start
Synpcc7942_0165	middle transcriptional unit
Synpcc7942_0166	transcriptional unit end
Synpcc7942_0171	transcriptional unit start
Synpcc7942_0172	transcriptional unit end
Synpcc7942_0183	transcriptional unit start
Synpcc7942_0184	transcriptional unit end
Synpcc7942_0205	transcriptional unit start
Synpcc7942_0206	transcriptional unit end
Synpcc7942_0221	transcriptional unit start
Synpcc7942_0222	transcriptional unit end
Synpcc7942_0246	transcriptional unit start
Synpcc7942_0247	middle transcriptional unit
Synpcc7942_0248	transcriptional unit end
Synpcc7942_0249	transcriptional unit start
Synpcc7942_0250	transcriptional unit end
Synpcc7942_0270	transcriptional unit start
Synpcc7942_0271	transcriptional unit end
Synpcc7942_0272	transcriptional unit start
Synpcc7942_0273	transcriptional unit end
Synpcc7942_0274	transcriptional unit start
Synpcc7942_0275	transcriptional unit end
Synpcc7942_0278	transcriptional unit start
Synpcc7942_0279	transcriptional unit end
Synpcc7942_0284	transcriptional unit start
Synpcc7942_0285	middle transcriptional unit
Synpcc7942_0286	middle transcriptional unit
Synpcc7942_0287	transcriptional unit end
Synpcc7942_0289	transcriptional unit start
Synpcc7942_0290	transcriptional unit end
Synpcc7942_0291	transcriptional unit start
Synpcc7942_0292	transcriptional unit end
Synpcc7942_0330	transcriptional unit start

Synpcc7942_0331 middle transcriptional unit
Synpcc7942_0332 middle transcriptional unit
Synpcc7942_0333 middle transcriptional unit
Synpcc7942_0334 middle transcriptional unit
Synpcc7942_0335 middle transcriptional unit
Synpcc7942_0336 middle transcriptional unit
Synpcc7942_0337 transcriptional unit end
Synpcc7942_0340 transcriptional unit start
Synpcc7942_0341 transcriptional unit end
Synpcc7942_0362 transcriptional unit start
Synpcc7942_0363 transcriptional unit end
Synpcc7942_0396 transcriptional unit start
Synpcc7942_0397 transcriptional unit end
Synpcc7942_0416 transcriptional unit start
Synpcc7942_0417 transcriptional unit end
Synpcc7942_0430 transcriptional unit start
Synpcc7942_0431 middle transcriptional unit
Synpcc7942_0432 transcriptional unit end
Synpcc7942_0434 transcriptional unit start
Synpcc7942_0435 middle transcriptional unit
Synpcc7942_0436 transcriptional unit end
Synpcc7942_0437 transcriptional unit start
Synpcc7942_0438 transcriptional unit end
Synpcc7942_0485 transcriptional unit start
Synpcc7942_0486 transcriptional unit end
Synpcc7942_0506 transcriptional unit start
Synpcc7942_0507 middle transcriptional unit
Synpcc7942_0508 transcriptional unit end
Synpcc7942_0520 transcriptional unit start
Synpcc7942_0521 transcriptional unit end
Synpcc7942_0529 transcriptional unit start
Synpcc7942_0530 transcriptional unit end
Synpcc7942_0536 transcriptional unit start
Synpcc7942_0537 transcriptional unit end
Synpcc7942_0544 transcriptional unit start
Synpcc7942_0545 transcriptional unit end
Synpcc7942_0549 transcriptional unit start
Synpcc7942_0550 transcriptional unit end
Synpcc7942_0565 transcriptional unit start
Synpcc7942_0566 transcriptional unit end
Synpcc7942_0578 transcriptional unit start
Synpcc7942_0579 transcriptional unit end
Synpcc7942_0589 transcriptional unit start
Synpcc7942_0590 middle transcriptional unit
Synpcc7942_0591 transcriptional unit end
Synpcc7942_0618 transcriptional unit start
Synpcc7942_0619 transcriptional unit end
Synpcc7942_0621 transcriptional unit start

Synpcc7942_0622 transcriptional unit end
Synpcc7942_0624 transcriptional unit start
Synpcc7942_0625 transcriptional unit end
Synpcc7942_0655 transcriptional unit start
Synpcc7942_0656 transcriptional unit end
Synpcc7942_0663 transcriptional unit start
Synpcc7942_0664 transcriptional unit end
Synpcc7942_0672 transcriptional unit start
Synpcc7942_0673 transcriptional unit end
Synpcc7942_0682 transcriptional unit start
Synpcc7942_0683 transcriptional unit end
Synpcc7942_0687 transcriptional unit start
Synpcc7942_0688 transcriptional unit end
Synpcc7942_0701 transcriptional unit start
Synpcc7942_0702 transcriptional unit end
Synpcc7942_0703 transcriptional unit start
Synpcc7942_0704 middle transcriptional unit
Synpcc7942_0705 transcriptional unit end
Synpcc7942_0732 transcriptional unit start
Synpcc7942_0733 transcriptional unit end
Synpcc7942_0734 transcriptional unit start
Synpcc7942_0735 middle transcriptional unit
Synpcc7942_0736 middle transcriptional unit
Synpcc7942_0737 transcriptional unit end
Synpcc7942_0742 transcriptional unit start
Synpcc7942_0743 middle transcriptional unit
Synpcc7942_0744 middle transcriptional unit
Synpcc7942_0745 middle transcriptional unit
Synpcc7942_0746 transcriptional unit end
Synpcc7942_0749 transcriptional unit start
Synpcc7942_0750 middle transcriptional unit
Synpcc7942_0751 middle transcriptional unit
Synpcc7942_0752 middle transcriptional unit
Synpcc7942_0753 transcriptional unit end
Synpcc7942_0757 transcriptional unit start
Synpcc7942_0758 transcriptional unit end
Synpcc7942_0784 transcriptional unit start
Synpcc7942_0785 transcriptional unit end
Synpcc7942_0805 transcriptional unit start
Synpcc7942_0806 transcriptional unit end
Synpcc7942_0809 transcriptional unit start
Synpcc7942_0810 transcriptional unit end
Synpcc7942_0814 transcriptional unit start
Synpcc7942_0815 transcriptional unit end
Synpcc7942_0818 transcriptional unit start
Synpcc7942_0819 transcriptional unit end
Synpcc7942_0820 transcriptional unit start
Synpcc7942_0821 middle transcriptional unit

Synpcc7942_0822 transcriptional unit end
Synpcc7942_0823 transcriptional unit start
Synpcc7942_0824 transcriptional unit end
Synpcc7942_0829 transcriptional unit start
Synpcc7942_0830 transcriptional unit end
Synpcc7942_0855 transcriptional unit start
Synpcc7942_0856 middle transcriptional unit
Synpcc7942_0857 middle transcriptional unit
Synpcc7942_0858 middle transcriptional unit
Synpcc7942_0859 middle transcriptional unit
Synpcc7942_0860 transcriptional unit end
Synpcc7942_0867 transcriptional unit start
Synpcc7942_0868 middle transcriptional unit
Synpcc7942_0869 transcriptional unit end
Synpcc7942_0878 transcriptional unit start
Synpcc7942_0879 transcriptional unit end
Synpcc7942_0896 transcriptional unit start
Synpcc7942_0897 middle transcriptional unit
Synpcc7942_0898 transcriptional unit end
Synpcc7942_0905 transcriptional unit start
Synpcc7942_0906 transcriptional unit end
Synpcc7942_0910 transcriptional unit start
Synpcc7942_0911 transcriptional unit end
Synpcc7942_0928 transcriptional unit start
Synpcc7942_0929 transcriptional unit end
Synpcc7942_0930 transcriptional unit start
Synpcc7942_0931 middle transcriptional unit
Synpcc7942_0932 transcriptional unit end
Synpcc7942_0956 transcriptional unit start
Synpcc7942_0957 transcriptional unit end
Synpcc7942_0967 transcriptional unit start
Synpcc7942_0968 transcriptional unit end
Synpcc7942_0982 transcriptional unit start
Synpcc7942_0983 middle transcriptional unit
Synpcc7942_0984 transcriptional unit end
Synpcc7942_0995 transcriptional unit start
Synpcc7942_0996 transcriptional unit end
Synpcc7942_1019 transcriptional unit start
Synpcc7942_1020 middle transcriptional unit
Synpcc7942_1021 transcriptional unit end
Synpcc7942_1029 transcriptional unit start
Synpcc7942_1030 transcriptional unit end
Synpcc7942_1032 transcriptional unit start
Synpcc7942_1033 middle transcriptional unit
Synpcc7942_1034 transcriptional unit end
Synpcc7942_1037 transcriptional unit start
Synpcc7942_1038 transcriptional unit end
Synpcc7942_1062 transcriptional unit start

Synpcc7942_1063 transcriptional unit end
Synpcc7942_1064 transcriptional unit start
Synpcc7942_1065 transcriptional unit end
Synpcc7942_1078 transcriptional unit start
Synpcc7942_1079 transcriptional unit end
Synpcc7942_1086 transcriptional unit start
Synpcc7942_1087 transcriptional unit end
Synpcc7942_1101 transcriptional unit start
Synpcc7942_1102 transcriptional unit end
Synpcc7942_1122 transcriptional unit start
Synpcc7942_1123 transcriptional unit end
Synpcc7942_1156 transcriptional unit start
Synpcc7942_1157 transcriptional unit end
Synpcc7942_1180 transcriptional unit start
Synpcc7942_1181 middle transcriptional unit
Synpcc7942_1182 transcriptional unit end
Synpcc7942_1214 transcriptional unit start
Synpcc7942_1215 transcriptional unit end
Synpcc7942_1219 transcriptional unit start
Synpcc7942_1220 transcriptional unit end
Synpcc7942_1241 transcriptional unit start
Synpcc7942_1242 transcriptional unit end
Synpcc7942_1246 transcriptional unit start
Synpcc7942_1247 middle transcriptional unit
Synpcc7942_1248 transcriptional unit end
Synpcc7942_1256 transcriptional unit start
Synpcc7942_1257 transcriptional unit end
Synpcc7942_1308 transcriptional unit start
Synpcc7942_1309 transcriptional unit end
Synpcc7942_1325 transcriptional unit start
Synpcc7942_1326 transcriptional unit end
Synpcc7942_1327 transcriptional unit start
Synpcc7942_1328 transcriptional unit end
Synpcc7942_1329 transcriptional unit start
Synpcc7942_1330 transcriptional unit end
Synpcc7942_1332 transcriptional unit start
Synpcc7942_1333 transcriptional unit end
Synpcc7942_1334 transcriptional unit start
Synpcc7942_1335 transcriptional unit end
Synpcc7942_1336 transcriptional unit start
Synpcc7942_1337 transcriptional unit end
Synpcc7942_1343 transcriptional unit start
Synpcc7942_1344 middle transcriptional unit
Synpcc7942_1345 middle transcriptional unit
Synpcc7942_1346 transcriptional unit end
Synpcc7942_1379 transcriptional unit start
Synpcc7942_1380 transcriptional unit end
Synpcc7942_1387 transcriptional unit start

