



Single-Cell Genomics Reveals Organismal Interactions in Uncultivated Marine Protists

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Single-Cell Genomics Reveals Organismal Interactions in Uncultivated Marine Protists

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Whole-genome shotgun sequence data from three individual cells isolated from seawater, followed by analysis of ribosomal DNA, indicated that the cells represented three divergent clades of picobiliphytes. In contrast with the recent description of this phylum, we found no evidence of plastid DNA nor of nuclear-encoded plastid-targeted proteins, which suggests that these picobiliphytes are heterotrophs. Genome data from one cell were dominated by sequences from a widespread single-stranded DNA virus. This virus was absent from the other two cells, both of which contained non-eukaryote DNA derived from marine Bacteroidetes and large DNA viruses. By using shotgun sequencing of uncultured marine picobiliphytes, we revealed the distinct interactions of individual cells.

Culture-independent analyses of environmental ribosomal DNA (rDNA) clone libraries and metagenomes can uncover unexpected microbial species and gene diversity (e.g., 1–3). These methods cannot, however, re-

veal in situ interactions among organisms. To achieve this level of resolution, genome data from single cells captured from the wild environment are needed. We used single-cell genomics (4–7) to study the marine plankton group Picobiliphyta,

recently described as a previously unknown lineage of pigmented eukaryotes with a phylogenetic affinity to cryptophytes and katablepharids (8, 9). The cells were originally identified microscopically with the use of 18S rDNA-based fluorescent in situ hybridization probes. Although their ultrastructure is unknown, previous studies using autofluorescence and 4',6-diamidino-2-phenylindole staining data (9, 10) appeared to show that picobiliphytes contain a plastid derived from a cryptophyte alga (owing to the presence of phycobilin proteins; hence the phylum name) and the associated remnant nucleus (nucleomorph). These taxa have not yet been successfully cultivated, leaving open the possibility that the plastid and nucleomorph may not be permanent acquisitions but rather come from a klepto-plastid or a cryptophyte alga

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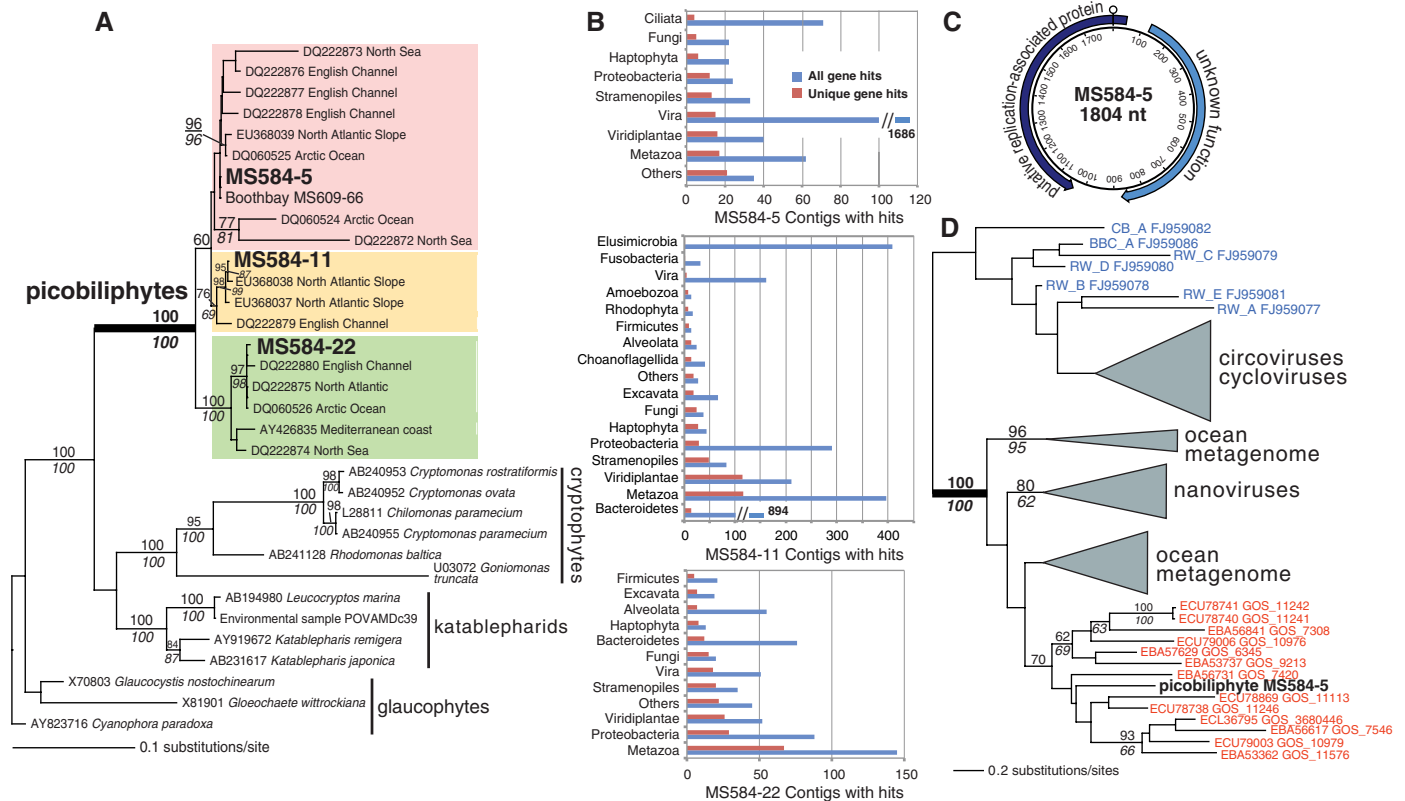


Fig. 1. (A) Randomized accelerated maximum likelihood (RAXML) phylogenetic tree of picobiliphyte SSU rDNA coding regions. RAXML bootstrap values are above the branches, and those derived from maximum parsimony (when nodes are shared) are below the branches. Only bootstrap values $\geq 60\%$ are shown. Sequenced genomes are in bold. GenBank numbers are shown for each taxon. (B) Analysis of the taxonomic distribution of BLASTx hits using as query the 454-derived contigs from each SAG assembly (when ≥ 10 ; if ≤ 10 , the different hits were grouped under "Others"). The total number of hits (blue bars) and the unique gene hits (red bars) are shown for MS584-5, MS584-11,

and MS584-22. Some taxa are overrepresented, such as virus hits in MS584-5 and Bacteroidetes in MS584-22 that are probably explained by MDA bias. (C) Genome structure of the previously unknown ssDNA virus. (D) Simplified RAXML tree of Rep proteins from representative ssDNA viruses, showing the phylogenetic position of the MS584-5 sequence. Rep from marine ssDNA viruses is shown in blue, whereas sequences derived from ocean metagenome data are shown in red. The bootstrap values (when $\geq 60\%$) above the branches are from RAXML, whereas those below are from PhyML. The full tree is shown in fig. S2A.

captured as food. Picobiliphytes are distributed in variable physicochemical habitats (4 to 89 m in depth, 5° to 30°C in temperature) over broad geographical ranges from the Arctic Ocean to the Sargasso Sea and the Mediterranean coast (8, 9, 11).

We used fluorescence-activated cell sorting to separate individual heterotrophic (lacking chlorophyll fluorescence) protist cells <10 μm in diameter from a single 50-ml seawater sample collected at Boothbay Harbor in the Gulf of Maine. The temperature, amount of chlorophyll, and composition of the microbial community were typical for midsummer at this site (table S1). After whole-genome amplification using multiple displacement amplification (MDA), the taxonomic identity of each single-cell amplified genome (SAG) was determined by sequencing the 18S rDNA gene. Of 35 protist SAGs that were analyzed, 6 (17%) were picobiliphytes (12) representing three evolutionarily divergent clades, all of which have been previously regarded as photosynthetic (Fig. 1A). The finding of picobiliphytes in the heterotrophic fraction is consistent with the results of another study of 109 SAGs derived from fluorescent and nonfluorescent protists isolated from Boothbay Harbor (table S2). In that analysis of SAG rDNA sequences, picobiliphytes were present only among cells that lacked chlorophyll fluorescence.

Shotgun sequencing of picobiliphyte SAGs MS584-5, MS584-11, and MS584-22 was done using Roche 454 FLX Titanium series reagents and resulted in ~90 mega-base pairs (Mbp) of in-

dividual reads and ~5 Mbp of assembled contigs per SAG (table S3). A BLASTx analysis of contigs (Fig. 1B) and unassembled singletons (fig. S1A) revealed many top hits in different eukaryotes. For MS584-5, the majority [85%; 1686 out of 1995 (1686/1995)] of total contig hits were to viral genes. To reduce the impact of possible amplification bias introduced by MDA (7, 13), we reduced the picobiliphyte lists to unique gene hits in each phylum. This was done by reducing multiple hits to the same protein within a single species in our database (table S4) to a single entry. This assumed that each of the duplicated hits represented the same DNA fragment that was overrepresented because of MDA bias. This procedure reduced the overrepresentation of sequences from particular phyla [for example, Elusimicrobia (408 hits to a PBSX phage terminase in *Elusimicrobium minutum* Pei191) and Bacteroidetes in MS584-11] and increased the relative number of hits to Metazoa, Viridiplantae, and Stramenopiles (Fig. 1B and fig. S1A).

Taxonomic analysis of MS584-5 contigs indicated that this SAG contains a previously uncharacterized virus absent in the other two cells (fig. S1A). The assembled genome of this virus (1804 nt; Fig. 1C) was used in a BLASTx search against the NCBI RefSeq viral repository. This showed that the genome encoded a putative replication-associated protein (Rep), with all 58 hits being to Rep proteins in single-stranded DNA (ssDNA) nanoviruses of plants and circoviruses of animals.

The top hit was the Rep protein in the Faba bean necrotic yellows virus [expect (*e*) value that by chance another alignment exists with a higher probability = 6.00×10^{-24} ; see fig. S1B]. A BLASTn analysis of the individual 454 reads derived from MS584-5 using the assembled viral genome sequence as a query identified 109,748 reads (46.2% of the total data from this SAG) with an *e* value $\leq 1 \times 10^{-20}$, consistent with the large number of virus-derived contigs in this cell. The sequence coverage across this genome was relatively uniform (mean = 22740; standard deviation = 3396). Given the high abundance of shotgun reads spanning the entire genome of a single “nanovirus” genotype in picobiliphyte MS584-5, our data probably indicate virus infection captured in situ by single-cell sequencing. The MS584-5 Rep protein shares no similarity with plasmids of the red alga *Porphyra pulchra* or ssDNA viruses of diatoms (14, 15) or organelle DNA. The virus is larger than any characterized nanovirus genome segment and has a second open reading frame in the opposite sense to Rep (Fig. 1C). Analysis of the Global Ocean Survey metagenome data (16) showed that related Rep protein sequences are abundant in the ocean (Fig. 1D).

Contig and singleton BLASTx hits to non-eukaryote DNA from MS584-11 included marine Bacteroidetes, Proteobacteria, and Firmicutes (Fig. 1B and fig. S1A). MS584-22 harbored a diverse range of larger double-stranded DNA viruses, phages, and Proteobacteria (Fig. 1B and

Fig. 2. (A) Analysis of the taxonomic distribution of unique BLASTx hits (blue bars) using as query the contigs from the 454 + Illumina assembly of MS584-11. Only phyla with >100 hits are shown. The red bars show the phylogenetic distribution of MS584-11 proteins in PhyML trees at aLRT ≥ 0.90 . The value at the right of the bars is the total number of proteins representing each phylum in our database. **(B)** Simplified phylogeny inferred with Bayesian inference, showing the phylogenetic position of picobiliphytes. This tree was built using a concatenated alignment (2594 amino acids) comprising the nuclear proteins actin, alpha-tubulin, beta-tubulin, heat shock protein 90, cytosolic heat shock protein 70, ribosomal protein L3, and 265 proteasome non-ATPase regulatory subunit. Bayesian posterior probability values are shown above the branches, whereas RAXML bootstrap values (when $\geq 60\%$) are shown below. The full tree is shown in fig. S2B.

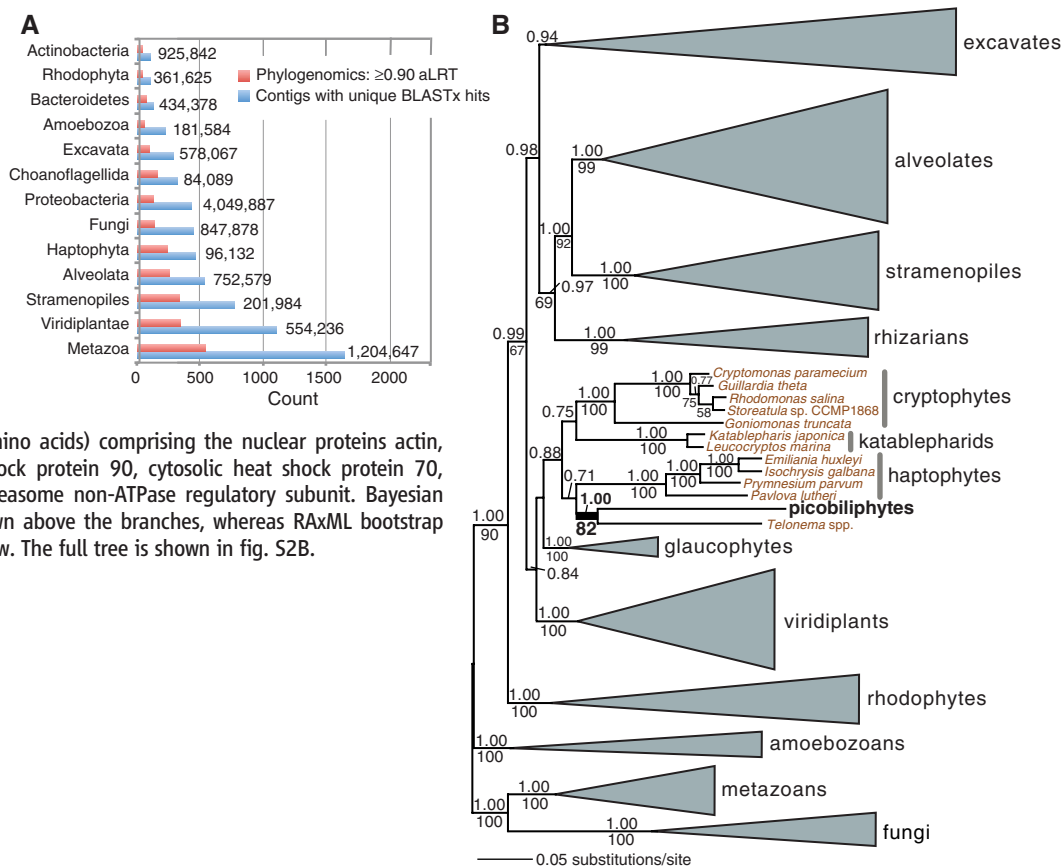


fig. S1A). Presumably, the picobiliphytes feed on Proteobacteria, Bacteroidetes (some apparently phage-infected), and large DNA viruses (17), although attachment of viral and bacterial DNA to the picobiliphyte cell surface cannot be ruled out with our approach.

To address the possibility that the picobiliphytes we studied might contain a plastid (9) and were sorted as heterotrophs because of a loss of autofluorescence as a result of damage caused by photobleaching, we searched the SAG data for hits to plastid- and mitochondrion-encoded proteins. BLASTx analysis identified 62, 3646, and 102 hits to mitochondrial proteins in the sequence reads from MS584-5, MS584-11, and MS584-22, respectively, but failed to recover plastid proteins (contig hits are shown in table S5). We then generated an additional ~3 Gbp of data from MS584-11 using an Illumina GAIIx sequencer. These data (29.3 million paired-end reads) were coassembled with the existing 454 data, resulting in ~28 Mbp of contigs. Assessment of the two sets of sequence data showed that 94% of the 454 data mapped (at ≤ 3 mismatches in a 53-bp sliding window of comparison) to the Illumina reads. BLASTx analysis of the combined assembly again failed to identify plastid DNA. As a final step, we generated ~9 Gbp of Illumina data from MS584-22 and used BLASTx to search the assembled ~27 Mbp of contigs for hits to plastid genes; none were found except for a hit to a site-specific DNA endonuclease and to a hypothetical protein that are plastid-encoded in two different green algae (table S6). To assess our ability to identify plastid genes in a SAG-MDA sample, we examined Illumina data derived from a photosynthetic amoeba, *Paulinella chromatophora* [for details, see (S24)]. This analysis showed that over one-half of the *P. chromatophora* plastid-encoded genes could be successfully retrieved with BLASTx.

The 454 + Illumina draft genome assembly for MS584-11 afforded assessment of the level of gene homology between the poorly understood picobiliphytes and other eukaryotes. The MS584-11 data were initially analyzed with BLASTx to determine the number of hits of MS584-11 contigs to the total set of predicted proteins in the sequenced genomes of brewer's yeast *Saccharomyces cerevisiae* S288c and the model diatom *Phaeodactylum tricorutum* CCAP 1055/1. Using the cutoff e value $\leq 1 \times 10^{-5}$, 1866/5863 (31.8%) and 2792/9488 (29.4%) of proteins in the yeast and the diatom, respectively, had hits to picobiliphyte contigs. This suggests that ~2000 picobiliphyte proteins shared detectable similarity with sequences in other eukaryotes. We searched annotations for all diatom protein hits to the picobiliphyte data, now at the more stringent e value $\leq 1 \times 10^{-10}$ (1687 proteins) for putative nuclear-encoded plastid-targeted proteins in MS584-11. This analysis turned up a weak hit to a putative chloroplast-targeted nuclear-encoded recombinase and a plastidic inositol phosphatase in *P. tricorutum* (GenBank identification nos. 21911175 and 219110535, respectively). The picobiliphyte recombinase homolog was, how-

ever, of bacterial origin, and the inositol phosphatase was of eukaryotic provenance but related to nonplastidic forms of the enzyme. A BLASTx analysis of the MS584-11 contigs against our local database (Fig. 2A) found more unique hits to eukaryote genes in this SAG (with most hits to Metazoa, Viridiplantae, and Stramenopiles) than to prokaryote genes. The large number of hits to Metazoa probably reflects the size of our database (>1.2 million proteins, Fig. 2A), combined with an absence of data from genomes that are closely related to picobiliphytes (Figs. 1A and 2B). Summing the lengths of all MS584-11 contigs with significant BLASTx hits to eukaryote proteins gave an estimate of 7.9 Mbp of detectable, gene-encoding regions of the picobiliphyte genome in our assembly. Given that other picosized eukaryotes such as *Ostreococcus* sp. and *Micromonas* spp. have genome sizes of ~12 to 22 Mbp (18), and that picobiliphyte-specific proteins will not be detected by our approach, the MS584-11 assembly probably covers a minimum of 50% of the picobiliphyte genome.

The predicted proteins from the MS584-11 assembly that had significant BLASTx hits (8334 proteins) were used as input for a phylogenomic analysis against our local genome database (see the supporting online material) (19). The picobiliphyte data included many highly conserved eukaryotic proteins such as beta-tubulin (contig21336_2; average coverage = 457x) and the second-largest subunit of DNA-directed RNA polymerase I (contig20686_4; average coverage = 11x). We concatenated seven conserved proteins present in the picobiliphyte genome data [actin, alpha-tubulin, beta-tubulin, heat shock protein 90, cytosolic heat shock protein 70, ribosomal protein L3, and 26S proteasome non-adenosine triphosphatase (non-ATPase) regulatory subunit] to infer their position in the tree of life. This Bayesian phylogeny (Fig. 2B) shows picobiliphytes to comprise an ancient divergence among eukaryotes with a putative phylogenetic relationship to the plastid-lacking telonemids. The picobiliphyte-telonemid clade is sister to the photosynthetic haptophytes and cryptophytes and the plastid-lacking katablepharids. The union of plastid-containing and plastid-lacking taxa suggests the possibility that picobiliphytes may once have been photosynthetic, as has been suggested for ciliates (20) and telonemids (21).

Phylogenomics using the MS584-11 data returned 5231 maximum likelihood (PhyML) trees that were sorted (22) to determine the taxonomic affinities of the different picobiliphyte proteins at the approximate likelihood-ratio test (aLRT) (23) cutoff ≥ 0.90 (Fig. 2A). This analysis showed that 2228 picobiliphyte proteins (3242 at aLRT ≥ 0.70) are monophyletic with the eukaryotes tested in our analysis (table S7), which is consistent with the BLASTx analysis described above using the yeast and diatom genome data. Phylogenomics provided a robust estimate of the number of eukaryotic proteins in the MS584-11 data set because it relied on maximum likelihood phylogenetic analysis to assess

gene affiliation. The finding that 338, 335, and 240 picobiliphyte proteins group at aLRT ≥ 0.90 with the Viridiplantae, Stramenopiles, and Haptophyta (table S7), respectively, is consistent with a possible photosynthetic ancestry for picobiliphytes (Fig. 2B). An example of a PhyML tree returned by our pipeline (showing members of the major facilitator superfamily of transporters) that supports a close association of MS584-11 with photosynthetic lineages is shown in fig. S3.

In a final attempt to find potential plastid-targeted proteins in MS584-11, we collected all of the maximum likelihood trees resulting from the phylogenomic analysis that grouped the picobiliphytes with Stramenopiles at aLRT ≥ 0.70 (1683 individual proteins) and generated gene ontology annotations for these sequences (table S8). Again, we found no evidence for nuclear-encoded plastid-targeted proteins (such as photosystem or light-harvesting proteins) in this data set that included nuclear genome data from photosynthetic diatoms and the pelagophyte *Aureococcus anophagefferens*, which are known to contain these genes. We interpret these different lines of evidence as arguing against a photosynthetic lifestyle for the picobiliphyte SAGs we have studied.

In this study, SAG analysis allowed us to generate significant genome data from three individual, related cells found in a single 50-ml coastal seawater sample. This revealed complex biotic interactions among previously uncharacterized marine microorganisms, with each cell undergoing distinct types of interaction. Our single-cell sequencing approach opens novel opportunities to study protist, prokaryote, and viral interactions in situ, without cultivation artifacts, and has biomedical applications; for example, in determining DNA differences between healthy and diseased cells. The ability to generate substantial amounts of genome data from single cells also opens the possibility of reconstructing the eukaryotic tree of life, using a multitude of uncultured taxa isolated directly from their natural environment.

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The authors thank J. Heywood and N. Poulton for technical support. The genome sequence of the MS584-5 virus is available in GenBank under the accession number HQ322117, whereas the 454 sequence data from SAG MS584-5 and 454 + Illumina reads from MS584-11 and MS584-22 are available at the NCBI Sequence Read Archive under the accession numbers SRR068243.1, SRR068244.2, and SRR068245.2, respectively. The assembled contigs for each SAG, the phylogenomic results (alignments and trees), singleton hit lists, annotations for the 8334 proteins in the MS584-11 joint assembly, protein alignments used for the trees presented in the paper, and the *Paulinella chromatophora* plastid sequence and Illumina genome

data used to determine the frequency of plastid genes recovered from these reads are freely available at <http://dbdata.rutgers.edu/data/pico>.

Supporting Online Material

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A Family of IFN- γ -Inducible 65-kD GTPases Protects Against Bacterial Infection

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Immune interferon gamma (IFN- γ) is essential for mammalian host defense against intracellular pathogens. IFN- γ induces nearly 2000 host genes, yet few have any assigned function. Here, we examined a complete mouse 65-kilodalton (kD) guanylate-binding protein (Gbp) gene family as part of a 43-member IFN- γ -inducible guanosine triphosphatase (GTPase) superfamily in mouse and human genomes. Family-wide loss-of-function analysis found that at least four Gbps—Gbp1, Gbp6, Gbp7, and Gbp10—conferred cell-autonomous immunity to listerial or mycobacterial infection within macrophages and gene-deficient animals. These Gbps solicited host defense proteins, including the phagocyte oxidase, antimicrobial peptides, and autophagy effectors, to kill intracellular bacteria. Thus, specific 65-kD Gbps coordinate a potent oxidative and vesicular trafficking program to protect the host from infection.

Immune interferon gamma (IFN- γ) is critical for resistance to infection, exerting its effects through broad transcriptional programs involving ~2000 genes, many of which remain uncharacterized (1, 2). Prominent within this transcriptional signature are several families of guanosine triphosphatases (GTPases). These include the 47-kD immunity-related GTPases (p47 IRGs), 65- to 73-kD guanylate-binding proteins (p65 Gbps), and 285-kD very large inducible GTPases (Vlgs/Gvins) (2).

Recent mapping efforts have uncovered 43 members of this IFN- γ -inducible GTPase superfamily within mouse and human genomes (3–7) (fig. S1, A and B). p47 IRGs represent the largest subgroup (~18 to 21 genes) important for host defense (8–12). These GTPases bind phosphoinositides, cardiolipin, soluble NSF attachment protein receptor adaptor proteins, and other p47 IRGs to direct their membrane regulatory activities against compartmentalized bacteria and

protozoa (10–12). In contrast, little is known about the p65 Gbp and Gvin subfamilies, despite accounting for ~20% of the relative abundance of all proteins induced by IFN- γ (2). Weak antiviral or antibacterial properties have been ascribed individually to Gbp1, Gbp2, and Gbp5 (13–15); however, integrated family contributions remain untested (2, 5).

We thus conducted loss-of-function screens across the complete 11-member mouse *Gbp* family in macrophages where it is strongly induced by IFN- γ compared with other IFNs (IFN- α B, IFN- λ , and IFN- ζ) and Toll-like receptor (TLR) ligands (fig. S1, C and D) (6). These immune cells were infected with two intracellular bacteria particularly sensitive to IFN- γ -mediated killing: *Listeria monocytogenes* (*Lm*), a gram-positive bacterium responsible for food-borne infection in humans, or *Mycobacterium bovis* BCG (*Mb* BCG), which causes lethal mycobacteriosis in IFN γ R-deficient patients (1). Using short 21-bp (base pair) Gbp small interfering RNA (siRNA) duplexes that gave robust gene-specific silencing (fig. S2, A and B), we found that Gbp1, Gbp6, Gbp7, and Gbp10 were critical for control of virulent *Lm* (EGD strain) or *Mb* BCG (Phipps strain). In resting RAW264.7 macrophages, *Lm* multiplied by a factor of ~85 (log $10^{1.9}$ growth)

over 6 hours after uptake. IFN- γ activation, however, curtailed replication (to a factor of ~18, or log $10^{1.2}$ growth), a restriction that was reversed with siRNAs for Gbp1, Gbp6, Gbp7, Gbp10 and to a lesser extent Gbp5 (to a factor of 39 to 58 or ~log $10^{1.5-1.75}$ growth; $P < 0.0062$) (Fig. 1A and fig. S3A). Protective Gbps functioned cooperatively, with siRNA combinations exacerbating the loss of IFN- γ -induced killing (Fig. 1A and fig. S3A). siRNA phenotypes were not attributable to single- and double-stranded RNA sensing. Primary bone-marrow-derived macrophages (BMMs) and RAW264.7 cells defective in either TLR (*MyD88*^{-/-} *Trif*^{-/-}) or Rig-1/*Mda5*/*Ips-1*-dependent RNA recognition (expressing the viral Rig-1/*Mda5*/*Ips-1* inhibitor, NS34A) yielded comparable results (Fig. 1A and fig. S3A).

Mb BCG challenge showed similar Gbp-dependent resistance. In short 48-hour killing assays that were necessitated by waning siRNA effectiveness at 96 hours, IFN- γ reduced *Mb* BCG by ~log $10^{0.8}$ [72 to 77% reduction in colony-forming units (CFU)] in untreated and scrambled RNA (scRNA)-treated macrophages. Inhibition was partly reversed by Gbp1, Gbp5, Gbp7, or Gbp6/Gbp10 siRNAs (56 to 64% CFU reduction) but not siRNAs for the remaining *Gbp* genes (77 to 82%; $P < 0.0112$) (Fig. 1A and fig. S3B).

To amplify the smaller phenotypes for slow-growing *Mb* BCG, we devised a system of long-term Gbp inhibition. Dominant-negative (DN) mutants were identified and stably expressed under tetracycline-repressible control [tTA-TRE2-Gbp (DN)] to avoid polyketide antibiotics during infection. Two conserved P-loop residues (GxxH/RxKS) required for nucleotide-dependent self-assembly or a C-terminal CaaX box (CVIL) used for C₂₀ isoprenyl membrane tethering were mutated (16, 17). All Gbp1 (Gbp1^{H48P}, Gbp1^{S52N}, and Gbp1^{SVL}) and Gbp7 (Gbp7^{R48P} and Gbp7^{S52N}) mutants failed to target vesicle membranes; however, those of Gbp10 (Gbp10^{R46P} and Gbp10^{S50N}) showed a less robust phenotype and were not pursued further as potential DN candidates (fig. S4A). Stable expression of Gbp1 and Gbp7 P-loop (S52N) mutants disrupted endogenous Gbp vesicle localization in IFN- γ -activated macrophages (fig. S4B), underscoring their DN action by binding wild-type partners for incorporation into “dead-end” multimeric complexes (fig. S5, A to C). This resembles dynamin-1 P-loop (S52N)

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Supporting Online Material for

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Correction: Tables S1 to S8 were added to the SOM file.

REPORT

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Supporting Online Material

Analysis of Plastid Genes in *Paulinella chromatophora*

To determine whether the inability to identify plastid DNA in the picobiliphytes, in spite of extensive genome sampling of MS584-11 and MS584-22, may reflect an unknown bias associated with our approach, we searched for plastid DNA in SAG-MDA derived Illumina genome data from a 50-cell sample of the photosynthetic amoeba *Paulinella chromatophora* FK01 for which the plastid genome sequence is known (S24). We chose this species because the genome data for *P. chromatophora* were generated using the same approach as for the picobiliphytes and therefore provided a direct test of the idea that plastid genes can be successfully recovered from SAG-MDA derived Illumina sequence reads. Ten bins of unassembled data, each totaling 80 Mbp (theoretical 1x coverage of the amoeba nuclear genome), were created by randomly retrieving 640,000 reads of length 125 bp from a 3.1 Gbp *P. chromatophora* Illumina-generated DNA library. The bins were then each used as a BLASTx query ($e\text{-value} \leq 1e\text{-}20$) against a protein database containing all FK01 plastid proteins. Using this approach, we identified an average of 149 matches per bin to the 841 distinct proteins on the FK01 organelle genome. A total of 459/841 plastid proteins had matches over the ten bins of data (the *P. chromatophora* plastid sequence and Illumina genome data used to determine the frequency of plastid genes recovered from these reads are freely available at <http://dbdata.rutgers.edu/data/pico>). Although the *P. chromatophora* plastid genome is ~5-6-fold larger than in a typical alga (S24), and we sampled pooled DNA from a culture, our data suggest that if present, plastid DNA should have been identified among the ~3 Gbp and ~9 Gbp of total data from MS584-11 and MS584-22, respectively.

Materials and Methods

A 50 mL coastal water sample was collected from 1 m depth in Boothbay Harbor in the Gulf of Maine, U.S.A. (43°50'39.76"N, 69°38'27.76"W). Sampling was at high tide (8:15 am) on July 25th, 2007. Water temperature was 18°C. Samples were kept in the dark at *in situ* temperature until processing (< 6h). Subsamples (3 mL) were incubated for 10 min with LysoTracker Green DND-26 (75 nmol.L⁻¹; Invitrogen), a pH-sensitive green fluorescing probe that stains food vacuoles in protists (S25). Target cells were identified and sorted using a MoFlo™ (Beckman-Coulter) flow cytometer equipped with a 488 nm laser for excitation. Prior to sorting, the cytometer was cleaned thoroughly with bleach: all tubes, plates, and buffers were UV-treated prior to use to remove any DNA contamination: a 1% NaCl solution (0.2 µm filtered and UV treated) was used as sheath fluid (S26).

Heterotrophic protists were identified by the presence of LysoTracker fluorescence and absence of chlorophyll fluorescence. Side scatter was used to select protists <10 µm in diameter that were deposited into 96 well plates, with some wells dedicated to positive (10 cells/well) and negative controls (0 cells/well). All wells on the microplates contained 5 µL 1 x PBS (sample labels starting with MS584) or Lyse-N-Go (Pierce) (sample labels starting with MS609). Samples were centrifuged briefly and stored at -80°C. Processing of a cell to generate a single cell amplified genome (SAG) using multiple displacement amplification (MDA) was done as previously described (S25). The PCR survey of the SAGs included 18S rDNA, actin, alpha-, and beta-tubulin all of which returned positive gene products. DNA from four picobiliphyte SAGs (MS584-5, MS584-11, MS584-22, and MS609-66) were re-amplified using the Repli-G midi kit (Qiagen) using the manufacturer's instructions. The products of the second MDA reaction were de-branched with S1 nuclease to reduce chimeric sequences during MDA (S27) and purified with a spin column (QIAquick PCR Purification Kit, Qiagen).

About 5 µg of genomic DNA derived from each SAG with the A260/280 ratio of 1.85 were used for shotgun sequencing with the GS-FLX Titanium platform (Roche) at the DNA Facility at the University of Iowa (<http://dna-9.int-med.uiowa.edu/>). One-quarter of a picotitre plate was used to generate sequence data from each picobiliphyte SAG resulting in over 230,000 reads per SAG. The individual sequence reads were assembled using *Celera wgs-6.0* beta (see

http://sourceforge.net/apps/mediawiki/wgs-assembler/index.php?title=Main_Page) using default settings (see table S3 for assembly output).

Thereafter about 10 µg of MDA-derived total DNA from MS584-11 and MS584-22 were each used to construct a library (sheared DNA fragments were of size 500 bp) for 100 bp x 100 bp paired-end sequencing using an Illumina GAIIx instrument in the Bhattacharya lab. Standard Illumina protocols (<http://www.illumina.com/>) were used to generate the library. We generated 29,286,431 reads totaling nearly 3 Gbp for MS584-11 and 68,757,098 reads totaling 9.5 Gbp for MS584-22. The MS584-11 Illumina data were co-assembled with the 454 reads from this SAG- using the proprietary software in *CLC Genomics Workbench* (<http://www.clcbio.com/>) resulting in 73,286 contigs with a total size 27.6 Mbp and a N50 of 638 bp. Assembly of only the Illumina data from MS584-22 using the *CLC Genomics Workbench* resulted in 74,660 contigs with a total size 29.4 Mbp and a N50 of 506 bp.

A local database was used to analyze the singletons and contigs resulting from the picobiliphyte 454-derived single cell genome assemblies. This database is described in Moustafa et al. (S28) and is composed of predicted and annotated proteins from RefSeq (Release 42), the genome of the red alga *Cyanidioschyzon merolae* (S29), diatom and green algal genomes available from the Joint Genome Institute, and partial EST data from protists such as dinoflagellates and cryptophytes available from other public repositories. The singleton analysis was done from each SAG 454 assembly to determine the phylogenetic origins of the unassembled reads. Using a BLASTx cut-off value of $E \leq 1e^{-10}$ and the database described above, we found hits to 14402, 17671, and 2244 singletons in MS584-5, MS584-11, and MS584 -22, respectively (list of singleton hits for each SAG available at <http://dbdata.rutgers.edu/data/pico>). BLASTx analysis with a threshold value of $E \leq 1e^{-5}$ identified 62, 3646, and 102 hits to mitochondrial DNA in the contigs of MS584-5, MS584-11, and MS584-22, respectively. Phylogenomic analysis was done as described in Moustafa et al. (S28). Resulting alignments were analyzed using PhyML (S30) with the approximate likelihood ratio test (aLRT) SH-like support values (S31) to infer ML trees under the WAG model. These trees were filtered with PhyloSort (S32) by searching for the monophyly of picobiliphytes with other eukaryotic and prokaryotic groups of interest with aLRT support score ≥ 0.90 , or ≥ 0.70 . For the trees presented in the main text paper we also used

RAxML (S33) with the WAG + Γ + I model of amino acid evolution to generate the trees. One hundred bootstrap replicates were used with RAxML, PhyML, or maximum parsimony (for rDNA) to assess the stability of nodes in these phylogenies (e.g., S34)

References and Notes

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Figure Legends

Figure S1. Analysis of genome data from picobiliphyte SAGs. (A) The bar graphs on the left are the results of analysis of the taxonomic distribution of total and unique BLASTx hits for genes in eukaryotic phyla using as query the 454-derived singleton reads from each SAG assembly. The total number of singletons analyzed for MS584-5, MS584-11, and MS584-22 is shown. The pie charts on the right of the bar graphs show the total number of hits to viral or bacterial phyla. (B) Distribution of the total number of BLASTx hits to different ssDNA virus sequences using as query contigs derived from the assembly of 454 data from MS584-5.

Figure S2. Phylogeny of picobiliphyte sequences. (A) Maximum likelihood (RAxML) tree of Rep proteins from representative ssDNA viruses showing the phylogenetic position of the MS584-5 Rep. RAxML bootstrap values are above the branches and those derived from PhyML (when nodes are shared) are below the branches. Only bootstrap values $\geq 60\%$ are shown. Circoviruses and their proposed sister group cycloviruses are in maroon text and nanoviruses in green. Rep from marine ssDNA viruses are shown in blue, whereas sequences derived from ocean metagenome data is in red. RW viruses are from reclaimed water, CB from Chesapeake Bay, and BCC from the coast of British Columbia. (B) Bayesian phylogeny inferred using a concatenated alignment (2594 aa) of the nuclear proteins actin, alpha-tubulin, beta-tubulin, heat shock protein 90, cytosolic heat shock protein 70, ribosomal protein L3, and 26S proteasome non-ATPase regulatory subunit. This is the most-likely tree derived from Phylobayes (V3.2e) analysis under the LG rate matrix (S35). Rates across sites were modeled under a Dirichlet process (S36). Four independent chains were run for 43,191 cycles each, until the mean discrepancy (meandiff) across all bipartitions was < 0.0015 (burnin = 20%). Bayesian posterior probability values are shown above the branches, whereas RAxML bootstrap values (when $\geq 60\%$) are shown below.

Figure S3. Maximum likelihood (PhyML) tree returned by the phylogenomics pipeline that shows members of the major facilitator superfamily (MFS) of membrane transporters. MFS proteins are single-polypeptide secondary carriers that facilitate the transport across cytoplasmic or internal membranes of a variety of small metabolites. The aLRT values (when ≥ 0.500) are shown at the branches. GenBank numbers are shown for each taxon. Viridiplantae are shown in green text, chromalveolates are shown in brown text, and Cyanobacteria in blue.

Table S1. Temperature, chlorophyll *a* (Chl), and microbe abundances (by flow cytometry) in the 25 July 2007 sample, compared to the 10-year average for week number 30 in Boothbay Harbor, ME. Abbreviations: HBac: heterotrophic bacteria, Syn: *Synechococcus*, PPROT: phototrophic protists (<20µm), Crypt: cryptophytes, HPROT: heterotrophic protists (<20µm).

Table S2. Results of rDNA analysis of SAG DNA generated using FACS-MDA. The SAG data shown in black text were derived from cells sorted using LysoTracker Green DND-26 to identify heterotrophs. The SAG data shown in green text were derived from cells sorted using chlorophyll autofluorescence to identify phototrophs. The SAG data shown in red text had intermediate autofluorescence levels. Note that picobiliphytes occur only in the heterotrophic fraction in these SAG data.

Table S3. Results of the *Celera* wgs-6.0 beta draft genome assembly using as input 454 pyrosequencing reads from SAGs MS584-5, MS584-11, and MS584-22.

Table S4. The number of protein sequences in our local database that was used for the BLASTx and phylogenomic analyses (based on phyla).

Table S5. Annotation of representative BLASTx hits to mtDNA and ptDNA (in gray background) using as query, translated 454-derived picobiliphyte genome contigs (utg [unitig] under *Celera*) from MS584-5, MS584-11, and MS584-22.

Table S6. BLASTx top hits to contigs derived from the MS584-22 Illumina assembly using the *CLC Genomics Workbench*. Proteins with plastid-encoded homologs in other taxa are shown with the green background and mitochondrial proteins with the red background.

Table S7. Results of the phylogenomic analysis of contigs generated from the assembly of 454+Illumina data from MS584-11. The putative proteins were predicted using BLASTx, which were then used as a query against our local database and the output analyzed with *PhyloSort* (S9) to identify the different monophyletic groups. A total of 5231 maximum likelihood (PhyML) trees were returned by the pipeline.

Table S8. Gene ontology (GO) annotations of the 1683 Stramenopiles proteins that grouped at $aLRT \geq 0.70$ (using PhyML) with proteins encoded on MS584-11 contigs (454+Illumina assembly). The maximum likelihood phylogenetic approach provides strong evidence that the Stramenopiles and picobiliphyte proteins are putative homologs.

Figure S1

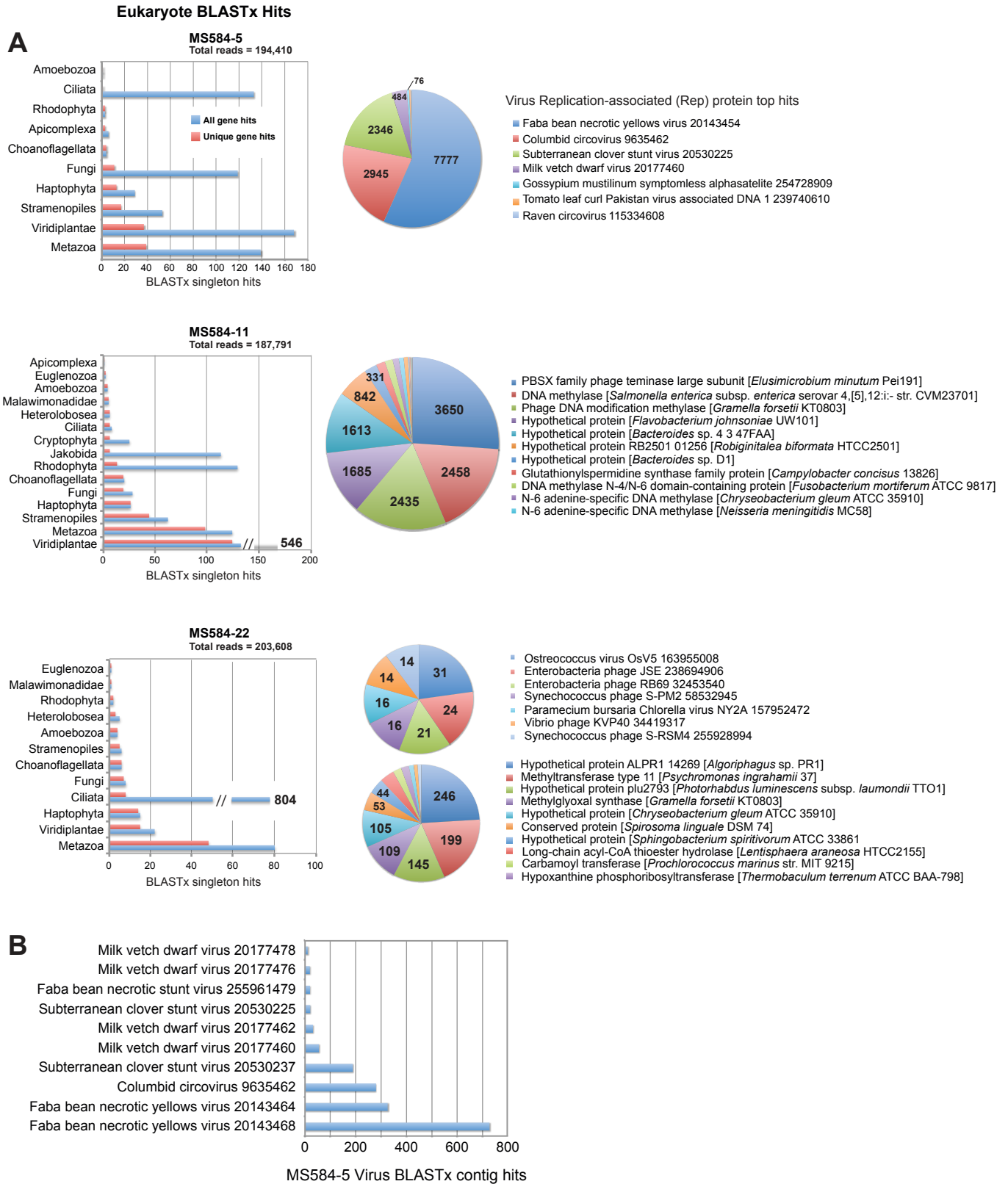


Figure S2

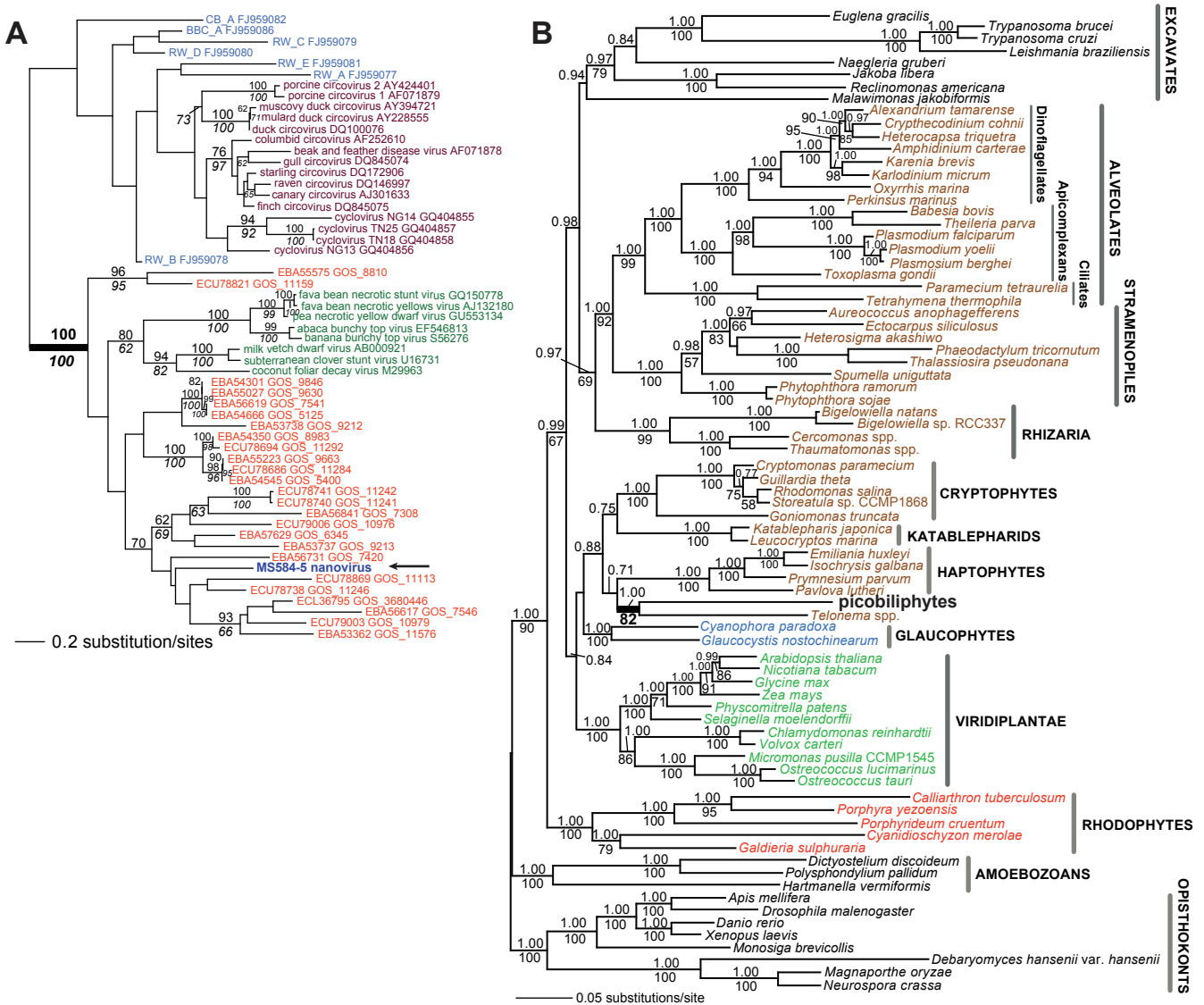
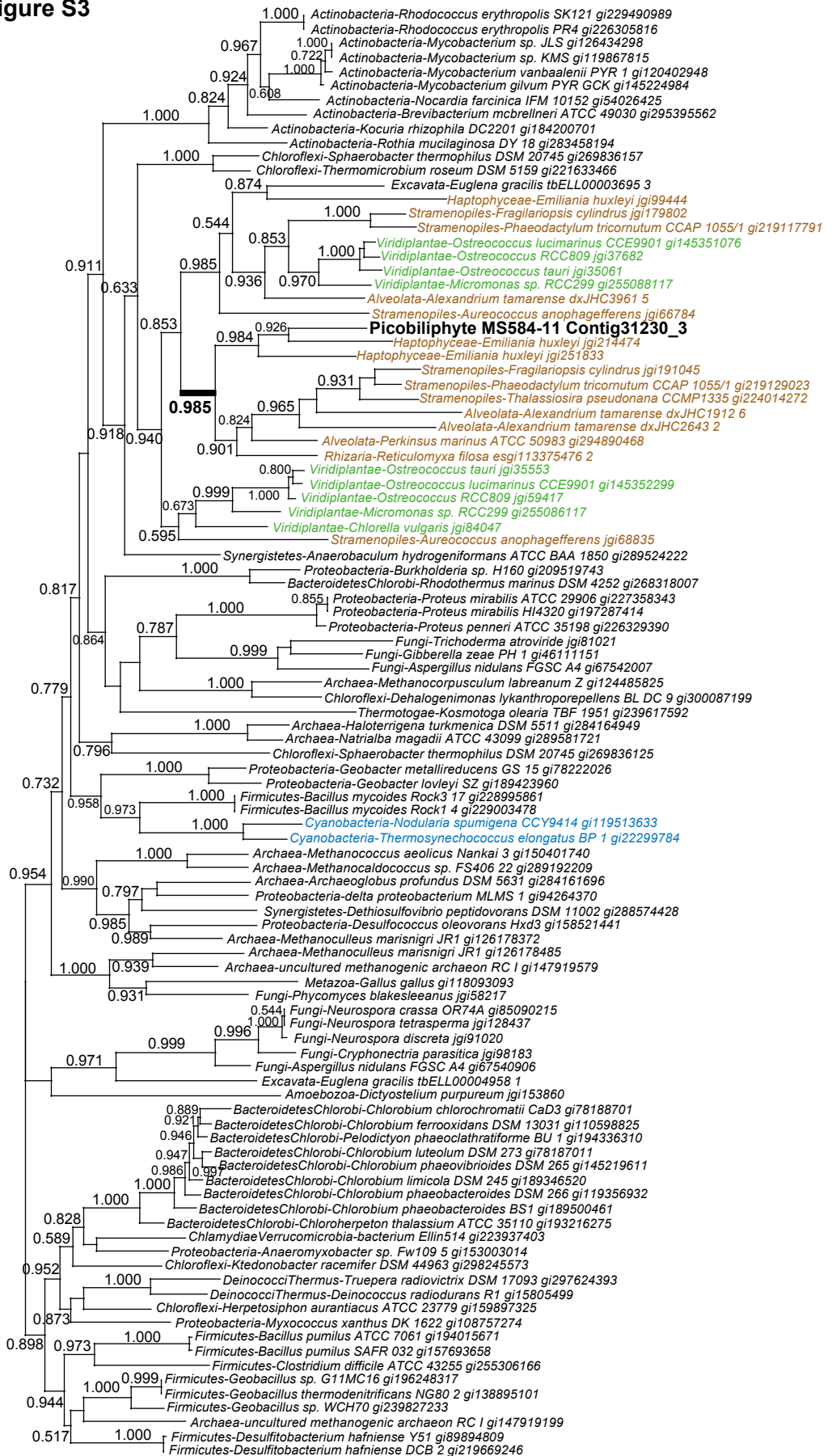


Figure S3



1 substitution/sites

Table S1. Temperature, chlorophyll *a* (Chl), and microbe abundances (by flow cytometry) in the 25 July 2007 sample, compared to the 10-year average for week number 30 in Boothbay Harbor, ME. Abbreviations: HBac: heterotrophic bacteria, Syn: *Synechococcus*, PPROT: phototrophic protists (<20µm), Crypt: cryptophytes, HPROT: heterotrophic protists (<20µm).

		Chl						
	Temp	Chl	<20µm	HBac	Syn	PPROT	Crypt	HPROT
	°C	µgL ⁻¹	%	mL ⁻¹	mL ⁻¹	mL ⁻¹	mL ⁻¹	mL ⁻¹
25-Jul-07	18.1	2.65	96.2	3.06x10 ⁶	39825	30506	786	2219
Average	19.1	2.60	90.8	3.11x10 ⁶	25256	37823	577	2689

Table S2. Results of rDNA analysis of SAG DNA generated using FACS-MDA. The SAG data shown in black text were derived from cells sorted using Lysotracker Green DND-26 to identify heterotrophs. The SAG data shown in green text were derived from cells sorted using chlorophyll autofluorescence to identify phototrophs. The SAG data shown in red text had intermediate autofluorescence levels. Note that picobiliphytes occur only in the heterotrophic fraction in these SAG data.

Container	Well (row:column)	Eukaryotic "supergroup"	Division	Class	Order	Family	Genus	Clade
AAA071	B:3	Archaeplastida	Rhodophyta	Floriideophyceae	Floriideophyceae	Corallinales	<i>Neogoniolithon</i>	
AAA071	A:2	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 2
AAA071	B:5	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 1
AAA071	C:7	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 33
AAA071	G:14	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 1
AAA071	I:11	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 1
AAA071	I:14	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 2
AAA071	J:15	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 2
AAA071	M:8	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 1
AAA071	M:9	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 2
AAA071	M:19	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II	<i>Alexandrium</i>	Dino-Group II-Clade 4
AAA071	N:17	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 2
AAA071	O:10	Chromalveolata	Alveolata	Dinophyceae	Syndiniales	Dino-Group II		Dino-Group II-Clade 1
AAA071	N:8	Chromalveolata	Katablepharidophyta	Katablepharidaceae	Katablepharidales			
AAA071	F:5	Chromalveolata	Picobiliphyta	Picobiliphyta	Picobiliphyta			
AAA071	J:7	Chromalveolata	Picobiliphyta	Picobiliphyta	Picobiliphyta	Monopisthocotylea		
AAA071	L:9	Chromalveolata	Picobiliphyta	Picobiliphyta	Picobiliphyta			
AAA071	A:3	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Hibberdiales_Chryso-sphaerales_Ochromonadales		
AAA071	E:3	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Hibberdiales_Chryso-sphaerales_Ochromonadales		
AAA071	E:16	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Ochromonadales		Novel Ochromonadales 1
AAA071	G:7	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Ochromonadales		
AAA071	J:21	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Paraphysomonadales		Paraphysomonas group 1
AAA071	K:4	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Ochromonadales		
AAA071	K:20	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Ochromonadales		
AAA071	L:13	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Oikomonadales		Oikomonas group 1
AAA071	M:11	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Ochromonadales		
AAA071	O:2	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Ochromonadales		Novel Ochromonadales 1
AAA071	F:22	Chromalveolata	Stramenopiles	Labyrinthulida	Thraustochytriales			
AAA071	B:18	Chromalveolata	Stramenopiles	MAST-4	MAST-4			
AAA071	C:5	Chromalveolata	Stramenopiles	MAST-4	MAST-4			
AAA071	E:17	Chromalveolata	Stramenopiles	MAST-4	MAST-4			
AAA071	M:18	Chromalveolata	Stramenopiles	MAST-4	MAST-4			
AAA071	E:15	Opisthokonta	Choanoflagellida	Choanoflagellida	Choanoflagellida			
AAA071	I:17	Opisthokonta	Choanoflagellida	Choanoflagellida	Choanoflagellida	Hydrozoa		
AAA071	L:17	Opisthokonta	Choanoflagellida	Choanoflagellida	Choanoflagellida			
AAA071	J:3	Opisthokonta	Fungi	Ascomycota	Pezizomycotina	Eurotiomycetes		
AAA071	M:5	Opisthokonta	Fungi	Ascomycota	Pezizomycotina	Dothideomycetes		
AAA071	G:13	Rhizaria	Cercozoa	Thecofilosea	Thecofilosea	Thecofilosea		
AAA071	G:16	Rhizaria	Cercozoa	Thecofilosea	Thecofilosea	Thecofilosea		
AAA071	I:23	Rhizaria	Cercozoa	Thecofilosea	Thecofilosea	Thecofilosea		
AAA172	A:6	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Bathycoccus</i>	
AAA172	A:21	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	Ostreococcus Clade A
AAA172	B:3	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	Ostreococcus Clade A
AAA172	B:6	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Micromonas</i>	Mpusilla Clade B.E.3
AAA172	B:13	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Bathycoccus</i>	
AAA172	B:18	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	Ostreococcus Clade A
AAA172	D:15	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	
AAA172	D:20	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Micromonas</i>	Mpusilla Clade A.ABC.1-2
AAA172	D:23	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	
AAA172	E:3	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	
AAA172	E:5	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Bathycoccus</i>	
AAA172	E:6	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	Ostreococcus Clade A
AAA172	F:6	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	Ostreococcus Clade A
AAA172	F:14	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	
AAA172	J:3	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Micromonas</i>	Mpusilla Clade C.D.5
AAA172	J:9	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	Ostreococcus Clade A
AAA172	J:15	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Micromonas</i>	Mpusilla Clade C.D.5
AAA172	K:5	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	
AAA172	K:19	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Micromonas</i>	Mpusilla Clade C.D.5
AAA172	M:14	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	
AAA172	N:13	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	
AAA172	O:9	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	Ostreococcus Clade A
AAA172	O:11	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	Ostreococcus Clade A
AAA172	O:17	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Micromonas</i>	Mpusilla Clade C.D.5
AAA172	P:3	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Micromonas</i>	Mpusilla Clade B.E.3
AAA172	P:11	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	
AAA172	P:13	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Bathycoccus</i>	
AAA172	P:15	Archaeplastida	Chlorophyta	Prasinophyceae	Mamiellales	Mamiellaceae	<i>Ostreococcus</i>	
AAA074	E:3	Chromalveolata	Stramenopiles	Bacillariophyta	Pennate diatoms			
AAA074	A:2	Chromalveolata	Stramenopiles	Chrysophyceae and Synurophyceae	Chrysophyceae and Synurophyceae	Ochromonadales		Novel Ochromonadales 1

Table S3. Results of the *Celera* wgs-6.0 beta draft genome assembly using as input 454 pyrosequencing reads from SAGs MS584-5, MS584-11, and MS584-22.

<i>Celera</i> wgs-6.0 beta output	Boothbay MS584-5	Boothbay MS583-11	Boothbay MS584-22
Total usable reads	231,979	241,297	253,002
Average read length (bases)	391	372	355
Number of Contigs	123	472	268
Contig length (bases)	233,941	860,593	483,234
Number of Degenerate contigs	8,779	9,886	7,652
Degenerate contig length (bases)	4,545,717	5,327,645	4,049,336
Singleton reads	194,410 (83.8%)	187,795 (77.8%)	203,611 (80.5%)
Singleton length (bases)	74,000,433	67,073,167	68,590,052
Contig coverage	6.2X	4.6X	5.3X
GC-content	55.6%	53.8%	47.4%

Table S4. The number of protein sequences in our local database that was used for the BLASTx and phylogenomic analyses (based on phyla).

Grouping	Species/Strain	RefSeq	JGI	EST ¹	Independent ²	Total
Archaea	121	225,867	0	0	0	225,867
Bact-Actinobacteria	282	994,292	0	0	0	994,292
Bact-Aquificae	10	19,325	0	0	0	19,325
Bact-BacteroidetesChlorobi	141	450,081	0	0	0	450,081
Bact-ChlamydiaeVerrucomicrobia	38	79,759	0	0	0	79,759
Bact-Chloroflexi	15	52,585	0	0	0	52,585
Bact-Cyanobacteria	68	225,555	0	0	0	225,555
Bact-Deferribacteres	2	5,338	0	0	0	5,338
PROKARYOTES Bact-Deinococci	12	26,191	0	0	0	26,191
Bact-Dictyoglomi	2	3,656	0	0	0	3,656
Bact-Elusimicrobia	2	2,305	0	0	0	2,305
Bact-Environmental	2	408	0	0	0	408
Bact-FibrobacteresAcidobacteria	6	28,629	0	0	0	28,629
Bact-Firmicutes	759	2,099,809	0	0	0	2,099,809
Bact-Fusobacteria	25	59,335	0	0	0	59,335
Bact-Gemmatimonadetes	1	3,935	0	0	0	3,935
Bact-Nitrospirae	3	6,366	0	0	0	6,366
Bact-Planctomycetes	6	36,794	0	0	0	36,794
Bact-Proteobacteria	1239	4,251,165	0	0	0	4,251,165
Bact-Spirochaetes	44	72,342	0	0	0	72,342
Bact-Synergistetes	6	13,162	0	0	0	13,162
Bact-Tenericutes	55	32,455	0	0	0	32,455
Bact-Thermotogae	11	20,807	0	0	0	20,807
Bact-Unclassified	9	17,518	0	0	0	17,518
Alveolata	70	167,836	0	584,904	0	752,740
Amoebozoa	22	30,550	12,410	138,624	0	181,584
Cryptophyta	8	1,419	0	40,320	0	41,739
Excavata	30	134,643	0	443,424	0	578,067
Haptophyta	5	140	39,124	56,868	0	96,132
Opisthokonta-Choanoflagellida	4	9,203	0	74,886	0	84,089
Opisthokonta-Fungi	186	569,377	212,456	132,168	0	914,001
Opisthokonta-Metazoa	2120	1,067,024	140,855	30,108	0	1,237,987
Opisthokonta-Others	4	0	0	46,494	0	46,494
Plantae-Glaucophyta	3	149	0	57,696	0	57,845
Plantae-Rhodophyta	23	1,168	0	331,482	28,975	361,625
Plantae-Viridiplantae	228	385,435	114,102	114,294	0	613,831
Rhizaria	5	1,211	0	29,112	0	30,323
Stramenopiles	47	41,980	81,762	96,078	0	219,820
Vira	2475	84,202	0	0	0	84,202
Others	39	1,062	0	0	0	1,062
Total	8,128	11,223,078	600,709	2,176,458	28,975	14,029,220

¹ The actual numbers of EST contigs are the numbers in this column divided by 6 due to six-frame translations.

² These data represent protein models from *Cyanidioschyzon merolae* and *Calliarthron tuberculosis*.

Table S5. Annotation of representative BLASTx hits to mtDNA and ptDNA (in gray background) using as query, translated picobiliphyte genome contigs (utg [unitig] under *Celera*) from MS584-5, MS584-11, and MS584-22.

Picobiliphyte Unitig ID	Top Hit Organism	Putative Annotation
utg718000000001	Viridiplantae-Chara vulgaris mt 38638282	>NP_943685 NADH dehydrogenase subunit 4 [Chara vulgaris].
utg718000000002	Viridiplantae-Chlorokybus atmophyticus mt 150406468	>YP_001315136 NADH dehydrogenase subunit 2 [Chlorokybus atmophyticus].
utg718000000003	Cryptophyta-Rhodomonas salina mt 11466601	>NP_066491 cytochrome c oxidase subunit 1 [Rhodomonas salina].
utg718000000003	Cryptophyta-Rhodomonas salina mt 11466601	>NP_066491 cytochrome c oxidase subunit 1 [Rhodomonas salina].
utg718000000004	Rhodophyta-Porphyras purpurea mt 11465632	>NP_049303 NADH dehydrogenase subunit 1 [Porphyra purpurea].
utg718000000006	Viridiplantae-Chlorokybus atmophyticus mt 150406471	>YP_001315130 NADH dehydrogenase subunit 5 [Chlorokybus atmophyticus].
utg718000000007	Viridiplantae-Chlorokybus atmophyticus mt 150406468	>YP_001315136 NADH dehydrogenase subunit 2 [Chlorokybus atmophyticus].
utg718000000008	Viridiplantae-Chlorokybus atmophyticus mt 150406466	>YP_001315135 NADH dehydrogenase subunit 1 [Chlorokybus atmophyticus].
utg718000000009	Viridiplantae-Ostreococcus tauri mt 113170503	>YP_717294 Atp6 [Ostreococcus tauri].
utg718000000010	Jakobida-Reclinomonas americana mt 11466560	>NP_044809 cytochrome c oxidase subunit 2 [Reclinomonas americana].
utg718000000011	Planctomycetes-Planctomyces maris DSM 8797 149179536	>ZP_01858077 30S ribosomal protein S12 [Planctomyces maris DSM 8797].
utg718000000012	Cryptophyta-Hemiselmis andersenii mt 186920131	>YP_001874785 NADH dehydrogenase subunit 6 [Hemiselmis andersenii].
utg718000000013	Proteobacteria-Erythrobacter sp SD-21 149184321	>ZP_01862639 LSU ribosomal protein L14P [Erythrobacter sp. SD-21].
utg718000000014	Gemmatimonadetes-Gemmatimonas aurantiaca T-27 226226286	>YP_002760392 50S ribosomal protein L16 [Gemmatimonas aurantiaca T-27].
utg718000000015	Heterokonta-Phytophthora ramorum mt 145932460	>YP_001165372 ribosomal protein S14 [Phytophthora ramorum]. >XP_002162613 PREDICTED: similar to predicted protein [Hydra magnipapillata].
utg718000000016	Metazoa-Hydra magnipapillata 221130316	>NP_943686 NADH dehydrogenase subunit 2 [Chara vulgaris].
utg718000000017	Viridiplantae-Chara vulgaris mt 38638280	>NP_943686 NADH dehydrogenase subunit 2 [Chara vulgaris].
utg718000000018	Viridiplantae-Chara vulgaris mt 38638280	>NP_943686 NADH dehydrogenase subunit 2 [Chara vulgaris].
utg718000000019	Viridiplantae-Marchantia polymorpha mt 11467101	>NP_054402 NADH dehydrogenase subunit 2 [Marchantia polymorpha].
utg718000000020	Viridiplantae-Chlorokybus atmophyticus mt 150406468	>YP_001315136 NADH dehydrogenase subunit 2 [Chlorokybus atmophyticus].
utg718000000021	Viridiplantae-Chlorokybus atmophyticus mt 150406468	>YP_001315136 NADH dehydrogenase subunit 2 [Chlorokybus atmophyticus].
utg718000000022	Viridiplantae-Nephroselmis olivacea mt 110225675	>YP_665681 cytochrome c oxidase subunit 3 [Nephroselmis olivacea].
utg718000000023	Viridiplantae-Nephroselmis olivacea mt 110225675	>YP_665681 cytochrome c oxidase subunit 3 [Nephroselmis olivacea].
utg718000000024	Viridiplantae-Physcomitrella patens mt 91208858	>YP_539019 NADH dehydrogenase subunit 2 [Physcomitrella patens].

utg718000000025	Viridiplantae-Physcomitrella patens mt 91208857	>YP 539018 NADH dehydrogenase subunit 4 [Physcomitrella patens].
utg718000000026	Rhodophyta-Chondrus crispus mt 9653246	>NP 062492 NADH dehydrogenase subunit 3 [Chondrus crispus].
utg718000000027	Rhodophyta-Porphyrha purpurea mt 11465632	>NP 049303 NADH dehydrogenase subunit 1 [Porphyra purpurea].
utg718000000028	Rhodophyta-Cyanidioschyzon merolae strain 10D CMW021C	>NP 059359 NADH dehydrogenase subunit 1 [Cyanidioschyzon merolae]
utg718000000028	Rhodophyta-Cyanidioschyzon merolae strain 10D CMW021C	
utg718000000028	Rhodophyta-Cyanidioschyzon merolae strain 10D CMW021C	
utg718000000029	Viridiplantae-Chara vulgaris mt 38638282	>NP 943685 NADH dehydrogenase subunit 4 [Chara vulgaris].
utg718000000030	Viridiplantae-Chara vulgaris mt 38638282	>NP 943685 NADH dehydrogenase subunit 4 [Chara vulgaris].
utg718000000031	Viridiplantae-Chara vulgaris mt 38638282	>NP 943685 NADH dehydrogenase subunit 4 [Chara vulgaris].
utg718000000032	Viridiplantae-Ostreococcus tauri mt 113170508	>YP 717299 nad4 [Ostreococcus tauri].
utg718000000033	Viridiplantae-Ostreococcus tauri mt 113170508	>YP 717299 nad4 [Ostreococcus tauri].
utg718000000034	Viridiplantae-Chaetosphaeridium globosum mt 22550336	>NP 689386 cytochrome c oxidase subunit 1 [Chaetosphaeridium globosum].
utg718000000035	Viridiplantae-Nephroselmis olivacea mt 110225658	>YP 665664 cytochrome c oxidase subunit 1 [Nephroselmis olivacea].
utg718000000036	Choanoflagellata-Monosiga brevicollis ATCC 50154 mt 23464621	>NP 696989 apocytochrome b [Monosiga brevicollis ATCC 50154].
utg718000000037	Jakobida-Reclinomonas americana mt 11466551	>NP 044800 NADH dehydrogenase subunit 5 [Reclinomonas americana].
utg718000000038	Jakobida-Reclinomonas americana mt 11466551	>NP 044800 NADH dehydrogenase subunit 5 [Reclinomonas americana].
utg718000000039	Viridiplantae-Mesostigma viride mt 110225699	>YP 665704 cytochrome c oxidase subunit 2 [Mesostigma viride].
utg718000000040	Heterokonta-Phytophthora infestans mt 9695376	>NP 037598 cytochrome c oxidase subunit 2 [Phytophthora infestans].
utg718000000041	Viridiplantae-Mesostigma viride mt 110225699	>YP 665704 cytochrome c oxidase subunit 2 [Mesostigma viride].
utg718000000042	Viridiplantae-Chlorokybus atmophyticus mt 150406471	>YP 001315130 NADH dehydrogenase subunit 5 [Chlorokybus atmophyticus].
utg718000000043	Jakobida-Reclinomonas americana mt 11466550	>NP 044799 NADH dehydrogenase subunit 4L [Reclinomonas americana].
utg718000000044	Viridiplantae-Ostreococcus tauri mt 113170509	>YP 717300 nad5 [Ostreococcus tauri].
utg718000000044	Viridiplantae-Ostreococcus tauri mt 113170509	>YP 717300 nad5 [Ostreococcus tauri].
utg718000000045	Heterokonta-Phytophthora ramorum mt 145932460	>YP 001165372 ribosomal protein S14 [Phytophthora ramorum].
utg718000000000	Choanoflagellata-Monosiga brevicollis ATCC 50154 mt 23464621	>NP 696989 apocytochrome b [Monosiga brevicollis ATCC 50154].
utg718000000001	Planctomycetes-Planctomyces maris DSM 8797 149179536	>ZP 01858077 30S ribosomal protein S12 [Planctomyces maris DSM 8797].
utg718000000002	Verrucomicrobia-Akkermansia muciniphila ATCC BAA-835 187734946	>YP 001877058 ribosomal protein S13 [Akkermansia muciniphila ATCC BAA-835].
utg718000000003	Gemmatimonadetes-Gemmatimonas	>YP 002760392 50S ribosomal protein

utg718000000004	aurantiaca T-27 226226286 Proteobacteria-Erythrobacter sp SD-21 149184321	L16 [Gemmatimonas aurantiaca T-27]. >ZP 01862639 LSU ribosomal protein L14P [Erythrobacter sp. SD-21].
utg718000000005	Proteobacteria-Agrobacterium tumefaciens str C58 159184736	>NP 354381 30S ribosomal protein S2 [Agrobacterium tumefaciens str. C58].
utg718000000006	Heterokonta-Phytophthora sojae jgi108909	>XP 002263323 PREDICTED: hypothetical protein [Vitis vinifera].
utg718000000007	Viridiplantae-Vitis vinifera 225426230	
utg718000000008	Heterokonta-Phytophthora capsici jgi95944	
utg718000000008	Heterokonta-Phytophthora capsici jgi95944	
utg718000000009	Viridiplantae-Micromonas sp RCC299 255070073	>XP 002507118 heat shock binding protein 70, ER luminal [Micromonas sp. RCC299].
utg718000000009	Viridiplantae-Micromonas sp RCC299 255070073	>XP 002507118 heat shock binding protein 70, ER luminal [Micromonas sp. RCC299].
utg718000000009	Viridiplantae-Micromonas sp RCC299 255070073	>XP 002507118 heat shock binding protein 70, ER luminal [Micromonas sp. RCC299].
utg718000000010	Viridiplantae-Chlorella sp NC64A jgi29643	
utg718000000011	Viridiplantae-Coccomyxa sp C-169 jgi34760	
utg718000000012	Fungi-Schizosaccharomyces japonicus yFS275 213408811	>XP 002175176 heat shock protein [Schizosaccharomyces japonicus yFS275].
utg718000000013	Proteobacteria-Rhodospirillum centenum SW 209964055	>YP 002296970 50S ribosomal protein L6 [Rhodospirillum centenum SW].

Table S6. BLASTx top hits to contigs derived from the MS584-22 Illumina assembly using the *CLC Genomics Workbench*. Proteins with plstid-encoded homologs in other taxa are shown with the green background and mitochondrial proteins with the red background.

ConsensususfromContig1371Viridiplantae-Pseudodictyonium_akinetum_pt_gi108796958	1.60E-13	>YF_636258 putative site-specific DNA endonuclease [Pseudodictyonium akinetum].
ConsensususfromContig3444Viridiplantae-Zygnema_circumcarinatum_pt_gi108796758	1.50E-14	>YF_636502 hypothetical protein ZycKcP036 [Zygnema circumcarinatum].
ConsensususfromContig1270Metazoa-Chondrilla_aff_nucula_CHOND_mt_gi164421148	7.80E-17	>YF_001648550 NADH dehydrogenase subunit 5 [Chondrilla aff. nucula CHOND].
ConsensususfromContig1758Viridiplantae-Marchantia_polymorpha_mt_gi11467101	3.20E-12	>NP_054402 NADH dehydrogenase subunit 2 [Marchantia polymorpha].
ConsensususfromContig1941Viridiplantae-Chara_vulgaris_mt_gi38638282	6.40E-42	>NP_943685 NADH dehydrogenase subunit 4 [Chara vulgaris].
ConsensususfromContig2394Viridiplantae-Phycomitrella_patens_mt_gi1711259158	3.0E-13	>YF_00135110 putative reverse transcriptase and intron maturase [Chlorokybus atmophyticus].
ConsensususfromContig2497Viridiplantae-Ostreococcus_tauri_mt_gi113170508	1.20E-42	>YF_717299 nad4 [Ostreococcus tauri].
ConsensususfromContig2800Viridiplantae-Chlorokybus_atmophyticus_mt_gi150406468	2.40E-31	>YF_00135136 NADH dehydrogenase subunit 2 [Chlorokybus atmophyticus].
ConsensususfromContig2800Viridiplantae-Chlorokybus_atmophyticus_mt_gi150406468	2.40E-31	>YF_00135136 NADH dehydrogenase subunit 2 [Chlorokybus atmophyticus].
ConsensususfromContig3132Stramenopiles-Chattonella_marina_mt_gi289065169	6.70E-57	>YF_003434221 cytochrome c oxidase subunit II [Chattonella marina].
ConsensususfromContig3242Viridiplantae-Chlorokybus_atmophyticus_mt_gi150406504	4.90E-30	>YF_00135110 putative reverse transcriptase and intron maturase [Chlorokybus atmophyticus].
ConsensususfromContig3415Viridiplantae-Chlorokybus_atmophyticus_mt_gi150406502	2.30E-11	>YF_001351104 hypothetical protein NitaMpp08 [Chlorokybus atmophyticus].
ConsensususfromContig3427Viridiplantae-Nicotiana_tabacum_mt_gi57013882	2.50E-15	>YF_173356 hypothetical protein NitaMpp08 [Nicotiana tabacum].
ConsensususfromContig3651Viridiplantae-Chlorokybus_atmophyticus_mt_gi150406504	5.90E-16	>YF_00135110 putative reverse transcriptase and intron maturase [Chlorokybus atmophyticus].
ConsensususfromContig3651Viridiplantae-Chlorokybus_atmophyticus_mt_gi150406468	1.40E-13	>YF_00135136 NADH dehydrogenase subunit 2 [Chlorokybus atmophyticus].
ConsensususfromContig5133Excavata-Reclinomonas_americana_mt_gi11466551	3.10E-196	>NP_044800 NADH dehydrogenase subunit 5 [Reclinomonas americana].
ConsensususfromContig5218Viridiplantae-Nephroselmis_olivacea_mt_gi110225658	1.30E-167	>YF_665664 cytochrome c oxidase subunit 1 [Nephroselmis olivacea].
ConsensususfromContig5435Excavata-Reclinomonas_americana_mt_gi11466552	1.10E-152	>NP_044801 NADH dehydrogenase subunit 4 [Reclinomonas americana].
ConsensususfromContig5445Viridiplantae-Nicotiana_tabacum_mt_gi57013882	1.70E-16	>YF_173356 hypothetical protein NitaMpp08 [Nicotiana tabacum].
ConsensususfromContig5455Viridiplantae-Chaetosphaeridium_globosum_mt_gi22550335	5.50E-112	>NP_689380 apocytochrome b [Chaetosphaeridium globosum].
ConsensususfromContig5680Viridiplantae-Nephroselmis_olivacea_mt_gi110225658	8.60E-37	>YF_665664 cytochrome c oxidase subunit 1 [Nephroselmis olivacea].
ConsensususfromContig5680Viridiplantae-Nephroselmis_olivacea_mt_gi110225658	8.60E-37	>YF_665664 cytochrome c oxidase subunit 1 [Nephroselmis olivacea].
ConsensususfromContig6133Viridiplantae-Chlorokybus_atmophyticus_mt_gi150406504	3.30E-23	>YF_00135110 putative reverse transcriptase and intron maturase [Chlorokybus atmophyticus].
ConsensususfromContig6133Excavata-Reclinomonas_americana_mt_gi11466550	1.50E-46	>NP_044754 NADH dehydrogenase subunit 1 [Reclinomonas americana].
ConsensususfromContig6189Stramenopiles-Phytophthora_ramorum_mt_gi145932439	8.30E-13	>YF_001165351 NADH dehydrogenase subunit 2 [Phytophthora ramorum].
ConsensususfromContig6189Stramenopiles-Phytophthora_ramorum_mt_gi145932439	8.30E-13	>YF_001165351 NADH dehydrogenase subunit 2 [Phytophthora ramorum].
ConsensususfromContig6262Viridiplantae-Marchantia_polymorpha_mt_gi11467101	7.20E-30	>NP_054402 NADH dehydrogenase subunit 2 [Marchantia polymorpha].
ConsensususfromContig6474Metazoa-Tospentia_ophriaphidites_mt_gi164421007	5.60E-12	>YF_001648502 cytochrome c oxidase subunit III [Tospentia ophriaphidites].
ConsensususfromContig6474Excavata-Reclinomonas_americana_mt_gi11466550	1.50E-46	>NP_044754 NADH dehydrogenase subunit 1 [Reclinomonas americana].
ConsensususfromContig6686Excavata-Reclinomonas_americana_mt_gi11466533	5.10E-107	>NP_044782 NADH dehydrogenase subunit 7 [Reclinomonas americana].
ConsensususfromContig7094Viridiplantae-Chara_vulgaris_mt_gi38638279	3.80E-68	>NP_943693 NADH dehydrogenase subunit 1 [Chara vulgaris].
ConsensususfromContig7137Viridiplantae-Prototheca_wickerhamii_mt_gi11497477	7.20E-26	>NP_042267 NADH dehydrogenase (ubiquinone), subunit 4 [Prototheca wickerhamii].
ConsensususfromContig7346Viridiplantae-Nephroselmis_olivacea_mt_gi110225675	5.60E-14	>YF_665681 cytochrome c oxidase subunit 3 [Nephroselmis olivacea].
ConsensususfromContig2348Actinobacteria-Actinosynnema_mirum_DSM_43827_gi256375186	1.60E-19	>YF_00309846 Alpha-galactosidase [Actinosynnema mirum DSM 43827].
ConsensususfromContig2079Actinobacteria-Actinosynnema_mirum_DSM_43827_gi25637304	4.80E-14	>YF_003100964 hypothetical protein Amir_3209 [Actinosynnema mirum DSM 43827].
ConsensususfromContig5170Actinobacteria-Beutenbergia_cavernae_DSM_12333_gi229818998	7.30E-12	>YF_002880524 major facilitator superfamily MFS_1 [Beutenbergia cavernae DSM 12333].
ConsensususfromContig5429Actinobacteria-Beutenbergia_cavernae_DSM_12333_gi229819432	1.50E-22	>YF_002880958 Phytanoyl-CoA dioxygenase [Beutenbergia cavernae DSM 12333].
ConsensususfromContig7558Actinobacteria-Catenuliferia_acidiphila_DSM_44928_gi256394790	9.20E-13	>YF_003116354 Beta-N-acetylhexosaminidase [Catenuliferia acidiphila DSM 44928].
ConsensususfromContig5161Actinobacteria-Conexibacter_woesei_DSM_14684_gi284044319	2.90E-48	>YF_003394659 domain of unknown function DUF1731 [Conexibacter woesei DSM 14684].
ConsensususfromContig2298Actinobacteria-Cryptobacterium_curtum_DSM_15641_gi256826780	1.70E-18	>YF_003150739 serine/threonine protein kinase [Cryptobacterium curtum DSM 15641].
ConsensususfromContig2398Actinobacteria-Frankia_sp_EUN11_gi288916463	1.00E-14	>ZP_06410841 AAA ATPase central domain protein [Frankia sp. EUN11].
ConsensususfromContig2398Actinobacteria-Frankia_sp_EUN11_gi288917371	4.00E-17	>ZP_06411738 Hydroxyacylglutathione hydrolase [Frankia sp. EUN11].
ConsensususfromContig2417Actinobacteria-Frankia_symbiont_of_Datisca_glomerata_gi289641839	6.80E-26	>ZP_06473996 Ferroxidase [Frankia symbiont of Datisca glomerata].
ConsensususfromContig5226Actinobacteria-Frankia_symbiont_of_Datisca_glomerata_gi289641413	1.40E-41	>ZP_06476236 short-chain dehydrogenase/reductase SDR [Frankia symbiont of Datisca glomerata].
ConsensususfromContig1989Actinobacteria-Geodermatophilus_obscurus_DSM_43160_gi284992406	2.40E-14	>YF_003410960 endonuclease/exonuclease/phosphatase [Geodermatophilus obscurus DSM 43160].
ConsensususfromContig1946Actinobacteria-Janibacter_sp_HTCC2649_gi84498585	5.80E-11	>YF_00997348 putative long-chain fatty-acid CoA ligase [Janibacter sp. HTCC2649].
ConsensususfromContig2032Actinobacteria-Kineococcus_radiololentis_SRS30216_gi152966274	9.20E-13	>YF_003136208 hypothetical protein catG_2113 [Kineococcus radiololentis SRS30216].
ConsensususfromContig4715Actinobacteria-Kribbella_flavida_DSM_17836_gi284030564	2.90E-11	>YF_003380495 alpha-L-rhamnosidase [Kribbella flavida DSM 17836].
ConsensususfromContig1923Actinobacteria-Kribbella_flavida_DSM_17836_gi284032401	9.20E-11	>YF_003382332 glycoside hydrolase family 2 sugar binding protein [Kribbella flavida DSM 17836].
ConsensususfromContig1949Actinobacteria-Kribbella_flavida_DSM_17836_gi284032401	3.80E-32	>YF_003382332 glycoside hydrolase family 2 sugar binding protein [Kribbella flavida DSM 17836].
ConsensususfromContig6978Actinobacteria-Kribbella_flavida_DSM_17836_gi284032401	1.10E-19	>YF_003382332 glycoside hydrolase family 2 sugar binding protein [Kribbella flavida DSM 17836].
ConsensususfromContig5921Actinobacteria-marine_actinobacterium_PHSC20c1_gi88856654	9.10E-30	>YF_003131010 hypothetical protein AC06_10145 [marine actinobacterium PHSC20c1].
ConsensususfromContig2272Actinobacteria-Micromonospora_sp_LS_gi288791739	1.70E-17	>ZP_06397482 Glycoside hydrolase family 59 [Micromonospora sp. LS].
ConsensususfromContig3168Actinobacteria-Mycobacterium_parascrofulaceum_ATCC_BAA_614_gi296171002	2.90E-11	>ZP_06852486 conserved hypothetical protein [Mycobacterium parascrofulaceum ATCC BAA-614].
ConsensususfromContig5966Actinobacteria-Mycobacterium_tuberculosis_O2_1987_gi289746734	9.50E-11	>ZP_06506112 phenolphthiocerol synthesis type-1 polyketide synthase psd [Mycobacterium tuberculosis O2_1987].
ConsensususfromContig2025Actinobacteria-Dassonvilleia_subsp_dassonvillei_DSM_43111_gi297562438	9.70E-15	>YF_003081412 hypothetical protein S5AC_06535 [Dassonvilleia subsp. dassonvillei DSM 43111].
ConsensususfromContig4762Actinobacteria-Propionibacterium_acnes_KPA171202_gi50841908	1.90E-12	>YF_0051335 hypothetical protein PPA2398 [Propionibacterium acnes KPA171202].
ConsensususfromContig2576Actinobacteria-Propionibacterium_freudenreichii_subsp_shermanii_CIRM_BIA1_gi297626729	2.70E-11	>YF_003688492 hypothetical protein PFREUD_15690 [Propionibacterium freudenreichii subsp. shermanii CIRM-BIA1].
ConsensususfromContig2576Actinobacteria-Propionibacterium_freudenreichii_subsp_shermanii_CIRM_BIA1_gi297626729	2.70E-11	>YF_003688492 hypothetical protein PFREUD_15690 [Propionibacterium freudenreichii subsp. shermanii CIRM-BIA1].
ConsensususfromContig5329Actinobacteria-Rhodococcus_erythropolis_SK121_gi229492866	6.80E-32	>ZP_04386662 conserved hypothetical protein [Rhodococcus erythropolis SK121].
ConsensususfromContig5461Actinobacteria-Rhodococcus_erythropolis_SK121_gi229492866	9.30E-13	>ZP_04386662 conserved hypothetical protein [Rhodococcus erythropolis SK121].
ConsensususfromContig7378Actinobacteria-Saccharomonospora_viridis_DSM_43017_gi257055466	2.80E-14	>YF_003133298 beta-galactosidase/beta-glucuronidase [Saccharomonospora viridis DSM 43017].
ConsensususfromContig2229Actinobacteria-Saccharomonospora_viridis_DSM_43017_gi257055466	8.90E-14	>YF_003135016 tetratricopeptide repeat protein [Saccharomonospora viridis DSM 43017].
ConsensususfromContig2100Actinobacteria-Saccharopolyspora_erythraea_NRRL_2338_gi134103490	3.00E-15	>YF_001109151 putative alpha-galactosidase [Saccharopolyspora erythraea NRRL 2338].
ConsensususfromContig3139Actinobacteria-Salinispora_tropica_CNB_440_gi45596123	3.40E-12	>YF_001160420 glyoxalase/bleomycin resistance protein/dioxygenase [Salinispora tropica CNB-440].
ConsensususfromContig4959Actinobacteria-Sanguibacter_keddiei_DSM_10542_gi269794916	6.50E-13	>YF_003314371 nucleoside-diphosphate-sugar epimerase [Sanguibacter keddiei DSM 10542].
ConsensususfromContig2391Actinobacteria-Stackebrandtia_nassauensis_DSM_44728_gi291300871	6.30E-26	>YF_003512149 Phytanoyl-CoA dioxygenase [Stackebrandtia nassauensis DSM 44728].
ConsensususfromContig1945Actinobacteria-Streptomyces_avermitilis_MA_4680_gi29830182	9.00E-26	>NP_824816 thioesterase [Streptomyces avermitilis MA-4680].
ConsensususfromContig2408Actinobacteria-Streptomyces_clavuligerus_ATCC_27064_gi294811519	1.50E-11	>ZP_06770162 Alginate lyase domain-containing protein [Streptomyces clavuligerus ATCC 27064].
ConsensususfromContig3557Actinobacteria-Streptomyces_flavogriseus_ATCC_33331_gi260456612	1.50E-13	>YF_00504989 Beta-galactosidase [Streptomyces flavogriseus ATCC 33331].
ConsensususfromContig3557Actinobacteria-Streptomyces_flavogriseus_ATCC_33331_gi260456612	1.50E-13	>YF_00504989 Beta-galactosidase [Streptomyces flavogriseus ATCC 33331].
ConsensususfromContig3436Actinobacteria-Streptomyces_griseus_subsp_griseus_NBRC_13350_gi182434427	8.50E-11	>YF_001822146 putative StrG-like protein [Streptomyces griseus subsp. griseus NBRC 13350].
ConsensususfromContig2366Actinobacteria-Streptomyces_hygroscopicus_ATCC_53653_gi256782365	2.90E-21	>ZP_05520828 carbon-nitrogen family hydrolase [Streptomyces hygroscopicus ATCC 53653].
ConsensususfromContig2366Actinobacteria-Streptomyces_hygroscopicus_ATCC_53653_gi256782365	1.70E-11	>ZP_05520822 hypothetical protein S5AC_06535 [Streptomyces sp. Mj1].
ConsensususfromContig5870Actinobacteria-Streptomyces_sviceus_ATCC_29083_gi297197084	5.80E-14	>YF_06914481 secreted alpha-galactosidase [Streptomyces sviceus ATCC 29083].
ConsensususfromContig2186Actinobacteria-Streptomyces_sviceus_ATCC_29083_gi297197084	1.30E-23	>YF_06915201 alpha-galactosidase [Streptomyces sviceus ATCC 29083].
ConsensususfromContig3341Actinobacteria-Streptomyces_sviceus_ATCC_29083_gi297197858	7.30E-15	>ZP_06915255 alpha-N-arabinofuranosidase [Streptomyces sviceus ATCC 29083].
ConsensususfromContig2238Actinobacteria-Streptosporangium_roseum_DSM_43021_gi271967420	9.50E-35	>YF_003341616 hypothetical protein SroS_6143 [Streptosporangium roseum DSM 43021].
ConsensususfromContig1484Actinobacteria-Thermotoga_bispora_DSM_43833_gi29626863	3.40E-15	>YF_00347048 alpha-L-fucosyl sulfatase [Thermotoga bispora DSM 43833].
ConsensususfromContig1976Actinobacteria-Xylanimonas_cellulosilytica_DSM_15894_gi269957876	4.70E-25	>YF_00327665 putative lipoprotein [Xylanimonas cellulosilytica DSM 15894].
ConsensususfromContig7225Alveolata-Alexandrium_catenella_esContig331_2	2.80E-17	
ConsensususfromContig2284Alveolata-Alexandrium_catenella_esContig391_1	3.90E-18	
ConsensususfromContig5371Alveolata-Alexandrium_catenella_esgi186952784_2	4.00E-18	>EX455521 sqb5cb7a69 Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig1171Alveolata-Alexandrium_catenella_esgi186952817_3	3.20E-12	>EX456919 sqb822ee3e Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig6575Alveolata-Alexandrium_catenella_esgi186952817_3	1.30E-14	>EX456919 sqb822ee3e Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig2400Alveolata-Alexandrium_catenella_esgi186953118_3	3.00E-28	>EX456980 sqd7b27f48 Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig2400Alveolata-Alexandrium_catenella_esgi186953118_3	3.00E-28	>EX456980 sqd7b27f48 Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig7111Alveolata-Alexandrium_catenella_esgi186954472_1	2.70E-15	>EX457048 sqd7b27f48 Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig7451Alveolata-Alexandrium_catenella_esgi186954520_3	2.90E-11	>EX455028 sqf0166bc8 Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig6930Alveolata-Alexandrium_catenella_esgi186959833_2	6.00E-53	>EX460209 sq389ed421 Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig8166Alveolata-Alexandrium_catenella_esgi186959912_2	1.60E-15	>EX463603 sq29cfa0e Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig3765Alveolata-Alexandrium_catenella_esgi186959912_2	3.30E-41	>EX463603 sq29cfa0e Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig7079Alveolata-Alexandrium_catenella_esgi186961616_1	3.40E-23	>EX462325 sq557dd57 Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig2297Alveolata-Alexandrium_catenella_esgi186962952_2	1.60E-29	>EX456752 sqf83493d3 Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig5789Alveolata-Alexandrium_catenella_esgi186962952_2	1.40E-23	>EX456752 sqf83493d3 Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig7155Alveolata-Alexandrium_catenella_esgi186963545_1	1.70E-25	>EX458658 sqc19531fc Alexandrium catenella ACC07 expressed sequence tags Alexandrium catenella cDNA, mRNA sequence.
ConsensususfromContig7079Alveolata-Alexandrium_minutum_esContig1129_3	1.30E-15	