Synpcc7942_1388 transcriptional unit end
Synpcc7942_1394 transcriptional unit start
Synpcc7942_1395 transcriptional unit end
Synpcc7942_1419 transcriptional unit start
Synpcc7942_1420 transcriptional unit end
Synpcc7942_1421 transcriptional unit start
Synpcc7942_1422 middle transcriptional unit
Synpcc7942_1423 transcriptional unit end
Synpcc7942_1426 transcriptional unit start
Synpcc7942_1427 transcriptional unit end
Synpcc7942_1456 transcriptional unit start
Synpcc7942_1457 transcriptional unit end
Synpcc7942_1466 transcriptional unit start
Synpcc7942_1467 transcriptional unit end
Synpcc7942_1502 transcriptional unit start
Synpcc7942_1503 transcriptional unit end
Synpcc7942_1513 transcriptional unit start
Synpcc7942_1514 transcriptional unit end
Synpcc7942_1520 transcriptional unit start
Synpcc7942_1521 transcriptional unit end
Synpcc7942_1522 transcriptional unit start
Synpcc7942_1523 transcriptional unit end
Synpcc7942_1531 transcriptional unit start
Synpcc7942_1532 transcriptional unit end
Synpcc7942_1534 transcriptional unit start
Synpcc7942_1535 middle transcriptional unit
Synpcc7942_1536 middle transcriptional unit
Synpcc7942_1537 transcriptional unit end
Synpcc7942_1544 transcriptional unit start
Synpcc7942_1545 middle transcriptional unit
Synpcc7942_1546 transcriptional unit end
Synpcc7942_1572 transcriptional unit start
Synpcc7942_1573 middle transcriptional unit
Synpcc7942_1574 middle transcriptional unit
Synpcc7942_1575 middle transcriptional unit
Synpcc7942_1576 transcriptional unit end
Synpcc7942_1593 transcriptional unit start
Synpcc7942_1594 middle transcriptional unit
Synpcc7942_1595 transcriptional unit end
Synpcc7942_1596 transcriptional unit start
Synpcc7942_1597 middle transcriptional unit
Synpcc7942_1598 transcriptional unit end
Synpcc7942_1603 transcriptional unit start
Synpcc7942_1604 transcriptional unit end
Synpcc7942_1613 transcriptional unit start
Synpcc7942_1614 transcriptional unit end
Synpcc7942_1617 transcriptional unit start
Synpcc7942_1618 transcriptional unit end

Synpcc7942_1619 transcriptional unit start
Synpcc7942_1620 transcriptional unit end
Synpcc7942_1628 transcriptional unit start
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Synpcc7942_0006 transcriptional unit end

###computationally and manually inspected

CDS that might need corrections:

Synpcc7942_B2660

CDS without 5' :

Synpcc7942_B2615
Synpcc7942_B2616
Synpcc7942_B2617
Synpcc7942_B2618
Synpcc7942_B2619
Synpcc7942_B2620
Synpcc7942_B2621
Synpcc7942_B2622
Synpcc7942_B2623
Synpcc7942_B2624
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Synpcc7942_B2627
Synpcc7942_B2628
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Synpcc7942_B2640
Synpcc7942_B2641
Synpcc7942_B2642
Synpcc7942_B2643
Synpcc7942_B2644
Synpcc7942_B2646
Synpcc7942_B2650
Synpcc7942_B2651
Synpcc7942_B2652
Synpcc7942_B2653
Synpcc7942_B2656
Synpcc7942_B2657
Synpcc7942_B2658
Synpcc7942_B2659
Synpcc7942_B2661
Synpcc7942_B2662
Synpcc7942_B2663
Synpcc7942_B2664

>=2 CDS in same TU (transcriptional unit):

Synpcc7942_B2631	transcriptional unit start
Synpcc7942_B2652	transcriptional unit end
Synpcc7942_B2638	transcriptional unit start
Synpcc7942_B2639	transcriptional unit end
Synpcc7942_B2637	transcriptional unit start

Synpcc7942_B2636	transcriptional unit end

Supplemental Table 4Tab 1

locus_tag	correlated gen	correlated gene annotation (from IMG)	Length	IMG KO	IMG COG
sll1214	ssr3451	cytochrome b559 subunit alpha	358AA	K04035, acsF	
	smr0006	cytochrome b559 subunit beta			
	smr0008	photosystem II reaction center protein PsbJ			
sgl0002	**ssr3451**	**cytochrome b559 subunit alpha**	**49AA**	**none**	
	smr0006	cytochrome b559 subunit beta			
	smr0007	photosystem II reaction center L			
	smr0008	photosystem II reaction center protein PsbJ			
	smr0003	cytochrome b6-f complex subunit; PetM			
	sml0001	photosystem II reaction center I protein PsbI			
sll1032	sll1031	carbon dioxide concentrating mechanism protein; CcmM	241AA	K08699, ccmN	
	sll1030	carbon dioxide concentrating mechanism protein; CcmL			
	sll1028	carbon dioxide concentrating mechanism protein; CcmK			
	sll1029	carbon dioxide concentrating mechanism protein; CcmK			
sll1188	sll1324	ATP synthase subunit B (EC:3.6.3.14)	164AA	K09705, hypoth	
	sll1325	ATP synthase subunit D (EC:3.6.3.14)			
	sll1326	ATP synthase subunit A (EC:3.6.3.14)			
	slr1329	ATP synthase subunit B (EC:3.6.3.14)			
	slr1330	ATP synthase subunit epsilon (EC:3.6.3.14)			
slr0962	sll5104	arsenate reductase (EC:1.20.4.1)	477AA	none	
	slr6037	arsenate reductase (EC:1.20.4.1)			
slr1894	slr0530	membrane bound sugar transport protein	156AA	K04047, dps	COG0783
	slr0531	membrane bound sugar transport protein			
sll1734	sll1733	NADH dehydrogenase subunit M (EC:1.6.5.3)		none	
	sll1732	NADH dehydrogenase subunit L (EC:1.6.5.3)			
sll1158	**slr0043**	**nitrate transport protein; NrtC (EC:3.6.3.-)**	**125AA**	**none**	
	slr0044	nitrate transport protein; NrtD (EC:3.6.3.-)			
ssl1498	**ssr0390**	**photosystem I subunit X**	**61AA**	**none**	
	sll0258	cytochrome c550			
	slr1655	photosystem I reaction center protein subunit XI			
ssl0483	**slr1655**	**photosystem I reaction center protein subunit XI**	**66AA**	**none**	
	smr0004	photosystem I subunit VIII			
sll0630	**sll0629**	**photosystem I subunit X**	**145AA**	**none**	

Supplemental Table 4Tab 1

sll0727	sll1606	hypothetical protein	588AA	none	COG5303, mem
	slr1330	ATP synthase subunit epsilon (EC:3.6.3.14)			
	sll0027	NADH dehydrogenase subunit M (EC:1.6.5.3)			
	sll1323	ATP synthase subunit B (EC:3.6.3.14)			
	ssl2615	ATP synthase subunit C (EC:3.6.3.14)			
	sll1322	ATP synthase subunit A (EC:3.6.3.14)			
ssl5045	**sml0008**	**photosystem I reaction center subunit IX**	**60AA**	**none**	
	slr1834	P700 apoprotein subunit Ia			
	sll0851	photosystem II CP43 protein			
	slr0906	photosystem II CP47 protein			
ssl5099	slr1265	DNA-directed RNA polymerase gamma chain (EC:2.7.7.6)	97AA	none	COG3183, endo
	sll1787	DNA-directed RNA polymerase beta subunit (EC:2.7.7.6)			

Supplemental Table 4Tab 1

IMG pfam	July 2012 Corr Locus	July 2012 Corr Desc
pfam02915	S6july2012_00005	magnesium-protoporphyrin IX monomethyl ester aerobic oxidative cyclase
	S6july2012_00154	**hypothetical protein**
pfam00132	S6july2012_00204	Bacterial transferase hexapeptide (three repeats). Chose pfam over KO and removed ccmN annotation.
pfam06172	S6july2012_00298	Uncharacterized conserved protein
pfam07444, uncharacterised	S6july2012_00305	Ycf66 protein N-terminus.
pfam10216, ChpXY, CO2 hydration, assoc with NAD(P)H	S6july2012_00900	CO2 hydration protein
	S6july2012_01324	**hypothetical protein**
	S6july2012_01664	**hypothetical protein**
	S6july2012_02060	**hypothetical protein**
	S6july2012_03146	**hypothetical protein**

brane	S6july2012_03251	Predicted membrane protein
	No gene	**Intergenic space**
nuclease	S6july2012_03476	hypothetical protein

Supplemental Table 4Tab 2

locus_tag	correlated genes (locus tag):	correlated gene annotation (from IMG)	Lnegth
Synpcc7942_0304	Synpcc7942_2555	NAD-reducing hydrogenase HoxS beta subunit	215AA
	Synpcc7942_2556	NAD-reducing hydrogenase HoxS delta subunit	
	Synpcc7942_2557	NAD-reducing hydrogenase HoxS gamma subunit (EC:1.6.5.3)	
Synpcc7942_0330	Synpcc7942_0331	ATP synthase F0, A subunit (EC:3.6.3.14)	168AA
	Synpcc7942_0333	ATP synthase subunit B' (EC:3.6.3.14)	
Synpcc7942_0499	Synpcc7942_0278	NADH:ubiquinone oxidoreductase 24 kD subunit-like (EC:1.6.5.3)	331AA
	Synpcc7942_0279	NADH dehydrogenase (quinone) (EC:1.6.5.3)	
Synpcc7942_0908	Synpcc7942_0847	twitching motility protein	235AA
	Synpcc7942_2070	twitching motility protein	
Synpcc7942_1470	Synpcc7942_1468	putative multicomponent Na+:H+ antiporter subunit B	97AA
Synpcc7942_1471	Synpcc7942_1469	putative multicomponent Na+:H+ antiporter subunit B	85AA
Synpcc7942_1472	Synpcc7942_1470	hypothetical protein	128AA
	Synpcc7942_1471	hypothetical protein	
	Synpcc7942_1472	hypothetical protein	
	Synpcc7942_1473	putative multicomponent Na+:H+ antiporter subunit D	
	Synpcc7942_1475	sodium-dependent bicarbonate transporter	
Synpcc7942_1908	Synpcc7942_1343	NADH dehydrogenase subunit 1 (EC:1.6.5.3)	144AA
	Synpcc7942_1743	NADH dehydrogenase (ubiquinone) (EC:1.6.5.3)	
	Synpcc7942_1346	NADH dehydrogenase subunit 4L (EC:1.6.5.3)	
	Synpcc7942_1345	NADH dehydrogenase subunit 6 (EC:1.6.5.3)	
Synpcc7942_2031	Synpcc7942_0331	ATP synthase F0, A subunit (EC:3.6.3.14)	193AA
	Synpcc7942_0332	ATP synthase F0, C subunit (EC:3.6.3.14)	
Synpcc7942_2327	Synpcc7942_1343	NADH dehydrogenase subunit 1 (EC:1.6.5.3)	157AA
	Synpcc7942_1344	NADH-plastoquinone oxidoreductase, I subunit NADH-quinone oxidoreductase, chain I (EC:1.6.5.3)	
	Synpcc7942_1345	NADH dehydrogenase subunit 6 (EC:1.6.5.3)	
	Synpcc7942_1346	NADH dehydrogenase subunit 4L (EC:1.6.5.3)	
Synpcc7942_2347	Synpcc7942_0068	ATPase	358AA
	Synpcc7942_0417	ATPase	
Synpcc7942_2599	Synpcc7942_2600	protoheme IX farnesyltransferase (EC:2.5.1.-)	117AA
	Synpcc7942_2601	putative cytochrome aa3 controlling protein	
	Synpcc7942_2602	cytochrome c oxidase subunit II (EC:1.9.3.1)	
	Synpcc7942_2603	Cytochrome-c oxidase (EC:1.9.3.1)	

Supplemental Table 4Tab 2

IMG KO	IMG COG	IMG pfam	Other
none		PF05019, Coq	
K02116, atpi ATP synthase protein I		pfo3988, ATP synth I	
K00599, E2.1.1.-			
none			
K05571: mnhG, subunit G K05570: mnhF, subunit F K05569: mnhE, subunit E fully characterized, in synteny, transcriptomics not necessary			
none		PF11210, DUF2996	
none		PF09367, cpeS	IMG Pathway attach phycocyanobilin to allophycocyanin
none	COG3431	PF06146, psiE phosphate starvation	
none	COG3435		
none		PF01187	

Supplemental Table 4Tab 3

locus_tag	correlated gene	correlated gene annotation (from IMG)	pathway of the c	Uniprot annotatec	Length	IMG KO
sgl0002	**ssr3451**	**cytochrome b559 subunit alpha**	**photosynthesis**	**Uncharacterized**	**49AA**	**none**
	smr0006	cytochrome b559 subunit beta				
	smr0007	photosystem II reaction center L				
	smr0008	photosystem II reaction center protein PsbJ				
	smr0003	cytochrome b6-f complex subunit; PetM				
	sml0001	photosystem II reaction center I protein PsbI				
sll1158	**slr0043**	**nitrate transport protein; NrtC (EC:3.6.3.-)**		**Uncharacterized**	**125AA**	**none**
	slr0044	nitrate transport protein; NrtD (EC:3.6.3.-)				
ssl1498	**ssr0390**	**photosystem I subunit X**	**Photosynthesis**	**Uncharacterized**	**61AA**	**none**
	sll0258	cytochrome c550				
	slr1655	photosystem I reaction center protein subunit XI				
ssl0483	**slr1655**	**photosystem I reaction center protein subunit XI**	**Photosynthesis**	**Uncharacterized**	**66AA**	**none**
	smr0004	photosystem I subunit VIII				
sll0630	**sll0629**	**photosystem I subunit X**	**Photosynthesis**	**Uncharacterized**	**145AA**	**none**
ssl5045	**sml0008**	**photosystem I reaction center subunit IX**	**photosynthesis**	**Uncharacterized**	**60AA**	**none**
	slr1834	P700 apoprotein subunit Ia				
	sll0851	photosystem II CP43 protein				
	slr0906	photosystem II CP47 protein				
Synpcc7942_09	**Synpcc7942_**	**twitching motility protein**		**Uncharacterized**	**235AA**	**none**
	Synpcc7942_2	twitching motility protein				

Supplemental Table 4Tab 3

Updated Locus (6803)	Updated description (6803)
S6july2012_00154	**hypothetical protein**
S6july2012_01324	**hypothetical protein**
S6july2012_01664	**hypothetical protein**
S6july2012_02060	**hypothetical protein**
S6july2012_03146	**hypothetical protein**
No gene	**Intergenic space**
No update	**No update**

Synechococcus PCC 7942

Name/Annotation	locus tag	low temperature 1h	low temperature 24h	alkaline pH 1h	alkaline pH 24h
NADH dehydrogenases (NDH-1 and NDH-2) / succinate dehydrogenase					
type 2 NADH dehydrogenase	Synpcc7942_0101	0.606341	0.40360517	0.956741	0.426842
type 2 NADH dehydrogenase	Synpcc7942_0198	0.187789	-0.60318554	3.1715	0.999915
CupB, CO2 hydration protein	Synpcc7942_0308	-1.1516	-1.03587658	-0.204	-0.56432
NdhF4, NAD(P)H dehydrogenase, subunit NdhF3 family	Synpcc7942_0309	-0.97144	-0.89492938	-0.00325	-1.01291
putative succinate dehydrogenase cytochrome b-556 subunit	Synpcc7942_0314	-0.54636	0.30613357	0.040082	0.377663
NdhD4, proton-translocating NADH-quinone oxidoreductase, chain M	Synpcc7942_0609	-0.76174	0.3804916	0.18694	0.025841
succinate dehydrogenase	Synpcc7942_0641	0.395967	0.32671931	0.243923	0.636481
NdhC, NADH dehydrogenase subunit 3	Synpcc7942_1180	0.892195	1.47598342	0.495844	1.473314
NdhK, NADH-quinone oxidoreductase, B subunit	Synpcc7942_1181	0.721256	1.26392824	0.523377	0.592616
NdhJ, NADH dehydrogenase I subunit J	Synpcc7942_1182	0.570588	1.21069185	0.536952	0.387883
NdhA, NADH dehydrogenase subunit 1	Synpcc7942_1343	-0.05155	1.42547031	1.042479	1.168111
NdhI, NADH-plastoquinone oxidoreductase, I subunit NADH-quinone	Synpcc7942_1344	-0.09185	1.397068	0.994511	1.431619
NdhG, NADH dehydrogenase subunit 6	Synpcc7942_1345	-0.11764	1.23838323	0.865091	1.313018
NdhE, NADH dehydrogenase subunit 4L	Synpcc7942_1346	-0.02078	1.33753294	0.852282	1.274793
NdhB, Proton-translocating NADH-quinone oxidoreductase, chain N	Synpcc7942_1415	-0.57008	1.31041197	0.680857	0.536072
NdhD2, proton-translocating NADH-quinone oxidoreductase, chain M	Synpcc7942_1439	3.295213	2.02715123	4.739094	3.797747
NdhD6, putative multicomponent Na+:H+ antiporter subunit D	Synpcc7942_1473	3.075923	2.69752331	1.225095	2.380629
succinate dehydrogenase	Synpcc7942_1533	-1.23373	-0.65606253	0.591651	0.172127
NdhH, NADH dehydrogenase (ubiquinone)	Synpcc7942_1743	-0.52409	0.91127317	0.348914	0.390437
NdhD1, proton-translocating NADH-quinone oxidoreductase, chain M	Synpcc7942_1976	-1.25998	-0.49276695	0.515776	-0.67951
NdhF1, proton-translocating NADH-quinone oxidoreductase, chain L	Synpcc7942_1977	-0.07638	0.55171004	0.84529	0.451602
NdhM, NADH dehydrogenase I subunit M	Synpcc7942_1982	-0.26423	-0.03775179	0.392256	0.309243
NdhF3, NAD(P)H dehydrogenase, subunit NdhF3 family	Synpcc7942_2091	0.062848	3.85934416	1.820511	2.462186
NdhD3, proton-translocating NADH-quinone oxidoreductase, chain M	Synpcc7942_2092	0.017371	3.767775	1.903883	2.023634
CupA, CO2 hydration protein	Synpcc7942_2093	0.154739	3.18897002	1.333244	1.711399

NdhN, NADH dehydrogenase I subunit N	Synpcc7942_2234	0.054018	2.23085881	1.277931	0.563911
type 2 NADH dehydrogenase NdbB	Synpcc7942_2508	1.087683	-0.08385444	1.420777	0.81501
Photosystem II					
PsbH, hypothetical protein	Synpcc7942_0225	0.444085	-0.15096167	0.032759	0.416334
PsbO, photosystem II manganese-stabilizing polypeptide	Synpcc7942_0294	-0.5479	0.4716884	-0.8771	-0.39343
photosystem II 11 kD protein	Synpcc7942_0343	0.391709	0.14808771	-0.15661	0.178799
D1, photosystem q(b) protein	Synpcc7942_0424	0.211837	0.5448658	0.677456	0.348604
PsbK, photosystem II PsbK protein	Synpcc7942_0456	-1.4903	-0.16701983	-0.96209	-0.51366
D2, photosystem II D2 protein (photosystem q(a) protein)	Synpcc7942_0655	0.893952	0.59009823	0.26123	0.360505
CP43, photosystem II 44 kDa subunit reaction center protein	Synpcc7942_0656	0.631176	0.4488808	0.210956	0.334423
PsbT, photosystem II PsbT protein	Synpcc7942_0696	0.125003	0.61953516	-0.02394	0.189711
CP47, photosystem II core light harvesting protein	Synpcc7942_0697	0.068476	0.50226635	-0.03055	-0.03905
PsbM, photosystem II PsbM protein	Synpcc7942_0699	1.426437	-0.01543842	1.144134	1.970229
D1, photosystem q(b) protein	Synpcc7942_0893	1.428555	1.18940227	1.13837	1.334412
PsbP, photosystem II oxygen-evolving complex 23K protein	Synpcc7942_1038	-0.22819	-0.07062171	1.310996	1.485383
PsbJ, photosystem II PsbJ protein	Synpcc7942_1174	0.268233	0.39480568	0.371942	0.353395
PsdL, photosystem II protein L	Synpcc7942_1175	0.223092	0.47464484	0.437101	0.338606
cytochrome b559, beta subunit	Synpcc7942_1176	0.240867	0.50263446	0.451831	0.35975
cytochrome b559, alpha subunit	Synpcc7942_1177	0.104512	0.37428953	0.273233	0.161535
D1, photosystem q(b) protein	Synpcc7942_1389	1.610947	1.37614676	1.296572	1.559321
D2, photosystem II D2 protein (photosystem q(a) protein)	Synpcc7942_1637	0.928817	0.62373661	0.273277	0.378819
Psb28, photosystem II reaction center W protein	Synpcc7942_1679	0.093728	0.19496421	-0.28815	1.229412
PsbI, photosystem II PsbI protein	Synpcc7942_1705	-1.32968	0.08985682	-0.88257	-0.82232
PsbU, probable photosystem II 12 kD extrinsic protein	Synpcc7942_1882	-1.27392	0.04969298	-0.45417	-0.72603
PsbY, photosystem II PsbY protein	Synpcc7942_1962	0.419877	-0.2031982	0.371742	-0.74453
PsbV, cytochrome c550	Synpcc7942_2010	-1.43726	0.37012094	-1.06646	-0.75579
PsbX, photosystem II PsbX protein	Synpcc7942_2016	-0.61842	-0.60863257	0.80931	0.228851
PsbZ, putative photosystem II PsbZ protein	Synpcc7942_2245	-1.12616	-0.52334384	-0.67788	-0.42547
Psb28-2photosystem II reaction center W protein	Synpcc7942_2478	1.765135	-0.81519958	0.386634	-0.59372
Antenna					
hypothetical protein	Synpcc7942_0240	-0.91561	-0.29510397	-0.70726	-0.98108
Lc 7.8 apoprotein (core components of the phycobilisomes)	Synpcc7942_0325	-1.53035	0.33867223	-1.83229	-0.68989
allophycocyanin, beta subunit	Synpcc7942_0326	-1.5813	0.1975322	-1.92314	-0.8807
allophycocyanin alpha chain	Synpcc7942_0327	-1.5925	0.19111361	-1.93802	-1.23986