ConsensusfromContig5147Alveolata-Alexandrium_minutum_esContig1293_1 2.00E-12
ConsensusfromContig5126Alveolata-Alexandrium_minutum_esContig1437_5 6.40E-23
ConsensusfromContig5664Alveolata-Alexandrium_minutum_esContig1829_6 4.50E-26
ConsensusfromContig7432Alveolata-Alexandrium_minutum_esContig2510_4 4.60E-12
ConsensusfromContig2072Alveolata-Alexandrium_minutum_esContig2597_2 1.10E-33
ConsensusfromContig2030Alveolata-Alexandrium_minutum_esContig2770_4 1.20E-17
ConsensusfromContig2000Alveolata-Alexandrium_minutum_esContig2872_2 6.20E-49
ConsensusfromContig6333Alveolata-Alexandrium_minutum_esContig3122_1 7.40E-14
ConsensusfromContig2303Alveolata-Alexandrium_minutum_esContig3131_1 7.80E-50
ConsensusfromContig2863Alveolata-Alexandrium_minutum_esContig3131_1 3.00E-32
ConsensusfromContig2115Alveolata-Alexandrium_minutum_esContig354_6 1.10E-12
ConsensusfromContig2976Alveolata-Alexandrium_minutum_esqj297637419_2 9.60E-14 >GW795302 AmnE011001P0035A12.y_phred13_vc Alexandrium minutum normalized EST library Alexandrium minutum cDNA, mRNA sequence.
ConsensusfromContig4847Alveolata-Alexandrium_minutum_esqj297642649_3 8.70E-11 >GW802226 AmnE011001P0086G23.x_phred13_vc Alexandrium minutum normalized EST library Alexandrium minutum cDNA, mRNA sequence.
ConsensusfromContig5141Alveolata-Alexandrium_minutum_esqj297644712_1 3.80E-31 >GW810253 AmnE011001P015E04.y_phred13_vc Alexandrium minutum normalized EST library Alexandrium minutum cDNA, mRNA sequence.
ConsensusfromContig2159Alveolata-Alexandrium_minutum_esqj297650009_2 1.20E-13 >GW798786 AmnE011001P016G112.y_phred13_vc Alexandrium minutum normalized EST library Alexandrium minutum cDNA, mRNA sequence.
ConsensusfromContig3145Alveolata-Alexandrium_tamarense_dxContig1417_4 1.60E-12
ConsensusfromContig6958Alveolata-Alexandrium_tamarense_dxContig1494_2 1.20E-15
ConsensusfromContig8618Alveolata-Alexandrium_tamarense_dxJHC1057_5 1.20E-16
ConsensusfromContig3124Alveolata-Alexandrium_tamarense_dxJHC10717_3 1.50E-25
ConsensusfromContig9369Alveolata-Alexandrium_tamarense_dxJHC11278_6 9.40E-12
ConsensusfromContig3194Alveolata-Alexandrium_tamarense_dxJHC12328_1 3.90E-12
ConsensusfromContig2056Alveolata-Alexandrium_tamarense_dxJHC13435_5 1.70E-11
ConsensusfromContig6639Alveolata-Alexandrium_tamarense_dxJHC13522_1 4.60E-18
ConsensusfromContig2139Alveolata-Alexandrium_tamarense_dxJHC1425_3 9.60E-15
ConsensusfromContig1973Alveolata-Alexandrium_tamarense_dxJHC14755_4 2.60E-23
ConsensusfromContig3944Alveolata-Alexandrium_tamarense_dxJHC16214_3 4.70E-16
ConsensusfromContig4922Alveolata-Alexandrium_tamarense_dxJHC16214_3 4.90E-22
ConsensusfromContig5108Alveolata-Alexandrium_tamarense_dxJHC1640_3 3.40E-12
ConsensusfromContig5213Alveolata-Alexandrium_tamarense_dxJHC16667_5 1.40E-23
ConsensusfromContig2419Alveolata-Alexandrium_tamarense_dxJHC17473_2 2.20E-54
ConsensusfromContig5114Alveolata-Alexandrium_tamarense_dxJHC1838_6 2.70E-17
ConsensusfromContig6220Alveolata-Alexandrium_tamarense_dxJHC21402_5 2.00E-20
ConsensusfromContig2446Alveolata-Alexandrium_tamarense_dxJHC21770_4 1.40E-11
ConsensusfromContig5151Alveolata-Alexandrium_tamarense_dxJHC22214_6 7.80E-11
ConsensusfromContig4616Alveolata-Alexandrium_tamarense_dxJHC22368_4 1.30E-11
ConsensusfromContig7104Alveolata-Alexandrium_tamarense_dxJHC22987_6 2.80E-12
ConsensusfromContig1947Alveolata-Alexandrium_tamarense_dxJHC23483_4 6.00E-16
ConsensusfromContig3122Alveolata-Alexandrium_tamarense_dxJHC23483_4 1.00E-13
ConsensusfromContig5339Alveolata-Alexandrium_tamarense_dxJHC23483_4 8.70E-15
ConsensusfromContig5446Alveolata-Alexandrium_tamarense_dxJHC23483_4 2.00E-18
ConsensusfromContig4574Alveolata-Alexandrium_tamarense_dxJHC24619_6 3.70E-19
ConsensusfromContig6272Alveolata-Alexandrium_tamarense_dxJHC2719_2 7.40E-54
ConsensusfromContig2602Alveolata-Alexandrium_tamarense_dxJHC3083_2 7.80E-12
ConsensusfromContig1712Alveolata-Alexandrium_tamarense_dxJHC3440_5 4.10E-17
ConsensusfromContig3105Alveolata-Alexandrium_tamarense_dxJHC36417_3 1.30E-12
ConsensusfromContig3707Alveolata-Alexandrium_tamarense_dxJHC41885_5 2.70E-14
ConsensusfromContig3707Alveolata-Alexandrium_tamarense_dxJHC41885_5 2.70E-14
ConsensusfromContig7120Alveolata-Alexandrium_tamarense_dxJHC4388_1 3.30E-15
ConsensusfromContig6962Alveolata-Alexandrium_tamarense_dxJHC5122_1 8.50E-20
ConsensusfromContig6477Alveolata-Alexandrium_tamarense_dxJHC5950_2 3.20E-12
ConsensusfromContig1602Alveolata-Alexandrium_tamarense_dxJHC6243_3 9.60E-11
ConsensusfromContig3922Alveolata-Alexandrium_tamarense_dxJHC714_3 8.00E-12
ConsensusfromContig5369Alveolata-Alexandrium_tamarense_dxJHC714_3 1.80E-22
ConsensusfromContig852 Alveolata-Alexandrium_tamarense_dxJHC7147_1 2.00E-16
ConsensusfromContig2065Alveolata-Alexandrium_tamarense_dxJHC7448_2 2.00E-11
ConsensusfromContig6290Alveolata-Alexandrium_tamarense_dxJHC8955_1 1.30E-15
ConsensusfromContig3549Alveolata-Alexandrium_tamarense_dxJHC8955_3 3.90E-25
ConsensusfromContig1592Alveolata-Alexandrium_tamarense_dxJHC9820_5 4.90E-12
ConsensusfromContig2382Alveolata-Amphidinium_carterae_esqj39542533_2 9.20E-17 >CF064837 Ac1462r Amphidinium carterae Amphidinium carterae cDNA clone Ac1462r 5', mRNA sequence.
ConsensusfromContig2246Alveolata-Amphidinium_carterae_esqj39544170_3 1.40E-12 >CF066474 Ac4258 Amphidinium carterae Amphidinium carterae cDNA clone Ac4258 3', mRNA sequence.
ConsensusfromContig5259Alveolata-Amphidinium_carterae_esqj39544267_3 8.80E-23 >CF066571 Ac4412 Amphidinium carterae Amphidinium carterae cDNA clone Ac4412 3', mRNA sequence.
ConsensusfromContig2002Alveolata-Amphidinium_carterae_esqj39545286_3 1.50E-11 >CF067590 Ac766 Amphidinium carterae Amphidinium carterae cDNA clone Ac766 3', mRNA sequence.
ConsensusfromContig2386Alveolata-Anophryoides_haemophila_tbAHL00000492_2 1.50E-39
ConsensusfromContig5929Alveolata-Anophryoides_haemophila_tbAHL00000492_2 4.00E-40
ConsensusfromContig1762Alveolata-Babesia_bovis_T2bo_gli156089535 5.30E-15 >XP_001612174 ribosomal protein L21 [Babesia bovis T2Bo].
ConsensusfromContig4645Alveolata-Cryptosporidium_hominis_TU502_gj67616500 1.30E-23 >XP_667490 hypothetical protein [Cryptosporidium hominis TU502].
ConsensusfromContig2124Alveolata-Heterocapsa_triquetra_tbHTL00000727_2 9.80E-27
ConsensusfromContig5841Alveolata-Heterocapsa_triquetra_tbHTL00000727_2 3.10E-17
ConsensusfromContig6163Alveolata-Heterocapsa_triquetra_tbHTL00000727_2 1.30E-13
ConsensusfromContig5400Alveolata-Heterocapsa_triquetra_tbHTL00001443_1 1.60E-17
ConsensusfromContig2489Alveolata-Karenia_brevis_esContig1462_3 3.80E-13
ConsensusfromContig4065Alveolata-Karenia_brevis_esContig2024_2 1.60E-12
ConsensusfromContig5923Alveolata-Karenia_brevis_esContig2024_2 3.80E-16
ConsensusfromContig2655Alveolata-Karenia_brevis_esContig228_3 3.10E-20
ConsensusfromContig1936Alveolata-Karenia_brevis_esContig3516_3 1.50E-123
ConsensusfromContig1961Alveolata-Karenia_brevis_esContig3516_3 1.10E-127
ConsensusfromContig2846Alveolata-Karenia_brevis_esContig3589_4 6.50E-20
ConsensusfromContig1717Alveolata-Karenia_brevis_esContig3961_2 9.10E-28
ConsensusfromContig3653Alveolata-Karenia_brevis_esContig3961_2 2.00E-17
ConsensusfromContig2965Alveolata-Karenia_brevis_esContig4085_3 1.00E-23
ConsensusfromContig2215Alveolata-Karenia_brevis_esContig4106_4 2.90E-24
ConsensusfromContig5198Alveolata-Karenia_brevis_esContig4439_2 1.00E-15
ConsensusfromContig5386Alveolata-Karenia_brevis_esContig4994_5 2.60E-31
ConsensusfromContig1969Alveolata-Karenia_brevis_esContig5086_5 2.30E-25
ConsensusfromContig4951Alveolata-Karenia_brevis_esContig5086_5 4.20E-23
ConsensusfromContig5156Alveolata-Karenia_brevis_esContig5086_5 9.70E-35
ConsensusfromContig3529Alveolata-Karenia_brevis_esContig5371_4 6.20E-11
ConsensusfromContig1953Alveolata-Karenia_brevis_esContig5398_2 2.30E-39
ConsensusfromContig5153Alveolata-Karenia_brevis_esContig5866_2 1.50E-45
ConsensusfromContig2075Alveolata-Karenia_brevis_esContig6192_6 1.40E-18
ConsensusfromContig5113Alveolata-Karenia_brevis_esContig6480_5 4.80E-26
ConsensusfromContig6989Alveolata-Karenia_brevis_esContig6565_2 8.20E-37
ConsensusfromContig6974Alveolata-Karenia_brevis_esContig6681_3 7.60E-21
ConsensusfromContig1939Alveolata-Karenia_brevis_esContig6868_5 3.10E-24
ConsensusfromContig2219Alveolata-Karenia_brevis_esContig6868_5 9.90E-24
ConsensusfromContig2021Alveolata-Karenia_brevis_esContig1132_1 7.40E-14
ConsensusfromContig3127Alveolata-Karenia_brevis_esContig1132_1 2.30E-15
ConsensusfromContig1634Alveolata-Karenia_brevis_esContig7267_2 3.50E-13
ConsensusfromContig6945Alveolata-Karenia_brevis_esContig7403_6 2.30E-23
ConsensusfromContig7433Alveolata-Karenia_brevis_esContig7789_5 2.20E-11

ConsensusfromContig5106Alveolata-Karenia_brevis_esContig7875_6 3.50E-16
ConsensusfromContig2143Alveolata-Karenia_brevis_esContig7371_4 2.00E-16
ConsensusfromContig3397Alveolata-Karenia_brevis_esContig8090_3 1.80E-17
ConsensusfromContig2019Alveolata-Karenia_brevis_esContig8254_2 1.90E-85
ConsensusfromContig7093Alveolata-Karenia_brevis_esContig8316_6 5.00E-21
ConsensusfromContig1972Alveolata-Karenia_brevis_esContig8440_2 1.50E-70
ConsensusfromContig4413Alveolata-Karenia_brevis_esContig8528_3 1.10E-11
ConsensusfromContig2015Alveolata-Karenia_brevis_esContig8544_1 3.10E-18
ConsensusfromContig3409Alveolata-Karenia_brevis_esContig8654_4 8.00E-13
ConsensusfromContig5349Alveolata-Karenia_brevis_esContig8654_4 1.00E-21
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ConsensusfromContig2975Alveolata-Karenia_brevis_esContig8824_1 2.10E-11
ConsensusfromContig5391Alveolata-Karenia_brevis_esContig8824_1 2.10E-25
ConsensusfromContig6572Alveolata-Karenia_brevis_esContig8824_1 4.80E-11
ConsensusfromContig6980Alveolata-Karenia_brevis_esContig8824_1 7.50E-34
ConsensusfromContig2112Alveolata-Karenia_brevis_esContig8846_1 4.80E-14
ConsensusfromContig7000Alveolata-Karenia_brevis_esContig8917_3 9.90E-28
ConsensusfromContig6145Alveolata-Karenia_brevis_esContig9198_1 6.20E-15
ConsensusfromContig4193Alveolata-Karenia_brevis_esContig9346_3 1.90E-14
ConsensusfromContig6979Alveolata-Karenia_brevis_esContig9422_3 3.10E-17
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ConsensusfromContig5418Alveolata-Karenia_brevis_esContig9685_2 1.00E-15
ConsensusfromContig5104Alveolata-Karenia_brevis_esContig9697_2 1.80E-16
ConsensusfromContig3027Alveolata-Karenia_brevis_esContig9808_1 2.00E-16
ConsensusfromContig5168Alveolata-Karenia_brevis_esContig9824_1 4.40E-15
ConsensusfromContig1231Alveolata-Karenia_brevis_esContig9824_1 4.40E-15
ConsensusfromContig2449Alveolata-Karenia_brevis_esContig9824_1 1.10E-52
ConsensusfromContig6951Alveolata-Karenia_brevis_esContig9824_1 1.80E-18
ConsensusfromContig2160Alveolata-Karenia_brevis_esContig9824_1 1.60E-16
ConsensusfromContig7246Alveolata-Karenia_brevis_esContig9824_1 7.20E-31
ConsensusfromContig3201Alveolata-Karenia_brevis_esContig9824_1 1.30E-18
ConsensusfromContig5181Alveolata-Karenia_brevis_esContig9824_1 6.30E-11
ConsensusfromContig1396Alveolata-Karenia_brevis_esContig9824_1 2.00E-11
ConsensusfromContig2202Alveolata-Karenia_brevis_esContig9824_1 4.40E-15
ConsensusfromContig6968Alveolata-Karenia_brevis_esContig9824_1 7.20E-17
ConsensusfromContig7028Alveolata-Karenia_brevis_esContig9824_1 1.60E-22
ConsensusfromContig2382Alveolata-Karenia_brevis_esContig9824_1 1.30E-15
ConsensusfromContig1987Alveolata-Karenia_brevis_esContig9824_1 1.70E-30
ConsensusfromContig5104Alveolata-Karenia_brevis_esContig9824_1 1.30E-20
ConsensusfromContig2522Alveolata-Karenia_brevis_esContig9824_1 3.10E-17
ConsensusfromContig2522Alveolata-Karenia_brevis_esContig9824_1 3.10E-17
ConsensusfromContig3260Alveolata-Karenia_brevis_esContig9824_1 6.60E-13
ConsensusfromContig1293Alveolata-Karenia_brevis_esContig9824_1 1.40E-12
ConsensusfromContig1293Alveolata-Karenia_brevis_esContig9824_1 3.40E-12
ConsensusfromContig1787Alveolata-Karenia_brevis_esContig9824_1 1.90E-16
ConsensusfromContig1519Alveolata-Karenia_brevis_esContig9824_1 1.50E-21
ConsensusfromContig1987Alveolata-Karenia_brevis_esContig9824_1 1.70E-30
ConsensusfromContig5111Alveolata-Karenia_brevis_esContig9824_1 3.30E-38
ConsensusfromContig2519Alveolata-Karenia_brevis_esContig9824_1 5.60E-18
ConsensusfromContig731Alveolata-Karenia_brevis_esContig9824_1 6.90E-12
ConsensusfromContig7119Alveolata-Karenia_brevis_esContig9824_1 1.40E-21
ConsensusfromContig1064Alveolata-Karenia_brevis_esContig9824_1 1.70E-16
ConsensusfromContig3560Alveolata-Karenia_brevis_esContig9824_1 7.50E-23
ConsensusfromContig3560Alveolata-Karenia_brevis_esContig9824_1 7.50E-23
ConsensusfromContig7233Alveolata-Karolidinium_micrum_tkBML0001964_3 1.60E-18
ConsensusfromContig2874Alveolata-Karolidinium_micrum_tkBML0001964_3 3.80E-24
ConsensusfromContig1932Alveolata-Karolidinium_micrum_tkBML0003276_3 2.40E-26
ConsensusfromContig5199Alveolata-Karolidinium_micrum_tkBML0003276_3 5.10E-18
ConsensusfromContig6266Alveolata-Karolidinium_micrum_tkBML0003276_3 9.20E-17
ConsensusfromContig3 Alveolata-Karolidinium_micrum_tkBML0005491_3 3.70E-18
ConsensusfromContig5267Alveolata-Karolidinium_micrum_tkBML0006501_2 5.10E-12
ConsensusfromContig2369Alveolata-Karolidinium_micrum_tkBML0006732_3 1.00E-13
ConsensusfromContig4626Alveolata-Karolidinium_micrum_tkBML0007083_2 2.60E-19
ConsensusfromContig2465Alveolata-Karolidinium_micrum_tkBML0007350_1 1.50E-11
ConsensusfromContig7319Alveolata-Karolidinium_micrum_tkBML0007350_1 2.60E-17
ConsensusfromContig1205Alveolata-Karolidinium_micrum_tkBML0007752_3 6.50E-17
ConsensusfromContig2273Alveolata-Karolidinium_micrum_tkBML0010921_3 7.10E-24
ConsensusfromContig1292Alveolata-Karolidinium_micrum_tkBML0011946_1 8.40E-11
ConsensusfromContig2046Alveolata-Lingulodinium_polyedrum_esg139541194_1 1.10E-51
ConsensusfromContig2222Alveolata-Lingulodinium_polyedrum_esg139541194_1 3.70E-11
ConsensusfromContig5145Alveolata-Lingulodinium_polyedrum_esg139541779_1 1.00E-28
ConsensusfromContig3141Alveolata-Lingulodinium_polyedrum_esg13884415_1 3.60E-16
ConsensusfromContig1159Alveolata-Lingulodinium_polyedrum_esg13884473_1 1.70E-15
ConsensusfromContig5175Alveolata-Lingulodinium_polyedrum_esg13885560_1 1.00E-42
ConsensusfromContig2110Alveolata-Lingulodinium_polyedrum_esg13885898_2 3.30E-16
ConsensusfromContig7084Alveolata-Lingulodinium_polyedrum_esg13886334_3 1.10E-22
ConsensusfromContig3000Alveolata-Paramecium_tetraurelia_strain_d4_2_g145476441 1.40E-25
ConsensusfromContig2293Alveolata-Paramecium_tetraurelia_strain_d4_2_g145480475 1.40E-24
ConsensusfromContig1194Alveolata-Paramecium_tetraurelia_strain_d4_2_g14548499 3.20E-17
ConsensusfromContig5133Alveolata-Paramecium_tetraurelia_strain_d4_2_g145502321 5.70E-53
ConsensusfromContig6926Alveolata-Paramecium_tetraurelia_strain_d4_2_g145513136 5.50E-28
ConsensusfromContig4781Alveolata-Paramecium_tetraurelia_strain_d4_2_g145513478 6.60E-18
ConsensusfromContig1991Alveolata-Paramecium_tetraurelia_strain_d4_2_g145518051 1.80E-77
ConsensusfromContig1992Alveolata-Paramecium_tetraurelia_strain_d4_2_g145518051 2.10E-168
ConsensusfromContig2309Alveolata-Paramecium_tetraurelia_strain_d4_2_g145520060 1.80E-12
ConsensusfromContig5225Alveolata-Paramecium_tetraurelia_strain_d4_2_g145520060 9.60E-11
ConsensusfromContig1949Alveolata-Paramecium_tetraurelia_strain_d4_2_g14553124 3.50E-13
ConsensusfromContig2474Alveolata-Perkinsus_marinus_ATCC_50983_g1294868102 1.50E-42
ConsensusfromContig2811Alveolata-Perkinsus_marinus_ATCC_50983_g1294876389 5.70E-15
ConsensusfromContig2074Alveolata-Perkinsus_marinus_ATCC_50983_g1294879611 3.90E-65
ConsensusfromContig2272Alveolata-Perkinsus_marinus_ATCC_50983_g1294889599 2.30E-64
ConsensusfromContig7447Alveolata-Perkinsus_marinus_ATCC_50983_g1294887509 1.50E-13
ConsensusfromContig3129Alveolata-Perkinsus_marinus_ATCC_50983_g1294889481 4.90E-94
ConsensusfromContig1944Alveolata-Perkinsus_marinus_ATCC_50983_g1294894141 6.00E-24
ConsensusfromContig2035Alveolata-Perkinsus_marinus_ATCC_50983_g1294894669 7.40E-28
ConsensusfromContig2488Alveolata-Perkinsus_marinus_ATCC_50983_g1294911603 1.40E-11
ConsensusfromContig3184Alveolata-Perkinsus_marinus_ATCC_50983_g1294917444 4.80E-42
ConsensusfromContig5789Alveolata-Perkinsus_marinus_ATCC_50983_g1294913439 1.30E-15
ConsensusfromContig1950Alveolata-Perkinsus_marinus_ATCC_50983_g1294932263 2.90E-32
ConsensusfromContig7490Alveolata-Perkinsus_marinus_ATCC_50983_g1294932732 1.50E-64
>E865128 AJA01176.fwd AJAO Karenia brevis Karbr Dark-phase Karenia brevis cDNA clone AJA01176 5', mRNA sequence.
>E867545 AJA02482.fwd AJAO Karenia brevis Karbr Dark-phase Karenia brevis cDNA clone AJA02482 5', mRNA sequence.
>E869753 AJA03689.fwd AJAO Karenia brevis Karbr Dark-phase Karenia brevis cDNA clone AJA03689 5', mRNA sequence.
>E876345 AJA07216.fwd AJAO Karenia brevis Karbr Dark-phase Karenia brevis cDNA clone AJA07216 5', mRNA sequence.
>E876584 AJA07342.fwd AJAO Karenia brevis Karbr Dark-phase Karenia brevis cDNA clone AJA07342 5', mRNA sequence.
>E878897 AJA0957.rev AJAO Karenia brevis Karbr Dark-phase Karenia brevis cDNA clone AJA0957 3', mRNA sequence.
>E878898 AJA0957.fwd AJAO Karenia brevis Karbr Dark-phase Karenia brevis cDNA clone AJA0957 5', mRNA sequence.
>E957364 CAGO10471.fwd CAGO Karenia brevis Karbr Stressed (light+5 combined stress conditions) Karenia brevis cDNA clone CAGO10471 3', mRNA sequence.
>E957364 CAGO10471.rev CAGO Karenia brevis Karbr Stressed (light+5 combined stress conditions) Karenia brevis cDNA clone CAGO10471 3', mRNA sequence.
>E961233 CAGO12488.fwd CAGO Karenia brevis Karbr Stressed (light+5 combined stress conditions) Karenia brevis cDNA clone CAGO12488 5', mRNA sequence.
>E961233 CAGO12488.fwd CAGO Karenia brevis Karbr Stressed (light+5 combined stress conditions) Karenia brevis cDNA clone CAGO12488 5', mRNA sequence.
>E962232 CAGO12488.fwd CAGO Karenia brevis Karbr Stressed (light+5 combined stress conditions) Karenia brevis cDNA clone CAGO12488 5', mRNA sequence.
>E962232 CAGO13015.fwd CAGO Karenia brevis Karbr Stressed (light+5 combined stress conditions) Karenia brevis cDNA clone CAGO13015 5', mRNA sequence.
>E965177 CAGO2167.fwd CAGO Karenia brevis Karbr Stressed (light+5 combined stress conditions) Karenia brevis cDNA clone CAGO2167 5', mRNA sequence.
>E966468 CAG051876.fwd CAGO Karenia brevis Karbr Stressed (light+5 combined stress conditions) Karenia brevis cDNA clone CAG051876 5', mRNA sequence.
>E968844 CAGO1471.fwd CAGO Karenia brevis Karbr Stressed (light+5 combined stress conditions) Karenia brevis cDNA clone CAGO1471 5', mRNA sequence.
>FK838091 K01111E10 Karenia brevis Multi-strain Library Karenia brevis cDNA 5', mRNA sequence.
>FK838091 K01111E10 Karenia brevis Multi-strain Library Karenia brevis cDNA 5', mRNA sequence.
>FK840470 K05191F05 Karenia brevis Multi-strain Library Karenia brevis cDNA 5', mRNA sequence.
>FK851233 K10031B05 Karenia brevis Multi-strain Library Karenia brevis cDNA 5', mRNA sequence.
>FK850253 K10031B05 Karenia brevis Multi-strain Library Karenia brevis cDNA 5', mRNA sequence.
>FK850253 K10031B05 Karenia brevis Multi-strain Library Karenia brevis cDNA 5', mRNA sequence.
>FK848999 K06051F02 Karenia brevis Multi-strain Library Karenia brevis cDNA 5', mRNA sequence.
>FK850476 est_k_brevis4357 Karenia brevis EST Library (L99-05) Karenia brevis cDNA, mRNA sequence.
>FK852054 K20041E07 Karenia brevis Multi-strain Library Karenia brevis cDNA 5', mRNA sequence.
>C0059622 est_k_brevis5851 Karenia brevis EST Library (L99-05) Karenia brevis cDNA, mRNA sequence.
>C0061735 est_k_brevis1311 Karenia brevis EST Library (L99-05) Karenia brevis cDNA, mRNA sequence.
>C0062157 est_k_brevis1734 Karenia brevis EST Library (L99-05) Karenia brevis cDNA, mRNA sequence.
>C0064746 est_k_brevis4357 Karenia brevis EST Library (L99-05) Karenia brevis cDNA, mRNA sequence.
>C0064803 est_k_brevis4414 Karenia brevis EST Library (L99-05) Karenia brevis cDNA, mRNA sequence.
>C0064803 est_k_brevis4414 Karenia brevis EST Library (L99-05) Karenia brevis cDNA, mRNA sequence.
>CD809870 575 Lingulodinium polyedrum Lingulodinium polyedrum cDNA clone Lp2384, mRNA sequence.
>CD809888 593 Lingulodinium polyedrum Lingulodinium polyedrum cDNA clone Lp2447, mRNA sequence.
>CD810440 1190 Lingulodinium polyedrum Lingulodinium polyedrum cDNA clone Lp489, mRNA sequence.
>BP742195 BP742195 Lingulodinium polyedrum cDNA Lingulodinium polyedrum cDNA clone LP13EST03A03, mRNA sequence.
>BP743253 BP743253 Lingulodinium polyedrum cDNA Lingulodinium polyedrum cDNA clone LP13EST26E09, mRNA sequence.
>BP743340 BP743340 Lingulodinium polyedrum cDNA Lingulodinium polyedrum cDNA clone LP13EST28G09, mRNA sequence.
>BP743678 BP743678 Lingulodinium polyedrum cDNA Lingulodinium polyedrum cDNA clone LP13EST37C08, mRNA sequence.
>BP744114 BP744114 Lingulodinium polyedrum cDNA Lingulodinium polyedrum cDNA clone LP13EST49B03, mRNA sequence.
>XP_001424243 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_001426260 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_001428259 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_001437139 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_001442479 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_001442650 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_001444993 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_001449903 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_001458991 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_001458967 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_001462237 hypothetical protein [Paramecium tetraurelia strain d4-2].
>XP_002765382 hypothetical protein Pmar_PMAR02378 [Perkinsus marinus ATCC 50983].
>XP_002767659 hypothetical protein Pmar_PMAR08603 [Perkinsus marinus ATCC 50983].
>XP_002768734 nexus protein 1, putative [Perkinsus marinus ATCC 50983].
>XP_002771492 cAMP-dependent protein kinase catalytic subunit isoform 2, putative [Perkinsus marinus ATCC 50983].
>XP_002772145 amp dependent ligase/synthetase, putative [Perkinsus marinus ATCC 50983].
>XP_002772834 beta-tubulin, putative [Perkinsus marinus ATCC 50983].
>XP_002774744 hypothetical protein Pmar_PMAR020309 [Perkinsus marinus ATCC 50983].
>XP_002774908 membrane associated RING finger, putative [Perkinsus marinus ATCC 50983].
>XP_002780181 peroxisomal abc transporter, putative [Perkinsus marinus ATCC 50983].
>XP_002787866 hypothetical protein [Perkinsus marinus ATCC 50983].
>XP_002798785 hypothetical protein Pmar_PMAR00273 [Perkinsus marinus ATCC 50983].
>XP_002780185 hypothetical protein Pmar_PMAR019084 [Perkinsus marinus ATCC 50983].
>XP_002780414 heat shock protein 70, putative [Perkinsus marinus ATCC 50983].

ConsensusfromContig1963Alveolata-Perkinsus_marinus_ATCC_50983_g1294935707
 ConsensusfromContig1963Alveolata-Perkinsus_marinus_ATCC_50983_g1294947886
 ConsensusfromContig1506Alveolata-Perkinsus_marinus_ATCC_50983_g1294953203
 ConsensusfromContig7273Alveolata-Plasmodium_berghel_str_ANKA_gi68076327
 ConsensusfromContig2280Alveolata-Symbiodinium_sp_C3_esContig322_1
 ConsensusfromContig2202Alveolata-Symbiodinium_sp_C3_esContig329_1
 ConsensusfromContig5547Alveolata-Symbiodinium_sp_C3_esg186959545_3
 ConsensusfromContig5209Alveolata-Symbiodinium_sp_C3_esg186959088_5
 ConsensusfromContig6931Alveolata-Symbiodinium_sp_C3_esg186963101_1
 ConsensusfromContig2475Alveolata-Symbiodinium_sp_C3_esg186963953_6
 ConsensusfromContig2896Alveolata-Symbiodinium_sp_C3_esg186963953_6
 ConsensusfromContig1048Alveolata-Tetrahymena_thermophila_gi118346309
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 ConsensusfromContig7402Alveolata-Tetrahymena_thermophila_gi118348690
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 ConsensusfromContig5110Amoebzoa-Dictyostelium_discoideum_AX4_gi111226606
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 ConsensusfromContig2057Amoebzoa-Hartmannella_vermiformis_tBHVLU00000742_3
 ConsensusfromContig6517Amoebzoa-Hartmannella_vermiformis_tBHVLU00001466_1

1.70E-72 >XP_002781499 hypothetical protein Pmar_PMAR015892 [Perkinsus marinus ATCC 50983].
 3.20E-14 >XP_002785509 vacuole membrane protein, putative [Perkinsus marinus ATCC 50983].
 6.00E-14 >XP_002787646 sodium/calcium exchanger, putative [Perkinsus marinus ATCC 50983].
 3.60E-16 >XP_680083 hypothetical protein [Plasmodium berghel strain ANKA].
 1.20E-15
 1.10E-54
 4.40E-24 >FE865971 Zoox20011116.g_056 Symbiodinium normalized stress library Lambda ZAP II Symbiodinium sp. C3 cDNA 5', mRNA sequence.
 2.70E-27 >FE865756 Zoox20011D121.g_093 Symbiodinium normalized stress library Lambda ZAP II Symbiodinium sp. C3 cDNA 5', mRNA sequence.
 1.20E-25 >FE865810 Zoox20009P18.g_067 Symbiodinium normalized stress library Lambda ZAP II Symbiodinium sp. C3 cDNA 5', mRNA sequence.
 1.30E-14 >FE865500 Zoox20008A17.g_079 Symbiodinium normalized stress library Lambda ZAP II Symbiodinium sp. C3 cDNA 5', mRNA sequence.
 7.60E-17 >FE865500 Zoox20008A17.g_079 Symbiodinium normalized stress library Lambda ZAP II Symbiodinium sp. C3 cDNA 5', mRNA sequence.
 1.20E-14 >XP_976852 ubiquitin-activating enzyme E1 family protein [Tetrahymena thermophila].
 2.60E-16 >XP_001007820 U-box domain containing protein [Tetrahymena thermophila].
 1.50E-33 >XP_001007820 U-box domain containing protein [Tetrahymena thermophila].
 1.10E-16 >XP_001011521 hypothetical protein TTHERM_00784630 [Tetrahymena thermophila].
 1.10E-16 >XP_001011521 hypothetical protein TTHERM_00784630 [Tetrahymena thermophila].
 1.10E-24 >XP_001014380 hypothetical protein TTHERM_00522020 [Tetrahymena thermophila].
 6.90E-17 >XP_001019702 Tubulin-tyrosine ligase family protein [Tetrahymena thermophila].
 8.90E-14 >XP_001021775 ABC transporter family protein [Tetrahymena thermophila].
 5.60E-12 >XP_001013003 Phosphatidylinositol 3- and 4-kinase family protein [Tetrahymena thermophila].
 1.40E-12 >XP_001470898 Serine/threonine-protein kinase, putative [Tetrahymena thermophila].
 5.20E-21 >XP_001024292 hypothetical protein [Tetrahymena thermophila SB210].
 2.30E-36 >XP_001024292 hypothetical protein [Tetrahymena thermophila SB210].
 3.20E-14 >XP_001029114 hypothetical protein [Tetrahymena thermophila SB210].
 2.30E-12 >XP_001029114 hypothetical protein [Tetrahymena thermophila SB210].
 1.80E-21 >XP_001029114 hypothetical protein [Tetrahymena thermophila SB210].
 1.40E-17 >XP_001029114 hypothetical protein [Tetrahymena thermophila SB210].
 3.00E-15 >XP_002365195 folate/methotrexate transporter, putative [Toxoplasma gondii ME49].
 1.70E-12 >XP_002366266 cAMP-dependent protein kinase catalytic subunit, putative [Toxoplasma gondii ME49].
 2.50E-13 >XP_002369463 zinc transporter ZIP domain-containing protein [Toxoplasma gondii ME49].
 1.10E-14 >XP_002370251 type I fatty acid synthase, putative [Toxoplasma gondii ME49].
 3.30E-156 >XP_002370251 type I fatty acid synthase, putative [Toxoplasma gondii ME49].
 1.70E-11 >XP_002370251 type I fatty acid synthase, putative [Toxoplasma gondii ME49].
 1.70E-11 >XP_002370251 type I fatty acid synthase, putative [Toxoplasma gondii ME49].
 1.10E-34
 2.00E-17
 1.30E-52
 1.20E-42
 2.50E-33
 1.60E-13
 8.60E-29 >XP_641288 hypothetical protein DDB_G0280375 [Dictyostelium discoideum AX4].
 9.50E-18 >XP_641288 hypothetical protein DDB_G0280375 [Dictyostelium discoideum AX4].
 3.60E-18 >XP_629800 hypothetical protein DDB_G0292060 [Dictyostelium discoideum AX4].
 4.70E-29 >XP_635129 serine hydroxymethyltransferase [Dictyostelium discoideum AX4].
 2.20E-15 >XP_635161 chaperonin containing TCP1 beta subunit [Dictyostelium discoideum AX4].
 3.00E-17 >XP_635330 hypothetical protein DDB_G0291688 [Dictyostelium discoideum AX4].
 1.50E-16 >XP_635330 hypothetical protein DDB_G0291688 [Dictyostelium discoideum AX4].
 3.80E-29 >XP_635338 hypothetical protein DDB_G0291223 [Dictyostelium discoideum AX4].
 1.20E-13 >XP_636952 hypothetical protein DDB_G0288041 [Dictyostelium discoideum AX4].
 2.30E-19 >XP_637643 vacuolar protein sorting-associated protein 13 family protein [Dictyostelium discoideum AX4].
 2.20E-28 >XP_638150 WD40 repeat-containing protein [Dictyostelium discoideum AX4].
 2.20E-28 >XP_638150 WD40 repeat-containing protein [Dictyostelium discoideum AX4].
 2.30E-20 >XP_638880 actin-like protein [Dictyostelium discoideum AX4].
 9.20E-35 >XP_640847 kinesin family member 3 [Dictyostelium discoideum AX4].
 2.70E-49 >XP_641424 myosin light chain kinase [Dictyostelium discoideum AX4].
 1.10E-16 >XP_641424 myosin light chain kinase [Dictyostelium discoideum AX4].
 3.20E-43 >XP_641686 protein kinase A regulatory subunit [Dictyostelium discoideum AX4].
 2.90E-12 >XP_641971 IPT/TIG domain-containing protein [Dictyostelium discoideum AX4].
 1.50E-18 >XP_643509 hypothetical protein DDB_G0275443 [Dictyostelium discoideum AX4].
 2.40E-17 >XP_643820 phosphatidylinositol-4,5-diphosphate 3-kinase [Dictyostelium discoideum AX4].
 4.70E-19 >XP_644171 class VII unconventional myosin [Dictyostelium discoideum AX4].
 4.70E-19 >XP_644171 class VII unconventional myosin [Dictyostelium discoideum AX4].
 1.80E-60 >XP_645596 hypothetical protein DDB_G0271550 [Dictyostelium discoideum AX4].
 6.80E-90 >XP_645920 P-type ATPase [Dictyostelium discoideum AX4].
 9.80E-29 >XP_646078 hypothetical protein DDB_G0269194 [Dictyostelium discoideum AX4].
 7.30E-37 >XP_646176 transcription factor Jumo1n, JmjC domain-containing protein [Dictyostelium discoideum AX4].
 6.70E-11 >XP_646837 hypothetical protein DDB_G0268922 [Dictyostelium discoideum AX4].
 1.90E-31 >XP_647148 hypothetical protein DDB_G0267588 [Dictyostelium discoideum AX4].
 5.20E-17
 3.30E-13
 3.20E-17
 4.90E-22
 1.90E-65
 6.30E-67
 4.10E-13
 1.30E-16
 1.40E-52
 2.90E-14
 7.50E-24
 2.20E-46
 7.10E-14
 2.30E-13
 6.10E-71
 7.50E-15
 6.10E-22
 1.30E-47
 4.10E-17
 7.50E-24
 6.10E-158
 7.50E-12
 2.70E-39
 9.50E-81
 1.50E-19
 3.90E-50
 1.80E-34
 1.90E-61
 1.60E-14 >XP_001914113 hypothetical protein [Entamoeba histolytica HM-1:IMSS].
 5.70E-29 >XP_652598 Rab family GTPase [Entamoeba histolytica HM-1:IMSS].

ConsensusfromContig2680BacteroidetesChlorobi-Pedobacter_heparinus_DSM_2366_gi255530878
ConsensusfromContig6041BacteroidetesChlorobi-Pedobacter_heparinus_DSM_2366_gi255531479
ConsensusfromContig2387BacteroidetesChlorobi-Pedobacter_heparinus_DSM_2366_gi255532585
ConsensusfromContig1108BacteroidetesChlorobi-Pedobacter_heparinus_DSM_2366_gi255532869
ConsensusfromContig2099BacteroidetesChlorobi-Pedobacter_heparinus_DSM_2366_gi255533375
ConsensusfromContig5099BacteroidetesChlorobi-Psychroflexus_torquis_ATCC_700755_gi91219368
ConsensusfromContig2371BacteroidetesChlorobi-Polaribacter_irgensii_23_P_gi88801469
ConsensusfromContig5109BacteroidetesChlorobi-Polaribacter_irgensii_23_P_gi88802112
ConsensusfromContig3540BacteroidetesChlorobi-Prevotella_melaninogenica_ATCC_25845_gi252120629
ConsensusfromContig1959BacteroidetesChlorobi-Psychroflexus_torquis_ATCC_700755_gi91219288
ConsensusfromContig9743BacteroidetesChlorobi-Psychroflexus_torquis_ATCC_700755_gi91219368
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ConsensusfromContig6954BacteroidetesChlorobi-Rhodothermus_marinus_DSM_4252_gi268315846
ConsensusfromContig1027BacteroidetesChlorobi-Rhodothermus_marinus_DSM_4252_gi268316196
ConsensusfromContig1982BacteroidetesChlorobi-Robiginitalea_biformata_HTC2501_gi260061206
ConsensusfromContig3558BacteroidetesChlorobi-Robiginitalea_biformata_HTC2501_gi260061943
ConsensusfromContig6450BacteroidetesChlorobi-Robiginitalea_biformata_HTC2501_gi260061943
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ConsensusfromContig2006BacteroidetesChlorobi-Spirosoma_linguale_DSM_74_gi284036778
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ConsensusfromContig2309BacteroidetesChlorobi-Zunongwangia_profunda_SM_A87_gi295133599
ConsensusfromContig439BacteroidetesChlorobi-Zunongwangia_profunda_SM_A87_gi295134875
ConsensusfromContig4507ChlamydiaeVerrucomicrobia-bacterium_Ellin514_gi223935677
ConsensusfromContig5133ChlamydiaeVerrucomicrobia-bacterium_Ellin514_gi223936752
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ConsensusfromContig1963ChlamydiaeVerrucomicrobia-Chlamydia_phiila_caviae_GPIC_gi29839958
ConsensusfromContig1941ChlamydiaeVerrucomicrobia-Chthoniobacter_flavus_Ellin428_gi196228361
ConsensusfromContig6591ChlamydiaeVerrucomicrobia-Chthoniobacter_flavus_Ellin428_gi196228954
ConsensusfromContig1802ChlamydiaeVerrucomicrobia-Chthoniobacter_flavus_Ellin428_gi196230743
ConsensusfromContig1802ChlamydiaeVerrucomicrobia-Chthoniobacter_flavus_Ellin428_gi196230743
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ConsensusfromContig2637ChlamydiaeVerrucomicrobia-Chthoniobacter_flavus_Ellin428_gi196232340
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ConsensusfromContig1422ChlamydiaeVerrucomicrobia-Chthoniobacter_flavus_Ellin428_gi196233916
ConsensusfromContig5134ChlamydiaeVerrucomicrobia-Coralimargarita_akajimensis_DSM_45221_gi294053897
ConsensusfromContig7012ChlamydiaeVerrucomicrobia-Coralimargarita_akajimensis_DSM_45221_gi294056641
ConsensusfromContig2307ChlamydiaeVerrucomicrobia-Lentisphaera_araneosa_HTC2155_gi149196027
ConsensusfromContig5182ChlamydiaeVerrucomicrobia-Lentisphaera_araneosa_HTC2155_gi149196027
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ConsensusfromContig2426ChlamydiaeVerrucomicrobia-Lentisphaera_araneosa_HTC2155_gi149198979
ConsensusfromContig6992ChlamydiaeVerrucomicrobia-Methylophilum_infernum_V4_gi189218158
ConsensusfromContig1969ChlamydiaeVerrucomicrobia-Opitutaceae_bacterium_TAV2_gi225155800
ConsensusfromContig1031ChlamydiaeVerrucomicrobia-Opitutaceae_bacterium_TAV2_gi225159363
ConsensusfromContig5175ChlamydiaeVerrucomicrobia-Opitutaceae_bacterium_TAV2_gi225165732
ConsensusfromContig2348ChlamydiaeVerrucomicrobia-Opitutaceae_bacterium_TAV2_gi225165944
ConsensusfromContig2243ChlamydiaeVerrucomicrobia-Opitutaceae_bacterium_TAV2_gi225166080
ConsensusfromContig1991ChlamydiaeVerrucomicrobia-Opitutus_terrae_PB90_1_gi182413780
ConsensusfromContig5120ChlamydiaeVerrucomicrobia-Opitutus_terrae_PB90_1_gi182414669
ConsensusfromContig2077ChlamydiaeVerrucomicrobia-Opitutus_terrae_PB90_1_gi182414787
ConsensusfromContig2033ChlamydiaeVerrucomicrobia-Parachlamydia_acanthamoebae_str_Halls_coccus_gi282891348
ConsensusfromContig1963ChlamydiaeVerrucomicrobia-Verrucomicrobia_bacterium_DG1235_gi25446605
ConsensusfromContig2291ChlamydiaeVerrucomicrobia-Verrucomicrobium_spinosum_DSM_4136_gi171910146
ConsensusfromContig5192ChlamydiaeVerrucomicrobia-Verrucomicrobium_spinosum_DSM_4136_gi171910726
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ConsensusfromContig1894ChlamydiaeVerrucomicrobia-Victivallis_vadensis_ATCC_BAA_548_gi281356918
ConsensusfromContig5205Chloroflexi-Chloroflexus_aggregans_DSM_9485_gi219847607
ConsensusfromContig2001Chloroflexi-Chloroflexus_aggregans_DSM_9485_gi219848899
ConsensusfromContig2750Chloroflexi-Herpetosiphon_aurantiacus_ATCC_23779_gi159896978
ConsensusfromContig2024Chloroflexi-Ktedonobacter_racemifer_DSM_44963_gi298242984
ConsensusfromContig7148Chloroflexi-Ktedonobacter_racemifer_DSM_44963_gi298242984
ConsensusfromContig2350Chloroflexi-Ktedonobacter_racemifer_DSM_44963_gi298243025
ConsensusfromContig5128Chloroflexi-Roseiflexus_castenholzii_DSM_13941_gi156741854
ConsensusfromContig5624Chloroflexi-Roseiflexus_castenholzii_DSM_13941_gi156742824
ConsensusfromContig6946Chloroflexi-Roseiflexus_castenholzii_DSM_13941_gi156743320
ConsensusfromContig7024Chloroflexi-Roseiflexus_castenholzii_DSM_13941_gi156743776
ConsensusfromContig4839Chloroflexi-Roseiflexus_castenholzii_DSM_13941_gi156744335
ConsensusfromContig2364Chloroflexi-Roseiflexus_sp_RS_1_gi148656852
7.60E-11 >YP_003091250 hypothetical protein Phep_0966 [Pedobacter heparinus DSM 2366].
6.10E-15 >YP_003091250 hypothetical protein Phep_0966 [Pedobacter heparinus DSM 2366].
4.40E-15 >YP_003092957 hypothetical glycosyl hydrolase family 88 [Pedobacter heparinus DSM 2366].
3.40E-11 >YP_003093241 NHL repeat containing protein [Pedobacter heparinus DSM 2366].
8.30E-26 >YP_003093747 hypothetical protein Phep_3494 [Pedobacter heparinus DSM 2366].
5.30E-14 >YP_003095151 hypothetical protein Phep_3494 [Pedobacter heparinus DSM 2366].
7.00E-17 >XP_01116997 AAA ATPase, CDC48 [Polaribacter irgensii 23-P].
2.40E-64 >XP_01117640 sulfate transporter [Polaribacter irgensii 23-P].
1.30E-15 >XP_04834251 surface antigen BspA [Prevotella melaninogenica ATCC 25845].
2.40E-15 >XP_01255997 hypothetical protein P700755_21651 [Psychroflexus torquis ATCC 700755].
5.30E-14 >XP_01256050 hypothetical protein P700755_24321 [Psychroflexus torquis ATCC 700755].
5.30E-14 >XP_01256050 hypothetical protein P700755_24321 [Psychroflexus torquis ATCC 700755].
5.30E-23 >XP_01257512 hypothetical protein P700755_29183 [Psychroflexus torquis ATCC 700755].
5.10E-17 >XP_003289565 hypothetical protein Rmar_0271 [Rhodothermus marinus DSM 4252].
4.20E-14 >XP_003289915 phenazine biosynthesis protein Phep_PhaZ family [Rhodothermus marinus DSM 4252].
3.10E-15 >YP_003194286 hypothetical protein RB2501_06395 [Robiginitalea biformata HTCC2501].
2.10E-12 >YP_003195023 putative secreted protein [Robiginitalea biformata HTCC2501].
6.30E-11 >YP_003195023 putative secreted protein [Robiginitalea biformata HTCC2501].
1.20E-29 >YP_003195674 hypothetical protein RB2501_13424 [Robiginitalea biformata HTCC2501].
2.90E-29 >YP_003196474 hypothetical protein RB2501_01256 [Robiginitalea biformata HTCC2501].
1.70E-12 >YP_045269 penicillin amidase superfamily protein [Salinibacter ruber DSM 13855].
2.70E-12 >YP_003391683 oxidoreductase molybdopter binding protein [Spirosoma linguale DSM 74].
9.20E-12 >YP_003385744 glycosyl transferase family 2 [Spirosoma linguale DSM 74].
4.50E-12 >YP_003386048 fumarylacetoacetate (FAA) hydrolase [Spirosoma linguale DSM 74].
1.60E-12 >YP_003386192 hypothetical protein Slin_1343 [Spirosoma linguale DSM 74].
3.60E-15 >YP_003386192 hypothetical protein Slin_1343 [Spirosoma linguale DSM 74].
4.80E-46 >YP_003386708 protein of unknown function DUF323 [Spirosoma linguale DSM 74].
6.80E-18 >YP_003387445 glycosyl hydrolase BHR repeat-containing protein [Spirosoma linguale DSM 74].
4.70E-22 >YP_003387789 hypothetical protein Slin_2978 [Spirosoma linguale DSM 74].
2.20E-12 >YP_003387789 hypothetical protein Slin_2978 [Spirosoma linguale DSM 74].
4.90E-17 >YP_003388386 alpha-L-rhamnosidase [Spirosoma linguale DSM 74].
3.10E-23 >YP_003388828 glycoside hydrolase family 2 sugar binding protein [Spirosoma linguale DSM 74].
5.00E-14 >YP_003584275 selenocysteine synthase (seryl-tRNA-Ser selenin transferase) [Zunongwangia profunda SM-A87].
3.00E-11 >YP_003585551 beta-glucosidase [Zunongwangia profunda SM-A87].
1.00E-16 >XP_03627593 Sell domain protein repeat-containing protein [bacterium Ellin514].
1.30E-78 >XP_03628662 putative esterase [bacterium Ellin514].
2.30E-29 >XP_03629222 hypothetical protein Clav_PD3526 [bacterium Ellin514].
4.70E-23 >XP_03629252 conserved hypothetical protein [bacterium Ellin514].
8.30E-23 >XP_03629252 conserved hypothetical protein [bacterium Ellin514].
1.00E-11 >XP_03629536 alpha-L-rhamnosidase [bacterium Ellin514].
1.50E-11 >XP_03631657 acetylornithine and succinylornithine aminotransferase [bacterium Ellin514].
7.30E-24 >XP_03631657 acetylornithine and succinylornithine aminotransferase [bacterium Ellin514].
1.70E-18 >NP_829648 hypothetical protein TC0114 [Chlamydia muridarum Nigg].
6.90E-16 >NP_829604 30S ribosomal protein S7 [Chlamydia phiila caviae GPIC].
9.20E-14 >XP_03127228 Exo-poly-alpha-galacturonosidase [Chthoniobacter flavus Ellin428].
6.30E-16 >XP_03127820 beta-lactamase [Chthoniobacter flavus Ellin428].
1.10E-25 >XP_03129604 protein of unknown function DUF1501 [Chthoniobacter flavus Ellin428].
1.10E-25 >XP_03129604 protein of unknown function DUF1501 [Chthoniobacter flavus Ellin428].
6.40E-12 >XP_03131065 hypothetical protein CFE428DRAFT_4231 [Chthoniobacter flavus Ellin428].
7.60E-12 >XP_03131194 putative secreted protein, putative xanthan lyase related [Chthoniobacter flavus Ellin428].
4.10E-22 >XP_03131711 Phytanoyl-CoA dioxygenase [Chthoniobacter flavus Ellin428].
6.90E-12 >XP_03131711 Phytanoyl-CoA dioxygenase [Chthoniobacter flavus Ellin428].
4.00E-51 >YP_003547555 hypothetical protein Caka_0360 [Coralimargarita akajimensis DSM 45221].
1.80E-67 >YP_003550299 hypothetical protein Caka_3116 [Coralimargarita akajimensis DSM 45221].
1.70E-18 >XP_01873083 hypothetical protein LNTAR_22814 [Lentisphaera araneosa HTCC2155].
2.70E-16 >XP_01873083 hypothetical protein LNTAR_22814 [Lentisphaera araneosa HTCC2155].
2.70E-16 >XP_01873353 hypothetical protein LNTAR_1412 [Lentisphaera araneosa HTCC2155].
3.40E-50 >XP_01875055 hypothetical protein LNTAR_21460 [Lentisphaera araneosa HTCC2155].
9.00E-22 >XP_01875149 beta-glucanase precursor [Lentisphaera araneosa HTCC2155].
1.50E-58 >XP_01876020 sucrose-6-phosphate hydrolase [Lentisphaera araneosa HTCC2155].
1.00E-53 >YP_001938800 SAM-dependent methyltransferase [Methylophilum infernum V4].
5.30E-23 >XP_03724287 alpha-L-rhamnosidase [Opitutaceae bacterium TAV2].
1.40E-13 >XP_03725660 hypothetical protein ObacDRAFT_7513 [Opitutaceae bacterium TAV2].
7.30E-20 >XP_03727527 hypothetical protein ObacDRAFT_5992 [Opitutaceae bacterium TAV2].
5.70E-14 >XP_03727705 hypothetical protein ObacDRAFT_5458 [Opitutaceae bacterium TAV2].
3.40E-11 >XP_03727817 sialic acid-specific 9-O-acetyltransferase [Opitutaceae bacterium TAV2].
3.60E-87 >YP_001818846 Beta-ketoacyl synthase [Opitutus terrae PB90-1].
3.80E-13 >YP_001819735 SMP-30/gluconolactonase/LRE domain-containing protein [Opitutus terrae PB90-1].
1.30E-60 >YP_001819853 Alpha-L-fucosidase [Opitutus terrae PB90-1].
6.50E-35 >XP_06299850 hypothetical protein pah_c0500147 [Parachlamydia acanthamoebae str. Hall's coccus].
2.00E-26 >XP_05060081 oxidoreductase, aldo/keto reductase family [Verrucomicrobia bacterium DG1235].
4.70E-14 >XP_02925616 hypothetical protein Vspid_03220 [Verrucomicrobium spinosum DSM 4136].
3.00E-39 >XP_02926196 O-acetylhomoserine/O-acetylserine sulfurylase [Verrucomicrobium spinosum DSM 4136].
2.50E-69 >XP_02926196 O-acetylhomoserine/O-acetylserine sulfurylase [Verrucomicrobium spinosum DSM 4136].
7.00E-11 >XP_02926484 Sialidase [Verrucomicrobium spinosum DSM 4136].
1.70E-14 >XP_02927431 cobalamin synthesis protein, P47K [Verrucomicrobium spinosum DSM 4136].
7.40E-20 >XP_02927447 hypothetical protein Vspid_12395 [Verrucomicrobium spinosum DSM 4136].
3.70E-20 >XP_02928016 putative esterase [Verrucomicrobium spinosum DSM 4136].
1.40E-14 >XP_02928199 hypothetical protein Vspid_19235 [Verrucomicrobium spinosum DSM 4136].
8.70E-18 >XP_06241967 hypothetical protein Vvad_PD3579 [Victivallis vadensis ATCC BAA-548].
5.50E-14 >XP_06241968 hypothetical protein Vvad_PD3580 [Victivallis vadensis ATCC BAA-548].
5.50E-14 >XP_06241968 hypothetical protein Vvad_PD3580 [Victivallis vadensis ATCC BAA-548].
5.50E-24 >XP_06242280 Beta-agarase [Victivallis vadensis ATCC BAA-548].
5.10E-22 >XP_06242280 Beta-agarase [Victivallis vadensis ATCC BAA-548].
8.70E-28 >XP_06242280 Beta-agarase [Victivallis vadensis ATCC BAA-548].
4.00E-17 >XP_06242855 hypothetical protein Vvad_PD1734 [Victivallis vadensis ATCC BAA-548].
1.60E-30 >XP_06242863 alpha-galactosidase [Victivallis vadensis ATCC BAA-548].
1.40E-14 >XP_02924349 hypothetical protein Vspid_P01436 [Verrucomicrobium spinosum DSM 4136].
8.90E-60 >YP_002462040 regulator of chromosome condensation RCC1 [Chloroflexus aggregans DSM 9485].
9.20E-32 >YP_00246332 Na-Ca exchanger/integrin-beta4 [Chloroflexus aggregans DSM 9485].
4.50E-12 >YP_001545925 hypothetical protein Haur_3160 [Herpetosiphon aurantiacus ATCC 23779].
1.90E-11 >XP_06966791 Aramidase [Ktedonobacter racemifer DSM 44963].
1.60E-27 >XP_06966791 Aramidase [Ktedonobacter racemifer DSM 44963].
2.10E-27 >XP_06966832 Phytanoyl-CoA dioxygenase [Ktedonobacter racemifer DSM 44963].
4.40E-52 >YP_001431983 alpha-L-rhamnosidase [Roseiflexus castenholzii DSM 13941].
4.70E-11 >YP_001432953 polymorphic outer membrane protein [Roseiflexus castenholzii DSM 13941].
2.10E-12 >YP_001433449 serine/threonine protein kinase [Roseiflexus castenholzii DSM 13941].
1.30E-30 >YP_001433905 hypothetical protein Rcsa_3850 [Roseiflexus castenholzii DSM 13941].
1.60E-15 >YP_001434464 asparaginase [Roseiflexus castenholzii DSM 13941].
1.30E-16 >YP_001277057 alpha-L-rhamnosidase [Roseiflexus sp. RS-1].

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1.70E-12 >EC166924 MNE00001537 Monosiga ovata Non-normalized Monosiga ovata cDNA, mRNA sequence.
8.10E-13 >EC167646 MNE00003933 Monosiga ovata Non-normalized Monosiga ovata cDNA, mRNA sequence.

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ConsensusfromContig5989Cyanobacteria-Nostoc_punctiforme_PCC_73102_gi186683375
ConsensusfromContig5987Cyanobacteria-Nostoc_punctiforme_PCC_73102_gi186683584
ConsensusfromContig2516Cyanobacteria-Nostoc_punctiforme_PCC_73102_gi186686830
ConsensusfromContig8469Cyanobacteria-Nostoc_sp_PCC_7120_gi17230171
ConsensusfromContig7015Cyanobacteria-Prochlorococcus_marinus_str_MIT_9211_gi159904079
ConsensusfromContig26_Cyanobacteria-Prochlorococcus_marinus_str_MIT_9301_gi126696593
ConsensusfromContig1962Cyanobacteria-Synechococcus_elongatus_PCC_7942_gi81300390
5.20E-13 >EC168600 MNE0001837 Monosiga ovata Non-normalized Monosiga ovata cDNA, mRNA sequence.
8.10E-13 >EC168766 MNE0000495 Monosiga ovata Non-normalized Monosiga ovata cDNA, mRNA sequence.
3.20E-12 >DC470945 DC470945 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-030H24 3', mRNA sequence.
9.40E-25 >DC482175 DC482175 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-046M07 3', mRNA sequence.
1.30E-38 >DC482175 DC482175 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-046M07 3', mRNA sequence.
1.80E-40 >DC484589 DC484589 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-050D17 3', mRNA sequence.
7.90E-23 >DC474565 DC474565 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-035L11 3', mRNA sequence.
8.50E-17 >DC474917 DC474917 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-036D13 3', mRNA sequence.
2.30E-40 >DC452793 DC452793 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-004B04 3', mRNA sequence.
1.30E-38 >DC452794 DC452794 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-004B04 3', mRNA sequence.
1.30E-40 >DC452794 DC452794 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-004B04 3', mRNA sequence.
5.20E-12 >DC452794 DC452794 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-004B04 3', mRNA sequence.
2.40E-19 >DC456449 DC456449 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-009G22 3', mRNA sequence.
7.90E-11 >DC465568 DC465568 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-02220 5', mRNA sequence.
2.40E-15 >DC465623 DC465623 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-022L04 5', mRNA sequence.
4.70E-24 >DC486748 DC486748 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-053F06 3', mRNA sequence.
3.60E-11 >DC486802 DC486802 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-053G13 3', mRNA sequence.
2.60E-21 >DC489199 DC489199 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-056N21 3', mRNA sequence.
7.90E-17 >DC490765 DC490765 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-059B08 3', mRNA sequence.
7.90E-17 >DC490765 DC490765 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-059B08 3', mRNA sequence.
8.70E-14 >DC498980 DC498980 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-070N10 3', mRNA sequence.
7.80E-17 >DC498980 DC498980 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-070N10 3', mRNA sequence.
7.30E-23 >DC498980 DC498980 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-070N10 3', mRNA sequence.
2.00E-11 >DC499806 DC499806 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-072C10 5', mRNA sequence.
8.50E-11 >DC499837 DC499837 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-072D02 3', mRNA sequence.
2.90E-12 >DC503112 DC503112 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-076P11 3', mRNA sequence.
8.30E-12 >DC503112 DC503112 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-076P11 3', mRNA sequence.
4.60E-25 >DC502513 DC502513 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-076B14 5', mRNA sequence.
3.40E-14 >DC502049 DC502049 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-075G15 3', mRNA sequence.
2.20E-11 >DC502050 DC502050 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-075G15 3', mRNA sequence.
2.20E-11 >DC502050 DC502050 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-075G15 3', mRNA sequence.
1.90E-62 >DC504833 DC504833 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-079H04 5', mRNA sequence.
8.30E-17 >DC505436 DC505436 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-080E20 5', mRNA sequence.
2.00E-16 >DC505437 DC505437 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-080E20 5', mRNA sequence.
4.00E-16 >DC507352 DC507352 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-083B07 5', mRNA sequence.
8.50E-14 >DC507360 DC507360 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-083B11 3', mRNA sequence.
5.50E-14 >DC511147 DC511147 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-088I19 5', mRNA sequence.
1.50E-26 >DC512182 DC512182 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-090A20 5', mRNA sequence.
2.50E-11 >DC517172 DC517172 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-097D19 5', mRNA sequence.
1.50E-24 >DC517172 DC517172 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-097D19 5', mRNA sequence.
4.40E-16 >DC517172 DC517172 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-097D19 5', mRNA sequence.
6.80E-14 >DC517172 DC517172 Full length cDNA Library, Monosiga ovata, MOC Monosiga ovata cDNA clone MOC-097D19 5', mRNA sequence.
2.90E-39 >E5558581 GA05M139_G10.ab1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
4.90E-14 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
5.40E-56 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
8.00E-14 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
1.30E-28 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
1.40E-17 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
9.90E-22 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
1.90E-17 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
5.70E-17 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
1.90E-17 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
1.10E-14 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
1.90E-17 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
5.70E-15 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
1.90E-17 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
1.10E-17 >E5558748 GA04I2T3_A08.ab15190519AB1 GONIO-CCMP-05 Goniomonas cf. pacifica cDNA 3', mRNA sequence.
1.20E-15 >YF_001515589 FG-GAP repeat- calx-beta domain-containing protein [Acaryochloris marina MBI11017].
1.00E-18 >YF_001516126 peptidylprolyl isomerase, FKBP type [Acaryochloris marina MBI11017].
1.10E-21 >YF_001516224 hypothetical protein AM1_1890 [Acaryochloris marina MBI11017].
5.20E-12 >YF_001517423 appr-1-p processing enzyme family protein [Acaryochloris marina MBI11017].
3.20E-25 >YF_001520884 non-ribosomal peptide synthetase [Acaryochloris marina MBI11017].
1.80E-12 >ZP_06382504 hypothetical protein AplaP_12573 [Arthrospira platensis str. Paraca].
1.10E-24 >ZP_06382715 cobalamin synthesis protein P47K [Arthrospira platensis str. Paraca].
4.40E-19 >ZP_06383803 magnesium and cobalt transport protein CorA [Arthrospira platensis str. Paraca].
1.20E-31 >ZP_01732662 hypothetical protein CY0110_00950 [Cyanothecce sp. CCY0110].
1.20E-31 >ZP_01732662 hypothetical protein CY0110_00950 [Cyanothecce sp. CCY0110].
2.90E-12 >ZP_002375782 foliate/diopterin transporter [Cyanothecce sp. PCC 7424].
5.20E-14 >YF_002375838 peptidylprolyl isomerase FKBP-type [Cyanothecce sp. PCC 7424].
2.00E-11 >YF_002484484 hypothetical protein Cyan7425_3804 [Cyanothecce sp. PCC 7425].
9.20E-16 >ZP_03156190 TPR repeat-containing protein [Cyanothecce sp. PCC 7822].
2.30E-33 >NP_923586 glucosamine-6-sulfatase [Gloeobacter violaceus PCC 7421].
1.10E-16 >NP_923586 glucosamine-6-sulfatase [Gloeobacter violaceus PCC 7421].
4.00E-13 >ZP_01621102 Rab family protein [Lyngbya sp. PCC 8106].
2.60E-21 >ZP_01623589 NAD-dependent epimerase/dehydratase [Lyngbya sp. PCC 8106].
2.10E-17 >ZP_05023237 Penicillin amidase superfamily [Microcoleus chthonoplastes PCC 7420].
2.70E-11 >ZP_05023505 tetratricopeptide repeat domain protein [Microcoleus chthonoplastes PCC 7420].
2.70E-11 >ZP_05023505 tetratricopeptide repeat domain protein [Microcoleus chthonoplastes PCC 7420].
9.90E-28 >ZP_05024041 C-5 cytosine-specific DNA methylase superfamily [Microcoleus chthonoplastes PCC 7420].
1.00E-14 >ZP_05025244 Leucine Rich Repeat domain protein [Microcoleus chthonoplastes PCC 7420].
3.50E-12 >ZP_05028507 hypothetical protein MC7420_3763 [Microcoleus chthonoplastes PCC 7420].
7.30E-16 >ZP_05030174 Leucine Rich Repeat domain protein [Microcoleus chthonoplastes PCC 7420].
4.50E-12 >ZP_05030174 Leucine Rich Repeat domain protein [Microcoleus chthonoplastes PCC 7420].
3.70E-28 >ZP_05030174 Leucine Rich Repeat domain protein [Microcoleus chthonoplastes PCC 7420].
4.00E-33 >ZP_05030174 Leucine Rich Repeat domain protein [Microcoleus chthonoplastes PCC 7420].
3.20E-36 >ZP_05031299 dieneolactone hydrolase family [Microcoleus chthonoplastes PCC 7420].
1.10E-11 >NP_016179 polyketide synthase [Nostoc sp. PCC 7120].
3.20E-35 >YF_003722991 hypothetical protein Aazo_4641 [Nostoc azollae] 0708].
2.30E-17 >YF_001864361 TPR repeat-containing protein [Nostoc punctiforme PCC 73102].
1.40E-14 >YF_001865065 hypothetical protein Npun_F1415 [Nostoc punctiforme PCC 73102].
3.30E-16 >YF_001865065 hypothetical protein Npun_F1415 [Nostoc punctiforme PCC 73102].
6.60E-21 >YF_001865643 beta-ketoacyl synthase [Nostoc punctiforme PCC 73102].
1.50E-40 >YF_001866571 beta-ketoacyl synthase [Nostoc punctiforme PCC 73102].
7.50E-11 >YF_001866780 beta-ketoacyl synthase [Nostoc punctiforme PCC 73102].
1.70E-13 >YF_001870023 TPR repeat-containing protein [Nostoc punctiforme PCC 73102].
1.10E-11 >YF_00186719 polyketide synthase [Nostoc sp. PCC 7120].
1.80E-15 >YF_001551423 hypothetical protein P9211_15381 [Prochlorococcus marinus str. MIT 9211].
1.00E-23 >YF_001091479 hypothetical protein P9301_12551 [Prochlorococcus marinus str. MIT 9301].
1.70E-47 >YF_400598 peptidase M14, carboxypeptidase A [Synechococcus elongatus PCC 7942].

ConsensusfromContig2740Cyanobacteria-Synechococcus_sp_JA_2_3Ba_2_13_g086609330 4.20E-18 >XP_478092 isopenicillin N-epimerase [Synechococcus sp. JA-2-3B/a(2-13)].
 ConsensusfromContig2741Cyanobacteria-Synechococcus_sp_PCC_7335_gi254424572 2.00E-20 >XP_05038290 Miro-like protein [Synechococcus sp. PCC 7335].
 ConsensusfromContig2106Cyanobacteria-Synechococcus_sp_PCC_7335_gi254425464 1.40E-12 >XP_05039181 Cna protein B-type domain [Synechococcus sp. PCC 7335].
 ConsensusfromContig2106Cyanobacteria-Synechococcus_sp_PCC_7335_gi254425464 1.40E-12 >XP_05039181 Cna protein B-type domain [Synechococcus sp. PCC 7335].
 ConsensusfromContig3117Cyanobacteria-Synechococcus_sp_WH_5701_gi87300681 2.90E-17 >XP_01083523 hypothetical protein WH5701_04515 [Synechococcus sp. WH 5701].
 ConsensusfromContig7054Cyanobacteria-Synechococcus_sp_WH_5701_gi87302673 2.10E-17 >XP_01085484 possible CspA C-factor signaling protein [Synechococcus sp. WH 5701].
 ConsensusfromContig6996Cyanobacteria-Synechococcus_sp_WH_7803_gi148240388 1.40E-26 >XP_001225775 oxidoreductase [Synechococcus sp. WH 7803].
 ConsensusfromContig2084Cyanobacteria-Thermosynechococcus_elongatus_BP_1_g122298150 2.00E-37 >NP_681397 putative oxidoreductase [Thermosynechococcus elongatus BP-1].
 ConsensusfromContig3658Cyanobacteria-Trichodesmium_erythraeum_IMS101_gi113475094 4.60E-28 >XP_721155 peptidase S9, prolyl oligopeptidase active site region [Trichodesmium erythraeum IMS101].
 ConsensusfromContig2009Cyanobacteria-Trichodesmium_erythraeum_IMS101_gi113477275 1.10E-54 >XP_723336 beta-ketoacyl synthase [Trichodesmium erythraeum IMS101].
 ConsensusfromContig6809Cyanobacteria-Trichodesmium_erythraeum_IMS101_gi113477277 9.30E-25 >XP_723338 beta-ketoacyl synthase [Trichodesmium erythraeum IMS101].
 ConsensusfromContig5009Cyanobacteria-Trichodesmium_erythraeum_IMS101_gi113478270 1.40E-12 >XP_724331 cyclic nucleotide-binding protein [Trichodesmium erythraeum IMS101].
 ConsensusfromContig7211Deinococcus-Deinococcus_deserti_VCD115_gi262357403 9.10E-17 >NP_681397 putative oxidoreductase [Thermosynechococcus elongatus BP-1].
 ConsensusfromContig5447Deinococcus-Deinococcus_geothermalis_DSM_11300_gi158421569 1.00E-13 >XP_001527796 SegB-like phage related protein [Deinococcus geothermalis DSM 11300].
 ConsensusfromContig3128Deinococcus-Thermus-Meiothermus_ruber_DSM_1279_gi291294603 3.50E-22 >XP_003506001 ribosylglymidine nucleosidase [Meiothermus ruber DSM 1279].
 ConsensusfromContig4242Deinococcus-Thermus-Meiothermus_ruber_DSM_1279_gi291295592 4.70E-13 >XP_003506990 peptidase S10 serine carboxypeptidase [Meiothermus ruber DSM 1279].
 ConsensusfromContig2002Deinococcus-Thermus-Meiothermus_silvanus_DSM_9946_gi297565194 7.70E-21 >XP_003684166 agmatinase [Meiothermus silvanus DSM 9946].
 ConsensusfromContig6212Deinococcus-Thermus_thermophilus_HB27_gi46255233 7.80E-14 >XP_006145 ribonucleotide-diphosphate reductase subunit alpha [Thermus thermophilus HB27].
 ConsensusfromContig2174Deinococcus-Thermus_Truepera_radiovictrix_DSM_17093_gi297622358 1.10E-13 >XP_003703792 ribonucleoside-diphosphate reductase, alpha chain [Truepera radiovictrix DSM 17093].
 ConsensusfromContig2018Dityctyolom-Dityctyolomus_thermophilum_H_6_12_gi206900611 6.30E-14 >XP_002250229 laminarinatease [Dityctyolomus thermophilum H-6-12].
 ConsensusfromContig2277Dityctyolom-Dityctyolomus_thermophilum_H_6_12_gi206901822 7.40E-15 >XP_002250172 alpha-rhamnosidase [Dityctyolomus thermophilum H-6-12].
 ConsensusfromContig2154Excavata-Astasia_longa_tbaLL00000054_3 1.30E-25
 ConsensusfromContig2658Excavata-Euglena_gracilis_tbELL00000319_1 2.20E-13
 ConsensusfromContig2497Excavata-Euglena_gracilis_tbELL00000560_1 1.80E-49
 ConsensusfromContig2777Excavata-Euglena_gracilis_tbELL00000933_2 1.20E-12
 ConsensusfromContig1952Excavata-Euglena_gracilis_tbELL00001898_2 3.20E-12
 ConsensusfromContig7425Excavata-Euglena_gracilis_tbELL00002054_3 2.60E-27
 ConsensusfromContig3199Excavata-Euglena_gracilis_tbELL00002086_3 7.10E-18
 ConsensusfromContig4852Excavata-Euglena_gracilis_tbELL00002260_2 1.50E-14
 ConsensusfromContig6752Excavata-Euglena_gracilis_tbELL00002338_3 2.70E-11
 ConsensusfromContig6936Excavata-Euglena_gracilis_tbELL00002868_1 2.50E-12
 ConsensusfromContig6933Excavata-Euglena_gracilis_tbELL00003263_3 5.00E-29
 ConsensusfromContig9390Excavata-Euglena_gracilis_tbELL00003397_1 3.20E-14
 ConsensusfromContig5777Excavata-Euglena_gracilis_tbELL00004982_2 3.10E-13
 ConsensusfromContig1918Excavata-Euglena_gracilis_tbELL00006259_3 5.20E-11
 ConsensusfromContig2791Excavata-Euglena_gracilis_tbELL00006630_1 2.20E-30
 ConsensusfromContig5236Excavata-Giardia_lambila_ATCC_50803_gi159112398 5.10E-16 >XP_001706428 Dynein light chain [Giardia lamblia ATCC 50803].
 ConsensusfromContig1890Excavata-Giardia_lambila_ATCC_50803_gi159119436 1.90E-11 >XP_001709936 Dynein heavy chain [Giardia lamblia ATCC 50803].
 ConsensusfromContig1864Excavata-Histiona_arioides_tbaHAL00000935_2 6.90E-13
 ConsensusfromContig1986Excavata-Histiona_arioides_tbaHAL00000935_2 1.00E-25
 ConsensusfromContig5201Excavata-Histiona_arioides_tbaHAL00001599_1 4.90E-30
 ConsensusfromContig5902Excavata-Jakoba_bahamiensis_tbaJBL00000423_2 1.70E-16
 ConsensusfromContig4096Excavata-Jakoba_bahamiensis_tbaJBL00000773_1 1.70E-25
 ConsensusfromContig4096Excavata-Jakoba_bahamiensis_tbaJBL00000773_1 1.70E-25
 ConsensusfromContig3124Excavata-Jakoba_bahamiensis_tbaJBL00001118_1 1.40E-38
 ConsensusfromContig3596Excavata-Jakoba_bahamiensis_tbaJBL00001352_2 1.70E-11
 ConsensusfromContig3246Excavata-Jakoba_bahamiensis_tbaJBL00001557_2 5.60E-14
 ConsensusfromContig1848Excavata-Jakoba_bahamiensis_tbaJBL00002014_2 7.20E-11
 ConsensusfromContig2543Excavata-Jakoba_libera_tbaJLL00000046_3 8.70E-17
 ConsensusfromContig3006Excavata-Jakoba_libera_tbaJLL00000048_4 2.20E-13
 ConsensusfromContig3246Excavata-Jakoba_libera_tbaJLL00000110_3 4.00E-17
 ConsensusfromContig3464Excavata-Jakoba_libera_tbaJLL00000527_2 3.20E-14
 ConsensusfromContig5283Excavata-Jakoba_libera_tbaJLL00000733_2 1.80E-20
 ConsensusfromContig2102Excavata-Jakoba_libera_tbaJLL00000772_2 1.00E-125
 ConsensusfromContig3103Excavata-Jakoba_libera_tbaJLL00001235_1 6.70E-11
 ConsensusfromContig3830Excavata-Leishmania_braziliensis_MHOM/BR/75/M2904_gi154334765 6.40E-12 >XP_001563629 histone acetyltransferase-like protein [Leishmania braziliensis MHOM/BR/75/M2904].
 ConsensusfromContig1383Excavata-Leishmania_braziliensis_MHOM/BR/75/M2904_gi154342546 4.80E-14 >XP_001567221 succinyl-diaminopimelate desuccinylase-like protein [Leishmania braziliensis MHOM/BR/75/M2904].
 ConsensusfromContig2019Excavata-Leishmania_braziliensis_MHOM/BR/75/M2904_gi154343315 1.50E-11 >XP_001567603 membrane associated protein-like protein [Leishmania braziliensis MHOM/BR/75/M2904].
 ConsensusfromContig3210Excavata-Leishmania_braziliensis_MHOM/BR/75/M2904_gi154344449 7.20E-16 >XP_001568166 proteophosphoglycan ppg4 [Leishmania braziliensis MHOM/BR/75/M2904].
 ConsensusfromContig5106Excavata-Leishmania_braziliensis_MHOM/BR/75/M2904_gi154344449 4.90E-17 >XP_001568166 proteophosphoglycan ppg4 [Leishmania braziliensis MHOM/BR/75/M2904].
 ConsensusfromContig6929Excavata-Leishmania_braziliensis_MHOM/BR/75/M2904_gi154344451 1.00E-11 >XP_001568167 proteophosphoglycan ppg4 [Leishmania braziliensis MHOM/BR/75/M2904].
 ConsensusfromContig5176Excavata-Leishmania_infantum_JPCM5_gi14607105 5.10E-21 >XP_001462839 pteridine transporter (truncated) [Leishmania infantum JPCM5].
 ConsensusfromContig1949Excavata-Leishmania_infantum_JPCM5_gi146081619 1.70E-11 >XP_001464297 kinesin K39 [Leishmania infantum JPCM5].
 ConsensusfromContig6944Excavata-Leishmania_infantum_JPCM5_gi146089119 3.10E-15 >XP_001466240 hypothetical protein [Leishmania infantum JPCM5].
 ConsensusfromContig2084Excavata-Leishmania_major_strain_Friedlin_gi157865947 1.30E-16 >XP_001681680 surface antigen protein [Leishmania major strain Friedlin].
 ConsensusfromContig5142Excavata-Leishmania_major_strain_Friedlin_gi157867349 2.00E-12 >XP_001682229 kinesin [Leishmania major strain Friedlin].
 ConsensusfromContig3058Excavata-Leishmania_major_strain_Friedlin_gi157867524 1.40E-12 >XP_001682316 hypothetical protein [Leishmania major strain Friedlin].
 ConsensusfromContig1944Excavata-Leishmania_major_strain_Friedlin_gi72547023 3.10E-19 >XP_843162 proteophosphoglycan ppg4 [Leishmania major strain Friedlin].
 ConsensusfromContig1959Excavata-Leishmania_major_strain_Friedlin_gi72547023 2.20E-16 >XP_843162 proteophosphoglycan ppg4 [Leishmania major strain Friedlin].
 ConsensusfromContig3126Excavata-Leishmania_major_strain_Friedlin_gi72547023 5.80E-12 >XP_843162 proteophosphoglycan ppg4 [Leishmania major strain Friedlin].
 ConsensusfromContig3128Excavata-Leishmania_major_strain_Friedlin_gi72547023 8.90E-13 >XP_843162 proteophosphoglycan ppg4 [Leishmania major strain Friedlin].
 ConsensusfromContig5101Excavata-Leishmania_major_strain_Friedlin_gi72547023 6.80E-17 >XP_843162 proteophosphoglycan ppg4 [Leishmania major strain Friedlin].
 ConsensusfromContig5127Excavata-Leishmania_major_strain_Friedlin_gi72547023 1.40E-12 >XP_843162 proteophosphoglycan ppg4 [Leishmania major strain Friedlin].
 ConsensusfromContig1966Excavata-Leishmania_major_strain_Friedlin_gi72547036 8.50E-14 >XP_843163 proteophosphoglycan 5 [Leishmania major strain Friedlin].
 ConsensusfromContig6924Excavata-Leishmania_major_strain_Friedlin_gi72547036 2.30E-11 >XP_843163 proteophosphoglycan 5 [Leishmania major strain Friedlin].
 ConsensusfromContig3016Excavata-Malawimonas_californiana_tbaMCL00000127_3 2.10E-19
 ConsensusfromContig1952Excavata-Malawimonas_californiana_tbaMCL00000245_2 1.90E-48
 ConsensusfromContig1960Excavata-Malawimonas_californiana_tbaMCL00001730_1 6.60E-12
 ConsensusfromContig2367Excavata-Malawimonas_californiana_tbaMCL00002202_3 4.10E-15
 ConsensusfromContig5977Excavata-Malawimonas_californiana_tbaMCL00002297_2 7.40E-14
 ConsensusfromContig2894Excavata-Malawimonas_jakobiformis_tbaMCL00000816_2 1.70E-22
 ConsensusfromContig3503Excavata-Malawimonas_jakobiformis_tbaMCL00001256_3 9.20E-11
 ConsensusfromContig3629Excavata-Malawimonas_jakobiformis_tbaMCL00001256_3 1.90E-13
 ConsensusfromContig2367Excavata-Malawimonas_jakobiformis_tbaMCL00001276_2 6.00E-18
 ConsensusfromContig2103Excavata-Malawimonas_jakobiformis_tbaMCL00002721_1 1.50E-30
 ConsensusfromContig5103Excavata-Malawimonas_jakobiformis_tbaMCL00003571_3 6.90E-24
 ConsensusfromContig5121Excavata-Naegleria_gruberi_strain_NEG_M_gi290973659 3.40E-39 >XP_002669798 phosphatidylserine synthase [Naegleria gruberi].
 ConsensusfromContig1937Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 9.50E-29 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig1947Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 2.10E-49 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig1997Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 5.70E-24 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig2029Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 1.90E-71 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig3140Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 2.20E-32 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig5170Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 7.30E-71 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig5200Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 4.30E-19 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig5201Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 4.80E-12 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig5443Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 1.20E-19 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig5453Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 1.50E-17 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig5767Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 5.60E-11 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig6934Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 2.70E-79 >XP_002669798 predicted protein [Naegleria gruberi].
 ConsensusfromContig6960Excavata-Naegleria_gruberi_strain_NEG_M_gi290974128 7.90E-80 >XP_002669798 predicted protein [Naegleria gruberi].