phycobilisome core-membrane linker polypeptide	Synpcc7942_0328	-1.29555	-0.43068237	-1.28261	-1.29778
phycocyanin, beta subunit	Synpcc7942_1047	-1.81818	-0.33078105	-2.31748	-1.41633
phycocyanin, alpha subunit	Synpcc7942_1048	-1.7669	-0.31522685	-2.20848	-1.20384
phycobilisome rod linker polypeptide	Synpcc7942_1049	-1.79977	-0.70992226	-2.20456	-1.01843
phycobilisome rod linker polypeptide	Synpcc7942_1050	-1.78686	-0.8162998	-2.06886	-1.31051
phycocyanin linker protein 9K	Synpcc7942_1051	-1.69794	-0.63837228	-1.8209	-1.35745
phycocyanin, beta subunit	Synpcc7942_1052	-1.8175	-0.33117119	-2.31944	-1.41626
phycocyanin, alpha subunit	Synpcc7942_1053	-1.77472	-0.30482546	-2.19312	-1.20292
PBS lyase HEAT-like repeat	Synpcc7942_1054	-2.90825	0.7090737	-0.53062	-0.47362
phycocyanin alpha-subunit phycocyanobilin lyase	Synpcc7942_1055	-2.39507	0.66766819	-0.54319	-0.53623
phycobilisome rod-core linker polypeptide	Synpcc7942_2030	-2.15287	-0.33734078	-1.39129	-1.08687
allophycocyanin, beta subunit	Synpcc7942_2158	-1.64501	-0.31574501	-1.03251	-1.40366
Cytochrome b6f complex / plastocyanin / cytochrome c553					
cytC, cytochrome C6 soluble cytochrome f	Synpcc7942_0239	-0.17605	1.17569173	0.792095	1.108553
PetN, cytochrome b6-f complex subunit VIII	Synpcc7942_0475	0.497842	0.5959617	1.447403	1.912601
plastocyanin	Synpcc7942_1088	0.322301	0.11764006	-0.42963	-0.64665
PetA, apocytochrome f component of cytochrome b6/f complex	Synpcc7942_1231	0.09712	1.2359576	0.082686	0.955583
PetC, cytochrome b6-f complex iron-sulfur subunit	Synpcc7942_1232	0.304182	1.34792863	0.100069	1.041376
PetG, cytochrome b6-f complex subunit 5	Synpcc7942_1479	1.09945	-0.28701347	-0.83817	0.90951
cytochrome c553	Synpcc7942_1630	-2.6082	-0.47952033	0.189857	-1.24425
PetB, cytochrome b6	Synpcc7942_2331	1.519046	0.48337536	0.717506	1.838373
PetD, cytochrome b6-f complex subunit 4	Synpcc7942_2332	1.173101	0.32185657	0.7321	1.586903
PetM, cytochrome b6-f complex subunit PetM	Synpcc7942_2426	0.799922	0.05117037	0.537732	0.907089
cytC, putative cytochrome C6-2	Synpcc7942_2542	0.107266	-0.04674581	0.630671	1.004781
Photosystem I					
PsaK, photosystem I reaction center subunit X	Synpcc7942_0407	-3.41848	-0.8735737	-1.29002	-2.36866
PsaC, photosystem I iron-sulfurcenter	Synpcc7942_0535	-2.03461	-0.12606666	-0.86146	-1.55722
PsaK, photosystem I reaction center	Synpcc7942_0920	-1.60648	0.35723916	-0.99961	-0.79731
PsaD, photosystem I reaction center subunit II	Synpcc7942_1002	-1.81213	-0.42714887	-0.87011	-1.29053
PsaJ, photosystem I reactionCenter subunit IX	Synpcc7942_1249	-2.77647	-0.03807864	-1.63704	-0.94746
photosystem I reaction center subunit III precursor	Synpcc7942_1250	-2.57921	-0.00431866	-1.56887	-1.7392
PsaE, photosystem I subunit IV psaE	Synpcc7942_1322	-1.50962	-0.60300229	-1.23503	-1.6838
PsaM, photosystem I reaction center subunit XII	Synpcc7942_1912a	-2.80263	-2.10023321	-0.84532	-0.78369
P700, photosystem I core protein PsaB	Synpcc7942_2048	-2.68931	-0.74690729	-0.59541	-1.5006

P700, photosystem I core protein PsaA	Synpcc7942_2049	-2.68093	-0.54073669	-0.6069	-1.59187
PsaL, hypothetical protein	Synpcc7942_2342	-2.2097	0.4702033	-1.25391	-1.97061
PsaI, photosystem I PsaI protein	Synpcc7942_2343	-1.93372	0.05791671	-0.8835	-0.69255
terminal oxidases					
Cbb3-type cytochrome oxidase subunit 1-like	Synpcc7942_0202	0.322605	-0.96405619	3.274053	0.543526
bd, cytochrome d ubiquinol oxidase, subunit II	Synpcc7942_1766	3.937377	1.01249832	4.175888	2.688518
bd, cytochrome oxidase d subunit I	Synpcc7942_1767	3.926603	0.8079232	3.942165	1.65081
CyoE, protoheme IX farnesyltransferase	Synpcc7942_2600	2.08543	0.1219993	4.332181	0.653906
COXII5, putative cytochrome aa3 controlling protein	Synpcc7942_2601	1.950753	-0.04176217	4.787231	1.352073
CoxB, cytochrome c oxidase subunit II	Synpcc7942_2602	1.02515	-0.62093061	3.563003	0.63089
CoxA, Cytochrome-c oxidase	Synpcc7942_2603	0.688677	-0.71597833	3.352295	1.021969
CoxC, cytochrome c oxidase subunit III	Synpcc7942_2604	0.760689	-0.74595895	3.431305	1.970876
F_1F_o ATP synthase					
ATP synthase F0, A subunit	Synpcc7942_0331	-0.65192	1.157586	-0.14345	1.180547
ATP synthase F0, C subunit	Synpcc7942_0332	-0.67141	1.19594395	-0.00243	1.114205
ATP synthase subunit B'	Synpcc7942_0333	-0.95607	1.29659501	0.127147	1.260338
F0F1-type ATP synthase subunit b-like	Synpcc7942_0334	-0.76864	1.39820531	0.377493	1.680956
ATP synthase F1, delta subunit	Synpcc7942_0335	-0.77175	1.54570395	0.422294	1.624452
ATP synthase F1, alpha subunit	Synpcc7942_0336	-0.83134	1.3916197	0.298547	1.171797
ATP synthase F1, gamma subunit	Synpcc7942_0337	-0.7334	1.9103782	0.604202	1.591957
Inorganic diphosphatase	Synpcc7942_1383	-0.14022	1.18986336	-1.42928	1.274063
Polyphosphate kinase	Synpcc7942_1566	-0.66635	0.11398502	0.080646	1.803755
ATP synthase F1, beta subunit	Synpcc7942_2315	-0.55998	1.22421791	0.055039	1.215625
ATP synthase F1, epsilon subunit	Synpcc7942_2316	-0.34989	1.30178869	0.258613	1.263411
carboxysomes					
CcmK3, carbon dioxide concentrating mechanism protein CcmK	Synpcc7942_0284	-0.56625	0.14840705	-0.11793	1.007097
CcmK4, carbon dioxide concentrating mechanism protein CcmK	Synpcc7942_0285	-0.56614	0.48732105	0.216594	1.177719
CcmP, hypothetical protein	Synpcc7942_0520	-0.29457	0.33429121	0.012303	0.931888
Phosphoribulokinase	Synpcc7942_0977	-0.45531	-0.04497927	-0.23054	0.221013
CcmK, putative carboxysome assembly protein	Synpcc7942_1421	-1.06396	-0.55645068	-1.83738	1.214917
CcmL, carbon dioxide concentrating mechanism protein CcmL	Synpcc7942_1422	-0.8793	0.14828278	-2.26231	2.076184
CcmM, Carbonate dehydratase	Synpcc7942_1423	-0.4743	0.75102751	-1.43077	2.189564
CcmN, carbon dioxide concentrating mechanism protein	Synpcc7942_1424	-0.50325	0.65463045	-1.23618	1.944993

CcmO, carbon dioxide concentrating mechanism protein CcmO	Synpcc7942_1425	0.002884	-1.23729321	-0.52043	0.384831
Ribulose-bisphosphate carboxylase	Synpcc7942_1426	-1.28391	-0.41964766	-1.86129	0.490296
Ribulose-bisphosphate carboxylase	Synpcc7942_1427	-1.20666	-0.31970776	-1.73939	1.012715
CcaA, Carbonate dehydratase	Synpcc7942_1447	-1.12089	0.20912556	-0.01497	0.667026
possible Rubisco chaperonin	Synpcc7942_1535	0.20766	-2.15737518	0.708744	-0.20176
Inorganic carbon transport systems					
CupB, CO2 hydration protein	Synpcc7942_0308	-1.1516	-1.03587658	-0.204	-0.56432
NdhF4, NAD(P)H dehydrogenase, subunit NdhF3 family	Synpcc7942_0309	-0.97144	-0.89492938	-0.00325	-1.01291
Inorganic carbon transporter	Synpcc7942_0357	-0.46225	-0.4697632	0.819505	0.138535
NdhD4, proton-translocating NADH-quinone oxidoreductase	Synpcc7942_0609	-0.76174	0.3804916	0.18694	0.025841
BicA, hypothetical protein	Synpcc7942_1430	0.110773	-2.24507878	-0.1219	0.513255
sbtA, sodium-dependent bicarbonate transporter	Synpcc7942_1475	-0.8667	5.54667206	1.620494	0.948097
membrane protein	Synpcc7942_1488	-0.85548	1.48108689	0.816848	0.499831
nitrate transport permease	Synpcc7942_1489	0.156918	1.01505278	1.551452	1.000452
nitrate transport ATP-binding subunits C and D	Synpcc7942_1490	-0.4599	0.2989344	1.152082	-0.03176
nitrate transport ATP-binding subunits C and D	Synpcc7942_1491	-0.73214	-0.77665926	0.552196	-0.91632
NdhF3, NAD(P)H dehydrogenase, subunit NdhF3 family	Synpcc7942_2091	0.062848	3.85934416	1.820511	2.462186
NdhD3, proton-translocating NADH-quinone oxidoreductase	Synpcc7942_2092	0.017371	3.767775	1.903883	2.023634
CupA, CO2 hydration protein	Synpcc7942_2093	0.154739	3.18897002	1.333244	1.711399

Supplemental Table 5 Tab 1

$LogR_2$

low light		elevated salinity		low carbon	
1h	24h	1h	24h	1h	24h
-0.12167	0.928428	-0.23705	0.45319959	0.409171	0.200998
2.439346	0.348257	0.538927	-0.087324	0.453929	0.880127
0.104635	-0.3835	-0.33141	-1.312335	-0.65345	-0.70731
-0.10156	-0.60706	-0.43643	-1.5230674	-0.84444	-0.78331
-0.53891	-0.08116	-0.5139	0.50020461	-0.43125	-0.04597
-0.09405	-0.47298	-0.48327	0.64630357	0.180419	0.474795
0.425645	0.507652	-0.48549	0.4902356	0.627975	0.142358
2.464823	1.4344	0.306611	0.439544	1.128001	0.530698
2.33934	1.538616	-0.29391	0.41608506	1.159176	0.660006
2.172626	1.436527	-0.32293	0.39304601	1.109841	0.536424
3.100228	0.268086	-0.5922	0.42736487	0.948307	0.72364
3.136926	0.380534	-0.44485	0.40555665	1.039449	0.861176
3.054665	0.38739	-0.54701	0.42070587	0.995144	0.683736
3.108771	0.45451	-0.55668	0.63088408	1.256017	0.810701
1.059556	-0.33937	-0.30924	0.9880811	0.763865	0.746144
3.445755	4.948152	-0.55985	2.34765221	2.420411	2.449943
4.968839	0.400329	0.241571	1.22730289	-0.0674	-0.52965
0.582555	-0.79952	0.055482	-0.2948053	-0.81955	-0.26558
2.593917	-0.07654	-0.34738	0.07551484	0.583262	0.326742
0.844219	-0.57962	0.81222	-1.0779902	0.392595	-0.68403
-0.02643	-0.05949	-0.38524	0.83869136	1.160862	0.982859
0.206422	-1.15695	-0.01224	0.05296827	0.705426	0.538094
6.203577	0.050199	-0.50512	1.24579038	0.574647	0.887218
5.867618	-0.14502	-0.39298	1.15972017	0.588713	1.013447
5.194078	-0.32187	-0.3204	0.4504866	0.495417	0.44248

Supplemental Table 5 Tab 1

3.271981	0.008051	-0.12518	0.98275623	0.751653	0.774133
0.852153	1.130466	-0.2877	0.10380193	0.977216	0.61405
-0.49755	0.908019	0.502187	0.00323297	0.952055	0.692807
-0.5351	-0.80549	-0.3321	0.5633035	0.052374	0.663965
-0.45061	1.019183	0.003957	0.19365544	0.974862	0.51137
1.147777	1.00087	0.936067	0.54273685	0.175763	0.995617
-1.02064	-1.00099	0.344106	-0.8245644	0.242396	0.032339
1.025282	0.702655	0.144845	0.65843065	0.439604	1.046784
0.87925	0.642814	0.20541	0.63247221	0.548302	1.11461
0.382998	0.02099	0.236635	0.70970836	0.670842	1.135196
0.431155	0.042934	0.172454	0.72704936	0.620901	1.155686
1.093304	0.982468	0.531145	0.85948666	1.310008	1.307106
1.531277	1.925649	0.88013	1.26297065	0.203711	1.44788
0.060615	0.260211	0.110849	0.49022902	0.90064	0.34142
-0.10392	0.025403	0.129615	0.58718184	0.795754	0.992762
-0.21333	-0.01296	0.004186	0.62522482	0.771483	0.972421
-0.30864	0.041953	0.026131	0.71737949	0.733057	0.932867
-0.39362	-0.0932	0.017904	0.55910794	0.673136	0.931478
1.633785	2.075981	0.874487	1.4507584	0.218846	1.580368
1.057587	0.713306	0.138734	0.67399405	0.435444	1.055863
-0.43236	0.558953	-0.32916	0.40208473	0.77425	0.526164
-0.74725	-1.85855	0.245338	-0.8930476	-0.21726	-0.13128
-0.30846	-1.22324	-0.07454	-0.0086465	0.492011	0.351193
-0.09707	-0.74545	0.38707	-0.2682183	0.650098	0.642195
-1.2163	-1.08325	-0.01819	0.36823422	0.062324	0.092723
0.641359	-0.86893	0.798356	0.07118155	0.313386	0.535352
-0.57976	-0.37048	0.179952	-0.3156101	0.482333	0.323205
0.507991	2.793202	0.551323	-1.0548813	0.548592	0.126066
-0.01109	-0.4119	-0.25363	-0.451378	-0.07928	0.073153
0.149283	-1.58315	0.066043	0.09515434	-0.40605	0.616147
0.031009	-1.63018	-0.08321	0.11886492	-0.52404	0.581949
0.050151	-1.72354	-0.17962	0.07017618	-0.64003	0.486277

Supplemental Table 5 Tab 1

0.206195	-1.00639	-0.35553	-0.5925232	-0.59587	0.312113
-1.21322	-1.35687	0.016426	-0.6324314	0.070463	0.138944
-1.07487	-1.31026	0.208146	-0.5359409	0.19038	0.284142
-1.35777	-1.11655	0.02843	-1.0594558	0.27812	0.248248
-1.20952	-1.07981	-0.04859	-1.0502114	0.375548	0.411686
-1.15385	-1.07702	-0.14559	-0.9559147	0.512401	0.447632
-1.21331	-1.35844	0.016434	-0.6331584	0.069607	0.138042
-1.0635	-1.32012	0.207264	-0.5213016	0.19649	0.286072
-0.45434	-1.88754	-0.1457	0.15859812	0.194275	-0.35391
-0.52808	-1.40338	-0.7512	0.20271559	0.116624	-0.26292
-0.85943	-1.15606	-0.20209	-0.4437161	-0.12979	0.041634
-0.66378	-0.72303	-0.43351	-0.3916983	0.0643	0.055188

0.821808	0.224099	-0.36467	1.11140247	1.547017	0.878384
1.193744	1.700774	0.319411	0.317618	1.486778	0.682417
-0.70345	0.978384	-0.22661	0.2627103	1.026713	1.130166
-0.05669	0.362681	-0.21001	1.45560831	0.883131	1.359918
-0.1121	0.4687	-0.32718	1.53507405	0.918426	1.413975
0.933012	0.12011	-0.19914	-0.1284625	-0.64145	0.540401
0.980976	-1.41982	-0.90381	-0.2640313	0.451618	0.33555
1.318381	1.63503	0.074683	0.83017235	0.743788	1.285969
1.380082	1.287993	-0.00353	0.6079194	0.729138	1.218854
0.173884	0.76972	0.991435	-0.2203585	0.901547	0.418648
0.003785	0.660045	0.194539	0.35147514	1.111018	0.617277

-0.39734	-1.57368	0.375359	-0.9841407	-0.23353	-0.32193
-0.10305	-1.93901	0.052667	-0.0629399	0.552778	0.174736
0.129745	-2.25629	-0.03824	0.33695642	0.511004	0.692297
-0.81883	-0.92217	-0.06057	-0.7677062	0.913049	-0.01229
-0.88876	-1.60081	0.031348	-0.5045028	0.152512	-0.30765
-0.78806	-1.59077	-0.35682	-0.5253299	0.148921	-0.21693
-0.23837	-1.51684	0.256777	-0.6270233	-0.05686	0.229628
-3.76549	-1.32894	-0.0184	-3.1778886	-1.34329	-0.35937
0.405102	-1.69738	0.3458	-0.9253291	-0.21922	-0.49668

Supplemental Table 5 Tab 1

0.344978	-1.67963	0.299479	-0.8167666	-0.13855	-0.43738
-0.20561	-1.88437	0.022741	0.17852636	0.130424	0.577139
-0.62382	-2.04518	-0.0067	-0.1660458	-0.1944	0.084885
2.817128	-0.02129	0.727019	-0.3413772	0.183403	0.719623
2.536023	4.406323	1.539953	1.16697402	3.809005	2.580486
2.438776	4.522541	1.175705	0.73330049	3.556442	2.451688
2.098659	3.552457	1.919615	-0.0189602	2.503786	1.1937
2.38655	3.897888	2.109111	0.5288302	2.66667	1.020248
1.14611	2.205978	1.510316	-0.6699613	1.217453	0.027299
1.044338	2.337935	1.441381	-0.6865465	1.358762	-0.02578
1.141894	2.626092	1.864663	-0.7317077	1.748769	0.064309
-0.6666	-1.12689	-0.60738	1.27507312	0.535283	1.133626
-0.66982	-1.18417	-0.76223	1.52835601	0.777664	1.422511
-0.42053	-1.23894	-0.6613	1.45471025	0.881197	1.064878
-0.07028	-0.85929	-0.58351	1.64472159	1.272363	1.210956
0.037507	-0.62194	-0.48864	1.79559051	1.495954	1.386193
-0.16275	-0.71731	-0.85736	1.55432415	1.182006	1.289137
0.305853	-0.83636	-0.92013	2.02921014	1.675767	1.55899
-0.82799	0.621643	-0.22571	1.37375874	0.095996	0.97575
0.569791	-0.4261	-1.07006	0.02680449	1.140536	0.645932
-0.60228	-0.87324	-0.52509	1.44806225	1.069182	1.077656
-0.28309	-0.70533	-0.63496	1.60014825	1.346315	1.259523
-1.94185	-1.00508	-0.37593	0.6806324	0.321762	0.199212
-1.24638	-0.65454	-0.52576	1.03572789	0.461006	0.487701
-0.45348	-0.05836	-0.40916	0.49863984	0.214222	0.000686
-0.03006	0.718453	-0.77898	0.03466626	0.512493	0.359018
0.534281	-0.8961	-0.60782	0.13903706	0.17502	0.450164
1.297006	-0.62432	-0.88032	0.96209119	1.067465	1.068386
1.973367	-0.00552	-0.95412	1.55667051	1.759831	1.762431
1.576833	-0.11375	-0.91376	1.38157442	1.505528	1.620123

Supplemental Table 5 Tab 1

0.28168	-0.26613	-0.302	-0.7958133	-0.0435	-0.32073
0.29315	-1.19977	-0.7912	0.0086278	0.045388	0.361527
0.356916	-1.23761	-0.49248	-0.0062464	0.127687	0.408291
2.575487	-0.76678	-0.36331	0.29890164	0.158333	0.221609
0.674335	0.970742	-0.26185	-2.2403569	-0.1603	-0.58603

0.104635	-0.3835	-0.33141	-1.312335	-0.65345	-0.70731
-0.10156	-0.60706	-0.43643	-1.5230674	-0.84444	-0.78331
0.471834	-0.03617	-0.45935	0.11084494	0.454018	0.499811
-0.09405	-0.47298	-0.48327	0.64630357	0.180419	0.474795
0.641958	-1.40024	0.094921	-1.5812437	-1.36994	-0.53354
8.04752	-0.87866	-0.66559	-0.8249035	-1.13778	-0.45653
9.277611	-0.63034	-0.828	-1.4338264	-0.61903	-0.57765
7.955684	0.024631	0.151235	0.04447624	0.019293	0.012592
6.81863	-0.3083	-0.00137	-0.2851507	-0.12266	-0.19049
5.392601	-1.27309	-0.34861	-0.9038431	-0.80275	-0.47836
6.203577	0.050199	-0.50512	1.24579038	0.574647	0.887218
5.867618	-0.14502	-0.39298	1.15972017	0.588713	1.013447
5.194078	-0.32187	-0.3204	0.4504866	0.495417	0.44248