ConsensusfromContig5128Excavata-Naegleria_gruberi_strain_NEG_M_gi290978417
 ConsensusfromContig2015Excavata-Naegleria_gruberi_strain_NEG_M_gi290978957
 ConsensusfromContig1942Excavata-Naegleria_gruberi_strain_NEG_M_gi290979914
 ConsensusfromContig2928Excavata-Naegleria_gruberi_strain_NEG_M_gi290980695
 ConsensusfromContig4840Excavata-Naegleria_gruberi_strain_NEG_M_gi290981736
 ConsensusfromContig3101Excavata-Naegleria_gruberi_strain_NEG_M_gi290981736
 ConsensusfromContig1535Excavata-Naegleria_gruberi_strain_NEG_M_gi290984568
 ConsensusfromContig2005Excavata-Naegleria_gruberi_strain_NEG_M_gi290984568
 ConsensusfromContig2438Excavata-Naegleria_gruberi_strain_NEG_M_gi290984809
 ConsensusfromContig3101Excavata-Naegleria_gruberi_strain_NEG_M_gi290986675
 ConsensusfromContig2043Excavata-Naegleria_gruberi_strain_NEG_M_gi290987293
 ConsensusfromContig5318Excavata-Naegleria_gruberi_strain_NEG_M_gi290987567
 ConsensusfromContig5132Excavata-Naegleria_gruberi_strain_NEG_M_gi290990672
 ConsensusfromContig5207Excavata-Naegleria_gruberi_strain_NEG_M_gi290992999
 ConsensusfromContig2169Excavata-Naegleria_gruberi_strain_NEG_M_gi291000230
 ConsensusfromContig3126Excavata-Naegleria_gruberi_strain_NEG_M_gi291000230
 ConsensusfromContig6386Excavata-Naegleria_gruberi_strain_NEG_M_gi291000248
 ConsensusfromContig6437Excavata-Naegleria_gruberi_strain_NEG_M_gi291001209
 ConsensusfromContig2092Excavata-Naegleria_gruberi_strain_NEG_M_gi291001341
 ConsensusfromContig4507Excavata-Reclinomonas_ameicana_tBRAL0000634_1
 ConsensusfromContig1974Excavata-Reclinomonas_ameicana_tBRAL00001303_2
 ConsensusfromContig2464Excavata-Reclinomonas_ameicana_tBRAL00003137_1
 ConsensusfromContig2464Excavata-Reclinomonas_ameicana_tBRAL00003137_1
 ConsensusfromContig2213Excavata-Reclinomonas_ameicana_tBRAL00006189_2
 ConsensusfromContig1998Excavata-Reclinomonas_ameicana_tBRAL00006305_2
 ConsensusfromContig8913Excavata-Reclinomonas_ameicana_tBRAL00006330_1
 ConsensusfromContig1993Excavata-Seculamonas_ecuadoriensis_tBSEL00000214_2
 ConsensusfromContig3304Excavata-Seculamonas_ecuadoriensis_tBSEL00000424_2
 ConsensusfromContig2038Excavata-Seculamonas_ecuadoriensis_tBSEL00000602_1
 ConsensusfromContig2266Excavata-Seculamonas_ecuadoriensis_tBSEL00000741_1
 ConsensusfromContig1507Excavata-Seculamonas_ecuadoriensis_tBSEL00001931_2
 ConsensusfromContig2311Excavata-Stachyamoeba_lipophora_tBSLL00001107_2
 ConsensusfromContig3201Excavata-Trichomonas_vaginalis_G3_gi123397103
 ConsensusfromContig2301Excavata-Trichomonas_vaginalis_G3_gi123398905
 ConsensusfromContig6801Excavata-Trichomonas_vaginalis_G3_gi123408691
 ConsensusfromContig5422Excavata-Trichomonas_vaginalis_G3_gi123411526
 ConsensusfromContig6965Excavata-Trichomonas_vaginalis_G3_gi123428302
 ConsensusfromContig2327Excavata-Trichomonas_vaginalis_G3_gi123453498
 ConsensusfromContig5224Excavata-Trichomonas_vaginalis_G3_gi123473584
 ConsensusfromContig4291Excavata-Trichomonas_vaginalis_G3_gi154411809
 ConsensusfromContig1984Excavata-Trichomonas_vaginalis_G3_gi154416369
 ConsensusfromContig5210Excavata-Trichomonas_vaginalis_G3_gi154418773
 ConsensusfromContig2327Excavata-Trimastix_pyriformis_tBTPLO0001196_1
 ConsensusfromContig1881Excavata-Trimastix_pyriformis_tBTPLO0001510_1
 ConsensusfromContig6974Excavata-Trimastix_pyriformis_tBTPLO0001510_1
 ConsensusfromContig2542Excavata-Trimastix_pyriformis_tBTPLO0001760_2
 ConsensusfromContig2331Excavata-Trimastix_pyriformis_tBTPLO0002376_3
 ConsensusfromContig2849Excavata-Trypanosoma_brucei_TREU927_gi27238916
 ConsensusfromContig2629Excavata-Trypanosoma_brucei_TREU927_gi27238916
 ConsensusfromContig3313Excavata-Trypanosoma_brucei_TREU927_gi272390579
 ConsensusfromContig3530Excavata-Trypanosoma_cruzi_strain_C1_brener_gi71406035
 ConsensusfromContig6089FibrobacteresAcidobacteria_Acidobacterium_capsulatum_ATCC_S1196_gi225872508
 ConsensusfromContig2294FibrobacteresAcidobacteria_Acidobacterium_capsulatum_ATCC_S1196_gi225873198
 ConsensusfromContig2205FibrobacteresAcidobacteria_Acidobacterium_sp_MPSACTX8_gi299136609
 ConsensusfromContig5117FibrobacteresAcidobacteria_Acidobacterium_sp_MPSACTX8_gi299137242
 ConsensusfromContig2263FibrobacteresAcidobacteria_Acidobacterium_sp_MPSACTX8_gi299139613
 ConsensusfromContig2263FibrobacteresAcidobacteria_Acidobacterium_sp_MPSACTX8_gi299139960
 ConsensusfromContig3462FibrobacteresAcidobacteria_Candidatus_Koribacter_versatilis_Ellin345_gi94967927
 ConsensusfromContig3123FibrobacteresAcidobacteria_Candidatus_Koribacter_versatilis_Ellin345_gi94970276
 ConsensusfromContig5119FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116619336
 ConsensusfromContig7407FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116619343
 ConsensusfromContig1985FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116619958
 ConsensusfromContig5135FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116619958
 ConsensusfromContig6935FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116619958
 ConsensusfromContig1971FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116620173
 ConsensusfromContig2928FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116620173
 ConsensusfromContig8155FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116622321
 ConsensusfromContig2086FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116622764
 ConsensusfromContig5347FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116623080
 ConsensusfromContig2066FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116625201
 ConsensusfromContig2413FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116625203
 ConsensusfromContig2807FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116625211
 ConsensusfromContig6088FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116625211
 ConsensusfromContig2256FibrobacteresAcidobacteria_Candidatus_Solibacter_usitatus_Ellin6076_gi116626332
 ConsensusfromContig2514Firmicutes_Ablotrophia_defectiva_ATCC_49176_gi229826180
 ConsensusfromContig2915Firmicutes_Ammonifex_degensii_KC4_gi260891938
 ConsensusfromContig2082Firmicutes_Bacillus_amyloliquefaciens_FZB42_gi154687458
 ConsensusfromContig5300Firmicutes_Bacillus_cellulosilyticus_DSM_2522_gi283848060
 ConsensusfromContig2204Firmicutes_Bacillus_cereus_BORD_S1196_gi229133742
 ConsensusfromContig7100Firmicutes_Bacillus_cereus_W_1_gi196036338
 ConsensusfromContig5462Firmicutes_Bacillus_pumilus_ATCC_7061_gi194015228
 ConsensusfromContig702Firmicutes_Bacillus_pumilus_ATCC_7061_gi194015228
 ConsensusfromContig3Bacillus_sp_NRRL_B_14911_gi89098201
 ConsensusfromContig2917Firmicutes_Bacillus_sp_NRRL_B_14911_gi89098430
 ConsensusfromContig6070Firmicutes_Bacillus_welshstephanensis_KBAB4_gi163937911
 ConsensusfromContig2596Firmicutes_Caldicellulosiruptor_saccharolyticus_DSM_8903_gi146297401
 ConsensusfromContig2080Firmicutes_Caldicellulosiruptor_saccharolyticus_DSM_8903_gi146297523
 ConsensusfromContig696Firmicutes_Clostridiales_bacterium_1_7_47FAA_gi239628103
 ConsensusfromContig1958Firmicutes_Clostridium_botulinum_B_str_Eklund_17B_gi187934575
 ConsensusfromContig6925Firmicutes_Clostridium_botulinum_B_str_Eklund_17B_gi187934575
 ConsensusfromContig2165Firmicutes_Clostridium_butyryticum_5521_gi182418782
 ConsensusfromContig1961Firmicutes_Clostridium_cellulosilyticum_H10_gi220929020
 ConsensusfromContig1935Firmicutes_Clostridium_difficile_Q521_gi25103003
 ConsensusfromContig2303Firmicutes_Clostridium_difficile_Q521_gi25103003
 ConsensusfromContig5154Firmicutes_Clostridium_leptum_DSM_753_gi160934207
 ConsensusfromContig1555Firmicutes_Clostridium_methylopentosum_DSM_5476_gi225017953
 ConsensusfromContig6103Firmicutes_Clostridium_methylopentosum_DSM_5476_gi225018998
 ConsensusfromContig2010Firmicutes_Clostridium_perfringens_C_str_JG51495_gi169342803
 ConsensusfromContig2377Firmicutes_Desulfotomaculum_acetoxidans_DSM_771_gi258515056
 ConsensusfromContig2898Firmicutes_Desulfotomaculum_acetoxidans_DSM_771_gi258516949
 1.10E-34 >XP_002671932 predicted protein [Naegleria gruberi].
 9.50E-33 >XP_002672201 predicted protein [Naegleria gruberi].
 2.80E-17 >XP_002672678 predicted protein [Naegleria gruberi].
 2.60E-11 >XP_002673067 predicted protein [Naegleria gruberi].
 2.70E-15 >XP_002673587 predicted protein [Naegleria gruberi].
 2.70E-15 >XP_002673587 predicted protein [Naegleria gruberi].
 2.00E-27 >XP_002674999 poly ADP-ribose polymerase family, member 14-like protein [Naegleria gruberi].
 2.30E-27 >XP_002674999 poly ADP-ribose polymerase family, member 14-like protein [Naegleria gruberi].
 1.20E-14 >XP_002675119 predicted protein [Naegleria gruberi].
 1.60E-13 >XP_002676049 histone demethylase [Naegleria gruberi].
 1.20E-15 >XP_002676357 predicted protein [Naegleria gruberi].
 1.80E-23 >XP_002676494 hypothetical protein NAEGRDRAFT_68477 [Naegleria gruberi].
 2.30E-42 >XP_002677960 ATP-dependent DNA ligase IV [Naegleria gruberi].
 6.70E-17 >XP_002679121 set domain-containing protein [Naegleria gruberi].
 1.10E-18 >XP_002682682 predicted protein [Naegleria gruberi].
 4.00E-40 >XP_002682682 predicted protein [Naegleria gruberi].
 7.00E-16 >XP_002682691 predicted protein [Naegleria gruberi].
 2.00E-14 >XP_002683171 predicted protein [Naegleria gruberi].
 1.80E-38 >XP_002683237 rab family small GTPase [Naegleria gruberi].
 1.70E-18
 3.10E-19
 1.20E-29
 1.90E-24
 2.50E-30
 2.50E-11
 1.70E-17
 4.90E-17
 7.70E-12
 3.20E-53
 2.90E-14
 5.00E-14
 2.60E-63 >XP_001301026 hypothetical protein [Trichomonas vaginalis G3].
 1.80E-53 >XP_001301368 ankryrin repeat protein [Trichomonas vaginalis G3].
 1.70E-11 >XP_001303246 surface antigen BspA-like [Trichomonas vaginalis G3].
 1.20E-25 >XP_001303902 hypothetical protein [Trichomonas vaginalis G3].
 6.20E-28 >XP_001309937 C2 domain containing protein [Trichomonas vaginalis G3].
 3.70E-64 >XP_001314730 ankryrin repeat protein [Trichomonas vaginalis G3].
 1.10E-20 >XP_001319979 hypothetical protein [Trichomonas vaginalis G3].
 7.30E-16 >XP_001578939 surface antigen BspA-like [Trichomonas vaginalis G3].
 1.10E-72 >XP_001581207 CAMK family protein kinase [Trichomonas vaginalis G3].
 7.00E-11 >XP_001582404 viral A-type inclusion protein [Trichomonas vaginalis G3].
 4.90E-47
 4.10E-12
 1.70E-17
 2.10E-38
 2.10E-11 >XP_844753 casein kinase I, epsilon isoform [Trypanosoma brucei TREU927].
 2.10E-32 >XP_845163 peptidase M20/M25/M40 [Trypanosoma brucei TREU927].
 1.90E-39 >XP_845584 hypothetical protein [Trypanosoma brucei TREU927].
 2.30E-40 >XP_805588 serine/threonine-protein phosphatase 2A, catalytic subunit [Trypanosoma cruzi strain CL Brener].
 1.20E-13 >XP_002753963 hypothetical protein ACT_0852 [Acidobacterium capsulatum ATCC S1196].
 1.60E-14 >YP_002754657 glycosyl hydrolase, family 39 [Acidobacterium capsulatum ATCC S1196].
 2.90E-18 >ZP_07029792 conserved hypothetical protein [Acidobacterium sp. MPSACTX8].
 3.60E-11 >ZP_07030424 Fibronectin type III domain protein [Acidobacterium sp. MPSACTX8].
 4.90E-11 >ZP_07032787 putative esterase [Acidobacterium sp. MPSACTX8].
 4.90E-11 >ZP_07031311 conserved hypothetical protein [Acidobacterium sp. MPSACTX8].
 4.10E-25 >YP_589975 Alpha-glucosidase [Candidatus Koribacter versatilis Ellin345].
 8.00E-19 >YP_592324 glycoside hydrolase, clan GH-D [Candidatus Koribacter versatilis Ellin345].
 2.00E-16 >YP_821492 exo-alpha-sialidase [Candidatus Solibacter usitatus Ellin6076].
 1.30E-22 >YP_821499 hypothetical protein ACT_0200 [Candidatus Solibacter usitatus Ellin6076].
 1.70E-84 >YP_822114 peptidase S15 [Candidatus Solibacter usitatus Ellin6076].
 1.30E-79 >YP_822114 peptidase S15 [Candidatus Solibacter usitatus Ellin6076].
 2.30E-35 >YP_822114 peptidase S15 [Candidatus Solibacter usitatus Ellin6076].
 8.80E-64 >YP_822329 HpcH/HpaI aldolase [Candidatus Solibacter usitatus Ellin6076].
 1.80E-30 >YP_822329 HpcH/HpaI aldolase [Candidatus Solibacter usitatus Ellin6076].
 2.50E-26 >YP_824477 putative esterase [Candidatus Solibacter usitatus Ellin6076].
 5.40E-29 >YP_824920 phytanoyl-CoA dioxygenase [Candidatus Solibacter usitatus Ellin6076].
 3.30E-12 >YP_825236 hypothetical protein Actc_3984 [Candidatus Solibacter usitatus Ellin6076].
 1.70E-27 >YP_827359 selenocysteine synthase-like protein [Candidatus Solibacter usitatus Ellin6076].
 4.40E-12 >YP_827359 selenocysteine synthase-like protein [Candidatus Solibacter usitatus Ellin6076].
 9.80E-11 >YP_827367 hypothetical protein Actc_6156 [Candidatus Solibacter usitatus Ellin6076].
 1.90E-48 >YP_827367 hypothetical protein Actc_6156 [Candidatus Solibacter usitatus Ellin6076].
 4.00E-24 >YP_828488 hypothetical protein Actc_7292 [Candidatus Solibacter usitatus Ellin6076].
 5.80E-16 >ZP_04452249 hypothetical protein GCWU001082_01552 [Ablotrophia defectiva ATCC 49176].
 3.70E-17 >YP_003238035 SNO glutamine amidotransferase [Ammonifex degensii KC4].
 1.90E-42 >YP_001422619 YvgN [Bacillus amyloliquefaciens FZB42].
 4.50E-16 >ZP_03635477 D-isomer specific 2-hydroxyacid dehydrogenase NAD-binding [Bacillus cellulosilyticus DSM 2522].
 8.40E-15 >ZP_04671134 D-mannonate dehydratase [Clostridium bacterium 1_7_47_FAA].
 1.80E-11 >ZP_00103736 methyltransferase, FkM family protein [Bacillus cereus W].
 2.90E-37 >ZP_03053844 DNA methylase [Bacillus pumilus ATCC 7061].
 9.60E-27 >ZP_03053844 DNA methylase [Bacillus pumilus ATCC 7061].
 3.00E-13 >YP_01171185 acetyltransferase, GNAI family protein [Bacillus sp. NRRL B-14911].
 9.90E-17 >ZP_01171314 stage V sporulation protein K [Bacillus sp. NRRL B-14911].
 1.80E-16 >YP_001642797 phage minor structural protein [Bacillus welshstephanensis KBAB4].
 2.30E-22 >YP_001181172 glycoside hydrolase family protein [Caldicellulosiruptor saccharolyticus DSM 8903].
 6.80E-24 >YP_001181294 hypothetical protein Cscac_2528 [Caldicellulosiruptor saccharolyticus DSM 8903].
 7.50E-48 >ZP_04671134 D-mannonate dehydratase [Clostridium bacterium 1_7_47_FAA].
 7.50E-14 >YP_001885133 DNA methyltransferase [Clostridium botulinum B str. Eklund 17B].
 4.20E-19 >YP_001885133 DNA methyltransferase [Clostridium botulinum B str. Eklund 17B].
 1.10E-27 >ZP_02950050 stage V sporulation protein K [Clostridium butyryticum 5521].
 1.50E-37 >YP_02050529 glyoxylate hydrolase, clan GH-D [Clostridium cellulosilyticum H10].
 3.70E-31 >ZP_05331980 DNA methylase N-4/N-6 domain-containing protein [Clostridium difficile QCC-63q42].
 4.70E-17 >ZP_05331980 DNA methylase N-4/N-6 domain-containing protein [Clostridium difficile QCC-63q42].
 7.00E-36 >ZP_02081594 hypothetical protein CLOLEP_03078 [Clostridium leptum DSM 753].
 8.60E-13 >ZP_03707145 hypothetical protein CLOSTMETH_01888 [Clostridium methylopentosum DSM 5476].
 1.80E-17 >ZP_03707145 hypothetical protein CLOSTMETH_01888 [Clostridium methylopentosum DSM 5476].
 2.10E-18 >ZP_02863837 putative sporulation protein [Clostridium perfringens C str. JG51495].
 1.60E-30 >YP_003191278 Nitrilase/cyanide hydratase and apolipoprotein N- acyltransferase [Desulfotomaculum acetoxidans DSM 771].
 8.20E-15 >YP_003193171 pyruvate phosphate dikinase PEP/pyruvate-binding [Desulfotomaculum acetoxidans DSM 771].

ConsensusfromContig3838Firmicutes-Eubacterium_siraenum_DSM_15702_gi167751650
 ConsensusfromContig4225Firmicutes-Eubacterium_siraenum_DSM_15702_gi167751650
 ConsensusfromContig1889Firmicutes-Exiguobacterium_sibiricum_255_15_gi172057190
 ConsensusfromContig2348Firmicutes-Exiguobacterium_sibiricum_255_15_gi172057190
 ConsensusfromContig4848Firmicutes-Geobacillus_sp_Y41MC1_gi255332763
 ConsensusfromContig608Firmicutes-Geobacillus_thermophilus_NG80_2_gi138895762
 ConsensusfromContig2984Firmicutes-Lactobacillus_rhannosus_LMS2_1_gi229553373
 ConsensusfromContig4226Firmicutes-Leuconostoc_kimchii_IMSNU_11154_gi296111465
 ConsensusfromContig2088Firmicutes-Leuconostoc_mesenteroides_subsp_cremoris_ATCC_19254_gi227431774
 ConsensusfromContig1948Firmicutes-Lysinibacillus_fusiformis_ZC1_gi299536085
 ConsensusfromContig1955Firmicutes-Lysinibacillus_fusiformis_ZC1_gi299536085
 ConsensusfromContig1976Firmicutes-Lysinibacillus_fusiformis_ZC1_gi299536085
 ConsensusfromContig1989Firmicutes-Lysinibacillus_fusiformis_ZC1_gi299536085
 ConsensusfromContig2980Firmicutes-Lysinibacillus_fusiformis_ZC1_gi299536085
 ConsensusfromContig3231Firmicutes-Lysinibacillus_fusiformis_ZC1_gi299536085
 ConsensusfromContig5269Firmicutes-Lysinibacillus_fusiformis_ZC1_gi299536085
 ConsensusfromContig5605Firmicutes-Lysinibacillus_fusiformis_ZC1_gi299536085
 ConsensusfromContig5977Firmicutes-Lysinibacillus_fusiformis_ZC1_gi299536085
 ConsensusfromContig5605Firmicutes-Lysinibacillus_fusiformis_ZC1_gi299536085
 ConsensusfromContig4283Firmicutes-Moorella_thermoacetica_ATCC_39073_gi835920730
 ConsensusfromContig2269Firmicutes-Paenibacillus_sp_JDR_2_gi251794383
 ConsensusfromContig2088Firmicutes-Paenibacillus_sp_JDR_2_gi251794554
 ConsensusfromContig2089Firmicutes-Paenibacillus_sp_JDR_2_gi251794554
 ConsensusfromContig2086Firmicutes-Paenibacillus_sp_JDR_2_gi251794782
 ConsensusfromContig2127Firmicutes-Paenibacillus_sp_JDR_2_gi251794963
 ConsensusfromContig2227Firmicutes-Paenibacillus_sp_JDR_2_gi251794963
 ConsensusfromContig2274Firmicutes-Paenibacillus_sp_JDR_2_gi251795753
 ConsensusfromContig1952Firmicutes-Paenibacillus_sp_JDR_2_gi251797225
 ConsensusfromContig7344Firmicutes-Paenibacillus_sp_JDR_2_gi251797225
 ConsensusfromContig6955Firmicutes-Paenibacillus_sp_JDR_2_gi251799202
 ConsensusfromContig5478Firmicutes-Roseburia_intestinalis_L1_82_gi240147466
 ConsensusfromContig5645Firmicutes-Roseburia_intestinalis_L1_82_gi240147466
 ConsensusfromContig5790Firmicutes-Roseburia_intestinalis_L1_82_gi240147466
 ConsensusfromContig4938Firmicutes-Roseburia_intestinalis_L1_82_gi240147466
 ConsensusfromContig4352Firmicutes-Shuttleworthia_satelles_DSM_14600_gi229829458
 ConsensusfromContig4369Firmicutes-Shuttleworthia_satelles_DSM_14600_gi229829458
 ConsensusfromContig5100Firmicutes-Staphylococcus_aureus_gi10956164
 ConsensusfromContig1315Firmicutes-Staphylococcus_aureus_gi10956172
 ConsensusfromContig2013Firmicutes-Staphylococcus_aureus_subsp_aureus_MW2_gi21283455
 ConsensusfromContig3236Firmicutes-Staphylococcus_capitis_SK14_gi223043397
 ConsensusfromContig2019Firmicutes-Streptococcus_pneumoniae_ATCC_700669_gi221232510
 ConsensusfromContig5296Firmicutes-Streptococcus_pneumoniae_ATCC_700669_gi221232510
 ConsensusfromContig6926Firmicutes-Streptococcus_pneumoniae_ATCC_700669_gi221232510
 ConsensusfromContig6922Firmicutes-Streptococcus_pneumoniae_Hungary19A_6_gi169833528
 ConsensusfromContig2021Firmicutes-Streptococcus_pneumoniae_Hungary19A_6_gi169833528
 ConsensusfromContig1941Firmicutes-Symbiobacterium_thermophilum_IAM_14863_gi51892303
 ConsensusfromContig6171Firmicutes-Symbiobacterium_thermophilum_IAM_14863_gi51892303
 ConsensusfromContig2053Firmicutes-Thermoanaerobacter_pseudethanolicus_ATCC_33223_gi167038355
 ConsensusfromContig5137Fungi-Ajellomyces_capsulatus_Nam1_gi154269571
 ConsensusfromContig3146Fungi-Ajellomyces_capsulatus_Nam1_gi154269709
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 ConsensusfromContig1955Fungi-Allomyces_macrogynus_tBAML00000113_1
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 ConsensusfromContig2506Fungi-Alternaria_brassicicola_giJAB03271
 ConsensusfromContig7166Fungi-Alternaria_brassicicola_giJAB03458
 ConsensusfromContig5838Fungi-Arthroderma_otae_CBS_113480_gi296826646
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 ConsensusfromContig3031Fungi-Batrachochytrium_dendrobatidis_giJ35515
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 ConsensusfromContig7128Fungi-Batrachochytrium_dendrobatidis_tBBDL00000263_5
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 ConsensusfromContig3149Fungi-Candida_dubliniensis_CD36_gi241956792
 ConsensusfromContig6929Fungi-Candida_glabrata_CBS_138_gi50294163
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 ConsensusfromContig3147Fungi-Coccidioides_immitis_RS_gi119189289
 ConsensusfromContig3403Fungi-Coccidioides_immitis_RS_gi119189373
 ConsensusfromContig1955Fungi-Coccidioides_immitis_RS_gi119193496
 ConsensusfromContig5217Fungi-Coccidioides_immitis_RS_gi119193496
 ConsensusfromContig2869Fungi-Coccidioides_immitis_RS_gi119196989
 1.30E-15 >XP_02423777 hypothetical protein EUBSIR_02655 [Eubacterium_siraenum_DSM_15702].
 1.30E-13 >XP_02423777 hypothetical protein EUBSIR_02655 [Eubacterium_siraenum_DSM_15702].
 1.20E-13 >XP_001813650 ABC transporter related [Exiguobacterium_sibiricum_255-15].
 1.20E-16 >XP_001813650 ABC transporter related [Exiguobacterium_sibiricum_255-15].
 7.70E-20 >XP_05373760 ATP-dependent DNA helicase PcrA [Geobacillus_sp_Y4_1MC1].
 3.10E-14 >XP_05373760 ATP-dependent DNA helicase PcrA [Geobacillus_sp_Y4_1MC1].
 6.00E-11 >XP_04442098 beta-galactosidase [Lactobacillus_rhannosus_LMS2-1].
 6.00E-12 >XP_003621847 Hemolysin-type calcium-binding region:RTX N-terminal domain protein [Leuconostoc_kimchii_IMSNU_11154].
 5.60E-18 >XP_03913801 adenine-specific methyltransferase [Leuconostoc_mesenteroides_subsp_cremoris_ATCC_19254].
 1.50E-21 >XP_07049402 cellulosome anchoring protein cohesin region [Lysinibacillus_fusiformis_ZC1].
 6.20E-27 >XP_07049402 cellulosome anchoring protein cohesin region [Lysinibacillus_fusiformis_ZC1].
 3.50E-22 >XP_07049402 cellulosome anchoring protein cohesin region [Lysinibacillus_fusiformis_ZC1].
 2.10E-19 >XP_07049402 cellulosome anchoring protein cohesin region [Lysinibacillus_fusiformis_ZC1].
 2.10E-21 >XP_07049402 cellulosome anchoring protein cohesin region [Lysinibacillus_fusiformis_ZC1].
 3.70E-28 >XP_07049402 cellulosome anchoring protein cohesin region [Lysinibacillus_fusiformis_ZC1].
 4.90E-25 >XP_07049402 cellulosome anchoring protein cohesin region [Lysinibacillus_fusiformis_ZC1].
 2.20E-14 >XP_07049402 cellulosome anchoring protein cohesin region [Lysinibacillus_fusiformis_ZC1].
 6.90E-13 >XP_07049402 cellulosome anchoring protein cohesin region [Lysinibacillus_fusiformis_ZC1].
 2.20E-14 >XP_07049402 cellulosome anchoring protein cohesin region [Lysinibacillus_fusiformis_ZC1].
 5.10E-11 >XP_430739 hypothetical protein MotH_1896 [Moorella_thermoacetica_ATCC_39073].
 1.60E-25 >XP_003009114 6-phosphogluconolactonase [Paenibacillus_sp_JDR-2].
 4.20E-12 >XP_003009285 hypothetical protein PjdR2_0518 [Paenibacillus_sp_JDR-2].
 1.60E-22 >XP_003009285 hypothetical protein PjdR2_0518 [Paenibacillus_sp_JDR-2].
 1.80E-40 >XP_003009115 Alpha-galactosidase [Paenibacillus_sp_JDR-2].
 1.30E-13 >XP_003009694 Parallel beta-helix repeat protein [Paenibacillus_sp_JDR-2].
 6.90E-16 >XP_003009694 Parallel beta-helix repeat protein [Paenibacillus_sp_JDR-2].
 1.30E-21 >XP_003010484 oxidoreductase domain protein [Paenibacillus_sp_JDR-2].
 9.50E-16 >XP_003011956 Phytanoyl-CoA dioxygenase [Paenibacillus_sp_JDR-2].
 7.20E-16 >XP_003011956 Phytanoyl-CoA dioxygenase [Paenibacillus_sp_JDR-2].
 1.20E-11 >XP_003013933 Beta-galactosidase [Paenibacillus_sp_JDR-2].
 4.70E-16 >XP_04746067 conserved hypothetical protein [Roseburia_intestinalis_L1-82].
 9.00E-13 >XP_04746067 conserved hypothetical protein [Roseburia_intestinalis_L1-82].
 4.80E-13 >XP_04746067 conserved hypothetical protein [Roseburia_intestinalis_L1-82].
 1.40E-16 >XP_04746067 conserved hypothetical protein [Roseburia_intestinalis_L1-82].
 1.80E-11 >XP_04455527 hypothetical protein GCWU000342_01548 [Shuttleworthia_satelles_DSM_14600].
 2.10E-12 >XP_04455527 hypothetical protein GCWU000342_01548 [Shuttleworthia_satelles_DSM_14600].
 4.10E-27 >NP_052693 hypothetical protein pCZ21_p2 [Staphylococcus_aureus].
 5.80E-33 >NP_048341 replication protein [Staphylococcus_aureus].
 8.40E-23 >NP_646543 hypothetical protein MW1726 [Staphylococcus_aureus_subsp_aureus_MW2].
 3.00E-24 >XP_03613443 DNA gyrase, A subunit [Staphylococcus_capitis_SK14].
 4.90E-12 >XP_002511663 cell wall surface anchored protein [Streptococcus_pneumoniae_ATCC_700669].
 1.70E-15 >XP_002511663 cell wall surface anchored protein [Streptococcus_pneumoniae_ATCC_700669].
 8.20E-18 >XP_002511663 cell wall surface anchored protein [Streptococcus_pneumoniae_ATCC_700669].
 6.30E-33 >XP_001695146 cell wall surface anchor family protein [Streptococcus_pneumoniae_Hungary19A-6].
 1.10E-11 >XP_001694194 hypothetical protein SPH_0827 [Streptococcus_pneumoniae_Hungary19A-6].
 3.50E-67 >XP_074994 S-adenosylmethionine:tRNA-ribosyltransferase-isomerase [Symbiobacterium_thermophilum_IAM_14863].
 7.80E-28 >XP_074994 S-adenosylmethionine:tRNA-ribosyltransferase-isomerase [Symbiobacterium_thermophilum_IAM_14863].
 1.80E-30 >XP_001659933 D-isomer specific 2-hydroxyacid dehydrogenase, NAD-binding [Thermoanaerobacter_pseudethanolicus_ATCC_33223].
 1.50E-13 >XP_001535753 hypothetical protein HCAG_09330 [Ajellomyces_capsulatus_Nam1].
 2.80E-25 >XP_001535788 hypothetical protein HCAG_09286 [Ajellomyces_capsulatus_Nam1].
 5.20E-29 >XP_001535788 hypothetical protein HCAG_09286 [Ajellomyces_capsulatus_Nam1].
 4.90E-17 >XP_001535788 hypothetical protein HCAG_08549 [Ajellomyces_capsulatus_Nam1].
 9.10E-17 >XP_001535788 predicted protein [Ajellomyces_capsulatus_Nam1].
 1.20E-16 >XP_001538018 conserved hypothetical protein [Ajellomyces_capsulatus_Nam1].
 7.90E-50 >XP_001538833 hypothetical protein HCAG_06438 [Ajellomyces_capsulatus_Nam1].
 3.10E-28 >XP_001538833 hypothetical protein HCAG_06438 [Ajellomyces_capsulatus_Nam1].
 2.90E-21 >XP_001542783 conserved hypothetical protein [Ajellomyces_capsulatus_Nam1].
 4.90E-27 >XP_001543234 hypothetical protein HCAG_00280 [Ajellomyces_capsulatus_Nam1].
 4.60E-20 >XP_001543234 hypothetical protein HCAG_00280 [Ajellomyces_capsulatus_Nam1].
 1.30E-12 >XP_001543234 hypothetical protein HCAG_00280 [Ajellomyces_capsulatus_Nam1].
 4.90E-11 >XP_001543234 hypothetical protein HCAG_00280 [Ajellomyces_capsulatus_Nam1].
 1.20E-12 >XP_001543234 hypothetical protein HCAG_00280 [Ajellomyces_capsulatus_Nam1].
 1.70E-21 >XP_001543234 hypothetical protein HCAG_00280 [Ajellomyces_capsulatus_Nam1].
 1.20E-26 >XP_002851011 calnexin [Arthroderma_otae_CBS_113480].
 3.10E-21 >XP_002851011 conserved hypothetical protein [Aspergillus_flavus_NRRL3357].
 1.30E-13 >XP_002851618 LINE-1 retrotransposon-like element, putative [Aspergillus_flavus_NRRL3357].
 5.60E-14 >XP_662591 KAPR_EMENI CAMP-DEPENDENT PROTEIN KINASE REGULATORY CHAIN [Aspergillus_nidulans_FGSC_A4].
 8.60E-20 >XP_662591 KAPR_EMENI CAMP-DEPENDENT PROTEIN KINASE REGULATORY CHAIN [Aspergillus_nidulans_FGSC_A4].
 5.70E-11 >XP_663719 hypothetical protein AN115.2 [Aspergillus_nidulans_FGSC_A4].
 5.70E-11 >XP_663719 hypothetical protein AN115.2 [Aspergillus_nidulans_FGSC_A4].
 1.10E-16 >XP_681535 hypothetical protein AN8266.2 [Aspergillus_nidulans_FGSC_A4].
 1.70E-25 >XP_001392968 hypothetical protein AnO808550 [Aspergillus_niger].
 8.10E-34 >XP_001827173 hypothetical protein [Aspergillus_oryzae_R1840].
 5.30E-23 >XP_001218552 predicted protein [Aspergillus_terreus_NII2624].
 1.40E-62 >XP_001218552 predicted protein [Aspergillus_terreus_NII2624].
 8.30E-77 >XP_001218552 predicted protein [Aspergillus_terreus_NII2624].
 3.10E-11 >XP_001218552 predicted protein [Aspergillus_terreus_NII2624].
 8.90E-21 >XP_001218552 predicted protein [Aspergillus_terreus_NII2624].
 9.10E-13 >XP_001218552 predicted protein [Aspergillus_terreus_NII2624].
 9.60E-179 >XP_001218552 predicted protein [Aspergillus_terreus_NII2624].
 4.30E-53 >XP_001218552 predicted protein [Aspergillus_terreus_NII2624].
 1.60E-33 >XP_001218552 predicted protein [Aspergillus_terreus_NII2624].
 3.20E-31 >XP_001545956 hypothetical protein BCIG_15284 [Botryotinia_fuckeliana_00510].
 1.00E-48 >XP_001545956 hypothetical protein BCIG_15284 [Botryotinia_fuckeliana_00510].
 2.10E-11 >XP_001554416 hypothetical protein BCIG_07004 [Botryotinia_fuckeliana_00510].
 7.00E-19 >XP_001556588 calmodulin [Botryotinia_fuckeliana_00510].
 7.70E-28 >XP_001559924 hypothetical protein BCIG_01483 [Botryotinia_fuckeliana_00510].
 3.00E-13 >XP_010093 hypothetical protein CaO19_566 [Candida_albicans_SC5314].
 6.30E-28 >XP_002421116 retrotransposon reverse transcriptase, pseudogene, putative [Candida_dubliniensis_CD36].
 1.70E-13 >XP_449493 hypothetical protein [Candida_glabrata_CBS_138].
 7.80E-15 >XP_001221683 hypothetical protein CHGG_05588 [Chaetomium_globosum_CBS_148_51].
 1.30E-14 >XP_001221683 hypothetical protein CHGG_05588 [Chaetomium_globosum_CBS_148_51].
 2.70E-16 >XP_001221683 hypothetical protein CHGG_05588 [Chaetomium_globosum_CBS_148_51].
 2.20E-29 >XP_002615229 hypothetical protein CLUG_04111 [Clavispora_lusitaniae_ATCC_42720].
 1.40E-31 >XP_002615229 hypothetical protein CLUG_04111 [Clavispora_lusitaniae_ATCC_42720].
 9.30E-16 >XP_001245251 hypothetical protein CIMG_04692 [Coccidioides_immitis_RS].
 2.40E-15 >XP_001245251 hypothetical protein CIMG_04734 [Coccidioides_immitis_RS].
 4.30E-47 >XP_001247354 hypothetical protein CIMG_01125 [Coccidioides_immitis_RS].
 3.70E-13 >XP_001247354 hypothetical protein CIMG_01125 [Coccidioides_immitis_RS].
 4.00E-12 >XP_001249098 kinesin heavy chain [Coccidioides_immitis_RS].

ConsensusfromContig6942Fungi-Coccidioides_immitis_RS_gi119197189
 ConsensusfromContig13135Fungi-Cochliobolus_heterostrophus_CS_jgi83460
 ConsensusfromContig1980Fungi-Coprinopsis_cinerea_okayama7#130_gi299739478
 ConsensusfromContig5122Fungi-Coprinopsis_cinerea_okayama7#130_gi299739478
 ConsensusfromContig5397Fungi-Coprinopsis_cinerea_okayama7#130_gi299739478
 ConsensusfromContig1987Fungi-Coprinopsis_cinerea_okayama7#130_gi299750808
 ConsensusfromContig5370Fungi-Cryphonectria_parasitica_jgi43125
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 ConsensusfromContig5351Fungi-Gibberella_zeae_PH_1_gi46122427
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 ConsensusfromContig1955Fungi-Heterobasidium_annosum_jgi50655
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 ConsensusfromContig2336Fungi-Mucor_circinelloides_jgi11746
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 ConsensusfromContig2109Fungi-Mucor_circinelloides_jgi34535
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 ConsensusfromContig1976Fungi-Mucor_circinelloides_jgi80571
 ConsensusfromContig1990Fungi-Mucor_circinelloides_jgi87738
 ConsensusfromContig6963Fungi-Mucor_circinelloides_jgi93043
 ConsensusfromContig1954Fungi-Mucor_circinelloides_jgi93125
 ConsensusfromContig5120Fungi-Mucor_circinelloides_jgi9707
 ConsensusfromContig2384Fungi-Mycosphaerella_graminicola_jgi107669
 ConsensusfromContig1950Fungi-Mycosphaerella_graminicola_jgi37396
 ConsensusfromContig2915Fungi-Neurospora_crassa_OR74A_gi164424025
 ConsensusfromContig2566Fungi-Neurospora_crassa_OR74A_gi164429217
 ConsensusfromContig2123Fungi-Neurospora_discreta_jgi100584
 ConsensusfromContig7091Fungi-Penicillium_marneffei_ATCC_18224_gi212528198
 ConsensusfromContig3133Fungi-Penicillium_marneffei_ATCC_18224_gi212536790
 ConsensusfromContig2345Fungi-Phaeosphaeria_nodorum_SN15_gi169623203
 ConsensusfromContig5586Fungi-Phanerochaete_chrysosporium_jgi10655
 ConsensusfromContig5586Fungi-Phanerochaete_chrysosporium_jgi10655
 ConsensusfromContig7098Fungi-Phanerochaete_chrysosporium_jgi1398
 ConsensusfromContig2039Fungi-Phanerochaete_chrysosporium_jgi29618
 ConsensusfromContig2260Fungi-Phanerochaete_chrysosporium_jgi33698
 ConsensusfromContig5456Fungi-Phanerochaete_chrysosporium_jgi33720
 ConsensusfromContig2479Fungi-Phanerochaete_chrysosporium_jgi42809
 ConsensusfromContig7033Fungi-Phanerochaete_chrysosporium_jgi42809
 ConsensusfromContig1961Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig1994Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig2130Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig2462Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig2553Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig3121Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig5111Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig5158Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig6460Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig6943Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig7001Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig6947Fungi-Phycomyces_blakesleeanae_jgi23346
 ConsensusfromContig5816Fungi-Phycomyces_blakesleeanae_jgi34593
 ConsensusfromContig2017Fungi-Phycomyces_blakesleeanae_jgi36382
 ConsensusfromContig1957Fungi-Phycomyces_blakesleeanae_jgi4

1.90E-11 >XP_001249196 hypothetical protein CIMG_10358 [Coccidioides immitis RS].
 6.70E-51
 1.20E-85 >XP_001835316 transcriptional factor B3 [Coprinopsis cinerea okayama7#130].
 1.50E-92 >XP_001835316 transcriptional factor B3 [Coprinopsis cinerea okayama7#130].
 4.50E-21 >XP_001835316 transcriptional factor B3 [Coprinopsis cinerea okayama7#130].
 5.10E-70 >XP_001829840 ankyrin repeat domain-containing protein 44 [Coprinopsis cinerea okayama7#130].
 2.60E-27
 2.60E-27
 3.10E-69 >XP_775816 hypothetical protein CNBD5450 [Cryptococcus neoformans var. neoformans B-3501A].
 2.70E-68 >XP_775003 hypothetical protein CNBF1660 [Cryptococcus neoformans var. neoformans B-3501A].
 9.30E-18 >XP_771821 hypothetical protein CNBN1990 [Cryptococcus neoformans var. neoformans B-3501A].
 6.90E-16 >XP_567708 hypothetical protein [Cryptococcus neoformans var. neoformans JEC21].
 6.70E-15 >XP_570462 DNA supercoiling [Cryptococcus neoformans var. neoformans JEC21].
 3.10E-39 >XP_570544 hypothetical protein [Cryptococcus neoformans var. neoformans JEC21].
 3.70E-11 >XP_571377 retrotransposon nucleocapsid protein [Cryptococcus neoformans var. neoformans JEC21].
 1.20E-12 >XP_389092 hypothetical protein FG00816.1 [Gibberella zeae PH-1].
 5.40E-13 >XP_385767 hypothetical protein FG05591.1 [Gibberella zeae PH-1].
 1.60E-12
 4.10E-47
 1.20E-13
 8.00E-17 >XP_453840 unnamed protein product [Kluyveromyces lactis].
 2.40E-17 >XP_001887224 reverse transcriptase-RNase H-integrase [Laccaria bicolor S238N-H82].
 1.50E-12 >XP_001888293 predicted protein [Laccaria bicolor S238N-H82].
 6.60E-15 >XP_001526721 chromo domain protein 1 [Lodderomyces elongisporus NRRL YB-4239].
 1.70E-31 >XP_001528332 conserved hypothetical protein [Lodderomyces elongisporus NRRL YB-4239].
 6.00E-49 >XP_001404878 hypothetical protein MGG_13314 [Magnaporthe oryzae 70-15].
 6.70E-31 >XP_368232 hypothetical protein MGG_01012 [Magnaporthe oryzae 70-15].
 5.50E-28 >XP_363810 hypothetical protein MGG_11154 [Magnaporthe oryzae 70-15].
 3.60E-109 >XP_001414325 hypothetical protein MGG_13051 [Magnaporthe oryzae 70-15].
 2.30E-14 >XP_360653 hypothetical protein MGG_03196 [Magnaporthe oryzae 70-15].
 7.60E-29 >XP_369313 conserved hypothetical protein [Magnaporthe oryzae 70-15].
 1.40E-22 >XP_001729460 hypothetical protein MGL_3495 [Malassezia globosa CBS 7966].
 8.40E-24 >XP_001729903 hypothetical protein MGL_2889 [Malassezia globosa CBS 7966].
 7.20E-11 >XP_002387931 hypothetical protein MPER_13116 [Moniliophthora perniciosa FA553].
 7.50E-15 >XP_002387934 hypothetical protein MPER_13114 [Moniliophthora perniciosa FA553].
 4.40E-13 >XP_002388093 hypothetical protein MPER_12935 [Moniliophthora perniciosa FA553].
 5.90E-12 >XP_002388312 hypothetical protein MPER_12682 [Moniliophthora perniciosa FA553].
 2.10E-16 >XP_002388424 hypothetical protein MPER_12556 [Moniliophthora perniciosa FA553].
 2.40E-18 >XP_002388424 hypothetical protein MPER_12556 [Moniliophthora perniciosa FA553].
 2.40E-17 >XP_002388424 hypothetical protein MPER_12556 [Moniliophthora perniciosa FA553].
 2.00E-33 >XP_002388489 hypothetical protein MPER_12484 [Moniliophthora perniciosa FA553].
 1.80E-11 >XP_002389308 hypothetical protein MPER_11577 [Moniliophthora perniciosa FA553].
 8.40E-18 >XP_002394837 hypothetical protein MPER_05211 [Moniliophthora perniciosa FA553].
 8.20E-14 >XP_002396037 hypothetical protein MPER_03807 [Moniliophthora perniciosa FA553].
 8.20E-14 >XP_002396037 hypothetical protein MPER_03807 [Moniliophthora perniciosa FA553].
 2.30E-13 >XP_002396037 hypothetical protein MPER_03807 [Moniliophthora perniciosa FA553].
 1.20E-16 >XP_002396037 hypothetical protein MPER_03807 [Moniliophthora perniciosa FA553].
 2.10E-16
 9.40E-13
 9.40E-13
 1.70E-17
 6.80E-11
 1.40E-27
 5.70E-15
 7.10E-15
 5.70E-39
 8.90E-17
 8.90E-17
 2.50E-26
 2.50E-26
 1.20E-62
 2.70E-24
 2.00E-22
 5.30E-18
 4.20E-20
 6.30E-157
 6.40E-11
 2.70E-89
 3.90E-17
 1.20E-66
 6.50E-12
 3.60E-21 >XP_963276 hypothetical protein NCU08404 [Neurospora crassa OR74A].
 6.60E-11 >XP_962002 sulfite reductase beta subunit [Neurospora crassa OR74A].
 1.10E-12
 2.10E-17 >XP_002144256 cAMP-dependent protein kinase regulatory subunit PkaR [Penicillium marneffei ATCC 18224].
 7.40E-18 >XP_002148551 conserved hypothetical protein [Penicillium marneffei ATCC 18224].
 1.40E-16 >XP_001805009 hypothetical protein SNOG_14834 [Phaeosphaeria nodorum SN15].
 1.00E-11
 1.00E-11
 1.90E-11
 1.80E-54
 2.60E-15
 3.20E-72
 2.00E-15
 1.40E-20
 7.00E-16
 7.40E-15
 1.00E-25
 3.10E-39
 2.80E-11
 4.20E-65
 3.70E-45
 2.00E-29
 9.40E-14
 1.10E-39
 1.60E-56
 2.60E-68
 1.20E-32
 6.60E-76
 2.70E-24

ConsensusfromContig5170Fungi-Phycomyces_blakesleeanus_jgi4628	6.50E-16	
ConsensusfromContig2133Fungi-Phycomyces_blakesleeanus_jgi1942	9.90E-16	
ConsensusfromContig6950Fungi-Phycomyces_blakesleeanus_jgi76840	3.70E-29	
ConsensusfromContig8454Fungi-Phycomyces_blakesleeanus_jgi77729	1.10E-20	
ConsensusfromContig4517Fungi-Pichia_pastoris_GS115_gi254572892	1.00E-12	>XP_002493555 hypothetical protein [Pichia pastoris GS115].
ConsensusfromContig5662Fungi-Podospora_anserina_S_mat+_gi171684235	1.10E-16	>XP_001907059 hypothetical protein [Podospora anserina S mat+].
ConsensusfromContig5662Fungi-Podospora_anserina_S_mat+_gi171684235	1.10E-16	>XP_001907059 hypothetical protein [Podospora anserina S mat+].
ConsensusfromContig6127Fungi-Podospora_anserina_S_mat+_gi171685532	2.70E-11	>XP_001907707 hypothetical protein [Podospora anserina S mat+].
ConsensusfromContig3216Fungi-Podospora_anserina_S_mat+_gi171689846	2.40E-13	>XP_001909863 hypothetical protein [Podospora anserina S mat+].
ConsensusfromContig2710Fungi-Pyrenophora_tritici_repentis_Pt_1C_BFP_gi189209021	2.20E-22	>XP_001940843 vegetative incompatibility protein HET-E-1 [Pyrenophora tritici-repentis Pt-1C-BFP].
ConsensusfromContig1602Fungi-Rhizopus_oryzae_tBROL00000282_1	3.80E-12	
ConsensusfromContig6101Fungi-Rhizopus_oryzae_tBROL00002999_3	1.40E-27	
ConsensusfromContig6048Fungi-Rhizopus_oryzae_tBROL00003706_6	1.50E-15	
ConsensusfromContig6424Fungi-Rhizopus_oryzae_tBROL00003723_6	7.50E-11	
ConsensusfromContig4315Fungi-Rhizopus_oryzae_tBROL00004639_3	8.80E-27	
ConsensusfromContig4646Fungi-Schizosaccharomyces_pombe_gi19114853	2.80E-12	>NP_593941 1-(5-phosphoribosyl)-5-[(S-phosphoribosylamino) methylideneamino]imidazole-4-carboxamide (predicted) [Schizosaccharomyces pombe 972h-].
ConsensusfromContig3953Fungi-Sclerotinia_sclerotiorum_1980_UF_70_gi156035777	2.80E-17	>XP_001586000 hypothetical protein S51G_13092 [Sclerotinia sclerotiorum 1980].
ConsensusfromContig5118Fungi-Sclerotinia_sclerotiorum_1980_UF_70_gi156050243	5.90E-12	>XP_001591083 hypothetical protein S51G_07708 [Sclerotinia sclerotiorum 1980].
ConsensusfromContig5986Fungi-Sclerotinia_sclerotiorum_1980_UF_70_gi156051526	1.90E-17	>XP_001591724 hypothetical protein S51G_07170 [Sclerotinia sclerotiorum 1980].
ConsensusfromContig2462Fungi-Sclerotinia_sclerotiorum_1980_UF_70_gi156059422	1.20E-30	>XP_001595634 hypothetical protein S51G_03723 [Sclerotinia sclerotiorum 1980].
ConsensusfromContig5081Fungi-Sclerotinia_sclerotiorum_1980_UF_70_gi156060563	2.10E-11	>XP_001596204 hypothetical protein S51G_02421 [Sclerotinia sclerotiorum 1980].
ConsensusfromContig3166Fungi-Sclerotinia_sclerotiorum_1980_UF_70_gi156065843	1.20E-18	>XP_001598843 hypothetical protein S51G_00932 [Sclerotinia sclerotiorum 1980].
ConsensusfromContig7112Fungi-Spizellomyces_punctatus_tBSPLO0000110_1	4.50E-12	
ConsensusfromContig2695Fungi-Spizellomyces_punctatus_tBSPLO0000992_2	3.00E-11	
ConsensusfromContig1990Fungi-Sporobolomyces_roseus_jgi14468	4.60E-30	
ConsensusfromContig5102Fungi-Sporobolomyces_roseus_jgi14592	4.60E-93	
ConsensusfromContig6489Fungi-Sporobolomyces_roseus_jgi15328	5.60E-17	
ConsensusfromContig3127Fungi-Sporobolomyces_roseus_jgi1929	2.00E-23	
ConsensusfromContig7298Fungi-Sporobolomyces_roseus_jgi33223	6.80E-23	
ConsensusfromContig6354Fungi-Sporobolomyces_roseus_jgi8244	3.00E-18	
ConsensusfromContig5118Fungi-Sporotrichum_thermophile_jgi25766	2.00E-14	
ConsensusfromContig5249Fungi-Talaromyces_stipitatus_ATCC_10500_gi242761183	2.30E-14	>XP_002340131 G-protein beta WD-40 repeats containing protein, putative [Talaromyces stipitatus ATCC 10500].
ConsensusfromContig2143Fungi-Tremella_mesenterica_jgi26115	6.70E-14	
ConsensusfromContig3249Fungi-Tremella_mesenterica_jgi26115	1.10E-12	
ConsensusfromContig3129Fungi-Tremella_mesenterica_jgi27051	1.10E-53	
ConsensusfromContig2092Fungi-Tremella_mesenterica_jgi32265	1.80E-25	
ConsensusfromContig6916Fungi-Tremella_mesenterica_jgi36119	6.50E-26	
ConsensusfromContig3992Fungi-Tremella_mesenterica_jgi63092	2.60E-12	
ConsensusfromContig1967Fungi-Trichoderma_atroviride_jgi24644	3.00E-26	
ConsensusfromContig2346Fungi-Trichoderma_atroviride_jgi83589	1.80E-16	
ConsensusfromContig1966Fungi-Trichoderma_atroviride_jgi86734	1.10E-13	
ConsensusfromContig6753Fungi-Trichoderma_reesei_jgi34413	5.90E-15	
ConsensusfromContig6995Fungi-Trichoderma_virens_jgi24364	1.40E-16	
ConsensusfromContig7243Fungi-Trichoderma_virens_jgi68192	4.00E-13	
ConsensusfromContig3139Fungi-Trichoderma_virens_jgi69203	7.40E-20	
ConsensusfromContig2153Fungi-Trichoderma_virens_jgi85812	1.70E-21	
ConsensusfromContig1039Fungi-Tuber_melanosporum_Mel29_gi296412815	1.00E-12	>XP_002836115 hypothetical protein [Tuber melanosporum Mel29].
ConsensusfromContig2645Fungi-Ustilago_maydis_521_gi71005136	7.90E-15	>XP_757234 hypothetical protein UM01087.1 [Ustilago maydis 521].
ConsensusfromContig2799Fungi-Ustilago_maydis_521_gi71014070	1.10E-27	>XP_758692 hypothetical protein UM02545.1 [Ustilago maydis 521].
ConsensusfromContig2359Fungi-Ustilago_maydis_521_gi71018379	6.10E-17	>XP_759420 hypothetical protein UM03273.1 [Ustilago maydis 521].
ConsensusfromContig5963Fungi-Ustilago_maydis_521_gi71022033	9.10E-11	>XP_761247 hypothetical protein UM05100.1 [Ustilago maydis 521].
ConsensusfromContig3129Fungi-Ustilago_maydis_521_gi71024365	9.10E-24	>XP_762412 hypothetical protein UM0665.1 [Ustilago maydis 521].
ConsensusfromContig5139Fungi-Ustilago_maydis_521_gi71024365	1.10E-21	>XP_762412 hypothetical protein UM06265.1 [Ustilago maydis 521].
ConsensusfromContig2045Fungi-Yarrowia_lipolytica_CLIB122_gi50555167	9.10E-24	>XP_504992 YAL10F04422p [Yarrowia lipolytica].
ConsensusfromContig2000Fusobacteria-Fusobacterium_sp._1_41FAA_gi294782215	3.40E-33	>ZP_06747541 phage-associated terminase large subunit [Fusobacterium sp. 1_1_41FAA].
ConsensusfromContig1142Glaucophyta-Cyanophora_paradoxa_dxContig124_4	3.0E-12	
ConsensusfromContig5474Glaucophyta-Cyanophora_paradoxa_dxContig22_1	2.00E-26	
ConsensusfromContig2129Glaucophyta-Cyanophora_paradoxa_dxContig237_5	1.00E-240	
ConsensusfromContig7183Glaucophyta-Cyanophora_paradoxa_dxContig465_2	1.30E-50	
ConsensusfromContig2709Glaucophyta-Cyanophora_paradoxa_dxContig465_6	1.20E-14	
ConsensusfromContig2393Glaucophyta-Cyanophora_paradoxa_dxContig721_2	1.20E-34	
ConsensusfromContig3963Glaucophyta-Cyanophora_paradoxa_dxContig790_2	1.00E-36	
ConsensusfromContig3850Glaucophyta-Cyanophora_paradoxa_dxContig857_1	1.50E-20	
ConsensusfromContig3385Glaucophyta-Cyanophora_paradoxa_dxContig880_4	8.40E-61	
ConsensusfromContig2716Glaucophyta-Cyanophora_paradoxa_dxContig2742_4	3.10E-12	
ConsensusfromContig3544Glaucophyta-Cyanophora_paradoxa_tBCDL00001664_3	6.50E-60	
ConsensusfromContig5149Glaucophyta-Cyanophora_paradoxa_tBCDL00002429_1	1.10E-41	
ConsensusfromContig6113Glaucophyta-Cyanophora_paradoxa_tBCPL00000344_1	3.50E-20	
ConsensusfromContig1997Glaucophyta-Cyanophora_paradoxa_tBCPL0000457_2	5.90E-238	
ConsensusfromContig6016Glaucophyta-Cyanophora_paradoxa_tBCPL00001026_4	1.60E-21	
ConsensusfromContig5097Glaucophyta-Glaucocystis_nostochinearum_esContig356_2	1.90E-17	
ConsensusfromContig2306Glaucophyta-Glaucocystis_nostochinearum_esContig534_3	1.00E-17	
ConsensusfromContig5107Glaucophyta-Glaucocystis_nostochinearum_esContig668_1	2.00E-21	
ConsensusfromContig4642Glaucophyta-Glaucocystis_nostochinearum_esContig798_1	1.20E-34	
ConsensusfromContig2807Glaucophyta-Glaucocystis_nostochinearum_esContig815_5	7.90E-16	
ConsensusfromContig2022Glaucophyta-Glaucocystis_nostochinearum_esContig969_2	8.50E-91	
ConsensusfromContig5965Haptophyceae-Emiliania_huxleyi_jgi100471	4.10E-14	
ConsensusfromContig2454Haptophyceae-Emiliania_huxleyi_jgi100487	1.40E-18	
ConsensusfromContig2345Haptophyceae-Emiliania_huxleyi_jgi101482	1.70E-11	
ConsensusfromContig2436Haptophyceae-Emiliania_huxleyi_jgi101482	7.80E-19	
ConsensusfromContig5578Haptophyceae-Emiliania_huxleyi_jgi102338	1.10E-16	
ConsensusfromContig2440Haptophyceae-Emiliania_huxleyi_jgi102453	5.10E-12	
ConsensusfromContig2992Haptophyceae-Emiliania_huxleyi_jgi102453	1.70E-13	
ConsensusfromContig5145Haptophyceae-Emiliania_huxleyi_jgi102453	1.60E-26	
ConsensusfromContig2892Haptophyceae-Emiliania_huxleyi_jgi102665	2.20E-13	
ConsensusfromContig5135Haptophyceae-Emiliania_huxleyi_jgi103044	2.40E-57	
ConsensusfromContig5951Haptophyceae-Emiliania_huxleyi_jgi103561	6.00E-20	
ConsensusfromContig5951Haptophyceae-Emiliania_huxleyi_jgi103561	5.00E-20	
ConsensusfromContig1973Haptophyceae-Emiliania_huxleyi_jgi103855	1.10E-37	
ConsensusfromContig3107Haptophyceae-Emiliania_huxleyi_jgi104030	8.50E-13	
ConsensusfromContig2005Haptophyceae-Emiliania_huxleyi_jgi104746	3.70E-55	
ConsensusfromContig2288Haptophyceae-Emiliania_huxleyi_jgi105876	2.90E-23	
ConsensusfromContig1933Haptophyceae-Emiliania_huxleyi_jgi106292	9.10E-18	
ConsensusfromContig8206Haptophyceae-Emiliania_huxleyi_jgi106804	7.20E-19	
ConsensusfromContig3771Haptophyceae-Emiliania_huxleyi_jgi107359	3.80E-11	
ConsensusfromContig5144Haptophyceae-Emiliania_huxleyi_jgi107359	1.50E-91	
ConsensusfromContig7147Haptophyceae-Emiliania_huxleyi_jgi108038	4.70E-14	
ConsensusfromContig2958Haptophyceae-Emiliania_huxleyi_jgi108458	3.90E-22	
ConsensusfromContig1780Haptophyceae-Emiliania_huxleyi_jgi111295	4.50E-11	
ConsensusfromContig7160Haptophyceae-Emiliania_huxleyi_jgi111890	1.50E-14	

ConsensusfromContig1532Haptophyceae-Emiliania_huxleyi_jgi112129	1.70E-29
ConsensusfromContig5429Haptophyceae-Emiliania_huxleyi_jgi114705	1.90E-16
ConsensusfromContig1977Haptophyceae-Emiliania_huxleyi_jgi114959	1.10E-16
ConsensusfromContig5195Haptophyceae-Emiliania_huxleyi_jgi115340	4.80E-16
ConsensusfromContig6366Haptophyceae-Emiliania_huxleyi_jgi116982	1.10E-21
ConsensusfromContig2582Haptophyceae-Emiliania_huxleyi_jgi118044	5.80E-11
ConsensusfromContig6027Haptophyceae-Emiliania_huxleyi_jgi118389	4.20E-21
ConsensusfromContig2079Haptophyceae-Emiliania_huxleyi_jgi118844	3.30E-18
ConsensusfromContig6176Haptophyceae-Emiliania_huxleyi_jgi120758	6.20E-13
ConsensusfromContig5126Haptophyceae-Emiliania_huxleyi_jgi121687	3.20E-23
ConsensusfromContig7094Haptophyceae-Emiliania_huxleyi_jgi122142	9.30E-12
ConsensusfromContig4539Haptophyceae-Emiliania_huxleyi_jgi122517	5.20E-11
ConsensusfromContig3825Haptophyceae-Emiliania_huxleyi_jgi124916	9.90E-14
ConsensusfromContig5238Haptophyceae-Emiliania_huxleyi_jgi1193771	4.40E-73
ConsensusfromContig1462Haptophyceae-Emiliania_huxleyi_jgi194364	6.40E-13
ConsensusfromContig2046Haptophyceae-Emiliania_huxleyi_jgi194364	1.10E-47
ConsensusfromContig3483Haptophyceae-Emiliania_huxleyi_jgi194364	6.80E-47
ConsensusfromContig1989Haptophyceae-Emiliania_huxleyi_jgi194410	4.00E-55
ConsensusfromContig2353Haptophyceae-Emiliania_huxleyi_jgi194410	7.40E-24
ConsensusfromContig5128Haptophyceae-Emiliania_huxleyi_jgi194410	3.00E-52
ConsensusfromContig5289Haptophyceae-Emiliania_huxleyi_jgi194410	2.80E-26
ConsensusfromContig2600Haptophyceae-Emiliania_huxleyi_jgi194414	4.60E-15
ConsensusfromContig5619Haptophyceae-Emiliania_huxleyi_jgi195267	5.90E-19
ConsensusfromContig2161Haptophyceae-Emiliania_huxleyi_jgi195332	8.80E-29
ConsensusfromContig5829Haptophyceae-Emiliania_huxleyi_jgi195332	9.50E-21
ConsensusfromContig2927Haptophyceae-Emiliania_huxleyi_jgi195350	2.40E-27
ConsensusfromContig2451Haptophyceae-Emiliania_huxleyi_jgi196059	5.30E-14
ConsensusfromContig2583Haptophyceae-Emiliania_huxleyi_jgi197111	1.20E-23
ConsensusfromContig2002Haptophyceae-Emiliania_huxleyi_jgi197156	7.10E-24
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ConsensusfromContig2795Haptophyceae-Emiliania_huxleyi_jgi199401	1.10E-22
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ConsensusfromContig2218Haptophyceae-Emiliania_huxleyi_jgi199723	2.60E-22
ConsensusfromContig3122Haptophyceae-Emiliania_huxleyi_jgi199862	3.00E-36
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ConsensusfromContig6975Haptophyceae-Emiliania_huxleyi_jgi203982	1.90E-37
ConsensusfromContig1718Haptophyceae-Emiliania_huxleyi_jgi205377	5.30E-12
ConsensusfromContig1933Haptophyceae-Emiliania_huxleyi_jgi205415	5.00E-132
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ConsensusfromContig6981Haptophyceae-Emiliania_huxleyi_jgi207426	2.00E-21
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ConsensusfromContig2144Haptophyceae-Emiliania_huxleyi_jgi208941	8.70E-28
ConsensusfromContig5225Haptophyceae-Emiliania_huxleyi_jgi209560	1.30E-13
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ConsensusfromContig2313Haptophyceae-Isochrysis_galbana_tbsl00002317_2	4.70E-11
ConsensusfromContig5115Haptophyceae-Isochrysis_galbana_tbsl00002317_2	7.10E-31
ConsensusfromContig5171Haptophyceae-Isochrysis_galbana_tbsl00002317_2	9.30E-12
ConsensusfromContig1947Haptophyceae-Isochrysis_galbana_tbsl00002332_2	6.70E-12
ConsensusfromContig2208Haptophyceae-Isochrysis_galbana_tbsl00002365_2	3.10E-38
ConsensusfromContig3317Haptophyceae-Isochrysis_galbana_tbsl00002426_1	4.70E-20
ConsensusfromContig5455Haptophyceae-Isochrysis_galbana_tbsl00003649_2	5.20E-17
ConsensusfromContig4279Haptophyceae-Isochrysis_galbana_tbsl00003931_2	6.20E-19
ConsensusfromContig1938Haptophyceae-Isochrysis_galbana_tbsl00004212_1	8.10E-11
ConsensusfromContig2069Haptophyceae-Isochrysis_galbana_tbsl00004546_3	1.30E-46
ConsensusfromContig5513Haptophyceae-Isochrysis_galbana_tbsl00007307_1	1.40E-13
ConsensusfromContig5699Haptophyceae-Pavlova_lutheri_tbpLL0000075_6	2.70E-11
ConsensusfromContig1934Haptophyceae-Pavlova_lutheri_tbpLL00000270_3	1.30E-14
ConsensusfromContig2951Haptophyceae-Pavlova_lutheri_tbpLL00000345_1	1.70E-37
ConsensusfromContig5361Haptophyceae-Pavlova_lutheri_tbpLL00000345_1	3.80E-20
ConsensusfromContig7128Haptophyceae-Pavlova_lutheri_tbpLL00001356_2	5.30E-13
ConsensusfromContig4760Haptophyceae-Pavlova_lutheri_tbpLL00001525_2	2.20E-12
ConsensusfromContig2277Haptophyceae-Pavlova_lutheri_tbpLL00001598_3	7.90E-14
ConsensusfromContig6992Haptophyceae-Pavlova_lutheri_tbpLL00002602_2	1.30E-13
ConsensusfromContig1869Haptophyceae-Pavlova_lutheri_tbpLL00002635_1	2.60E-11
ConsensusfromContig5174Metazoa-Acyrthosiphon_pisum_gi19359610	3.60E-12
ConsensusfromContig4123Metazoa-Acyrthosiphon_pisum_gi19359679	6.60E-13
ConsensusfromContig2272Metazoa-Acyrthosiphon_pisum_gi193618024	7.80E-61
ConsensusfromContig2152Metazoa-Acyrthosiphon_pisum_gi193620339	4.80E-12
ConsensusfromContig6985Metazoa-Acyrthosiphon_pisum_gi193624968	2.00E-16
ConsensusfromContig3523Metazoa-Acyrthosiphon_pisum_gi193652654	7.30E-24
ConsensusfromContig2956Metazoa-Acyrthosiphon_pisum_gi193654871	4.00E-41
ConsensusfromContig5908Metazoa-Acyrthosiphon_pisum_gi193666950	1.70E-15
ConsensusfromContig3129Metazoa-Acyrthosiphon_pisum_gi193690850	1.50E-26
ConsensusfromContig1385Metazoa-Aedes_aegypti_gi157106769	1.20E-16
ConsensusfromContig736 Metazoa-Aedes_aegypti_gi157112757	1.80E-11
ConsensusfromContig736 Metazoa-Aedes_aegypti_gi157104634	1.80E-11
ConsensusfromContig6930Metazoa-Acyrthosiphon_pisum_gi193716098	1.70E-18
ConsensusfromContig1274Metazoa-Aedes_aegypti_gi157105151	6.20E-13
ConsensusfromContig1385Metazoa-Aedes_aegypti_gi157106769	5.70E-17
ConsensusfromContig6930Metazoa-Aedes_aegypti_gi157112757	4.40E-21
ConsensusfromContig2476Metazoa-Aedes_aegypti_gi157114411	4.20E-31
ConsensusfromContig2141Metazoa-Aedes_aegypti_gi157119028	1.60E-14
ConsensusfromContig3470Metazoa-Aedes_aegypti_gi157120352	9.00E-18
ConsensusfromContig2050Metazoa-Aedes_aegypti_gi157127870	1.10E-16
ConsensusfromContig1934Metazoa-Aedes_aegypti_gi157128919	1.10E-68
ConsensusfromContig7448Metazoa-Aedes_aegypti_gi157134658	3.40E-12
ConsensusfromContig2264Metazoa-Aedes_aegypti_gi157136853	1.40E-53
ConsensusfromContig1135Metazoa-Amphimedon_queenslandica_jgiAqu1200959	2.40E-13
ConsensusfromContig2993Metazoa-Amphimedon_queenslandica_jgiAqu1200959	1.50E-11
ConsensusfromContig5163Metazoa-Amphimedon_queenslandica_jgiAqu1200971	5.40E-11
ConsensusfromContig6019Metazoa-Amphimedon_queenslandica_jgiAqu1201032	2.90E-37
ConsensusfromContig1933Metazoa-Amphimedon_queenslandica_jgiAqu1201944	1.60E-62

ConsensusfromContig1946Metazoa-Bos_taurus_gi119909988 3.60E-43 >XP_001256367 PREDICTED: ATP-binding cassette, sub-family C (CFTR/MRP), member 12-like [Bos taurus].
 ConsensusfromContig5140Metazoa-Bos_taurus_gi119920738 8.70E-15 >XP_006018883 PREDICTED: NIMA-related protein 10 [Bos taurus].
 ConsensusfromContig5554Metazoa-Bos_taurus_gi194676951 1.80E-29 >XP_001789733 PREDICTED: leucine carboxyl methyltransferase 2 (predicted)-like [Bos taurus].
 ConsensusfromContig4882Metazoa-Branchiostoma_floridae_gi260782022 6.20E-11 >XP_002586092 hypothetical protein BRAFLDRAFT_139422 [Branchiostoma floridae].
 ConsensusfromContig5349Metazoa-Branchiostoma_floridae_gi260782022 1.50E-11 >XP_002586092 hypothetical protein BRAFLDRAFT_139422 [Branchiostoma floridae].
 ConsensusfromContig5349Metazoa-Branchiostoma_floridae_gi260782187 3.70E-14 >XP_002586092 hypothetical protein BRAFLDRAFT_109674 [Branchiostoma floridae].
 ConsensusfromContig7415Metazoa-Branchiostoma_floridae_gi260782452 3.70E-23 >XP_002586301 hypothetical protein BRAFLDRAFT_82907 [Branchiostoma floridae].
 ConsensusfromContig2332Metazoa-Branchiostoma_floridae_gi260782551 2.30E-15 >XP_002586349 hypothetical protein BRAFLDRAFT_108829 [Branchiostoma floridae].
 ConsensusfromContig5768Metazoa-Branchiostoma_floridae_gi260784173 1.30E-11 >XP_002587143 hypothetical protein BRAFLDRAFT_61708 [Branchiostoma floridae].
 ConsensusfromContig1125Metazoa-Branchiostoma_floridae_gi260784388 1.30E-13 >XP_002587249 hypothetical protein BRAFLDRAFT_270316 [Branchiostoma floridae].
 ConsensusfromContig1961Metazoa-Branchiostoma_floridae_gi260785090 1.20E-30 >XP_002587396 hypothetical protein BRAFLDRAFT_250468 [Branchiostoma floridae].
 ConsensusfromContig2504Metazoa-Branchiostoma_floridae_gi260786970 5.50E-17 >XP_002588529 hypothetical protein BRAFLDRAFT_79485 [Branchiostoma floridae].
 ConsensusfromContig1275Metazoa-Branchiostoma_floridae_gi260787006 1.20E-21 >XP_002588547 hypothetical protein BRAFLDRAFT_122359 [Branchiostoma floridae].
 ConsensusfromContig2181Metazoa-Branchiostoma_floridae_gi260788155 1.60E-24 >XP_002589116 hypothetical protein BRAFLDRAFT_144886 [Branchiostoma floridae].
 ConsensusfromContig5455Metazoa-Branchiostoma_floridae_gi260789334 6.90E-15 >XP_002590999 hypothetical protein BRAFLDRAFT_135646 [Branchiostoma floridae].
 ConsensusfromContig7110Metazoa-Branchiostoma_floridae_gi260791673 4.70E-19 >XP_002590853 hypothetical protein BRAFLDRAFT_125711 [Branchiostoma floridae].
 ConsensusfromContig4275Metazoa-Branchiostoma_floridae_gi260791904 2.00E-15 >XP_002590967 hypothetical protein BRAFLDRAFT_69482 [Branchiostoma floridae].
 ConsensusfromContig2053Metazoa-Branchiostoma_floridae_gi260791928 4.60E-17 >XP_002590979 hypothetical protein BRAFLDRAFT_69470 [Branchiostoma floridae].
 ConsensusfromContig2053Metazoa-Branchiostoma_floridae_gi260791928 4.60E-17 >XP_002590979 hypothetical protein BRAFLDRAFT_69470 [Branchiostoma floridae].
 ConsensusfromContig5978Metazoa-Branchiostoma_floridae_gi260791928 5.30E-11 >XP_002590979 hypothetical protein BRAFLDRAFT_69470 [Branchiostoma floridae].
 ConsensusfromContig6959Metazoa-Branchiostoma_floridae_gi260791928 1.00E-17 >XP_002590979 hypothetical protein BRAFLDRAFT_69470 [Branchiostoma floridae].
 ConsensusfromContig2852Metazoa-Branchiostoma_floridae_gi260793206 3.80E-15 >XP_002591603 hypothetical protein BRAFLDRAFT_223487 [Branchiostoma floridae].
 ConsensusfromContig7049Metazoa-Branchiostoma_floridae_gi260794374 1.10E-12 >XP_002592184 hypothetical protein BRAFLDRAFT_88079 [Branchiostoma floridae].
 ConsensusfromContig4638Metazoa-Branchiostoma_floridae_gi260794631 9.80E-11 >XP_002592312 hypothetical protein BRAFLDRAFT_207041 [Branchiostoma floridae].
 ConsensusfromContig5382Metazoa-Branchiostoma_floridae_gi260794631 2.10E-12 >XP_002592312 hypothetical protein BRAFLDRAFT_207041 [Branchiostoma floridae].
 ConsensusfromContig5404Metazoa-Branchiostoma_floridae_gi260796177 4.90E-16 >XP_002593081 hypothetical protein BRAFLDRAFT_72844 [Branchiostoma floridae].
 ConsensusfromContig5129Metazoa-Branchiostoma_floridae_gi260800285 5.00E-95 >XP_002595064 hypothetical protein BRAFLDRAFT_60124 [Branchiostoma floridae].
 ConsensusfromContig3739Metazoa-Branchiostoma_floridae_gi260800285 3.30E-13 >XP_002595064 hypothetical protein BRAFLDRAFT_60124 [Branchiostoma floridae].
 ConsensusfromContig1943Metazoa-Branchiostoma_floridae_gi260803459 3.80E-26 >XP_002596607 hypothetical protein BRAFLDRAFT_280249 [Branchiostoma floridae].
 ConsensusfromContig8782Metazoa-Branchiostoma_floridae_gi260803521 2.80E-11 >XP_002596638 hypothetical protein BRAFLDRAFT_219218 [Branchiostoma floridae].
 ConsensusfromContig7227Metazoa-Branchiostoma_floridae_gi260803521 4.80E-18 >XP_002596638 hypothetical protein BRAFLDRAFT_219218 [Branchiostoma floridae].
 ConsensusfromContig1563Metazoa-Branchiostoma_floridae_gi260803838 2.80E-13 >XP_002596796 hypothetical protein BRAFLDRAFT_211833 [Branchiostoma floridae].
 ConsensusfromContig2228Metazoa-Branchiostoma_floridae_gi260803838 8.20E-44 >XP_002596796 hypothetical protein BRAFLDRAFT_211833 [Branchiostoma floridae].
 ConsensusfromContig2181Metazoa-Branchiostoma_floridae_gi260804277 6.10E-31 >XP_002597015 hypothetical protein BRAFLDRAFT_215938 [Branchiostoma floridae].
 ConsensusfromContig2181Metazoa-Branchiostoma_floridae_gi260804277 6.10E-31 >XP_002597015 hypothetical protein BRAFLDRAFT_215938 [Branchiostoma floridae].
 ConsensusfromContig5258Metazoa-Branchiostoma_floridae_gi260804277 4.70E-17 >XP_002597015 hypothetical protein BRAFLDRAFT_215938 [Branchiostoma floridae].
 ConsensusfromContig2434Metazoa-Branchiostoma_floridae_gi260804447 2.40E-11 >XP_002597099 hypothetical protein BRAFLDRAFT_121315 [Branchiostoma floridae].
 ConsensusfromContig2034Metazoa-Branchiostoma_floridae_gi260804592 1.70E-25 >XP_002598118 hypothetical protein BRAFLDRAFT_85664 [Branchiostoma floridae].
 ConsensusfromContig3132Metazoa-Branchiostoma_floridae_gi260806591 2.20E-12 >XP_002598177 hypothetical protein BRAFLDRAFT_114725 [Branchiostoma floridae].
 ConsensusfromContig5786Metazoa-Branchiostoma_floridae_gi260806599 7.00E-12 >XP_002598171 hypothetical protein BRAFLDRAFT_119101 [Branchiostoma floridae].
 ConsensusfromContig7053Metazoa-Branchiostoma_floridae_gi260806599 9.50E-14 >XP_002598171 hypothetical protein BRAFLDRAFT_119101 [Branchiostoma floridae].
 ConsensusfromContig2164Metazoa-Branchiostoma_floridae_gi260809500 8.00E-12 >XP_002598543 hypothetical protein BRAFLDRAFT_217776 [Branchiostoma floridae].
 ConsensusfromContig4970Metazoa-Branchiostoma_floridae_gi260809656 1.50E-26 >XP_002600951 hypothetical protein BRAFLDRAFT_1720 [Branchiostoma floridae].
 ConsensusfromContig2672Metazoa-Branchiostoma_floridae_gi260811335 2.20E-24 >XP_002600378 hypothetical protein BRAFLDRAFT_170475 [Branchiostoma floridae].
 ConsensusfromContig7225Metazoa-Branchiostoma_floridae_gi260811335 2.60E-20 >XP_002600378 hypothetical protein BRAFLDRAFT_170475 [Branchiostoma floridae].
 ConsensusfromContig6951Metazoa-Branchiostoma_floridae_gi260812916 7.90E-35 >XP_002601166 hypothetical protein BRAFLDRAFT_75615 [Branchiostoma floridae].
 ConsensusfromContig4018Metazoa-Branchiostoma_floridae_gi260812916 4.30E-11 >XP_002601195 hypothetical protein BRAFLDRAFT_75637 [Branchiostoma floridae].
 ConsensusfromContig7385Metazoa-Branchiostoma_floridae_gi260812974 3.70E-11 >XP_002601195 hypothetical protein BRAFLDRAFT_75637 [Branchiostoma floridae].
 ConsensusfromContig5921Metazoa-Branchiostoma_floridae_gi260814147 3.60E-19 >XP_002601777 hypothetical protein BRAFLDRAFT_121174 [Branchiostoma floridae].
 ConsensusfromContig7098Metazoa-Branchiostoma_floridae_gi260814494 2.30E-14 >XP_002601950 hypothetical protein BRAFLDRAFT_86434 [Branchiostoma floridae].
 ConsensusfromContig2005Metazoa-Branchiostoma_floridae_gi260815375 1.60E-50 >XP_002602448 hypothetical protein BRAFLDRAFT_63459 [Branchiostoma floridae].
 ConsensusfromContig2022Metazoa-Branchiostoma_floridae_gi260815375 5.60E-50 >XP_002602448 hypothetical protein BRAFLDRAFT_63459 [Branchiostoma floridae].
 ConsensusfromContig2017Metazoa-Branchiostoma_floridae_gi260816819 9.00E-39 >XP_002603285 hypothetical protein BRAFLDRAFT_226384 [Branchiostoma floridae].
 ConsensusfromContig1080Metazoa-Branchiostoma_floridae_gi260817774 3.60E-20 >XP_002603760 hypothetical protein BRAFLDRAFT_86588 [Branchiostoma floridae].
 ConsensusfromContig2170Metazoa-Branchiostoma_floridae_gi260821499 5.00E-25 >XP_002606070 hypothetical protein BRAFLDRAFT_92090 [Branchiostoma floridae].
 ConsensusfromContig5455Metazoa-Branchiostoma_floridae_gi260821499 2.20E-16 >XP_002606070 hypothetical protein BRAFLDRAFT_92090 [Branchiostoma floridae].
 ConsensusfromContig2165Metazoa-Branchiostoma_floridae_gi260821639 8.80E-41 >XP_002606140 hypothetical protein BRAFLDRAFT_88051 [Branchiostoma floridae].
 ConsensusfromContig1572Metazoa-Branchiostoma_floridae_gi260821780 2.90E-15 >XP_002606281 hypothetical protein BRAFLDRAFT_67520 [Branchiostoma floridae].
 ConsensusfromContig4158Metazoa-Branchiostoma_floridae_gi260823118 4.10E-16 >XP_002604030 hypothetical protein BRAFLDRAFT_71680 [Branchiostoma floridae].
 ConsensusfromContig1967Metazoa-Branchiostoma_floridae_gi260823352 5.20E-18 >XP_002604147 hypothetical protein BRAFLDRAFT_208101 [Branchiostoma floridae].
 ConsensusfromContig2340Metazoa-Branchiostoma_floridae_gi260824189 5.90E-23 >XP_002605615 hypothetical protein BRAFLDRAFT_125029 [Branchiostoma floridae].
 ConsensusfromContig7373Metazoa-Branchiostoma_floridae_gi260824523 1.40E-17 >XP_002607217 hypothetical protein BRAFLDRAFT_67985 [Branchiostoma floridae].
 ConsensusfromContig5225Metazoa-Branchiostoma_floridae_gi260824890 1.90E-45 >XP_002607400 hypothetical protein BRAFLDRAFT_204961 [Branchiostoma floridae].
 ConsensusfromContig1977Metazoa-Branchiostoma_floridae_gi260826470 6.00E-37 >XP_002608188 hypothetical protein BRAFLDRAFT_125860 [Branchiostoma floridae].
 ConsensusfromContig2375Metazoa-Branchiostoma_floridae_gi260826470 7.90E-22 >XP_002608188 hypothetical protein BRAFLDRAFT_125860 [Branchiostoma floridae].
 ConsensusfromContig6130Metazoa-Branchiostoma_floridae_gi260826470 1.70E-53 >XP_002608188 hypothetical protein BRAFLDRAFT_125860 [Branchiostoma floridae].
 ConsensusfromContig1196Metazoa-Branchiostoma_floridae_gi260827166 2.10E-14 >XP_002608536 hypothetical protein BRAFLDRAFT_92365 [Branchiostoma floridae].
 ConsensusfromContig4234Metazoa-Branchiostoma_floridae_gi260827166 7.50E-13 >XP_002608536 hypothetical protein BRAFLDRAFT_92365 [Branchiostoma floridae].
 ConsensusfromContig5695Metazoa-Branchiostoma_floridae_gi260828999 1.20E-21 >XP_002609450 hypothetical protein BRAFLDRAFT_226607 [Branchiostoma floridae].
 ConsensusfromContig5789Metazoa-Branchiostoma_floridae_gi260829331 2.20E-16 >XP_002609615 hypothetical protein BRAFLDRAFT_125029 [Branchiostoma floridae].
 ConsensusfromContig7133Metazoa-Branchiostoma_floridae_gi260831430 8.10E-14 >XP_002610662 hypothetical protein BRAFLDRAFT_202192 [Branchiostoma floridae].
 ConsensusfromContig1946Metazoa-Branchiostoma_floridae_gi260832882 2.60E-15 >XP_002611386 hypothetical protein BRAFLDRAFT_73217 [Branchiostoma floridae].
 ConsensusfromContig2100Metazoa-Branchiostoma_floridae_gi260833024 3.50E-23 >XP_002611457 hypothetical protein BRAFLDRAFT_63910 [Branchiostoma floridae].
 ConsensusfromContig1840Metazoa-Branchiostoma_floridae_gi260833144 2.20E-16 >XP_002611517 hypothetical protein BRAFLDRAFT_117190 [Branchiostoma floridae].
 ConsensusfromContig2938Metazoa-Branchiostoma_floridae_gi260833935 1.30E-15 >XP_002611967 hypothetical protein BRAFLDRAFT_91852 [Branchiostoma floridae].
 ConsensusfromContig1623Metazoa-Branchiostoma_floridae_gi260835695 9.40E-13 >XP_002612843 hypothetical protein BRAFLDRAFT_67209 [Branchiostoma floridae].
 ConsensusfromContig6496Metazoa-Branchiostoma_floridae_gi260835699 7.70E-26 >XP_002612845 hypothetical protein BRAFLDRAFT_118409 [Branchiostoma floridae].
 ConsensusfromContig3650Metazoa-Branchiostoma_floridae_gi260839820 1.40E-14 >XP_002613780 hypothetical protein BRAFLDRAFT_124169 [Branchiostoma floridae].
 ConsensusfromContig5780Metazoa-Branchiostoma_floridae_gi261289479 8.50E-20 >XP_002617431 hypothetical protein BRAFLDRAFT_71431 [Branchiostoma floridae].
 ConsensusfromContig5107Metazoa-Brugia_malay_i17057958 2.00E-11 >XP_001895056 Histidine-rich glycoprotein precursor [Brugia malayi].
 ConsensusfromContig2351Metazoa-Buddenbrockia_plumatellae_tbbPL00000348_2 1.20E-35 >XP_002637166 C. briggsae CBR-GSP-1 protein [Caenorhabditis briggsae].
 ConsensusfromContig2351Metazoa-Buddenbrockia_plumatellae_tbbPL00000348_2 4.20E-17 >XP_002637166 C. briggsae CBR-GSP-1 protein [Caenorhabditis briggsae].
 ConsensusfromContig667Metazoa-Caenorhabditis_briggsae_gi268558352 3.30E-12 >XP_002638248 Hypothetical protein CBG15910 [Caenorhabditis briggsae].
 ConsensusfromContig3553Metazoa-Caenorhabditis_briggsae_gi268561144 3.40E-11 >XP_002639383 Hypothetical protein CBG03970 [Caenorhabditis briggsae].
 ConsensusfromContig3615Metazoa-Caenorhabditis_briggsae_gi268565247 6.40E-15 >XP_002647896 Hypothetical protein CBG23762 [Caenorhabditis briggsae].
 ConsensusfromContig6907Metazoa-Caenorhabditis_briggsae_gi268567884 6.90E-26 >XP_002647896 Hypothetical protein CBG23762 [Caenorhabditis briggsae].
 ConsensusfromContig4650Metazoa-Caenorhabditis_briggsae_gi268572907 1.20E-11 >XP_002649075 Hypothetical protein CBG22566 [Caenorhabditis briggsae].
 ConsensusfromContig3437Metazoa-Caenorhabditis_elegans_gi175416917 2.70E-12 >XP_00265214 Hypothetical protein H12113.3 [Caenorhabditis elegans].
 ConsensusfromContig1153Metazoa-Caenorhabditis_elegans_gi17541656 2.20E-12 >NP_501984 Na/Ca exchangers family member (nxc-3) [Caenorhabditis elegans].
 ConsensusfromContig3335Metazoa-Caenorhabditis_elegans_gi17550776 1.50E-18 >NP_510803 hypothetical protein C3E10.6 [Caenorhabditis elegans].
 ConsensusfromContig4126Metazoa-Caenorhabditis_elegans_gi17550776 1.20E-17 >NP_510803 hypothetical protein C3E10.6 [Caenorhabditis elegans].
 ConsensusfromContig4653Metazoa-Caenorhabditis_elegans_gi179857668 3.00E-18 >NP_001222723 E1onkation Factor Kinase family member (efk-1) [Caenorhabditis elegans].
 ConsensusfromContig1441Metazoa-Callithrix_jacchus_gi296190105 2.30E-12 >XP_002743054 PREDICTED: WD40 repeat-containing protein SMU1 isoform 2 [Callithrix jacchus].
 ConsensusfromContig2356Metazoa-Callithrix_jacchus_gi296193364 1.30E-25 >XP_002744490 PREDICTED: mitotic spindle assembly checkpoint protein MAD1 [Callithrix jacchus].
 ConsensusfromContig5839Metazoa-Callithrix_jacchus_gi296194950 3.90E-13 >XP_002745185 PREDICTED: hypothetical protein LOC100389613 [Callithrix jacchus].
 ConsensusfromContig5100Metazoa-Callithrix_jacchus_gi296219315 5.60E-126 >XP_002759441 PREDICTED: ATP-binding cassette sub-family A member 3 isoform 1 [Callithrix jacchus].
 ConsensusfromContig3502Metazoa-Callithrix_jacchus_gi296232479 2.00E-14 >XP_002761619 PREDICTED: hypothetical protein LOC100412928, partial [Callithrix jacchus].
 ConsensusfromContig3502Metazoa-Callithrix_jacchus_gi296232479 2.00E-14 >XP_002761610 PREDICTED: hypothetical protein LOC100412928, partial [Callithrix jacchus].
 ConsensusfromContig1999Metazoa-Canis_lupus_familiaris_gi73977360 1.60E-165 >XP_864115 PREDICTED: similar to Chromodomain-helicase DNA-binding protein 8 (CHD-8) (Helicase with SNF2 domain 1) isoform 3 [Canis familiaris].
 ConsensusfromContig5185Metazoa-Canis_lupus_familiaris_gi73980394 6.20E-25 >XP_532876 PREDICTED: similar to Protein disulfide-isomerase A6 precursor (Thioredoxin domain containing protein 7) [Canis familiaris].

ConsensusfromContig3347Metazoa-Canis_lupus_familiaris_gi73986826
 ConsensusfromContig2365Metazoa-Canis_lupus_familiaris_gi74007402
 ConsensusfromContig1009Metazoa-Cavia_porcellus_gi290491236
 ConsensusfromContig7116Metazoa-Ciona_intestinalis_gi198415822
 ConsensusfromContig6781Metazoa-Ciona_intestinalis_gi198415937
 ConsensusfromContig7116Metazoa-Ciona_intestinalis_gi198415940
 ConsensusfromContig6940Metazoa-Ciona_intestinalis_gi198417017
 ConsensusfromContig2227Metazoa-Ciona_intestinalis_gi198418315
 ConsensusfromContig7074Metazoa-Ciona_intestinalis_gi198419005
 ConsensusfromContig1655Metazoa-Ciona_intestinalis_gi198423606
 ConsensusfromContig2148Metazoa-Ciona_intestinalis_gi198423992
 ConsensusfromContig2333Metazoa-Ciona_intestinalis_gi198423992
 ConsensusfromContig2333Metazoa-Ciona_intestinalis_gi198423992
 ConsensusfromContig2750Metazoa-Ciona_intestinalis_gi198426451
 ConsensusfromContig1192Metazoa-Ciona_intestinalis_gi170049041
 ConsensusfromContig2305Metazoa-Ciona_intestinalis_gi198433100
 ConsensusfromContig2872Metazoa-Ciona_intestinalis_gi198433100
 ConsensusfromContig6332Metazoa-Ciona_intestinalis_gi198437238
 ConsensusfromContig3136Metazoa-Ciona_intestinalis_gi198437622
 ConsensusfromContig9861Metazoa-Ciona_intestinalis_gi198438122
 ConsensusfromContig2997Metazoa-Ciona_intestinalis_gi198438487
 ConsensusfromContig2095Metazoa-Ciona_intestinalis_gi74096053
 ConsensusfromContig5204Metazoa-Culex_quinquefasciatus_gi170028940
 ConsensusfromContig1192Metazoa-Culex_quinquefasciatus_gi170049041
 ConsensusfromContig5389Metazoa-Culex_quinquefasciatus_gi170050914
 ConsensusfromContig4250Metazoa-Culex_quinquefasciatus_gi170051445
 ConsensusfromContig1663Metazoa-Culex_quinquefasciatus_gi170056016
 ConsensusfromContig5285Metazoa-Culex_quinquefasciatus_gi170056240
 ConsensusfromContig1869Metazoa-Culex_quinquefasciatus_gi170061186
 ConsensusfromContig3185Metazoa-Danio_riero_gi125805421
 ConsensusfromContig3219Metazoa-Danio_riero_gi125805421
 ConsensusfromContig5481Metazoa-Danio_riero_gi125805421
 ConsensusfromContig5865Metazoa-Danio_riero_gi12583949
 ConsensusfromContig241Metazoa-Danio_riero_gi189518832
 ConsensusfromContig5452Metazoa-Danio_riero_gi189527797
 ConsensusfromContig3202Metazoa-Danio_riero_gi292610095
 ConsensusfromContig6924Metazoa-Danio_riero_gi292610537
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 ConsensusfromContig5471Metazoa-Danio_riero_gi292613347
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 ConsensusfromContig1935Metazoa-Danio_riero_gi68399910
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 ConsensusfromContig2725Metazoa-Danio_riero_gi7193467
 ConsensusfromContig4466Metazoa-Danio_riero_gi89886293
 ConsensusfromContig2557Metazoa-Daphnia_pulex_jgi187752
 ConsensusfromContig2396Metazoa-Daphnia_pulex_jgi29116
 ConsensusfromContig1178Metazoa-Daphnia_pulex_jgi310458
 ConsensusfromContig5110Metazoa-Daphnia_pulex_jgi333049
 ConsensusfromContig2030Metazoa-Daphnia_pulex_jgi40660
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 ConsensusfromContig5150Metazoa-Drosophila_ananassae_gi194753720
 ConsensusfromContig5614Metazoa-Drosophila_erecta_gi194879342
 ConsensusfromContig7238Metazoa-Drosophila_erecta_gi194879342
 ConsensusfromContig6513Metazoa-Drosophila_melanogaster_gi24665543
 ConsensusfromContig2040Metazoa-Drosophila_mojavensis_gi195108217
 ConsensusfromContig2508Metazoa-Drosophila_mojavensis_gi195116485
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 ConsensusfromContig5448Metazoa-Drosophila_sechellia_gi195357340
 ConsensusfromContig5356Metazoa-Drosophila_virilis_gi195376481
 ConsensusfromContig4469Metazoa-Drosophila_virilis_gi195378490
 ConsensusfromContig6947Metazoa-Drosophila_willistoni_gi195437510
 ConsensusfromContig2356Metazoa-Drosophila_yakuba_gi195498604
 ConsensusfromContig1972Metazoa-Equus_caballus_gi149756942
 ConsensusfromContig1978Metazoa-Equus_caballus_gi194219404
 ConsensusfromContig5953Metazoa-Gallus_gallus_gi118087963
 ConsensusfromContig2001Metazoa-Gallus_gallus_gi118096218
 ConsensusfromContig2146Metazoa-Gallus_gallus_gi118098210
 ConsensusfromContig30Metazoa-Gallus_gallus_gi118099779
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 ConsensusfromContig7048Metazoa-Gallus_gallus_gi50730955
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 ConsensusfromContig5321Metazoa-Helobdella_robusta_jgi172904
 ConsensusfromContig1947Metazoa-Helobdella_robusta_jgi188679
 ConsensusfromContig4154Metazoa-Helobdella_robusta_jgi66624
 ConsensusfromContig7146Metazoa-Helobdella_robusta_jgi74931
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 ConsensusfromContig3122Metazoa-Helobdella_robusta_jgi82032
 ConsensusfromContig7432Metazoa-Helobdella_robusta_jgi83982
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 ConsensusfromContig5204Metazoa-Homo_sapiens_gi291045294
 ConsensusfromContig4687Metazoa-Hydra_magnipapillata_gi221091156
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 ConsensusfromContig2097Metazoa-Hydra_magnipapillata_gi221105278
 2.40E-22 >XP_0868230 PREDICTED: similar to eukaryotic translation initiation factor 3, subunit 4 (delta) (predicted) isoform 5 [Canis familiaris].
 2.90E-22 >XP_538035 PREDICTED: similar to calcium channel, voltage-dependent, alpha 1F subunit [Canis familiaris].
 2.80E-19 >NP_001166492 hyaluronidase PH-20 [Cavia porcellus].
 7.40E-23 >XP_002122214 PREDICTED: similar to LOC495686 protein, partial [Ciona intestinalis].
 5.80E-11 >XP_002120127 PREDICTED: similar to notch homolog 1b [Ciona intestinalis].
 3.90E-18 >XP_002120127 PREDICTED: similar to predicted protein [Ciona intestinalis].
 4.70E-18 >XP_002122361 PREDICTED: similar to thrombospondin type 1 repeat containing protein [Ciona intestinalis].
 9.10E-19 >XP_002120274 PREDICTED: similar to WD repeat domain 52, partial [Ciona intestinalis].
 2.10E-32 >XP_002130105 PREDICTED: similar to LOC792966 protein [Ciona intestinalis].
 1.10E-12 >XP_002121556 PREDICTED: similar to dumpty CG33196-P8 [Ciona intestinalis].
 1.40E-18 >XP_002130823 PREDICTED: hemicentin-like [Ciona intestinalis].
 7.90E-19 >XP_002130823 PREDICTED: hemicentin-like [Ciona intestinalis].
 7.90E-19 >XP_002130823 PREDICTED: hemicentin-like [Ciona intestinalis].
 3.70E-11 >XP_002127605 PREDICTED: similar to Double C2-like domain-containing protein beta (Doc2-beta) [Ciona intestinalis].
 2.20E-11 >XP_002121157 PREDICTED: similar to multiplex oxidase 1 [Ciona intestinalis].
 2.90E-18 >XP_002120805 PREDICTED: similar to Cytoplasmic dynein 2 heavy chain 1 (Dynein heavy chain isotype 1B) [Ciona intestinalis].
 7.10E-18 >XP_002120805 PREDICTED: similar to Cytoplasmic dynein 2 heavy chain 1 (Dynein heavy chain isotype 1B) [Ciona intestinalis].
 2.50E-24 >XP_002124766 PREDICTED: similar to predicted protein [Ciona intestinalis].
 3.60E-59 >XP_002128501 PREDICTED: similar to SV2 related protein [Ciona intestinalis].
 7.70E-17 >XP_002124590 PREDICTED: similar to cytosolic sialic acid 9-O-acetyltransferase homolog [Ciona intestinalis].
 7.00E-34 >XP_002126221 PREDICTED: similar to Dynein heavy chain 5, axonemal (Axonemal beta dynein heavy chain 5) [Ciliary dynein heavy chain 5] [Ciona intestinalis].
 5.50E-20 >NP_001027639 cGMP phosphodiesterase delta subunit [Ciona intestinalis].
 1.40E-65 >XP_001842352 predicted hypothetical protein [Culex quinquefasciatus].
 2.90E-22 >XP_001853968 histone H3.2 [Culex quinquefasciatus].
 3.40E-12 >XP_001861526 conserved hypothetical protein [Culex quinquefasciatus].
 5.60E-14 >XP_001861766 conserved hypothetical protein [Culex quinquefasciatus].
 6.40E-43 >XP_001863841 crumbs [Culex quinquefasciatus].
 3.90E-11 >XP_001863941 conserved hypothetical protein [Culex quinquefasciatus].
 3.50E-11 >XP_001866126 disulfide isomerase [Culex quinquefasciatus].
 7.60E-16 >XP_694621 PREDICTED: LReO_3-like [Danio rerio].
 2.10E-15 >XP_694621 PREDICTED: LReO_3-like [Danio rerio].
 3.70E-19 >XP_694621 PREDICTED: LReO_3-like [Danio rerio].
 6.10E-11 >XP_688608 PREDICTED: lysosomal alpha-N-acetyl glucosaminidase-like [Danio rerio].
 4.20E-29 >XP_001919541 PREDICTED: hypothetical protein [Danio rerio].
 2.90E-28 >XP_688600 PREDICTED: LReO_3-like [Danio rerio].
 8.70E-14 >XP_001920404 PREDICTED: hypothetical protein, partial [Danio rerio].
 1.90E-33 >XP_001344452 PREDICTED: hypothetical protein [Danio rerio].
 9.80E-39 >XP_002661295 PREDICTED: LReO_3-like [Danio rerio].
 1.00E-23 >XP_002661892 PREDICTED: LReO_3-like [Danio rerio].
 5.70E-12 >XP_002662530 PREDICTED: LReO_3-like [Danio rerio].
 9.20E-15 >XP_002662599 PREDICTED: tubulin, alpha 4-like [Danio rerio].
 8.80E-16 >XP_001338510 PREDICTED: LReO_3-like [Danio rerio].
 8.80E-16 >XP_001338510 PREDICTED: LReO_3-like [Danio rerio].
 1.20E-34 >XP_002664009 PREDICTED: LReO_3-like [Danio rerio].
 2.40E-23 >XP_002665394 PREDICTED: LReO_3-like [Danio rerio].
 6.50E-14 >XP_001922111 PREDICTED: RETRansposon-like family member (retr-1)-like [Danio rerio].
 2.40E-12 >XP_695977 PREDICTED: LReO_3-like [Danio rerio].
 2.70E-20 >XP_689703 PREDICTED: reverse transcriptase/ribonuclease H/putative methyltransferase-like [Danio rerio].
 2.40E-12 >XP_002666541 PREDICTED: catalytic phosphatidylinositol 3-kinase delta-like [Danio rerio].
 3.40E-15 >XP_002666673 PREDICTED: RETRansposon-like family member (retr-1)-like [Danio rerio].
 2.20E-17 >XP_002666774 PREDICTED: dynein, axonemal, heavy chain 3-like [Danio rerio].
 5.60E-27 >NP_963872 26S proteasome non-ATPase regulatory subunit 12 [Danio rerio].
 4.20E-37 >NP_956520 ribonuclease H2 subunit A [Danio rerio].
 5.90E-51 >XP_684355 PREDICTED: polyprotein-like [Danio rerio].
 1.90E-15 >XP_684355 PREDICTED: polyprotein-like [Danio rerio].
 1.80E-11 >NP_001034899 DNA polymerase delta catalytic subunit [Danio rerio].
 4.80E-11 >NP_001034899 DNA polymerase delta catalytic subunit [Danio rerio].
 4.60E-12
 2.80E-64
 1.80E-16
 1.10E-50
 2.50E-37
 4.60E-13
 2.80E-21 >XP_001959158 GF12744 [Drosophila ananassae].
 8.00E-11 >XP_001974221 GG21615 [Drosophila erecta].
 1.20E-11 >XP_001974221 GG21615 [Drosophila erecta].
 1.30E-17 >NP_730201 CG9674, isoform B [Drosophila melanogaster].
 2.90E-17 >XP_001998689 G24108 [Drosophila mojavensis].
 4.00E-20 >XP_002002785 G117572 [Drosophila mojavensis].
 1.90E-17 >XP_002044200 GM22522 [Drosophila sechellia].
 1.90E-17 >XP_002044200 GM22522 [Drosophila sechellia].
 1.50E-25 >XP_002045008 GM24035 [Drosophila sechellia].
 7.90E-15 >XP_002047025 G121156 [Drosophila virilis].
 1.60E-27 >XP_002048017 G113737 [Drosophila virilis].
 1.70E-97 >XP_002066683 GK24436 [Drosophila willistoni].
 6.20E-30 >XP_002096594 GE25752 [Drosophila yakuba].
 3.90E-49 >XP_001488967 PREDICTED: Wolf-Hirschhorn syndrome candidate 1 [Equus caballus].
 2.60E-54 >XP_001915343 PREDICTED: similar to calcium channel, voltage-dependent, 1 type, alpha 1H subunit [Equus caballus].
 2.80E-17 >XP_00123438 PREDICTED: similar to myofibrin protein R4M6 [Gallus gallus].
 0 >XP_001232348 PREDICTED: splicing factor 3b, subunit 3, 130kDa [Gallus gallus].
 9.90E-11 >XP_424526 PREDICTED: hypothetical protein [Gallus gallus].
 7.40E-19 >XP_425382 PREDICTED: similar to arylsulphatase G [Gallus gallus].
 4.60E-12 >NP_990406 ubiquitin-60S ribosomal protein L40 [Gallus gallus].
 1.10E-47 >XP_417097 PREDICTED: hypothetical protein [Gallus gallus].
 5.10E-18
 7.70E-22
 2.40E-13
 3.50E-18
 1.20E-20
 8.10E-18
 2.30E-33
 3.40E-17
 2.80E-17
 2.20E-13
 9.30E-34 >NP_001122307 trafficking protein particle complex subunit 2 isoform 2 [Homo sapiens].
 7.00E-14 >XP_002170041 PREDICTED: similar to Y26D4A.9, partial [Hydra magnipapillata].
 2.10E-122 >XP_002169170 PREDICTED: similar to predicted protein [Hydra magnipapillata].
 4.60E-12 >XP_002169660 PREDICTED: similar to predicted protein [Hydra magnipapillata].
 5.10E-24 >XP_002170695 PREDICTED: similar to predicted protein [Hydra magnipapillata].
 9.40E-16 >XP_002169253 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
 1.10E-58 >XP_002163140 PREDICTED: similar to predicted protein [Hydra magnipapillata].

ConsensusfromContig5997Metazoa-Hydra_magnipapillata_gi221105471
ConsensusfromContig1935Metazoa-Hydra_magnipapillata_gi221106115
ConsensusfromContig2121Metazoa-Hydra_magnipapillata_gi221106115
ConsensusfromContig2064Metazoa-Hydra_magnipapillata_gi221107582
ConsensusfromContig4227Metazoa-Hydra_magnipapillata_gi221107774
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ConsensusfromContig6935Metazoa-Macaca_mulatta_gi109088110
ConsensusfromContig6218Metazoa-Macaca_mulatta_gi297260195
ConsensusfromContig2452Metazoa-Macaca_mulatta_gi29726255
ConsensusfromContig6668Metazoa-Macaca_mulatta_gi29726277
ConsensusfromContig5329Metazoa-Macaca_mulatta_gi29726989
ConsensusfromContig7108Metazoa-Macaca_mulatta_gi297281240
1.10E-12 >XP_002168097 PREDICTED: similar to predicted protein [Hydra magnipapillata].
4.0E-167 >XP_002169350 PREDICTED: similar to Y26D4A.9 [Hydra magnipapillata].
6.40E-81 >XP_002169350 PREDICTED: similar to Y26D4A.9 [Hydra magnipapillata].
9.10E-14 >XP_002160398 PREDICTED: similar to F59H6.5, partial [Hydra magnipapillata].
2.30E-16 >XP_002167750 PREDICTED: similar to predicted protein [Hydra magnipapillata].
3.10E-10 >XP_002161804 PREDICTED: similar to predicted protein [Hydra magnipapillata].
1.10E-25 >XP_002169683 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
2.60E-20 >XP_002169683 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
1.30E-20 >XP_002169683 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
3.00E-43 >XP_002169683 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
7.00E-27 >XP_002169683 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
1.00E-14 >XP_002169683 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
2.60E-35 >XP_002169683 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
3.00E-56 >XP_002168688 PREDICTED: similar to C3E10.6 [Hydra magnipapillata].
7.00E-20 >XP_002167680 PREDICTED: similar to predicted protein [Hydra magnipapillata].
7.20E-11 >XP_002168130 PREDICTED: similar to predicted protein [Hydra magnipapillata].
3.20E-24 >XP_002161586 PREDICTED: similar to predicted protein [Hydra magnipapillata].
6.10E-30 >XP_002157149 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
6.60E-18 >XP_002157705 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
6.80E-15 >XP_002158142 PREDICTED: similar to Y26D4A.9 [Hydra magnipapillata].
8.70E-39 >XP_002155697 PREDICTED: similar to predicted protein, partial [Hydra magnipapillata].
1.10E-22 >XP_002154080 PREDICTED: similar to predicted protein [Hydra magnipapillata].
5.00E-12 >XP_002161712 PREDICTED: similar to predicted protein [Hydra magnipapillata].
2.80E-13 >XP_002158979 PREDICTED: similar to predicted protein [Hydra magnipapillata].
3.20E-11 >XP_002158979 PREDICTED: similar to predicted protein [Hydra magnipapillata].
3.10E-18 >XP_002167505 PREDICTED: similar to predicted protein [Hydra magnipapillata].
3.20E-36 >XP_002159034 PREDICTED: similar to predicted protein [Hydra magnipapillata].
1.90E-16 >XP_002166860 PREDICTED: similar to eukaryotic translation initiation factor 4, gamma 1, partial [Hydra magnipapillata].
7.10E-13 >XP_002160828 PREDICTED: similar to Peptidyl-glycine alpha-amidating monooxygenase B [Hydra magnipapillata].
7.60E-17
1.40E-11
4.90E-29
6.20E-12
1.90E-19
2.40E-20
2.10E-14
6.80E-56
4.80E-30
2.40E-20
1.40E-12
1.90E-18
1.40E-12
5.00E-26
7.80E-16
5.60E-15
3.50E-22
4.60E-19
4.20E-13
6.00E-72 >XP_002408179 conserved hypothetical protein [Ixodes scapularis].
4.70E-46 >XP_002404924 beta-transducin, putative [Ixodes scapularis].
1.20E-15 >XP_002410669 conserved hypothetical protein [Ixodes scapularis].
9.10E-13 >XP_002410669 conserved hypothetical protein [Ixodes scapularis].
2.50E-15 >XP_002401506 voltage-gated calcium channel, putative [Ixodes scapularis].
8.00E-32 >XP_002414810 conserved hypothetical protein [Ixodes scapularis].
1.30E-20 >XP_002433507 conserved hypothetical protein [Ixodes scapularis].
4.30E-42 >XP_002399627 protein farnesyltransferase beta subunit, putative [Ixodes scapularis].
7.40E-22
1.20E-26
1.80E-12
2.80E-29
5.30E-15
4.10E-40
1.40E-35
5.60E-23
3.00E-30
3.90E-19
3.90E-19
1.30E-13
8.00E-15
1.90E-65
8.90E-173
1.70E-11
1.30E-11
4.00E-13
1.50E-33
1.70E-31
5.10E-13
2.00E-31
2.90E-12
7.60E-13
7.90E-26
5.20E-14
5.20E-14
9.50E-11
7.00E-21
7.70E-14
3.50E-26
1.00E-12
8.80E-13
1.30E-12
5.50E-14
9.10E-15
4.60E-26
4.60E-19
9.40E-18 >XP_001104766 PREDICTED: calmodulin-like 5 [Macaca mulatta].
6.90E-19 >XP_001111152 PREDICTED: uncharacterized protein C20orf194-like [Macaca mulatta].
2.80E-12 >XP_001104802 PREDICTED: ADP-ribosylation factor 3-like isoform 3 [Macaca mulatta].
5.40E-13 >XP_002799508 PREDICTED: zinc finger protein 91-like [Macaca mulatta].
2.70E-18 >XP_002799976 PREDICTED: hypothetical protein LOC100426959, partial [Macaca mulatta].
4.80E-17 >XP_002808305 PREDICTED: LOW QUALITY PROTEIN: hemicentin-1-like [Macaca mulatta].

ConsensusfromContig3361Metazoa-Macaca_mulatta_gi297298311 2.20E-12 >XP_002805170 PREDICTED: putative uncharacterized protein C8orf49-like [Macaca mulatta].
ConsensusfromContig2095Metazoa-Monodelphis_domestica_gi126282424 3.00E-12 >XP_0137270 PREDICTED: similar to galactosylceramidase [Monodelphis domestica].
ConsensusfromContig5718Metazoa-Monodelphis_domestica_gi126290345 2.50E-26 >XP_001368072 PREDICTED: similar to rabkinesin6 [Monodelphis domestica].
ConsensusfromContig5261Metazoa-Monodelphis_domestica_gi126294274 3.20E-34 >XP_001371438 PREDICTED: similar to crumbs homolog 2 (Drosophila), [Monodelphis domestica].
ConsensusfromContig1522Metazoa-Monodelphis_domestica_gi126310040 3.40E-16 >XP_001364391 PREDICTED: similar to Cullin-7 (CUL-7) [Monodelphis domestica].
ConsensusfromContig5196Metazoa-Monodelphis_domestica_gi126310054 6.70E-12 >XP_001371438 PREDICTED: similar to poly(ADP-ribose) polymerase 1 subunit h1PA39 [Monodelphis domestica].
ConsensusfromContig3080Metazoa-Monodelphis_domestica_gi126330778 9.50E-14 >XP_001373365 PREDICTED: similar to malignant fibrous histiocytoma amplified sequence 1 [Monodelphis domestica].
ConsensusfromContig2078Metazoa-Monodelphis_domestica_gi126335115 5.20E-44 >XP_001365236 PREDICTED: similar to asparagine-linked glycosylation 2 homolog (S. cerevisiae, alpha-1,3-mannosyltransferase) [Monodelphis domestica].
ConsensusfromContig2078Metazoa-Monodelphis_domestica_gi126335115 5.20E-44 >XP_001365236 PREDICTED: similar to asparagine-linked glycosylation 2 homolog (S. cerevisiae, alpha-1,3-mannosyltransferase) [Monodelphis domestica].
ConsensusfromContig5139Metazoa-Mus_musculus_gi12656171 1.30E-43 >XP_0033842 arylsulfatase B precursor [Mus musculus].
ConsensusfromContig4095Metazoa-Mus_musculus_gi113378924 5.50E-22 >XP_0038491 alpha-galactosidase A [Mus musculus].
ConsensusfromContig2147Metazoa-Mus_musculus_gi149275105 2.80E-17 >XP_001003060 PREDICTED: hypothetical protein [Mus musculus].
ConsensusfromContig9800Metazoa-Mus_musculus_gi154350232 1.90E-12 >NP_573502 crumbs homolog 1 precursor [Mus musculus].
ConsensusfromContig6930Metazoa-Mus_musculus_gi164698956 1.40E-116 >NP_033216 vacuolar protein sorting-associated protein 4B [Mus musculus].
ConsensusfromContig5164Metazoa-Mus_musculus_gi282154801 5.10E-50 >NP_064429 NFI1 iron-sulfur cluster scaffold homolog, mitochondrial isoform 2 precursor [Mus musculus].
ConsensusfromContig6968Metazoa-Mus_musculus_gi3198096 1.40E-32 >NP_062519 WW domain-containing oxidoreductase [Mus musculus].
ConsensusfromContig4377Metazoa-Mus_musculus_gi6680868 2.40E-11 >NP_031657 G1/S-specific cyclin-D1 [Mus musculus].
ConsensusfromContig1938Metazoa-Mus_musculus_gi7106425 1.50E-35 >NP_035622 serine/threonine-protein kinase 11 [Mus musculus].
ConsensusfromContig2274Metazoa-Nasonia_vitripennis_gi156539003 4.60E-19 >XP_001602819 PREDICTED: hypothetical protein, partial [Nasonia vitripennis].
ConsensusfromContig3953Metazoa-Nasonia_vitripennis_gi156539683 1.60E-15 >XP_001600228 PREDICTED: hypothetical protein, partial [Nasonia vitripennis].
ConsensusfromContig2392Metazoa-Nasonia_vitripennis_gi156539693 3.20E-32 >XP_001602154 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig2126Metazoa-Nasonia_vitripennis_gi156539705 1.90E-12 >XP_001602768 PREDICTED: similar to retrotransposon protein, putative, Ty3-gypsy subclass [Nasonia vitripennis].
ConsensusfromContig5154Metazoa-Nasonia_vitripennis_gi156540037 1.20E-19 >XP_001599370 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig3436Metazoa-Nasonia_vitripennis_gi156540207 2.70E-12 >XP_001602640 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig3891Metazoa-Nasonia_vitripennis_gi156540207 2.70E-12 >XP_001602640 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig4064Metazoa-Nasonia_vitripennis_gi156540439 3.20E-14 >XP_001601554 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig6920Metazoa-Nasonia_vitripennis_gi156540439 2.60E-12 >XP_001601554 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig2310Metazoa-Nasonia_vitripennis_gi156540764 4.40E-28 >XP_001599249 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig2677Metazoa-Nasonia_vitripennis_gi156540764 8.40E-33 >XP_001599249 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig3025Metazoa-Nasonia_vitripennis_gi156540764 5.00E-14 >XP_001599249 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig3487Metazoa-Nasonia_vitripennis_gi156540764 6.90E-18 >XP_001599249 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig4992Metazoa-Nasonia_vitripennis_gi156540764 2.20E-11 >XP_001599249 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig4992Metazoa-Nasonia_vitripennis_gi156540764 2.20E-11 >XP_001599249 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig6994Metazoa-Nasonia_vitripennis_gi156540764 6.30E-24 >XP_001599249 PREDICTED: similar to Peptidase, cysteine peptidase active site; Zinc finger, CCHC-type; Peptidase aspartic, catalytic; Polynucleotidyl transferase, Ribonuclease H fold [Nasonia vitripennis].
ConsensusfromContig5596Metazoa-Nasonia_vitripennis_gi156541164 9.90E-13 >XP_001603663 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig3265Metazoa-Nasonia_vitripennis_gi156541471 1.70E-11 >XP_001599618 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig5874Metazoa-Nasonia_vitripennis_gi156541471 1.80E-27 >XP_001599618 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig3657Metazoa-Nasonia_vitripennis_gi156541506 5.80E-16 >XP_001599249 PREDICTED: similar to pol polyprotein [Nasonia vitripennis].
ConsensusfromContig6352Metazoa-Nasonia_vitripennis_gi156541748 1.40E-15 >XP_001602742 PREDICTED: hypothetical protein [Nasonia vitripennis].
ConsensusfromContig1582Metazoa-Nasonia_vitripennis_gi156541819 3.80E-19 >XP_001600338 PREDICTED: similar to beta-hexosaminidase B [Nasonia vitripennis].
ConsensusfromContig5162Metazoa-Nasonia_vitripennis_gi156546928 4.20E-15 >XP_001603288 PREDICTED: similar to phosphatidylethanolamine-binding protein isoform 3 [Nasonia vitripennis].
ConsensusfromContig1147Metazoa-Nasonia_vitripennis_gi156548518 4.60E-19 >XP_001606139 PREDICTED: similar to serine/threonine-protein kinase riol1 (rio kinase 1) [Nasonia vitripennis].
ConsensusfromContig7135Metazoa-Nasonia_vitripennis_gi156552401 8.20E-14 >XP_001681671 PREDICTED: similar to CG15094-PA [Nasonia vitripennis].
ConsensusfromContig1989Metazoa-Nematostella_vectensis_gi15632155 9.60E-47 >XP_001618299 hypothetical protein NEMVEDRAFT_v1g225297 [Nematostella vectensis].
ConsensusfromContig7027Metazoa-Nematostella_vectensis_gi156331255 4.10E-12 >XP_001619177 hypothetical protein NEMVEDRAFT_v1g152156 [Nematostella vectensis].
ConsensusfromContig6906Metazoa-Nematostella_vectensis_gi156331289 7.00E-11 >XP_001619186 hypothetical protein NEMVEDRAFT_v1g224413 [Nematostella vectensis].
ConsensusfromContig4347Metazoa-Nematostella_vectensis_gi156348360 2.00E-22 >XP_001621820 hypothetical protein NEMVEDRAFT_v1g1988 [Nematostella vectensis].
ConsensusfromContig1938Metazoa-Nematostella_vectensis_gi156349180 1.30E-20 >XP_001621950 hypothetical protein NEMVEDRAFT_v1g143091 [Nematostella vectensis].
ConsensusfromContig2515Metazoa-Nematostella_vectensis_gi156351201 8.90E-22 >XP_001622405 hypothetical protein NEMVEDRAFT_v1g141385 [Nematostella vectensis].
ConsensusfromContig5139Metazoa-Nematostella_vectensis_gi156352985 1.00E-75 >XP_001622861 predicted protein [Nematostella vectensis].
ConsensusfromContig4319Metazoa-Nematostella_vectensis_gi156354102 3.70E-12 >XP_001623241 predicted protein [Nematostella vectensis].
ConsensusfromContig3172Metazoa-Nematostella_vectensis_gi156356009 6.30E-27 >XP_001623724 predicted protein [Nematostella vectensis].
ConsensusfromContig3322Metazoa-Nematostella_vectensis_gi156359506 8.40E-31 >XP_001624809 predicted protein [Nematostella vectensis].
ConsensusfromContig6957Metazoa-Nematostella_vectensis_gi156359983 9.80E-15 >XP_001625042 predicted protein [Nematostella vectensis].
ConsensusfromContig7097Metazoa-Nematostella_vectensis_gi156360668 2.60E-31 >XP_001625148 predicted protein [Nematostella vectensis].
ConsensusfromContig6619Metazoa-Nematostella_vectensis_gi156363477 5.40E-22 >XP_001626260 predicted protein [Nematostella vectensis].
ConsensusfromContig5313Metazoa-Nematostella_vectensis_gi156365616 2.70E-28 >XP_001626740 predicted protein [Nematostella vectensis].
ConsensusfromContig2952Metazoa-Nematostella_vectensis_gi156365935 6.80E-12 >XP_001626897 predicted protein [Nematostella vectensis].
ConsensusfromContig1734Metazoa-Nematostella_vectensis_gi156368443 1.10E-20 >XP_001627703 predicted protein [Nematostella vectensis].
ConsensusfromContig2238Metazoa-Nematostella_vectensis_gi156371714 2.30E-50 >XP_001628907 predicted protein [Nematostella vectensis].
ConsensusfromContig6619Metazoa-Nematostella_vectensis_gi156373810 5.30E-17 >XP_001629593 predicted protein [Nematostella vectensis].
ConsensusfromContig1953Metazoa-Nematostella_vectensis_gi156376779 5.80E-74 >XP_001630536 predicted protein [Nematostella vectensis].
ConsensusfromContig6233Metazoa-Nematostella_vectensis_gi156378552 1.30E-11 >XP_001631206 predicted protein [Nematostella vectensis].
ConsensusfromContig2456Metazoa-Nematostella_vectensis_gi156379266 5.00E-13 >XP_001631379 predicted protein [Nematostella vectensis].
ConsensusfromContig3164Metazoa-Nematostella_vectensis_gi156379266 2.70E-21 >XP_001631379 predicted protein [Nematostella vectensis].
ConsensusfromContig5465Metazoa-Nematostella_vectensis_gi156379266 9.20E-14 >XP_001631379 predicted protein [Nematostella vectensis].
ConsensusfromContig7058Metazoa-Nematostella_vectensis_gi156379266 2.50E-12 >XP_001631379 predicted protein [Nematostella vectensis].
ConsensusfromContig5419Metazoa-Nematostella_vectensis_gi156379313 1.60E-20 >XP_001631402 predicted protein [Nematostella vectensis].
ConsensusfromContig6939Metazoa-Nematostella_vectensis_gi156379682 4.30E-30 >XP_001631585 predicted protein [Nematostella vectensis].
ConsensusfromContig5543Metazoa-Nematostella_vectensis_gi156380006 2.00E-11 >XP_001631746 predicted protein [Nematostella vectensis].
ConsensusfromContig5449Metazoa-Nematostella_vectensis_gi156380437 5.20E-14 >XP_001631775 predicted protein [Nematostella vectensis].
ConsensusfromContig3770Metazoa-Nematostella_vectensis_gi156380489 7.10E-14 >XP_001631801 predicted protein [Nematostella vectensis].
ConsensusfromContig3326Metazoa-Nematostella_vectensis_gi156383694 6.60E-19 >XP_001632968 predicted protein [Nematostella vectensis].
ConsensusfromContig3382Metazoa-Nematostella_vectensis_gi156383694 5.30E-17 >XP_001632968 predicted protein [Nematostella vectensis].
ConsensusfromContig1287Metazoa-Nematostella_vectensis_gi156383902 9.00E-32 >XP_001633071 predicted protein [Nematostella vectensis].
ConsensusfromContig2040Metazoa-Nematostella_vectensis_gi156383902 8.20E-23 >XP_001633071 predicted protein [Nematostella vectensis].
ConsensusfromContig6381Metazoa-Nematostella_vectensis_gi156383902 3.30E-16 >XP_001633071 predicted protein [Nematostella vectensis].
ConsensusfromContig6381Metazoa-Nematostella_vectensis_gi156383902 3.30E-16 >XP_001633071 predicted protein [Nematostella vectensis].
ConsensusfromContig3277Metazoa-Nematostella_vectensis_gi156383902 1.30E-11 >XP_001633403 predicted protein [Nematostella vectensis].
ConsensusfromContig5221Metazoa-Nematostella_vectensis_gi156384966 4.10E-34 >XP_001633403 predicted protein [Nematostella vectensis].
ConsensusfromContig2317Metazoa-Nematostella_vectensis_gi156385286 3.80E-18 >XP_001633562 predicted protein [Nematostella vectensis].
ConsensusfromContig5330Metazoa-Nematostella_vectensis_gi156385301 2.10E-79 >XP_001633569 predicted protein [Nematostella vectensis].
ConsensusfromContig5465Metazoa-Nematostella_vectensis_gi156385478 6.40E-15 >XP_001633657 predicted protein [Nematostella vectensis].
ConsensusfromContig1937Metazoa-Nematostella_vectensis_gi156385510 4.00E-151 >XP_001633673 predicted protein [Nematostella vectensis].
ConsensusfromContig5198Metazoa-Nematostella_vectensis_gi156386220 3.30E-13 >XP_001633811 predicted protein [Nematostella vectensis].
ConsensusfromContig2429Metazoa-Nematostella_vectensis_gi156387693 1.60E-37 >XP_001634337 predicted protein [Nematostella vectensis].
ConsensusfromContig5217Metazoa-Nematostella_vectensis_gi156387910 7.60E-11 >XP_001634445 predicted protein [Nematostella vectensis].
ConsensusfromContig5217Metazoa-Nematostella_vectensis_gi156387910 7.60E-11 >XP_001634445 predicted protein [Nematostella vectensis].
ConsensusfromContig5417Metazoa-Nematostella_vectensis_gi156388853 2.20E-15 >XP_001634707 predicted protein [Nematostella vectensis].
ConsensusfromContig3012Metazoa-Nematostella_vectensis_gi156389623 2.70E-13 >XP_001635090 predicted protein [Nematostella vectensis].
ConsensusfromContig2946Metazoa-Nematostella_vectensis_gi156392674 3.50E-18 >XP_001636173 predicted protein [Nematostella vectensis].
ConsensusfromContig5439Metazoa-Nematostella_vectensis_gi156392674 5.70E-41 >XP_001636173 predicted protein [Nematostella vectensis].
ConsensusfromContig7091Metazoa-Nematostella_vectensis_gi156394133 2.00E-42 >XP_001636681 predicted protein [Nematostella vectensis].
ConsensusfromContig1713Metazoa-Nematostella_vectensis_gi156395260 2.90E-41 >XP_001637029 predicted protein [Nematostella vectensis].
ConsensusfromContig2013Metazoa-Nematostella_vectensis_gi156395388 8.90E-17 >XP_001637093 predicted protein [Nematostella vectensis].
ConsensusfromContig1409Metazoa-Nematostella_vectensis_gi156398190 6.40E-20 >XP_001638072 predicted protein [Nematostella vectensis].
ConsensusfromContig3131Metazoa-Nematostella_vectensis_gi156398391 3.30E-194 >XP_001638172 predicted protein [Nematostella vectensis].
ConsensusfromContig3131Metazoa-Nematostella_vectensis_gi156398391 3.30E-194 >XP_001638172 predicted protein [Nematostella vectensis].
ConsensusfromContig3147Metazoa-Nematostella_vectensis_gi156398391 1.90E-157 >XP_001638172 predicted protein [Nematostella vectensis].
ConsensusfromContig3256Metazoa-Nematostella_vectensis_gi156398391 5.00E-205 >XP_001638172 predicted protein [Nematostella vectensis].
ConsensusfromContig3256Metazoa-Nematostella_vectensis_gi156398391 8.90E-115 >XP_001638172 predicted protein [Nematostella vectensis].

ConsensusfromContig4315Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig4584Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig5103Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig5108Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig5111Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig5211Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig5442Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig5615Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig5840Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig5959Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig6236Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig6480Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig6762Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig6929Metazoa-Nematostella_vectensis_gi156398391
ConsensusfromContig7072Metazoa-Nematostella_vectensis_gi156399451
ConsensusfromContig7262Metazoa-Nematostella_vectensis_gi156399451
ConsensusfromContig7329Metazoa-Nematostella_vectensis_gi156399451
ConsensusfromContig7357Metazoa-Nematostella_vectensis_gi156399451
ConsensusfromContig7389Metazoa-Nematostella_vectensis_gi156399451
ConsensusfromContig7444Metazoa-Nematostella_vectensis_gi156399451
ConsensusfromContig75195Metazoa-Nematostella_vectensis_gi156399451
ConsensusfromContig75498Metazoa-Nematostella_vectensis_gi156399451
ConsensusfromContig75865Metazoa-Nematostella_vectensis_gi156399451
ConsensusfromContig75916Metazoa-Nematostella_vectensis_gi156399451
ConsensusfromContig72300Metazoa-Nematostella_vectensis_gi156399690
ConsensusfromContig72025Metazoa-Nematostella_vectensis_gi156399861
ConsensusfromContig3139Metazoa-Nematostella_vectensis_gi156400904
ConsensusfromContig3138Metazoa-Nematostella_vectensis_gi156402578
ConsensusfromContig5816Metazoa-Nematostella_vectensis_gi156402848
ConsensusfromContig6930Metazoa-Nematostella_vectensis_gi156403861
ConsensusfromContig3137Metazoa-Nematostella_vectensis_gi156405862
ConsensusfromContig2053Metazoa-Nematostella_vectensis_gi156406717
ConsensusfromContig3122Metazoa-Nematostella_vectensis_gi156406717
ConsensusfromContig5289Metazoa-Nematostella_vectensis_gi156406717
ConsensusfromContig2772Metazoa-Ornithorhynchus_anatinus_gi149410532
ConsensusfromContig4934Metazoa-Ornithorhynchus_anatinus_gi149572340
ConsensusfromContig2048Metazoa-Ornithorhynchus_anatinus_gi149588168
ConsensusfromContig517Metazoa-Ornithorhynchus_anatinus_gi149611552
ConsensusfromContig2323Metazoa-Ornithorhynchus_anatinus_gi149640752
ConsensusfromContig6924Metazoa-Oryctolagus_cuniculus_gi291384075
ConsensusfromContig7090Metazoa-Oryctolagus_cuniculus_gi291389906
ConsensusfromContig2051Metazoa-Oryctolagus_cuniculus_gi291401149
ConsensusfromContig3400Metazoa-Oryctolagus_cuniculus_gi291412335
ConsensusfromContig2110Metazoa-Oryctolagus_cuniculus_gi291414029
ConsensusfromContig2769Metazoa-Oryzias_latipes_gi238054054
ConsensusfromContig5404Metazoa-Pan_troglodytes_gi114600137
ConsensusfromContig2436Metazoa-Pan_troglodytes_gi114662366
ConsensusfromContig2320Metazoa-Pan_troglodytes_gi114681829
ConsensusfromContig6734Metazoa-Papio_anubis_gi281183376
ConsensusfromContig5135Metazoa-Pediculus_humanus_corporis_gi242011892
ConsensusfromContig1061Metazoa-Pediculus_humanus_corporis_gi242014808
ConsensusfromContig3138Metazoa-Pediculus_humanus_corporis_gi242022148
ConsensusfromContig5175Metazoa-Pongo_abelii_gi297668160
ConsensusfromContig4571Metazoa-Pongo_abelii_gi2976681028
ConsensusfromContig5893Metazoa-Pongo_abelii_gi2977101890
ConsensusfromContig238Metazoa-Pongo_abelii_gi297715157
ConsensusfromContig7262Metazoa-Pongo_abelii_gi297715167
ConsensusfromContig5175Metazoa-Rattus_norvegicus_gi109462094
ConsensusfromContig2176Metazoa-Rattus_norvegicus_gi189181728
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ConsensusfromContig623Metazoa-Rattus_norvegicus_gi293341005
ConsensusfromContig3246Metazoa-Rattus_norvegicus_gi293345664
ConsensusfromContig1703Metazoa-Rattus_norvegicus_gi293351131
ConsensusfromContig1810Metazoa-Saccoglossus_kowalevskii_gi291222171
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ConsensusfromContig7162Metazoa-Saccoglossus_kowalevskii_gi291238094
ConsensusfromContig3130Metazoa-Saccoglossus_kowalevskii_gi291239314
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1.50E-26 >XP_001638172 predicted protein [Nematostella vectensis].
1.10E-14 >XP_001638172 predicted protein [Nematostella vectensis].
1.50E-226 >XP_001638172 predicted protein [Nematostella vectensis].
2.30E-220 >XP_001638172 predicted protein [Nematostella vectensis].
3.00E-243 >XP_001638172 predicted protein [Nematostella vectensis].
1.30E-220 >XP_001638172 predicted protein [Nematostella vectensis].
4.80E-101 >XP_001638172 predicted protein [Nematostella vectensis].
3.70E-22 >XP_001638172 predicted protein [Nematostella vectensis].
4.00E-41 >XP_001638172 predicted protein [Nematostella vectensis].
4.80E-14 >XP_001638172 predicted protein [Nematostella vectensis].
1.40E-11 >XP_001638172 predicted protein [Nematostella vectensis].
2.30E-11 >XP_001638172 predicted protein [Nematostella vectensis].
3.90E-17 >XP_001638172 predicted protein [Nematostella vectensis].
3.20E-158 >XP_001638172 predicted protein [Nematostella vectensis].
7.70E-12 >XP_001638158 predicted protein [Nematostella vectensis].
1.10E-11 >XP_001638155 predicted protein [Nematostella vectensis].
2.20E-11 >XP_001638155 predicted protein [Nematostella vectensis].
7.10E-13 >XP_001638155 predicted protein [Nematostella vectensis].
1.60E-14 >XP_001638155 predicted protein [Nematostella vectensis].
1.40E-11 >XP_001638155 predicted protein [Nematostella vectensis].
2.00E-13 >XP_001638155 predicted protein [Nematostella vectensis].
2.40E-20 >XP_001638155 predicted protein [Nematostella vectensis].
1.50E-33 >XP_001638155 predicted protein [Nematostella vectensis].
9.10E-16 >XP_001638155 predicted protein [Nematostella vectensis].
3.60E-26 >XP_001638634 predicted protein [Nematostella vectensis].
1.30E-74 >XP_001638719 predicted protein [Nematostella vectensis].
1.00E-41 >XP_001639032 predicted protein [Nematostella vectensis].
6.30E-19 >XP_001639667 predicted protein [Nematostella vectensis].
9.80E-15 >XP_001639802 predicted protein [Nematostella vectensis].
1.20E-21 >XP_001640126 predicted protein [Nematostella vectensis].
6.00E-15 >XP_001640950 predicted protein [Nematostella vectensis].
2.20E-22 >XP_001641191 predicted protein [Nematostella vectensis].
5.60E-41 >XP_001641191 predicted protein [Nematostella vectensis].
2.90E-12 >XP_001641191 predicted protein [Nematostella vectensis].
1.10E-13 >XP_001505256 PREDICTED: similar to 5, 10-methylenetetrahydrofolate synthetase [Ornithorhynchus anatinus].
1.10E-12 >XP_001515777 PREDICTED: similar to cytoplasmic dynein heavy chain 2, partial [Ornithorhynchus anatinus].
3.10E-11 >XP_001507616 PREDICTED: similar to DRAK1 [Ornithorhynchus anatinus].
2.70E-92 >XP_001521337 PREDICTED: similar to SMARCA4, partial [Ornithorhynchus anatinus].
5.80E-23 >XP_001507899 PREDICTED: hypothetical protein [Ornithorhynchus anatinus].
1.60E-21 >XP_002708680 PREDICTED: Ester hydrolase C11orf54-like isoform 1 [Oryctolagus cuniculus].
1.50E-25 >XP_002711457 PREDICTED: FAD-dependent oxidoreductase domain containing 2 [Oryctolagus cuniculus].
1.20E-24 >XP_002716962 PREDICTED: transmembrane protein 184C [Oryctolagus cuniculus].
3.60E-21 >XP_001723440 PREDICTED: protein disulfide isomerase A6 [Oryctolagus cuniculus].
1.90E-24 >XP_002723268 PREDICTED: solute carrier family 25, member 29-like [Oryctolagus cuniculus].
2.00E-34 >NP_001153904 cell division cycle 20 [Oryzias latipes].
2.60E-48 >XP_S17751 PREDICTED: cAMP-specific phosphodiesterase 4D isoform 9 [Pan troglodytes].
2.70E-92 >XP_001521337 PREDICTED: ATP-binding cassette protein C12 isoform 3 [Pan troglodytes].
1.80E-14 >XP_001137585 PREDICTED: hypothetical protein LOC735483 isoform 3 [Pan troglodytes].
2.50E-14 >NP_001162315 LRRGT00196 [Papio anubis].
4.10E-26 >XP_002426677 conserved hypothetical protein [Pediculus humanus corporis].
1.20E-24 >XP_002428073 sodium/potassium-transporting ATPase alpha-1 chain, putative [Pediculus humanus corporis].
3.60E-21 >XP_002431503 enzymatic protein: Ectonucleoside diphosphate kinase: Reverse transcriptase, putative [Pediculus humanus corporis].
4.40E-17 >XP_002812323 PREDICTED: hypothetical protein LOC100455595 [Pongo abelii].
1.30E-31 >XP_002818285 PREDICTED: putative uncharacterized protein CXorf62-like [Pongo abelii].
8.50E-15 >XP_002827939 PREDICTED: hypothetical protein LOC100447275 [Pongo abelii].
3.10E-11 >XP_002833962 PREDICTED: hypothetical protein LOC100433421, partial [Pongo abelii].
1.00E-12 >XP_002833962 PREDICTED: hypothetical protein LOC100433421, partial [Pongo abelii].
1.70E-23 >XP_001058176 PREDICTED: OTU domain containing 7-like [Rattus norvegicus].
2.30E-16 >NP_001032739 nephrocystin-4 [Rattus norvegicus].
2.30E-16 >NP_001032739 nephrocystin-4 [Rattus norvegicus].
7.30E-11 >XP_002724830 PREDICTED: predicted protein-like [Rattus norvegicus].
5.60E-18 >XP_002742492 PREDICTED: hypothetical protein LOC100360267 [Rattus norvegicus].
2.70E-28 >XP_001056402 PREDICTED: cyclin-dependent kinase 11B-like [Rattus norvegicus].
2.40E-11 >XP_002731091 PREDICTED: hypothetical protein, partial [Saccoglossus kowalevskii].
2.30E-12 >XP_002731275 PREDICTED: cyclic nucleotide gated channel beta 1-like [Saccoglossus kowalevskii].
2.90E-11 >XP_002731355 PREDICTED: CDW92 antigen-like [Saccoglossus kowalevskii].
5.80E-18 >XP_002731491 PREDICTED: expressed hypothetical protein-like [Saccoglossus kowalevskii].
5.80E-11 >XP_002732858 PREDICTED: SPRY domain containing 3-like [Saccoglossus kowalevskii].
2.20E-36 >XP_002732866 PREDICTED: CG12263-like [Saccoglossus kowalevskii].
3.60E-21 >XP_002734909 PREDICTED: hypothetical protein [Saccoglossus kowalevskii].
1.20E-11 >XP_002733106 PREDICTED: vacuolar proton ATPase, putative-like, partial [Saccoglossus kowalevskii].
1.50E-13 >XP_002733351 PREDICTED: hypothetical protein [Saccoglossus kowalevskii].
2.20E-29 >XP_002734149 PREDICTED: RecQ protein-like (DNA helicase Q1-like)-like [Saccoglossus kowalevskii].
1.40E-11 >XP_002734760 PREDICTED: CG15270-like [Saccoglossus kowalevskii].
1.40E-11 >XP_002734760 PREDICTED: CG15270-like [Saccoglossus kowalevskii].
3.10E-12 >XP_002734791 PREDICTED: iduronate-2-sulfatase-like [Saccoglossus kowalevskii].
2.10E-28 >XP_002734791 PREDICTED: iduronate-2-sulfatase-like [Saccoglossus kowalevskii].
3.10E-14 >XP_002734916 PREDICTED: jumonji domain containing 6-like [Saccoglossus kowalevskii].
1.10E-22 >XP_002734909 PREDICTED: hypothetical protein [Saccoglossus kowalevskii].
3.20E-16 >XP_002735012 PREDICTED: CG4525-like [Saccoglossus kowalevskii].
3.50E-18 >XP_002735128 PREDICTED: hypothetical protein [Saccoglossus kowalevskii].
2.00E-17 >XP_002735556 PREDICTED: galactosamine (N-acetyl)-6-sulfate sulfatase-like [Saccoglossus kowalevskii].
3.00E-23 >XP_002735556 PREDICTED: galactosamine (N-acetyl)-6-sulfate sulfatase-like [Saccoglossus kowalevskii].
7.50E-36 >XP_002736993 PREDICTED: hypothetical protein [Saccoglossus kowalevskii].
6.30E-204 >XP_002736950 PREDICTED: neurogenic locus notch homolog protein 2-like [Saccoglossus kowalevskii].
2.10E-18 >XP_002736951 PREDICTED: neurogenic locus notch homolog protein 2-like [Saccoglossus kowalevskii].
8.00E-247 >XP_002736953 PREDICTED: neurogenic locus notch homolog protein 2-like [Saccoglossus kowalevskii].
7.00E-12 >XP_002737009 PREDICTED: hypothetical protein containing 5-like [Saccoglossus kowalevskii].
9.30E-18 >XP_002738022 PREDICTED: Phospholipase B1, membrane-associated-like [Saccoglossus kowalevskii].
9.30E-18 >XP_002738022 PREDICTED: Phospholipase B1, membrane-associated-like [Saccoglossus kowalevskii].
7.80E-20 >XP_002738207 PREDICTED: hypothetical protein [Saccoglossus kowalevskii].
1.60E-17 >XP_002738207 PREDICTED: NCG27481-like, partial [Saccoglossus kowalevskii].
2.10E-11 >XP_002738443 PREDICTED: cytochrome, di-N-acetyl-like [Saccoglossus kowalevskii].
2.40E-28 >XP_002738787 PREDICTED: arylsulfatase G-like [Saccoglossus kowalevskii].
3.80E-39 >XP_002738787 PREDICTED: arylsulfatase G-like [Saccoglossus kowalevskii].
5.80E-16 >XP_002738966 PREDICTED: hypothetical protein [Saccoglossus kowalevskii].
9.80E-11 >XP_002738966 PREDICTED: hypothetical protein [Saccoglossus kowalevskii].
6.40E-11 >XP_002738966 PREDICTED: hypothetical protein [Saccoglossus kowalevskii].
2.40E-14 >XP_002739568 PREDICTED: polyprotein-like [Saccoglossus kowalevskii].
1.20E-11 >XP_002739568 PREDICTED: polyprotein-like [Saccoglossus kowalevskii].

ConsensusfromContig2423Metazoa-Saccoglossus_kowalevskii_gi291239510
ConsensusfromContig1510Metazoa-Saccoglossus_kowalevskii_gi291239497
ConsensusfromContig2002Metazoa-Saccoglossus_kowalevskii_gi291240811
ConsensusfromContig2314Metazoa-Saccoglossus_kowalevskii_gi291242505
ConsensusfromContig7790Metazoa-Saccoglossus_kowalevskii_gi291242676
ConsensusfromContig4028Metazoa-Saccoglossus_kowalevskii_gi291244251
ConsensusfromContig1560Metazoa-Saccoglossus_kowalevskii_gi291244373
ConsensusfromContig2061Metazoa-Salmo_salar_gi213513131
ConsensusfromContig3106Metazoa-Salmo_salar_gi213515020
ConsensusfromContig4216Metazoa-Salmo_salar_gi213515528
ConsensusfromContig6981Metazoa-Schistosoma_mansonii_gi256076783
ConsensusfromContig2339Metazoa-Schistosoma_mansonii_gi256080938
ConsensusfromContig2430Metazoa-Schistosoma_mansonii_gi256083202
ConsensusfromContig1607Metazoa-Schistosoma_mansonii_gi256087010
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ConsensusfromContig1211Metazoa-Strongylocentrotus_purpuratus_gi115611345
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ConsensusfromContig1956Metazoa-Strongylocentrotus_purpuratus_gi72099679
ConsensusfromContig1937Metazoa-Strongylocentrotus_purpuratus_gi72108971
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ConsensusfromContig5653Metazoa-Taeniopygia_guttata_gi224058363
ConsensusfromContig4896Metazoa-Taeniopygia_guttata_gi224061685
ConsensusfromContig2387Metazoa-Taeniopygia_guttata_gi224098132
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ConsensusfromContig2199Metazoa-Trichoplax_adhaerens_gi196003640
ConsensusfromContig2999Metazoa-Trichoplax_adhaerens_gi196006391
3.30E-26 >XP_002739666 PREDICTED: fatty acid desaturase 2-like [Saccoglossus kowalevskii].
5.10E-19 >XP_002739666 PREDICTED: fatty acid desaturase 2-like [Saccoglossus kowalevskii].
2.50E-105 >XP_002740311 PREDICTED: neurogenic locus notch homolog protein 2-like [Saccoglossus kowalevskii].
1.70E-18 >XP_002741147 PREDICTED: WD repeat domain 52-like [Saccoglossus kowalevskii].
7.70E-11 >XP_002741233 PREDICTED: regulatory associated protein of MTOR, complex 1 [Saccoglossus kowalevskii].
4.40E-28 >XP_002741233 PREDICTED: regulatory associated protein of MTOR, complex 1 [Saccoglossus kowalevskii].
8.20E-13 >XP_002742071 PREDICTED: neurogenic locus notch protein homolog [Saccoglossus kowalevskii].
1.50E-54 >NP_001133389 NOP14 nucleolar protein homolog [Salmo salar].
6.90E-13 >NP_001133389 fucose-1-phosphate guanylyltransferase [Salmo salar].
4.50E-27 >NP_001133235 elongation factor 1 gamma [Salmo salar].
5.50E-47 >XP_002574689 stromal antigen [Schistosoma mansoni].
3.10E-20 >XP_002576732 ER lumen protein retaining receptor [Schistosoma mansoni].
7.30E-12 >XP_002577838 prion interacting pint1 [Schistosoma mansoni].
1.10E-16 >XP_002579673 serine/threonine protein kinase [Schistosoma mansoni].
1.80E-13 >XP_002580566 hypothetical protein [Schistosoma mansoni].
8.40E-14 >XP_001199441 PREDICTED: similar to WD repeat domain 52, partial [Strongylocentrotus purpuratus].
4.60E-25 >XP_784839 PREDICTED: hypothetical protein [Strongylocentrotus purpuratus].
2.70E-13 >XP_001198299 PREDICTED: similar to polyprotein [Strongylocentrotus purpuratus].
5.10E-18 >XP_001178621 PREDICTED: similar to Prefoldin 5 [Strongylocentrotus purpuratus].
7.90E-14 >XP_789028 PREDICTED: similar to Notch homolog Scalloped wings [Strongylocentrotus purpuratus].
2.90E-48 >XP_791473 PREDICTED: similar to ENSG00000005397 [Strongylocentrotus purpuratus].
2.70E-12 >XP_786094 PREDICTED: similar to FRAP-related protein [Strongylocentrotus purpuratus].
1.20E-15 >XP_001191555 PREDICTED: similar to ankyrin 2,3/unc44 [Strongylocentrotus purpuratus].
4.50E-20 >XP_001198868 PREDICTED: similar to sulfatase 1 precursor, partial [Strongylocentrotus purpuratus].
9.00E-11 >XP_786096 PREDICTED: similar to zinc finger protein [Strongylocentrotus purpuratus].
1.80E-11 >XP_786096 PREDICTED: similar to zinc finger protein [Strongylocentrotus purpuratus].
7.80E-19 >XP_001186730 PREDICTED: similar to fibropellin 1a, partial [Strongylocentrotus purpuratus].
1.30E-21 >XP_001204386 PREDICTED: similar to ankyrin 2,3/unc44 [Strongylocentrotus purpuratus].
2.20E-12 >XP_001181433 PREDICTED: similar to ankyrin 2,3/unc44, partial [Strongylocentrotus purpuratus].
3.20E-14 >XP_001186732 PREDICTED: similar to zinc finger protein [Strongylocentrotus purpuratus].
3.20E-14 >XP_001186732 PREDICTED: similar to zinc finger protein [Strongylocentrotus purpuratus].
8.10E-31 >XP_001203096 PREDICTED: similar to EGF-like protein [Strongylocentrotus purpuratus].
2.70E-11 >XP_001186857 PREDICTED: similar to Osl1g0297800 [Strongylocentrotus purpuratus].
8.40E-11 >XP_001203833 PREDICTED: similar to FDI-like protein, partial [Strongylocentrotus purpuratus].
1.30E-12 >XP_788391 PREDICTED: hypothetical protein [Strongylocentrotus purpuratus].
9.20E-17 >XP_782020 PREDICTED: similar to fibropellin 1b [Strongylocentrotus purpuratus].
5.00E-12 >XP_001203833 PREDICTED: similar to polyprotein [Strongylocentrotus purpuratus].
7.20E-23 >XP_001203833 PREDICTED: similar to polyprotein [Strongylocentrotus purpuratus].
1.20E-18 >XP_001203833 PREDICTED: similar to polyprotein [Strongylocentrotus purpuratus].
1.20E-11 >XP_796347 PREDICTED: similar to arylsulfatase B [Strongylocentrotus purpuratus].
5.40E-18 >XP_786592 PREDICTED: similar to PMS2 protein [Strongylocentrotus purpuratus].
4.80E-23 >XP_787963 PREDICTED: similar to endonuclease-reverse transcriptase [Strongylocentrotus purpuratus].
8.40E-14 >XP_001202596 PREDICTED: similar to Leucine rich repeat containing 49, partial [Strongylocentrotus purpuratus].
9.80E-12 >XP_789646 PREDICTED: similar to fibropellin III [Strongylocentrotus purpuratus].
1.40E-15 >XP_001198714 PREDICTED: similar to fibropellin 1b [Strongylocentrotus purpuratus].
5.50E-13 >XP_785057 PREDICTED: similar to putative chloride channel, partial [Strongylocentrotus purpuratus].
4.00E-28 >XP_001196672 PREDICTED: similar to fibropellin 1a, partial [Strongylocentrotus purpuratus].
1.30E-20 >XP_788668 PREDICTED: similar to neurogenic locus notch (notch) [Strongylocentrotus purpuratus].
3.20E-16 >XP_785296 PREDICTED: hypothetical protein [Strongylocentrotus purpuratus].
1.50E-140 >XP_797229 PREDICTED: similar to receptor protein Notch1 [Strongylocentrotus purpuratus].
1.50E-72 >XP_797229 PREDICTED: similar to receptor protein Notch1 [Strongylocentrotus purpuratus].
4.00E-114 >XP_797229 PREDICTED: similar to receptor protein Notch1 [Strongylocentrotus purpuratus].
3.00E-70 >XP_001186266 PREDICTED: similar to argininosuccinate lyase (EC 4.3.2.1) - bullfrog, partial [Strongylocentrotus purpuratus].
1.30E-12 >XP_786001 PREDICTED: similar to ankyrin 2,3/unc44 [Strongylocentrotus purpuratus].
3.70E-14 >XP_001198853 PREDICTED: similar to endonuclease-reverse transcriptase [Strongylocentrotus purpuratus].
4.00E-28 >XP_001198853 PREDICTED: similar to endonuclease-reverse transcriptase [Strongylocentrotus purpuratus].
1.10E-12 >XP_001198853 PREDICTED: similar to endonuclease-reverse transcriptase [Strongylocentrotus purpuratus].
3.80E-24 >XP_001198853 PREDICTED: similar to endonuclease-reverse transcriptase [Strongylocentrotus purpuratus].
9.60E-14 >XP_001198853 PREDICTED: similar to endonuclease-reverse transcriptase [Strongylocentrotus purpuratus].
2.00E-52 >XP_789668 PREDICTED: similar to chloride channel 7 [Strongylocentrotus purpuratus].
4.20E-39 >XP_001199314 PREDICTED: similar to fibropellin 1b [Strongylocentrotus purpuratus].
9.70E-21 >XP_789829 PREDICTED: similar to LOC446948 protein [Strongylocentrotus purpuratus].
2.20E-27 >XP_789829 PREDICTED: similar to LOC446948 protein [Strongylocentrotus purpuratus].
7.40E-19 >XP_783551 PREDICTED: hypothetical protein [Strongylocentrotus purpuratus].
4.10E-14 >XP_796756 PREDICTED: similar to endonuclease-reverse transcriptase, partial [Strongylocentrotus purpuratus].
4.10E-14 >XP_796756 PREDICTED: similar to endonuclease-reverse transcriptase, partial [Strongylocentrotus purpuratus].
1.30E-19 >XP_001180711 PREDICTED: similar to endonuclease-reverse transcriptase [Strongylocentrotus purpuratus].
2.70E-15 >XP_780534 PREDICTED: hypothetical protein [Strongylocentrotus purpuratus].
2.50E-12 >XP_001180763 PREDICTED: similar to ankyrin 2,3/unc44 [Strongylocentrotus purpuratus].
5.10E-23 >XP_001178383 PREDICTED: similar to fibropellin 1b isoform 3 [Strongylocentrotus purpuratus].
2.80E-106 >XP_801879 PREDICTED: similar to Hydroxymethylglutaryl-CoA synthase, cytoplasmic (HMG-CoA synthase) (3-hydroxy-3-methylglutaryl coenzyme A synthase) isoform 4 [Strongylocentrotus purpuratus].
2.20E-11 >XP_785133 PREDICTED: hypothetical protein [Strongylocentrotus purpuratus].
1.90E-12 >XP_799176 PREDICTED: hypothetical protein [Strongylocentrotus purpuratus].
1.70E-11 >XP_790269 PREDICTED: similar to Double C2, beta [Strongylocentrotus purpuratus].
5.70E-24 >XP_795222 PREDICTED: hypothetical protein, partial [Strongylocentrotus purpuratus].
4.20E-21 >XP_790164 PREDICTED: hypothetical protein [Strongylocentrotus purpuratus].
1.30E-19 >XP_002198815 PREDICTED: dolchlyl pyrophosphate Man9GlcNAc2 alpha-1,3-glucosyltransferase [Taeniopygia guttata].
2.10E-19 >XP_002191458 PREDICTED: hypothetical protein [Taeniopygia guttata].
3.30E-20 >XP_002191458 PREDICTED: hypothetical protein [Taeniopygia guttata].
4.00E-19 >XP_002199415 PREDICTED: protein phosphatase 1, catalytic subunit, beta isoform, partial [Taeniopygia guttata].
6.90E-29 >XP_001808080 PREDICTED: similar to protease, reverse transcriptase, ribonuclease H, integrase [Tribolium castaneum].
1.10E-15 >XP_001807231 PREDICTED: similar to orf [Tribolium castaneum].
3.10E-34 >XP_780525 PREDICTED: similar to AGAP03925-PA [Tribolium castaneum].
2.00E-17 >XP_001808548 PREDICTED: similar to AGAP007135-PA [Tribolium castaneum].
9.30E-32 >XP_001810658 PREDICTED: similar to Y26D4.11 [Tribolium castaneum].
1.90E-14 >XP_001806948 PREDICTED: similar to predicted protein, partial [Tribolium castaneum].
3.70E-16 >XP_975469 PREDICTED: similar to factor inhibiting HIF-1, partial [Tribolium castaneum].
1.60E-14 >XP_002109297 PREDICTED: similar to leucine zipper protein [Tribolium castaneum].
9.00E-16 >XP_966659 PREDICTED: similar to TATA-binding protein-associated factor 172 [Tribolium castaneum].
2.90E-15 >XP_967378 PREDICTED: similar to conserved hypothetical protein [Tribolium castaneum].
2.20E-31 >XP_002108930 hypothetical protein TRIADRAFT_18642 [Trichoplax adhaerens].
5.20E-22 >XP_002109297 hypothetical protein TRIADRAFT_21526 [Trichoplax adhaerens].
5.20E-22 >XP_002109297 hypothetical protein TRIADRAFT_21526 [Trichoplax adhaerens].
5.20E-22 >XP_002109297 hypothetical protein TRIADRAFT_21526 [Trichoplax adhaerens].
5.50E-20 >XP_002110571 predicted protein [Trichoplax adhaerens].
8.90E-12 >XP_002111262 hypothetical protein TRIADRAFT_22287 [Trichoplax adhaerens].
3.10E-46 >XP_002111284 hypothetical protein TRIADRAFT_22861 [Trichoplax adhaerens].
1.20E-42 >XP_002111534 hypothetical protein TRIADRAFT_24000 [Trichoplax adhaerens].
1.90E-33 >XP_002111687 hypothetical protein TRIADRAFT_55968 [Trichoplax adhaerens].
3.60E-12 >XP_002113062 hypothetical protein TRIADRAFT_25812 [Trichoplax adhaerens].