		Synechocystis sp. PCC 6803				LogR$_2$		
		low temperature		alkaline pH		low light		elevated
		1h	24h	1h	24h	1h	24h	1h
NADH dehydrogenases (NDH-1 and NDH-2) / succinate dehydrogenase								
NADH dehydrogenase beta subunit	ndhK2	0.326101	0.151361	-0.40527	-0.08667	-0.43193	-1.00061	-2.20538
ndhF4, NADH dehydrogenase subunit L	sll0026	0.194887	0.458596	0.092726	-0.70306	-1.26965	-0.97328	-1.50483
ndhD4, NADH dehydrogenase subunit M	sll0027	0.20511	0.006117	0.196997	-0.55199	-1.27038	-0.82517	-2.05441
ndhB, NAD(P)H-quinone oxidoreductase subunit 2	sll0223	-0.20067	-0.19454	-0.17982	-0.44589	-0.20726	-0.75403	-1.70552
ndhA, NADH dehydrogenase subunit H	sll0519	-0.13332	-0.06764	-0.31976	-0.44989	-0.86526	-1.04829	-2.03518
ndhI, NADH dehydrogenase subunit I	sll0520	0.2496	-0.00491	0.065565	-0.33704	-0.54813	-0.687	-2.15996
ndhG, NADH dehydrogenase subunit J	sll0521	-0.09553	0.099246	-0.10644	-0.41597	-0.98016	-1.08215	-2.10634
ndhE, NADH dehydrogenase kappa subunit	sll0522	0.261862	0.152628	0.046865	-0.31892	-1.03638	-0.99428	-3.03173
succinate dehydrogenase	sll0823	0.196894	-0.33262	0.648741	-0.30251	-1.15322	-1.10274	0.542322
ndhN, hypothetical protein	sll1262	-0.936	-0.34042	-0.14348	-0.85732	-1.07002	-1.08124	-2.12173
NDH-II, NADH dehydrogenase	sll1484	-0.55121	0.215168	-0.84414	-1.18942	-0.98893	-1.35351	0.516497
succinate dehydrogenase	sll1625	-0.54024	0.145045	-0.77972	-1.02078	-0.76856	-1.03302	-1.3824
ndhF3, NADH dehydrogenase subunit L	sll1732	1.401158	-0.53087	1.961286	-0.13001	-0.41837	-0.63068	3.501503
ndhD3, NADH dehydrogenase subunit M	sll1733	1.067891	-0.63826	1.555074	-0.28345	-0.29076	-0.75963	1.965384
CupA, hypothetical protein	sll1734	1.242505	-0.31393	1.754305	-0.24454	-0.59502	-0.55582	2.106635
CupS, secreted protein MPB70	sll1735	0.039292	0.036874	0.463823	-0.41163	-0.87786	-0.6358	0.38462
ndhH, NADH dehydrogenase delta subunit	slr0261	-0.24371	0.084085	0.014317	-0.6157	-1.13809	-0.9968	-0.87061
ndhD1, NAD(P)H-quinone oxidoreductase subunit 4	slr0331	-0.7752	-0.33691	-0.5081	-0.152	0.10773	-0.40747	-3.05068
ndhF1, NADH dehydrogenase subunit L	slr0844	0.12161	0.750187	0.363506	0.077026	-0.11012	-0.35105	-1.88857
NDH-II, NADH dehydrogenase	slr0851	1.002652	3.939478	-0.25247	-0.12723	-0.51175	-0.03636	1.789683
succinate dehydrogenase	slr1233	-0.67583	0.200056	-0.57994	-1.11573	-1.03724	-1.54851	-0.89657
ndhC, NADH dehydrogenase alpha subunit	slr1279	0.2285	0.93659	-0.0753	-0.62574	-1.21087	-1.33667	-1.06397
ndhK, NADH dehydrogenase beta subunit	slr1280	0.281319	0.817294	-0.03967	-0.65495	-1.31359	-1.38936	-1.90668
ndhJ, NADH dehydrogenase subunit J	slr1281	0.012275	0.456102	-0.22653	-0.71805	-1.17874	-1.3158	-1.72835

ndhD2, NAD(P)H-quinone oxidoreductase subunit 4	slr1291	2.895151	3.57693	0.755001	-0.87748	-1.05146	-0.58156	3.06795
CupB, hypothetical protein	slr1302	-0.91285	0.271808	-0.68568	-0.62534	-0.91575	-0.56762	-0.63799
ndhM, hypothetical protein	slr1623	0.291489	0.800667	0.654611	-0.31438	-1.11929	-1.41678	-2.235
NDH-II, NADH dehydrogenase	slr1743	0.411852	1.33741	-0.46979	-0.98726	-0.9673	-0.74066	-0.19192
ndhD5, NADH dehydrogenase subunit N	slr2007	0.559313	-0.56878	1.915913	-0.51573	-0.45043	-0.36272	2.874667
ndhD6, NADH dehydrogenase subunit N	slr2009	0.057671	-0.21319	0.472319	0.169413	-0.17764	-0.1393	0.972218
ndhO, hypothetical protein	ssl1690	-0.78226	0.15745	-0.51185	-0.49765	-0.0775	-0.34043	-0.31867
ndhL, NADH dehydrogenase subunit; NdhL	ssr1386	-0.15061	0.330179	-0.54228	-0.61274	-0.46929	-0.6994	-0.48933
Photosystem II								
iron-stress chlorophyll-binding protein	sll0247	0.568951	0.153665	1.344166	0.140955	0.939741	1.065542	5.462627
cytochrome c550	sll0258	-1.15378	-1.22864	-1.13734	-0.73794	-0.88647	-1.18995	-3.47831
photosystem II manganese-stabilizing polypeptide	sll0427	-0.56996	-0.1622	-0.17021	-0.23009	-0.54507	-0.87353	-2.56253
photosystem II D2 protein	sll0849	0.249017	-0.78358	-0.25126	-0.21258	0.006625	-0.04603	-0.28808
photosystem II CP43 protein	sll0851	0.063477	-1.10548	-0.31225	-0.12016	0.109638	-0.12049	-1.6677
photosystem II complex extrinsic protein precursor PsuB	sll1194	-0.50572	0.419434	0.107167	0.401425	0.211665	0.145324	-1.92545
photosystem II reaction center protein PsbZ	sll1281	-1.00913	-0.38767	-0.59516	-0.93555	-1.41024	-1.2632	-0.28962
photosystem II 13 kD protein	sll1398	-0.57765	-0.43579	-0.49533	-0.99864	-1.48099	-1.43451	-2.66411
hypothetical protein	sll1418	-0.54493	-0.07356	-0.56012	-0.76069	-1.05762	-1.12424	-0.88276
photosystem II D1 protein	sll1867	0.408717	0.172954	-0.20739	-0.64006	-0.44805	-0.06389	0.804336
photosystem II CP47 protein	slr0906	-0.05342	-0.92401	-0.31499	0.188512	0.323609	-0.11814	-2.57234
photosystem II D2 protein	slr0927	0.440803	-0.41588	-0.38865	-0.38318	-0.14946	0.266989	0.837076
photosystem II D1 protein	slr1181	0.350967	0.071862	-0.248	0.035411	0.138761	0.102643	-0.05141
photosystem II D1 protein	slr1311	0.407638	0.168572	-0.20663	-0.63684	-0.44685	-0.0647	0.791361
photosystem II 11 kD protein	slr1645	-0.54946	0.328192	-0.39609	-0.9947	-1.44193	-1.38695	-0.49088
photosystem II protein	slr1739	-0.72145	0.357626	-1.29758	-0.84746	0.201316	0.146448	2.005459
hypothetical protein	slr2034	-0.15414	-0.1276	0.04066	-0.79859	-1.29748	-0.98516	-1.25668
photosystem II reaction center I protein PsbI	sml0001	-0.63436	0.411632	0.061778	-0.07255	-0.25391	-0.29731	-2.98062
photosystem II PsbX protein	sml0002	-1.95878	-1.1762	-0.89467	-0.86613	-0.42359	-0.52279	-2.13124
photosystem II reaction center protein PsbM	sml0003	0.191817	0.105138	0.407943	-0.18618	1.040749	0.563695	0.59587
photosystem II reaction center protein PsbK precursor	sml0005	-0.85638	-0.17566	-0.57368	-0.30905	-0.85349	-0.75395	-1.27662
ycf32 gene product	sml0007	-1.90553	-0.70372	-0.63963	-0.72677	-0.79665	-1.388	-3.32171
photosystem II PsbT protein	smr0001	0.449628	-0.89484	-1.02502	-0.21216	0.295598	-0.40386	-2.16947
cytochrome b559 subunit beta	smr0006	-0.11307	0.008052	0.214052	-0.19963	-0.60819	-0.78474	-2.46571

photosystem II reaction center L	smr0007	-0.71737	-0.20658	-0.18957	-0.59516	-1.03237	-1.01747	-2.38957
photosystem II reaction center protein PsbJ	smr0008	-0.56551	-0.35429	-0.03994	-0.66319	-0.96479	-1.01787	-2.31032
photosystem II PsbN protein	smr0009	1.29392	1.05934	0.104232	-0.21219	-0.21412	0.380323	0.384869
photosystem II reaction center protein PsbH	ssl2598	-0.99498	-0.04862	-0.55423	-0.46972	-0.8091	-0.99097	-2.12701
cytochrome b559 subunit alpha	ssr3451	-0.18669	0.044101	0.141952	-0.42637	-0.72369	-0.91444	-2.27675
Antenna								
allophycocyanin-B	sll0928	-0.78434	-0.39217	-0.13495	-0.15171	0.096401	0.013075	-1.45181
phycocyanin alpha phycocyanobilin lyase; CpcF	sll1051	0.075135	0.268308	0.105428	-1.08202	-1.2597	-1.40239	0.273083
phycobilisome rod-core linker polypeptide; CpcG	sll1471	0.427492	0.61229	-0.26518	0.495597	-1.09709	-0.80793	-7.30342
phycocyanin b subunit	sll1577	-0.4323	-0.95643	-0.26671	-0.33032	-1.43686	-0.75646	-2.51308
phycocyanin a subunit	sll1578	-0.49604	-1.03635	-0.28031	-0.30813	-1.5028	-0.73696	-2.60244
phycocyanin associated linker protein	sll1579	-0.34404	-1.71652	-0.18709	0.019127	-0.86667	-0.08607	-1.42234
phycocyanin associated linker protein	sll1580	-0.13179	-1.45698	-0.09917	0.158686	-0.53469	0.163019	-1.34145
hypothetical protein	sll1663	-0.66385	0.327116	-0.5887	-0.8647	-1.54882	-1.1419	-1.63807
phycobilisome LCM core-membrane linker polypeptide	slr0335	-0.60573	-0.93309	0.077484	0.099508	0.017752	-0.09436	-2.77247
phycobilisome core component	slr1459	-1.84848	-0.86495	-0.86524	-0.83929	-1.18497	-1.41248	-3.79169
phycocyanin alpha phycocyanobilin lyase; CpcE	slr1878	-0.44737	0.053274	-0.58752	-1.02737	-1.87578	-1.61259	-0.14133
allophycocyanin b chain	slr1986	-0.79774	-0.8116	-0.30872	-0.38507	-1.09302	-1.37286	-4.36341
phycobilisome rod-core linker polypeptide; CpcG	slr2051	-1.11925	-1.17957	-0.72242	-0.17624	-0.27709	-0.33058	-4.30263
allophycocyanin a chain	slr2067	-0.8567	-0.75363	-0.41568	-0.47305	-1.16667	-1.48574	-4.3058
phycobilisome degradation protein; NblA	ssl0452	0.191765	2.005599	-0.20405	0.3522	1.115257	0.894253	3.839266
phycobilisome degradation protein; NblA	ssl0453	-1.46626	0.295746	-0.48144	0.000313	0.386909	-0.67515	1.008341
phycocyanin associated linker protein	ssl3093	0.317113	-0.84383	0.515035	0.337199	-0.65046	-0.14248	-1.70349
phycobilisome LC linker polypeptide	ssr3383	-0.80285	-1.63541	-0.70215	-0.6486	-0.52296	-1.08587	-4.33201
Cytochrome b6f complex / plastocyanin / cytochrome c553								
PetE, plastocyanin precursor	sll0199	-3.29267	-0.39353	-2.76202	-0.28491	-2.22559	-2.4134	0.637434
PetC3, cytochrome b6/f complex iron-sulfur subunit	sll1182	-0.3261	1.017679	-0.25838	-0.59226	-0.28849	-0.19435	0.565947
cytochrome; CytM	sll1245	0.931026	0.126054	0.777779	-0.60978	-0.5118	-0.45273	0.996703
PetC1, plastoquinol--plastocyanin reductase	sll1316	-0.69687	-0.5671	-0.69483	-1.04982	-1.66834	-1.66268	-0.37823
PetA, apocytochrome f precursor	sll1317	-0.47931	-0.65926	-0.38578	-0.87759	-1.70004	-1.74642	-0.43431
PetJ, cytochrome c553	sll1796	3.513004	1.989786	4.040795	-0.66364	1.720855	1.024393	-0.5741
PetL, cytochrome b6f complex subunit PetL	sll1994a	1.797519	0.842163	0.97504	-0.08655	0.710609	0.42612	-1.16972

PetB, cytochrome b6	slr0342	0.083088	-0.12947	-0.1129	-0.0436	5.56E-05	-0.28331	-1.51793
PetD, cytochrome b6-f complex subunit 4	slr0343	-0.10546	-0.39247	-0.18883	0.002761	0.16708	-0.01498	-1.97449
PetC2, cytochrome b6/f-complex iron-sulfur protein	slr1185	0.965341	1.48281	-0.53031	-1.40318	-0.30827	-1.01096	-0.05929
PetN, hypothetical protein	sml0004	0.212583	0.742625	-0.0864	-0.25655	0.176296	-0.57385	0.567296
PetM, cytochrome b6-f complex subunit; PetM	smr0003	-0.49529	0.337313	0.074468	-0.4201	-0.31917	-0.57388	-1.7547
PetG, cytochrome b6-f complex subunit V	smr0010	-0.48632	-0.33687	-0.11818	-0.10684	-0.00931	0.089097	-0.54522
Photosystem I								
photosystem I assembly protein Ycf4	sll0226	-0.38989	0.136195	-0.14041	-0.67771	-0.79257	-0.88069	-0.01983
photosystem I subunit X	sll0629	-0.69583	-0.29924	0.02489	0.167235	-0.84838	-1.14091	-2.08482
BtpA	sll0634	-0.54226	0.120096	-0.40405	-0.74936	-1.19333	-1.05255	-2.04042
photosystem I subunit III	sll0819	-1.18612	-0.87428	-0.64701	0.290469	0.221885	-0.22108	-4.93041
ycf37 gene product	slr0171	0.682552	0.762633	0.834468	-0.10161	-0.28728	-0.14035	-0.31839
photosystem I subunit II	slr0737	-2.79287	-1.46034	-1.91266	-0.54628	-0.88113	-1.18784	-5.60711
photosystem I assembly protein Ycf3	slr0823	-0.56853	-0.37739	-0.13012	-0.63119	-0.9921	-0.72641	-1.77167
photosystem I reaction center protein subunit XI	slr1655	-1.42372	-0.95949	-0.86718	-0.45222	-0.50805	-0.87269	-3.91891
P700 apoprotein subunit Ia	slr1834	-0.57735	-1.68078	-0.51124	0.120626	0.623675	0.236766	-2.65766
P700 apoprotein subunit Ib	slr1835	-0.55665	-2.07528	-0.62829	0.068592	0.686614	0.324599	-2.5416
photosystem I reaction center subunit IX	sml0008	-0.65483	-0.76361	-0.08366	0.607597	0.862401	0.399408	-4.49594
photosystem I subunit VIII	smr0004	-0.78027	-0.91363	-0.23984	-0.03472	0.413474	-0.16414	-4.07253
photosystem I PsaM subunit	smr0005	0.140111	1.390966	0.312991	0.253523	-0.58382	-0.44969	-0.72658
photosystem I subunit VII	ssl0563	-1.45475	-0.55901	-0.93854	0.009418	-0.33106	-0.64813	-3.49356
photosystem I subunit X	ssr0390	-2.85119	-1.8536	-1.11968	-0.37859	-1.19442	-1.62786	-5.05313
photosystem I reaction center subunit IV	ssr2831	-2.17936	-0.86163	-1.19404	-0.24806	0.062109	-0.4291	-4.75194
terminal oxidases								
bd, cytochrome oxidase d subunit I	slr1379	0.607459	1.071396	0.106597	0.310322	0.081526	0.114317	-1.89538
bd, cytochrome oxidase d subunit II	slr1380	0.712613	0.929729	-0.06318	0.241117	0.011934	0.253082	-1.47603
cytochrome c oxidase subunit I	slr1136	0.461239	1.175789	-0.40865	-0.73019	-0.44622	-1.10596	-1.79951
cytochrome c oxidase subunit II	slr1137	0.503068	0.504808	-0.483	-0.60425	-0.2225	-0.79264	-2.10767
cytochrome c oxidase subunit III	slr1138	0.893012	0.915771	-0.19821	-0.4998	-0.30546	-0.91633	-2.1026
cytochrome c oxidase subunit II	slr2082	-0.02411	0.384886	-0.37978	-0.72184	-0.6246	-0.97013	-2.87277
cytochrome c oxidase subunit I	slr2083	-0.21998	0.011018	-0.3977	-0.88833	-0.97663	-1.58148	-3.03908
cytochrome c oxidase subunit III	sll0813	-0.2954	0.30029	-0.38396	-0.54693	-0.43833	-0.57817	-0.99979

protoheme IX farnesyltransferase	sll1899	0.26163	0.698007	-0.8338	-1.15502	-0.96158	-1.3923	-2.31231
F_1F_o ATP synthase								
polyphosphate kinase	sll0290	0.253343	0.727803	-1.56786	-0.78687	-1.62706	-0.97698	-1.17836
ATP synthase subunit A	sll1322	0.469035	0.524533	0.34288	-0.39672	-0.80397	-0.99493	-3.2922
ATP synthase subunit B	sll1323	0.518995	-0.20206	0.764349	-0.21502	-1.39667	-1.57054	-3.4861
ATP synthase subunit B	sll1324	0.577934	-0.48632	0.954524	-0.14092	-1.39977	-1.65219	-3.60902
ATP synthase subunit D	sll1325	0.849749	-0.39109	1.225473	0.129563	-1.13828	-1.39488	-2.50244
ATP synthase subunit A	sll1326	0.754601	-0.27219	1.093949	0.083395	-1.07245	-1.288	-2.33837
ATP synthase subunit C	sll1327	0.4911	-0.16391	0.85318	-0.05769	-1.21713	-1.4562	-3.1169
ATP synthase subunit B	slr1329	0.317615	0.145832	0.703623	-0.22809	-1.79075	-1.63983	-2.16108
ATP synthase subunit epsilon	slr1330	0.523823	0.211293	0.787037	-0.14596	-1.90817	-2.02151	-2.01148
inorganic pyrophosphatase	slr1622	-0.13382	1.342648	0.545735	-0.84304	-2.16793	-1.88767	-2.64605
ATP synthase subunit C	ssl2615	0.147111	0.369062	0.4493	-0.25082	-1.11065	-1.41759	-4.38132
carboxysomes						-43,+2	-47,+2	
CcmA, 3-deoxy-7-phosphoheptulonate synthase	sll0934	-0.24615	-0.45833	0.175728	-0.21778	-0.42294	-0.6343	0.0251
CcmK, carbon dioxide concentrating mechanism protein; CcmK	sll1028	0.450701	-0.47314	-0.0598	-1.41574	-2.33997	-2.50255	-2.30811
CcmK, carbon dioxide concentrating mechanism protein; CcmK	sll1029	0.276148	-0.20194	-0.19875	-1.21808	-2.0921	-2.17186	-1.55389
CcmL, carbon dioxide concentrating mechanism protein; CcmL	sll1030	0.564873	-0.34366	0.090284	-1.21569	-2.14111	-2.35848	-2.11993
CcmM, carbon dioxide concentrating mechanism protein; CcmM	sll1031	0.577237	-0.42471	0.258814	-0.95692	-2.19693	-2.31851	-1.66705
CcmN, hypothetical protein	sll1032	0.531773	-0.51057	-0.05452	-1.20369	-2.24063	-2.44075	-2.08358
glyceraldehyde-3-phosphate dehydrogenase	sll1342	-0.38118	0.021987	0.121775	-0.60431	-1.51997	-1.4195	-1.84643
phosphoribulokinase	sll1525	-0.01803	0.076799	0.659518	-0.35576	-0.89349	-1.11954	0.016521
Rubisco, methionine sulfoxide reductase A	slr0009	1.072354	0.084885	0.603168	-0.19081	-1.2276	-1.53764	-1.9276
Rubisco, ribulose bisphosphate carboxylase small subunit	slr0012	1.0451	0.028442	0.724914	0.012028	-0.75592	-1.36494	-2.27745
carbonic anhydrase	slr0051	-0.48631	0.607645	-0.67181	-0.82706	-0.86187	-0.69302	-1.05559
CcmP, hypothetical protein	slr0169	0.150003	0.843238	-0.27686	-0.65482	-1.02263	-0.84936	0.64086
CcmO, carbon dioxide concentrating mechanism protein; CcmK	slr0436	-0.00987	0.440381	-0.34215	-0.82507	-0.47142	-0.09865	1.974829
triosephosphate isomerase	slr0783	0.412909	0.433609	1.077229	-0.42289	-1.4527	-1.2886	-1.41733
CcaA, carbonic anhydrase	slr1347	-0.14621	-0.20477	-0.22809	-0.67162	-1.16765	-0.97798	-0.08031
CcmK3, carbon dioxide concentrating mechanism protein; CcmK	slr1838	-0.726	0.097132	-0.52515	-0.93147	-1.2439	-1.26882	-0.66838
CcmK4, carbon dioxide concentrating mechanism protein; CcmK	slr1839	0.058061	0.474539	-0.02444	-1.05903	-1.38164	-1.34446	-1.65711
Inorganic carbon transport systems								

ndhF4, NADH dehydrogenase subunit L	sll0026	0.194887	0.458596	0.092726	-0.70306	-1.26965	-0.97328	-1.50483
ndhD4, NADH dehydrogenase subunit M	sll0027	0.20511	0.006117	0.196997	-0.55199	-1.27038	-0.82517	-2.05441
ndhF3, NADH dehydrogenase subunit L	sll1732	1.401158	-0.53087	1.961286	-0.13001	-0.41837	-0.63068	3.501503
ndhD3, NADH dehydrogenase subunit M	sll1733	1.067891	-0.63826	1.555074	-0.28345	-0.29076	-0.75963	1.965384
CupA, hypothetical protein	sll1734	1.242505	-0.31393	1.754305	-0.24454	-0.59502	-0.55582	2.106635
CupS, secreted protein MPB70	sll1735	0.039292	0.036874	0.463823	-0.41163	-0.87786	-0.6358	0.38462
cmpA, bicarbonate transporter	slr0040	1.366639	-0.09249	-0.97087	-1.56403	-0.30501	-0.57381	0.714927
cmpB, hypothetical protein	slr0041	1.877749	-0.80117	0.045317	-1.67256	-0.09665	-1.57438	-1.90742
cmpC, hypothetical protein	slr0042	0.680828	0.33116	-0.311	-0.51572	0.32781	0.068998	0.817615
cmpD, nitrate transport protein; NrtC	slr0043	0.132128	-0.1348	-0.41265	-0.37314	-0.58554	-0.79757	-0.69375
nitrate transport protein; NrtD	slr0044	0.259265	-0.07874	-0.4401	-0.58195	-1.04241	-0.68933	-1.32577
CupB, hypothetical protein	slr1302	-0.91285	0.271808	-0.68568	-0.62534	-0.91575	-0.56762	-0.63799
sbtA, hypothetical protein	slr1512	1.929732	0.502756	2.055249	0.059545	-0.1069	-0.46552	-0.41439
bicA, hypothetical protein	slr1515	-0.57211	0.107055	-0.42996	-0.63396	-0.75664	-0.40734	0.0754