ConsensusfromContig7418Metazoa-Trichoplax_adhaerens_g196006429
 ConsensusfromContig5214Metazoa-Trichoplax_adhaerens_g196006517
 ConsensusfromContig4078Metazoa-Trichoplax_adhaerens_g196006531
 ConsensusfromContig2236Metazoa-Trichoplax_adhaerens_g196007192
 ConsensusfromContig7439Metazoa-Trichoplax_adhaerens_g196007806
 ConsensusfromContig3588Metazoa-Trichoplax_adhaerens_g196008331
 ConsensusfromContig7115Metazoa-Trichoplax_adhaerens_g196009971
 ConsensusfromContig2207Metazoa-Trichoplax_adhaerens_g196010744
 ConsensusfromContig7280Metazoa-Trichoplax_adhaerens_g196012036
 ConsensusfromContig5118Metazoa-Trichoplax_adhaerens_g196013711
 ConsensusfromContig2127Metazoa-Xenopus_Silurana_tropicalis_g1187607465
 ConsensusfromContig3824Metazoa-Xenopus_Silurana_tropicalis_g156118404
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 ConsensusfromContig1958Metazoa-Xenopus_Silurana_tropicalis_g171896271
 ConsensusfromContig20112Metazoa-Xenopus_laevis_g147898757
 ConsensusfromContig3174Metazoa-Xenopus_laevis_g147899475
 ConsensusfromContig1997Metazoa-Xenopus_laevis_g147901169
 ConsensusfromContig6297Metazoa-Xenopus_laevis_g147901815
 ConsensusfromContig1982Metazoa-Xenopus_laevis_g147902154
 ConsensusfromContig1243Metazoa-Xenopus_laevis_g147903651
 ConsensusfromContig2431Metazoa-Xenopus_laevis_g147904671
 ConsensusfromContig2010Metazoa-Xenopus_laevis_g147905101
 ConsensusfromContig5131Metazoa-Xenopus_laevis_g148223415
 ConsensusfromContig2018Metazoa-Xenopus_laevis_g148225748
 ConsensusfromContig2003Metazoa-Xenopus_laevis_g148229814
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 ConsensusfromContig3150Nucleiidae-Nuclearia_simplex_str_1_tBNSL00000188_2
 ConsensusfromContig6768Nucleiidae-Nuclearia_simplex_str_4_tBNSL00000639_3
 ConsensusfromContig2124Opisthokonta-Capsaspora_owczarzakii_tBNUL00000647_3
 ConsensusfromContig2766Opisthokonta-Capsaspora_owczarzakii_tBNUL00000907_4
 ConsensusfromContig4836Opisthokonta-Capsaspora_owczarzakii_tBNUL00001857_3
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 ConsensusfromContig5746Opisthokonta-Sphaeroforma_arctica_tBSAL00000005_6
 ConsensusfromContig3124Opisthokonta-Sphaeroforma_arctica_tBSAL00000285_6
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 ConsensusfromContig2017Opisthokonta-Sphaeroforma_arctica_tBSAL00001185_3
 ConsensusfromContig2081Opisthokonta-Sphaeroforma_arctica_tBSAL00002534_4
 ConsensusfromContig1104Planctomyces-Blastopirellula_marina_DSM_3645_gi87306849
 ConsensusfromContig6002Planctomyces-Blastopirellula_marina_DSM_3645_gi87308132
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 ConsensusfromContig1000Planctomyces-Pirellula_staleyii_DSM_6068_gi283779179
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 ConsensusfromContig1685Planctomyces-Planctomyces_limnophilus_DSM_3776_gi296120941
 ConsensusfromContig1934Planctomyces-Planctomyces_maris_DSM_8797_gi149173071
 ConsensusfromContig7035Planctomyces-Planctomyces_maris_DSM_8797_gi149173071
 ConsensusfromContig6062Planctomyces-Planctomyces_maris_DSM_8797_gi149173071
 ConsensusfromContig1180Planctomyces-Planctomyces_maris_DSM_8797_gi149173765
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 ConsensusfromContig5161Planctomyces-Planctomyces_maris_DSM_8797_gi149174292
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 ConsensusfromContig7044Planctomyces-Planctomyces_maris_DSM_8797_gi149174292
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 ConsensusfromContig3157Planctomyces-Planctomyces_maris_DSM_8797_gi149174416
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 ConsensusfromContig7214Planctomyces-Rhodopirellula_baltica_SH_1_gi32470725
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 ConsensusfromContig7235Planctomyces-Rhodopirellula_baltica_SH_1_gi32475430
 ConsensusfromContig5123Planctomyces-Rhodopirellula_baltica_SH_1_gi32477770
 ConsensusfromContig2618Proteobacteria-Acinorax_avenae_subsp_avenae_ATCC_19860_gi270491821
 ConsensusfromContig6201Proteobacteria-Acinorax_avenae_subsp_avenae_ATCC_19860_gi270492445
 ConsensusfromContig5243Proteobacteria-Actinobacillus_minor_202_gi257464835
 ConsensusfromContig6926Proteobacteria-Actinobacillus_sucinigenes_1302_gi152978827
 ConsensusfromContig5203Proteobacteria-Aeromonas_hydrophila_subsp_hydrophila_ATCC_7966_gi117619339
 ConsensusfromContig2941Proteobacteria-Alcanivorax_borkumensis_SK2_gi110833673
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 ConsensusfromContig2345Proteobacteria-alpha_proteobacterium_BAL199_gi163794749
 ConsensusfromContig2055Proteobacteria-alpha_proteobacterium_BAL199_gi163795829
 ConsensusfromContig2447Proteobacteria-alpha_proteobacterium_BAL199_gi163796304
 ConsensusfromContig2027Proteobacteria-alpha_proteobacterium_BAL199_gi163796515
 ConsensusfromContig5412Proteobacteria-Alteromonadales_bacterium_TW_7_gi119468231
 ConsensusfromContig7497Proteobacteria-Alteromonas_macleodii_Deep_ecotype_gi196158406
 1.80E-14 >XP_002113081 hypothetical protein TRIADRAFT_25138 [Trichoplax adhaerens].
 9.40E-33 >XP_002113333 hypothetical protein TRIADRAFT_37778 [Trichoplax adhaerens].
 2.20E-11 >XP_002113132 hypothetical protein TRIADRAFT_50347 [Trichoplax adhaerens].
 6.10E-79 >XP_002113462 hypothetical protein TRIADRAFT_50429 [Trichoplax adhaerens].
 4.00E-40 >XP_002113769 hypothetical protein TRIADRAFT_57533 [Trichoplax adhaerens].
 3.70E-13 >XP_002114031 hypothetical protein TRIADRAFT_58077 [Trichoplax adhaerens].
 2.00E-20 >XP_002114850 expressed hypothetical protein [Trichoplax adhaerens].
 7.30E-50 >XP_002115236 hypothetical protein TRIADRAFT_28979 [Trichoplax adhaerens].
 2.40E-37 >XP_002115881 hypothetical protein TRIADRAFT_30006 [Trichoplax adhaerens].
 1.10E-68 >XP_002116716 hypothetical protein TRIADRAFT_31346 [Trichoplax adhaerens].
 2.60E-52 >NP_001120488 WD repeat domain 63 [Xenopus (Silurana) tropicalis].
 2.20E-26 >NP_001008196 C-terminal binding protein 2 [Xenopus (Silurana) tropicalis].
 2.20E-26 >NP_001008196 C-terminal binding protein 2 [Xenopus (Silurana) tropicalis].
 3.50E-24 >NP_001011500 di-N-acetyltransferase [Xenopus (Silurana) tropicalis].
 6.00E-45 >NP_001025550 hydroxy/potassium-exchanging ATPase 4A [Xenopus (Silurana) tropicalis].
 8.30E-55 >NP_001085150 cell differentiation protein RCD1 homolog [Xenopus laevis].
 8.30E-126 >NP_001085069 polyadenylate-binding protein 1-B [Xenopus laevis].
 7.30E-26 >NP_001087187 U6 snRNA-associated Sm-like protein LSm5 [Xenopus laevis].
 8.40E-15 >NP_001086246 erlin-2-B [Xenopus laevis].
 5.80E-107 >NP_001086064 3-ketoacyl-CoA thiolase, peroxisomal [Xenopus laevis].
 1.20E-11 >NP_001088991 X-epilectin [Xenopus laevis].
 7.10E-23 >NP_001086853 fatty acid desaturase 2 [Xenopus laevis].
 8.80E-38 >NP_001086599 DENN/MADD domain containing 2D [Xenopus laevis].
 1.00E-49 >NP_001079220 calcium/calmodulin-dependent protein kinase IV [Xenopus laevis].
 6.90E-27 >NP_001088845 poly (ADP-ribose) polymerase family, member 3 [Xenopus laevis].
 5.60E-42 >NP_001086557 B9 domain-containing protein 1 [Xenopus laevis].
 8.70E-32 >NP_001086442 helicase, lymphoid-specific [Xenopus laevis].
 1.30E-16 >NP_001128709 antocainin 1, calcium activated chloride channel [Xenopus laevis].
 4.50E-81
 3.10E-12
 8.60E-40
 1.70E-11
 5.50E-11
 5.00E-11
 6.90E-12
 5.00E-11
 9.10E-73
 2.00E-14
 2.00E-14
 2.30E-23 >XP_01088995 serine/threonine protein kinase [Blastopirellula marina DSM 3645].
 1.60E-11 >XP_01090274 Lipolytic enzyme, G-D-S-f family protein [Blastopirellula marina DSM 3645].
 3.00E-11 >XP_01091584 arylsulfatase A [precursor] [Blastopirellula marina DSM 3645].
 4.00E-27 >XP_01094248 putative membrane protein-putative permease [Blastopirellula marina DSM 3645].
 1.50E-18 >XP_01094248 putative membrane protein-putative permease [Blastopirellula marina DSM 3645].
 1.10E-13 >XP_02731807 MirC domain protein [Gemmata obscuriglobus UQM 2246].
 6.80E-24 >XP_02731883 hypothetical protein GobsJ_08794 [Gemmata obscuriglobus UQM 2246].
 4.40E-24 >XP_02731839 hypothetical protein GobsJ_10078 [Gemmata obscuriglobus UQM 2246].
 8.30E-31 >XP_02736524 hypothetical protein GobsJ_32224 [Gemmata obscuriglobus UQM 2246].
 1.10E-38 >XP_02737027 peptidase S15 [Gemmata obscuriglobus UQM 2246].
 7.20E-11 >YP_003369394 hypothetical protein Psta_1398 [Pirellula staleyii DSM 6068].
 1.20E-13 >YP_003369991 sulfatase [Pirellula staleyii DSM 6068].
 3.70E-67 >XP_03712113 Phytanyl-CoA oxygenase [Pirellula staleyii DSM 6068].
 3.90E-19 >YP_003372929 protein of unknown function DUF303 acetyltransferase putative [Pirellula staleyii DSM 6068].
 3.30E-11 >YP_003628719 Phytanyl-CoA dioxygenase [Planctomyces limnophilus DSM 3776].
 3.20E-30 >XP_01851702 hypothetical protein PM8797_27814 [Planctomyces maris DSM 8797].
 4.00E-58 >XP_01851702 hypothetical protein PM8797_27814 [Planctomyces maris DSM 8797].
 5.20E-17 >XP_01851702 hypothetical protein PM8797_27814 [Planctomyces maris DSM 8797].
 1.70E-18 >XP_01852394 Amidohydrolase 2 [Planctomyces maris DSM 8797].
 8.10E-19 >XP_01852919 YcG [Planctomyces maris DSM 8797].
 6.80E-32 >XP_01852919 YcG [Planctomyces maris DSM 8797].
 1.90E-27 >XP_01852919 YcG [Planctomyces maris DSM 8797].
 6.80E-32 >XP_01852919 YcG [Planctomyces maris DSM 8797].
 1.50E-14 >XP_01852919 YcG [Planctomyces maris DSM 8797].
 6.90E-35 >XP_01852919 YcG [Planctomyces maris DSM 8797].
 8.20E-15 >XP_01852919 YcG [Planctomyces maris DSM 8797].
 3.20E-11 >XP_01853035 hypothetical protein PM8797_09059 [Planctomyces maris DSM 8797].
 1.30E-52 >XP_01853042 putative secreted protein [Planctomyces maris DSM 8797].
 1.10E-20 >XP_01854292 hypothetical protein PM8797_31148 [Planctomyces maris DSM 8797].
 2.10E-19 >XP_01854292 hypothetical protein PM8797_31148 [Planctomyces maris DSM 8797].
 3.00E-17 >XP_01854551 hypothetical protein PM8797_03745 [Planctomyces maris DSM 8797].
 3.90E-24 >XP_01854551 hypothetical protein PM8797_03745 [Planctomyces maris DSM 8797].
 1.50E-43 >XP_01855810 hypothetical protein PM8797_17107 [Planctomyces maris DSM 8797].
 6.60E-17 >XP_01855810 hypothetical protein PM8797_17107 [Planctomyces maris DSM 8797].
 1.10E-48 >XP_01856221 hypothetical protein PM8797_00392 [Planctomyces maris DSM 8797].
 1.10E-48 >XP_01856221 hypothetical protein PM8797_00392 [Planctomyces maris DSM 8797].
 1.70E-14 >XP_01856221 hypothetical protein PM8797_00392 [Planctomyces maris DSM 8797].
 2.60E-15 >XP_01856666 hypothetical protein PM8797_02314 [Planctomyces maris DSM 8797].
 2.40E-13 >XP_01856666 hypothetical protein PM8797_02314 [Planctomyces maris DSM 8797].
 1.60E-16 >XP_01856884 hypothetical protein PM8797_01034 [Planctomyces maris DSM 8797].
 1.70E-12 >XP_01856944 hypothetical protein PM8797_08389 [Planctomyces maris DSM 8797].
 3.80E-12 >XP_01858088 hypothetical protein PM8797_10349 [Planctomyces maris DSM 8797].
 1.60E-12 >NP_863718 cysteine proteinase [Rhodopirellula baltica SH 1].
 4.20E-15 >NP_864038 alpha-rhamnosidase [Rhodopirellula baltica SH 1].
 1.30E-17 >NP_866103 hypothetical protein RB4444 [Rhodopirellula baltica SH 1].
 2.70E-15 >NP_867087 hypothetical protein RB6145 [Rhodopirellula baltica SH 1].
 3.20E-13 >NP_868424 uridylyl kinase [Rhodopirellula baltica SH 1].
 3.20E-11 >NP_870764 hypothetical protein RB12890 [Rhodopirellula baltica SH 1].
 3.70E-26 >XP_02592984 hypothetical protein phosphatase [Acidovorax avenae subsp. avenae ATCC 19860].
 4.00E-23 >XP_06209506 NCS1 nucleoside transporter family [Acidovorax avenae subsp. avenae ATCC 19860].
 5.00E-53 >XP_05629206 ribonucleotide-diphosphate reductase subunit alpha [Actinobacillus minor 202].
 1.70E-57 >YP_001344456 gluconate 5'-dehydrogenase [Actinobacillus succinigenes 1302].
 6.90E-60 >XP_02190265 Aramidohydrolase [Aeromonas hydrophila subsp. hydrophila ATCC 7966].
 2.40E-14 >YP_692532 CAIB/BAIF family protein [Alcanivorax borkumensis SK2].
 2.40E-14 >YP_692532 CAIB/BAIF family protein [Alcanivorax borkumensis SK2].
 7.90E-28 >XP_02188719 hypothetical protein BAL199_27356 [alpha proteobacterium BAL199].
 7.40E-28 >XP_02189793 putative alpha-ketoglutarate-dependent taurine dioxygenase oxidoreductase [alpha proteobacterium BAL199].
 3.70E-43 >XP_02190265 Aramidohydrolase [alpha proteobacterium BAL199].
 4.40E-23 >XP_02190474 Acyl-CoA transferase/carnitine dehydratase [alpha proteobacterium BAL199].
 8.30E-24 >XP_01611357 aconitate hydratase [Alteromonadales bacterium TW-7].
 8.40E-13 >YP_002127895 Type I site-specific restriction-modification system, R (restriction) subunit and related helicase [Alteromonas macleodii 'Deep ecotype']

ConsensususfromContig6962Proteobacteria-Anaeromyxobacter_dehalogenans_ZCP_1_gi220916418
 ConsensususfromContig1438Proteobacteria-Anaeromyxobacter_sp_Fw109_5_gi153005739
 ConsensususfromContig5165Proteobacteria-Anaeromyxobacter_sp_Fw109_5_gi153005739
 ConsensususfromContig6957Proteobacteria-Anaeromyxobacter_sp_Fw109_5_gi153005739
 ConsensususfromContig2042Proteobacteria-Anaeromyxobacter_sp_Fw109_5_gi153005784
 ConsensususfromContig1994Proteobacteria-Anaeromyxobacter_sp_K_gi157124590
 ConsensususfromContig3136Proteobacteria-Azoarcus_sp_BH72_gi119898285
 ConsensususfromContig5608Proteobacteria-Azorhizobium_caulinodans_OR5_571_gi158421738
 ConsensususfromContig2980Proteobacteria-Azorhizobium_caulinodans_OR5_571_gi158424298
 ConsensususfromContig1994Proteobacteria-Azospirillum_sp_B510_gi288963197
 ConsensususfromContig1942Proteobacteria-Bdellovibrio_bacteriovorus_HD100_gi42523439
 ConsensususfromContig2343Proteobacteria-Bdellovibrio_bacteriovorus_HD100_gi42524003
 ConsensususfromContig6956Proteobacteria-Bordetella_bronchiseptica_RB50_gi33600733
 ConsensususfromContig6936Proteobacteria-Bordetella_bronchiseptica_RB50_gi33600980
 ConsensususfromContig3357Proteobacteria-Burkholderia_sp_H160_gi209517614
 ConsensususfromContig2282Proteobacteria-Bradyrhizobium_japonicum_USDA_110_gi27380745
 ConsensususfromContig2684Proteobacteria-Burkholderia_ambifaria_MC40_6_gi172064546
 ConsensususfromContig2558Proteobacteria-Burkholderia_oklahomensis_EO147_gi167566383
 ConsensususfromContig6316Proteobacteria-Burkholderia_phytomatum_STM815_gi186472826
 ConsensususfromContig5129Proteobacteria-Burkholderia_pseudomallei_DM98_gi167721025
 ConsensususfromContig6927Proteobacteria-Burkholderia_pseudomallei_K96243_gi53717750
 ConsensususfromContig1391Proteobacteria-Burkholderia_sp_CCGE1001_gi282883412
 ConsensususfromContig6621Proteobacteria-Burkholderia_sp_Ch1_1_gi296163597
 ConsensususfromContig2880Proteobacteria-Burkholderia_sp_H160_gi209517614
 ConsensususfromContig5238Proteobacteria-Burkholderia_sp_H160_gi209517651
 ConsensususfromContig5930Proteobacteria-Burkholderia_ubonensis_Bu_gi167587199
 ConsensususfromContig5930Proteobacteria-Burkholderia_ubonensis_Bu_gi167587199
 ConsensususfromContig1577Proteobacteria-Burkholderia_vietnamiensis_G4_gi134291637
 ConsensususfromContig5495Proteobacteria-Campylobacter_upsalensis_RM3195_gi57241915
 ConsensususfromContig3021Proteobacteria-Candidatus_Accumulibacter_phosphatis_clade_IIA_str_UW_1_gi257092579
 ConsensususfromContig6052Proteobacteria-Candidatus_Accumulibacter_phosphatis_clade_IIA_str_UW_1_gi257093883
 ConsensususfromContig2370Proteobacteria-Candidatus_Puncicepsillum_marinum_IMCC1322_gi294084336
 ConsensususfromContig1359Proteobacteria-Candidatus_Puncicepsillum_marinum_IMCC1322_gi294084337
 ConsensususfromContig6935Proteobacteria-Caulobacter_segnis_ATCC_21756_gi29568577
 ConsensususfromContig6503Proteobacteria-Cellvibrio_japonicus_Ueda107_gi192361044
 ConsensususfromContig1944Proteobacteria-Colwellia_psychrerythraea_34H_gi17282552
 ConsensususfromContig6314Proteobacteria-Comamonas_sp_CNB_1_gi190571980
 ConsensususfromContig922Proteobacteria-Comamonas_sp_CNB_1_gi190571980
 ConsensususfromContig2362Proteobacteria-Comamonas_testosteroni_KF_1_gi221068722
 ConsensususfromContig2362Proteobacteria-Comamonas_testosteroni_KF_1_gi221068722
 ConsensususfromContig3267Proteobacteria-Comamonas_testosteroni_S44_gi2299530332
 ConsensususfromContig2075Proteobacteria-Congregibacter_Itoralis_KT71_gi688704759
 ConsensususfromContig8894Proteobacteria-Cupriavidus_metallicdurans_CH34_gi56130724
 ConsensususfromContig6663Proteobacteria-Cupriavidus_metallicdurans_CH34_gi56130724
 ConsensususfromContig1515Proteobacteria-Cupriavidus_metallicdurans_CH34_gi94313422
 ConsensususfromContig6683Proteobacteria-Cupriavidus_metallicdurans_CH34_gi94314012
 ConsensususfromContig2415Proteobacteria-Cupriavidus_taiwanensis_gi188591457
 ConsensususfromContig1624Proteobacteria-Cupriavidus_taiwanensis_gi194289609
 ConsensususfromContig3052Proteobacteria-Delta_acidovorans_SPH_1_gi160895891
 ConsensususfromContig5128Proteobacteria-Delta_acidovorans_SPH_1_gi160899935
 ConsensususfromContig6795Proteobacteria-Delta_acidovorans_SPH_1_gi160899929
 ConsensususfromContig4544Proteobacteria-Delta_acidovorans_SPH_1_gi160901225
 ConsensususfromContig2244Proteobacteria-Desulfatibacillum_alkenivorans_AK_01_gi218779512
 ConsensususfromContig1959Proteobacteria-Desulfatibacillum_alkenivorans_AK_01_gi218781705
 ConsensususfromContig3128Proteobacteria-Desulfococcus_oleovorans_Hxd3_gi158522297
 ConsensususfromContig580Proteobacteria-Desulfotolubium_retaeae_DSM_5692_gi258406639
 ConsensususfromContig6927Proteobacteria-Desulfotalea_pschrophila_LsV54_gi51244085
 ConsensususfromContig5108Proteobacteria-Desulfovibrio_desulfuricans_subsp_desulfuricans_str_ATCC_27774_gi220905497
 ConsensususfromContig2121Proteobacteria-Desulfovibrio_sp_FW10128_gi283852716
 ConsensususfromContig2415Proteobacteria-Desulfovibrio_vulgaris_str_Hildenborough_gi46579286
 ConsensususfromContig580Proteobacteria-Desulfovibrio_alkaliphilus_AHT2_gi297568893
 ConsensususfromContig7375Proteobacteria-Dickeya_zeae_Ech1591_gi251791300
 ConsensususfromContig1253Proteobacteria-Ehrlichia_chaffeensis_str_Sapulpa_gi68171923
 ConsensususfromContig2820Proteobacteria-Ehrlichia_chaffeensis_str_Sapulpa_gi68171923
 ConsensususfromContig5429Proteobacteria-Francisella_philomiragia_subsp_philomiragia_ATCC_25015_gi254876751
 ConsensususfromContig2259Proteobacteria-gamma_proteobacterium_NORS1_B_gi254828757
 ConsensususfromContig2259Proteobacteria-gamma_proteobacterium_NORS1_B_gi254828757
 ConsensususfromContig1819Proteobacteria-Geobacter_lovleyi_SZ_gi189425489
 ConsensususfromContig2024Proteobacteria-Geobacter_sp_M18_gi255057344
 ConsensususfromContig2862Proteobacteria-Geobacter_uranilireducens_Rf4_gi148264042
 ConsensususfromContig1997Proteobacteria-Gluconacetobacter_hansenii_ATCC_23769_gi296114143
 ConsensususfromContig4449Proteobacteria-Haemophilus_parasuis_SH0165_gi219871495
 ConsensususfromContig2373Proteobacteria-Haemophilus_somnus_129PT_gi13461606
 ConsensususfromContig5693Proteobacteria-Haliangium_ochraceum_DSM_14365_gi262194098
 ConsensususfromContig2096Proteobacteria-Haliangium_ochraceum_DSM_14365_gi262196757
 ConsensususfromContig2038Proteobacteria-Haliangium_ochraceum_DSM_14365_gi262197238
 ConsensususfromContig6376Proteobacteria-Haliangium_ochraceum_DSM_14365_gi262198178
 ConsensususfromContig440Proteobacteria-Herbaspirillum_seropediaceae_SmR1_gi300311980
 ConsensususfromContig1029Proteobacteria-Herbaspirillum_seropediaceae_SmR1_gi300312509
 ConsensususfromContig6995Proteobacteria-Hirschia_baltica_ATCC_49814_gi254294104
 ConsensususfromContig5268Proteobacteria-Hirschia_baltica_ATCC_49814_gi254294854
 ConsensususfromContig5343Proteobacteria-Hoeflea_phototrophica_DFL_43_gi163757603
 ConsensususfromContig1994Proteobacteria-Idiomarina_loihiensis_L2TR_gi56459240
 ConsensususfromContig1310Proteobacteria-Idiomarina_loihiensis_L2TR_gi56459588
 ConsensususfromContig6892Proteobacteria-Idiomarina_loihiensis_L2TR_gi56460271
 ConsensususfromContig1298Proteobacteria-Idiomarina_loihiensis_L2TR_gi56460322
 ConsensususfromContig1325Proteobacteria-Idiomarina_loihiensis_L2TR_gi56460770
 ConsensususfromContig1059Proteobacteria-Idiomarina_loihiensis_L2TR_gi56460984
 ConsensususfromContig4290Proteobacteria-Idiomarina_loihiensis_L2TR_gi56460991
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 ConsensususfromContig1394Proteobacteria-Idiomarina_loihiensis_L2TR_gi56461267
 ConsensususfromContig1214Proteobacteria-Idiomarina_loihiensis_L2TR_gi56461386
 ConsensususfromContig6622Proteobacteria-Idiomarina_loihiensis_L2TR_gi56461418
 ConsensususfromContig6707Proteobacteria-Idiomarina_loihiensis_L2TR_gi56461436
 ConsensususfromContig5097Proteobacteria-Idiomarina_loihiensis_L2TR_gi56461495
 ConsensususfromContig3404Proteobacteria-Danthinobacterium_sp_Marseille_gi32979769
 ConsensususfromContig2350Proteobacteria-Kingella_oralis_ATCC_51147_gi238022230
 ConsensususfromContig6182Proteobacteria-Klebsiella_pneumoniae_subsp_rhinoscleromatis_ATCC_13884_gi262042515
 ConsensususfromContig4416Proteobacteria-Labrenzia_aggregata_IAM_12614_gi118590869
 1.20E-11 >YP_002491772 hypothetical protein A2cp_1.1312 [Anaeromyxobacter dehalogenans 2CP-1].
 1.20E-27 >YP_001380064 hypothetical protein Ana09_2880 [Anaeromyxobacter sp. Fw109-5].
 1.10E-31 >YP_001380064 hypothetical protein Ana09_2880 [Anaeromyxobacter sp. Fw109-5].
 1.20E-39 >YP_001380064 hypothetical protein Ana09_2880 [Anaeromyxobacter sp. Fw109-5].
 2.50E-16 >YP_001380109 hypothetical protein Ana09_2925 [Anaeromyxobacter sp. Fw109-5].
 7.50E-14 >YP_001380109 hypothetical protein Ana09_2925 [Anaeromyxobacter sp. Fw109-5].
 7.40E-11 >YP_933498.2-dehydropanoate 2-reductase [Azoarcus sp. BH72].
 2.10E-11 >YP_001523030 NADH flavin oxidoreductase [Azorhizobium caulinodans ORS 571].
 1.30E-15 >YP_001525590 phenylhydantoinase [Azorhizobium caulinodans ORS 571].
 3.50E-23 >YP_003453476 TPR repeat-containing protein [Azospirillum sp. B510].
 1.60E-12 >NP_068819 putative V6-like Glu-specific endopeptidase [Bdellovibrio bacteriovorus HD100].
 8.90E-12 >NP_969383 hypothetical protein Bd2581 [Bdellovibrio bacteriovorus HD100].
 3.60E-21 >NP_888293 short chain dehydrogenase [Bordetella bronchiseptica RB50].
 6.30E-59 >NP_888540 hypothetical protein BB1995 [Bordetella bronchiseptica RB50].
 1.30E-12 >YP_001630209 hypothetical protein Bpe1601 [Bordetella petrii DSM 12804].
 5.00E-15 >NP_772274 putative 3-oxoacyl-[acyl-carrier-protein] reductase [Bradyrhizobium japonicum USDA 110].
 7.60E-22 >YP_001812196 hypothetical protein BamMC406_6522 [Burkholderia ambifaria MC40-6].
 2.00E-32 >ZP_02359299 hypothetical protein BokIE_27754 [Burkholderia oklahomensis EO147].
 2.90E-15 >YP_001860168 nitroreductase [Burkholderia phytomatum STM815].
 2.20E-15 >ZP_02404261 type 1 polyketide synthase Wctr [Burkholderia pseudomallei DM98].
 1.30E-87 >YP_106736 putative carbon-nitrogen hydrolase [Burkholderia pseudomallei K96243].
 4.70E-35 >ZP_06292001 protein of unknown function DUF839 [Burkholderia sp. CCGE1001].
 4.30E-13 >ZP_06846332 RNA-directed DNA polymerase (Reverse transcriptase) [Burkholderia sp. Ch1-1].
 6.80E-11 >YP_003701734 adenine-specific DNA methyltransferase (MFCM1) [Campylobacter upsaliensis RM3195].
 4.00E-12 >ZP_03266489 conserved hypothetical protein [Burkholderia sp. H160].
 6.30E-11 >ZP_02379587 high-affinity nickel-transporter [Burkholderia ubonensis Bu].
 6.30E-11 >ZP_02379587 high-affinity nickel-transporter [Burkholderia ubonensis Bu].
 8.20E-31 >YP_001151540 putative transcriptional regulator [Burkholderia vietnamiensis G4].
 1.70E-41 >YP_003190389 conserved hypothetical protein [Burkholderia vietnamiensis G4].
 3.10E-20 >YP_003166220 acyltransferase 3 [Candidatus Accumulibacter phosphatis clade IIA str. UW-1].
 1.90E-21 >YP_003167524 Glutathione S-transferase domain protein [Candidatus Accumulibacter phosphatis clade IIA str. UW-1].
 1.60E-14 >YP_003551094 phytanoyl-CoA dioxygenase [Candidatus Puncicepsillum marinum IMCC1322].
 1.20E-49 >YP_003551095 diaminiopropionate ammonia-lyase [Candidatus Puncicepsillum marinum IMCC1322].
 1.30E-62 >YP_003592720 cobalamin synthesis protein P47k [Caulobacter segnis ATCC 21756].
 1.90E-15 >YP_001981834 CAIB/BAIF family protein [Cellvibrio japonicus Ueda107].
 2.30E-13 >YP_270567 serine protease [Colwellia psychrerythraea 34H].
 2.50E-11 >YP_001967706 transposase Tr3 [Comamonas sp. CNB-1].
 7.40E-24 >YP_001967706 transposase Tr3 [Comamonas sp. CNB-1].
 1.70E-12 >ZP_03544827 Sell domain protein repeat-containing protein [Comamonas testosteroni KF-1].
 1.70E-12 >ZP_03544827 Sell domain protein repeat-containing protein [Comamonas testosteroni KF-1].
 6.70E-16 >ZP_07043757 bacteriophage protein [Comamonas testosteroni S44].
 8.00E-18 >ZP_01102472 peptidase yuxL [Congregibacter Itoralis KT71].
 4.90E-22 >YP_145632 general secretion pathway protein [Ralstonia metallidurans CH34].
 5.50E-23 >YP_145627 general secretion pathway protein [Ralstonia metallidurans CH34].
 2.00E-19 >YP_586631 ferric siderophore receptor protein (TonB-dependent siderophore receptor) [Cupriavidus metallidurans CH34].
 4.80E-18 >YP_587221 N-acyl-D-amino-acetyl receptor [Cupriavidus metallidurans CH34].
 4.60E-25 >YP_00179655 hypothetical protein pRfA_01165 [Cupriavidus taiwanensis].
 2.10E-12 >YP_002005516 conserved hypothetical protein, ankyrin repeat domain; putative exported protein [Cupriavidus taiwanensis].
 5.80E-35 >YP_001561473 LysR family transcriptional regulator [Deltia acidovorans SPH-1].
 1.90E-42 >YP_001565517 aspartate racemase [Deltia acidovorans SPH-1].
 1.30E-22 >YP_001566511 preprotein translocase subunit SecY [Deltia acidovorans SPH-1].
 3.80E-12 >YP_001566511 hypothetical protein Dae_5794 [Deltia acidovorans SPH-1].
 2.00E-17 >YP_002430830 D-isomer specific 2-hydroxyacid dehydrogenase NAD-binding [Desulfatibacillum alkenivorans AK-01].
 3.80E-53 >YP_002433023 3-hydroxybutyryl-CoA dehydrogenase [Desulfatibacillum alkenivorans AK-01].
 1.00E-14 >YP_001530167 YadA domain-containing protein [Desulfococcus oleovorans Hxd3].
 4.20E-26 >YP_003263507 amino acid adenylation domain protein [Haliangium ochraceum DSM 14365].
 7.00E-57 >YP_063969 calcium/proton antiporter [Desulfotalea psychrophila LsV54].
 1.40E-29 >YP_002480809 hypothetical protein Ddes_2235 [Desulfovibrio desulfuricans subsp. desulfuricans str. ATCC 27774].
 2.70E-11 >ZP_06369981 cyclic nucleotide-regulated small mechanosensitive ion channel [Desulfovibrio sp. FW10128].
 1.30E-27 >YP_010094 elongation factor Ts [Desulfovibrio vulgaris str. Hildenborough].
 5.00E-13 >YP_003690196 domain of unknown function DUF1745 [Desulfovibrio alkaliphilus AHT2].
 7.00E-11 >YP_003060621 amine oxidase [Dickeya zeae Ech1591].
 5.90E-15 >ZP_00545241 Cytochrome b/b6, C-terminal [Ehrlichia chaffeensis str. Sapulpa].
 6.50E-16 >ZP_00545241 Cytochrome b/b6, C-terminal [Ehrlichia chaffeensis str. Sapulpa].
 1.20E-16 >ZP_05249461 FAD binding family protein [Francisella philomiragia subsp. philomiragia ATCC 25015].
 1.50E-27 >ZP_04957725 aminomethyltransferase [gamma proteobacterium NORS1-B].
 1.50E-27 >ZP_04957725 aminomethyltransferase [gamma proteobacterium NORS1-B].
 1.20E-14 >YP_001952666 hypothetical protein Glov_2432 [Geobacter lovleyi SZ].
 3.40E-40 >ZP_053095720 tail sheath protein [Geobacter sp. M18].
 3.10E-24 >YP_001230749 Sell domain-containing protein [Geobacter uranilireducens Rf4].
 3.90E-47 >ZP_06832798 putative cytoplasmic protein [Gluconacetobacter hansenii ATCC 23769].
 4.60E-20 >YP_002475870 ribonucleotide-diphosphate reductase alpha subunit [Haemophilus parasuis SH0165].
 3.40E-12 >YP_719675 hypothetical protein HS_1465 [Haemophilus somnus 129PT].
 1.10E-14 >YP_003263507 amino acid adenylation domain protein [Haliangium ochraceum DSM 14365].
 1.10E-14 >YP_003267966 Glutaryl-7-aminocephalosporanic-acid acylase [Haliangium ochraceum DSM 14365].
 1.00E-14 >YP_003268447 Phytanoyl-CoA dioxygenase [Haliangium ochraceum DSM 14365].
 5.60E-16 >YP_003269387 peptidase M20 [Haliangium ochraceum DSM 14365].
 3.40E-18 >YP_003776072 Fe-S protein [Herbaspirillum seropediaceae SmR1].
 3.30E-11 >YP_003776072 hypothetical protein Hsp20 [Herbaspirillum seropediaceae SmR1].
 3.30E-11 >YP_003060127 NADH-uquinone/plastoquinone oxidoreductase chain 3 [Hirschia baltica ATCC 49814].
 2.50E-13 >YP_003060877 hypothetical protein Hbal_2505 [Hirschia baltica ATCC 49814].
 2.50E-23 >ZP_02164692 putative TolB-like protein [Hoeflea phototrophica DFL-43].
 7.00E-16 >YP_154521 hypothetical protein H129 [Idiomarina loihiensis L2TR].
 8.30E-37 >YP_154869 TPase ObgE [Idiomarina loihiensis L2TR].
 4.00E-21 >YP_155552 Outer membrane protein [Idiomarina loihiensis L2TR].
 2.20E-37 >YP_155603 transposase Tra5 related protein [Idiomarina loihiensis L2TR].
 2.60E-45 >YP_156051 ZOG-Fe(II) oxygenase superfamily protein [Idiomarina loihiensis L2TR].
 8.80E-12 >YP_156255 acyltransferase [Idiomarina loihiensis L2TR].
 4.30E-35 >YP_156272 DNA-directed RNA polymerase subunit alpha [Idiomarina loihiensis L2TR].
 1.00E-36 >YP_156334 DNA topoisomerase IV subunit A [Idiomarina loihiensis L2TR].
 1.20E-37 >YP_156374 NAD-dependent aldehyde dehydrogenase [Idiomarina loihiensis L2TR].
 1.30E-12 >YP_156548 PenM family penicillinase [Idiomarina loihiensis L2TR].
 4.30E-30 >YP_156667 acetyl-CoA carboxylase biotin carboxylase subunit [Idiomarina loihiensis L2TR].
 3.60E-17 >YP_156699 bifunctional N-succinylamino-pimelate-aminotransferase/acetylornithine transaminase protein [Idiomarina loihiensis L2TR].
 2.80E-16 >YP_156717 Zn-dependent peptidase [Idiomarina loihiensis L2TR].
 1.50E-22 >YP_156076 amino acid transporter [Idiomarina loihiensis L2TR].
 6.10E-11 >YP_00152747 mandelate racemase/mucronate lactonizing enzyme family protein [Danthinobacterium sp. Marseille].
 9.40E-12 >ZP_04602656 hypothetical protein GCWU00324_02137 [Kingella oralis ATCC 51147].
 3.50E-11 >ZP_06105673 conserved hypothetical protein [Klebsiella pneumoniae subsp. rhinoscleromatis ATCC 13884].
 7.10E-18 >ZP_00158269 probable D-lactate dehydrogenase [Stappia aggregata IAM 12614].

ConsensusfromContig6924Proteobacteria-Rhodobacteraceae_bacterium_KLH11_gi254513300
1.20E-24 >ZP_05125365 MlrC domain protein [Rhodobacteraceae bacterium KLH11]
ConsensusfromContig1541Proteobacteria-Rhodobacterales_bacterium_HTCC2150_gi125727058
6.20E-23 >ZP_01742896 hypothetical protein RB2150_19262 [Rhodobacterales bacterium HTCC2150].
ConsensusfromContig3140Proteobacteria-Rhodobacterales_bacterium_HTCC2654_gi84684134
6.00E-23 >ZP_01012036 molybdenum cofactor biosynthesis domain protein [Maritimibacter alkaliphilus HTCC2654].
ConsensusfromContig2279Proteobacteria-Rhodofera_ferrireducens_T118_gi89899782
1.50E-13 >YF_522253 N-acyl-D-amino-acid deacylase [Rhodofera ferrireducens T118].
ConsensusfromContig4106Proteobacteria-Rhodofera_ferrireducens_T118_gi89900973
7.20E-13 >YF_523444 beta-lactamase [Rhodofera ferrireducens T118].
ConsensusfromContig2410Proteobacteria-Rhodospirillum_palustris_BiAS53_gi115325369
1.10E-11 >ZP_01444759 PseA-like protein [Rhodospirillum palustris BiAS53].
ConsensusfromContig5160Proteobacteria-Rhodospirillum_palustris_DX_1_gi283842040
5.50E-38 >ZP_0639579 2-dehydroapoptate 2-reductase [Rhodospirillum palustris DX-1].
ConsensusfromContig6940Proteobacteria-Rhodospirillum_centenum_SW_gi209965023
5.10E-51 >YF_002297938 low specificity L-threonine aldolase [Rhodospirillum centenum SW].
ConsensusfromContig6051Proteobacteria-Rhodospirillum_rubrum_ATCC_11170_gi83592897
3.00E-24 >YF_426649 respiratory-chain NADH dehydrogenase, subunit I [Rhodospirillum rubrum ATCC 11170].
ConsensusfromContig1776Proteobacteria-Rhodospirillum_rubrum_ATCC_11170_gi83593349
5.10E-14 >YF_427101 twin-arginine translocation pathway signal [Rhodospirillum rubrum ATCC 11170].
ConsensusfromContig5132Proteobacteria-Roseomonas_cervicalis_ATCC_49957_gi296533570
1.60E-28 >YF_06896139 methyltransferase [Roseomonas cervicalis ATCC 49957].
ConsensusfromContig4372Proteobacteria-Roseomonas_cervicalis_ATCC_49957_gi296533581
4.30E-14 >ZP_0689149 ATP-dependent hsl protease ATP-binding subunit HslU [Roseomonas cervicalis ATCC 49957].
ConsensusfromContig3446Proteobacteria-Roseomonas_cervicalis_ATCC_49957_gi296536768
1.30E-32 >ZP_06898823 3-hydroxybutyryl-CoA dehydrogenase [Roseomonas cervicalis ATCC 49957].
ConsensusfromContig2113Proteobacteria-Roseovarius_nubinihibens_ISM_gi83951734
2.80E-23 >ZP_00960466 hydroxymethylglutaryl-CoA lyase [Roseovarius nubinihibens ISM].
ConsensusfromContig5214Proteobacteria-Roseovarius_sp_HTCC2601_gi114765660
2.00E-25 >ZP_01444759 keto-hydroxyglutarate-aldolase/keto-deoxy-phosphogluconate aldolase [Pelagibaca bermudensis HTCC2601].
ConsensusfromContig1964Proteobacteria-Ruegeria_pomeroiy_DSS_3_gi56696583
3.00E-16 >YF_166641 hypothetical protein SPO1702 [Ruegeria pomeroiy DSS-3].
ConsensusfromContig1038Proteobacteria-Ruegeria_sp_R11_gi254475257
1.30E-21 >ZP_05088643 ectoine utilization protein EutD [Ruegeria sp. R11].
ConsensusfromContig4460Proteobacteria-Ruegeria_sp_TM1040_gi99081029
1.00E-18 >YF_613183 ABC transporter related [Ruegeria sp. TM1040].
ConsensusfromContig3720Proteobacteria-Saccharophagus_degradans_2_40_gi90021240
6.60E-13 >YF_527067 ribosomal protein S32 [Saccharophagus degradans 2-40].
ConsensusfromContig3720Proteobacteria-Saccharophagus_degradans_2_40_gi90021248
2.00E-25 >ZP_01444759 keto-hydroxyglutarate-aldolase/keto-deoxy-phosphogluconate aldolase [Pelagibaca bermudensis HTCC2601].
ConsensusfromContig3006Proteobacteria-Saccharophagus_degradans_2_40_gi90022708
1.30E-37 >YF_528535 transglutaminase-like [Saccharophagus degradans 2-40].
ConsensusfromContig3148Proteobacteria-Saccharophagus_degradans_2_40_gi90023340
1.20E-40 >YF_529167 response regulator receiver domain-containing protein [Saccharophagus degradans 2-40].
ConsensusfromContig1987Proteobacteria-Salmonella_enterica_subsp_enterica_serovar_4_[5,12]_i_str_CVM23701_gi205
3.50E-54 >ZP_03223900 DNA methylase [Salmonella enterica subsp. enterica serovar 4,[5],12:i- str. CVM23701].
ConsensusfromContig5157Proteobacteria-Shewanella_amazonensis_SB28_gi119774239
1.30E-14 >YF_926979 ATPase [Shewanella amazonensis SB28].
ConsensusfromContig5955Proteobacteria-Shewanella_benthica_KT99_gi163750291
6.50E-15 >ZP_02157532 acetyltransferase, GNAT family protein [Shewanella benthica KT99].
ConsensusfromContig5157Proteobacteria-Shewanella_sp_MR_7_gi114046475
3.70E-12 >YF_737025 DNA-N1-methyladenine dioxygenase [Shewanella sp. MR-7].
ConsensusfromContig6950Proteobacteria-Shigella_flexneri_5_str_8401_gi110804179
6.30E-131 >YF_687699 bifunctional aconitate hydratase 2/2-methylisocitrate dehydratase [Shigella flexneri 5 str. 8401].
ConsensusfromContig5108Proteobacteria-Silicibacter_sp_TrichCH4B_gi259418700
4.30E-25 >ZP_05742617 hypothetical protein SICH4B_4104 [Silicibacter sp. TrichCH4B].
ConsensusfromContig2054Proteobacteria-Sorangium_cellulosum_So_ce_56_gi1162449238
1.30E-14 >YF_001611605 aldose 1-epimerase [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig3168Proteobacteria-Sorangium_cellulosum_So_ce_56_gi162450991
1.80E-17 >YF_001613358 hypothetical protein sce2719 [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig938Proteobacteria-Sorangium_cellulosum_So_ce_56_gi162451321
1.10E-37 >YF_001613688 putative secreted protein [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig3256Proteobacteria-Sorangium_cellulosum_So_ce_56_gi162451571
1.00E-10 >YF_001613938 latent transforming growth factor beta binding protein [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig2014Proteobacteria-Sorangium_cellulosum_So_ce_56_gi162452868
5.90E-29 >YF_001615235 Alpha-L-arabinofuranosidase precursor [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig1774Proteobacteria-Sorangium_cellulosum_So_ce_56_gi162453251
1.00E-12 >YF_001615618 putative secreted protein [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig2036Proteobacteria-Sorangium_cellulosum_So_ce_56_gi162453650
3.00E-27 >YF_001616017 hypothetical protein sce5374 [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig1951Proteobacteria-Sorangium_cellulosum_So_ce_56_gi162455207
9.40E-68 >YF_001617574 hypothetical protein sce6925 [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig2238Proteobacteria-Sorangium_cellulosum_So_ce_56_gi162455885
2.20E-12 >YF_001618232 hypothetical protein sce7583 [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig7189Proteobacteria-Sorangium_cellulosum_So_ce_56_gi162455895
2.00E-12 >YF_001618252 protein kinase [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig5102Proteobacteria-Sorangium_cellulosum_So_ce_56_gi162456120
1.20E-19 >YF_001618487 hypothetical protein sce7837 [Sorangium cellulosum 'So ce 56'].
ConsensusfromContig5101Proteobacteria-Sphingomonas_japonicum_UT265_gi294011955
8.70E-22 >YF_003545415 protein involved in biosynthesis of mitomycin antibiotics/polyketide fumonisin [Sphingomonas japonicum UT265].
ConsensusfromContig3176Proteobacteria-Sphingomonas_wittichii_RW1_gi148556005
3.10E-11 >YF_001263587 hypothetical protein Swit_3100 [Sphingomonas wittichii RW1].
ConsensusfromContig3039Proteobacteria-Stigmatella_aurantiflava_DW4_3_1_gi115374805
8.70E-18 >ZP_01462080 aminotransferase, class III family [Stigmatella aurantiflava DW4/3-1].
ConsensusfromContig3089Proteobacteria-Teredinibacter_turnerae_T901_gi25478966
6.40E-20 >YF_003073395 aconitate hydratase 2 [Teredinibacter turnerae T901].
ConsensusfromContig5146Proteobacteria-Thioalkalivibrio_sp_K90mix_gi289209458
7.60E-23 >YF_003461524 aminotransferase domain protein [Thioalkalivibrio sp. K90mix].
ConsensusfromContig7056Proteobacteria-Vibrio_harveyi_ATCC_BAA_1116_gi156936742
6.40E-17 >YF_001436093 hypothetical protein VIBHAR_p08226 [Vibrio harveyi ATCC BAA-1116].
ConsensusfromContig1676Proteobacteria-Vibrio_harveyi_ATCC_BAA_1116_gi156978121
8.80E-53 >YF_001449027 esterase [Vibrio harveyi ATCC BAA-1116].
ConsensusfromContig6476Proteobacteria-Vibrio_sp_AND4_gi163803336
2.10E-20 >ZP_02197213 bifunctional aconitate hydratase 2/2-methylisocitrate dehydratase [Vibrio sp. AND4].
ConsensusfromContig1943Proteobacteria-Vibrio_vulnificus_YJ016_gi37678811
5.80E-30 >NP_933420 hypothetical protein VV0627 [Vibrio vulnificus YJ016].
ConsensusfromContig5691Proteobacteria-Wolbachia_endosymbiont_of_Drosophila_ananassae_gi58700186
6.30E-12 >ZP_00374686 ankryrin repeat domain protein [Wolbachia endosymbiont of Drosophila ananassae].
ConsensusfromContig3132Proteobacteria-Wolbachia_endosymbiont_of_Drosophila_willistoni_TSC#14030_081124_gi99035
1.40E-11 >ZP_01314984 hypothetical protein Wendoof_01000169 [Wolbachia endosymbiont of Drosophila willistoni TSC#14030-0811.24].
ConsensusfromContig7398Proteobacteria-Wolbachia_succinogenes_DSM_1740_gi34558454
8.20E-32 >NP_990269 putative sugar nucleotidyltransferase [Wolbachia succinogenes DSM 1740].
ConsensusfromContig6989Proteobacteria-Xanthomonas_abbuianensis_gi285018721
3.30E-24 >YF_003376432 hypothetical protein XALC_1954 [Xanthomonas abbuianensis].
ConsensusfromContig6054Proteobacteria-Xanthomonas_campestris_pv_musacearum_NCPPB4381_gi289671170
1.40E-11 >ZP_04692245 n-cetyl-diaminopimelate desuccinylase [Xanthomonas campestris pv. musacearum NCPPB4381].
ConsensusfromContig2952Proteobacteria-Xanthomonas_oryzae_pv_oryzae_KACC10331_gi58582326
3.10E-20 >ZP_201342 N-succinylammine chlorohydrolase [Xanthomonas oryzae pv. oryzae KACC10331].
ConsensusfromContig7195Proteobacteria-Xylella_fastidiosa_9a5c_gi15837693
1.40E-11 >NP_298381 hypothetical protein XF1091 [Xylella fastidiosa 9a5c].
ConsensusfromContig4896Proteobacteria-Yersinia_kristensenii_ATCC_33638_gi238762250
8.20E-32 >NP_990269 putative sugar nucleotidyltransferase [Yersinia kristensenii ATCC 33638].
ConsensusfromContig4842Proteobacteria-Yersinia_mollaretii_ATCC_43969_gi238798198
5.00E-14 >ZP_04641684 FAD binding-monooxygenase family protein [Yersinia mollaretii ATCC 43969].
ConsensusfromContig2228Proteobacteria-Yersinia_rodnei_ATCC_43380_gi238753114
8.90E-17 >ZP_04614563 LPS glycosyltransferase family protein [Yersinia rodnei ATCC 43380].
ConsensusfromContig2100Rhizaria-Bigelowiella_natans_tbnl00000036_1
5.80E-50
ConsensusfromContig5412Rhizaria-Bigelowiella_natans_tbnl000000530_1
2.60E-23
ConsensusfromContig1085Rhizaria-Bigelowiella_natans_tbnl000000683_3
2.20E-11
ConsensusfromContig1509Rhizaria-Bigelowiella_natans_tbnl000000693_2
5.60E-14
ConsensusfromContig6715Rhizaria-Bigelowiella_natans_tbnl000001108_1
1.60E-11
ConsensusfromContig3984Rhizaria-Bigelowiella_natans_tbnl000001117_2
2.90E-15
ConsensusfromContig2609Rhizaria-Bigelowiella_natans_tbnl000001313_1
1.90E-15
ConsensusfromContig9081Rhizaria-Bigelowiella_natans_tbnl000001498_3
4.50E-11
ConsensusfromContig1939Rhizaria-Bigelowiella_natans_tbnl000001553_3
5.30E-20
ConsensusfromContig2088Rhizaria-Bigelowiella_natans_tbnl000001553_3
7.50E-12
ConsensusfromContig2166Rhizaria-Bigelowiella_natans_tbnl000001864_3
1.30E-16
ConsensusfromContig2196Rhizaria-Paracercomonas_marina_ATCC50319_tbcLL00000123_3
7.00E-90
ConsensusfromContig3316Rhizaria-Paracercomonas_marina_ATCC50319_tbcLL00000488_6
3.30E-19
ConsensusfromContig1940Rhizaria-Reticulomyxa_filosa_esi113375496_2
3.40E-18 >E6664911_33445_re1399_R_filosa cDNA library Reticulomyxa filosa cDNA clone 33445_re1399, mRNA sequence.
ConsensusfromContig2138Rhizaria-Reticulomyxa_filosa_esi113376723_3
6.50E-16 >E6665688_30533_re598_R_filosa cDNA library Reticulomyxa filosa cDNA clone 30533_re598, mRNA sequence.
ConsensusfromContig6108Rhodophyta-Calliarthron_tuberculosum_Idg15701
6.90E-15
ConsensusfromContig5277Rhodophyta-Calliarthron_tuberculosum_Idg17584t1
9.60E-16
ConsensusfromContig2807Rhodophyta-Calliarthron_tuberculosum_Idg20200t1
4.20E-14
ConsensusfromContig7431Rhodophyta-Calliarthron_tuberculosum_Idg22049t1
1.90E-11
ConsensusfromContig7143Rhodophyta-Calliarthron_tuberculosum_Idg23404t1
1.80E-32
ConsensusfromContig1814Rhodophyta-Calliarthron_tuberculosum_Idg2396t1
2.60E-20
ConsensusfromContig3125Rhodophyta-Calliarthron_tuberculosum_Idg2445t1
1.90E-26
ConsensusfromContig5228Rhodophyta-Calliarthron_tuberculosum_Idg2445t1
9.20E-27
ConsensusfromContig5440Rhodophyta-Calliarthron_tuberculosum_Idg2445t1
3.30E-34
ConsensusfromContig3938Rhodophyta-Calliarthron_tuberculosum_Idg2526t1
1.10E-26
ConsensusfromContig2827Rhodophyta-Calliarthron_tuberculosum_Idg3440t1
9.90E-33
ConsensusfromContig5121Rhodophyta-Calliarthron_tuberculosum_Idg4660t1
2.80E-21
ConsensusfromContig5438Rhodophyta-Calliarthron_tuberculosum_Idg4660t1
4.80E-35
ConsensusfromContig1034Rhodophyta-Calliarthron_tuberculosum_Idg619t1
9.40E-41
ConsensusfromContig2785Rhodophyta-Calliarthron_tuberculosum_Idg1093t1
2.20E-11
ConsensusfromContig5774Rhodophyta-Cyanidioschyzon_merolae_CME146C
2.90E-45
ConsensusfromContig1997Rhodophyta-Cyanidioschyzon_merolae_CMJ200C
2.90E-18
ConsensusfromContig5218Rhodophyta-Cyanidioschyzon_merolae_CMK078C
1.90E-59
ConsensusfromContig5152Rhodophyta-Cyanidioschyzon_merolae_CML205C
2.50E-64
ConsensusfromContig5420Rhodophyta-Galdieria_sulphuraria_dx4A5G05_1
7.20E-36
ConsensusfromContig5420Rhodophyta-Galdieria_sulphuraria_dx4A5G05_1
7.20E-36
ConsensusfromContig5349Rhodophyta-Galdieria_sulphuraria_dxHET35E04_2
1.90E-20
ConsensusfromContig3055Rhodophyta-Galdieria_sulphuraria_dxHET37E03_1
7.30E-20
ConsensusfromContig2783Rhodophyta-Galearia_changii_esiCort313_3
8.10E-22
ConsensusfromContig6796Rhodophyta-Galearia_changii_esi120458900_5
9.20E-24 >Dv965948 GC03939 Galearia changii cDNA library Galearia changii cDNA clone HCL_PLATE1_D11_07, mRNA sequence.
ConsensusfromContig3089Rhodophyta-Galearia_changii_esi120461283_2
5.90E-18 >Dv969038 GC07045 Galearia changii cDNA library Galearia changii cDNA clone HCL_PLATE52_F07_11.AB1.seq.noA, mRNA sequence.
ConsensusfromContig6606Rhodophyta-Galearia_changii_esi120463256_2
3.60E-14 >Dv964071 GC02054 Galearia changii cDNA library Galearia changii cDNA clone 157-A05-T3, mRNA sequence.

ConsensusfromContig2003Rhodophyta-Gracilaria_changii_esg120464947_1 2.50E-17 >DV967588 GC05579 Gracilaria changii cDNA library Gracilaria changii cDNA clone HCL_PLATE36_CO2_06, mRNA sequence.
 ConsensusfromContig2996Rhodophyta-Porphyrha_haitanensis_esContig461_1 1.90E-22
 ConsensusfromContig6220Rhodophyta-Porphyrha_haitanensis_esg115287323_1 4.20E-23 >EG016848 EST01558_0906 Sporophyte cDNA Library Porphyrha haitanensis cDNA 5', mRNA sequence.
 ConsensusfromContig3773Rhodophyta-Porphyrha_haitanensis_esg115288425_1 4.20E-23 >EG017950 EST00044_0906 Sporophyte cDNA Library Porphyrha haitanensis cDNA 5', mRNA sequence.
 ConsensusfromContig5437Rhodophyta-Porphyrha_zezoensis_esContig1865_3 8.50E-193
 ConsensusfromContig2381Rhodophyta-Porphyrha_zezoensis_esContig197_2 1.30E-14
 ConsensusfromContig7033Rhodophyta-Porphyrha_zezoensis_esContig264_1 5.10E-39
 ConsensusfromContig3022Rhodophyta-Porphyrha_zezoensis_esContig54_1 7.20E-12
 ConsensusfromContig3061Rhodophyta-Porphyrha_zezoensis_esContig54_1 3.80E-12
 ConsensusfromContig3391Rhodophyta-Porphyrha_zezoensis_esContig54_1 2.50E-12
 ConsensusfromContig3819Rhodophyta-Porphyrha_zezoensis_esContig54_1 2.30E-11
 ConsensusfromContig2385Rhodophyta-Porphyrha_zezoensis_esContig875_3 1.30E-11
 ConsensusfromContig5118Rhodophyta-Porphyrha_zezoensis_esg18590709_2 2.20E-12 >AV435484 AV435484 Porphyrha_zezoensis TU-1 Porphyrha_zezoensis cDNA clone PM058a12_r_5', mRNA sequence.
 ConsensusfromContig2609Rhodophyta-Porphyrha_zezoensis_esg18593856_2 2.30E-14 >AV438631 AV438631 Porphyrha_zezoensis TU-1 Porphyrha_zezoensis cDNA clone PM038h07_r_5', mRNA sequence.
 ConsensusfromContig2678Rhodophyta-Porphyridium_cruentum_dxContig10037_2 3.00E-12
 ConsensusfromContig2322Rhodophyta-Porphyridium_cruentum_dxContig10686_6 5.60E-12
 ConsensusfromContig7258Rhodophyta-Porphyridium_cruentum_dxContig11529_3 5.40E-38
 ConsensusfromContig2795Rhodophyta-Porphyridium_cruentum_dxContig12579_5 1.90E-15
 ConsensusfromContig6992Rhodophyta-Porphyridium_cruentum_dxContig15796_1 5.00E-11
 ConsensusfromContig3246Rhodophyta-Porphyridium_cruentum_dxContig392_3 2.10E-35
 ConsensusfromContig5336Rhodophyta-Porphyridium_cruentum_dxContig4559_1 9.20E-25
 ConsensusfromContig6661Rhodophyta-Porphyridium_cruentum_dxContig4917_1 1.00E-11
 ConsensusfromContig6281Rhodophyta-Porphyridium_cruentum_dxContig5143_4 1.70E-11
 ConsensusfromContig2702Rhodophyta-Porphyridium_cruentum_dxContig5969_6 1.80E-27
 ConsensusfromContig3179Rhodophyta-Porphyridium_cruentum_dxContig5969_6 1.40E-24
 ConsensusfromContig2698Rhodophyta-Porphyridium_cruentum_dxGCDJ7DB01C88X_2 2.60E-16
 ConsensusfromContig5783Rhodophyta-Porphyridium_cruentum_dxGCDJ7DB01DAFE2_1 1.60E-14
 ConsensusfromContig3097Rhodophyta-Porphyridium_cruentum_dxGCDJ7DB01DFHX2_5 4.00E-20
 ConsensusfromContig7140Rhodophyta-Porphyridium_cruentum_dxGCDJ7DB01DXJKR_3 1.20E-23
 ConsensusfromContig4131Rhodophyta-Porphyridium_cruentum_dxGCDJ7DB01ED4LS_2 6.60E-14
 ConsensusfromContig2527Rhodophyta-Porphyridium_cruentum_dxGCDJ7DB01EEM8F_2 8.00E-13
 ConsensusfromContig5408Spirochaetes-Brachyspira_murdochii_DSM_12563_g1296126560 2.30E-82 >YP_003633812 DNA-cytosine methyltransferase [Brachyspira murdochii DSM 12563].
 ConsensusfromContig2061Spirochaetes-Leptosira_biflexa_serovar_Patoc_strain_Patoc_1_Ames_g1189911350 4.40E-18 >YP_001962905 cyclic nucleotide-binding protein [Leptosira biflexa serovar Patoc strain 'Patoc 1 (Ames)'].
 ConsensusfromContig5117Spirochaetes-Leptosira_biflexa_serovar_Patoc_strain_Patoc_1_Ames_g1189911350 2.10E-28 >YP_001962905 cyclic nucleotide-binding protein [Leptosira biflexa serovar Patoc strain 'Patoc 1 (Ames)'].
 ConsensusfromContig6931Spirochaetes-Leptosira_biflexa_serovar_Patoc_strain_Patoc_1_Ames_g1189911350 7.30E-14 >YP_001962905 cyclic nucleotide-binding protein [Leptosira biflexa serovar Patoc strain 'Patoc 1 (Ames)'].
 ConsensusfromContig3638Spirochaetes-Leptosira_biflexa_serovar_Patoc_strain_Patoc_1_Paris_g1183220609 6.80E-26 >YP_001838605 hypothetical protein LEPB1_11215 [Leptosira biflexa serovar Patoc strain 'Patoc 1 (Paris)'].
 ConsensusfromContig3717Spirochaetes-Leptosira_biflexa_serovar_Patoc_strain_Patoc_1_Paris_g1183220609 2.50E-11 >YP_001838605 hypothetical protein LEPB1_11215 [Leptosira biflexa serovar Patoc strain 'Patoc 1 (Paris)'].
 ConsensusfromContig2951Spirochaetes-Leptosira_biflexa_serovar_Patoc_strain_Patoc_1_Paris_g1183220609 1.80E-14 >YP_001838605 hypothetical protein LEPB1_11215 [Leptosira biflexa serovar Patoc strain 'Patoc 1 (Paris)'].
 ConsensusfromContig4310Spirochaetes-Leptosira_biflexa_serovar_Patoc_strain_Patoc_1_Paris_g1183220609 4.30E-16 >YP_001838605 hypothetical protein LEPB1_11215 [Leptosira biflexa serovar Patoc strain 'Patoc 1 (Paris)'].
 ConsensusfromContig6197Spirochaetes-Leptosira_interrogans_serovar_Lai_str_56601_g124213817 9.50E-17 >NP_711298 hypothetical protein LA_1118 [Leptosira interrogans serovar Lai str. 56601].
 ConsensusfromContig2503Stramenopiles-Aureococcus_anophagefferens_jg110217 4.80E-51
 ConsensusfromContig2395Stramenopiles-Aureococcus_anophagefferens_jg110939 6.40E-18
 ConsensusfromContig5358Stramenopiles-Aureococcus_anophagefferens_jg112663 1.20E-13
 ConsensusfromContig5121Stramenopiles-Aureococcus_anophagefferens_jg112804 2.10E-127
 ConsensusfromContig4338Stramenopiles-Aureococcus_anophagefferens_jg112951 2.60E-13
 ConsensusfromContig5219Stramenopiles-Aureococcus_anophagefferens_jg114200 3.40E-48
 ConsensusfromContig2951Stramenopiles-Aureococcus_anophagefferens_jg116 1.80E-21
 ConsensusfromContig2039Stramenopiles-Aureococcus_anophagefferens_jg118666 7.00E-26
 ConsensusfromContig6931Stramenopiles-Aureococcus_anophagefferens_jg118923 4.20E-46
 ConsensusfromContig1940Stramenopiles-Aureococcus_anophagefferens_jg119213 3.80E-13
 ConsensusfromContig782 Stramenopiles-Aureococcus_anophagefferens_jg119576 8.50E-11
 ConsensusfromContig6870Stramenopiles-Aureococcus_anophagefferens_jg119876 1.10E-14
 ConsensusfromContig6852Stramenopiles-Aureococcus_anophagefferens_jg121131 1.00E-26
 ConsensusfromContig2761Stramenopiles-Aureococcus_anophagefferens_jg121146 8.60E-24
 ConsensusfromContig5946Stramenopiles-Aureococcus_anophagefferens_jg121841 8.10E-25
 ConsensusfromContig1355Stramenopiles-Aureococcus_anophagefferens_jg123523 1.10E-12
 ConsensusfromContig3673Stramenopiles-Aureococcus_anophagefferens_jg123523 6.90E-17
 ConsensusfromContig5954Stramenopiles-Aureococcus_anophagefferens_jg12359 3.50E-34
 ConsensusfromContig4138Stramenopiles-Aureococcus_anophagefferens_jg123593 1.90E-17
 ConsensusfromContig2132Stramenopiles-Aureococcus_anophagefferens_jg123831 3.20E-43
 ConsensusfromContig2803Stramenopiles-Aureococcus_anophagefferens_jg124160 2.40E-60
 ConsensusfromContig6966Stramenopiles-Aureococcus_anophagefferens_jg125028 5.00E-11
 ConsensusfromContig3050Stramenopiles-Aureococcus_anophagefferens_jg12521 5.70E-29
 ConsensusfromContig3155Stramenopiles-Aureococcus_anophagefferens_jg125371 2.30E-25
 ConsensusfromContig5224Stramenopiles-Aureococcus_anophagefferens_jg126320 1.50E-12
 ConsensusfromContig2230Stramenopiles-Aureococcus_anophagefferens_jg126908 2.00E-24
 ConsensusfromContig1335Stramenopiles-Aureococcus_anophagefferens_jg127315 3.50E-20
 ConsensusfromContig2221Stramenopiles-Aureococcus_anophagefferens_jg127787 3.80E-16
 ConsensusfromContig1059Stramenopiles-Aureococcus_anophagefferens_jg127794 3.40E-15
 ConsensusfromContig1909Stramenopiles-Aureococcus_anophagefferens_jg127862 3.80E-14
 ConsensusfromContig5421Stramenopiles-Aureococcus_anophagefferens_jg127956 7.00E-82
 ConsensusfromContig1594Stramenopiles-Aureococcus_anophagefferens_jg128349 1.50E-14
 ConsensusfromContig2437Stramenopiles-Aureococcus_anophagefferens_jg128349 3.40E-15
 ConsensusfromContig5165Stramenopiles-Aureococcus_anophagefferens_jg128349 1.40E-39
 ConsensusfromContig5101Stramenopiles-Aureococcus_anophagefferens_jg128381 1.60E-60
 ConsensusfromContig3071Stramenopiles-Aureococcus_anophagefferens_jg128918 8.10E-40
 ConsensusfromContig3947Stramenopiles-Aureococcus_anophagefferens_jg129612 1.80E-28
 ConsensusfromContig2995Stramenopiles-Aureococcus_anophagefferens_jg129805 1.20E-12
 ConsensusfromContig5273Stramenopiles-Aureococcus_anophagefferens_jg129980 1.30E-63
 ConsensusfromContig3143Stramenopiles-Aureococcus_anophagefferens_jg130070 1.70E-102
 ConsensusfromContig5165Stramenopiles-Aureococcus_anophagefferens_jg130278 2.20E-30
 ConsensusfromContig5096Stramenopiles-Aureococcus_anophagefferens_jg130696 3.40E-11
 ConsensusfromContig5152Stramenopiles-Aureococcus_anophagefferens_jg133640 1.50E-52
 ConsensusfromContig6922Stramenopiles-Aureococcus_anophagefferens_jg134330 3.20E-11
 ConsensusfromContig2748Stramenopiles-Aureococcus_anophagefferens_jg139152 8.80E-12
 ConsensusfromContig1522Stramenopiles-Aureococcus_anophagefferens_jg139233 1.90E-11
 ConsensusfromContig1158Stramenopiles-Aureococcus_anophagefferens_jg14638 3.10E-43
 ConsensusfromContig7292Stramenopiles-Aureococcus_anophagefferens_jg14752 2.20E-11
 ConsensusfromContig2262Stramenopiles-Aureococcus_anophagefferens_jg15150 5.40E-54
 ConsensusfromContig1092Stramenopiles-Aureococcus_anophagefferens_jg152627 3.80E-53
 ConsensusfromContig1079Stramenopiles-Aureococcus_anophagefferens_jg153176 1.30E-16
 ConsensusfromContig5155Stramenopiles-Aureococcus_anophagefferens_jg153176 2.20E-86
 ConsensusfromContig5159Stramenopiles-Aureococcus_anophagefferens_jg153176 9.90E-45
 ConsensusfromContig7040Stramenopiles-Aureococcus_anophagefferens_jg153176 1.30E-51
 ConsensusfromContig2366Stramenopiles-Aureococcus_anophagefferens_jg158625 2.20E-24
 ConsensusfromContig2192Stramenopiles-Aureococcus_anophagefferens_jg159335 3.10E-23
 ConsensusfromContig2230Stramenopiles-Aureococcus_anophagefferens_jg160103 1.40E-47
 ConsensusfromContig7393Stramenopiles-Aureococcus_anophagefferens_jg160295 5.00E-12
 ConsensusfromContig1998Stramenopiles-Aureococcus_anophagefferens_jg160648 3.50E-40

ConsensusfromContig6986Stramenopiles-Aureococcus_anophagefferens_jgi60668	1.10E-44
ConsensusfromContig2635Stramenopiles-Aureococcus_anophagefferens_jgi60794	8.20E-23
ConsensusfromContig4016Stramenopiles-Aureococcus_anophagefferens_jgi60794	1.00E-18
ConsensusfromContig6959Stramenopiles-Aureococcus_anophagefferens_jgi60794	4.40E-42
ConsensusfromContig5182Stramenopiles-Aureococcus_anophagefferens_jgi60815	5.20E-13
ConsensusfromContig884Stramenopiles-Aureococcus_anophagefferens_jgi60931	9.20E-68
ConsensusfromContig6470Stramenopiles-Aureococcus_anophagefferens_jgi60931	1.30E-15
ConsensusfromContig2370Stramenopiles-Aureococcus_anophagefferens_jgi60984	7.70E-11
ConsensusfromContig5116Stramenopiles-Aureococcus_anophagefferens_jgi61008	1.20E-32
ConsensusfromContig5959Stramenopiles-Aureococcus_anophagefferens_jgi6107	1.70E-26
ConsensusfromContig1996Stramenopiles-Aureococcus_anophagefferens_jgi61180	1.10E-14
ConsensusfromContig6936Stramenopiles-Aureococcus_anophagefferens_jgi61364	7.00E-11
ConsensusfromContig1308Stramenopiles-Aureococcus_anophagefferens_jgi61422	2.00E-21
ConsensusfromContig3393Stramenopiles-Aureococcus_anophagefferens_jgi61422	9.50E-11
ConsensusfromContig5215Stramenopiles-Aureococcus_anophagefferens_jgi6143	9.80E-55
ConsensusfromContig2023Stramenopiles-Aureococcus_anophagefferens_jgi61721	1.10E-27
ConsensusfromContig6940Stramenopiles-Aureococcus_anophagefferens_jgi61870	8.60E-11
ConsensusfromContig5100Stramenopiles-Aureococcus_anophagefferens_jgi62035	2.00E-13
ConsensusfromContig1947Stramenopiles-Aureococcus_anophagefferens_jgi62507	9.50E-13
ConsensusfromContig2173Stramenopiles-Aureococcus_anophagefferens_jgi62513	3.60E-18
ConsensusfromContig5153Stramenopiles-Aureococcus_anophagefferens_jgi62551	3.30E-24
ConsensusfromContig7781Stramenopiles-Aureococcus_anophagefferens_jgi63054	3.70E-12
ConsensusfromContig3910Stramenopiles-Aureococcus_anophagefferens_jgi63054	7.90E-57
ConsensusfromContig3910Stramenopiles-Aureococcus_anophagefferens_jgi63054	7.90E-57
ConsensusfromContig1072Stramenopiles-Aureococcus_anophagefferens_jgi63286	2.50E-11
ConsensusfromContig2467Stramenopiles-Aureococcus_anophagefferens_jgi63286	2.80E-12
ConsensusfromContig2018Stramenopiles-Aureococcus_anophagefferens_jgi63340	1.50E-18
ConsensusfromContig2054Stramenopiles-Aureococcus_anophagefferens_jgi63340	4.70E-26
ConsensusfromContig4845Stramenopiles-Aureococcus_anophagefferens_jgi63340	5.10E-24
ConsensusfromContig1977Stramenopiles-Aureococcus_anophagefferens_jgi63520	3.30E-24
ConsensusfromContig1951Stramenopiles-Aureococcus_anophagefferens_jgi63581	4.20E-14
ConsensusfromContig5395Stramenopiles-Aureococcus_anophagefferens_jgi63946	1.10E-33
ConsensusfromContig7069Stramenopiles-Aureococcus_anophagefferens_jgi63946	6.00E-30
ConsensusfromContig1998Stramenopiles-Aureococcus_anophagefferens_jgi64125	4.30E-50
ConsensusfromContig2069Stramenopiles-Aureococcus_anophagefferens_jgi64125	1.20E-18
ConsensusfromContig3122Stramenopiles-Aureococcus_anophagefferens_jgi64125	6.20E-23
ConsensusfromContig1763Stramenopiles-Aureococcus_anophagefferens_jgi64764	6.70E-11
ConsensusfromContig2412Stramenopiles-Aureococcus_anophagefferens_jgi64808	8.60E-11
ConsensusfromContig5110Stramenopiles-Aureococcus_anophagefferens_jgi64808	9.20E-39
ConsensusfromContig2094Stramenopiles-Aureococcus_anophagefferens_jgi64875	4.90E-32
ConsensusfromContig5151Stramenopiles-Aureococcus_anophagefferens_jgi64875	5.50E-51
ConsensusfromContig1356Stramenopiles-Aureococcus_anophagefferens_jgi64885	6.40E-16
ConsensusfromContig4879Stramenopiles-Aureococcus_anophagefferens_jgi64885	1.50E-11
ConsensusfromContig1210Stramenopiles-Aureococcus_anophagefferens_jgi64968	8.60E-13
ConsensusfromContig6294Stramenopiles-Aureococcus_anophagefferens_jgi64968	2.70E-15
ConsensusfromContig2155Stramenopiles-Aureococcus_anophagefferens_jgi6503	5.90E-18
ConsensusfromContig6936Stramenopiles-Aureococcus_anophagefferens_jgi65133	4.30E-44
ConsensusfromContig1114Stramenopiles-Aureococcus_anophagefferens_jgi65313	4.50E-14
ConsensusfromContig1114Stramenopiles-Aureococcus_anophagefferens_jgi65313	4.50E-14
ConsensusfromContig2271Stramenopiles-Aureococcus_anophagefferens_jgi65313	6.00E-29
ConsensusfromContig2300Stramenopiles-Aureococcus_anophagefferens_jgi65313	1.00E-12
ConsensusfromContig2016Stramenopiles-Aureococcus_anophagefferens_jgi65636	1.50E-31
ConsensusfromContig6931Stramenopiles-Aureococcus_anophagefferens_jgi65638	1.10E-11
ConsensusfromContig5781Stramenopiles-Aureococcus_anophagefferens_jgi6566	2.50E-18
ConsensusfromContig3246Stramenopiles-Aureococcus_anophagefferens_jgi65813	9.60E-11
ConsensusfromContig5198Stramenopiles-Aureococcus_anophagefferens_jgi66027	7.20E-30
ConsensusfromContig7022Stramenopiles-Aureococcus_anophagefferens_jgi66270	1.00E-65
ConsensusfromContig1936Stramenopiles-Aureococcus_anophagefferens_jgi66355	6.70E-47
ConsensusfromContig2260Stramenopiles-Aureococcus_anophagefferens_jgi66355	1.50E-21
ConsensusfromContig4706Stramenopiles-Aureococcus_anophagefferens_jgi67187	1.10E-16
ConsensusfromContig2907Stramenopiles-Aureococcus_anophagefferens_jgi67214	4.20E-23
ConsensusfromContig1895Stramenopiles-Aureococcus_anophagefferens_jgi67274	8.70E-11
ConsensusfromContig5364Stramenopiles-Aureococcus_anophagefferens_jgi67681	5.90E-19
ConsensusfromContig5198Stramenopiles-Aureococcus_anophagefferens_jgi67726	3.10E-13
ConsensusfromContig3141Stramenopiles-Aureococcus_anophagefferens_jgi67882	7.30E-43
ConsensusfromContig2335Stramenopiles-Aureococcus_anophagefferens_jgi67925	4.50E-19
ConsensusfromContig5113Stramenopiles-Aureococcus_anophagefferens_jgi67937	3.80E-18
ConsensusfromContig2085Stramenopiles-Aureococcus_anophagefferens_jgi67940	7.20E-19
ConsensusfromContig6987Stramenopiles-Aureococcus_anophagefferens_jgi68050	4.90E-24
ConsensusfromContig3397Stramenopiles-Aureococcus_anophagefferens_jgi68595	5.60E-14
ConsensusfromContig2252Stramenopiles-Aureococcus_anophagefferens_jgi68860	1.10E-11
ConsensusfromContig2047Stramenopiles-Aureococcus_anophagefferens_jgi68993	7.40E-17
ConsensusfromContig2272Stramenopiles-Aureococcus_anophagefferens_jgi68993	3.50E-22
ConsensusfromContig9003Stramenopiles-Aureococcus_anophagefferens_jgi69060	7.20E-12
ConsensusfromContig1326Stramenopiles-Aureococcus_anophagefferens_jgi69603	1.30E-14
ConsensusfromContig6305Stramenopiles-Aureococcus_anophagefferens_jgi70731	2.40E-21
ConsensusfromContig2548Stramenopiles-Aureococcus_anophagefferens_jgi70872	2.50E-14
ConsensusfromContig2031Stramenopiles-Aureococcus_anophagefferens_jgi71496	1.40E-19
ConsensusfromContig5163Stramenopiles-Aureococcus_anophagefferens_jgi71885	5.00E-25
ConsensusfromContig5173Stramenopiles-Aureococcus_anophagefferens_jgi71885	5.50E-22
ConsensusfromContig3140Stramenopiles-Aureococcus_anophagefferens_jgi71909	5.00E-23
ConsensusfromContig5310Stramenopiles-Aureococcus_anophagefferens_jgi72156	2.10E-28
ConsensusfromContig2273Stramenopiles-Aureococcus_anophagefferens_jgi72622	7.80E-16
ConsensusfromContig2892Stramenopiles-Aureococcus_anophagefferens_jgi72622	1.60E-30
ConsensusfromContig7331Stramenopiles-Aureococcus_anophagefferens_jgi72622	2.30E-26
ConsensusfromContig1989Stramenopiles-Aureococcus_anophagefferens_jgi72645	2.00E-54
ConsensusfromContig2325Stramenopiles-Aureococcus_anophagefferens_jgi72645	9.40E-18
ConsensusfromContig5402Stramenopiles-Aureococcus_anophagefferens_jgi72645	9.90E-12
ConsensusfromContig2337Stramenopiles-Aureococcus_anophagefferens_jgi72703	4.30E-27
ConsensusfromContig988Stramenopiles-Aureococcus_anophagefferens_jgi72852	2.50E-22
ConsensusfromContig3140Stramenopiles-Aureococcus_anophagefferens_jgi72852	2.90E-14
ConsensusfromContig1936Stramenopiles-Aureococcus_anophagefferens_jgi7935	1.30E-46
ConsensusfromContig6909Stramenopiles-Aureococcus_anophagefferens_jgi8334	2.20E-11
ConsensusfromContig2900Stramenopiles-Blastocystis_hominis_tdBHL00001929_2	2.50E-16
ConsensusfromContig2900Stramenopiles-Blastocystis_hominis_tdBHL00001929_2	2.50E-16
ConsensusfromContig2402Stramenopiles-Fragilariopsis_cylindrus_jgi149139	1.30E-23
ConsensusfromContig5439Stramenopiles-Fragilariopsis_cylindrus_jgi163983	1.90E-12
ConsensusfromContig6636Stramenopiles-Fragilariopsis_cylindrus_jgi166097	7.10E-13
ConsensusfromContig5163Stramenopiles-Fragilariopsis_cylindrus_jgi17704	1.70E-28
ConsensusfromContig2077Stramenopiles-Fragilariopsis_cylindrus_jgi187472	1.50E-52

ConsensusfromContig6142Stramenopiles-Fragilariopsis_cylindrus_ggi187472	3.60E-25	
ConsensusfromContig2400Stramenopiles-Fragilariopsis_cylindrus_ggi191111	1.30E-11	
ConsensusfromContig5146Stramenopiles-Fragilariopsis_cylindrus_ggi196614	1.30E-21	
ConsensusfromContig6387Stramenopiles-Fragilariopsis_cylindrus_ggi207688	1.50E-11	
ConsensusfromContig5108Stramenopiles-Fragilariopsis_cylindrus_ggi219434	4.50E-19	
ConsensusfromContig3763Stramenopiles-Fragilariopsis_cylindrus_ggi224808	5.90E-29	
ConsensusfromContig3763Stramenopiles-Fragilariopsis_cylindrus_ggi224808	5.90E-29	
ConsensusfromContig3005Stramenopiles-Fragilariopsis_cylindrus_ggi225275	1.00E-17	
ConsensusfromContig2761Stramenopiles-Fragilariopsis_cylindrus_ggi228566	8.10E-16	
ConsensusfromContig1830Stramenopiles-Fragilariopsis_cylindrus_ggi228695	6.20E-11	
ConsensusfromContig2118Stramenopiles-Fragilariopsis_cylindrus_ggi232497	4.60E-37	
ConsensusfromContig2090Stramenopiles-Fragilariopsis_cylindrus_ggi232650	1.60E-12	
ConsensusfromContig2099Stramenopiles-Fragilariopsis_cylindrus_ggi234116	5.20E-43	
ConsensusfromContig5375Stramenopiles-Fragilariopsis_cylindrus_ggi234116	1.60E-16	
ConsensusfromContig767Stramenopiles-Fragilariopsis_cylindrus_ggi234336	4.70E-31	
ConsensusfromContig2763Stramenopiles-Fragilariopsis_cylindrus_ggi234336	1.10E-24	
ConsensusfromContig4411Stramenopiles-Fragilariopsis_cylindrus_ggi234336	1.90E-11	
ConsensusfromContig6405Stramenopiles-Fragilariopsis_cylindrus_ggi234764	6.30E-11	
ConsensusfromContig2111Stramenopiles-Fragilariopsis_cylindrus_ggi238110	3.60E-50	
ConsensusfromContig2035Stramenopiles-Fragilariopsis_cylindrus_ggi243335	3.60E-98	
ConsensusfromContig1948Stramenopiles-Fragilariopsis_cylindrus_ggi247245	4.60E-13	
ConsensusfromContig3124Stramenopiles-Fragilariopsis_cylindrus_ggi248830	2.30E-37	
ConsensusfromContig3370Stramenopiles-Fragilariopsis_cylindrus_ggi249362	1.40E-44	
ConsensusfromContig2150Stramenopiles-Fragilariopsis_cylindrus_ggi259247	8.90E-14	
ConsensusfromContig6696Stramenopiles-Fragilariopsis_cylindrus_ggi259666	2.40E-20	
ConsensusfromContig6696Stramenopiles-Fragilariopsis_cylindrus_ggi259666	2.40E-20	
ConsensusfromContig2115Stramenopiles-Fragilariopsis_cylindrus_ggi259847	3.40E-15	
ConsensusfromContig3406Stramenopiles-Fragilariopsis_cylindrus_ggi260621	1.20E-14	
ConsensusfromContig1587Stramenopiles-Fragilariopsis_cylindrus_ggi260637	1.40E-17	
ConsensusfromContig2213Stramenopiles-Fragilariopsis_cylindrus_ggi261883	6.80E-12	
ConsensusfromContig5705Stramenopiles-Fragilariopsis_cylindrus_ggi262908	2.00E-23	
ConsensusfromContig7044Stramenopiles-Fragilariopsis_cylindrus_ggi262908	3.10E-26	
ConsensusfromContig2778Stramenopiles-Fragilariopsis_cylindrus_ggi269973	3.40E-20	
ConsensusfromContig6303Stramenopiles-Fragilariopsis_cylindrus_ggi274417	7.30E-17	
ConsensusfromContig3150Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219110117	6.70E-17	>XP_002176810 arylsulfatase [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig3150Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219110117	6.70E-17	>XP_002176810 arylsulfatase [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig1497Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219110419	4.50E-23	>XP_002176961 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig6089Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219112549	3.50E-41	>XP_002178026 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig5401Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219116084	2.80E-13	>XP_002178837 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig1974Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219116811	5.00E-12	>XP_002179200 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig2115Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219117666	2.30E-28	>XP_002179624 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig2004Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219117689	3.40E-27	>XP_002179635 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig3138Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219118567	4.20E-15	>XP_002180053 silent information regulator protein Sir2 [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig7101Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219119139	8.20E-30	>XP_002180336 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig2040Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219119328	1.30E-33	>XP_002180427 galactosyl transferase [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig2415Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219123837	7.70E-13	>XP_002182223 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig1800Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219125393	2.70E-24	>XP_002183438 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig5122Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219126613	2.00E-75	>XP_002183547 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig1983Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219130619	3.00E-13	>XP_002185459 predicted protein [Phaeodactylum tricornutum CCAP 1055/1].
ConsensusfromContig7207Stramenopiles-Phytophthora_brassicae_esContig1252_1	1.80E-32	
ConsensusfromContig8449Stramenopiles-Phytophthora_brassicae_esContig1888_1	1.40E-35	
ConsensusfromContig8055Stramenopiles-Phytophthora_brassicae_esContig290_2	8.40E-14	
ConsensusfromContig6628Stramenopiles-Phytophthora_brassicae_esgi144591313_2	6.30E-13	>ES281650 PP022G05.XT7 non-sporulating culture of P. brassicae Phytophthora brassicae cDNA, mRNA sequence.
ConsensusfromContig1975Stramenopiles-Phytophthora_brassicae_esgi144592214_3	2.10E-35	>ES282551 PP4.T7X.H01 non-sporulating culture of P. brassicae Phytophthora brassicae cDNA, mRNA sequence.
ConsensusfromContig6941Stramenopiles-Phytophthora_brassicae_esgi144597094_2	8.70E-94	>ES287431 PT034C08.XT7 in vitro interaction, P. brassicae Phytophthora brassicae cDNA, mRNA sequence.
ConsensusfromContig2302Stramenopiles-Phytophthora_capsici_ggi107594	3.90E-12	
ConsensusfromContig2498Stramenopiles-Phytophthora_capsici_ggi109685	7.50E-32	
ConsensusfromContig6697Stramenopiles-Phytophthora_capsici_ggi112967	4.80E-18	
ConsensusfromContig5432Stramenopiles-Phytophthora_capsici_ggi113866	1.30E-25	
ConsensusfromContig5721Stramenopiles-Phytophthora_capsici_ggi115021	7.80E-90	
ConsensusfromContig5417Stramenopiles-Phytophthora_capsici_ggi115180	2.00E-23	
ConsensusfromContig1868Stramenopiles-Phytophthora_capsici_ggi115893	3.10E-15	
ConsensusfromContig7376Stramenopiles-Phytophthora_capsici_ggi123360	7.40E-19	
ConsensusfromContig5144Stramenopiles-Phytophthora_capsici_ggi124370	1.90E-48	
ConsensusfromContig5169Stramenopiles-Phytophthora_capsici_ggi20194	2.50E-20	
ConsensusfromContig1941Stramenopiles-Phytophthora_capsici_ggi20394	1.20E-33	
ConsensusfromContig3127Stramenopiles-Phytophthora_capsici_ggi20394	1.20E-30	
ConsensusfromContig3127Stramenopiles-Phytophthora_capsici_ggi21318	3.20E-13	
ConsensusfromContig3146Stramenopiles-Phytophthora_capsici_ggi21318	6.30E-16	
ConsensusfromContig2492Stramenopiles-Phytophthora_capsici_ggi24540	6.50E-15	
ConsensusfromContig5127Stramenopiles-Phytophthora_capsici_ggi24562	7.80E-77	
ConsensusfromContig3569Stramenopiles-Phytophthora_capsici_ggi27789	2.60E-15	
ConsensusfromContig2149Stramenopiles-Phytophthora_capsici_ggi3288	3.40E-11	
ConsensusfromContig1403Stramenopiles-Phytophthora_capsici_ggi34217	1.50E-11	
ConsensusfromContig3308Stramenopiles-Phytophthora_capsici_ggi599	8.00E-23	
ConsensusfromContig1545Stramenopiles-Phytophthora_capsici_ggi71568	2.20E-15	
ConsensusfromContig2232Stramenopiles-Phytophthora_capsici_ggi73057	3.40E-26	
ConsensusfromContig1964Stramenopiles-Phytophthora_capsici_ggi76252	9.25E-12	
ConsensusfromContig7122Stramenopiles-Phytophthora_capsici_ggi76252	9.90E-17	
ConsensusfromContig2772Stramenopiles-Phytophthora_capsici_ggi832	3.80E-25	
ConsensusfromContig2812Stramenopiles-Phytophthora_capsici_ggi832	1.40E-24	
ConsensusfromContig1943Stramenopiles-Phytophthora_capsici_ggi89700	5.70E-12	
ConsensusfromContig3170Stramenopiles-Phytophthora_capsici_ggi89700	5.50E-32	
ConsensusfromContig7462Stramenopiles-Phytophthora_parasitica_esgi222389680_4	3.80E-19	>FK934669 ppo3h07c08t.1 Phytophthora parasitica appressorium cDNA library Phytophthora parasitica cDNA, mRNA sequence.
ConsensusfromContig6956Stramenopiles-Phytophthora_parasitica_esgi222413723_2	5.10E-12	>FK936523 ppo3h1n24t.1 Phytophthora parasitica appressorium cDNA library Phytophthora parasitica cDNA, mRNA sequence.
ConsensusfromContig5354Stramenopiles-Phytophthora_parasitica_esgi68417099_1	6.60E-11	>DR439022 EST149_28_G08_T3 myc-149 Phytophthora parasitica cDNA clone EST149_28_G08_5', mRNA sequence.
ConsensusfromContig2348Stramenopiles-Phytophthora_parasitica_esgi68419409_3	2.10E-21	>DR440922 EST149_28_B05_T3 myc-149 Phytophthora parasitica cDNA clone EST149_28_B05_5', mRNA sequence.
ConsensusfromContig1522Stramenopiles-Phytophthora_ramosum_ggi38850	2.50E-14	
ConsensusfromContig4072Stramenopiles-Phytophthora_ramosum_ggi38850	6.60E-14	
ConsensusfromContig6804Stramenopiles-Phytophthora_ramosum_ggi38850	3.50E-16	
ConsensusfromContig7189Stramenopiles-Phytophthora_ramosum_ggi40214	2.20E-16	
ConsensusfromContig1953Stramenopiles-Phytophthora_ramosum_ggi50480	8.10E-25	
ConsensusfromContig1960Stramenopiles-Phytophthora_ramosum_ggi50564	1.00E-82	
ConsensusfromContig6979Stramenopiles-Phytophthora_ramosum_ggi71021	3.80E-30	
ConsensusfromContig5408Stramenopiles-Phytophthora_ramosum_ggi72143	1.70E-28	
ConsensusfromContig5224Stramenopiles-Phytophthora_ramosum_ggi72460	3.30E-83	
ConsensusfromContig1041Stramenopiles-Phytophthora_ramosum_ggi72686	3.30E-37	
ConsensusfromContig3142Stramenopiles-Phytophthora_ramosum_ggi75833	5.50E-19	
ConsensusfromContig6348Stramenopiles-Phytophthora_ramosum_ggi75891	1.80E-25	

ConsensusfromContig6966Stramenopiles-Phytophthora_ramorum_jgi75991	4.70E-27	
ConsensusfromContig6940Stramenopiles-Phytophthora_ramorum_jgi76087	2.60E-05	
ConsensusfromContig1953Stramenopiles-Phytophthora_ramorum_jgi76511	4.30E-46	
ConsensusfromContig5435Stramenopiles-Phytophthora_ramorum_jgi77422	1.10E-15	
ConsensusfromContig2000Stramenopiles-Phytophthora_ramorum_jgi78419	2.40E-27	
ConsensusfromContig2017Stramenopiles-Phytophthora_ramorum_jgi82804	7.90E-02	
ConsensusfromContig5129Stramenopiles-Phytophthora_ramorum_jgi83738	6.90E-15	
ConsensusfromContig5240Stramenopiles-Phytophthora_ramorum_jgi84155	2.50E-28	
ConsensusfromContig1944Stramenopiles-Phytophthora_ramorum_jgi84487	1.60E-35	
ConsensusfromContig1822Stramenopiles-Phytophthora_ramorum_jgi84788	1.70E-12	
ConsensusfromContig4035Stramenopiles-Phytophthora_ramorum_jgi85980	1.40E-13	
ConsensusfromContig2420Stramenopiles-Phytophthora_ramorum_jgi86730	9.40E-21	
ConsensusfromContig5227Stramenopiles-Phytophthora_ramorum_jgi94226	2.60E-27	
ConsensusfromContig6308Stramenopiles-Phytophthora_ramorum_jgi94629	1.70E-23	
ConsensusfromContig6970Stramenopiles-Phytophthora_ramorum_jgi95519	1.10E-13	
ConsensusfromContig2408Stramenopiles-Phytophthora_ramorum_jgi96407	1.30E-17	
ConsensusfromContig923 Stramenopiles-Phytophthora_ramorum_jgi96955	6.60E-28	
ConsensusfromContig5168Stramenopiles-Phytophthora_sojae_jgi108418	2.50E-22	
ConsensusfromContig1307Stramenopiles-Phytophthora_sojae_jgi108909	2.60E-15	
ConsensusfromContig1307Stramenopiles-Phytophthora_sojae_jgi108909	2.60E-15	
ConsensusfromContig3528Stramenopiles-Phytophthora_sojae_jgi109096	2.30E-32	
ConsensusfromContig3528Stramenopiles-Phytophthora_sojae_jgi109096	2.30E-32	
ConsensusfromContig2579Stramenopiles-Phytophthora_sojae_jgi109150	1.60E-24	
ConsensusfromContig5531Stramenopiles-Phytophthora_sojae_jgi109310	4.00E-14	
ConsensusfromContig3083Stramenopiles-Phytophthora_sojae_jgi109343	1.70E-26	
ConsensusfromContig3135Stramenopiles-Phytophthora_sojae_jgi109738	2.70E-13	
ConsensusfromContig3123Stramenopiles-Phytophthora_sojae_jgi110545	3.20E-49	
ConsensusfromContig3123Stramenopiles-Phytophthora_sojae_jgi110545	3.20E-49	
ConsensusfromContig2544Stramenopiles-Phytophthora_sojae_jgi112609	3.80E-11	
ConsensusfromContig2741Stramenopiles-Phytophthora_sojae_jgi120578	1.50E-21	
ConsensusfromContig2089Stramenopiles-Phytophthora_sojae_jgi120633	7.60E-53	
ConsensusfromContig6478Stramenopiles-Phytophthora_sojae_jgi123290	5.90E-33	
ConsensusfromContig1983Stramenopiles-Phytophthora_sojae_jgi127244	1.90E-47	
ConsensusfromContig6071Stramenopiles-Phytophthora_sojae_jgi127490	4.60E-56	
ConsensusfromContig679 Stramenopiles-Phytophthora_sojae_jgi127522	1.50E-37	
ConsensusfromContig2480Stramenopiles-Phytophthora_sojae_jgi127909	3.10E-33	
ConsensusfromContig5123Stramenopiles-Phytophthora_sojae_jgi128237	7.20E-39	
ConsensusfromContig3074Stramenopiles-Phytophthora_sojae_jgi128674	1.70E-12	
ConsensusfromContig1954Stramenopiles-Phytophthora_sojae_jgi128698	1.20E-31	
ConsensusfromContig3155Stramenopiles-Phytophthora_sojae_jgi131304	9.20E-20	
ConsensusfromContig3432Stramenopiles-Phytophthora_sojae_jgi131304	6.70E-16	
ConsensusfromContig5206Stramenopiles-Phytophthora_sojae_jgi131304	5.90E-47	
ConsensusfromContig5206Stramenopiles-Phytophthora_sojae_jgi131304	5.90E-47	
ConsensusfromContig1962Stramenopiles-Phytophthora_sojae_jgi132210	2.20E-63	
ConsensusfromContig2941Stramenopiles-Phytophthora_sojae_jgi133266	3.40E-14	
ConsensusfromContig1967Stramenopiles-Phytophthora_sojae_jgi134863	8.70E-24	
ConsensusfromContig2283Stramenopiles-Phytophthora_sojae_jgi134881	1.40E-53	
ConsensusfromContig2558Stramenopiles-Phytophthora_sojae_jgi134881	3.50E-13	
ConsensusfromContig3132Stramenopiles-Phytophthora_sojae_jgi136047	2.40E-65	
ConsensusfromContig8065Stramenopiles-Phytophthora_sojae_jgi136424	2.20E-15	
ConsensusfromContig6922Stramenopiles-Phytophthora_sojae_jgi137106	1.50E-53	
ConsensusfromContig3763Stramenopiles-Phytophthora_sojae_jgi137435	1.60E-18	
ConsensusfromContig5130Stramenopiles-Phytophthora_sojae_jgi138056	6.20E-29	
ConsensusfromContig5846Stramenopiles-Phytophthora_sojae_jgi139358	1.60E-18	
ConsensusfromContig1998Stramenopiles-Phytophthora_sojae_jgi139928	1.90E-46	
ConsensusfromContig5294Stramenopiles-Phytophthora_sojae_jgi139928	2.30E-18	
ConsensusfromContig3086Stramenopiles-Phytophthora_sojae_jgi140134	3.40E-22	
ConsensusfromContig3086Stramenopiles-Phytophthora_sojae_jgi140134	3.40E-22	
ConsensusfromContig1976Stramenopiles-Phytophthora_sojae_jgi140978	7.20E-22	
ConsensusfromContig7006Stramenopiles-Phytophthora_sojae_jgi141480	1.40E-21	
ConsensusfromContig4789Stramenopiles-Phytophthora_sojae_jgi141842	7.10E-12	
ConsensusfromContig7019Stramenopiles-Phytophthora_sojae_jgi142568	3.70E-16	
ConsensusfromContig2715Stramenopiles-Phytophthora_sojae_jgi142783	1.10E-37	
ConsensusfromContig2025Stramenopiles-Phytophthora_sojae_jgi145353	1.00E-20	
ConsensusfromContig3449Stramenopiles-Phytophthora_sojae_jgi156183	7.70E-12	
ConsensusfromContig7264Stramenopiles-Phytophthora_sojae_jgi157656	4.20E-16	
ConsensusfromContig2503Stramenopiles-Sargassum_binderi_esgi120455275_3	8.10E-20	>DV668945 SB00315 Sargassum binderi cDNA Library Sargassum binderi cDNA clone 105-C08-T3, mRNA sequence.
ConsensusfromContig3003Stramenopiles-Sargassum_binderi_esgi120455275_3	3.40E-17	>DV668945 SB00315 Sargassum binderi cDNA Library Sargassum binderi cDNA clone 105-C08-T3, mRNA sequence.
ConsensusfromContig4632Stramenopiles-Sargassum_binderi_esgi120455275_3	8.70E-18	>DV668945 SB00315 Sargassum binderi cDNA Library Sargassum binderi cDNA clone 105-C08-T3, mRNA sequence.
ConsensusfromContig5816Stramenopiles-Sargassum_binderi_esgi120455275_3	7.80E-17	>DV668945 SB00315 Sargassum binderi cDNA Library Sargassum binderi cDNA clone 105-C08-T3, mRNA sequence.
ConsensusfromContig2495Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223992843	1.70E-21	>XP_002286105 hypothetical protein THAPSDRAFT_267977 [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig5136Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223993229	1.90E-45	>XP_002286298 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig5947Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223995005	7.90E-13	>XP_002287186 hypothetical protein THAPSDRAFT_21161 [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig7036Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223995005	1.40E-21	>XP_002287186 hypothetical protein THAPSDRAFT_21161 [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig4497Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223996011	7.00E-19	>XP_002287674 member of the inositol monophosphatase protein family [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig5133Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223996097	1.80E-55	>XP_002287722 hypothetical protein THAPSDRAFT_16605 [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig2971Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224003387	4.40E-13	>XP_002288087 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig7186Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224003387	1.40E-62	>XP_002288355 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig3091Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223998927	1.00E-11	>XP_002296366 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig2045Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224000015	1.80E-19	>XP_002289680 cold-shock DNA-binding domain-containing protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig6425Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224000387	1.60E-36	>XP_002289866 alpha enolase [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig6996Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224003387	1.50E-72	>XP_002289866 alpha enolase [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig1985Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224011336	2.30E-12	>XP_002294284 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig2205Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224003733	1.80E-20	>XP_002291538 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig2391Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224004206	7.00E-13	>XP_002295754 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig2323Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224005430	5.60E-36	>XP_002296366 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig3065Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224005430	6.10E-49	>XP_002296366 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig7430Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224005430	2.80E-19	>XP_002296366 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig4318Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224007533	3.20E-14	>XP_002292726 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig6649Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224009732	7.90E-12	>XP_002293824 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig2061Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224010217	8.40E-19	>XP_002294066 hypothetical protein THAPSDRAFT_10111 [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig3983Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224010653	3.20E-29	>XP_002294284 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig7616Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015006	1.40E-42	>XP_002297164 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig8469Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015006	4.10E-26	>XP_002297164 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig1641Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015006	1.50E-65	>XP_002297164 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig2310Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015006	4.60E-37	>XP_002297164 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig2936Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015006	8.80E-26	>XP_002297164 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig3535Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015006	4.70E-13	>XP_002297164 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig4759Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015006	1.20E-15	>XP_002297164 predicted protein [Thalassiosira pseudonana CCMP1335].
ConsensusfromContig5194Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015006	2.90E-83	>XP_002297164 predicted protein [Thalassiosira pseudonana CCMP1335].

ConsensusfromContig5304Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015006
ConsensusfromContig7055Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015006
ConsensusfromContig5706Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015210
ConsensusfromContig1205Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015271
ConsensusfromContig5166Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015271
ConsensusfromContig1981Vira-Thermotoga_africana_Thermotoga_africana_CMP1335_gi1217076847
ConsensusfromContig1964Thermotoga-Thermotoga_maritima_MS88_gi15644466
ConsensusfromContig5748Thermotoga-Thermotoga_sp_RQ2_gi70288447
ConsensusfromContig1939Vira-Acanthamoeba_polyphaga_mimivirus_gi55819085
ConsensusfromContig1981Vira-Acanthamoeba_polyphaga_mimivirus_gi55819085
ConsensusfromContig6949Vira-Acanthamoeba_polyphaga_mimivirus_gi55819085
ConsensusfromContig6957Vira-Ambystoma_tigrinum_virus_gi45686029
ConsensusfromContig1949Vira-Flavobacterium_phase_11b_gi53793627
ConsensusfromContig5447Vira-Marseillevirus_gi284504057
ConsensusfromContig2041Vira-Ostreococcus_tauri_virus_1_gi290343528
ConsensusfromContig6985Vira-Ostreococcus_tauri_virus_1_gi290343528
ConsensusfromContig1982Vira-Ostreococcus_virus_OsV5_gi163955071
ConsensusfromContig6939Vira-Ostreococcus_virus_OsV5_gi163955071
ConsensusfromContig2271Vira-Ostreococcus_virus_OsV5_gi163955097
ConsensusfromContig5593Vira-Paramecium_bursaria_Chlorella_virus_1_gi9631723
ConsensusfromContig5593Vira-Paramecium_bursaria_Chlorella_virus_1_gi9631723
ConsensusfromContig2146Vira-Paramecium_bursaria_Chlorella_virus_NY2A_gi157952703
ConsensusfromContig3135Vira-Paramecium_bursaria_Chlorella_virus_NY2A_gi157952712
ConsensusfromContig5192Vira-Paramecium_bursaria_Chlorella_virus_NY2A_gi157952712
ConsensusfromContig6299Vira-Paramecium_bursaria_Chlorella_virus_NY2A_gi157952847
ConsensusfromContig6981Vira-Prochlorococcus_phase_P_SSM2_gi61805950
ConsensusfromContig2076Vira-Prochlorococcus_phase_P_SSM2_gi61806058
ConsensusfromContig3688Vira-Pseudomonas_phase_D3112_gi38229130
ConsensusfromContig7965Virdiplantae-Arabidopsis_lyrata_jgi909113
ConsensusfromContig4576Virdiplantae-Arabidopsis_lyrata_jgi917605
ConsensusfromContig7372Virdiplantae-Arabidopsis_lyrata_subsp_lyrata_gi297791891
ConsensusfromContig6968Virdiplantae-Arabidopsis_lyrata_subsp_lyrata_gi297807483
ConsensusfromContig1988Virdiplantae-Arabidopsis_lyrata_subsp_lyrata_gi297812229
ConsensusfromContig4292Virdiplantae-Arabidopsis_lyrata_subsp_lyrata_gi297816236
ConsensusfromContig7050Virdiplantae-Arabidopsis_lyrata_subsp_lyrata_gi297833172
ConsensusfromContig2012Virdiplantae-Arabidopsis_lyrata_subsp_lyrata_gi297837035
ConsensusfromContig3201Virdiplantae-Arabidopsis_lyrata_subsp_lyrata_gi297837451
ConsensusfromContig6576Virdiplantae-Arabidopsis_thaliana_gi45326682
ConsensusfromContig2054Virdiplantae-Arabidopsis_thaliana_gi15221781
ConsensusfromContig2751Virdiplantae-Arabidopsis_thaliana_gi15229253
ConsensusfromContig5237Virdiplantae-Arabidopsis_thaliana_gi15241536
ConsensusfromContig4295Virdiplantae-Arabidopsis_thaliana_gi18377960
ConsensusfromContig6928Virdiplantae-Arabidopsis_thaliana_gi18400170
ConsensusfromContig6937Virdiplantae-Arabidopsis_thaliana_gi18405537
ConsensusfromContig3104Virdiplantae-Arabidopsis_thaliana_gi18420352
ConsensusfromContig1418Virdiplantae-Arabidopsis_thaliana_gi238478996
ConsensusfromContig4554Virdiplantae-Arabidopsis_thaliana_gi42569952
ConsensusfromContig3579Virdiplantae-Arabidopsis_thaliana_gi42572703
ConsensusfromContig6367Virdiplantae-Chlamydomonas_reinhardtii_gi159462830
ConsensusfromContig5104Virdiplantae-Chlamydomonas_reinhardtii_gi159462988
ConsensusfromContig6928Virdiplantae-Chlamydomonas_reinhardtii_gi159463184
ConsensusfromContig1988Virdiplantae-Chlamydomonas_reinhardtii_gi159463552
ConsensusfromContig5298Virdiplantae-Chlamydomonas_reinhardtii_gi159463624
ConsensusfromContig2280Virdiplantae-Chlamydomonas_reinhardtii_gi159464257
ConsensusfromContig5143Virdiplantae-Chlamydomonas_reinhardtii_gi159464365
ConsensusfromContig2070Virdiplantae-Chlamydomonas_reinhardtii_gi159465629
ConsensusfromContig2914Virdiplantae-Chlamydomonas_reinhardtii_gi159466756
ConsensusfromContig5774Virdiplantae-Chlamydomonas_reinhardtii_gi159466778
ConsensusfromContig7376Virdiplantae-Chlamydomonas_reinhardtii_gi159466778
ConsensusfromContig2029Virdiplantae-Chlamydomonas_reinhardtii_gi159466868
ConsensusfromContig4125Virdiplantae-Chlamydomonas_reinhardtii_gi159468965
ConsensusfromContig2111Virdiplantae-Chlamydomonas_reinhardtii_gi159469339
ConsensusfromContig5335Virdiplantae-Chlamydomonas_reinhardtii_gi159471125
ConsensusfromContig6137Virdiplantae-Chlamydomonas_reinhardtii_gi159471159
ConsensusfromContig6990Virdiplantae-Chlamydomonas_reinhardtii_gi159471159
ConsensusfromContig2297Virdiplantae-Chlamydomonas_reinhardtii_gi159471892
ConsensusfromContig2344Virdiplantae-Chlamydomonas_reinhardtii_gi159472581
ConsensusfromContig5454Virdiplantae-Chlamydomonas_reinhardtii_gi159472725
ConsensusfromContig3144Virdiplantae-Chlamydomonas_reinhardtii_gi159474138
ConsensusfromContig2236Virdiplantae-Chlamydomonas_reinhardtii_gi159475034
ConsensusfromContig2054Virdiplantae-Chlamydomonas_reinhardtii_gi159476220
ConsensusfromContig7361Virdiplantae-Chlamydomonas_reinhardtii_gi159479046
ConsensusfromContig3164Virdiplantae-Chlamydomonas_reinhardtii_gi159479968
ConsensusfromContig5109Virdiplantae-Chlamydomonas_reinhardtii_gi159481169
ConsensusfromContig5383Virdiplantae-Chlamydomonas_reinhardtii_gi159481524
ConsensusfromContig3245Virdiplantae-Chlamydomonas_reinhardtii_gi159481672
ConsensusfromContig2020Virdiplantae-Chlamydomonas_reinhardtii_gi159484978
ConsensusfromContig2187Virdiplantae-Chlamydomonas_reinhardtii_gi159486127
ConsensusfromContig6193Virdiplantae-Chlamydomonas_reinhardtii_gi159486455
ConsensusfromContig1988Virdiplantae-Chlamydomonas_reinhardtii_gi159486875
ConsensusfromContig3129Virdiplantae-Chlamydomonas_reinhardtii_gi159486875
ConsensusfromContig1949Virdiplantae-Chlamydomonas_reinhardtii_gi159488807
ConsensusfromContig2030Virdiplantae-Chlamydomonas_reinhardtii_gi159489044
ConsensusfromContig2030Virdiplantae-Chlamydomonas_reinhardtii_gi159489044
ConsensusfromContig3157Virdiplantae-Chlamydomonas_reinhardtii_gi159489398
ConsensusfromContig5100Virdiplantae-Chlamydomonas_reinhardtii_gi159489398
ConsensusfromContig5440Virdiplantae-Chlamydomonas_reinhardtii_gi159489398
ConsensusfromContig5492Virdiplantae-Chlamydomonas_reinhardtii_gi159489398
ConsensusfromContig2070Virdiplantae-Chlamydomonas_reinhardtii_gi159489894
ConsensusfromContig5154Virdiplantae-Chlorella_NC64A_jgi11287
ConsensusfromContig5154Virdiplantae-Chlorella_NC64A_jgi11287
ConsensusfromContig1938Virdiplantae-Chlorella_NC64A_jgi1137433
ConsensusfromContig2198Virdiplantae-Chlorella_NC64A_jgi138020
ConsensusfromContig2374Virdiplantae-Chlorella_NC64A_jgi138531
ConsensusfromContig3000Virdiplantae-Chlorella_NC64A_jgi142022
ConsensusfromContig5353Virdiplantae-Chlorella_NC64A_jgi143607
ConsensusfromContig5212Virdiplantae-Chlorella_NC64A_jgi14696
ConsensusfromContig5171Virdiplantae-Chlorella_NC64A_jgi16754
ConsensusfromContig4737Virdiplantae-Chlorella_NC64A_jgi19238
4.20E-51 >XP_002297164 predicted protein [Thalassiosira pseudonana CCM1335].
8.50E-51 >XP_002297165 predicted protein [Thalassiosira pseudonana CCM1335].
1.20E-25 >XP_002297263 udp-galactose transporter-like protein [Thalassiosira pseudonana CCM1335].
1.50E-12 >XP_002297293 predicted protein [Thalassiosira pseudonana CCM1335].
1.10E-15 >XP_002297293 predicted protein [Thalassiosira pseudonana CCM1335].
7.50E-14 >XP_002297293 predicted protein [Thalassiosira pseudonana CCM1335].
7.60E-28 >NP_229518 DNA mismatch repair protein MutS [Thermotoga maritima MSB8].
1.80E-13 >YP_001738685 ABC transporter transmembrane region [Thermotoga sp. RQ2].
2.70E-12 >YP_142560 helicase III/ VV D5-type ATPase (C-term) [Acanthamoeba polyphaga mimivirus].
2.60E-14 >YP_142560 helicase III/ VV D5-type ATPase (C-term) [Acanthamoeba polyphaga mimivirus].
1.80E-15 >YP_142560 helicase III/ VV D5-type ATPase (C-term) [Acanthamoeba polyphaga mimivirus].
2.50E-44 >YP_003792 cytosine DNA methyltransferase [Ambystoma tigrinum virus].
1.70E-64 >YP_112527 hypothetical protein PHG11b_51 [Flavobacterium phase 11b].
6.00E-50 >YP_003406772 Dam-like adenine-specific DNA methylase [Marseillevirus].
4.70E-20 >YP_003494895 hypothetical protein OTV1_055 [Ostreococcus tauri virus 1].
1.20E-50 >YP_003494895 hypothetical protein OTV1_055 [Ostreococcus tauri virus 1].
1.00E-20 >YP_001648175 hypothetical protein OsV5_098 [Ostreococcus virus OsV5].
1.10E-18 >YP_001648175 hypothetical protein OsV5_098 [Ostreococcus virus OsV5].
1.40E-62 >YP_001648201 hypothetical protein OsV5_124f [Ostreococcus virus OsV5].
1.50E-13 >NP_048502 hypothetical protein PBCV1_A154f [Paramecium bursaria Chlorella virus 1].
2.90E-13 >NP_048502 hypothetical protein PBCV1_A154f [Paramecium bursaria Chlorella virus 1].
1.80E-67 >YP_001497595 hypothetical protein NY2A_B399R [Paramecium bursaria Chlorella virus NY2A].
1.40E-30 >YP_001497604 hypothetical protein NY2A_B408R [Paramecium bursaria Chlorella virus NY2A].
1.70E-20 >YP_001497604 hypothetical protein NY2A_B408R [Paramecium bursaria Chlorella virus NY2A].
1.90E-14 >YP_001497739 hypothetical protein NY2A_B543L [Paramecium bursaria Chlorella virus NY2A].
3.80E-64 >YP_214310 hypothetical protein PSM2_078 [Prochlorococcus phase P-SSM2].
1.40E-64 >YP_214418 DNA primase-helicase [Prochlorococcus phase P-SSM2].
3.10E-13 >NP_938225 hypothetical protein D3112p18 [Pseudomonas phase D3112].
1.20E-23
1.40E-29
1.40E-11 >XP_002863830 hypothetical protein ARALYDRAFT_494835 [Arabidopsis lyrata subsp. lyrata].
3.60E-16 >XP_002871625 hypothetical protein ARALYDRAFT_488306 [Arabidopsis lyrata subsp. lyrata].
3.00E-49 >XP_002873998 predicted protein [Arabidopsis lyrata subsp. lyrata].
4.00E-13 >XP_002970001 hypothetical protein ARALYDRAFT_483345 [Arabidopsis lyrata subsp. lyrata].
6.20E-15 >XP_002884468 pentatricopeptide repeat-containing protein [Arabidopsis lyrata subsp. lyrata].
1.10E-81 >XP_002886399 FZK11.14 [Arabidopsis lyrata subsp. lyrata].
5.80E-35 >XP_002886607 hypothetical protein ARALYDRAFT_893483 [Arabidopsis lyrata subsp. lyrata].
3.50E-13 >NP_010177788 protein kinase family protein [Arabidopsis thaliana].
4.40E-11 >NP_173866 polcalcinn, putative / calcium-binding pollen allergen, putative [Arabidopsis thaliana].
7.40E-24 >NP_180704 SEC (secret agent); transferase, transferring glycosyl groups [Arabidopsis thaliana].
7.40E-76 >NP_196434 EMB1873 (EMBRYO DEFECTIVE 1873); agmatine deiminase [Arabidopsis thaliana].
1.10E-11 >NP_563676 splicing factor Prip18 family protein [Arabidopsis thaliana].
4.90E-29 >NP_566464 ATFRUCT1; beta-fructofuranosidase/hydrolase, hydrolyzing O-glycosyl compounds [Arabidopsis thaliana].
7.80E-12 >NP_567400 ATP binding / nucleotide binding / phenylalanine-tRNA ligase [Arabidopsis thaliana].
3.10E-15 >NP_568405 TSL (TOUSLED); kinase / protein serine/threonine kinase [Arabidopsis thaliana].
1.50E-18 >NP_001154456 protein kinase family protein [Arabidopsis thaliana].
7.70E-11 >NP_182119 U-box domain-containing protein [Arabidopsis thaliana].
2.70E-17 >NP_974447 alpha-galactosidase, putative / melibiase, putative / alpha-D-galactoside galactohydrolase, putative [Arabidopsis thaliana].
3.10E-18 >XP_001689645 predicted protein [Chlamydomonas reinhardtii].
1.30E-58 >XP_001689724 flagellar associated protein [Chlamydomonas reinhardtii].
1.30E-18 >XP_001689822 outer dynein arm-docking complex subunit 3 [Chlamydomonas reinhardtii].
4.60E-16 >XP_001690006 alpha-galactosidase [Chlamydomonas reinhardtii].
2.50E-45 >XP_001690042 ODA5-associated flagellar adenylate kinase [Chlamydomonas reinhardtii].
9.30E-13 >XP_001690358 flagellar associated protein [Chlamydomonas reinhardtii].
1.00E-54 >XP_001690412 hypothetical protein CHLREDRAFT_127918 [Chlamydomonas reinhardtii].
8.10E-16 >XP_001691025 SMF2 superfamily protein [Chlamydomonas reinhardtii].
1.10E-30 >XP_001691564 predicted protein [Chlamydomonas reinhardtii].
2.40E-13 >XP_001691575 flagellar associated protein [Chlamydomonas reinhardtii].
1.10E-25 >XP_001691575 flagellar associated protein [Chlamydomonas reinhardtii].
2.30E-27 >XP_001691620 predicted protein [Chlamydomonas reinhardtii].
2.00E-27 >XP_001692030 seryl-tRNA synthetase [Chlamydomonas reinhardtii].
3.60E-26 >XP_001692638 splicing factor, component of the U4/U6-US snRNP complex [Chlamydomonas reinhardtii].
2.80E-34 >XP_001692825 flagellar associated protein [Chlamydomonas reinhardtii].
6.70E-23 >XP_001693707 membrane AAA-metalloprotease [Chlamydomonas reinhardtii].
4.40E-13 >XP_001693724 hypothetical protein CHLREDRAFT_143431 [Chlamydomonas reinhardtii].
6.50E-22 >XP_001693724 hypothetical protein CHLREDRAFT_143431 [Chlamydomonas reinhardtii].
3.10E-14 >XP_001694090 xanthine dehydrogenase/oxidase [Chlamydomonas reinhardtii].
2.40E-65 >XP_001694423 DNA polymerase zeta [Chlamydomonas reinhardtii].
9.00E-13 >XP_001694495 predicted protein [Chlamydomonas reinhardtii].
7.30E-48 >XP_001695186 predicted protein [Chlamydomonas reinhardtii].
4.60E-32 >XP_001695628 hypothetical protein CHLREDRAFT_119255 [Chlamydomonas reinhardtii].
1.70E-51 >XP_001696209 hypothetical protein CHLREDRAFT_97982 [Chlamydomonas reinhardtii].
1.50E-19 >XP_001697609 GTP synthase [Chlamydomonas reinhardtii].
1.60E-22 >XP_001698050 ubiquitin/menauquimen biosynthesis methyltransferase-like protein [Chlamydomonas reinhardtii].
4.60E-74 >XP_001698654 peptidyl-prolyl cis-trans isomerase, cyclophilin-type [Chlamydomonas reinhardtii].
4.50E-16 >XP_001698829 hypothetical protein CHLREDRAFT_193339 [Chlamydomonas reinhardtii].
4.30E-65 >XP_001698902 flagellar associated protein [Chlamydomonas reinhardtii].
3.10E-20 >XP_001702526 adenylate kinase 3 [Chlamydomonas reinhardtii].
6.90E-26 >XP_001702584 glutathione S-transferase [Chlamydomonas reinhardtii].
9.90E-26 >XP_001701255 beta-cep [Chlamydomonas reinhardtii].
1.90E-132 >XP_001701462 TRP protein for ciliary function [Chlamydomonas reinhardtii].
2.40E-52 >XP_001701462 TRP protein for ciliary function [Chlamydomonas reinhardtii].
3.00E-11 >XP_001702584 hypothetical protein CHLREDRAFT_108061 [Chlamydomonas reinhardtii].
4.40E-26 >XP_001702507 predicted protein [Chlamydomonas reinhardtii].
4.40E-26 >XP_001702507 predicted protein [Chlamydomonas reinhardtii].
2.30E-21 >XP_001702684 predicted protein [Chlamydomonas reinhardtii].
3.20E-32 >XP_001702684 predicted protein [Chlamydomonas reinhardtii].
6.90E-26 >XP_001702684 predicted protein [Chlamydomonas reinhardtii].
5.50E-18 >XP_001702684 predicted protein [Chlamydomonas reinhardtii].
6.30E-69 >XP_001702926 protein associated with central pair microtubule complex [Chlamydomonas reinhardtii].
2.10E-11
2.10E-11
6.90E-33
9.20E-11
5.10E-26
6.50E-16
6.60E-17
5.50E-18
3.10E-11
1.00E-13

ConsensusfromContig1293Viridiplantae-Chlorella_NC64A_jgi22364	2.30E-16	
ConsensusfromContig4779Viridiplantae-Chlorella_NC64A_jgi27284	1.70E-21	
ConsensusfromContig2007Viridiplantae-Chlorella_NC64A_jgi27424	3.00E-77	
ConsensusfromContig2730Viridiplantae-Chlorella_NC64A_jgi27424	3.70E-12	
ConsensusfromContig6924Viridiplantae-Chlorella_NC64A_jgi29747	7.60E-108	
ConsensusfromContig2169Viridiplantae-Chlorella_NC64A_jgi31862	1.20E-17	
ConsensusfromContig6934Viridiplantae-Chlorella_NC64A_jgi33357	7.00E-84	
ConsensusfromContig3201Viridiplantae-Chlorella_NC64A_jgi33359	1.10E-49	
ConsensusfromContig2145Viridiplantae-Chlorella_NC64A_jgi33543	1.30E-48	
ConsensusfromContig5785Viridiplantae-Chlorella_NC64A_jgi33771	1.00E-13	
ConsensusfromContig2031Viridiplantae-Chlorella_NC64A_jgi36950	3.50E-16	
ConsensusfromContig3443Viridiplantae-Chlorella_NC64A_jgi49216	1.40E-16	
ConsensusfromContig7093Viridiplantae-Chlorella_NC64A_jgi58027	6.90E-21	
ConsensusfromContig5625Viridiplantae-Chlorella_vulgaris_jgi15201	5.70E-15	
ConsensusfromContig5615Viridiplantae-Chlorella_vulgaris_jgi26008	2.00E-16	
ConsensusfromContig2303Viridiplantae-Chlorella_vulgaris_jgi28184	2.40E-57	
ConsensusfromContig3148Viridiplantae-Chlorella_vulgaris_jgi30390	5.80E-31	
ConsensusfromContig5125Viridiplantae-Chlorella_vulgaris_jgi38516	2.80E-19	
ConsensusfromContig7002Viridiplantae-Chlorella_vulgaris_jgi39061	2.40E-92	
ConsensusfromContig5953Viridiplantae-Chlorella_vulgaris_jgi42582	5.30E-39	
ConsensusfromContig2116Viridiplantae-Chlorella_vulgaris_jgi42910	3.90E-16	
ConsensusfromContig2230Viridiplantae-Chlorella_vulgaris_jgi59290	7.00E-11	
ConsensusfromContig3169Viridiplantae-Chlorella_vulgaris_jgi59290	1.80E-14	
ConsensusfromContig55Viridiplantae-Chlorella_vulgaris_jgi61152	1.80E-36	
ConsensusfromContig5232Viridiplantae-Chlorella_vulgaris_jgi70067	9.90E-18	
ConsensusfromContig7126Viridiplantae-Chlorella_vulgaris_jgi72307	1.30E-39	
ConsensusfromContig4613Viridiplantae-Chlorella_vulgaris_jgi72314	8.00E-17	
ConsensusfromContig5488Viridiplantae-Chlorella_vulgaris_jgi73177	9.30E-23	
ConsensusfromContig1993Viridiplantae-Chlorella_vulgaris_jgi74507	3.80E-14	
ConsensusfromContig3390Viridiplantae-Chlorella_vulgaris_jgi81272	1.30E-14	
ConsensusfromContig5301Viridiplantae-Chlorella_vulgaris_jgi82458	1.10E-37	
ConsensusfromContig1007Viridiplantae-Chlorella_vulgaris_jgi82806	1.50E-12	
ConsensusfromContig7103Viridiplantae-Chlorella_vulgaris_jgi83828	2.90E-12	
ConsensusfromContig5219Viridiplantae-Chlorella_vulgaris_jgi84104	1.90E-46	
ConsensusfromContig2423Viridiplantae-Glycine_max_jgiGlyma01g01120	3.80E-31	
ConsensusfromContig3776Viridiplantae-Glycine_max_jgiGlyma01g20680	9.00E-11	
ConsensusfromContig5510Viridiplantae-Glycine_max_jgiGlyma01g20680	1.30E-22	
ConsensusfromContig7094Viridiplantae-Glycine_max_jgiGlyma02g11240	4.50E-43	
ConsensusfromContig1995Viridiplantae-Glycine_max_jgiGlyma03g22860	2.00E-26	
ConsensusfromContig1044Viridiplantae-Glycine_max_jgiGlyma03g26620	9.50E-13	
ConsensusfromContig4409Viridiplantae-Glycine_max_jgiGlyma03g41200	4.40E-22	
ConsensusfromContig5872Viridiplantae-Glycine_max_jgiGlyma04g02310	3.10E-18	
ConsensusfromContig6673Viridiplantae-Glycine_max_jgiGlyma05g30430	3.90E-15	
ConsensusfromContig4064Viridiplantae-Glycine_max_jgiGlyma05g31270	6.90E-14	
ConsensusfromContig7129Viridiplantae-Glycine_max_jgiGlyma05g34630	5.30E-36	
ConsensusfromContig1394Viridiplantae-Glycine_max_jgiGlyma06g11040	5.30E-16	
ConsensusfromContig5785Viridiplantae-Glycine_max_jgiGlyma06g19780	4.50E-19	
ConsensusfromContig5120Viridiplantae-Glycine_max_jgiGlyma07g00430	4.70E-236	
ConsensusfromContig2435Viridiplantae-Glycine_max_jgiGlyma07g16120	2.50E-66	
ConsensusfromContig2624Viridiplantae-Glycine_max_jgiGlyma07g24440	1.70E-15	
ConsensusfromContig2723Viridiplantae-Glycine_max_jgiGlyma09g07170	1.80E-11	
ConsensusfromContig6947Viridiplantae-Glycine_max_jgiGlyma09g39270	3.50E-22	
ConsensusfromContig5104Viridiplantae-Glycine_max_jgiGlyma09g40990	2.80E-52	
ConsensusfromContig5706Viridiplantae-Glycine_max_jgiGlyma10g30050	4.40E-12	
ConsensusfromContig1989Viridiplantae-Glycine_max_jgiGlyma10g43710	1.70E-16	
ConsensusfromContig5211Viridiplantae-Glycine_max_jgiGlyma11g04150	3.20E-15	
ConsensusfromContig1088Viridiplantae-Glycine_max_jgiGlyma11g11500	8.90E-17	
ConsensusfromContig2219Viridiplantae-Glycine_max_jgiGlyma11g12120	4.40E-32	
ConsensusfromContig6937Viridiplantae-Glycine_max_jgiGlyma11g33970	7.60E-15	
ConsensusfromContig1096Viridiplantae-Glycine_max_jgiGlyma13g07460	7.40E-21	
ConsensusfromContig1198Viridiplantae-Glycine_max_jgiGlyma13g24570	3.30E-12	
ConsensusfromContig2419Viridiplantae-Glycine_max_jgiGlyma13g28290	9.90E-13	
ConsensusfromContig5967Viridiplantae-Glycine_max_jgiGlyma14g00290	8.70E-12	
ConsensusfromContig6938Viridiplantae-Glycine_max_jgiGlyma14g10850	7.80E-39	
ConsensusfromContig5116Viridiplantae-Glycine_max_jgiGlyma15g15370	1.10E-79	
ConsensusfromContig6351Viridiplantae-Glycine_max_jgiGlyma16g15820	9.60E-12	
ConsensusfromContig2731Viridiplantae-Glycine_max_jgiGlyma16g31730	1.80E-23	
ConsensusfromContig5207Viridiplantae-Glycine_max_jgiGlyma16g33510	1.30E-31	
ConsensusfromContig2163Viridiplantae-Glycine_max_jgiGlyma18g02960	6.60E-104	
ConsensusfromContig1964Viridiplantae-Glycine_max_jgiGlyma18g05080	2.30E-48	
ConsensusfromContig2484Viridiplantae-Glycine_max_jgiGlyma18g14640	4.60E-13	
ConsensusfromContig6868Viridiplantae-Glycine_max_jgiGlyma18g44210	7.70E-21	
ConsensusfromContig6994Viridiplantae-Glycine_max_jgiGlyma18g46370	2.70E-11	
ConsensusfromContig1748Viridiplantae-Glycine_max_jgiGlyma19g45310	1.20E-12	
ConsensusfromContig7367Viridiplantae-Glycine_max_jgiGlyma20g20600	6.10E-15	
ConsensusfromContig6932Viridiplantae-Glycine_max_jgiGlyma20g27760	7.90E-13	
ConsensusfromContig2020Viridiplantae-Helicospodium_sp_tBHEL00000431_3	7.30E-14	
ConsensusfromContig2020Viridiplantae-Helicospodium_sp_tBHEL00000431_3	7.30E-14	
ConsensusfromContig4080Viridiplantae-Mesostigma_viride_esContig1584_3	4.60E-14	
ConsensusfromContig1512Viridiplantae-Mesostigma_viride_esContig1911_1	4.50E-21	
ConsensusfromContig1547Viridiplantae-Mesostigma_viride_esContig495_4	4.10E-11	
ConsensusfromContig5262Viridiplantae-Mesostigma_viride_esg6i0424227_2	1.60E-16	>DN255617 Mesostigma vegetative library Mesostigma viride cDNA clone Meso2a18e09.t7, mRNA sequence.
ConsensusfromContig4750Viridiplantae-Mesostigma_viride_esg6i0425116_1	5.30E-26	
ConsensusfromContig1972Viridiplantae-Micromonas_sp_RCC299_gi255070343	1.80E-37	>XP_002507253 dynein 18 kDa light chain, flagellar outer arm [Micromonas sp. RCC299].
ConsensusfromContig6926Viridiplantae-Micromonas_sp_RCC299_gi255070981	2.90E-48	>XP_002500752 predicted protein [Micromonas sp. RCC299].
ConsensusfromContig4145Viridiplantae-Micromonas_sp_RCC299_gi255071527	9.90E-12	>XP_002499438 predicted protein [Micromonas sp. RCC299].
ConsensusfromContig5401Viridiplantae-Micromonas_sp_RCC299_gi255071609	3.60E-38	>XP_002499479 predicted protein [Micromonas sp. RCC299].
ConsensusfromContig3439Viridiplantae-Micromonas_sp_RCC299_gi255071795	7.50E-16	>XP_002499572 predicted protein [Micromonas sp. RCC299].
ConsensusfromContig4549Viridiplantae-Micromonas_sp_RCC299_gi255071803	1.70E-13	>XP_002499576 predicted protein [Micromonas sp. RCC299].
ConsensusfromContig5138Viridiplantae-Micromonas_sp_RCC299_gi255072315	7.60E-14	>XP_002499832 predicted protein [Micromonas sp. RCC299].
ConsensusfromContig5243Viridiplantae-Micromonas_sp_RCC299_gi255073039	3.60E-21	>XP_002500194 aminotransferase/S-adenosyl-L-homocysteine hydrolase [Micromonas sp. RCC299].
ConsensusfromContig6973Viridiplantae-Micromonas_sp_RCC299_gi255073045	1.00E-23	>XP_002500197 predicted protein [Micromonas sp. RCC299].
ConsensusfromContig2455Viridiplantae-Micromonas_sp_RCC299_gi255073165	3.30E-14	>XP_002500257 predicted protein [Micromonas sp. RCC299].
ConsensusfromContig1363Viridiplantae-Micromonas_sp_RCC299_gi255073339	1.00E-28	>XP_002500344 dynein heavy chain [Micromonas sp. RCC299].
ConsensusfromContig2098Viridiplantae-Micromonas_sp_RCC299_gi255074405	1.10E-27	>XP_002500877 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
ConsensusfromContig2421Viridiplantae-Micromonas_sp_RCC299_gi255074405	8.90E-17	>XP_002500877 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
ConsensusfromContig3105Viridiplantae-Micromonas_sp_RCC299_gi255074405	1.20E-34	>XP_002500877 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
ConsensusfromContig6982Viridiplantae-Micromonas_sp_RCC299_gi255074405	1.10E-14	>XP_002500877 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
ConsensusfromContig5115Viridiplantae-Micromonas_sp_RCC299_gi255074565	1.20E-22	>XP_002500957 predicted protein [Micromonas sp. RCC299].
ConsensusfromContig2357Viridiplantae-Micromonas_sp_RCC299_gi255074823	5.40E-17	>XP_002501086 predicted protein [Micromonas sp. RCC299].

ConsensusfromContig6924Viridiplantae-Micromonas_sp_RCC299_gi255074985
ConsensusfromContig3136Viridiplantae-Micromonas_sp_RCC299_gi255075035
ConsensusfromContig6975Viridiplantae-Micromonas_sp_RCC299_gi255075035
ConsensusfromContig6218Viridiplantae-Micromonas_sp_RCC299_gi255075773
ConsensusfromContig2000Viridiplantae-Micromonas_sp_RCC299_gi255076683
ConsensusfromContig2021Viridiplantae-Micromonas_sp_RCC299_gi255076683
ConsensusfromContig5381Viridiplantae-Micromonas_sp_RCC299_gi255076683
ConsensusfromContig1637Viridiplantae-Micromonas_sp_RCC299_gi255076922
ConsensusfromContig5101Viridiplantae-Micromonas_sp_RCC299_gi255077380
ConsensusfromContig6952Viridiplantae-Micromonas_sp_RCC299_gi255077976
ConsensusfromContig4975Viridiplantae-Micromonas_sp_RCC299_gi255078036
ConsensusfromContig2815Viridiplantae-Micromonas_sp_RCC299_gi255078282
ConsensusfromContig5223Viridiplantae-Micromonas_sp_RCC299_gi255078282
ConsensusfromContig2946Viridiplantae-Micromonas_sp_RCC299_gi255078676
ConsensusfromContig2364Viridiplantae-Micromonas_sp_RCC299_gi255078758
ConsensusfromContig7132Viridiplantae-Micromonas_sp_RCC299_gi255079104
ConsensusfromContig3123Viridiplantae-Micromonas_sp_RCC299_gi255079270
ConsensusfromContig1969Viridiplantae-Micromonas_sp_RCC299_gi255079404
ConsensusfromContig2446Viridiplantae-Micromonas_sp_RCC299_gi255079510
ConsensusfromContig1945Viridiplantae-Micromonas_sp_RCC299_gi255079708
ConsensusfromContig5117Viridiplantae-Micromonas_sp_RCC299_gi255079954
ConsensusfromContig6384Viridiplantae-Micromonas_sp_RCC299_gi255079982
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ConsensusfromContig2334Viridiplantae-Micromonas_sp_RCC299_gi255081134
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ConsensusfromContig5208Viridiplantae-Micromonas_sp_RCC299_gi255081134
ConsensusfromContig2172Viridiplantae-Micromonas_sp_RCC299_gi255081600
ConsensusfromContig2873Viridiplantae-Micromonas_sp_RCC299_gi255081600
ConsensusfromContig7266Viridiplantae-Micromonas_sp_RCC299_gi255082011
ConsensusfromContig5623Viridiplantae-Micromonas_sp_RCC299_gi255082157
ConsensusfromContig5316Viridiplantae-Micromonas_sp_RCC299_gi255082548
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ConsensusfromContig5114Viridiplantae-Micromonas_sp_RCC299_gi255084457
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ConsensusfromContig2019Viridiplantae-Micromonas_sp_RCC299_gi255084469
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ConsensusfromContig5660Viridiplantae-Micromonas_sp_RCC299_gi255085088
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ConsensusfromContig6925Viridiplantae-Micromonas_sp_RCC299_gi255085476
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ConsensusfromContig2293Viridiplantae-Micromonas_sp_RCC299_gi255088199
ConsensusfromContig5236Viridiplantae-Micromonas_sp_RCC299_gi255088603
ConsensusfromContig461Viridiplantae-Micromonas_sp_RCC299_gi255089244
ConsensusfromContig3037Viridiplantae-Micromonas_sp_RCC299_gi255089400
ConsensusfromContig2050Viridiplantae-Micromonas_sp_RCC299_gi255089414
ConsensusfromContig3713Viridiplantae-Oryza_sativa_Japonica_Group_gi115433976
ConsensusfromContig5172Viridiplantae-Oryza_sativa_Japonica_Group_gi115436094
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ConsensusfromContig7057Viridiplantae-Oryza_sativa_Japonica_Group_gi115461651
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ConsensusfromContig2033Viridiplantae-Oryza_sativa_Japonica_Group_gi297727649
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ConsensusfromContig2028Viridiplantae-Ostreococcus_lucimarinus_CCE9901_gi145342431
ConsensusfromContig1017Viridiplantae-Ostreococcus_lucimarinus_CCE9901_gi145345433
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ConsensusfromContig1958Viridiplantae-Ostreococcus_RCC809_gj31045
ConsensusfromContig2738Viridiplantae-Ostreococcus_RCC809_gj313474
ConsensusfromContig2137Viridiplantae-Ostreococcus_RCC809_gj37803
ConsensusfromContig5709Viridiplantae-Ostreococcus_RCC809_gj38046
ConsensusfromContig3183Viridiplantae-Ostreococcus_RCC809_gj39140
ConsensusfromContig7120Viridiplantae-Ostreococcus_RCC809_gj40186
ConsensusfromContig6957Viridiplantae-Ostreococcus_RCC809_gj54958
ConsensusfromContig4521Viridiplantae-Ostreococcus_RCC809_gj59036
8.40E-101 >XP_002501167 mitochondrial carrier family [Micromonas sp. RCC299].
1.00E-131 >XP_002501192 predicted protein [Micromonas sp. RCC299].
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3.00E-12 >XP_002501561 predicted protein [Micromonas sp. RCC299].
1.60E-42 >XP_002502014 predicted protein [Micromonas sp. RCC299].
6.70E-18 >XP_002502014 predicted protein [Micromonas sp. RCC299].
3.70E-16 >XP_002502014 predicted protein [Micromonas sp. RCC299].
9.20E-17 >XP_002502124 glycosyltransferase family 66 protein [Micromonas sp. RCC299].
1.30E-17 >XP_002502332 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
9.00E-61 >XP_002502568 inositol monophosphatase [Micromonas sp. RCC299].
1.20E-12 >XP_002502598 hypothetical protein MGCPU_113339 [Micromonas sp. RCC299].
9.90E-17 >XP_002502721 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
2.60E-111 >XP_002502721 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
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7.80E-31 >XP_002502959 predicted protein [Micromonas sp. RCC299].
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3.90E-12 >XP_002503215 derlin-like protein [Micromonas sp. RCC299].
6.40E-26 >XP_002503282 predicted protein [Micromonas sp. RCC299].
1.10E-29 >XP_002503335 predicted protein [Micromonas sp. RCC299].
5.90E-187 >XP_002503434 ATP-binding cassette superfamily [Micromonas sp. RCC299].
5.10E-91 >XP_002503557 predicted protein [Micromonas sp. RCC299].
1.30E-11 >XP_002503571 predicted protein [Micromonas sp. RCC299].
8.60E-68 >XP_002507789 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
5.80E-12 >XP_002507789 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
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1.30E-14 >XP_002508224 cytoplasmic dynein heavy chain 1b [Micromonas sp. RCC299].
1.80E-17 >XP_002508297 predicted protein [Micromonas sp. RCC299].
4.50E-26 >XP_002504260 ATP-binding cassette superfamily [Micromonas sp. RCC299].
2.00E-16 >XP_002504357 resistance-nodulation-cell division superfamily [Micromonas sp. RCC299].
1.20E-26 >XP_002504472 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
6.10E-18 >XP_002504490 mRNA capping enzyme [Micromonas sp. RCC299].
7.60E-27 >XP_002508625 ATP-binding cassette superfamily [Micromonas sp. RCC299].
1.30E-68 >XP_002508803 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
3.90E-136 >XP_002508803 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
5.20E-22 >XP_002508803 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
1.60E-30 >XP_002508809 predicted protein [Micromonas sp. RCC299].
2.90E-27 >XP_002508809 predicted protein [Micromonas sp. RCC299].
1.50E-11 >XP_002504836 predicted protein [Micromonas sp. RCC299].
1.50E-33 >XP_002504950 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
3.90E-16 >XP_002504975 predicted protein [Micromonas sp. RCC299].
3.50E-17 >XP_002504979 predicted protein [Micromonas sp. RCC299].
3.10E-88 >XP_002505169 dynein, 70 kDa intermediate chain, flagellar outer arm [Micromonas sp. RCC299].
2.10E-17 >XP_002505169 dynein, 70 kDa intermediate chain, flagellar outer arm [Micromonas sp. RCC299].
2.40E-11 >XP_002505272 radial spoke protein 7 [Micromonas sp. RCC299].
1.90E-36 >XP_002505272 radial spoke protein 7 [Micromonas sp. RCC299].
1.20E-28 >XP_002508920 predicted protein [Micromonas sp. RCC299].
1.40E-11 >XP_002508929 voltage-gated ion channel superfamily [Micromonas sp. RCC299].
1.60E-13 >XP_002509170 predicted protein [Micromonas sp. RCC299].
1.00E-27 >XP_002505531 predicted protein [Micromonas sp. RCC299].
1.20E-70 >XP_002505673 major facilitator superfamily [Micromonas sp. RCC299].
7.80E-11 >XP_002506022 predicted protein [Micromonas sp. RCC299].
5.90E-53 >XP_002506224 predicted protein [Micromonas sp. RCC299].
2.00E-16 >XP_002506544 predicted protein [Micromonas sp. RCC299].
3.00E-16 >XP_002506622 dynein gamma chain, flagellar outer arm [Micromonas sp. RCC299].
1.60E-18 >XP_002506629 predicted protein [Micromonas sp. RCC299].
1.30E-15 >NP_001041746 Os01g0102000 [Oryza sativa Japonica Group].
4.20E-24 >NP_001042805 Os01g0296200 [Oryza sativa Japonica Group].
1.90E-16 >NP_001043475 Os01g0681900 [Oryza sativa Japonica Group].
1.20E-50 >NP_001044056 Os01g0713900 [Oryza sativa Japonica Group].
1.90E-12 >NP_001044160 Os01g0732200 [Oryza sativa Japonica Group].
7.60E-13 >NP_001046460 Os02g0255000 [Oryza sativa Japonica Group].
4.20E-12 >NP_001047461 Os02g0621500 [Oryza sativa Japonica Group].
1.40E-12 >NP_001048140 Os02g0752200 [Oryza sativa Japonica Group].
8.10E-62 >NP_001051493 Os03g0786900 [Oryza sativa Japonica Group].
5.40E-60 >NP_001054248 Os04g0675500 [Oryza sativa Japonica Group].
5.70E-25 >NP_001054425 Os05g0107600 [Oryza sativa Japonica Group].
1.90E-12 >NP_001054975 Os05g0230600 [Oryza sativa Japonica Group].
4.70E-32 >NP_001058481 Os06g0701100 [Oryza sativa Japonica Group].
6.30E-96 >NP_001059429 Os07g0405100 [Oryza sativa Japonica Group].
1.30E-11 >NP_001060066 Os07g0573300 [Oryza sativa Japonica Group].
2.60E-17 >NP_001060905 Os08g0127700 [Oryza sativa Japonica Group].
6.40E-14 >NP_001063606 Os09g0506000 [Oryza sativa Japonica Group].
1.20E-16 >NP_001067397 Os12g0640800 [Oryza sativa Japonica Group].
8.60E-11 >NP_001046319 Os02g0220700 [Oryza sativa Japonica Group].
2.00E-43 >NP_001060485 Os07g0651500 [Oryza sativa Japonica Group].
1.80E-11 >NP_001174213 Os07g0651500 [Oryza sativa Japonica Group].
4.70E-22 >NP_001176188 Os10g0457932 [Oryza sativa Japonica Group].
1.90E-14 >XP_001416112 predicted protein [Ostreococcus lucimarinus CCE9901].
5.00E-23 >XP_001416186 Asparagine synthase (glutamine-hydrolyzing) related protein [Ostreococcus lucimarinus CCE9901].
2.90E-12 >XP_001417215 predicted protein [Ostreococcus lucimarinus CCE9901].
2.80E-30 >XP_001417362 predicted protein [Ostreococcus lucimarinus CCE9901].
3.40E-23 >XP_001418272 predicted protein [Ostreococcus lucimarinus CCE9901].
1.60E-41 >XP_001419423 predicted protein [Ostreococcus lucimarinus CCE9901].
1.60E-14 >XP_001420439 VIC family transporter: potassium ion channel subfamily H [Ostreococcus lucimarinus CCE9901].
8.40E-39 >XP_001420319 predicted protein [Ostreococcus lucimarinus CCE9901].
5.10E-28 >XP_001420883 predicted protein [Ostreococcus lucimarinus CCE9901].
9.60E-22 >XP_001421384 predicted protein [Ostreococcus lucimarinus CCE9901].
1.20E-26 >XP_001422582 predicted protein [Ostreococcus lucimarinus CCE9901].
7.90E-20 >XP_001422582 predicted protein [Ostreococcus lucimarinus CCE9901].
7.60E-11 >XP_001422582 predicted protein [Ostreococcus lucimarinus CCE9901].
8.20E-15 >XP_001422582 predicted protein [Ostreococcus lucimarinus CCE9901].
1.30E-11 >XP_001422582 predicted protein [Ostreococcus lucimarinus CCE9901].
9.10E-26 >XP_001422582 predicted protein [Ostreococcus lucimarinus CCE9901].
7.20E-11 >XP_001422582 predicted protein [Ostreococcus lucimarinus CCE9901].
1.30E-16 >XP_001422582 predicted protein [Ostreococcus lucimarinus CCE9901].
2.70E-43 >XP_001422582 predicted protein [Ostreococcus lucimarinus CCE9901].
2.70E-11 >XP_001422582 predicted protein [Ostreococcus lucimarinus CCE9901].

Table S7. Results of the phylogenomic analysis of contigs generated from the assembly of 454+Illumina data from MS584-11. The putative proteins were predicted using BLASTx, which were then used as a query against our local database and the output analyzed with *PhyloSort (S9)* to identify the different monophyletic groups. A total of 5231 maximum likelihood (PhyML) trees were returned by the pipeline.

Taxonomic Affinity	aLRT \geq 0.90	aLRT \geq 0.70
Monophyly with Metazoa	538	670
Monophyly with Viridiplantae	338	480
Monophyly with Stramenopiles	335	479
Monophyly with Haptophyta	240	355
Monophyly with Alveolata	252	376
Monophyly with Choanoflagellida	158	228
Monophyly with Fungi	136	200
Monophyly with Excavata	93	179
Monophyly with Rhodophyta	43	91
Monophyly with Amoebozoa	57	105
Monophyly with Rhizaria	16	24
Monophyly with Cryptophyta	6	22
Monophyly with Glaucophyta	11	24
Monophyly with Opisthokonta	5	9
Monophyly with Proteobacteria	130	188
Monophyly with Bacteroidetes	69	81
Monophyly with Actinobacteria	39	53
Monophyly with Chlamydiae-Verrucomicrobia	32	47
Monophyly with Firmicutes	35	47
Monophyly with Cyanobacteria	25	31
Monophyly with Planctomycetes	18	26
Monophyly with Chloroflexi	6	9
Nonophyly with Archaea	5	8
Monophyly with Fibrobacteres	2	3
Monophyly with Elusimicrobia	0	0

Table S8. Gene ontology (GO) annotations of the 1683 Stramenopiles proteins that grouped at aLRT \geq 0.70 (using PhyML) with proteins encoded on MS584-11 contigs (454+Illumina assembly). The maximum likelihood phylogenetic approach provides strong evidence that the Stramenopiles and picobiliphyte proteins are putative homologs.

```
SeqName,length,score,eValue,hitName,GOs,Accession
Stramenopiles-Aureococcus_anophagefferens_jgi4399,257,283.493,1.62E-74,gi|223996001|ref|XP_002287674.1|member of the inositol monophosphatase protein family [Thalassiosira pseudonana CCMP1335] ,
GO:0004437,"XP_002287674.1,EED95117.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223996001,274,567,8.25E-160,gi|223996001|ref|XP_002287674.1|member of the inositol monophosphatase protein family [Thalassiosira pseudonana CCMP1335] ,
GO:0004437,"XP_002287674.1,EED95117.1"
Stramenopiles-
Phytophthora_capsici_jgi123034,487,865.144,0,gi|301108605|ref|XP_002903384.1|ser yl-tRNA synthetase [Phytophthora infestans T30-4] ,
GO:0005524,GO:0006412,GO:0005737,GO:0004812,GO:0006434,GO:0000166,GO:0006418,GO:0004828","XP_002903384.1,EEY55808.1"
Stramenopiles-
Phytophthora_ramorum_jgi71791,408,773.467,0,gi|301122065|ref|XP_002908759.1|phos phoglycerate kinase [Phytophthora infestans T30-4] ,
GO:0016301,GO:0005737,GO:0016740,GO:0004618,GO:0006096","XP_002908759.1,EEY57573.1"
Stramenopiles-
Phytophthora_capsici_jgi115330,429,807.364,0,gi|301122065|ref|XP_002908759.1|pho sphoglycerate kinase [Phytophthora infestans T30-4] ,
GO:0016301,GO:0005737,GO:0016740,GO:0004618,GO:0006096","XP_002908759.1,EEY57573.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223997336,386,771.155,0,gi|223997336|ref|XP_002288341.1|phosphoglycerate kinase [Thalassiosira pseudonana CCMP1335] ,
GO:0016301,GO:0005737,GO:0016740,GO:0004618,GO:0006096","XP_002288341.1,EED93777.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224003799,536,1103.97,0,gi|224003799|ref|XP_002291571.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
GO:0050662,GO:0009082,GO:0004455,GO:0055114,GO:0016491,GO:0003824,GO:0008152,GO:0008652,GO:0005488","XP_002291571.1,EED91678.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219113938,521,1074.69,0,gi|219113938|ref|XP_002176152.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,
GO:0050662,GO:0009082,GO:0004455,GO:0055114,GO:0016491,GO:0003824,GO:0008152,GO:0008652,GO:0005488","XP_002176152.1,EEC42859.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi136663,492,383.645,2.65E-104,"gi|301110280|ref|XP_002904220.1|beta-D-xylosidase, putative [Phytophthora infestans T30-4] ",
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798","XP_002904220.1,EEY54398.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi218338,261,301.982,4.07E-80,gi|219121946|ref|XP_002181317.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,
GO:0016740,GO:0009165,GO:0019205,GO:0005737,GO:0005524,GO:0019201,GO:0016301,GO:0016776,GO:0006139,GO:0004017","XP_002181317.1,EEC47240.1"
```

Stramenopiles-Aureococcus_anophagefferens_jgi20832,99,84.3445,4.42E-15,gi|218192553|gb|EEC74980.1|hypothetical protein OsI_11022 [Oryza sativa Indica Group],,EEC74980.1

Stramenopiles-Aureococcus_anophagefferens_jgi21097,332,253.062,3.35E-65,"gi|241950087|ref|XP_002417766.1|kinesin, putative [Candida dubliniensis CD36] ", "

GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874", "XP_002417766.1,CAX45479.1"

Stramenopiles-

Phytophthora_sojae_jgi158154,515,775.778,0,gi|301108970|ref|XP_002903566.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "

GO:0032313,GO:0005622,GO:0005097", "XP_002903566.1,EEY55342.1"

Stramenopiles-Phytophthora_capsici_jgi39575,373,483.026,2.51E-134,gi|301108970|ref|XP_002903566.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "

GO:0032313,GO:0005622,GO:0005097", "XP_002903566.1,EEY55342.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi224010,325,481.871,4.13E-134,gi|224007837|ref|XP_002292878.1|hypothetical protein THAPSDRAFT_36419 [Thalassiosira pseudonana CCMP1335] , "

GO:0032313,GO:0005622,GO:0005097", "XP_002292878.1,EED90074.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224007837,326,681.789,0,gi|224007837|ref|XP_002292878.1|hypothetical protein THAPSDRAFT_36419 [Thalassiosira pseudonana CCMP1335] , " GO:0032313,GO:0005622,GO:0005097", "XP_002292878.1,EED90074.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219117716,330,685.256,0,gi|219117716|ref|XP_002179648.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "

GO:0032313,GO:0005622,GO:0005097", "XP_002179648.1,EEC48634.1"

Stramenopiles-Aureococcus_anophagefferens_jgi18383,342,296.59,3.04E-78,gi|219117716|ref|XP_002179648.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0032313,GO:0005622,GO:0005097", "XP_002179648.1,EEC48634.1"

Stramenopiles-Aureococcus_anophagefferens_jgi8566,98,95.1301,2.26E-18,gi|307103743|gb|EFN52001.1|hypothetical protein CHLNCDRAFT_139531 [Chlorella variabilis],,EFN52001.1

Stramenopiles-Fragilariopsis_cylindrus_jgi270431,216,285.034,3.46E-75,gi|219129981|ref|XP_002185154.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "XP_002185154.1,EEC43286.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224014945,518,1080.47,0,gi|224014945|ref|XP_002297134.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "XP_002297134.1,EED86602.1"

Stramenopiles-Aureococcus_anophagefferens_jgi14749,148,130.568,5.28E-29,gi|302841807|ref|XP_002952448.1|hypothetical protein VOLCADRAFT_62482 [Volvox carteri f. nagariensis] , "XP_002952448.1,EFJ46591.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219119917,282,575.089,2.51E-162,gi|219119917|ref|XP_002180709.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0004358,GO:0006526", "XP_002180709.1,EEC48117.1"

Stramenopiles-Aureococcus_anophagefferens_jgi13438,263,192.586,4.01E-47,gi|303285434|ref|XP_003062007.1|voltage-gated ion channel superfamily [Micromonas pusilla CCMP1545] , "

GO:0005216,GO:0005245,GO:0005244,GO:0006816,GO:0016021,GO:0016020,GO:0006811,GO:0006810,GO:0005262,GO:0055085,GO:0005891", "XP_003062007.1,EEH53719.1"

Stramenopiles-

Phytophthora_ramorum_jgi80812,594,846.655,0,gi|301113500|ref|XP_002998520.1|cons

erved hypothetical protein [Phytophthora infestans T30-4]
 ,, "XP_002998520.1,EEY69873.1"
 Stramenopiles-Phytophthora_sojae_jgi143093,670,547.74,1.59E-
 153,gi|301113500|ref|XP_002998520.1|conserved hypothetical protein [Phytophthora
 infestans T30-4] ,, "XP_002998520.1,EEY69873.1"
 Stramenopiles-Phytophthora_capsici_jgi117939,284,479.174,1.98E-
 133,gi|301113500|ref|XP_002998520.1|conserved hypothetical protein [Phytophthora
 infestans T30-4] ,, "XP_002998520.1,EEY69873.1"
 Stramenopiles-
 Fragilariopsis_cylindrus_jgi188713,872,895.19,0,"gi|219124711|ref|XP_002182641.1
 |P1B, P type ATPase [Phaeodactylum tricornutum CCAP 1055/1] ", "
 GO:0016021,GO:0016020,GO:0030001,GO:0015662,GO:0016787,GO:0000166,GO:0005524,GO:
 0006754,GO:0003824,GO:0046872,GO:0008152,GO:0016820", "XP_002182641.1,EEC45928.1"
 Stramenopiles-
 Phaeodactylum_tricornutum_CCAP_1055/1_gi219124711,710,1446.41,0,"gi|219124711|re
 f|XP_002182641.1|P1B, P type ATPase [Phaeodactylum tricornutum CCAP 1055/1] ", "
 GO:0016021,GO:0016020,GO:0030001,GO:0015662,GO:0016787,GO:0000166,GO:0005524,GO:
 0006754,GO:0003824,GO:0046872,GO:0008152,GO:0016820", "XP_002182641.1,EEC45928.1"
 Stramenopiles-
 Thalassiosira_pseudonana_CCMP1335_gi223998022,699,1412.9,0,gi|223998022|ref|XP_0
 02288684.1|heavy-metal transporter [Thalassiosira pseudonana CCMP1335] , "
 GO:0016021,GO:0016020,GO:0030001,GO:0015662,GO:0016787,GO:0000166,GO:0005524,GO:
 0006754,GO:0003824,GO:0008551,GO:0046872,GO:0008152,GO:0016820", "XP_002288684.1,
 EED94120.1"
 Stramenopiles-
 Phytophthora_capsici_jgi37523,812,1540.4,0,gi|190574131|ref|YP_001971976.1|putat
 ive copper-transporting P-type ATPase [Stenotrophomonas maltophilia K279a] , "
 GO:0005507,GO:0016021,GO:0004008,GO:0016020,GO:0030001,GO:0015662,GO:0016787,GO:
 0005524,GO:0006754,GO:0003824,GO:0046873,GO:0006825,GO:0046872,GO:0008152,GO:001
 6820", "YP_001971976.1,CAQ45675.1"
 Stramenopiles-
 Thalassiosira_pseudonana_CCMP1335_gi224000419,634,1301.96,0,gi|224000419|ref|XP_
 002289882.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
 GO:0016192,GO:0005509,GO:0016021", "XP_002289882.1,EED93419.1"
 Stramenopiles-
 Aureococcus_anophagefferens_jgi53426,1457,909.057,0,gi|73989050|ref|XP_856765.1|
 PREDICTED: similar to CG12149-PA isoform 5 [Canis familiaris],,XP_856765.1
 Stramenopiles-Aureococcus_anophagefferens_jgi55227,1070,595.89,9.53E-
 168,gi|147902762|ref|NP_001083293.1|hypothetical protein LOC398849 [Xenopus
 laevis] , "
 GO:0016887,GO:0005524,GO:0000166,GO:0017111", "NP_001083293.1,AAH59997.1"
 Stramenopiles-
 Aureococcus_anophagefferens_jgi25816,939,689.108,0,gi|147902762|ref|NP_001083293
 .1|hypothetical protein LOC398849 [Xenopus laevis] , "
 GO:0016887,GO:0005524,GO:0000166,GO:0017111", "NP_001083293.1,AAH59997.1"
 Stramenopiles-
 Fragilariopsis_cylindrus_jgi169419,1217,867.455,0,gi|170035063|ref|XP_001845391.
 1|conserved hypothetical protein [Culex quinquefasciatus] , "
 GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_001845391.1,EDS40232.1"
 Stramenopiles-Sargassum_binderi_esgi120454329_3,258,363.999,7.64E-
 99,gi|219129518|ref|XP_002184934.1|predicted protein [Phaeodactylum tricornutum
 CCAP 1055/1] , " GO:0016887,GO:0005524", "XP_002184934.1,EEC43670.1"
 Stramenopiles-
 Phaeodactylum_tricornutum_CCAP_1055/1_gi219129518,1312,2690.99,0,gi|219129518|re

f|XP_002184934.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0016887,GO:0005524", "XP_002184934.1,EEC43670.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223996932,1763,3617.78,0,gi|223996932|ref|XP_002288139.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "GO:0016887,GO:0005524,GO:0016020,GO:0055085,GO:0030001,GO:0046873", "XP_002288139.1,EED93575.1"

Stramenopiles-Phytophthora_brassicae_esgi144592094_2,248,405.601,2.09E-111,gi|301117896|ref|XP_002906676.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002906676.1,EEY66077.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219126241,331,682.174,0,gi|219126241|ref|XP_002183370.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0055114,GO:0016491", "XP_002183370.1,EEC45070.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi168477,337,363.229,2.46E-98,gi|219126241|ref|XP_002183370.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0055114,GO:0016491", "XP_002183370.1,EEC45070.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224000109,333,682.559,0,gi|224000109|ref|XP_002289727.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "GO:0055114,GO:0016491", "XP_002289727.1,EED93264.1"

Stramenopiles-Aureococcus_anophagefferens_jgi67678,317,90.8929,1.88E-16,"gi|257454177|ref|ZP_05619448.1|hydrolase, alpha/beta fold family [Enhydrobacter aerosaccus SK60] ", GO:0016787,"ZP_05619448.1,EEV23410.1"

Stramenopiles-Aureococcus_anophagefferens_jgi67319,357,90.8929,2.38E-16,"gi|257454177|ref|ZP_05619448.1|hydrolase, alpha/beta fold family [Enhydrobacter aerosaccus SK60] ", GO:0016787,"ZP_05619448.1,EEV23410.1"

Stramenopiles-Phytophthora_capsici_jgi118634,134,276.559,5.54E-73,"gi|301120402|ref|XP_002907928.1|eukaryotic translation initiation factor 5, putative [Phytophthora infestans T30-4] ", "GO:0003677,GO:0005634,GO:0006413,GO:0045941,GO:0016070,GO:0005515,GO:0003743,GO:0016563,GO:0005488", "XP_002907928.1,EEY61011.1"

Stramenopiles-

Phytophthora_sojae_jgi108320,449,672.159,0,"gi|301120402|ref|XP_002907928.1|eukaryotic translation initiation factor 5, putative [Phytophthora infestans T30-4] ", "GO:0003677,GO:0005634,GO:0006413,GO:0045941,GO:0016070,GO:0005515,GO:0003743,GO:0016563,GO:0005488", "XP_002907928.1,EEY61011.1"

Stramenopiles-Phytophthora_parasitica_esgi68417513_2,305,312.383,4.33E-83,"gi|301120402|ref|XP_002907928.1|eukaryotic translation initiation factor 5, putative [Phytophthora infestans T30-4] ", "GO:0003677,GO:0005634,GO:0006413,GO:0045941,GO:0016070,GO:0005515,GO:0003743,GO:0016563,GO:0005488", "XP_002907928.1,EEY61011.1"

Stramenopiles-Phytophthora_parasitica_esgi68417514_1,242,251.906,4.38E-65,"gi|301120402|ref|XP_002907928.1|eukaryotic translation initiation factor 5, putative [Phytophthora infestans T30-4] ", "GO:0003677,GO:0005634,GO:0006413,GO:0045941,GO:0016070,GO:0005515,GO:0003743,GO:0016563,GO:0005488", "XP_002907928.1,EEY61011.1"

Stramenopiles-Blastocystis_hominis_tdBHL00001500_2,389,619.772,1.72E-175,gi|300176740|emb|CBK24405.2|unnamed protein product [Blastocystis hominis], "GO:0004616,GO:0050662,GO:0050661,GO:0055114,GO:0006098,GO:0016491,GO:0003824,GO:0008152,GO:0005488", "CBK24405.2"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224000295,490,1013.06,0,gi|224000295|ref|XP_002289820.1|6-phosphogluconate dehydrogenase [Thalassiosira pseudonana CCMP1335]

, "
GO:0004616,GO:0050662,GO:0050661,GO:0055114,GO:0006098,GO:0016491,GO:0003824,GO:
0008152,GO:0005488", "XP_002289820.1,EED93357.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219121442,1041,2167.89,0,gi|219121442|re
f|XP_002185945.1|G6PDH/6PGDH fusion protein [Phaeodactylum tricornutum CCAP
1055/1] , "
GO:0004616,GO:0050662,GO:0050661,GO:0055114,GO:0006098,GO:0005975,GO:0004345,GO:
0016491,GO:0003824,GO:0006006,GO:0008152,GO:0005488", "XP_002185945.1,ACI65415.1"
Stramenopiles-
Phytophthora_ramorum_jgi71783,490,983.015,0,gi|301106971|ref|XP_002902568.1|6-
phosphogluconate dehydrogenase [Phytophthora infestans T30-4] , "
GO:0004616,GO:0050662,GO:0050661,GO:0055114,GO:0006098,GO:0016491,GO:0003824,GO:
0008152,GO:0005488", "XP_002902568.1,AAL76320.1,EEY56494.1"
Stramenopiles-
Phytophthora_brassicae_esContig1378_2,433,748.043,0,gi|301106971|ref|XP_00290256
8.1|6-phosphogluconate dehydrogenase [Phytophthora infestans T30-4] , "
GO:0004616,GO:0050662,GO:0050661,GO:0055114,GO:0006098,GO:0016491,GO:0003824,GO:
0008152,GO:0005488", "XP_002902568.1,AAL76320.1,EEY56494.1"
Stramenopiles-
Phytophthora_capsici_jgi57299,490,995.727,0,gi|301106971|ref|XP_002902568.1|6-
phosphogluconate dehydrogenase [Phytophthora infestans T30-4] , "
GO:0004616,GO:0050662,GO:0050661,GO:0055114,GO:0006098,GO:0016491,GO:0003824,GO:
0008152,GO:0005488", "XP_002902568.1,AAL76320.1,EEY56494.1"
Stramenopiles-
Phytophthora_sojae_jgi108585,490,990.719,0,gi|301106971|ref|XP_002902568.1|6-
phosphogluconate dehydrogenase [Phytophthora infestans T30-4] , "
GO:0004616,GO:0050662,GO:0050661,GO:0055114,GO:0006098,GO:0016491,GO:0003824,GO:
0008152,GO:0005488", "XP_002902568.1,AAL76320.1,EEY56494.1"
Stramenopiles-Phytophthora_parasitica_esContig888_1,349,462.996,2.09E-
128,gi|301106971|ref|XP_002902568.1|6-phosphogluconate dehydrogenase
[Phytophthora infestans T30-4] , "
GO:0004616,GO:0050662,GO:0050661,GO:0055114,GO:0006098,GO:0016491,GO:0003824,GO:
0008152,GO:0005488", "XP_002902568.1,AAL76320.1,EEY56494.1"
Stramenopiles-
Phytophthora_sojae_jgi157394,3272,6080.75,0,gi|301101074|ref|XP_002899626.1|dyne
in heavy chain [Phytophthora infestans T30-4] , "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "X
P_002899626.1,EEY61986.1"
Stramenopiles-
Phytophthora_ramorum_jgi94629,3396,6338.06,0,gi|301101074|ref|XP_002899626.1|dyn
ein heavy chain [Phytophthora infestans T30-4] , "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "X
P_002899626.1,EEY61986.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219113331,400,831.632,0,gi|219113331|ref
|XP_002186249.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002186249.1,ACI65719.1"
Stramenopiles-
Phytophthora_ramorum_jgi96286,1238,1097.03,0,gi|301118570|ref|XP_002907013.1|bar
det-Biedl syndrome 1 family protein [Phytophthora infestans T30-4]
,, "XP_002907013.1,EEY66414.1"
Stramenopiles-
Phytophthora_sojae_jgi136833,876,1107.05,0,gi|301118570|ref|XP_002907013.1|barde

t-Biedl syndrome 1 family protein [Phytophthora infestans T30-4]
,, "XP_002907013.1,EEY66414.1"
Stramenopiles-
Phytophthora parasitica_esContig1400_1,454,747.273,0,gi|301107486|ref|XP_002902825.1|long-chain-fatty-acid-CoA ligase [Phytophthora infestans T30-4] ,"
GO:0016874,GO:0008152,GO:0003824", "XP_002902825.1,EEY55995.1"
Stramenopiles-Phytophthora brassicae_esContig829_2,333,585.489,2.57E-165,gi|301107486|ref|XP_002902825.1|long-chain-fatty-acid-CoA ligase [Phytophthora infestans T30-4] ,"
GO:0016874,GO:0008152,GO:0003824", "XP_002902825.1,EEY55995.1"
Stramenopiles-Phytophthora parasitica_esgi222380192_2,281,509.605,1.34E-142,"gi|301121692|ref|XP_002908573.1|long-chain-fatty-acid-CoA ligase, putative [Phytophthora infestans T30-4] ", "
GO:0016874,GO:0008152,GO:0003824", "XP_002908573.1,EEY61656.1"
Stramenopiles-
Phytophthora sojae_jgi136217,1417,850.507,0,gi|301120155|ref|XP_002907805.1|sporangia induced Bardet-Biedl syndrome 4 protein [Phytophthora infestans T30-4] ,
GO:0005488,"XP_002907805.1,EEY64369.1"
Stramenopiles-
Phytophthora ramorum_jgi80509,393,644.81,0,gi|301120147|ref|XP_002907801.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0051082,GO:0046872,GO:0005524,GO:0005737,GO:0006457,GO:0009408,GO:0031072", "XP_002907801.1,EEY64365.1"
Stramenopiles-Phytophthora parasitica_esContig15_1,256,401.749,3.60E-110,gi|301120147|ref|XP_002907801.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0051082,GO:0046872,GO:0005524,GO:0005737,GO:0006457,GO:0009408,GO:0031072", "XP_002907801.1,EEY64365.1"
Stramenopiles-
Phytophthora capsici_jgi113846,389,654.44,0,gi|301120147|ref|XP_002907801.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0051082,GO:0046872,GO:0005524,GO:0005737,GO:0006457,GO:0009408,GO:0031072", "XP_002907801.1,EEY64365.1"
Stramenopiles-Phytophthora brassicae_esgi144598969_2,240,415.616,2.21E-114,gi|301106016|ref|XP_002902091.1|D-3-phosphoglycerate dehydrogenase [Phytophthora infestans T30-4] ,"
GO:0051287,GO:0055114,GO:0016597,GO:0016616,GO:0016491,GO:0003824,GO:0048037,GO:0008152,GO:0005488", "XP_002902091.1,EEY56763.1"
Stramenopiles-
Thalassiosira pseudonana_CCMP1335_gi223993205,452,919.457,0,gi|223993205|ref|XP_002286286.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0030529,GO:0003676,GO:0000166,GO:0005525,GO:0005737,GO:0005524,GO:0031072,GO:0009408,GO:0006457,GO:0003924,GO:0046872,GO:0051082", "XP_002286286.1,EED95927.1"
Stramenopiles-
Phaeodactylum tricornutum_CCAP_1055/1_gi219120919,447,914.835,0,gi|219120919|ref|XP_002185691.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0051082,GO:0046872,GO:0005524,GO:0005737,GO:0006457,GO:0009408,GO:0031072", "XP_002185691.1,ACI65161.1"
Stramenopiles-Aureococcus anophagefferens_jgi68202,734,243.817,5.22E-62,gi|299471455|emb|CBN79406.1|conserved unknown protein [Ectocarpus siliculosus] , ,CBN79406.1
Stramenopiles-Aureococcus anophagefferens_jgi68227,540,240.35,4.95E-61,gi|299471455|emb|CBN79406.1|conserved unknown protein [Ectocarpus siliculosus] , ,CBN79406.1

Stramenopiles-Fragilariopsis_cylindrus_jgi240465,312,124.405,1.48E-26,gi|167522583|ref|XP_001745629.1|hypothetical protein [Monosiga brevicollis MX1] , " GO:0008152,GO:0003824,GO:0008484", "XP_001745629.1,EDQ89600.1"

Stramenopiles-
Phytophthora_ramorum_jgi76390,513,833.173,0,gi|301120450|ref|XP_002907952.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002907952.1,EEY61035.1"

Stramenopiles-
Phytophthora_capsici_jgi13559,423,702.205,0,gi|301120450|ref|XP_002907952.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002907952.1,EEY61035.1"

Stramenopiles-
Phytophthora_sojae_jgi128942,530,868.611,0,gi|301120450|ref|XP_002907952.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002907952.1,EEY61035.1"

Stramenopiles-Aureococcus_anophagefferens_jgi66010,1224,109.768,2.38E-21,gi|308178988|ref|YP_003918394.1|putative RNA polymerase sigma factor [Arthrobacter arilaitensis Rel17] , , "YP_003918394.1,CBT77423.1"

Stramenopiles-Phytophthora_sojae_jgi138218,288,540.036,1.18E-151,gi|301110238|ref|XP_002904199.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002904199.1,EEY54377.1"

Stramenopiles-Phytophthora_capsici_jgi8092,295,507.679,6.71E-142,gi|301110238|ref|XP_002904199.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002904199.1,EEY54377.1"

Stramenopiles-Phytophthora_ramorum_jgi81299,238,392.119,2.34E-107,gi|301110238|ref|XP_002904199.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002904199.1,EEY54377.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi233182,388,169.859,5.04E-40,gi|224001040|ref|XP_002290192.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002290192.1,EED91944.1"

Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219110473,380,789.645,0,gi|219110473|ref|XP_002176988.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002176988.1,EEC51451.1"

Stramenopiles-Aureococcus_anophagefferens_jgi28349,301,332.413,3.57E-89,gi|307545337|ref|YP_003897816.1|hypothetical protein HELO_2747 [Halomonas elongata DSM 2581] , , "YP_003897816.1,CBV42631.1"

Stramenopiles-
Phytophthora_ramorum_jgi79274,801,1124.77,0,gi|301119839|ref|XP_002907647.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002907647.1,EEY64211.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223998208,1222,2531.13,0,gi|223998208|ref|XP_002288777.1|hypothetical protein THAPSDRAFT_268455 [Thalassiosira pseudonana CCMP1335] , GO:0005488, "XP_002288777.1,EED94213.1"

Stramenopiles-
Fragilariopsis_cylindrus_jgi180589,1275,996.882,0,gi|219112405|ref|XP_002177954.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , GO:0005488, "XP_002177954.1,EEC50768.1"

Stramenopiles-
Phytophthora_sojae_jgi135013,2990,4768.76,0,gi|301119945|ref|XP_002907700.1|U3 small nucleolar RNA-associated protein, putative [Phytophthora infestans T30-4] , GO:0005488, "XP_002907700.1,EEY64264.1"

Stramenopiles-
Phytophthora_capsici_jgi69341,2627,3496.83,0,gi|301119945|ref|XP_002907700.1|U3

small nucleolar RNA-associated protein, putative [Phytophthora infestans T30-4]
", GO:0005488,"XP_002907700.1,EEY64264.1"
Stramenopiles-
Phytophthora_ramorum_jgi80598,2998,4711.75,0,"gi|301119945|ref|XP_002907700.1|U3
small nucleolar RNA-associated protein, putative [Phytophthora infestans T30-4]
", GO:0005488,"XP_002907700.1,EEY64264.1"
Stramenopiles-
Phytophthora_sojae_jgi135755,480,772.311,0,gi|301111536|ref|XP_002904847.1|conse
rved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002904847.1,EEY53229.1"
Stramenopiles-
Phytophthora_ramorum_jgi79860,477,767.689,0,gi|301111536|ref|XP_002904847.1|cons
erved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002904847.1,EEY53229.1"
Stramenopiles-Aureococcus_anophagefferens_jgi68742,501,57.3806,5.36E-
06,gi|301111536|ref|XP_002904847.1|conserved hypothetical protein [Phytophthora
infestans T30-4] ,, "XP_002904847.1,EEY53229.1"
Stramenopiles-Aureococcus_anophagefferens_jgi70664,1557,172.17,4.36E-
40,gi|72077009|ref|XP_788875.1|PREDICTED: similar to elaC homolog 1
[Strongylocentrotus purpuratus] ,, "XP_788875.1,XP_001189573.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219115798,268,550.051,1.01E-
154,gi|219115798|ref|XP_002178694.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] ,, "XP_002178694.1,EEC49392.1"
Stramenopiles-
Phytophthora_ramorum_jgi96000,487,939.488,0,"gi|301117854|ref|XP_002906655.1|6-
phosphofructokinase, putative [Phytophthora infestans T30-4] ", "
GO:0016301,GO:0005524,GO:0003872,GO:0006096,GO:0005945", "XP_002906655.1,EEY66056
.1"
Stramenopiles-
Phytophthora_capsici_jgi92116,509,991.49,0,"gi|301117854|ref|XP_002906655.1|6-
phosphofructokinase, putative [Phytophthora infestans T30-4] ", "
GO:0016301,GO:0005524,GO:0003872,GO:0006096,GO:0005945", "XP_002906655.1,EEY66056
.1"
Stramenopiles-
Phytophthora_sojae_jgi134835,492,937.562,0,"gi|301117854|ref|XP_002906655.1|6-
phosphofructokinase, putative [Phytophthora infestans T30-4] ", "
GO:0016301,GO:0005524,GO:0003872,GO:0006096,GO:0005945", "XP_002906655.1,EEY66056
.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219130302,563,1159.44,0,gi|219130302|ref
|XP_002185307.1|pyrophosphate-dependent phosphofructose kinase [Phaeodactylum
tricornutum CCAP 1055/1] , "
GO:0016301,GO:0005524,GO:0003872,GO:0006096,GO:0005945", "XP_002185307.1,EEC43176
.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219130304,515,1065.45,0,gi|219130304|ref
|XP_002185308.1|phosphofructokinase [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0016301,GO:0005524,GO:0003872,GO:0006096,GO:0005945", "XP_002185308.1,EEC43177
.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi149102,378,650.973,0,gi|219123551|ref|XP_002182086.1
|pyrophosphate-dependent phosphofructose kinase [Phaeodactylum tricornutum CCAP
1055/1] , "

GO:0016301,GO:0005524,GO:0003872,GO:0006096,GO:0005945", "XP_002182086.1,EEC46626.1"

Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219123551,564,1182.55,0,gi|219123551|ref|XP_002182086.1|pyrophosphate-dependent phosphofructose kinase [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0016301,GO:0005524,GO:0003872,GO:0006096,GO:0005945", "XP_002182086.1,EEC46626.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223992985,394,815.839,0,gi|223992985|ref|XP_002286176.1|6-phosphofructokinase [Thalassiosira pseudonana CCMP1335] ,"

GO:0016301,GO:0005524,GO:0016740,GO:0047334,GO:0003872,GO:0006096,GO:0005945", "XP_002286176.1,EED95817.1"

Stramenopiles-Aureococcus_anophagefferens_jgi31362,484,514.612,1.12E-143,gi|219123551|ref|XP_002182086.1|pyrophosphate-dependent phosphofructose kinase [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0016301,GO:0005524,GO:0003872,GO:0006096,GO:0005945", "XP_002182086.1,EEC46626.1"

Stramenopiles-Aureococcus_anophagefferens_jgi2184,398,342.813,4.60E-92,gi|225445037|ref|XP_002283274.1|PREDICTED: hypothetical protein [Vitis vinifera],,XP_002283274.1

Stramenopiles-
Phytophthora_ramorum_jgi84880,1498,1481.46,0,gi|301102899|ref|XP_002900536.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0005509,GO:0005515", "XP_002900536.1,EEY59851.1"

Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219113539,132,259.225,8.93E-68,gi|219113539|ref|XP_002186353.1|calcium binding protein [Phaeodactylum tricornutum CCAP 1055/1] , GO:0005509,"XP_002186353.1,ACI65823.1"

Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219129758,154,307.375,3.33E-82,gi|219129758|ref|XP_002185048.1|calmodulin [Phaeodactylum tricornutum CCAP 1055/1] , GO:0005509,"XP_002185048.1,EEC43495.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224006039,518,1075.46,0,gi|224006039|ref|XP_002291980.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"

GO:0016491,GO:0005509", "XP_002291980.1,EED90831.1"

Stramenopiles-
Aureococcus_anophagefferens_jgi72359,745,681.019,0,gi|219124450|ref|XP_002182516.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0055114,GO:0009331,GO:0016491,GO:0004368,GO:0006072", "XP_002182516.1,EEC45803.1"

Stramenopiles-Phytophthora_sojae_jgi144939,152,64.6994,3.86E-09,gi|301109387|ref|XP_002903774.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0005509,GO:0004518,GO:0003677", "XP_002903774.1,EEY54829.1"

Stramenopiles-
Phytophthora_ramorum_jgi75633,1515,2412.49,0,gi|301114397|ref|XP_002998968.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0005509,"XP_002998968.1,EEY69114.1"

Stramenopiles-Aureococcus_anophagefferens_jgi72273,733,86.6557,1.13E-14,"gi|255567395|ref|XP_002524677.1|Anaphase-promoting complex subunit, putative [Ricinus communis] ",,"XP_002524677.1,EEF37696.1"

Stramenopiles-
Phytophthora_capsici_jgi103670,465,771.926,0,"gi|301113914|ref|XP_002998727.1|ad

enylyl cyclase-associated protein, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0003779,GO:0007010", "XP_002998727.1,EEY70080.1"
Stramenopiles-
Phytophthora_ramorum_jgi79564,728,760.37,0,"gi|301113914|ref|XP_002998727.1|aden
ylyl cyclase-associated protein, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0003779,GO:0007010", "XP_002998727.1,EEY70080.1"
Stramenopiles-
Phytophthora_sojae_jgi158145,666,754.592,0,"gi|301113914|ref|XP_002998727.1|aden
ylyl cyclase-associated protein, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0003779,GO:0007010", "XP_002998727.1,EEY70080.1"
Stramenopiles-Phytophthora_brassicae_esContig1522_1,154,196.823,6.66E-
49,"gi|301115406|ref|XP_002905432.1|arginine biosynthesis bifunctional protein
argJ, putative [Phytophthora infestans T30-4] ", "
GO:0005739,GO:0004358,GO:0016740,GO:0008415,GO:0005759,GO:0003824,GO:0008652,GO:
0006526", "XP_002905432.1,D0N1U4.1,EEY68273.1"
Stramenopiles-
Phytophthora_sojae_jgi142184,467,879.782,0,"gi|301115406|ref|XP_002905432.1|argi
nine biosynthesis bifunctional protein argJ, putative [Phytophthora infestans
T30-4] ", "
GO:0005739,GO:0004358,GO:0016740,GO:0008415,GO:0005759,GO:0003824,GO:0008652,GO:
0006526", "XP_002905432.1,D0N1U4.1,EEY68273.1"
Stramenopiles-Phytophthora_parasitica_esgi222374224_5,184,281.182,3.35E-
74,"gi|301115406|ref|XP_002905432.1|arginine biosynthesis bifunctional protein
argJ, putative [Phytophthora infestans T30-4] ", "
GO:0005739,GO:0004358,GO:0016740,GO:0008415,GO:0005759,GO:0003824,GO:0008652,GO:
0006526", "XP_002905432.1,D0N1U4.1,EEY68273.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi185131,465,593.578,1.56E-
167,gi|223996635|ref|XP_002287991.1|predicted protein [Thalassiosira pseudonana
CCMP1335] , "
GO:0005739,GO:0004358,GO:0016740,GO:0008415,GO:0005759,GO:0003824,GO:0008652,GO:
0006526", "XP_002287991.1,B8BVB6.1,EED95434.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223996635,488,998.038,0,gi|223996635|ref|XP_
002287991.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
GO:0005739,GO:0004358,GO:0016740,GO:0008415,GO:0005759,GO:0003824,GO:0008652,GO:
0006526", "XP_002287991.1,B8BVB6.1,EED95434.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi38538,1597,1872.06,0,gi|224009263|ref|XP_00229359
0.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
GO:0055114,GO:0006807,GO:0016491,GO:0008152,GO:0003824,GO:0015930,GO:0006537", "X
P_002293590.1,EED89326.1"
Stramenopiles-
Phytophthora_ramorum_jgi71073,383,705.671,0,"gi|301114981|ref|XP_002999260.1|GTP
ase, putative [Phytophthora infestans T30-4] ", "
GO:0005525,GO:0000166,GO:0005622", "XP_002999260.1,EEY69406.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219109989,407,833.558,0,gi|219109989|ref
|XP_002176747.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0005525,GO:0000166,GO:0005622", "XP_002176747.1,EEC51210.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224013052,377,783.097,0,gi|224013052|ref|XP_
002295178.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
GO:0005525,GO:0000166,GO:0005622", "XP_002295178.1,EED87482.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219130227,373,776.163,0,gi|219130227|ref

|XP_002185271.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0005525,GO:0000166,GO:0005622", "XP_002185271.1,EEC43140.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi198500,377,635.95,2.37E-
180,gi|219130227|ref|XP_002185271.1|predicted protein [Phaeodactylum tricorutum
CCAP 1055/1] , " GO:0005525,GO:0000166,GO:0005622", "XP_002185271.1,EEC43140.1"
Stramenopiles-Aureococcus_anophagefferens_jgi29702,370,525.013,5.31E-
147,gi|219130227|ref|XP_002185271.1|predicted protein [Phaeodactylum tricorutum
CCAP 1055/1] , " GO:0005525,GO:0000166,GO:0005622", "XP_002185271.1,EEC43140.1"
Stramenopiles-
Phytophthora_sojae_jgi108292,369,716.072,0,gi|301095226|ref|XP_002896714.1|devel
opmentally-regulated GTP-binding protein 1 [Phytophthora infestans T30-4] ,"
GO:0005525,GO:0000166,GO:0005622", "XP_002896714.1,EEY66827.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223994011,385,787.334,0,gi|223994011|ref|XP_
002286689.1|hypothetical protein THAPSDRAFT_260852 [Thalassiosira pseudonana
CCMP1335] , , "XP_002286689.1,EED96330.1"
Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219121021,455,939.873,0,gi|219121021|ref
|XP_002185742.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1]
 , , "XP_002185742.1,ACI65212.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi225224,367,350.517,1.64E-
94,gi|219121021|ref|XP_002185742.1|predicted protein [Phaeodactylum tricorutum
CCAP 1055/1] , , "XP_002185742.1,ACI65212.1"
Stramenopiles-Phytophthora_ramorum_jgi51599,347,521.931,4.12E-
146,gi|301119119|ref|XP_002907287.1|conserved hypothetical protein [Phytophthora
infestans T30-4] , , "XP_002907287.1,EEY63851.1"
Stramenopiles-Blastocystis_hominis_tbBHL00001824_1,321,493.426,1.55E-
137,gi|300121328|emb|CBK21708.2|unnamed protein product [Blastocystis hominis] ,"
GO:0006508,GO:0016787,GO:0008234,GO:0008233,GO:0004197",CBK21708.2
Stramenopiles-Aureococcus_anophagefferens_jgi21060,314,219.55,3.63E-
55,gi|157093355|gb|ABV22332.1|cysteine protease 1 [Noctiluca scintillans] ,"
GO:0006508,GO:0016787,GO:0008234,GO:0008233,GO:0004197",ABV22332.1
Stramenopiles-Phytophthora_capsici_jgi85800,305,467.233,8.74E-
130,gi|66270077|gb|AA43368.1|cysteine protease [Phytophthora infestans] ,"
GO:0006508,GO:0008234,GO:0008233,GO:0004197",AA43368.1
Stramenopiles-
Phytophthora_sojae_jgi142383,534,960.674,0,"gi|301116794|ref|XP_002906125.1|cyst
eine protease family C01A, putative [Phytophthora infestans T30-4] " ,"
GO:0006508,GO:0008234,GO:0008233,GO:0004197", "XP_002906125.1,EEY65526.1"
Stramenopiles-
Phytophthora_brassicae_esContig702_3,391,650.973,0,"gi|301116794|ref|XP_00290612
5.1|cysteine protease family C01A, putative [Phytophthora infestans T30-4] " ,"
GO:0006508,GO:0008234,GO:0008233,GO:0004197", "XP_002906125.1,EEY65526.1"
Stramenopiles-
Phytophthora_ramorum_jgi77898,537,958.362,0,"gi|301116794|ref|XP_002906125.1|cys
teine protease family C01A, putative [Phytophthora infestans T30-4] " ,"
GO:0006508,GO:0008234,GO:0008233,GO:0004197", "XP_002906125.1,EEY65526.1"
Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219112639,360,757.673,0,gi|219112639|ref
|XP_002178071.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0006508,GO:0016787,GO:0008234,GO:0008233,GO:0004197", "XP_002178071.1,EEC50885
.1"
Stramenopiles-Aureococcus_anophagefferens_jgi34120,166,123.635,6.88E-
27,gi|18481461|gb|AAL73456.1|AF451862_lendonuclease [Tetrahymena thermophila] ,"