Supplemental Table 5 Tab 2

l salinity	low carbon	
24h	1h	24h
-0.63579	-0.27863	-1.29082
-0.66835	-0.1239	-1.34106
-0.61361	0.023226	-1.14802
-0.26028	-0.09557	0.934976
-0.18806	-0.02739	1.022003
-0.01706	0.202919	1.001151
-0.408	0.013973	0.553428
-0.12086	-0.03763	0.471663
-1.02744	0.143364	-0.97242
-0.84718	-0.04635	-0.23664
-0.26282	-0.63004	-1.07997
-0.84359	-0.66625	-0.81455
-0.58609	0.455467	4.603174
-0.76736	-0.13746	3.784577
-0.04059	0.181307	3.655502
-0.9576	-0.13437	1.531538
-0.31342	-0.15708	0.344865
-0.33167	-0.21172	-0.44733
0.522606	0.098072	-0.55619
1.970405	0.036383	-0.03813
-0.30679	-0.47851	-0.35379
0.094864	0.046916	1.270969
0.209297	0.002426	0.651065
0.08981	-0.05094	0.664915

Supplemental Table 5 Tab 2

1.68391	0.953862	1.181429
-0.44803	-0.57828	-1.07159
0.091429	0.522931	-0.42939
0.100997	-0.53947	0.036378
-0.96311	-0.14961	0.965706
0.278941	-0.06211	0.30979
-0.64763	-0.16641	0.022424
-0.27822	-0.3928	0.062652
0.910853	0.526032	-0.11184
-0.71879	-0.39495	-2.27345
0.020657	0.202049	-2.53794
0.063377	0.051357	0.064721
0.099302	-0.08401	-0.48838
0.30865	0.373354	-0.3368
-0.73804	-0.2983	-2.38162
-0.73094	-0.2253	-2.21795
-0.43634	-0.34764	-0.98879
0.142243	0.218229	1.374671
0.021835	0.122534	-0.59849
-0.05233	-0.00079	0.873911
0.660753	0.059603	0.958525
0.138861	0.219039	1.373936
-0.7155	-0.49528	-1.51764
0.598401	-0.69426	0.24796
-0.42671	-0.14028	-1.00204
-0.00278	0.37493	-1.60224
-0.78439	-0.7895	-1.17271
0.653651	0.194119	0.366245
-0.66855	-0.01513	-1.31305
-1.76142	-0.5859	-0.87677
-1.17129	-1.35843	0.292226
-0.0889	0.472719	-1.47721

Supplemental Table 5 Tab 2

-0.4296	-0.04681	-1.5779
-0.48389	0.213094	-1.52386
0.150613	0.465938	-0.20084
-0.51417	-0.11183	-1.75113
-0.2551	0.411984	-1.60109
-0.41042	-0.07837	-1.23922
-0.59905	-0.18286	-1.34761
-0.82243	0.31561	-2.55069
-0.24096	0.017792	-2.82045
-0.22254	0.030781	-2.78791
-0.00738	0.164613	-2.04864
0.073383	0.250317	-1.7729
-0.86751	-0.62449	-1.06492
0.306602	0.175676	-1.68262
-0.79065	-0.40092	-2.18404
-0.88168	-0.86898	-1.23994
-0.19035	0.056022	-3.2606
-0.56126	-0.01144	-1.73919
-0.26763	-0.00783	-3.26325
1.264176	-0.20649	2.126052
-0.56668	-0.3183	0.056444
-0.02544	0.609977	-1.53867
-0.48813	-0.06195	-2.89528
-0.57037	-1.74873	-2.0733
-0.00667	-0.06602	0.213474
-0.67155	0.040668	0.35139
-0.2473	-0.38822	-2.19315
-0.21623	-0.19855	-2.03917
2.213368	3.253389	0.327218
0.343312	0.641642	-0.37067

Supplemental Table 5 Tab 2

0.509643	0.18498	-0.16123
0.300845	0.095163	-0.06304
0.161808	-0.32609	-0.49628
-0.39369	-0.62153	0.366255
-0.6161	0.432401	-1.88862
-0.18859	0.252945	-0.11443
-0.67938	-0.40374	-1.19825
-0.29037	0.005379	-2.06938
-0.69988	-0.4516	-1.18189
-0.27372	-0.15607	-1.5707
-0.0867	0.393289	-0.46818
-0.61	-0.9601	-2.83344
-0.67128	-0.2089	-0.41486
-0.63798	-0.25418	-2.57103
-0.25719	-0.1836	-0.62805
-0.14593	-0.21968	-0.91402
-0.08904	0.144013	-1.28195
-0.2637	0.373252	-2.0693
0.403592	0.154467	-1.26153
-0.52158	-0.36843	-2.08341
-1.3682	-0.82734	-2.74011
-1.28589	-0.47278	-1.83101
1.673033	0.516673	0.090731
1.598977	0.311725	0.161685
0.850481	0.100036	-0.46501
0.950385	0.053767	-0.36336
0.919047	0.341072	-0.52467
-0.04527	0.003066	-0.54701
-0.3245	-0.16237	-0.87813
-0.2357	-0.16251	-0.3183

Supplemental Table 5 Tab 2

0.03149	-0.15513	-0.61425
0.571608	0.116415	-1.44403
-0.17757	0.137582	-2.12464
0.12697	0.160628	-2.37744
0.305477	0.166778	-2.41718
0.519975	0.461934	-2.16259
0.540886	0.48587	-2.31306
0.289936	0.286887	-2.21591
0.113452	0.216232	-2.28312
0.231013	0.224459	-2.58623
-0.33488	0.266651	-2.09452
-0.05624	0.159971	-2.51774
-0.14504	-0.43709	-0.03643
-0.83009	-0.1338	-1.75154
-0.89139	-0.19665	-1.45423
-0.66619	0.007249	-1.41871
-0.44008	0.020431	-1.3724
-0.63209	-0.24711	-1.51742
-0.63171	-0.10408	-1.98507
-0.22107	0.231585	-1.19519
-0.18006	0.364052	-0.1028
-0.20976	0.517218	-0.02202
0.005861	-0.33811	-0.37223
-0.0494	-0.58811	-1.26225
-0.12851	-0.51554	0.233474
-0.39197	0.099845	-2.01917
-1.09525	-0.33669	-0.75324
-1.10819	-0.43368	-1.47716
-1.21922	-0.17242	-2.10063

Supplemental Table 5 Tab 2

-0.66835	-0.1239	-1.34106
-0.61361	0.023226	-1.14802
-0.58609	0.455467	4.603174
-0.76736	-0.13746	3.784577
-0.04059	0.181307	3.655502
-0.9576	-0.13437	1.531538
-1.03512	-0.43434	6.59133
-2.30223	-0.45793	6.202161
-0.00409	-0.19884	4.354178
-0.14087	-0.40905	2.743453
-0.70952	-0.3462	2.844979
-0.44803	-0.57828	-1.07159
-0.96718	0.863896	4.017144
0.088915	-0.4654	-0.1837

Supplemental Table 5 Tab 3

Low Temp

	1 hr 6803	24 hr 6803	1 hr 7942	24 hr 7942
NADH/sdh	+[1]	+		+
Cytochrome				+
Term Oxid			+	
ATP Synth				+
Total Respiration		+	+	+
PS-I	-	-	-	
PS-II	-			
Antenna	-	-	-	
Cytochrome				+
ATP Synth				+
Total Phot	-	-	-	
	-P	+R/-P	+R/-P	+R
Carboxysome			-	
Inorg C tra	+			+

High pH

	1 hr 6803	24 hr 6803	1 hr 7942	24 hr 7942
NADH/sdh	+[1]	-	+	+
Cytochrome				+
Term Oxid			+	+
ATP Synth				+
Total Respiration		-	+	+
PS-I	-		-	-
PS-II			+	+
Antenna			-	-
Cytochrome				+
ATP Synth				+
Total Phot	-		-	-
	-P	-R	+R/-P	+R/-P
Carboxysome		-	-	+
Inorg C tra	+		+	+

	1 hr 6803
NADH/sdh	-
Cytochrome	
Term Oxid	
ATP Synth	-
Total Resp	-
PS-I	
PS-II	-
Antenna	-
Cytochrome	
ATP Synth	-
Total Phot	-
	-R/-P
Carboxyso	-
Inorg C tra	-

High Salinity

	1 hr 6803	24 hr 6803	1 hr 7942	24 hr 7942
NADH/sdh	-			
Cytochrom	-			+
Term Oxid	-		+	
ATP Synth	-		-	+
Total Resp	-			+
PS-I				
PS-II	-			
Antenna				
Cytochrom	-			+
ATP Synth	-		-	+

Low Carbon

	1 hr 6803	24 hr 6803	1 hr 7942	24 hr 7942
NADH/sdh		+[1]	+	
Cytochrome		-	+	+
Term Oxid			+	+
ATP Synth		-	+	+
Total Respiration			+	+
PS-I		-		
PS-II		-		+
Antenna		-		
Cytochrome		-	+	+
ATP Synth		-	+	+

Supplemental Table 5 Tab 3

Total Phot	-		+	**Total Photosynthesis**	-		+
	-R/-P		+R/+P		**-P**	+R	+R/+P
Carboxyso	-	-	+	Carboxysome	-	+	+
Inorg C trans			-	Inorg C trans	+		

Note: + or - for non-totals means that the net # genes up or down regulated was at least 3. For totals, it is net effect of components signs.
Note: cytochromes and ATP synthase are listed twice, because they are used in both electron transport chains.
red = upregulation of respiration and downregulation of photosynthesis (Fig 3B)
blue = downregulation of both photosynthesis and respiration
brown = downregulation of photosynthesis only
green = upregulation of respiration only
black = not classified conditions
[1] includes ndhD3, ndhF3 and is ignored (see text)

Supplemental Table 5 Tab 3

Low Light		
24 hr 6803	1 hr 7942	24 hr 7942
-	+	+
-	+	+
-	+	+
-		-
-	+	+
-		-
-	+	
-	-	-
-	+	+
-		-
-	-	-
-R/-P	+R/-P	+R/-P
-	+	-
	+	