GO:0006355,GO:0003676,GO:0016788,GO:0004519,GO:0005634,GO:0003700,GO:0003677",AA
L73456.1
Stramenopiles-Aureococcus_anophagefferens_jgi33571,166,127.102,6.07E-
28,gi|18481487|gb|AAL73479.1|AF451865_5endonuclease [Tetrahymena thermophila],"
GO:0006355,GO:0016788,GO:0004519,GO:0005634,GO:0003700,GO:0003677",AAL73479.1
Stramenopiles-Aureococcus_anophagefferens_jgi71879,757,153.295,1.14E-
34,gi|219119770|ref|XP_002180638.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] ,,"XP_002180638.1,EEC48046.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi259567,434,108.227,2.15E-
21,gi|219119770|ref|XP_002180638.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] ,,"XP_002180638.1,EEC48046.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219119770,326,681.789,0,gi|219119770|ref
|XP_002180638.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]
 ,,"XP_002180638.1,EEC48046.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223995035,289,599.742,1.09E-
169,gi|223995035|ref|XP_002287201.1|predicted protein [Thalassiosira pseudonana
CCMP1335] ,,"XP_002287201.1,EED94644.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi273855,272,305.834,2.98E-
81,gi|219123561|ref|XP_002182091.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] ,,"XP_002182091.1,EEC46631.1"
Stramenopiles-Phytophthora_sojae_jgi137328,242,449.899,1.15E-
124,gi|301109944|ref|XP_002904052.1|conserved hypothetical protein [Phytophthora
infestans T30-4] ,,"XP_002904052.1,EEY54230.1"
Stramenopiles-Phytophthora_ramorum_jgi82193,241,442.965,1.21E-
122,gi|301109944|ref|XP_002904052.1|conserved hypothetical protein [Phytophthora
infestans T30-4] ,,"XP_002904052.1,EEY54230.1"
Stramenopiles-Phytophthora_capsici_jgi98918,240,453.751,7.57E-
126,gi|301109944|ref|XP_002904052.1|conserved hypothetical protein [Phytophthora
infestans T30-4] ,,"XP_002904052.1,EEY54230.1"
Stramenopiles-Phytophthora_ramorum_jgi74294,261,433.335,1.15E-
119,gi|301116339|ref|XP_002905898.1|conserved hypothetical protein [Phytophthora
infestans T30-4] ,,"XP_002905898.1,EEY67250.1"
Stramenopiles-
Phytophthora_sojae_jgi158217,1430,1725.68,0,gi|301113380|ref|XP_002998460.1|myot
ubularin-like protein [Phytophthora infestans T30-4] ,"
GO:0016791,GO:0016311,GO:0004725",,"XP_002998460.1,EEY69813.1"
Stramenopiles-Phytophthora_capsici_jgi96698,291,452.21,2.69E-
125,gi|301113384|ref|XP_002998462.1|conserved hypothetical protein [Phytophthora
infestans T30-4] ,,"XP_002998462.1,EEY69815.1"
Stramenopiles-
Phytophthora_ramorum_jgi95843,1303,1530,0,gi|301113380|ref|XP_002998460.1|myotub
ularin-like protein [Phytophthora infestans T30-4] ,"
GO:0016791,GO:0016311,GO:0004725",,"XP_002998460.1,EEY69813.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi179103,421,380.178,2.56E-
103,gi|86278368|gb|ABC88435.1|acid alpha galactosidase 2 [Cucumis sativus],"
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0043169,GO:0016798,GO:0003824,GO:
0004557",ABC88435.1
Stramenopiles-
Phytophthora_ramorum_jgi77908,697,1244.57,0,gi|301116820|ref|XP_002906138.1|clea
vage induced conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0008270",,"XP_002906138.1,EEY65539.1"
Stramenopiles-
Phytophthora_sojae_jgi142373,699,1243.02,0,gi|301116820|ref|XP_002906138.1|cleav

age induced conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0008270", "XP_002906138.1,EEY65539.1"
Stramenopiles-
Phytophthora_sojae_jgi141860,689,997.653,0,gi|301121949|ref|XP_002908701.1|con-
served hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0008270", "XP_002908701.1,EEY57515.1"
Stramenopiles-Aureococcus_anophagefferens_jgi63725,3212,167.162,3.57E-
38,gi|167390078|ref|XP_001739198.1|Rho/RAC guanine nucleotide exchange factor
[Entamoeba dispar SAW760] ,"
GO:0046872,GO:0016740,GO:0005089,GO:0000285,GO:0035023,GO:0008270,GO:0005622,GO:
0005085", "XP_001739198.1,EDR24412.1"
Stramenopiles-
Phytophthora_capsici_jgi113416,493,853.588,0,gi|301114603|ref|XP_002999071.1|con-
served hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0015485,GO:0017127,GO:0008270,GO:0006694", "XP_002999071.1,EEY69217
.1"
Stramenopiles-
Phytophthora_ramorum_jgi96057,2151,1374.76,0,gi|301112847|ref|XP_002998194.1|con-
served hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002998194.1,EEY70540.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219128950,151,315.849,7.78E-
85,gi|219128950|ref|XP_002184663.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , GO:0016787,"XP_002184663.1,EEC43722.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi191760,158,222.246,1.21E-
56,gi|219128950|ref|XP_002184663.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , GO:0016787,"XP_002184663.1,EEC43722.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223992803,203,421.394,2.35E-
116,gi|223992803|ref|XP_002286085.1|hypothetical protein THAPSDRAFT_1165
[Thalassiosira pseudonana CCMP1335] , GO:0016787,"XP_002286085.1,EED95726.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi186913,229,279.641,1.56E-
73,gi|219113239|ref|XP_002186203.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , GO:0016787,"XP_002186203.1,ACI65673.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223994039,198,407.527,3.32E-
112,gi|223994039|ref|XP_002286703.1|predicted protein [Thalassiosira pseudonana
CCMP1335] , GO:0016787,"XP_002286703.1,EED96344.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219113239,199,410.994,3.18E-
113,gi|219113239|ref|XP_002186203.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , GO:0016787,"XP_002186203.1,ACI65673.1"
Stramenopiles-Aureococcus_anophagefferens_jgi18344,229,273.863,9.77E-
72,gi|167538660|ref|XP_001750992.1|hypothetical protein [Monosiga brevicollis
MX1] , GO:0016787,"XP_001750992.1,EDQ84204.1"
Stramenopiles-Phytophthora_capsici_jgi115837,191,377.481,3.94E-
103,gi|301117860|ref|XP_002906658.1|inosine triphosphate pyrophosphatase
[Phytophthora infestans T30-4] , GO:0016787,"XP_002906658.1,EEY66059.1"
Stramenopiles-Phytophthora_ramorum_jgi71914,191,381.333,2.71E-
104,gi|301117860|ref|XP_002906658.1|inosine triphosphate pyrophosphatase
[Phytophthora infestans T30-4] , GO:0016787,"XP_002906658.1,EEY66059.1"
Stramenopiles-Phytophthora_sojae_jgi108811,191,380.563,4.82E-
104,gi|301117860|ref|XP_002906658.1|inosine triphosphate pyrophosphatase
[Phytophthora infestans T30-4] , GO:0016787,"XP_002906658.1,EEY66059.1"
Stramenopiles-
Phytophthora_capsici_jgi1707,623,1122.07,0,gi|301100780|ref|XP_002899479.1|Volta-
ge-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"

GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "XP_002899479.1,EEY61839.1"
Stramenopiles-
Phytophthora_ramorum_jgi96106,1152,1044.26,0,gi|301100780|ref|XP_002899479.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "XP_002899479.1,EEY61839.1"
Stramenopiles-Aureococcus_anophagefferens_jgi64816,823,225.328,2.41E-56,gi|255073051|ref|XP_002500200.1|voltage-gated ion channel superfamily [Micromonas sp. RCC299] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "XP_002500200.1,ACO61458.1"
Stramenopiles-Aureococcus_anophagefferens_jgi67061,865,325.865,1.38E-86,gi|303280485|ref|XP_003059535.1|voltage-gated ion channel superfamily [Micromonas pusilla CCMP1545] ,"
GO:0005216,GO:0016021,GO:0016020,GO:0006813,GO:0006811,GO:0006810,GO:0055114,GO:0016491,GO:0003824,GO:0055085,GO:0008152,GO:0005249,GO:0005488", "XP_003059535.1,EEH56667.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi191917,313,211.075,1.20E-52,gi|219128283|ref|XP_002184346.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0055114,GO:0005488,GO:0008152,GO:0003824,GO:0004735,GO:0006561", "XP_002184346.1,EEC44095.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224004890,306,637.491,0,gi|224004890|ref|XP_002296096.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005488,GO:0008152,GO:0003824", "XP_002296096.1,ACI64813.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219128283,339,700.279,0,gi|219128283|ref|XP_002184346.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0055114,GO:0005488,GO:0008152,GO:0003824,GO:0004735,GO:0006561", "XP_002184346.1,EEC44095.1"
Stramenopiles-Phytophthora_parasitica_esgi68418750_1,267,461.07,6.05E-128,"gi|301121660|ref|XP_002908557.1|enoyl-[acyl-carrier-protein] reductase [NADH], putative [Phytophthora infestans T30-4] ", "
GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0004318,GO:0003824,GO:0006633", "XP_002908557.1,EEY61640.1"
Stramenopiles-Phytophthora_capsici_jgi19332,276,447.588,6.98E-124,"gi|301121660|ref|XP_002908557.1|enoyl-[acyl-carrier-protein] reductase [NADH], putative [Phytophthora infestans T30-4] ", "
GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0004318,GO:0003824,GO:0006633", "XP_002908557.1,EEY61640.1"
Stramenopiles-Phytophthora_ramorum_jgi45002,261,425.631,2.14E-117,"gi|301121660|ref|XP_002908557.1|enoyl-[acyl-carrier-protein] reductase [NADH], putative [Phytophthora infestans T30-4] ", "
GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0004318,GO:0003824,GO:0006633", "XP_002908557.1,EEY61640.1"
Stramenopiles-Phytophthora_brassicae_esContig625_3,249,397.127,8.42E-109,"gi|301121660|ref|XP_002908557.1|enoyl-[acyl-carrier-protein] reductase [NADH], putative [Phytophthora infestans T30-4] ", "
GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0004318,GO:0003824,GO:0006633", "XP_002908557.1,EEY61640.1"
Stramenopiles-Phytophthora_sojae_jgi137179,272,441.425,5.24E-122,"gi|301121660|ref|XP_002908557.1|enoyl-[acyl-carrier-protein] reductase [NADH], putative [Phytophthora infestans T30-4] ", "

GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0004318,GO:0003824,GO:0006633","X
P_002908557.1,EEY61640.1"
Stramenopiles-Aureococcus_anophagefferens_jgi12528,327,220.32,2.02E-
55,gi|41054147|ref|NP_956135.1|glucosamine (N-acetyl)-6-sulfatase b [Danio
rerio] ,"
GO:0005764,GO:0008152,GO:0008449,GO:0003824,GO:0008484","NP_956135.1,AAH45323.1,
AAI64157.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi157083,383,260.766,2.08E-
67,gi|163793311|ref|ZP_02187286.1|sulfatase [alpha proteobacterium BAL199] ,"
GO:0008152,GO:0008449,GO:0003824,GO:0008484,GO:0030203","ZP_02187286.1,EDP65628.
1"
Stramenopiles-Fragilariopsis_cylindrus_jgi247897,631,258.07,2.50E-
66,gi|167520137|ref|XP_001744408.1|hypothetical protein [Monosiga brevicollis
MX1] ,"
GO:0008152,GO:0008449,GO:0003824,GO:0008484,GO:0030203","XP_001744408.1,EDQ91111
.1"
Stramenopiles-Aureococcus_anophagefferens_jgi27956,448,296.59,3.66E-
78,gi|167521003|ref|XP_001744840.1|hypothetical protein [Monosiga brevicollis
MX1] ,"
GO:0005764,GO:0008152,GO:0008449,GO:0003824,GO:0008484,GO:0030203","XP_001744840
.1,EDQ90073.1"
Stramenopiles-Aureococcus_anophagefferens_jgi62077,538,237.269,4.17E-
60,gi|313224745|emb|CBY20536.1|unnamed protein product [Oikopleura
dioica],,CBY20536.1
Stramenopiles-Aureococcus_anophagefferens_jgi65345,268,116.701,2.21E-
24,gi|118469999|ref|YP_888676.1|phosphonoacetaldehyde hydrolase [Mycobacterium
smegmatis str. MC2 155] ,"
GO:0016787,GO:0008152,GO:0003824","YP_888676.1,ABK72182.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223997872,295,605.134,2.57E-
171,gi|223997872|ref|XP_002288609.1|predicted protein [Thalassiosira pseudonana
CCMP1335] , " GO:0008152,GO:0003824","XP_002288609.1,EED94045.1"
Stramenopiles-
Phytophthora_capsici_jgi105159,856,1466.06,0,gi|301103201|ref|XP_002900687.1|con
served hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0008270,GO:0005622","XP_002900687.1,EEY60002.1"
Stramenopiles-
Phytophthora_ramorum_jgi76587,810,1356.66,0,gi|301103201|ref|XP_002900687.1|cons
erved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0008270,GO:0005622","XP_002900687.1,EEY60002.1"
Stramenopiles-
Phytophthora_ramorum_jgi79185,633,1201.81,0,"gi|301119661|ref|XP_002907558.1|sod
ium/glucose cotransporter, putative [Phytophthora infestans T30-4] ", "
GO:0016021,GO:0016020,GO:0006814,GO:0055085,GO:0006811,GO:0006810,GO:0005215","X
P_002907558.1,EEY64122.1"
Stramenopiles-
Phytophthora_ramorum_jgi86098,542,987.638,0,"gi|301119661|ref|XP_002907558.1|sod
ium/glucose cotransporter, putative [Phytophthora infestans T30-4] ", "
GO:0016021,GO:0016020,GO:0006814,GO:0055085,GO:0006811,GO:0006810,GO:0005215","X
P_002907558.1,EEY64122.1"
Stramenopiles-
Phytophthora_capsici_jgi100988,633,1230.31,0,"gi|301119661|ref|XP_002907558.1|so
dium/glucose cotransporter, putative [Phytophthora infestans T30-4] ", "
GO:0016021,GO:0016020,GO:0006814,GO:0055085,GO:0006811,GO:0006810,GO:0005215","X
P_002907558.1,EEY64122.1"

Stramenopiles-

Phytophthora_sojae_jgi139077,643,1188.33,0,"gi|301119661|ref|XP_002907558.1|sodium/glucose cotransporter, putative [Phytophthora infestans T30-4] ","GO:0016021,GO:0016020,GO:0006814,GO:0055085,GO:0006811,GO:0006810,GO:0005215","XP_002907558.1,EEY64122.1"

Stramenopiles-Phytophthora_ramorum_jgi86366,398,301.212,1.47E-79,"gi|157106769|ref|XP_001649474.1|ankyrin 2,3/unc44 [Aedes aegypti] ","XP_001649474.1,EAT33004.1"

Stramenopiles-Phytophthora_ramorum_jgi83969,398,300.827,1.80E-79,"gi|157106769|ref|XP_001649474.1|ankyrin 2,3/unc44 [Aedes aegypti] ","XP_001649474.1,EAT33004.1"

Stramenopiles-Phytophthora_sojae_jgi131198,776,491.115,2.10E-136,"gi|157106769|ref|XP_001649474.1|ankyrin 2,3/unc44 [Aedes aegypti] ","XP_001649474.1,EAT33004.1"

Stramenopiles-Phytophthora_ramorum_jgi83968,1017,619.387,7.10E-175,"gi|115675516|ref|XP_798907.2|PREDICTED: similar to ankyrin 2,3/unc44, partial [Strongylocentrotus purpuratus]","XP_798907.2"

Stramenopiles-Phytophthora_sojae_jgi131912,310,206.453,2.74E-51,"gi|157106769|ref|XP_001649474.1|ankyrin 2,3/unc44 [Aedes aegypti] ","XP_001649474.1,EAT33004.1"

Stramenopiles-Phytophthora_sojae_jgi143949,1335,478.019,3.87E-132,"gi|301099225|ref|XP_002898704.1|conserved hypothetical protein [Phytophthora infestans T30-4] ","GO:0005524,GO:0004672,GO:0006468,GO:0004674","XP_002898704.1,EEY62829.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223996291,853,1764.59,0,"gi|223996291|ref|XP_002287819.1|predicted protein [Thalassiosira pseudonana CCMP1335] ","GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810","XP_002287819.1,EED95262.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi197260,246,308.531,4.19E-82,"gi|219112943|ref|XP_002186055.1|bacterial type voltage activated sodium channel [Phaeodactylum tricorutum CCAP 1055/1] ","GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810","XP_002186055.1,ACI65525.1"

Stramenopiles-

Phaeodactylum_tricorutum_CCAP_1055/1_gi219113409,718,1473.37,0,"gi|219113409|ref|XP_002186288.1|bacterial type voltage activated sodium channel [Phaeodactylum tricorutum CCAP 1055/1] ","GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810","XP_002186288.1,ACI65758.1"

Stramenopiles-Aureococcus_anophagefferens_jgi66966,1100,270.396,8.79E-70,"gi|301111810|ref|XP_002904984.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ","GO:0005509,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810","XP_002904984.1,EEY53366.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224009952,1149,2402.48,0,"gi|224009952|ref|XP_002293934.1|predicted protein [Thalassiosira pseudonana CCMP1335] ","GO:0008270,GO:0005622","XP_002293934.1,EED88943.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi260416,1148,622.083,1.24E-175,"gi|224009952|ref|XP_002293934.1|predicted protein [Thalassiosira pseudonana CCMP1335] ","GO:0008270,GO:0005622","XP_002293934.1,EED88943.1"

Stramenopiles-

Phytophthora_capsici_jgi102948,448,785.793,0,"gi|301115170|ref|XP_002905314.1|con

served hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0008270,GO:0005515", "XP_002905314.1,EEY68155.1"
Stramenopiles-
Phytophthora_ramorum_jgi93954,1045,1632.85,0,gi|301115170|ref|XP_002905314.1|con
served hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0008270,GO:0005515", "XP_002905314.1,EEY68155.1"
Stramenopiles-
Phytophthora_sojae_jgi156980,836,1305.04,0,gi|301115170|ref|XP_002905314.1|conse
rved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0008270,GO:0005515", "XP_002905314.1,EEY68155.1"
Stramenopiles-
Phytophthora_ramorum_jgi78460,427,832.402,0,gi|301091133|ref|XP_002895758.1|cons
erved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895758.1,EEY54722.1"
Stramenopiles-
Phytophthora_capsici_jgi118026,427,863.988,0,gi|301091133|ref|XP_002895758.1|con
served hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895758.1,EEY54722.1"
Stramenopiles-
Phytophthora_sojae_jgi127940,427,842.803,0,gi|301091133|ref|XP_002895758.1|conse
rved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895758.1,EEY54722.1"
Stramenopiles-
Phytophthora_brassicae_esContig460_1,406,779.245,0,gi|301091133|ref|XP_002895758
.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895758.1,EEY54722.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219119671,423,888.256,0,gi|219119671|ref
|XP_002180590.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]
,, "XP_002180590.1,EEC47998.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi225627,455,611.683,5.82E-
173,gi|219119671|ref|XP_002180590.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] ,, "XP_002180590.1,EEC47998.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224007084,468,978.008,0,gi|224007084|ref|XP_
002292502.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002292502.1,EED90477.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi260140,314,117.087,2.52E-
24,gi|195108805|ref|XP_001998983.1|GI24262 [Drosophila mojavensis] ,"
GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_001998983.1,EDW14444
.1"
Stramenopiles-Phytophthora_sojae_jgi121880,310,360.147,1.91E-
97,"gi|301090920|ref|XP_002895656.1|glycoside hydrolase, putative [Phytophthora
infestans T30-4] ", "
GO:0055114,GO:0005488,GO:0016491,GO:0016787,GO:0008152,GO:0003824", "XP_002895656
.1,EEY55157.1"
Stramenopiles-Phytophthora_capsici_jgi70224,324,333.569,1.78E-
89,"gi|301090920|ref|XP_002895656.1|glycoside hydrolase, putative [Phytophthora
infestans T30-4] ", "
GO:0055114,GO:0005488,GO:0016491,GO:0016787,GO:0008152,GO:0003824", "XP_002895656
.1,EEY55157.1"
Stramenopiles-
Phytophthora_sojae_jgi137045,1912,2606.63,0,gi|301101690|ref|XP_002899933.1|ATP-
binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"

GO:0016887,GO:0005524,GO:0000166,GO:0016020,GO:0017111", "XP_002899933.1,EEY60560.1"

Stramenopiles-Phytophthora_ramorum_jgi82510,281,462.996,1.75E-128,gi|301101692|ref|XP_002899934.1|ATP-binding Cassette (ABC) superfamily [Phytophthora infestans T30-4] , GO:0005524,"XP_002899934.1,EEY60561.1"

Stramenopiles-Phytophthora_capsici_jgi50126,267,445.662,2.06E-123,gi|301101692|ref|XP_002899934.1|ATP-binding Cassette (ABC) superfamily [Phytophthora infestans T30-4] , GO:0005524,"XP_002899934.1,EEY60561.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224012787,698,1460.28,0,gi|224012787|ref|XP_002295046.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,,"XP_002295046.1,EED87826.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224008891,514,1075.85,0,gi|224008891|ref|XP_002293404.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,,"XP_002293404.1,EED89140.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi180822,439,343.199,3.54E-92,gi|219129914|ref|XP_002185122.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,,"XP_002185122.1,EEC43254.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi193699,356,325.479,5.57E-87,gi|219113773|ref|XP_002186470.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,,"XP_002186470.1,ACI65940.1"

Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219113773,715,1492.63,0,gi|219113773|ref|XP_002186470.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,,"XP_002186470.1,ACI65940.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi193640,412,363.999,2.00E-98,gi|219113773|ref|XP_002186470.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,,"XP_002186470.1,ACI65940.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223998518,287,584.334,5.13E-165,gi|223998518|ref|XP_002288932.1|hypothetical protein THAPSDRAFT_32880 [Thalassiosira pseudonana CCMP1335] ,"
GO:0001932,GO:0005952,GO:0008603", "XP_002288932.1,EED94368.1"

Stramenopiles-Aureococcus_anophagefferens_jgi55450,409,376.326,3.20E-102,gi|298715444|emb|CBJ34040.1|conserved unknown protein [Ectocarpus siliculosus], " GO:0001932,GO:0005952,GO:0008603,GO:0007165",CBJ34040.1

Stramenopiles-
Phytophthora_ramorum_jgi95317,396,736.873,0,gi|301119699|ref|XP_002907577.1|cAMP-dependent protein kinase regulatory subunit [Phytophthora infestans T30-4] ,"
GO:0016301,GO:0001932,GO:0005952,GO:0008603", "XP_002907577.1,EEY64141.1"

Stramenopiles-
Phytophthora_capsici_jgi114285,614,743.036,0,gi|301119699|ref|XP_002907577.1|cAMP-dependent protein kinase regulatory subunit [Phytophthora infestans T30-4] ,"
GO:0016301,GO:0001932,GO:0005952,GO:0008603", "XP_002907577.1,EEY64141.1"

Stramenopiles-
Phytophthora_sojae_jgi139097,397,733.406,0,gi|301119699|ref|XP_002907577.1|cAMP-dependent protein kinase regulatory subunit [Phytophthora infestans T30-4] ,"
GO:0016301,GO:0001932,GO:0005952,GO:0008603", "XP_002907577.1,EEY64141.1"

Stramenopiles-Phytophthora_capsici_jgi108426,263,472.626,1.56E-131,"gi|301093925|ref|XP_002997807.1|cAMP-dependent protein kinase regulatory subunit, putative [Phytophthora infestans T30-4] ", "
GO:0016301,GO:0001932,GO:0005952,GO:0008603", "XP_002997807.1,EEY67945.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi232338,241,73.1738,2.98E-11,gi|168005670|ref|XP_001755533.1|predicted protein [Physcomitrella patens subsp. patens] ,"

GO:0016787,GO:0008152,GO:0007047,GO:0005975,GO:0016798,GO:0004650", "XP_001755533.1,EDQ79593.1"

Stramenopiles-Aureococcus_anophagefferens_jgi66106,2150,142.124,6.96E-31,gi|255082564|ref|XP_002504268.1|predicted protein [Micromonas sp. RCC299] , "GO:0005488,GO:0016787", "XP_002504268.1,ACO65526.1"

Stramenopiles-Phytophthora_sojae_jgi132480,335,160.614,2.13E-37,gi|297743040|emb|CBI35907.3|unnamed protein product [Vitis vinifera] , , CBI35907.3

Stramenopiles-Phytophthora_ramorum_jgi75905,296,161.384,1.14E-37,gi|297743040|emb|CBI35907.3|unnamed protein product [Vitis vinifera] , , CBI35907.3

Stramenopiles-Phytophthora_ramorum_jgi72774,331,635.18,2.68E-180,gi|301122703|ref|XP_002909078.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002909078.1,EEY57892.1"

Stramenopiles-Phytophthora_sojae_jgi130320,347,670.618,0,gi|301122703|ref|XP_002909078.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002909078.1,EEY57892.1"

Stramenopiles-Aureococcus_anophagefferens_jgi539,734,418.698,1.29E-114,gi|206901280|ref|YP_002250567.1|xylosidase/arabinosidase [Dictyoglomus thermophilum H-6-12] , " GO:0004553,GO:0005975", "YP_002250567.1,ACI19441.1"

Stramenopiles-Aureococcus_anophagefferens_jgi72811,710,110.923,5.28E-22,gi|260786687|ref|XP_002588388.1|hypothetical protein BRAFLDRAFT_116982 [Branchiostoma floridae] , "GO:0006629,GO:0016787,GO:0008152", "XP_002588388.1,EEN44399.1"

Stramenopiles-Phytophthora_capsici_jgi37962,371,736.102,0,gi|254521355|ref|ZP_05133410.1|homoserine O-acetyltransferase [Stenotrophomonas sp. SKA14] , "GO:0005737,GO:0016740,GO:0008415,GO:0004414,GO:0016413,GO:0008652,GO:0009086", "ZP_05133410.1,EED37471.1"

Stramenopiles-Phytophthora_parasitica_esgi68418339_3,219,206.838,1.29E-51,"gi|301088968|ref|XP_002894846.1|homoserine O-acetyltransferase, putative [Phytophthora infestans T30-4] ", "GO:0005737,GO:0016740,GO:0016413", "XP_002894846.1,EEY64849.1"

Stramenopiles-Phytophthora_capsici_jgi116855,409,621.313,6.64E-176,"gi|301088968|ref|XP_002894846.1|homoserine O-acetyltransferase, putative [Phytophthora infestans T30-4] ", "GO:0005737,GO:0016740,GO:0016413", "XP_002894846.1,EEY64849.1"

Stramenopiles-Phytophthora_ramorum_jgi81928,427,611.683,5.95E-173,"gi|301088968|ref|XP_002894846.1|homoserine O-acetyltransferase, putative [Phytophthora infestans T30-4] ", "GO:0005737,GO:0016740,GO:0016413", "XP_002894846.1,EEY64849.1"

Stramenopiles-Phytophthora_sojae_jgi137199,731,458.373,1.43E-126,"gi|301088968|ref|XP_002894846.1|homoserine O-acetyltransferase, putative [Phytophthora infestans T30-4] ", "GO:0005737,GO:0016740,GO:0016413", "XP_002894846.1,EEY64849.1"

Stramenopiles-Phytophthora_sojae_jgi127649,425,585.874,3.20E-165,"gi|301088968|ref|XP_002894846.1|homoserine O-acetyltransferase, putative [Phytophthora infestans T30-4] ", "GO:0005737,GO:0016740,GO:0016413", "XP_002894846.1,EEY64849.1"

Stramenopiles-Phytophthora_sojae_jgi131940,430,619.387,2.55E-175,"gi|301088968|ref|XP_002894846.1|homoserine O-acetyltransferase, putative [Phytophthora infestans T30-4] ", "GO:0005737,GO:0016740,GO:0016413", "XP_002894846.1,EEY64849.1"

Stramenopiles-Phytophthora_ramorum_jgi82452,291,490.73,7.67E-137,gi|301123725|ref|XP_002909589.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002909589.1,EEY58403.1"

Stramenopiles-Phytophthora_capsici_jgi92544,299,492.271,2.87E-137,gi|301123725|ref|XP_002909589.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002909589.1,EEY58403.1"

Stramenopiles-Phytophthora_sojae_jgi127220,283,459.914,1.21E-127,gi|301123725|ref|XP_002909589.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002909589.1,EEY58403.1"

Stramenopiles-Phytophthora_ramorum_jgi79515,1195,1400.19,0,"gi|301113792|ref|XP_002998666.1|transmembrane protein, putative [Phytophthora infestans T30-4] ", GO:0016021,"XP_002998666.1,EEY70019.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219119117,809,1655.57,0,"gi|219119117|ref|XP_002180325.1|P3A, P type ATPase [Phaeodactylum tricornutum CCAP 1055/1] ", GO:0016021,GO:0016020,GO:0006812,GO:0015662,GO:0016787,GO:0000166,GO:0005524,GO:0016887,GO:0006754,GO:0003824,GO:0008152,GO:0016820", "XP_002180325.1,EEC48516.1"

Stramenopiles-Phytophthora_capsici_jgi116830,1302,1912.5,0,"gi|301123081|ref|XP_002909267.1|plasma membrane H+-ATPase, putative [Phytophthora infestans T30-4] ", GO:0016021,GO:0016020,GO:0006812,GO:0015662,GO:0016787,GO:0000166,GO:0005524,GO:0016887,GO:0006754,GO:0003824,GO:0008152,GO:0016820", "XP_002909267.1,EEY58081.1"

Stramenopiles-Phytophthora_ramorum_jgi38850,849,1674.83,0,"gi|301123081|ref|XP_002909267.1|plasma membrane H+-ATPase, putative [Phytophthora infestans T30-4] ", GO:0016021,GO:0016020,GO:0006812,GO:0015662,GO:0016787,GO:0000166,GO:0005524,GO:0016887,GO:0006754,GO:0003824,GO:0008152,GO:0016820", "XP_002909267.1,EEY58081.1"

Stramenopiles-Phytophthora_sojae_jgi143361,965,1916.74,0,"gi|301123081|ref|XP_002909267.1|plasma membrane H+-ATPase, putative [Phytophthora infestans T30-4] ", GO:0016021,GO:0016020,GO:0006812,GO:0015662,GO:0016787,GO:0000166,GO:0005524,GO:0016887,GO:0006754,GO:0003824,GO:0008152,GO:0016820", "XP_002909267.1,EEY58081.1"

Stramenopiles-Phytophthora_brassicae_esContig1306_1,244,488.419,2.76E-136,"gi|301123081|ref|XP_002909267.1|plasma membrane H+-ATPase, putative [Phytophthora infestans T30-4] ", GO:0016021,GO:0016020,GO:0006812,GO:0015662,GO:0016787,GO:0000166,GO:0005524,GO:0016887,GO:0006754,GO:0003824,GO:0008152,GO:0016820", "XP_002909267.1,EEY58081.1"

Stramenopiles-Aureococcus_anophagefferens_jgi29805,868,846.655,0,"gi|301123081|ref|XP_002909267.1|plasma membrane H+-ATPase, putative [Phytophthora infestans T30-4] ", GO:0016021,GO:0016020,GO:0006812,GO:0015662,GO:0016787,GO:0000166,GO:0005524,GO:0016887,GO:0006754,GO:0003824,GO:0008152,GO:0016820", "XP_002909267.1,EEY58081.1"

Stramenopiles-Phytophthora_sojae_jgi156743,349,645.195,0,gi|301105679|ref|XP_002901923.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002901923.1,EEY57313.1"

Stramenopiles-Aureococcus_anophagefferens_jgi61634,835,138.658,2.73E-30,gi|303280379|ref|XP_003059482.1|predicted protein [Micromonas pusilla CCMP1545] , GO:0016791,GO:0016311,GO:0006470,GO:0008138", "XP_003059482.1,EEH56614.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219127007,205,428.328,2.07E-118,gi|219127007|ref|XP_002183736.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , GO:0016209,GO:0016151,GO:0004784", "XP_002183736.1,EEC44918.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi267154,206,340.117,7.58E-92,gi|219127007|ref|XP_002183736.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0016209,GO:0016151,GO:0004784", "XP_002183736.1,EED44918.1"

Stramenopiles-Aureococcus_anophagefferens_jgi71563,1638,261.536,7.00E-67,gi|71033369|ref|XP_766326.1|DNA repair protein Rad54 [Theileria parva strain Muguga] , " GO:0004386,GO:0003676,GO:0005524,GO:0003677", "XP_766326.1,EAN34043.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi247791,870,293.893,6.52E-77,gi|298709934|emb|CBJ31658.1|conserved unknown protein [Ectocarpus siliculosus] , , CBJ31658.1

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223996567,613,1278.08,0,gi|223996567|ref|XP_002287957.1|hypothetical protein THAPSDRAFT_261481 [Thalassiosira pseudonana CCMP1335] , , "XP_002287957.1,EED95400.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi232509,345,318.546,6.63E-85,gi|149197564|ref|ZP_01874615.1|hypothetical protein LNTAR_01245 [Lentisphaera araneosa HTCC2155] , , "ZP_01874615.1,EDM27984.1"

Stramenopiles-Aureococcus_anophagefferens_jgi8504,104,103.99,5.77E-21,gi|118779434|ref|XP_309303.3|AGAP011348-PA [Anopheles gambiae str. PEST] , " GO:0008152,GO:0003824,GO:0008484", "XP_309303.3,EAA05277.3"

Stramenopiles-Aureococcus_anophagefferens_jgi27261,615,432.95,5.75E-119,gi|298706368|emb|CBJ29377.1|Formylglycine-dependent sulfatase [Ectocarpus siliculosus] , " GO:0016787,GO:0008152,GO:0003824,GO:0008484", CBJ29377.1

Stramenopiles-Sargassum_binderi_esgi120455275_3,295,222.246,5.01E-56,gi|298709363|emb|CBJ31297.1|conserved unknown protein [Ectocarpus siliculosus] , " GO:0005524,GO:0004672,GO:0006468,GO:0004674", CBJ31297.1

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224004054,1432,2982.59,0,gi|224004054|ref|XP_002295678.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0005681,GO:0000398", "XP_002295678.1,ACI64395.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223995765,1972,4109.29,0,gi|223995765|ref|XP_002287556.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0005681,GO:0000398", "XP_002287556.1,EED94999.1"

Stramenopiles-Blastocystis_hominis_tbHL00002590_2,250,411.379,4.21E-113,gi|300120898|emb|CBK21140.2|unnamed protein product [Blastocystis hominis] , " GO:0005681,GO:0000398", CBK21140.2

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224001454,933,1925.98,0,gi|224001454|ref|XP_002290399.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002290399.1,EED92151.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi236403,1060,615.15,1.42E-173,gi|224001454|ref|XP_002290399.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002290399.1,EED92151.1"

Stramenopiles-
Phytophthora_ramorum_jgi81826,2881,5674.36,0,gi|301112779|ref|XP_002998160.1|dyn ein heavy chain [Phytophthora infestans T30-4] , " GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "XP_002998160.1,EEY70506.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224009367,1154,2370.89,0,"gi|224009367|ref|XP_002293642.1|ABC transporter, MRP family [Thalassiosira pseudonana CCMP1335] , , " GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002293642.1,EED89378.1"

Stramenopiles-

Aureococcus_anophagefferens_jgi30038,4494,6243.69,0,gi|298708134|emb|CBJ30475.1|dynein heavy chain [Ectocarpus siliculosus],"
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018",CB
J30475.1

Stramenopiles-

Phytophthora_sojae_jgi136404,2049,3960.22,0,"gi|301098173|ref|XP_002898180.1|dyn
ein heavy chain, outer arm [Phytophthora infestans T30-4] ", "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "X
P_002898180.1,EEY63593.1"

Stramenopiles-

Phytophthora_ramorum_jgi74125,4839,9036.38,0,"gi|301098173|ref|XP_002898180.1|dy
nein heavy chain, outer arm [Phytophthora infestans T30-4] ", "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "X
P_002898180.1,EEY63593.1"

Stramenopiles-

Phytophthora_capsici_jgi10094,1839,3497.98,0,"gi|301098173|ref|XP_002898180.1|dy
nein heavy chain, outer arm [Phytophthora infestans T30-4] ", "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "X
P_002898180.1,EEY63593.1"

Stramenopiles-

Aureococcus_anophagefferens_jgi16,4439,5124.68,0,gi|301112779|ref|XP_002998160.1
|dynein heavy chain [Phytophthora infestans T30-4] , "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "X
P_002998160.1,EEY70506.1"

Stramenopiles-

Phytophthora_ramorum_jgi84849,756,1306.58,0,gi|301102458|ref|XP_002900316.1|cons
erved hypothetical protein [Phytophthora infestans T30-4] , "
GO:0005488,"XP_002900316.1,EEY60109.1"

Stramenopiles-

Phytophthora_sojae_jgi141520,750,1259.2,0,gi|301102472|ref|XP_002900323.1|conser
ved hypothetical protein [Phytophthora infestans T30-4] , "
GO:0005488,"XP_002900323.1,EEY60116.1"

Stramenopiles-Aureococcus_anophagefferens_jgi24760,153,160.614,4.54E-

38,gi|182413183|ref|YP_001818249.1|Beta-galactosidase [Opitutus terrae PB90-1]
,"

GO:0004565,GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0043169,GO:0016798,GO:
0003824", "YP_001818249.1,ACB74649.1"

Stramenopiles-Aureococcus_anophagefferens_jgi35927,378,328.176,9.78E-

88,gi|167522441|ref|XP_001745558.1|hypothetical protein [Monosiga brevicollis
MX1] , "

GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0043169,GO:0016798,GO:0003824", "X
P_001745558.1,EDQ89529.1"

Stramenopiles-Sargassum_binderi_esContig165_1,402,144.436,2.13E-

32,gi|299472281|emb|CBN77251.1|peptidyl-prolyl cis-trans isomerase 1 [Ectocarpus
siliculosus], " GO:0003755,GO:0006457,GO:0016853",CBN77251.1

Stramenopiles-Fragilariopsis_cylindrus_jgi238385,588,318.546,1.37E-

84,gi|223998340|ref|XP_002288843.1|predicted protein [Thalassiosira pseudonana
CCMP1335] , , "XP_002288843.1,EED94279.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223998340,319,660.218,0,gi|223998340|ref|XP_
002288843.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002288843.1,EED94279.1"

Stramenopiles-

Phytophthora_ramorum_jgi84730,1944,2006.49,0,gi|301090701|ref|XP_002895555.1|con

served hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895555.1,EEY55870.1"
Stramenopiles-
Phytophthora_sojae_jgi127347,1955,2046.55,0,gi|301090701|ref|XP_002895555.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895555.1,EEY55870.1"
Stramenopiles-Phytophthora_ramorum_jgi81567,328,545.428,3.01E-153,"gi|301112873|ref|XP_002998207.1|FKBP-type peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ", "
GO:0003755,GO:0006457,GO:0016853", "XP_002998207.1,EEY70553.1"
Stramenopiles-Phytophthora_capsici_jgi62057,209,369.392,1.26E-100,"gi|301112873|ref|XP_002998207.1|FKBP-type peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ", "
GO:0003755,GO:0006457,GO:0016853", "XP_002998207.1,EEY70553.1"
Stramenopiles-Phytophthora_sojae_jgi138654,327,534.258,6.80E-150,"gi|301112873|ref|XP_002998207.1|FKBP-type peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ", "
GO:0003755,GO:0006457,GO:0016853", "XP_002998207.1,EEY70553.1"
Stramenopiles-Phytophthora_parasitica_esgi68419759_3,283,501.901,3.14E-140,"gi|301112873|ref|XP_002998207.1|FKBP-type peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ", "
GO:0003755,GO:0006457,GO:0016853", "XP_002998207.1,EEY70553.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219128810,125,258.84,1.20E-67,gi|219128810|ref|XP_002184597.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0003755,GO:0006457,GO:0016853", "XP_002184597.1,EEC43996.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224006397,113,232.261,1.20E-59,gi|224006397|ref|XP_002292159.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0003755,GO:0006457,GO:0016853", "XP_002292159.1,EED91010.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219128812,116,238.81,1.37E-61,gi|219128812|ref|XP_002184598.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0003755,GO:0006457,GO:0016853", "XP_002184598.1,EEC43997.1"
Stramenopiles-Aureococcus_anophagefferens_jgi30278,110,159.073,1.23E-37,gi|219128812|ref|XP_002184598.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0003755,GO:0006457,GO:0016853", "XP_002184598.1,EEC43997.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi185488,130,167.933,2.94E-40,gi|219128812|ref|XP_002184598.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0003755,GO:0006457,GO:0016853", "XP_002184598.1,EEC43997.1"
Stramenopiles-Blastocystis_hominis_tbBHL00000199_1,115,199.904,6.65E-50,gi|300123577|emb|CBK24849.2|unnamed protein product [Blastocystis hominis], " GO:0003755,GO:0006457,GO:0016853",CBK24849.2
Stramenopiles-
Phytophthora_capsici_jgi120994,654,1306.58,0,"gi|301117924|ref|XP_002906690.1|tRNA wybutosine-synthesizing protein, putative [Phytophthora infestans T30-4] ", "
GO:0055114,GO:0016491,GO:0005506,GO:0003824,GO:0010181,GO:0051536", "XP_002906690.1,EEY66091.1"
Stramenopiles-
Phytophthora_ramorum_jgi40791,631,1245.72,0,"gi|301117924|ref|XP_002906690.1|tRNA A wybutosine-synthesizing protein, putative [Phytophthora infestans T30-4] ", "
GO:0055114,GO:0016491,GO:0005506,GO:0003824,GO:0010181,GO:0051536", "XP_002906690.1,EEY66091.1"
Stramenopiles-
Phytophthora_sojae_jgi108818,598,1147.88,0,"gi|301117924|ref|XP_002906690.1|tRNA wybutosine-synthesizing protein, putative [Phytophthora infestans T30-4] ", "

GO:0055114,GO:0016491,GO:0005506,GO:0003824,GO:0010181,GO:0051536","XP_002906690.1,EEY66091.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224004152,564,1175.23,0,gi|224004152|ref|XP_002295727.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0016491,GO:0003824,GO:0010181,GO:0051536","XP_002295727.1,ACI64444.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219122951,416,872.848,0,gi|219122951|ref|XP_002181799.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0003824,GO:0051536","XP_002181799.1,EEC47013.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi181471,471,687.567,0,gi|219122951|ref|XP_002181799.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0003824,GO:0051536","XP_002181799.1,EEC47013.1"
Stramenopiles-Aureococcus_anophagefferens_jgi21732,391,550.436,1.45E-154,gi|219122951|ref|XP_002181799.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ," GO:0003824,GO:0051536","XP_002181799.1,EEC47013.1"
Stramenopiles-
Phytophthora_capsici_jgi23962,414,835.099,0,gi|194365564|ref|YP_002028174.1|D-3-phosphoglycerate dehydrogenase [Stenotrophomonas maltophilia R551-3] ,"
GO:0048037,GO:0005488,GO:0016597,GO:0008152,GO:0003824,GO:0016616,GO:0051287","Y P_002028174.1,ACF51491.1"
Stramenopiles-
Phytophthora_sojae_jgi108653,455,875.93,0,gi|301106016|ref|XP_002902091.1|D-3-phosphoglycerate dehydrogenase [Phytophthora infestans T30-4] ,"
GO:0051287,GO:0055114,GO:0016597,GO:0016616,GO:0016491,GO:0003824,GO:0048037,GO:0008152,GO:0005488","XP_002902091.1,EEY56763.1"
Stramenopiles-
Phytophthora_capsici_jgi122113,452,871.307,0,gi|301106016|ref|XP_002902091.1|D-3-phosphoglycerate dehydrogenase [Phytophthora infestans T30-4] ,"
GO:0051287,GO:0055114,GO:0016597,GO:0016616,GO:0016491,GO:0003824,GO:0048037,GO:0008152,GO:0005488","XP_002902091.1,EEY56763.1"
Stramenopiles-
Phytophthora_ramorum_jgi71849,455,846.655,0,gi|301106016|ref|XP_002902091.1|D-3-phosphoglycerate dehydrogenase [Phytophthora infestans T30-4] ,"
GO:0051287,GO:0055114,GO:0016597,GO:0016616,GO:0016491,GO:0003824,GO:0048037,GO:0008152,GO:0005488","XP_002902091.1,EEY56763.1"
Stramenopiles-
Phytophthora_ramorum_jgi72455,455,846.655,0,gi|301106016|ref|XP_002902091.1|D-3-phosphoglycerate dehydrogenase [Phytophthora infestans T30-4] ,"
GO:0051287,GO:0055114,GO:0016597,GO:0016616,GO:0016491,GO:0003824,GO:0048037,GO:0008152,GO:0005488","XP_002902091.1,EEY56763.1"
Stramenopiles-Aureococcus_anophagefferens_jgi31432,515,380.948,2.09E-103,gi|112143942|gb|ABI13180.1|hypothetical protein [Emiliana huxleyi] ,"
GO:0005525,GO:0003924,GO:0000166",ABI13180.1
Stramenopiles-Aureococcus_anophagefferens_jgi30262,438,440.269,2.10E-121,"gi|298713481|emb|CBJ27036.1|RME1, RME-1/EHD family ATPase with a C-terminal EH domain [Ectocarpus siliculosus]","
GO:0005525,GO:0003924,GO:0005509,GO:0000166",CBJ27036.1
Stramenopiles-Aureococcus_anophagefferens_jgi1666,383,323.553,2.74E-86,"gi|298713481|emb|CBJ27036.1|RME1, RME-1/EHD family ATPase with a C-terminal EH domain [Ectocarpus siliculosus]","
GO:0005525,GO:0003924,GO:0005509,GO:0000166",CBJ27036.1
Stramenopiles-
Fragilariopsis_cylindrus_jgi226667,568,908.286,0,gi|219128084|ref|XP_002184252.1

|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0005525,GO:0003924,GO:0005509", "XP_002184252.1,EEC44430.1"
Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219128084,559,1140.95,0,gi|219128084|ref|XP_002184252.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0005525,GO:0003924,GO:0005509", "XP_002184252.1,EEC44430.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224009007,554,1138.25,0,gi|224009007|ref|XP_002293462.1|receptor mediated endocytosis protein-like protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005525,GO:0003924,GO:0005509,GO:0004872", "XP_002293462.1,EED89198.1"
Stramenopiles-
Phytophthora_capsici_jgi82033,554,1009.59,0,gi|301100502|ref|XP_002899341.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0005525,GO:0003924,GO:0005509,GO:0000166", "XP_002899341.1,EEY62310.1"
Stramenopiles-
Phytophthora_sojae_jgi109073,565,1011.13,0,gi|301100502|ref|XP_002899341.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0005525,GO:0003924,GO:0005509,GO:0000166", "XP_002899341.1,EEY62310.1"
Stramenopiles-
Phytophthora_ramorum_jgi52913,523,974.541,0,gi|301100502|ref|XP_002899341.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0005525,GO:0003924,GO:0005509,GO:0000166", "XP_002899341.1,EEY62310.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi269305,226,56.6102,2.30E-06,gi|15896255|ref|NP_349604.1|thymidylate synthase [Clostridium acetobutylicum ATCC 824] ,"
GO:0009165,GO:0008168,GO:0005737,GO:0016740,GO:0006231,GO:0004799", "NP_349604.1,Q97EV3.1,AAK80944.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi54697,1148,748.429,0,gi|15237798|ref|NP_197752.1|ATPase E1-E2 type family protein / haloacid dehalogenase-like hydrolase family protein [Arabidopsis thaliana] ,"
GO:0006875,GO:0009846,GO:0048867,GO:0016036,GO:0019829,GO:0005783,GO:0010152,GO:0010073,GO:0005886", "NP_197752.1,Q9LT02.1,BAA97238.1"
Stramenopiles-Aureococcus_anophagefferens_jgi27290,407,265.388,8.03E-69,gi|260830940|ref|XP_002610418.1|hypothetical protein BRAFLDRAFT_277711 [Branchiostoma floridae] ,"
GO:0019752,GO:0003824,GO:0016831,GO:0030170,GO:0016829", "XP_002610418.1,EEN66428.1"
Stramenopiles-
Phytophthora_ramorum_jgi72686,609,1110.9,0,"gi|301122515|ref|XP_002908984.1|sphingosine-1-phosphate lyase, putative [Phytophthora infestans T30-4] ", "
GO:0019752,GO:0003824,GO:0016831,GO:0030170,GO:0016829", "XP_002908984.1,EEY57798.1"
Stramenopiles-Phytophthora_nicotianae_esgi40545120_2,216,359.762,1.10E-97,"gi|301122515|ref|XP_002908984.1|sphingosine-1-phosphate lyase, putative [Phytophthora infestans T30-4] ", "
GO:0019752,GO:0003824,GO:0016831,GO:0030170,GO:0016829", "XP_002908984.1,EEY57798.1"
Stramenopiles-
Phytophthora_sojae_jgi130206,613,1117.84,0,"gi|301122515|ref|XP_002908984.1|sphingosine-1-phosphate lyase, putative [Phytophthora infestans T30-4] ", "
GO:0019752,GO:0003824,GO:0016831,GO:0030170,GO:0016829", "XP_002908984.1,EEY57798.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219127490,442,921.383,0,gi|219127490|ref|XP_002183967.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0019752,GO:0003824,GO:0016831,GO:0030170,GO:0016829", "XP_002183967.1,EEC44636.1"

Stramenopiles-

Phytophthora_ramorum_jgi87801,517,989.564,0,gi|301120111|ref|XP_002907783.1|keto l-acid reductoisomerase [Phytophthora infestans T30-4] , "GO:0050662,GO:0009082,GO:0004455,GO:0055114,GO:0016491,GO:0003824,GO:0016853,GO:0008152,GO:0008652,GO:0005488", "XP_002907783.1,EEY64347.1"

Stramenopiles-

Phytophthora_capsici_jgi98884,516,1013.06,0,gi|301120111|ref|XP_002907783.1|keto l-acid reductoisomerase [Phytophthora infestans T30-4] , "GO:0050662,GO:0009082,GO:0004455,GO:0055114,GO:0016491,GO:0003824,GO:0016853,GO:0008152,GO:0008652,GO:0005488", "XP_002907783.1,EEY64347.1"

Stramenopiles-

Phytophthora_sojae_jgi136278,516,1009.21,0,gi|301120111|ref|XP_002907783.1|keto l-acid reductoisomerase [Phytophthora infestans T30-4] , "GO:0050662,GO:0009082,GO:0004455,GO:0055114,GO:0016491,GO:0003824,GO:0016853,GO:0008152,GO:0008652,GO:0005488", "XP_002907783.1,EEY64347.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219129854,539,1109.36,0,gi|219129854|ref|XP_002185094.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0050662,GO:0009082,GO:0004455,GO:0055114,GO:0016491,GO:0003824,GO:0008152,GO:0008652,GO:0005488", "XP_002185094.1,EEC43541.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi166620,541,966.452,0,gi|219129854|ref|XP_002185094.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0050662,GO:0009082,GO:0004455,GO:0055114,GO:0016491,GO:0003824,GO:0008152,GO:0008652,GO:0005488", "XP_002185094.1,EEC43541.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi160634,182,226.868,6.91E-58,gi|294891272|ref|XP_002773506.1|phytanoyl-CoA dioxygenase domain containing protein [Perkinsus marinus ATCC 50983] , GO:0016702, "XP_002773506.1,EER05322.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224007769,373,782.711,0,gi|224007769|ref|XP_002292844.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "XP_002292844.1,EED90040.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi272003,162,48.1358,3.09E-04,gi|167998196|ref|XP_001751804.1|predicted protein [Physcomitrella patens subsp. patens] , "GO:0009055,GO:0005507", "XP_001751804.1,EDQ83239.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi264955,223,53.1434,2.65E-05,gi|159478102|ref|XP_001697143.1|hypothetical protein CHLREDRAFT_175974 [Chlamydomonas reinhardtii] , "XP_001697143.1,EDP00398.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi225537,326,339.347,3.36E-91,gi|219130285|ref|XP_002185299.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0006342,GO:0070403,GO:0016811,GO:0045449,GO:0008270,GO:0006476", "XP_002185299.1,EEC43168.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219130285,264,545.428,2.15E-153,gi|219130285|ref|XP_002185299.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0006342,GO:0070403,GO:0016811,GO:0045449,GO:0008270,GO:0006476", "XP_002185299.1,EEC43168.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224006025,275,570.852,4.83E-161,gi|224006025|ref|XP_002291973.1|sir2-like transcriptional regulatory protein found in-like protein [Thalassiosira pseudonana CCMP1335] , "GO:0006342,GO:0070403,GO:0016811,GO:0045449,GO:0008270,GO:0006476", "XP_002291973.1,EED90824.1"

Stramenopiles-Blastocystis_hominis_tbBHL00002755_3,97,162.155,1.84E-38,gi|300120380|emb|CBK19934.2|unnamed protein product [Blastocystis hominis], "GO:0006342,GO:0070403,GO:0016811,GO:0045449,GO:0008270,GO:0051287,GO:0006476",CBK19934.2

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219113065,333,695.656,0,gi|219113065|ref|XP_002186116.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002186116.1,ACI65586.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi184803,419,228.024,1.57E-57,gi|283782174|ref|YP_003372929.1|protein of unknown function DUF303 acetylerase putative [Pirellula staleyi DSM 6068] , "GO:0016787,YP_003372929.1,ADB19069.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223995025,837,1741.86,0,gi|223995025|ref|XP_002287196.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "GO:0005515,XP_002287196.1,EED94639.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi196034,374,426.402,2.62E-117,gi|219123017|ref|XP_002181829.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0005515,XP_002181829.1,EEC46369.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219123017,925,1934.07,0,gi|219123017|ref|XP_002181829.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0005515,XP_002181829.1,EEC46369.1"

Stramenopiles-Aureococcus_anophagefferens_jgi5150,336,270.011,2.68E-70,gi|256394010|ref|YP_003115574.1|Alpha-L-arabinofuranosidase B catalytic [Catenulispora acidiphila DSM 44928] , "GO:0031221,GO:0046556", "YP_003115574.1,ACU73733.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi244951,976,581.252,2.11E-163,gi|223996447|ref|XP_002287897.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "GO:0016624,GO:0008152", "XP_002287897.1,EED95340.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219112671,468,978.778,0,gi|219112671|ref|XP_002178087.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002178087.1,EEC50901.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223996447,814,1694.48,0,gi|223996447|ref|XP_002287897.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "GO:0016624,GO:0008152", "XP_002287897.1,EED95340.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219111705,613,1283.09,0,gi|219111705|ref|XP_002177604.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002177604.1,EEC50418.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219112337,549,1153.27,0,gi|219112337|ref|XP_002177920.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002177920.1,EEC50734.1"

Stramenopiles-Phytophthora_parasitica_esgi222375374_2,205,295.434,2.04E-78,gi|301112805|ref|XP_002998173.1|spindle assembly protein, putative [Phytophthora infestans T30-4] , , "XP_002998173.1,EEY70519.1"

Stramenopiles-Phytophthora capsici_jgi48203,237,420.624,5.65E-116,"gi|301112805|ref|XP_002998173.1|spindle assembly protein, putative [Phytophthora infestans T30-4] ",,"XP_002998173.1,EEY70519.1"
 Stramenopiles-Aureococcus anophagefferens_jgi60767,441,189.504,6.06E-46,gi|224001472|ref|XP_002290408.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,,"XP_002290408.1,EED92160.1"
 Stramenopiles-
 Thalassiosira pseudonana_CCMP1335_gi223998456,568,1176.39,0,gi|223998456|ref|XP_002288901.1|predicted protein [Thalassiosira pseudonana CCMP1335] , GO:0016491,"XP_002288901.1,EED94337.1"
 Stramenopiles-Aureococcus anophagefferens_jgi72374,894,314.694,3.23E-83,gi|301109731|ref|XP_002903946.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0045449,GO:0030528,GO:0005634", "XP_002903946.1,EEY55001.1"
 Stramenopiles-Aureococcus anophagefferens_jgi55061,599,394.43,1.95E-107,gi|170111503|ref|XP_001886955.1|predicted protein [Laccaria bicolor S238N-H82] , " GO:0045449,GO:0030528,GO:0005634", "XP_001886955.1,EDR02278.1"
 Stramenopiles-
 Phaeodactylum tricornutum_CCAP_1055/1_gi219110195,107,222.246,1.30E-56,gi|219110195|ref|XP_002176849.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0045449,GO:0030528,GO:0005634", "XP_002176849.1,EEC51312.1"
 Stramenopiles-Fragilariopsis cylindrus_jgi192974,76,150.984,3.56E-35,gi|219110195|ref|XP_002176849.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0045449,GO:0030528,GO:0005634", "XP_002176849.1,EEC51312.1"
 Stramenopiles-Thalassiosira pseudonana_CCMP1335_gi224010858,140,293.123,6.48E-78,gi|224010858|ref|XP_002294386.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0045449,GO:0030528,GO:0005634", "XP_002294386.1,EED88220.1"
 Stramenopiles-Phytophthora ramorum_jgi86442,436,407.527,1.73E-111,gi|301109731|ref|XP_002903946.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0045449,GO:0030528,GO:0005634", "XP_002903946.1,EEY55001.1"
 Stramenopiles-
 Phytophthora capsici_jgi106782,613,936.791,0,gi|301109731|ref|XP_002903946.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0045449,GO:0030528,GO:0005634", "XP_002903946.1,EEY55001.1"
 Stramenopiles-
 Phytophthora sojae_jgi156463,927,938.332,0,gi|301109731|ref|XP_002903946.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0045449,GO:0030528,GO:0005634", "XP_002903946.1,EEY55001.1"
 Stramenopiles-Fragilariopsis cylindrus_jgi210817,329,265.388,6.42E-69,gi|219122488|ref|XP_002181576.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002181576.1,EEC46790.1"
 Stramenopiles-
 Phaeodactylum tricornutum_CCAP_1055/1_gi219122488,310,637.106,0,gi|219122488|ref|XP_002181576.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002181576.1,EEC46790.1"
 Stramenopiles-Fragilariopsis cylindrus_jgi195507,396,178.718,1.14E-42,gi|219122488|ref|XP_002181576.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002181576.1,EEC46790.1"
 Stramenopiles-Sargassum binderi_esgi120454435_2,277,265.003,6.85E-69,gi|298707892|emb|CBJ30289.1|conserved unknown protein [Ectocarpus siliculosus],,CBJ30289.1
 Stramenopiles-Aureococcus anophagefferens_jgi70546,932,191.43,4.09E-46,gi|298707892|emb|CBJ30289.1|conserved unknown protein [Ectocarpus siliculosus],,CBJ30289.1

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219129453,722,1506.89,0,gi|219129453|ref|XP_002184903.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002184903.1,EEC43639.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi237325,724,983.786,0,gi|219129453|ref|XP_002184903.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002184903.1,EEC43639.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224013341,589,1238.4,0,gi|224013341|ref|XP_002295322.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,,"XP_002295322.1,EED87388.1"

Stramenopiles-Aureococcus_anophagefferens_jgi68493,577,200.29,5.31E-49,gi|299472005|emb|CBN80088.1|conserved unknown protein [Ectocarpus siliculosus],,CBN80088.1

Stramenopiles-

Aureococcus_anophagefferens_jgi71551,1953,674.47,0,gi|299472005|emb|CBN80088.1|conserved unknown protein [Ectocarpus siliculosus],,CBN80088.1

Stramenopiles-

Phytophthora_capsici_jgi26673,366,687.952,0,gi|301117528|ref|XP_002906492.1|dynein heavy chain [Phytophthora infestans T30-4] ,,"GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018,GO:0005515",,"XP_002906492.1,EEY65893.1"

Stramenopiles-

Phytophthora_sojae_jgi156858,4071,7883.87,0,gi|301117528|ref|XP_002906492.1|dynein heavy chain [Phytophthora infestans T30-4] ,,"GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018,GO:0005515",,"XP_002906492.1,EEY65893.1"

Stramenopiles-

Phytophthora_ramorum_jgi94368,4097,7870.38,0,gi|301117528|ref|XP_002906492.1|dynein heavy chain [Phytophthora infestans T30-4] ,,"GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018,GO:0005515",,"XP_002906492.1,EEY65893.1"

Stramenopiles-

Phytophthora_sojae_jgi137480,483,899.812,0,gi|301121454|ref|XP_002908454.1|dynein heavy chain [Phytophthora infestans T30-4] ,,"GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018,GO:0005515",,"XP_002908454.1,EEY61537.1"

Stramenopiles-

Phytophthora_capsici_jgi22599,470,890.952,0,gi|301121454|ref|XP_002908454.1|dynein heavy chain [Phytophthora infestans T30-4] ,,"GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018,GO:0005515",,"XP_002908454.1,EEY61537.1"

Stramenopiles-Aureococcus_anophagefferens_jgi63122,4491,235.728,1.06E-58,gi|219129512|ref|XP_002184931.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002184931.1,EEC43667.1"

Stramenopiles-Aureococcus_anophagefferens_jgi62184,1051,141.354,6.51E-31,gi|307108841|gb|EFN57080.1|hypothetical protein CHLNCDRAFT_143848 [Chlorella variabilis],,EFN57080.1

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224012539,815,1714.89,0,gi|224012539|ref|XP_002294922.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,,"XP_002294922.1,EED87702.1"

Stramenopiles-Phytophthora_ramorum_jgi74818,1338,360.147,1.24E-96,gi|291190357|ref|NP_001167244.1|myotubularin [Salmo salar] ,"
 GO:0016791,GO:0016311,GO:0016787,GO:0004725","NP_001167244.1,ACN11182.1"
 Stramenopiles-Phytophthora_capsici_jgi122196,1268,369.007,2.27E-99,gi|291190357|ref|NP_001167244.1|myotubularin [Salmo salar] ,"
 GO:0016791,GO:0016311,GO:0016787,GO:0004725","NP_001167244.1,ACN11182.1"
 Stramenopiles-Phytophthora_sojae_jgi141343,1343,362.073,2.99E-97,gi|147899223|ref|NP_001089410.1|myotubularin [Xenopus laevis] ,"
 GO:0016791,GO:0016311,GO:0016787,GO:0004725,GO:0004721","NP_001089410.1,Q52KU6.1,AAH94184.1"
 Stramenopiles-
 Phaeodactylum_tricornutum_CCAP_1055/1_gi219115697,619,1268.83,0,gi|219115697|ref|XP_002178644.1|predicted protein [Phaeodactylum tricornutum CCA 1055/1] ,
 GO:0016021,"XP_002178644.1,EEC50309.1"
 Stramenopiles-
 Fragilariopsis_cylindrus_jgi260081,654,917.531,0,gi|219115697|ref|XP_002178644.1|predicted protein [Phaeodactylum tricornutum CCA 1055/1] ,
 GO:0016021,"XP_002178644.1,EEC50309.1"
 Stramenopiles-
 Thalassiosira_pseudonana_CCMP1335_gi224002460,610,1249.19,0,gi|224002460|ref|XP_002290902.1|endomembrane protein EMP70 precursor [Thalassiosira pseudonana CCMP1335] , GO:0016021,"XP_002290902.1,EED92654.1"
 Stramenopiles-
 Phytophthora_capsici_jgi222,1361,1137.48,0,"gi|301118310|ref|XP_002906883.1|endomembrane protein 70-like protein, putative [Phytophthora infestans T30-4] ",
 GO:0016021,"XP_002906883.1,EEY66284.1"
 Stramenopiles-
 Phytophthora_sojae_jgi157453,1540,1387.47,0,"gi|301118308|ref|XP_002906882.1|endomembrane protein 70-like protein, putative [Phytophthora infestans T30-4] ",
 "XP_002906882.1,EEY66283.1"
 Stramenopiles-Phytophthora_ramorum_jgi85151,1983,418.698,3.59E-114,gi|291221631|ref|XP_002730823.1|PREDICTED: Gap-Pol polyprotein-like [Saccoglossus kowalevskii] ,XP_002730823.1
 Stramenopiles-Phytophthora_sojae_jgi136255,2557,590.112,1.36E-165,gi|301123269|ref|XP_002909361.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0006508,GO:0004190,"XP_002909361.1,EEY58175.1"
 Stramenopiles-Phytophthora_sojae_jgi133348,2211,590.112,1.23E-165,gi|301123269|ref|XP_002909361.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0006508,GO:0004190,"XP_002909361.1,EEY58175.1"
 Stramenopiles-Phytophthora_sojae_jgi132494,1800,510.76,7.49E-142,gi|301123269|ref|XP_002909361.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0006508,GO:0004190,"XP_002909361.1,EEY58175.1"
 Stramenopiles-Aureococcus_anophagefferens_jgi62784,1062,110.538,1.24E-21,gi|149200144|ref|ZP_01877168.1|hypothetical protein LNTAR_03259 [Lentisphaera araneosa HTCC2155] ,,"ZP_01877168.1,EDM25214.1"
 Stramenopiles-Phytophthora_brassicae_esgi144588290_1,143,155.221,1.75E-36,gi|301119119|ref|XP_002907287.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002907287.1,EEY63851.1"
 Stramenopiles-Phytophthora_ramorum_jgi51813,399,521.931,4.66E-146,gi|301119119|ref|XP_002907287.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002907287.1,EEY63851.1"
 Stramenopiles-
 Phytophthora_capsici_jgi3288,429,660.218,0,gi|301119119|ref|XP_002907287.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002907287.1,EEY63851.1"

Stramenopiles-

Phytophthora_sojae_jgi128375,519,667.537,0,gi|301119119|ref|XP_002907287.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002907287.1,EEY63851.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224011235,715,1471.83,0,gi|224011235|ref|XP_002295392.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002295392.1,ACI64109.1"

Stramenopiles-Aureococcus_anophagefferens_jgi11416,333,274.633,1.04E-71,gi|298704878|emb|CBJ28395.1|conserved unknown protein [Ectocarpus siliculosus],, CBJ28395.1

Stramenopiles-

Phytophthora_capsici_jgi20595,609,862.448,0,gi|301117928|ref|XP_002906692.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002906692.1,EEY66093.1"

Stramenopiles-

Phytophthora_sojae_jgi134872,626,931.784,0,gi|301117928|ref|XP_002906692.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002906692.1,EEY66093.1"

Stramenopiles-Aureococcus_anophagefferens_jgi20459,409,212.616,6.44E-53,gi|29335747|dbj|BAC66445.1|alpha-galactosidase [Helianthus annuus], "GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0043169,GO:0016798,GO:0003824", BA C66445.1

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219112825,384,797.734,0,gi|219112825|ref|XP_002185996.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0005488,GO:0008152,GO:0003824", "XP_002185996.1,ACI65466.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi226569,377,407.912,1.07E-111,gi|223997386|ref|XP_002288366.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002288366.1,EED93802.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223997386,368,762.681,0,gi|223997386|ref|XP_002288366.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002288366.1,EED93802.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224007146,396,820.076,0,gi|224007146|ref|XP_002292533.1|hypothetical protein THAPSDRAFT_269459 [Thalassiosira pseudonana CCMP1335] , "GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002292533.1,EED90508.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224007144,439,912.138,0,gi|224007144|ref|XP_002292532.1|hypothetical protein THAPSDRAFT_24060 [Thalassiosira pseudonana CCMP1335] , "GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002292532.1,EED90507.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi268182,234,413.305,1.10E-113,gi|224007144|ref|XP_002292532.1|hypothetical protein THAPSDRAFT_24060 [Thalassiosira pseudonana CCMP1335] , "GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002292532.1,EED90507.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219127313,1167,2419.81,0,gi|219127313|ref|XP_002183882.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0005488,GO:0008152,GO:0003824", "XP_002183882.1,EEC44551.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219115007,439,916.376,0,gi|219115007|ref

|XP_002178299.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0005488,GO:0008152,GO:0003824", "XP_002178299.1,EEC49964.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi269966,370,538.88,4.00E-
151,gi|219115007|ref|XP_002178299.1|predicted protein [Phaeodactylum tricorutum
CCAP 1055/1] , " GO:0005488,GO:0008152,GO:0003824", "XP_002178299.1,EEC49964.1"
Stramenopiles-Aureococcus_anophagefferens_jgi66270,387,347.436,1.55E-
93,gi|224007146|ref|XP_002292533.1|hypothetical protein THAPSDRAFT_269459
[Thalassiosira pseudonana CCMP1335] ,"
GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002292533.1,EED90508.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224009648,960,1979.91,0,gi|224009648|ref|XP_
002293782.1|hypothetical protein THAPSDRAFT_264188 [Thalassiosira pseudonana
CCMP1335] ,"
GO:0046872,GO:0006508,GO:0003824,GO:0008270,GO:0004222", "XP_002293782.1,EED88791
.1"
Stramenopiles-
Phytophthora_sojae_jgi143780,489,673.315,0,"gi|301104593|ref|XP_002901381.1|seri
ne protease family S08A, putative [Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004252,GO:0008233", "XP_002901381.1,EEY58908.1"
Stramenopiles-
Phytophthora_sojae_jgi143289,489,685.641,0,"gi|301104593|ref|XP_002901381.1|seri
ne protease family S08A, putative [Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004252,GO:0008233", "XP_002901381.1,EEY58908.1"
Stramenopiles-Phytophthora_capsici_jgi21939,334,505.753,2.82E-
141,"gi|301104593|ref|XP_002901381.1|serine protease family S08A, putative
[Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004252,GO:0008233", "XP_002901381.1,EEY58908.1"
Stramenopiles-Phytophthora_brassicae_esgi144593721_5,247,317.39,8.98E-
85,"gi|301104593|ref|XP_002901381.1|serine protease family S08A, putative
[Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004252,GO:0008233", "XP_002901381.1,EEY58908.1"
Stramenopiles-Phytophthora_brassicae_esgi144590221_4,127,164.851,2.24E-
39,"gi|301104593|ref|XP_002901381.1|serine protease family S08A, putative
[Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004252,GO:0008233", "XP_002901381.1,EEY58908.1"
Stramenopiles-
Phytophthora_ramorum_jgi84204,535,814.683,0,"gi|301101239|ref|XP_002899708.1|ser
ine protease family S08A, putative [Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004252,GO:0008233", "XP_002899708.1,EEY60762.1"
Stramenopiles-Phytophthora_sojae_jgi123724,331,469.929,1.73E-
130,"gi|301123077|ref|XP_002909265.1|serine protease family S08A, putative
[Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004252,GO:0008233", "XP_002909265.1,EEY58079.1"
Stramenopiles-Phytophthora_ramorum_jgi38840,415,599.742,2.15E-
169,"gi|301123077|ref|XP_002909265.1|serine protease family S08A, putative
[Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004252,GO:0008233", "XP_002909265.1,EEY58079.1"
Stramenopiles-Aureococcus_anophagefferens_jgi68573,1016,337.421,5.52E-
90,gi|285808340|gb|ADC35870.1|hypothetical protein [uncultured bacterium
92],,ADC35870.1
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223993279,658,1353.96,0,gi|223993279|ref|XP_
002286323.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0003852,GO:0016740,GO:0008152,GO:0046912,GO:0019752,GO:0003824,GO:0009098", "X
P_002286323.1,EED95964.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219115673,663,1363.59,0,gi|219115673|ref|XP_002178632.1|2-isopropylmalate synthase [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0003852,GO:0016740,GO:0008152,GO:0046912,GO:0019752,GO:0003824,GO:0009098", "XP_002178632.1,EEC50297.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi277320,628,993.801,0,gi|219115673|ref|XP_002178632.1|2-isopropylmalate synthase [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0003852,GO:0016740,GO:0008152,GO:0046912,GO:0019752,GO:0003824,GO:0009098", "XP_002178632.1,EEC50297.1"

Stramenopiles-

Phytophthora_sojae_jgi108956,528,1031.55,0,gi|301118112|ref|XP_002906784.1|2-isopropylmalate synthase [Phytophthora infestans T30-4] ,"

GO:0003852,GO:0016740,GO:0008152,GO:0046912,GO:0019752,GO:0003824,GO:0009098", "XP_002906784.1,EEY66185.1"

Stramenopiles-

Phytophthora_capsici_jgi95116,577,1106.28,0,gi|301118112|ref|XP_002906784.1|2-isopropylmalate synthase [Phytophthora infestans T30-4] ,"

GO:0003852,GO:0016740,GO:0008152,GO:0046912,GO:0019752,GO:0003824,GO:0009098", "XP_002906784.1,EEY66185.1"

Stramenopiles-

Phytophthora_ramorum_jgi75281,577,1103.2,0,gi|301118112|ref|XP_002906784.1|2-isopropylmalate synthase [Phytophthora infestans T30-4] ,"

GO:0003852,GO:0016740,GO:0008152,GO:0046912,GO:0019752,GO:0003824,GO:0009098", "XP_002906784.1,EEY66185.1"

Stramenopiles-

Aureococcus_anophagefferens_jgi38625,617,829.321,0,gi|219115673|ref|XP_002178632.1|2-isopropylmalate synthase [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0003852,GO:0016740,GO:0008152,GO:0046912,GO:0019752,GO:0003824,GO:0009098", "XP_002178632.1,EEC50297.1"

Stramenopiles-

Aureococcus_anophagefferens_jgi54528,610,821.617,0,gi|219115673|ref|XP_002178632.1|2-isopropylmalate synthase [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0003852,GO:0016740,GO:0008152,GO:0046912,GO:0019752,GO:0003824,GO:0009098", "XP_002178632.1,EEC50297.1"

Stramenopiles-Aureococcus_anophagefferens_jgi7873,133,112.079,1.91E-

23,gi|297828281|ref|XP_002882023.1|hypothetical protein ARALYDRAFT_904009 [Arabidopsis lyrata subsp. lyrata] , "XP_002882023.1,EFH58282.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi179112,252,144.436,1.01E-

32,gi|225713936|gb|AC012814.1|FK506-binding protein 14 precursor [Lepeophtheirus salmonis] , "GO:0005509,GO:0006457", "AC012814.1,ADD38568.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi209669,1048,1808.88,0,gi|219129893|ref|XP_002185112.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,

GO:0005488, "XP_002185112.1,EEC43244.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219129893,1045,2153.25,0,gi|219129893|ref|XP_002185112.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,

GO:0005488, "XP_002185112.1,EEC43244.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223997554,975,2008.8,0,gi|223997554|ref|XP_002288450.1|hypothetical protein THAPSDRAFT_27556 [Thalassiosira pseudonana CCMP1335] , GO:0005488, "XP_002288450.1,EED93886.1"

Stramenopiles-

Aureococcus_anophagefferens_jgi37713,1298,1670.98,0,gi|147905376|ref|NP_001084150.1|splicing factor 3B subunit 1 [Xenopus laevis] ,"
GO:0005681,GO:0005488,GO:0008380,GO:0006397,GO:0005634", "NP_001084150.1,057683.1,CAA70201.1"

Stramenopiles-

Phytophthora_ramorum_jgi71523,1230,2307.33,0,gi|301113146|ref|XP_002998343.1|splicing factor 3B subunit 1 [Phytophthora infestans T30-4] ,
GO:0005488, "XP_002998343.1,EEY69696.1"

Stramenopiles-

Phytophthora_sojae_jgi109252,1263,2295,0,gi|301113146|ref|XP_002998343.1|splicing factor 3B subunit 1 [Phytophthora infestans T30-4] ,
GO:0005488, "XP_002998343.1,EEY69696.1"

Stramenopiles-Aureococcus_anophagefferens_jgi71230,2401,214.157,1.97E-52,gi|298705070|emb|CBJ28529.1|conserved unknown protein [Ectocarpus siliculosus] ,"
GO:0030154,GO:0016779,GO:0016020", CBJ28529.1

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219121057,918,1876.68,0,gi|219121057|ref|XP_002185760.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0016021,GO:0016020,GO:0008158", "XP_002185760.1,ACI65230.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219121059,956,1960.27,0,gi|219121059|ref|XP_002185761.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0016021,GO:0016020,GO:0008158", "XP_002185761.1,ACI65231.1"

Stramenopiles-

Phytophthora_capsici_jgi87116,1563,1139.41,0,"gi|301094223|ref|XP_002997955.1|fatty acid synthase subunit alpha, putative [Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009059,GO:0006633,GO:0005737,GO:0055114,GO:0016491,GO:0003824,GO:0004312,GO:0005835,GO:0008897,GO:0008152,GO:0000287,GO:0005488", "XP_002997955.1,EEY67793.1"

Stramenopiles-Aureococcus_anophagefferens_jgi21424,343,357.451,1.41E-96,gi|256394010|ref|YP_003115574.1|Alpha-L-arabinofuranosidase B catalytic [Catenulispora acidiphila DSM 44928] ,"
GO:0031221,GO:0046556", "YP_003115574.1,ACU73733.1"

Stramenopiles-Aureococcus_anophagefferens_jgi1957,346,312.383,4.66E-83,gi|256394010|ref|YP_003115574.1|Alpha-L-arabinofuranosidase B catalytic [Catenulispora acidiphila DSM 44928] ,"
GO:0031221,GO:0046556", "YP_003115574.1,ACU73733.1"

Stramenopiles-Aureococcus_anophagefferens_jgi2105,336,268.085,1.03E-69,gi|256394010|ref|YP_003115574.1|Alpha-L-arabinofuranosidase B catalytic [Catenulispora acidiphila DSM 44928] ,"
GO:0031221,GO:0046556", "YP_003115574.1,ACU73733.1"

Stramenopiles-Phytophthora_sojae_jgi132315,352,577.015,9.59E-163,gi|301114169|ref|XP_002998854.1|arabinofuranosidase [Phytophthora infestans T30-4] ,"
GO:0031221,GO:0046556", "XP_002998854.1,EEY69000.1"

Stramenopiles-Phytophthora_ramorum_jgi72148,357,580.867,8.45E-164,gi|301114169|ref|XP_002998854.1|arabinofuranosidase [Phytophthora infestans T30-4] ,"
GO:0031221,GO:0046556", "XP_002998854.1,EEY69000.1"

Stramenopiles-Phytophthora_capsici_jgi24809,216,384.415,4.19E-105,gi|301114169|ref|XP_002998854.1|arabinofuranosidase [Phytophthora infestans T30-4] ,"
GO:0031221,GO:0046556", "XP_002998854.1,EEY69000.1"

Stramenopiles-Phytophthora_capsici_jgi26231,361,621.313,5.60E-176,gi|301114169|ref|XP_002998854.1|arabinofuranosidase [Phytophthora infestans T30-4] ,"
GO:0031221,GO:0046556", "XP_002998854.1,EEY69000.1"

Stramenopiles-Phytophthora_capsici_jgi26231,361,621.313,5.60E-176,gi|301114169|ref|XP_002998854.1|arabinofuranosidase [Phytophthora infestans T30-4] ,"
GO:0031221,GO:0046556", "XP_002998854.1,EEY69000.1"

Stramenopiles-Phytophthora parasitica esgi222414211_3,258,425.631,2.53E-117,gi|301114169|ref|XP_002998854.1|arabinofuranosidase [Phytophthora infestans T30-4] , " GO:0031221,GO:0046556", "XP_002998854.1,EEY69000.1"

Stramenopiles-Phytophthora sojae_jgi108620,362,437.573,1.21E-120,gi|301114169|ref|XP_002998854.1|arabinofuranosidase [Phytophthora infestans T30-4] , " GO:0031221,GO:0046556", "XP_002998854.1,EEY69000.1"

Stramenopiles-Phytophthora sojae_jgi128108,729,754.207,0,gi|301102658|ref|XP_002900416.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0005509,GO:0006457,GO:0005515", "XP_002900416.1,EEY60209.1"

Stramenopiles-Phytophthora capsici_jgi85544,497,724.161,0,gi|301102658|ref|XP_002900416.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0005509,GO:0006457,GO:0005515", "XP_002900416.1,EEY60209.1"

Stramenopiles-Phytophthora ramorum_jgi95158,706,736.102,0,gi|301102658|ref|XP_002900416.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0005509,GO:0006457,GO:0005515", "XP_002900416.1,EEY60209.1"

Stramenopiles-Phaeodactylum tricorutum_CCAP_1055/1_gi219125257,477,992.645,0,gi|219125257|ref|XP_002182901.1|delta 6 fatty acid desaturase [Phaeodactylum tricorutum CCAP 1055/1] , " GO:0006629,GO:0055114,GO:0016717,GO:0020037,GO:0016491,GO:0005506,GO:0006633", "XP_002182901.1,AAL92563.1,EEC45637.1"

Stramenopiles-Thalassiosira pseudonana_CCMP1335_gi224003715,484,1011.13,0,gi|224003715|ref|XP_002291529.1|probable microsomal delta-6 desaturase [Thalassiosira pseudonana CCMP1335] , " GO:0006629,GO:0055114,GO:0016717,GO:0020037,GO:0016491,GO:0005506,GO:0006633", "XP_002291529.1,AAX14505.1,EED91636.1"

Stramenopiles-Fragilariopsis cylindrus_jgi228533,489,709.138,0,gi|219125257|ref|XP_002182901.1|delta 6 fatty acid desaturase [Phaeodactylum tricorutum CCAP 1055/1] , " GO:0006629,GO:0055114,GO:0016717,GO:0020037,GO:0016491,GO:0005506,GO:0006633", "XP_002182901.1,AAL92563.1,EEC45637.1"

Stramenopiles-Phytophthora sojae_jgi108614,457,902.894,0,gi|111572541|gb|ABH10627.1|delta-6 desaturase [Phytophthora citrophthora] , " GO:0006629,GO:0055114,GO:0016717,GO:0020037,GO:0016491,GO:0005506,GO:0006633", "ABH10627.1"

Stramenopiles-Phytophthora capsici_jgi117744,274,520.776,5.32E-146,gi|111572541|gb|ABH10627.1|delta-6 desaturase [Phytophthora citrophthora] , " GO:0006629,GO:0055114,GO:0016717,GO:0020037,GO:0016491,GO:0005506,GO:0006633", "ABH10627.1"

Stramenopiles-Phytophthora parasitica esgi68418836_1,284,521.546,3.40E-146,gi|111572541|gb|ABH10627.1|delta-6 desaturase [Phytophthora citrophthora] , " GO:0006629,GO:0055114,GO:0016717,GO:0020037,GO:0016491,GO:0005506,GO:0006633", "ABH10627.1"

Stramenopiles-Phytophthora ramorum_jgi72056,457,879.396,0,gi|111572541|gb|ABH10627.1|delta-6 desaturase [Phytophthora citrophthora] , " GO:0006629,GO:0055114,GO:0016717,GO:0020037,GO:0016491,GO:0005506,GO:0006633", "ABH10627.1"

Stramenopiles-Thalassiosira pseudonana_CCMP1335_gi224006045,168,346.28,5.71E-94,gi|224006045|ref|XP_002291983.1|predicted protein [Thalassiosira pseudonana

CCMP1335] ,"

GO:0055114,GO:0016705,GO:0005506,GO:0031418", "XP_002291983.1,EED90834.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219123691,188,391.734,1.75E-107,gi|219123691|ref|XP_002182153.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0055114,GO:0016705,GO:0005506,GO:0031418", "XP_002182153.1,EEC46054.1"

Stramenopiles-Aureococcus_anophagefferens_jgi61447,318,144.436,1.49E-32,gi|290243077|ref|YP_003494747.1|Procollagen-proline dioxygenase [Thioalkalivibrio sp. K90mix] ,"

GO:0005506,GO:0031418,GO:0016705,GO:0016702,GO:0055114,GO:0006464,GO:0016491,GO:0004656,GO:0004835", "YP_003494747.1,ADC73280.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224012377,1164,2415.19,0,gi|224012377|ref|XP_002294841.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"

GO:0055114,GO:0016705,GO:0005506,GO:0031418", "XP_002294841.1,EED87621.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224012759,194,408.683,1.39E-112,gi|224012759|ref|XP_002295032.1|hypothetical protein THAPSDRAFT_264808 [Thalassiosira pseudonana CCMP1335] ,"

GO:0055114,GO:0016705,GO:0016491,GO:0005506,GO:0031418", "XP_002295032.1,EED87812.1"

Stramenopiles-Phytophthora_sojae_jgi145321,360,328.946,6.01E-88,gi|301093292|ref|XP_002997494.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0055114,GO:0016705,GO:0016491,GO:0005506,GO:0031418", "XP_002997494.1,EEY68688.1"

Stramenopiles-Phytophthora_sojae_jgi133634,706,476.093,7.21E-132,gi|301089064|ref|XP_002894876.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002894876.1,EEY64406.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224006375,394,825.469,0,gi|224006375|ref|XP_002292148.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002292148.1,EED90999.1"

Stramenopiles-Aureococcus_anophagefferens_jgi62118,1700,142.895,3.18E-31,gi|219113773|ref|XP_002186470.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002186470.1,ACI65940.1"

Stramenopiles-Aureococcus_anophagefferens_jgi63721,1207,135.576,3.52E-29,gi|219113773|ref|XP_002186470.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002186470.1,ACI65940.1"

Stramenopiles-Aureococcus_anophagefferens_jgi70898,2365,330.872,1.40E-87,gi|91975071|ref|YP_567730.1|DNA helicase, putative [Rhodopseudomonas palustris BisB5] " , "

GO:0006355,GO:0004386,GO:0003711,GO:0003677", "YP_567730.1,ABE37829.1"

Stramenopiles-Phytophthora_ramorum_jgi96093,304,561.992,2.94E-158,gi|301100728|ref|XP_002899453.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0035091,GO:0007154,GO:0005515", "XP_002899453.1,EEY61813.1"

Stramenopiles-Phytophthora_sojae_jgi156141,304,570.466,8.40E-161,gi|301100728|ref|XP_002899453.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0035091,GO:0007154,GO:0005515", "XP_002899453.1,EEY61813.1"

Stramenopiles-Blastocystis_hominis_tbBHL00001221_3,235,216.853,1.52E-54,gi|300122044|emb|CBK22618.2|unnamed protein product [Blastocystis hominis] ,"

GO:0035091,GO:0007154,GO:0005515",CBK22618.2

Stramenopiles-

Phytophthora_ramorum_jgi81721,642,751.125,0,"gi|301100786|ref|XP_002899482.1|ribonuclease H2 subunit A, putative [Phytophthora infestans T30-4] ","GO:0007154,GO:0016787,GO:0003676,GO:0016070,GO:0003723,GO:0005515,GO:0004523,GO:0035091,GO:0004519,GO:0004518","XP_002899482.1,EEY61842.1"

Stramenopiles-

Phytophthora_ramorum_jgi48825,641,1244.18,0,gi|301107486|ref|XP_002902825.1|long-chain-fatty-acid-CoA ligase [Phytophthora infestans T30-4] ","GO:0016874,GO:0008152,GO:0003824","XP_002902825.1,EEY55995.1"

Stramenopiles-

Phytophthora_capsici_jgi89078,647,1274.61,0,gi|301107486|ref|XP_002902825.1|long-chain-fatty-acid-CoA ligase [Phytophthora infestans T30-4] ","GO:0016874,GO:0008152,GO:0003824","XP_002902825.1,EEY55995.1"

Stramenopiles-

Phytophthora_sojae_jgi132768,647,1268.83,0,gi|301107486|ref|XP_002902825.1|long-chain-fatty-acid-CoA ligase [Phytophthora infestans T30-4] ","GO:0016874,GO:0008152,GO:0003824","XP_002902825.1,EEY55995.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219117691,663,1377.84,0,gi|219117691|ref|XP_002179636.1|long chain acyl-coa synthetase [Phaeodactylum tricornutum CCAP 1055/1] ","GO:0016874,GO:0004467,GO:0008152,GO:0003824","XP_002179636.1,EEC48622.1"

Stramenopiles-

Phytophthora_capsici_jgi18988,646,1094.34,0,"gi|301121716|ref|XP_002908585.1|long-chain-fatty-acid-CoA ligase, putative [Phytophthora infestans T30-4] ","GO:0016874,GO:0008152,GO:0003824","XP_002908585.1,EEY61668.1"

Stramenopiles-

Phytophthora_sojae_jgi109007,452,784.252,0,"gi|301121716|ref|XP_002908585.1|long-chain-fatty-acid-CoA ligase, putative [Phytophthora infestans T30-4] ","GO:0016874,GO:0008152,GO:0003824","XP_002908585.1,EEY61668.1"

Stramenopiles-

Phytophthora_ramorum_jgi77275,649,1088.95,0,"gi|301121716|ref|XP_002908585.1|long-chain-fatty-acid-CoA ligase, putative [Phytophthora infestans T30-4] ","GO:0016874,GO:0008152,GO:0003824","XP_002908585.1,EEY61668.1"

Stramenopiles-Aureococcus_anophagefferens_jgi10354,674,577.015,2.29E-

162,gi|308812292|ref|XP_003083453.1|MGC53673 protein (ISS) [Ostreococcus tauri] ","GO:0008152,GO:0003824","XP_003083453.1,CAL58002.1"

Stramenopiles-Blastocystis_hominis_tbBHL00000659_6,236,340.502,8.13E-

92,gi|300121230|emb|CBK21611.2|unnamed protein product [Blastocystis hominis]","GO:0008152,GO:0003824",CBK21611.2

Stramenopiles-Aureococcus_anophagefferens_jgi52722,647,548.51,9.63E-

154,gi|167534933|ref|XP_001749141.1|hypothetical protein [Monosiga brevicollis MX1] ","GO:0008152,GO:0003824","XP_001749141.1,EDQ85947.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219122411,437,915.605,0,gi|219122411|ref|XP_002181539.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002181539.1,EEC46753.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi181416,418,276.944,3.23E-

72,gi|219122411|ref|XP_002181539.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002181539.1,EEC46753.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi238936,462,390.963,1.81E-

106,gi|219119296|ref|XP_002180411.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002180411.1,EEC47819.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219119296,420,875.159,0,gi|219119296|ref

|XP_002180411.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]
,, "XP_002180411.1,EEC47819.1"
Stramenopiles-Phytophthora_ramorum_jgi72332,171,340.887,3.06E-
92,gi|301113382|ref|XP_002998461.1|T-complex protein 1 subunit epsilon
[Phytophthora infestans T30-4] ,"
GO:0051082,GO:0044267,GO:0005524,GO:0005737,GO:0006457,GO:0000166,GO:0005515", "X
P_002998461.1,EEY69814.1"
Stramenopiles-
Phytophthora_ramorum_jgi71707,537,1066.99,0,gi|301113382|ref|XP_002998461.1|T-
complex protein 1 subunit epsilon [Phytophthora infestans T30-4] ,"
GO:0051082,GO:0044267,GO:0005524,GO:0005737,GO:0006457,GO:0000166,GO:0005515", "X
P_002998461.1,EEY69814.1"
Stramenopiles-Phytophthora_brassicae_esContig611_3,230,462.225,1.86E-
128,gi|301113382|ref|XP_002998461.1|T-complex protein 1 subunit epsilon
[Phytophthora infestans T30-4] ,"
GO:0051082,GO:0044267,GO:0005524,GO:0005737,GO:0006457,GO:0000166,GO:0005515", "X
P_002998461.1,EEY69814.1"
Stramenopiles-
Phytophthora_sojae_jgi109330,537,1085.86,0,gi|301113382|ref|XP_002998461.1|T-
complex protein 1 subunit epsilon [Phytophthora infestans T30-4] ,"
GO:0051082,GO:0044267,GO:0005524,GO:0005737,GO:0006457,GO:0000166,GO:0005515", "X
P_002998461.1,EEY69814.1"
Stramenopiles-
Phytophthora_capsici_jgi102249,537,1072.38,0,gi|301113382|ref|XP_002998461.1|T-
complex protein 1 subunit epsilon [Phytophthora infestans T30-4] ,"
GO:0051082,GO:0044267,GO:0005524,GO:0005737,GO:0006457,GO:0000166,GO:0005515", "X
P_002998461.1,EEY69814.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi54967,646,869.766,0,gi|301113382|ref|XP_002998461
.1|T-complex protein 1 subunit epsilon [Phytophthora infestans T30-4] ,"
GO:0051082,GO:0044267,GO:0005524,GO:0005737,GO:0006457,GO:0000166,GO:0005515", "X
P_002998461.1,EEY69814.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi26043,538,871.307,0,"gi|298705368|emb|CBJ28658.1|
T-complex protein, epsilon subunit [Ectocarpus siliculosus]","
GO:0051082,GO:0044267,GO:0005524,GO:0005737,GO:0006457,GO:0000166,GO:0005515",CB
J28658.1
Stramenopiles-
Fragilariopsis_cylindrus_jgi259523,554,835.099,0,gi|219122207|ref|XP_002181442.1
|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0051082,GO:0044267,GO:0005524,GO:0005737,GO:0006457,GO:0000166,GO:0005515", "X
P_002181442.1,EEC47365.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219122207,541,1105.12,0,gi|219122207|ref
|XP_002181442.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0051082,GO:0044267,GO:0005524,GO:0005737,GO:0006457,GO:0000166,GO:0005515", "X
P_002181442.1,EEC47365.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224002777,543,1113.21,0,"gi|224002777|ref|XP
_002291060.1|t-complex chaperonin protein, epsilon subunit [Thalassiosira
pseudonana CCMP1335] ", "
GO:0051082,GO:0044267,GO:0005524,GO:0006457,GO:0000166,GO:0005515", "XP_002291060
.1,EED91167.1"
Stramenopiles-
Phytophthora_sojae_jgi131452,5923,5217.51,0,gi|301118749|ref|XP_002907102.1|cons

erved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002907102.1,EEY63666.1"
Stramenopiles-
Phytophthora_ramorum_jgi73407,3008,5025.68,0,gi|301118749|ref|XP_002907102.1|con
served hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002907102.1,EEY63666.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224002394,3966,8272.92,0,gi|224002394|ref|XP
_002290869.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002290869.1,EED92621.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224009540,5245,10825.2,0,gi|224009540|ref|XP
_002293728.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002293728.1,EED88737.1"
Stramenopiles-
Phytophthora_sojae_jgi130084,717,711.835,0,"gi|301122279|ref|XP_002908866.1|cath
epsin, cysteine protease family C01A, putative [Phytophthora infestans T30-4]
", "GO:0006508,GO:0008234,GO:0008233", "XP_002908866.1,EEY57680.1"
Stramenopiles-Phytophthora_capsici_jgi6086,305,582.793,1.48E-
164,"gi|301122279|ref|XP_002908866.1|cathepsin, cysteine protease family C01A,
putative [Phytophthora infestans T30-4] ", "
GO:0006508,GO:0008234,GO:0008233", "XP_002908866.1,EEY57680.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi163345,103,84.3445,4.36E-
15,gi|238059166|ref|ZP_04603875.1|tetratricopeptide TPR_4 [Micromonospora sp.
ATCC 39149] ", "GO:0006952,GO:0005488", "ZP_04603875.1,EEP69805.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224014166,291,613.224,9.35E-
174,gi|224014166|ref|XP_002296746.1|predicted protein [Thalassiosira pseudonana
CCMP1335] ,, "XP_002296746.1,EED86947.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224012343,723,1521.14,0,gi|224012343|ref|XP_
002294824.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002294824.1,EED87604.1"
Stramenopiles-
Phytophthora_sojae_jgi142831,593,999.964,0,"gi|301096651|ref|XP_002897422.1|lyso
somal Pro-X carboxypeptidase, putative [Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004180,GO:0008236", "XP_002897422.1,EEY65165.1"
Stramenopiles-
Phytophthora_capsici_jgi106477,596,989.949,0,"gi|301096651|ref|XP_002897422.1|ly
sosomal Pro-X carboxypeptidase, putative [Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004180,GO:0008236", "XP_002897422.1,EEY65165.1"
Stramenopiles-
Phytophthora_ramorum_jgi80328,590,962.6,0,"gi|301096651|ref|XP_002897422.1|lysos
omal Pro-X carboxypeptidase, putative [Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004180,GO:0008236", "XP_002897422.1,EEY65165.1"
Stramenopiles-Aureococcus_anophagefferens_jgi71973,940,397.512,4.56E-
108,"gi|301096651|ref|XP_002897422.1|lysosomal Pro-X carboxypeptidase, putative
[Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004180,GO:0008236", "XP_002897422.1,EEY65165.1"
Stramenopiles-
Phytophthora_capsici_jgi103354,537,937.947,0,"gi|301103554|ref|XP_002900863.1|ly
sosomal Pro-X carboxypeptidase, putative [Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004180,GO:0008236", "XP_002900863.1,EEY59670.1"
Stramenopiles-Phytophthora_ramorum_jgi74753,191,269.626,1.20E-
70,"gi|301103554|ref|XP_002900863.1|lysosomal Pro-X carboxypeptidase, putative

[Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004180,GO:0008236", "XP_002900863.1,EEY59670.1"
Stramenopiles-
Phytophthora_ramorum_jgi72987,567,895.96,0,"gi|301097471|ref|XP_002897830.1|lyso
somal Pro-X carboxypeptidase, putative [Phytophthora infestans T30-4] ", "
GO:0006508,GO:0004180,GO:0008236", "XP_002897830.1,EEY64630.1"
Stramenopiles-Aureococcus_anophagefferens_jgi28266,311,231.876,7.00E-
59,gi|224043680|ref|XP_002188561.1|PREDICTED: similar to prolylcarboxypeptidase
[Taeniopygia guttata],,XP_002188561.1
Stramenopiles-Aureococcus_anophagefferens_jgi2013,451,307.375,2.06E-
81,gi|14010871|ref|NP_114179.1|dipeptidyl peptidase 2 precursor [Rattus
norvegicus] , "
GO:0016023,GO:0008239,GO:0005764,GO:0008236,GO:0005576,GO:0008233,GO:0006508,GO:
0005515,GO:0005829", "NP_114179.1,Q9EPB1.1,BAB11691.1,BAB13500.1,AAH78783.1,EDL93
599.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi239498,509,289.656,6.51E-
76,gi|291234129|ref|XP_002737003.1|PREDICTED: prolylcarboxypeptidase isoform 1
preproprotein-like [Saccoglossus kowalevskii],,XP_002737003.1
Stramenopiles-Fragilariopsis_cylindrus_jgi193922,300,223.402,2.52E-
56,gi|219113425|ref|XP_002186296.1|predicted protein [Phaeodactylum tricorutum
CCAP 1055/1] , , "XP_002186296.1,ACI65766.1"
Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219113425,311,626.32,1.36E-
177,gi|219113425|ref|XP_002186296.1|predicted protein [Phaeodactylum tricorutum
CCAP 1055/1] , , "XP_002186296.1,ACI65766.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224005867,455,932.169,0,gi|224005867|ref|XP_
002291894.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
GO:0016020, "XP_002291894.1,EED90745.1"
Stramenopiles-Aureococcus_anophagefferens_jgi70600,1261,400.208,8.34E-
109,gi|298706007|emb|CBJ29121.1|Mannitol dehydrogenase rossman domain family
[Ectocarpus siliculosus], "
GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0003824,GO:0050662", CBJ29121.1
Stramenopiles-
Phytophthora_sojae_jgi108641,426,795.423,0,gi|301090360|ref|XP_002895398.1|fumar
ylacetoacetase [Phytophthora infestans T30-4] , "
GO:0004334,GO:0008152,GO:0003824,GO:0009072", "XP_002895398.1,EEY57057.1"
Stramenopiles-Phytophthora_capsici_jgi105774,121,236.884,4.72E-
61,gi|301090360|ref|XP_002895398.1|fumarylacetoacetase [Phytophthora infestans
T30-4] , "
GO:0004334,GO:0008152,GO:0003824,GO:0009072", "XP_002895398.1,EEY57057.1"
Stramenopiles-Phytophthora_sojae_jgi158615,296,540.036,1.09E-
151,gi|301112661|ref|XP_002998101.1|serine/threonine protein kinase
[Phytophthora infestans T30-4] , "
GO:0016301,GO:0005524,GO:0004672,GO:0006468,GO:0004674", "XP_002998101.1,EEY70447
.1"
Stramenopiles-Phytophthora_ramorum_jgi96144,511,536.954,2.22E-
150,gi|301112661|ref|XP_002998101.1|serine/threonine protein kinase
[Phytophthora infestans T30-4] , "
GO:0016301,GO:0005524,GO:0004672,GO:0006468,GO:0004674", "XP_002998101.1,EEY70447
.1"
Stramenopiles-Phytophthora_capsici_jgi22900,203,360.533,5.67E-
98,gi|301112661|ref|XP_002998101.1|serine/threonine protein kinase [Phytophthora
infestans T30-4] , "

GO:0016301,GO:0005524,GO:0004672,GO:0006468,GO:0004674", "XP_002998101.1,EEY70447.1"

Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219129062,1038,2146.7,0,gi|219129062|ref|XP_002184717.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0005524,GO:0004672,GO:0000166,GO:0006468,GO:0004674", "XP_002184717.1,EEC43776.1"

Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219117427,248,519.235,1.57E-145,gi|219117427|ref|XP_002179508.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "XP_002179508.1,EEC49331.1"

Stramenopiles-Aureococcus_anophagefferens_jgi61543,207,97.4413,8.53E-19,gi|219117427|ref|XP_002179508.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "XP_002179508.1,EEC49331.1"

Stramenopiles-Phytophthora_brassicae_esContig1888_1,227,301.982,2.85E-80,gi|301113692|ref|XP_002998616.1|calmodulin [Phytophthora infestans T30-4] , GO:0005509, "XP_002998616.1,P27165.2,Q71UH5.1,AAG01043.1,AAA21424.1,ACG60663.1,EEY69969.1"

Stramenopiles-Phytophthora_sojae_jgi109328,150,296.59,5.65E-79,gi|301113692|ref|XP_002998616.1|calmodulin [Phytophthora infestans T30-4] , GO:0005509, "XP_002998616.1,P27165.2,Q71UH5.1,AAG01043.1,AAA21424.1,ACG60663.1,EEY69969.1"

Stramenopiles-Phytophthora_parasitica_esContig918_2,229,300.442,9.58E-80,gi|301113692|ref|XP_002998616.1|calmodulin [Phytophthora infestans T30-4] , GO:0005509, "XP_002998616.1,P27165.2,Q71UH5.1,AAG01043.1,AAA21424.1,ACG60663.1,EEY69969.1"

Stramenopiles-Aureococcus_anophagefferens_jgi71079,412,102.449,9.17E-20,gi|260796519|ref|XP_002593252.1|hypothetical protein BRAFLDRAFT_124868 [Branchiostoma floridae] , GO:0005509, "XP_002593252.1,EEN49263.1"

Stramenopiles-
Phytophthora_ramorum_jgi80108,2730,1744.17,0,gi|301108984|ref|XP_002903573.1|nephrocystin-4-like protein [Phytophthora infestans T30-4] , GO:0005509, "XP_002903573.1,EEY55349.1"

Stramenopiles-
Phytophthora_capsici_jgi10024,2722,1544.25,0,gi|301108984|ref|XP_002903573.1|nephrocystin-4-like protein [Phytophthora infestans T30-4] , GO:0005509, "XP_002903573.1,EEY55349.1"

Stramenopiles-
Phytophthora_sojae_jgi140465,3114,1802.33,0,gi|301108984|ref|XP_002903573.1|nephrocystin-4-like protein [Phytophthora infestans T30-4] , GO:0005509, "XP_002903573.1,EEY55349.1"

Stramenopiles-
Phytophthora_sojae_jgi137146,951,1789.62,0,"gi|301121630|ref|XP_002908542.1|serine/threonine-protein phosphatase, putative [Phytophthora infestans T30-4] ", "GO:0005509,GO:0016787,GO:0004721", "XP_002908542.1,EEY61625.1"

Stramenopiles-
Phytophthora_capsici_jgi19179,946,1791.93,0,"gi|301121630|ref|XP_002908542.1|serine/threonine-protein phosphatase, putative [Phytophthora infestans T30-4] ", "GO:0005509,GO:0016787,GO:0004721", "XP_002908542.1,EEY61625.1"

Stramenopiles-
Phytophthora_ramorum_jgi77307,942,1765.36,0,"gi|301121630|ref|XP_002908542.1|serine/threonine-protein phosphatase, putative [Phytophthora infestans T30-4] ", "GO:0005509,GO:0016787,GO:0004721", "XP_002908542.1,EEY61625.1"

Stramenopiles-Aureococcus_anophagefferens_jgi4337,234,171.4,7.20E-41,gi|291232192|ref|XP_002736042.1|PREDICTED: phosphodiesterase 9A-like [Saccoglossus kowalevskii],,XP_002736042.1

Stramenopiles-Aureococcus_anophagefferens_jgi12482,229,174.866,5.63E-42,gi|126325421|ref|XP_001375398.1|PREDICTED: similar to PDE9A protein [Monodelphis domestica],,XP_001375398.1

Stramenopiles-Aureococcus_anophagefferens_jgi2739,270,178.333,6.95E-43,gi|194226286|ref|XP_001491056.2|PREDICTED: phosphodiesterase 9A [Equus caballus],,XP_001491056.2

Stramenopiles-Fragilariopsis_cylindrus_jgi194811,410,470.7,1.43E-130,gi|219115946|ref|XP_002178768.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005524,GO:0005488,GO:0016740,GO:0008152,GO:0000166,GO:0003824","XP_002178768.1,EEC49466.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223996857,388,801.971,0,gi|223996857|ref|XP_002288102.1|hypothetical protein THAPSDRAFT_261602 [Thalassiosira pseudonana CCMP1335] ,"
GO:0005524,GO:0005488,GO:0016740,GO:0008152,GO:0000166,GO:0003824","XP_002288102.1,EED95545.1"

Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219115946,418,865.529,0,gi|219115946|ref|XP_002178768.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005524,GO:0005488,GO:0016740,GO:0008152,GO:0000166,GO:0003824","XP_002178768.1,EEC49466.1"

Stramenopiles-Aureococcus_anophagefferens_jgi55300,404,278.87,6.89E-73,gi|157106847|ref|XP_001649510.1|molybdopterin biosynthesis moeb protein [Aedes aegypti] ,"
GO:0016740,GO:0008033,GO:0000166,GO:0005737,GO:0005524,GO:0016783,GO:0016779,GO:0003824,GO:0006777,GO:0004792,GO:0046872,GO:0008152,GO:0005829,GO:0005488","XP_001649510.1,Q17CA7.1,EAT43968.1"

Stramenopiles-Phytophthora_sojae_jgi130255,475,437.573,1.68E-120,"gi|301122607|ref|XP_002909030.1|molybdenum cofactor synthesis protein, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0008152,GO:0003824","XP_002909030.1,EEY57844.1"

Stramenopiles-Phytophthora_ramorum_jgi71032,424,373.244,2.86E-101,"gi|301122607|ref|XP_002909030.1|molybdenum cofactor synthesis protein, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0008152,GO:0003824","XP_002909030.1,EEY57844.1"

Stramenopiles-Phytophthora_capsici_jgi3852,461,404.831,1.18E-110,"gi|301122607|ref|XP_002909030.1|molybdenum cofactor synthesis protein, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0008152,GO:0003824","XP_002909030.1,EEY57844.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi257224,875,70.0922,1.53E-09,gi|158148975|dbj|BAF82021.1|piggyBac transposase Uribo1 [Xenopus borealis],,BAF82021.1

Stramenopiles-
Phytophthora_sojae_jgi138933,671,707.983,0,gi|301104417|ref|XP_002901293.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0004437,"XP_002901293.1,EEY58820.1"

Stramenopiles-
Phytophthora_capsici_jgi11648,645,659.833,0,gi|301104417|ref|XP_002901293.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0004437,"XP_002901293.1,EEY58820.1"

Stramenopiles-

Phytophthora ramorum_jgi79887,1534,1592.79,0,gi|301111602|ref|XP_002904880.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0004437,"XP_002904880.1,EEY53262.1"

Stramenopiles-

Phytophthora sojae_jgi135769,1723,1594.33,0,gi|301111602|ref|XP_002904880.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0004437,"XP_002904880.1,EEY53262.1"

Stramenopiles-

Phaeodactylum tricorutum_CCAP_1055/1_gi219119779,322,672.159,0,gi|219119779|ref|XP_002180642.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,
,"XP_002180642.1,EEC48050.1"

Stramenopiles-

Phaeodactylum tricorutum_CCAP_1055/1_gi219120807,451,937.562,0,gi|219120807|ref|XP_002185635.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,
GO:0016787,GO:0008152,GO:0007047,GO:0005975,GO:0016798,GO:0004650,"XP_002185635.1,ACI65105.1"

Stramenopiles-Aureococcus anophagefferens_jgi2438,295,322.013,4.68E-

86,gi|219120807|ref|XP_002185635.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,
,"

GO:0016787,GO:0008152,GO:0007047,GO:0005975,GO:0016798,GO:0004650,"XP_002185635.1,ACI65105.1"

Stramenopiles-Thalassiosira pseudonana_CCMP1335_gi223994361,223,457.218,4.90E-127,gi|223994361|ref|XP_002286864.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
" GO:0009190,GO:0016849","XP_002286864.1,EED96505.1"

Stramenopiles-

Thalassiosira pseudonana_CCMP1335_gi224008556,549,1136.71,0,gi|224008556|ref|XP_002293237.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
GO:0009190,GO:0016849","XP_002293237.1,EED89698.1"

Stramenopiles-

Thalassiosira pseudonana_CCMP1335_gi223999345,830,1723.75,0,gi|223999345|ref|XP_002289345.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
GO:0009190,GO:0016849","XP_002289345.1,EED92882.1"

Stramenopiles-

Phytophthora sojae_jgi140884,868,1447.95,0,gi|301113376|ref|XP_002998458.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,
GO:0009190,GO:0016849,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810","XP_002998458.1,EEY69811.1"

Stramenopiles-

Phytophthora ramorum_jgi80869,740,1345.49,0,gi|301113376|ref|XP_002998458.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,
GO:0009190,GO:0016849,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810","XP_002998458.1,EEY69811.1"

Stramenopiles-Aureococcus anophagefferens_jgi71178,1197,600.512,4.80E-

169,gi|301113376|ref|XP_002998458.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,
,"

GO:0009190,GO:0016849,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810","XP_002998458.1,EEY69811.1"

Stramenopiles-Aureococcus anophagefferens_jgi31132,737,499.59,5.30E-

139,gi|301109349|ref|XP_002903755.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,
,"

GO:0009190,GO:0016849","XP_002903755.1,EEY54810.1"

Stramenopiles-

Phytophthora sojae_jgi130119,1302,1589.32,0,gi|301109349|ref|XP_002903755.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,
,"

age-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0009190,GO:0016849", "XP_002903755.1,EEY54810.1"
Stramenopiles-
Phytophthora capsici_jgi112552,709,781.171,0,gi|301109349|ref|XP_002903755.1|Vol
tage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0009190,GO:0016849", "XP_002903755.1,EEY54810.1"
Stramenopiles-
Phytophthora ramorum_jgi74076,1353,1578.15,0,gi|301109349|ref|XP_002903755.1|Vol
tage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0009190,GO:0016849", "XP_002903755.1,EEY54810.1"
Stramenopiles-Aureococcus anophagefferens_jgi69239,484,59.3066,1.07E-
06,gi|89891281|ref|ZP_01202788.1|conserved hypothetical protein [Flavobacteria
bacterium BBFL7] , " GO:0005102,GO:0007165", "ZP_01202788.1,EAS19253.1"
Stramenopiles-Fragilariopsis cylindrus_jgi248235,179,168.703,2.31E-
40,gi|255078914|ref|XP_002503037.1|predicted protein [Micromonas sp. RCC299] , "
GO:0045454,GO:0005783", "XP_002503037.1,ACO64295.1"
Stramenopiles-Phytophthora brassicae_esContig956_2,194,295.434,2.17E-
78,gi|119866043|gb|ABM05490.1|NUK7 [Phytophthora infestans],
GO:0045454,ABM05490.1
Stramenopiles-
Phytophthora ramorum_jgi82203,423,660.218,0,gi|119866043|gb|ABM05490.1|NUK7
[Phytophthora infestans], GO:0045454,ABM05490.1
Stramenopiles-
Phytophthora capsici_jgi113953,421,696.812,0,gi|119866043|gb|ABM05490.1|NUK7
[Phytophthora infestans], GO:0045454,ABM05490.1
Stramenopiles-
Phytophthora sojae_jgi137340,425,666.381,0,gi|119866043|gb|ABM05490.1|NUK7
[Phytophthora infestans], GO:0045454,ABM05490.1
Stramenopiles-
Thalassiosira pseudonana_CCMP1335_gi223996751,541,1115.14,0,gi|223996751|ref|XP_
002288049.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
GO:0005488,GO:0008152,GO:0003824", "XP_002288049.1,EED95492.1"
Stramenopiles-
Phaeodactylum tricornutum_CCAP_1055/1_gi219115717,281,573.163,1.14E-
161,gi|219115717|ref|XP_002178654.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , "XP_002178654.1,EEC50319.1"
Stramenopiles-Fragilariopsis cylindrus_jgi216468,259,460.685,6.58E-
128,gi|219115717|ref|XP_002178654.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , "XP_002178654.1,EEC50319.1"
Stramenopiles-Aureococcus anophagefferens_jgi65882,1500,431.409,4.26E-
118,gi|219115717|ref|XP_002178654.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , "XP_002178654.1,EEC50319.1"
Stramenopiles-Phytophthora ramorum_jgi85822,457,348.206,1.32E-
93,gi|301107712|ref|XP_002902938.1|conserved hypothetical protein [Phytophthora
infestans T30-4] , "XP_002902938.1,EEY56108.1"
Stramenopiles-Phytophthora sojae_jgi131653,453,356.295,4.03E-
96,gi|301107712|ref|XP_002902938.1|conserved hypothetical protein [Phytophthora
infestans T30-4] , "XP_002902938.1,EEY56108.1"
Stramenopiles-Phytophthora capsici_jgi34796,451,359.762,3.59E-
97,gi|301107712|ref|XP_002902938.1|conserved hypothetical protein [Phytophthora
infestans T30-4] , "XP_002902938.1,EEY56108.1"
Stramenopiles-
Aureococcus anophagefferens_jgi52441,763,684.485,0,gi|219125424|ref|XP_002182982
.1|channel voltage activated chloride channel [Phaeodactylum tricornutum CCAP
1055/1] ,"

GO:0006821,GO:0005247,GO:0016021,GO:0016020,GO:0055085,GO:0005216", "XP_002182982.1,EEC45718.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219120987,768,1580.46,0,gi|219120987|ref|XP_002185725.1|voltage activated chloride channel CLC7 type [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0006821,GO:0005247,GO:0016020,GO:0055085,GO:0005216", "XP_002185725.1,ACI65195.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi213110,811,1003.05,0,gi|219120987|ref|XP_002185725.1|voltage activated chloride channel CLC7 type [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0006821,GO:0005247,GO:0016020,GO:0055085,GO:0005216", "XP_002185725.1,ACI65195.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi205516,798,1117.06,0,gi|219125424|ref|XP_002182982.1|channel voltage activated chloride channel [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0006821,GO:0005247,GO:0016021,GO:0016020,GO:0055085,GO:0005216", "XP_002182982.1,EEC45718.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219125424,693,1426.38,0,gi|219125424|ref|XP_002182982.1|channel voltage activated chloride channel [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0006821,GO:0005247,GO:0016021,GO:0016020,GO:0055085,GO:0005216", "XP_002182982.1,EEC45718.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224013975,681,1405.96,0,gi|224013975|ref|XP_002296651.1|chloride channel protein 7 [Thalassiosira pseudonana CCMP1335] ,"
GO:0006821,GO:0005247,GO:0016021,GO:0016020,GO:0055085,GO:0005216", "XP_002296651.1,EED87046.1"
Stramenopiles-
Phytophthora_capsici_jgi115302,1679,1762.66,0,gi|301107468|ref|XP_002902816.1|Chloride Channel (ClC) Family [Phytophthora infestans T30-4] ,"
GO:0006821,GO:0005247,GO:0016021,GO:0016020,GO:0055085,GO:0005216", "XP_002902816.1,EEY55986.1"
Stramenopiles-
Phytophthora_sojae_jgi132758,968,1774.22,0,gi|301107468|ref|XP_002902816.1|Chloride Channel (ClC) Family [Phytophthora infestans T30-4] ,"
GO:0006821,GO:0005247,GO:0016021,GO:0016020,GO:0055085,GO:0005216", "XP_002902816.1,EEY55986.1"
Stramenopiles-
Phytophthora_ramorum_jgi79631,958,1772.29,0,gi|301107468|ref|XP_002902816.1|Chloride Channel (ClC) Family [Phytophthora infestans T30-4] ,"
GO:0006821,GO:0005247,GO:0016021,GO:0016020,GO:0055085,GO:0005216", "XP_002902816.1,EEY55986.1"
Stramenopiles-
Phytophthora_ramorum_jgi39633,680,1129.01,0,gi|301098746|ref|XP_002898465.1|Chloride Channel (ClC) Family [Phytophthora infestans T30-4] ,"
GO:0006821,GO:0005247,GO:0016021,GO:0016020,GO:0055085,GO:0005216", "XP_002898465.1,EEY62942.1"
Stramenopiles-
Phytophthora_sojae_jgi134892,649,1200.65,0,gi|301117982|ref|XP_002906719.1|calcineurin-like phosphoesterase, putative [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0016787,GO:0003993", "XP_002906719.1,EEY66120.1"

Stramenopiles-

Phytophthora_sojae_jgi133696,694,1117.06,0,"gi|301117982|ref|XP_002906719.1|calcineurin-like phosphoesterase, putative [Phytophthora infestans T30-4] ","GO:0046872,GO:0016787,GO:0003993","XP_002906719.1,EEY66120.1"

Stramenopiles-Phytophthora_capsici_jgi114419,279,344.739,5.74E-

93,"gi|301117982|ref|XP_002906719.1|calcineurin-like phosphoesterase, putative [Phytophthora infestans T30-4] ","GO:0046872,GO:0016787,GO:0003993","XP_002906719.1,EEY66120.1"

Stramenopiles-

Phytophthora_capsici_jgi75766,663,969.148,0,"gi|301117020|ref|XP_002906238.1|calcineurin-like phosphoesterase, putative [Phytophthora infestans T30-4] ","GO:0046872,GO:0016787,GO:0003993","XP_002906238.1,EEY65639.1"

Stramenopiles-

Phytophthora_ramorum_jgi84778,652,1182.16,0,"gi|301117982|ref|XP_002906719.1|calcineurin-like phosphoesterase, putative [Phytophthora infestans T30-4] ","GO:0046872,GO:0016787,GO:0003993","XP_002906719.1,EEY66120.1"

Stramenopiles-

Phytophthora_ramorum_jgi84597,819,790.03,0,gi|301092936|ref|XP_002997318.1|kinesin-like protein [Phytophthora infestans T30-4] ,"

GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002997318.1,EEY68890.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219130909,594,1237.63,0,gi|219130909|ref|XP_002185595.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0009116,GO:0016740,GO:0009113,GO:0008152,GO:0004044","XP_002185595.1,EEC42893.1"

Stramenopiles-Aureococcus_anophagefferens_jgi71078,1324,74.7146,9.96E-

11,gi|294872674|ref|XP_002766365.1|hypothetical protein Pmar_PMAR019730 [Perkinsus marinus ATCC 50983] , GO:0005509,"XP_002766365.1,EEQ99082.1"

Stramenopiles-Phytophthora_capsici_jgi28926,230,424.476,4.09E-

117,gi|301118522|ref|XP_002906989.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0006413,GO:0005488,GO:0006446,GO:0003743,GO:0005852,GO:0043022,GO:0005634","XP_002906989.1,EEY66390.1"

Stramenopiles-Phytophthora_sojae_jgi136804,230,419.468,1.26E-

115,gi|301118522|ref|XP_002906989.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0006413,GO:0005488,GO:0006446,GO:0003743,GO:0005852,GO:0043022,GO:0005634","XP_002906989.1,EEY66390.1"

Stramenopiles-Phytophthora_ramorum_jgi82310,230,428.713,2.24E-

118,gi|301118522|ref|XP_002906989.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0006413,GO:0005488,GO:0006446,GO:0003743,GO:0005852,GO:0043022,GO:0005634","XP_002906989.1,EEY66390.1"

Stramenopiles-Aureococcus_anophagefferens_jgi68761,230,158.303,5.51E-

37,gi|255088603|ref|XP_002506224.1|predicted protein [Micromonas sp. RCC299] , GO:0003723,"XP_002506224.1,ACO67482.1"

Stramenopiles-Phytophthora_capsici_jgi101938,294,153.295,2.66E-

35,gi|291239634|ref|XP_002739727.1|PREDICTED: Luc7 homolog (S. cerevisiae)-like [Saccoglossus kowalevskii],,XP_002739727.1

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223993001,450,927.932,0,gi|223993001|ref|XP_002286184.1|predicted protein [Thalassiosira pseudonana CCMP1335]

,,"XP_002286184.1,EED95825.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi209432,488,311.997,1.12E-82,gi|219120071|ref|XP_002180782.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,, "XP_002180782.1,EEC47434.1"

Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219120071,473,956.822,0,gi|219120071|ref|XP_002180782.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,, "XP_002180782.1,EEC47434.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224004206,153,300.442,3.58E-80,gi|224004206|ref|XP_002295754.1|predicted protein [Thalassiosira pseudonana CCMP1335] , GO:0005509, "XP_002295754.1,ACI64471.1"

Stramenopiles-
Phytophthora_capsici_jgi87350,598,974.541,0,gi|301112499|ref|XP_002998020.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "GO:0008152,GO:0016758", "XP_002998020.1,EEY70366.1"

Stramenopiles-
Phytophthora_sojae_jgi132514,627,1059.67,0,gi|301112499|ref|XP_002998020.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "GO:0008152,GO:0016758", "XP_002998020.1,EEY70366.1"

Stramenopiles-
Phytophthora_ramorum_jgi75924,619,1042.72,0,gi|301112499|ref|XP_002998020.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "GO:0008152,GO:0016758", "XP_002998020.1,EEY70366.1"

Stramenopiles-
Phytophthora_capsici_jgi35696,552,759.214,0,gi|301100113|ref|XP_002899147.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "GO:0008152,GO:0016758", "XP_002899147.1,EEY62511.1"

Stramenopiles-
Phytophthora_ramorum_jgi79867,558,771.541,0,gi|301100113|ref|XP_002899147.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "GO:0008152,GO:0016758", "XP_002899147.1,EEY62511.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi224545,197,241.506,3.79E-62,gi|219126281|ref|XP_002183389.1|hypothetical protein PHATRDRAFT_48891 [Phaeodactylum tricorutum CCAP 1055/1] , "GO:0055114,GO:0016705,GO:0016491,GO:0005506,GO:0031418", "XP_002183389.1,EEC45089.1"

Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219124513,193,408.683,1.53E-112,gi|219124513|ref|XP_002182546.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , "GO:0055114,GO:0016705,GO:0016491,GO:0005506,GO:0031418", "XP_002182546.1,EEC45833.1"

Stramenopiles-Aureococcus_anophagefferens_jgi39521,239,133.65,1.65E-29,gi|310831339|ref|YP_003969982.1|putative prolyl 4-hydroxylase alpha subunit [Cafeteria roenbergensis virus BV-PW1] ,, "YP_003969982.1,ADO67383.1"

Stramenopiles-Aureococcus_anophagefferens_jgi14928,182,265.003,2.22E-69,gi|298712929|emb|CBJ26831.1|conserved unknown protein [Ectocarpus siliculosus] , "GO:0055114,GO:0016705,GO:0005506,GO:0031418", "CBJ26831.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224008727,457,936.406,0,gi|224008727|ref|XP_002293322.1|hypothetical protein THAPSDRAFT_269660 [Thalassiosira pseudonana CCMP1335] ,, "XP_002293322.1,EED89058.1"

Stramenopiles-Aureococcus_anophagefferens_jgi3195,338,327.02,2.01E-87,gi|301095607|ref|XP_002896903.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002896903.1,EEY66602.1"

Stramenopiles-

Phytophthora_ramorum_jgi81215,487,718.768,0,gi|301095607|ref|XP_002896903.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002896903.1,EEY66602.1"

Stramenopiles-Phytophthora_capsici_jgi67641,427,542.347,3.54E-152,gi|301095607|ref|XP_002896903.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002896903.1,EEY66602.1"

Stramenopiles-

Phytophthora_sojae_jgi130604,492,743.421,0,gi|301095607|ref|XP_002896903.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002896903.1,EEY66602.1"

Stramenopiles-

Phytophthora_ramorum_jgi75937,1296,1972.59,0,gi|301112451|ref|XP_002997996.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005509, "XP_002997996.1,EEY70342.1"

Stramenopiles-

Phytophthora_sojae_jgi132531,1284,2002.64,0,gi|301112451|ref|XP_002997996.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005509, "XP_002997996.1,EEY70342.1"

Stramenopiles-

Phytophthora_capsici_jgi112236,463,672.544,0,gi|301112451|ref|XP_002997996.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005509, "XP_002997996.1,EEY70342.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi183808,359,164.851,1.24E-38,gi|223996037|ref|XP_002287692.1|hypothetical protein THAPSDRAFT_261258 [Thalassiosira pseudonana CCMP1335] , "GO:0046872,GO:0008270,GO:0005515", "XP_002287692.1,EED95135.1"

Stramenopiles-Phytophthora_capsici_jgi121428,336,550.436,9.85E-155,gi|301097730|ref|XP_002897959.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002897959.1,EEY64456.1"

Stramenopiles-Phytophthora_sojae_jgi156200,377,621.698,4.52E-176,gi|301097730|ref|XP_002897959.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002897959.1,EEY64456.1"

Stramenopiles-Phytophthora_ramorum_jgi73728,383,627.091,9.10E-178,gi|301097730|ref|XP_002897959.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002897959.1,EEY64456.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219118680,385,802.357,0,gi|219118680|ref|XP_002180108.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002180108.1,EEC48299.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi246102,444,283.878,2.72E-74,gi|219118680|ref|XP_002180108.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002180108.1,EEC48299.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224009820,332,689.108,0,gi|224009820|ref|XP_002293868.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002293868.1,EED88877.1"

Stramenopiles-Phytophthora_ramorum_jgi95422,141,241.506,2.10E-62,gi|301107380|ref|XP_002902772.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002902772.1,EEY55942.1"

Stramenopiles-

Phytophthora_capsici_jgi37321,450,721.079,0,gi|301103252|ref|XP_002900712.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "GO:0008168,GO:0006412", "XP_002900712.1,EEY59519.1"

Stramenopiles-

Phytophthora ramorum_jgi94164,443,731.48,0,gi|301103252|ref|XP_002900712.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0008168,GO:0006412","XP_002900712.1,EEY59519.1"

Stramenopiles-Aureococcus anophagefferens_jgi65154,304,245.358,5.20E-63,gi|256675829|ref|ZP_05486140.1|short-chain dehydrogenase/reductase SDR [Streptomyces sp. SPB78] ,"

GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0003824","ZP_05486140.1,ZP_07270688.1,EFK99056.1"

Stramenopiles-Phytophthora capsici_jgi80203,399,493.426,1.83E-137,"gi|301111726|ref|XP_002904942.1|oxidoreductase, putative [Phytophthora infestans T30-4] ","

GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0003824","XP_002904942.1,EEY53324.1"

Stramenopiles-Phytophthora ramorum_jgi95562,514,478.789,6.17E-133,"gi|301111726|ref|XP_002904942.1|oxidoreductase, putative [Phytophthora infestans T30-4] ","

GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0003824","XP_002904942.1,EEY53324.1"

Stramenopiles-

Phaeodactylum tricornutum_CCAP_1055/1_gi219121710,1367,2810.02,0,gi|219121710|ref|XP_002181204.1|non ribosomal peptide synthase [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0055114,GO:0048037,GO:0005488,GO:0016491,GO:0000036,GO:0008152,GO:0003824,GO:0004043","XP_002181204.1,EEC47127.1"

Stramenopiles-Aureococcus anophagefferens_jgi52724,264,206.838,1.71E-51,"gi|87312271|ref|ZP_01094370.1|oxidoreductase, short-chain dehydrogenase/reductase family protein [Blastopirellula marina DSM 3645] ","

GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0003824","ZP_01094370.1,EAQ76944.1"

Stramenopiles-Phytophthora capsici_jgi12414,511,512.686,4.75E-143,gi|301095611|ref|XP_002896905.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002896905.1,EEY66604.1"

Stramenopiles-Phytophthora capsici_jgi33944,526,474.167,1.82E-131,gi|301095611|ref|XP_002896905.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002896905.1,EEY66604.1"

Stramenopiles-Phytophthora sojae_jgi141704,543,498.819,6.87E-139,gi|301095619|ref|XP_002896909.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002896909.1,EEY66608.1"

Stramenopiles-Aureococcus anophagefferens_jgi62084,816,193.356,1.10E-46,gi|301100019|ref|XP_002899100.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"

GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810","XP_002899100.1,EEY62464.1"

Stramenopiles-Aureococcus anophagefferens_jgi61180,822,196.438,1.14E-47,gi|301111924|ref|XP_002905041.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"

GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810","XP_002905041.1,EEY53423.1"

Stramenopiles-Phytophthora capsici_jgi18241,424,497.278,1.58E-138,gi|301101539|ref|XP_002899858.1|phosphatidylinositol-4-phosphate-5-kinase (PIPK-D7/GPCR-PIPK) [Phytophthora infestans T30-4] ,"

GO:0016301,GO:0004888,GO:0046488,GO:0016307,GO:0016020,GO:0007166","XP_002899858.1,EEY60912.1"

Stramenopiles-

Phytophthora_ramorum_jgi85104,1235,1891.7,0,gi|301101539|ref|XP_002899858.1|phosphatidylinositol-4-phosphate-5-kinase (PIPK-D7/GPCR-PIPK) [Phytophthora infestans T30-4] ,"

GO:0016301,GO:0004888,GO:0046488,GO:0016307,GO:0016020,GO:0007166","XP_002899858.1,EEY60912.1"

Stramenopiles-

Phytophthora_ramorum_jgi72755,1107,1642.09,0,gi|301122665|ref|XP_002909059.1|phosphatidylinositol-4-phosphate-5-kinase (Pi-PIPKD5) [Phytophthora infestans T30-4] ,"

GO:0016301,GO:0046488,GO:0016307,GO:0004930,GO:0016020,GO:0007186","XP_002909059.1,EEY57873.1"

Stramenopiles-

Phytophthora_sojae_jgi130286,922,1658.27,0,gi|301122665|ref|XP_002909059.1|phosphatidylinositol-4-phosphate-5-kinase (Pi-PIPKD5) [Phytophthora infestans T30-4] ,"

GO:0016301,GO:0046488,GO:0016307,GO:0004930,GO:0016020,GO:0007186","XP_002909059.1,EEY57873.1"

Stramenopiles-Phytophthora_parasitica_esgi68418942_1,262,320.857,8.98E-86,gi|301122665|ref|XP_002909059.1|phosphatidylinositol-4-phosphate-5-kinase (Pi-PIPKD5) [Phytophthora infestans T30-4] ,"

GO:0016301,GO:0046488,GO:0016307,GO:0004930,GO:0016020,GO:0007186","XP_002909059.1,EEY57873.1"

Stramenopiles-

Phytophthora_ramorum_jgi74484,1831,1679.46,0,gi|301105377|ref|XP_002901772.1|phosphatidylinositol-4-phosphate-5-kinase (Pi-PIPK-D2) [Phytophthora infestans T30-4] ,"

GO:0016301,GO:0004888,GO:0046488,GO:0016307,GO:0016020,GO:0007166","XP_002901772.1,EEY57162.1"

Stramenopiles-

Phytophthora_sojae_jgi158495,1751,1736.85,0,gi|301105377|ref|XP_002901772.1|phosphatidylinositol-4-phosphate-5-kinase (Pi-PIPK-D2) [Phytophthora infestans T30-4] ,"

GO:0016301,GO:0004888,GO:0046488,GO:0016307,GO:0016020,GO:0007166","XP_002901772.1,EEY57162.1"

Stramenopiles-

Phytophthora_sojae_jgi132410,865,856.284,0,gi|301101281|ref|XP_002899729.1|phosphatidylinositol-4-phosphate-5-kinase (PIPK-D6/GPCR-PIPK) [Phytophthora infestans T30-4] ,"

GO:0004888,GO:0016021,GO:0016020,GO:0016307,GO:0046488,GO:0004930,GO:0016301,GO:0007166,GO:0004872,GO:0007186","XP_002899729.1,EEY60783.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi183571,252,415.616,2.57E-

114,gi|223995003|ref|XP_002287185.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0007049,GO:0051301,GO:0005634","XP_002287185.1,EED94628.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223995003,322,669.078,0,gi|223995003|ref|XP_002287185.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"

GO:0007049,GO:0051301,GO:0005634","XP_002287185.1,EED94628.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219124659,222,458.759,1.97E-127,gi|219124659|ref|XP_002182616.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , GO:0005634,"XP_002182616.1,EEC45903.1"

Stramenopiles-Phytophthora_capsici_jgi70750,317,588.956,2.11E-

166,gi|301117658|ref|XP_002906557.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005634,"XP_002906557.1,EEY65958.1"

Stramenopiles-Phytophthora_sojae_jgi134106,316,590.497,7.04E-167,gi|301117658|ref|XP_002906557.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005634,"XP_002906557.1,EEY65958.1"

Stramenopiles-Phytophthora_ramorum_jgi81340,316,582.793,1.79E-164,gi|301117658|ref|XP_002906557.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005634,"XP_002906557.1,EEY65958.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224002687,355,741.495,0,gi|224002687|ref|XP_002291015.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005488,GO:0008152,GO:0044237,GO:0003824,GO:0050662", "XP_002291015.1,EEY91122.1"

Stramenopiles-
Phytophthora_ramorum_jgi73108,386,744.962,0,"gi|301114943|ref|XP_002999241.1|UDP-glucose 4-epimerase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0008152,GO:0044237,GO:0003824,GO:0050662", "XP_002999241.1,EEY69387.1"

Stramenopiles-
Phytophthora_capsici_jgi102334,387,755.362,0,"gi|301114943|ref|XP_002999241.1|UDP-glucose 4-epimerase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0008152,GO:0044237,GO:0003824,GO:0050662", "XP_002999241.1,EEY69387.1"

Stramenopiles-
Phytophthora_sojae_jgi129934,386,754.977,0,"gi|301114943|ref|XP_002999241.1|UDP-glucose 4-epimerase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0008152,GO:0044237,GO:0003824,GO:0050662", "XP_002999241.1,EEY69387.1"

Stramenopiles-
Phytophthora_ramorum_jgi73107,371,727.628,0,"gi|301114945|ref|XP_002999242.1|UDP-glucose 4-epimerase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0008152,GO:0044237,GO:0003824,GO:0050662", "XP_002999242.1,EEY69388.1"

Stramenopiles-
Phytophthora_parasitica_esContig1059_3,388,750.74,0,"gi|301114945|ref|XP_002999242.1|UDP-glucose 4-epimerase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0008152,GO:0044237,GO:0003824,GO:0050662", "XP_002999242.1,EEY69388.1"

Stramenopiles-
Phytophthora_sojae_jgi129935,371,750.355,0,"gi|301114945|ref|XP_002999242.1|UDP-glucose 4-epimerase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0008152,GO:0044237,GO:0003824,GO:0050662", "XP_002999242.1,EEY69388.1"

Stramenopiles-Phytophthora_capsici_jgi102919,276,556.599,9.65E-157,"gi|301114945|ref|XP_002999242.1|UDP-glucose 4-epimerase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0008152,GO:0044237,GO:0003824,GO:0050662", "XP_002999242.1,EEY69388.1"

Stramenopiles-
Phytophthora_sojae_jgi108302,883,1649.41,0,gi|301097499|ref|XP_002897844.1|heat shock protein 101 [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0006950,GO:0019538,GO:0000166,GO:0017111,GO:0005515", "XP_002897844.1,EEY64644.1"

Stramenopiles-
Phytophthora_ramorum_jgi71064,879,1637.47,0,gi|301097499|ref|XP_002897844.1|heat shock protein 101 [Phytophthora infestans T30-4] ,"

GO:0005524,GO:0006950,GO:0019538,GO:0000166,GO:0017111,GO:0005515", "XP_002897844.1,EEY64644.1"
Stramenopiles-
Phytophthora capsici_jgi118497,563,775.778,0,gi|301097499|ref|XP_002897844.1|heat shock protein 101 [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0006950,GO:0019538,GO:0000166,GO:0017111,GO:0005515", "XP_002897844.1,EEY64644.1"
Stramenopiles-
Phaeodactylum tricorutum_CCAP_1055/1_gi219125089,887,1790.78,0,gi|219125089|ref|XP_002182821.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0005524,GO:0019538,GO:0000166,GO:0017111,GO:0005515", "XP_002182821.1,EEC45557.1"
Stramenopiles-
Thalassiosira pseudonana_CCMP1335_gi223997144,926,1871.67,0,gi|223997144|ref|XP_002288245.1|member of the HSP104/clp superfamily [Thalassiosira pseudonana CCMP1335] ,"
GO:0005524,GO:0019538,GO:0000166,GO:0017111,GO:0005515", "XP_002288245.1,EED93681.1"
Stramenopiles-Aureococcus anophagefferens_jgi70780,1187,431.409,3.57E-118,gi|303283942|ref|XP_003061262.1|predicted protein [Micromonas pusilla CCMP1545] , " GO:0016779,GO:0008152", "XP_003061262.1,EEH54912.1"
Stramenopiles-
Phaeodactylum tricorutum_CCAP_1055/1_gi219129244,712,1470.29,0,gi|219129244|ref|XP_002184804.1|precursor of phosphorylase udp-glucose diphosphorylase [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0016779,GO:0016740,GO:0003983,GO:0008152", "XP_002184804.1,EEC43863.1"
Stramenopiles-
Fragilariopsis cylindrus_jgi183667,641,951.044,0,gi|219129244|ref|XP_002184804.1|precursor of phosphorylase udp-glucose diphosphorylase [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0016779,GO:0016740,GO:0003983,GO:0008152", "XP_002184804.1,EEC43863.1"
Stramenopiles-
Thalassiosira pseudonana_CCMP1335_gi224009484,608,1248.42,0,gi|224009484|ref|XP_002293700.1|hypothetical protein THAPSDRAFT_42326 [Thalassiosira pseudonana CCMP1335] , " GO:0016779,GO:0008152", "XP_002293700.1,EED88709.1"
Stramenopiles-Aureococcus anophagefferens_jgi22705,650,581.252,1.47E-163,gi|299470261|emb|CBN79565.1|conserved unknown protein [Ectocarpus siliculosus] , " GO:0016779,GO:0008152", "CBN79565.1"
Stramenopiles-
Phaeodactylum tricorutum_CCAP_1055/1_gi219119007,600,1240.71,0,gi|219119007|ref|XP_002180270.1|udp-n-acetylglucosamine diphosphorylase [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0016779,GO:0016740,GO:0008152,GO:0003977", "XP_002180270.1,EEC48461.1"
Stramenopiles-
Fragilariopsis cylindrus_jgi211962,635,704.516,0,gi|219119007|ref|XP_002180270.1|udp-n-acetylglucosamine diphosphorylase [Phaeodactylum tricorutum CCAP 1055/1] , " GO:0016779,GO:0016740,GO:0008152,GO:0003977", "XP_002180270.1,EEC48461.1"
Stramenopiles-
Thalassiosira pseudonana_CCMP1335_gi224003733,600,1237.25,0,gi|224003733|ref|XP_002291538.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0016779,GO:0008152", "XP_002291538.1,EED91645.1"
Stramenopiles-Aureococcus anophagefferens_jgi28944,616,535.413,7.71E-150,gi|255079326|ref|XP_002503243.1|predicted protein [Micromonas sp. RCC299] ,"
GO:0016779,GO:0008152", "XP_002503243.1,ACO64501.1"

Stramenopiles-Blastocystis_hominis_tbBHL00001171_3,220,273.478,1.02E-71,gi|300123614|emb|CBK24886.2|unnamed protein product [Blastocystis hominis],"GO:0016779,GO:0008152",CBK24886.2

Stramenopiles-
Phytophthora_sojae_jgi141803,999,1726.84,0,gi|301106332|ref|XP_002902249.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002902249.1,EEY56921.1"

Stramenopiles-
Phytophthora_ramorum_jgi82041,991,1743.01,0,gi|301106332|ref|XP_002902249.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002902249.1,EEY56921.1"

Stramenopiles-Aureococcus_anophagefferens_jgi70759,1527,415.616,2.66E-113,"gi|301105809|ref|XP_002901988.1|aldehyde dehydrogenase, putative [Phytophthora infestans T30-4] ", "GO:0006081,GO:0055114,GO:0016491,GO:0008152,GO:0004030", "XP_002901988.1,EEY57378.1"

Stramenopiles-
Phytophthora_ramorum_jgi78368,663,684.871,0,gi|301103815|ref|XP_002900993.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002900993.1,EEY59383.1"

Stramenopiles-Phytophthora_capsici_jgi11692,560,611.683,8.32E-173,gi|301103815|ref|XP_002900993.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002900993.1,EEY59383.1"

Stramenopiles-
Phytophthora_sojae_jgi144745,1732,2886.67,0,gi|301114397|ref|XP_002998968.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005509,"XP_002998968.1,EEY69114.1"

Stramenopiles-
Fragilariopsis_cylindrus_jgi276098,747,796.579,0,gi|219124450|ref|XP_002182516.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , "GO:0055114,GO:0009331,GO:0016491,GO:0004368,GO:0006072", "XP_002182516.1,EEC45803.1"

Stramenopiles-Aureococcus_anophagefferens_jgi66976,757,184.882,3.47E-44,"gi|115941928|ref|XP_001178503.1|PREDICTED: hypothetical protein, partial [Strongylocentrotus purpuratus]","XP_001178503.1"

Stramenopiles-
Fragilariopsis_cylindrus_jgi263777,574,683.33,0,gi|3283030|gb|AAD13804.1|silicon transporter [Cylindrotheca fusiformis],,AAD13804.1

Stramenopiles-
Fragilariopsis_cylindrus_jgi212017,576,675.626,0,gi|3283036|gb|AAD13807.1|silicon transporter [Cylindrotheca fusiformis],,AAD13807.1

Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219128344,506,1030.78,0,gi|219128344|ref|XP_002184375.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,,"XP_002184375.1,XP_002184376.1,ACJ65492.1,ACJ65493.1,EEC44124.1,EEC44125.1"

Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219128346,506,1030.78,0,gi|219128344|ref|XP_002184375.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,,"XP_002184375.1,XP_002184376.1,ACJ65492.1,ACJ65493.1,EEC44124.1,EEC44125.1"

Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219126028,512,1046.57,0,gi|219126028|ref|XP_002183269.1|silicon transporter [Phaeodactylum tricorutum CCAP 1055/1] ,,"XP_002183269.1,ACJ65491.1,EEC45487.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224004538,475,972.615,0,gi|82527195|gb|ABB81826.1|silicon transporter [Thalassiosira pseudonana],,ABB81826.1

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224002056,464,947.577,0,gi|82527193|gb|ABB81825.1|silicon transporter [Thalassiosira pseudonana],,ABB81825.1

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224003147,437,897.501,0,gi|82527197|gb|ABB81827.1|silicon transporter [Thalassiosira pseudonana],,ABB81827.1

Stramenopiles-Fragilariopsis_cylindrus_jgi211148,553,529.25,5.16E-

148,gi|219128344|ref|XP_002184375.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]

,,"XP_002184375.1,XP_002184376.1,ACJ65492.1,ACJ65493.1,EEC44124.1,EEC44125.1"

Stramenopiles-Phytophthora_capsici_jgi37307,343,344.739,8.00E-

93,"gi|301115672|ref|XP_002905565.1|RNA binding protein, putative [Phytophthora infestans T30-4] ", " GO:0003676,GO:0000166", "XP_002905565.1,EEY68406.1"

Stramenopiles-Phytophthora_brassicae_esContig1945_2,388,474.937,6.91E-

132,"gi|301115672|ref|XP_002905565.1|RNA binding protein, putative [Phytophthora infestans T30-4] ", " GO:0003676,GO:0000166", "XP_002905565.1,EEY68406.1"

Stramenopiles-Phytophthora_ramorum_jgi75500,343,540.421,1.15E-

151,"gi|301115672|ref|XP_002905565.1|RNA binding protein, putative [Phytophthora infestans T30-4] ", " GO:0003676,GO:0000166", "XP_002905565.1,EEY68406.1"

Stramenopiles-Phytophthora_sojae_jgi141148,357,550.821,7.60E-

155,"gi|301115672|ref|XP_002905565.1|RNA binding protein, putative [Phytophthora infestans T30-4] ", " GO:0003676,GO:0000166", "XP_002905565.1,EEY68406.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi171245,519,265.388,1.20E-

68,gi|298713553|emb|CBJ27081.1|conserved unknown protein [Ectocarpus siliculosus], " GO:0003676,GO:0000166", CBJ27081.1

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224009309,189,391.734,1.86E-

107,gi|224009309|ref|XP_002293613.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0003676,GO:0000166", "XP_002293613.1,EED89349.1"

Stramenopiles-Blastocystis_hominis_tbBHL00000002_1,558,412.535,6.03E-

113,gi|300121714|emb|CBK22289.2|unnamed protein product [Blastocystis hominis], " GO:0003735,GO:0003723,GO:0006412,GO:0030529,GO:0006396,GO:0005840,GO:0005622", CBK22289.2

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219111803,76,154.451,3.62E-

36,gi|219111803|ref|XP_002177653.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0003676,GO:0000166", "XP_002177653.1,EEC50467.1"

Stramenopiles-Aureococcus_anophagefferens_jgi32583,241,171.785,6.15E-

41,gi|299115572|emb|CBN75775.1|conserved unknown protein [Ectocarpus siliculosus], " GO:0003676,GO:0000166", CBN75775.1

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219130905,222,456.447,9.45E-

127,gi|219130905|ref|XP_002185593.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0003676,GO:0000166", "XP_002185593.1,EEC42891.1"

Stramenopiles-Aureococcus_anophagefferens_jgi37977,452,295.049,1.20E-

77,gi|255081020|ref|XP_002504076.1|thioredoxin [Micromonas sp. RCC299] , " GO:0045454,GO:0016491", "XP_002504076.1,ACO65334.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi195876,142,131.339,3.29E-

29,gi|223995913|ref|XP_002287630.1|MYB DNA binding protein/ transcription factor-like protein [Thalassiosira pseudonana CCMP1335]

,,"XP_002287630.1,EED95073.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi271054,280,146.747,2.75E-33,gi|219119053|ref|XP_002180293.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , GO:0045454,"XP_002180293.1,EEC48484.1"

Stramenopiles-Phytophthora_capsici_jgi123003,301,590.882,5.12E-167,gi|301112272|ref|XP_002905215.1|WD domain-containing protein [Phytophthora infestans T30-4] ,,"XP_002905215.1,EEY53597.1"

Stramenopiles-Phytophthora_sojae_jgi108359,301,601.668,3.23E-170,gi|301112272|ref|XP_002905215.1|WD domain-containing protein [Phytophthora infestans T30-4] ,,"XP_002905215.1,EEY53597.1"

Stramenopiles-Phytophthora_ramorum_jgi71484,301,587.03,7.33E-166,gi|301112272|ref|XP_002905215.1|WD domain-containing protein [Phytophthora infestans T30-4] ,,"XP_002905215.1,EEY53597.1"

Stramenopiles-Phytophthora_brassicae_esgi144592125_3,240,320.857,6.27E-86,gi|301112272|ref|XP_002905215.1|WD domain-containing protein [Phytophthora infestans T30-4] ,,"XP_002905215.1,EEY53597.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224005729,337,699.123,0,gi|224005729|ref|XP_002291825.1|hypothetical protein THAPSDRAFT_41583 [Thalassiosira pseudonana CCMP1335] ,,"XP_002291825.1,EED90676.1"

Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219121455,321,666.381,0,gi|219121455|ref|XP_002185951.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002185951.1,ACI65421.1"

Stramenopiles-Aureococcus_anophagefferens_jgi22631,351,363.229,2.78E-98,gi|299469791|emb|CBN76645.1|conserved unknown protein [Ectocarpus siliculosus],,CBN76645.1

Stramenopiles-
Phytophthora_ramorum_jgi72910,1096,1066.99,0,gi|301123033|ref|XP_002909243.1|kin esin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002909243 .1,EEY58057.1"

Stramenopiles-
Phytophthora_sojae_jgi158245,1136,1028.85,0,gi|301123033|ref|XP_002909243.1|kine sin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002909243 .1,EEY58057.1"

Stramenopiles-
Phytophthora_ramorum_jgi51019,436,838.565,0,gi|301110312|ref|XP_002904236.1|kine sin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002904236 .1,EEY54414.1"

Stramenopiles-
Phytophthora_sojae_jgi109123,349,706.057,0,gi|301110312|ref|XP_002904236.1|kines in-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002904236 .1,EEY54414.1"

Stramenopiles-Phytophthora_capsici_jgi118620,277,545.814,1.69E-153,gi|301110312|ref|XP_002904236.1|kinesin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002904236 .1,EEY54414.1"

Stramenopiles-Aureococcus_anophagefferens_jgi1243,457,426.402,3.03E-117,gi|301110312|ref|XP_002904236.1|kinesin-like protein [Phytophthora infestans T30-4] ,"

GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002904236.1,EEY54414.1"
Stramenopiles-Phytophthora_ramorum_jgi40072,308,603.594,7.70E-171,gi|301109070|ref|XP_002903616.1|kinesin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002903616.1,EEY55392.1"
Stramenopiles-Phytophthora_sojae_jgi121724,308,620.928,5.50E-176,gi|301109070|ref|XP_002903616.1|kinesin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002903616.1,EEY55392.1"
Stramenopiles-Phytophthora_capsici_jgi17366,337,625.55,2.34E-177,gi|301109070|ref|XP_002903616.1|kinesin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002903616.1,EEY55392.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219121187,433,898.271,0,"gi|219121187|ref|XP_002185822.1|glycosyl transferase, family 1 [Phaeodactylum tricornutum CCAP 1055/1] ", " GO:0009058,GO:0016740","XP_002185822.1,ACI65292.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi183873,485,396.741,3.17E-108,"gi|219121187|ref|XP_002185822.1|glycosyl transferase, family 1 [Phaeodactylum tricornutum CCAP 1055/1] ", "
GO:0009058,GO:0016740","XP_002185822.1,ACI65292.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224010481,549,1149.04,0,gi|224010481|ref|XP_002294198.1|glycosyltransferase [Thalassiosira pseudonana CCMP1335] ,"
GO:0009058,GO:0016740","XP_002294198.1,EED88553.1"
Stramenopiles-
Phytophthora_sojae_jgi108303,500,774.622,0,gi|301097485|ref|XP_002897837.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0009058,"XP_002897837.1,EEY64637.1"
Stramenopiles-Phytophthora_capsici_jgi91174,241,365.54,2.58E-99,gi|301097485|ref|XP_002897837.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0009058,"XP_002897837.1,EEY64637.1"
Stramenopiles-
Phytophthora_ramorum_jgi72993,492,772.311,0,gi|301097485|ref|XP_002897837.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0009058,"XP_002897837.1,EEY64637.1"
Stramenopiles-Phytophthora_capsici_jgi91171,180,325.094,1.71E-87,gi|301097485|ref|XP_002897837.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0009058,"XP_002897837.1,EEY64637.1"
Stramenopiles-Blastocystis_hominis_tbBHL00002962_1,198,229.565,1.31E-58,gi|300121242|emb|CBK21623.2|unnamed protein product [Blastocystis hominis] , ,CBK21623.2
Stramenopiles-Aureococcus_anophagefferens_jgi2187,413,353.599,2.41E-95,gi|156365753|ref|XP_001626808.1|predicted protein [Nematostella vectensis] ,
GO:0009058,"XP_001626808.1,EDO34708.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219115097,322,664.84,0,gi|219115097|ref|XP_002178344.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0016433,GO:0006364,GO:0005737,GO:0000179,GO:0000154,GO:0008649","XP_002178344.1,EEC50009.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi188724,334,452.21,4.09E-125,gi|224001108|ref|XP_002290226.1|dimethyladenosine transferase [Thalassiosira pseudonana CCMP1335] ,"
GO:0016433,GO:0008168,GO:0006364,GO:0016740,GO:0000179,GO:0000154,GO:0008649", "XP_002290226.1,EED91978.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224001108,335,689.878,0,gi|224001108|ref|XP_002290226.1|dimethyladenosine transferase [Thalassiosira pseudonana CCMP1335] ,"
GO:0016433,GO:0008168,GO:0006364,GO:0016740,GO:0000179,GO:0000154,GO:0008649", "XP_002290226.1,EED91978.1"
Stramenopiles-Aureococcus_anophagefferens_jgi60268,313,380.563,1.13E-103,gi|301110310|ref|XP_002904235.1|dimethyladenosine transferase [Phytophthora infestans T30-4] ,"
GO:0016433,GO:0006364,GO:0016740,GO:0000179,GO:0000154,GO:0008649", "XP_002904235.1,EEY54413.1"
Stramenopiles-Aureococcus_anophagefferens_jgi35437,192,257.684,4.22E-67,gi|301110310|ref|XP_002904235.1|dimethyladenosine transferase [Phytophthora infestans T30-4] ,"
GO:0016433,GO:0006364,GO:0016740,GO:0000179,GO:0000154,GO:0008649", "XP_002904235.1,EEY54413.1"
Stramenopiles-Phytophthora_ramorum_jgi71899,313,632.098,2.39E-179,gi|301110310|ref|XP_002904235.1|dimethyladenosine transferase [Phytophthora infestans T30-4] ,"
GO:0016433,GO:0006364,GO:0016740,GO:0000179,GO:0000154,GO:0008649", "XP_002904235.1,EEY54413.1"
Stramenopiles-Phytophthora_capsici_jgi38638,233,452.21,1.81E-125,gi|301110310|ref|XP_002904235.1|dimethyladenosine transferase [Phytophthora infestans T30-4] ,"
GO:0016433,GO:0006364,GO:0016740,GO:0000179,GO:0000154,GO:0008649", "XP_002904235.1,EEY54413.1"
Stramenopiles-Phytophthora_sojae_jgi109122,313,634.024,5.74E-180,gi|301110310|ref|XP_002904235.1|dimethyladenosine transferase [Phytophthora infestans T30-4] ,"
GO:0016433,GO:0006364,GO:0016740,GO:0000179,GO:0000154,GO:0008649", "XP_002904235.1,EEY54413.1"
Stramenopiles-Phytophthora_parasitica_esContig94_4,285,491.115,5.25E-137,gi|301110310|ref|XP_002904235.1|dimethyladenosine transferase [Phytophthora infestans T30-4] ,"
GO:0016433,GO:0006364,GO:0016740,GO:0000179,GO:0000154,GO:0008649", "XP_002904235.1,EEY54413.1"
Stramenopiles-
Phytophthora_sojae_jgi137358,477,698.353,0,gi|301109988|ref|XP_002904074.1|Drug/Metabolite Transporter (DMT) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020", "XP_002904074.1,EEY54252.1"
Stramenopiles-
Phytophthora_capsici_jgi94797,488,751.51,0,gi|301109988|ref|XP_002904074.1|Drug/Metabolite Transporter (DMT) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020", "XP_002904074.1,EEY54252.1"
Stramenopiles-
Phytophthora_ramorum_jgi82224,481,731.865,0,gi|301109988|ref|XP_002904074.1|Drug/Metabolite Transporter (DMT) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020", "XP_002904074.1,EEY54252.1"
Stramenopiles-
Phytophthora_capsici_jgi69064,1090,1983.76,0,"gi|301113186|ref|XP_002998363.1|tr

ansmembrane protein, putative [Phytophthora infestans T30-4] ", "
GO:0005509,GO:0016021", "XP_002998363.1,EEY69716.1"
Stramenopiles-
Phytophthora_ramorum_jgi77447,1730,1973.36,0,"gi|301113186|ref|XP_002998363.1|tr
ansmembrane protein, putative [Phytophthora infestans T30-4] ", "
GO:0005509,GO:0016021", "XP_002998363.1,EEY69716.1"
Stramenopiles-
Phytophthora_sojae_jgi139975,1132,1993.01,0,"gi|301113186|ref|XP_002998363.1|tra
nsmembrane protein, putative [Phytophthora infestans T30-4] ", "
GO:0005509,GO:0016021", "XP_002998363.1,EEY69716.1"
Stramenopiles-
Phytophthora_sojae_jgi140001,1109,1808.88,0,gi|301111171|ref|XP_002904665.1|cons
erved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0005509,"XP_002904665.1,EEY54034.1"
Stramenopiles-
Phytophthora_ramorum_jgi77473,1145,1802.33,0,gi|301111171|ref|XP_002904665.1|con
served hypothetical protein [Phytophthora infestans T30-4] ,
GO:0005509,"XP_002904665.1,EEY54034.1"
Stramenopiles-
Phytophthora_sojae_jgi141282,1218,2054.64,0,gi|301113802|ref|XP_002998671.1|cons
erved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0005509,"XP_002998671.1,EEY70024.1"
Stramenopiles-
Phytophthora_ramorum_jgi79519,1241,2032.68,0,gi|301113802|ref|XP_002998671.1|con
served hypothetical protein [Phytophthora infestans T30-4] ,
GO:0005509,"XP_002998671.1,EEY70024.1"
Stramenopiles-
Phytophthora_capsici_jgi10385,1107,1929.45,0,gi|301113802|ref|XP_002998671.1|con
served hypothetical protein [Phytophthora infestans T30-4] ,
GO:0005509,"XP_002998671.1,EEY70024.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219129954,312,640.958,0,gi|219129954|ref
|XP_002185141.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0005488,GO:0016021,GO:0016020,GO:0055085,GO:0005743,GO:0006810,GO:0005215", "X
P_002185141.1,EEC43273.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224007861,311,639.032,0,gi|224007861|ref|XP_
002292890.1|oxoglutarate/malate translocator [Thalassiosira pseudonana CCMP1335]
 , "
GO:0005488,GO:0016021,GO:0016020,GO:0055085,GO:0005743,GO:0006810,GO:0005215", "X
P_002292890.1,EED90086.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi180618,307,447.203,9.55E-
124,gi|219129954|ref|XP_002185141.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , "
GO:0005488,GO:0016021,GO:0016020,GO:0055085,GO:0005743,GO:0006810,GO:0005215", "X
P_002185141.1,EEC43273.1"
Stramenopiles-Aureococcus_anophagefferens_jgi31501,314,347.051,1.64E-
93,gi|299115887|emb|CBN75896.1|oxoglutarate/malate translocator [Ectocarpus
siliculosus] , "
GO:0005488,GO:0016021,GO:0016020,GO:0055085,GO:0006810", "CBN75896.1"
Stramenopiles-Phytophthora_ramorum_jgi71378,306,597.816,5.06E-
169,"gi|301093843|ref|XP_002997766.1|mitochondrial 2-oxoglutarate/malate carrier
protein, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0016021,GO:0016020,GO:0055085,GO:0005743,GO:0006810", "XP_002997766
.1,EEY67904.1"

Stramenopiles-Phytophthora_brassicae_esContig117_3,244,443.351,9.13E-123,"gi|301093843|ref|XP_002997766.1|mitochondrial 2-oxoglutarate/malate carrier protein, putative [Phytophthora infestans T30-4] ","GO:0005488,GO:0016021,GO:0016020,GO:0055085,GO:0005743,GO:0006810","XP_002997766.1,EEY67904.1"

Stramenopiles-Phytophthora_capsici_jgi95872,306,603.979,6.71E-171,"gi|301093843|ref|XP_002997766.1|mitochondrial 2-oxoglutarate/malate carrier protein, putative [Phytophthora infestans T30-4] ","GO:0005488,GO:0016021,GO:0016020,GO:0055085,GO:0005743,GO:0006810","XP_002997766.1,EEY67904.1"

Stramenopiles-Phytophthora_sojae_jgi108637,307,609.372,1.41E-172,"gi|301093843|ref|XP_002997766.1|mitochondrial 2-oxoglutarate/malate carrier protein, putative [Phytophthora infestans T30-4] ","GO:0005488,GO:0016021,GO:0016020,GO:0055085,GO:0005743,GO:0006810","XP_002997766.1,EEY67904.1"

Stramenopiles-Blastocystis_hominis_tbBHL00000953_2,218,369.007,1.86E-100,gi|300176902|emb|CBK25471.2|unnamed protein product [Blastocystis hominis],"GO:0005488,GO:0016021,GO:0016020,GO:0055085,GO:0005743,GO:0006810,GO:0005215",CBK25471.2

Stramenopiles-Blastocystis_hominis_tbBHL00001260_2,216,370.933,5.47E-101,gi|300120793|emb|CBK21035.2|unnamed protein product [Blastocystis hominis],"GO:0005488,GO:0016021,GO:0016020,GO:0055085,GO:0005743,GO:0006810",CBK21035.2

Stramenopiles-Aureococcus_anophagefferens_jgi66601,895,130.568,1.01E-27,gi|291238785|ref|XP_002739306.1|PREDICTED: hypothetical protein [Saccoglossus kowalevskii],,XP_002739306.1

Stramenopiles-Phytophthora_ramorum_jgi76758,2206,851.662,0,gi|301100916|ref|XP_002899547.1|conserved hypothetical protein [Phytophthora infestans T30-4],,"XP_002899547.1,EEY61907.1"

Stramenopiles-Phytophthora_sojae_jgi156107,1866,925.235,0,gi|301100916|ref|XP_002899547.1|conserved hypothetical protein [Phytophthora infestans T30-4],,"XP_002899547.1,EEY61907.1"

Stramenopiles-Phytophthora_ramorum_jgi85957,216,381.719,2.47E-104,"gi|301110612|ref|XP_002904386.1|vacuolar protein sorting-associated protein, putative [Phytophthora infestans T30-4] ","GO:0008104,GO:0005515","XP_002904386.1,EEY54564.1"

Stramenopiles-Phytophthora_sojae_jgi136943,3858,2766.1,0,"gi|301110612|ref|XP_002904386.1|vacuolar protein sorting-associated protein, putative [Phytophthora infestans T30-4] ","GO:0008104,GO:0005515","XP_002904386.1,EEY54564.1"

Stramenopiles-Phytophthora_capsici_jgi25279,215,380.178,7.86E-104,"gi|301110612|ref|XP_002904386.1|vacuolar protein sorting-associated protein, putative [Phytophthora infestans T30-4] ","GO:0008104,GO:0005515","XP_002904386.1,EEY54564.1"

Stramenopiles-Phytophthora_ramorum_jgi95794,562,874.389,0,gi|301107866|ref|XP_002903015.1|conserved hypothetical protein [Phytophthora infestans T30-4],,"XP_002903015.1,EEY56185.1"

Stramenopiles-Phytophthora_sojae_jgi156418,1341,1185.24,0,gi|301098165|ref|XP_002898176.1|conserved hypothetical protein [Phytophthora infestans T30-4],,"XP_002898176.1,EEY63589.1"

Stramenopiles-Phytophthora_capsici_jgi3218,489,622.083,4.81E-176,gi|301098165|ref|XP_002898176.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002898176.1,EEY63589.1"

Stramenopiles-Phytophthora_ramorum_jgi74131,509,598.971,4.11E-169,gi|301098165|ref|XP_002898176.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002898176.1,EEY63589.1"

Stramenopiles-Aureococcus_anophagefferens_jgi64837,302,112.849,4.04E-23,gi|38683706|gb|AAR26882.1|FirrV-1-B7 [Feldmannia irregularis virus a],,AAR26882.1

Stramenopiles-Phytophthora_capsici_jgi101937,546,775.007,0,gi|301095294|ref|XP_002896748.1|Ca2:Cation Antiporter (CaCA) Family [Phytophthora infestans T30-4] ,,"GO:0016021,GO:0016020,GO:0055085",,"XP_002896748.1,EEY66861.1"

Stramenopiles-Phytophthora_sojae_jgi128640,558,778.089,0,gi|301095294|ref|XP_002896748.1|Ca2:Cation Antiporter (CaCA) Family [Phytophthora infestans T30-4] ,,"GO:0016021,GO:0016020,GO:0055085",,"XP_002896748.1,EEY66861.1"

Stramenopiles-Phytophthora_ramorum_jgi81519,562,765.763,0,gi|301095294|ref|XP_002896748.1|Ca2:Cation Antiporter (CaCA) Family [Phytophthora infestans T30-4] ,,"GO:0016021,GO:0016020,GO:0055085",,"XP_002896748.1,EEY66861.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224001622,632,1311.59,0,gi|224001622|ref|XP_002290483.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,,"GO:0016021,GO:0016020,GO:0055085",,"XP_002290483.1,EED92235.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219114274,651,1342.02,0,gi|219114274|ref|XP_002176308.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"GO:0016021,GO:0016020,GO:0055085",,"XP_002176308.1,EEC42700.1"

Stramenopiles-Aureococcus_anophagefferens_jgi30006,198,191.045,5.44E-47,gi|312374778|gb|EFR22262.1|hypothetical protein AND_15528 [Anopheles darlingi],,EFR22262.1

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015509,627,1287.71,0,gi|224015509|ref|XP_002297406.1|sodium/potassium/calcium exchange protein [Thalassiosira pseudonana CCMP1335] ,,"GO:0016021,GO:0016020,GO:0055085",,"XP_002297406.1,EED86276.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219110569,517,1046.96,0,gi|219110569|ref|XP_002177036.1|2-phosphoglycolate phosphatase [Phaeodactylum tricornutum CCAP 1055/1] ,,"GO:0005509,GO:0016021,GO:0016020,GO:0055085",,"XP_002177036.1,EEC51499.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi206099,494,505.753,4.50E-141,gi|219110569|ref|XP_002177036.1|2-phosphoglycolate phosphatase [Phaeodactylum tricornutum CCAP 1055/1] ,,"GO:0005509,GO:0016021,GO:0016020,GO:0055085",,"XP_002177036.1,EEC51499.1"

Stramenopiles-Aureococcus_anophagefferens_jgi955,498,309.686,4.86E-82,"gi|157105620|ref|XP_001648950.1|potassium-dependent sodium-calcium exchanger, putative [Aedes aegypti] ",,"GO:0016021,GO:0016020,GO:0055085",,"XP_001648950.1,EAT33209.1"

Stramenopiles-Aureococcus_anophagefferens_jgi63519,365,126.716,3.67E-27,gi|298710240|emb|CBJ26315.1|conserved unknown protein [Ectocarpus siliculosus], GO:0005515,CBJ26315.1

Stramenopiles-Phytophthora_sojae_jgi129929,378,620.542,8.55E-176,gi|301114931|ref|XP_002999235.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005515,"XP_002999235.1,EEY69381.1"

Stramenopiles-Phytophthora_ramorum_jgi73114,367,629.017,2.54E-178,gi|301114931|ref|XP_002999235.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005515,"XP_002999235.1,EEY69381.1"

Stramenopiles-Phytophthora_capsici_jgi116114,316,512.686,2.06E-143,gi|301114931|ref|XP_002999235.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005515,"XP_002999235.1,EEY69381.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223993367,1224,2543.07,0,gi|223993367|ref|XP_002286367.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
GO:0046872,GO:0006259,GO:0009055,GO:0008270,GO:0005515,GO:0004518,GO:0005622,GO:0003677", "XP_002286367.1,EED96008.1"

Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219128584,1813,3730.26,0,gi|219128584|ref|XP_002184489.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,
GO:0005488,"XP_002184489.1,EEC43888.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224012930,1994,4108.91,0,gi|224012930|ref|XP_002295117.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
GO:0005488,"XP_002295117.1,EED87421.1"

Stramenopiles-
Phytophthora_ramorum_jgi84478,1752,2897.46,0,gi|301109096|ref|XP_002903629.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0005488,"XP_002903629.1,EEY55405.1"

Stramenopiles-
Phytophthora_sojae_jgi141204,1751,2933.67,0,gi|301109096|ref|XP_002903629.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0005488,"XP_002903629.1,EEY55405.1"

Stramenopiles-
Phytophthora_capsici_jgi112252,1682,2765.72,0,gi|301109096|ref|XP_002903629.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0005488,"XP_002903629.1,EEY55405.1"

Stramenopiles-
Phytophthora_sojae_jgi137085,1305,2364.73,0,gi|301101758|ref|XP_002899967.1|myosin-like protein [Phytophthora infestans T30-4] ,
GO:0005524,GO:0000166,GO:0016459,GO:0003774", "XP_002899967.1,EEY60594.1"

Stramenopiles-
Phytophthora_capsici_jgi35759,1307,2405.94,0,gi|301101758|ref|XP_002899967.1|myosin-like protein [Phytophthora infestans T30-4] ,
GO:0005524,GO:0000166,GO:0016459,GO:0003774", "XP_002899967.1,EEY60594.1"

Stramenopiles-
Phytophthora_ramorum_jgi83913,1294,2319.27,0,gi|301101758|ref|XP_002899967.1|myosin-like protein [Phytophthora infestans T30-4] ,
GO:0005524,GO:0000166,GO:0016459,GO:0003774", "XP_002899967.1,EEY60594.1"

Stramenopiles-
Phytophthora_capsici_jgi104104,614,1152.89,0,gi|301120532|ref|XP_002907993.1|myosin-like protein [Phytophthora infestans T30-4] ,
GO:0035091,GO:0005524,GO:0000166,GO:0007154,GO:0016459,GO:0005515,GO:0003774", "XP_002907993.1,EEY61076.1"

Stramenopiles-
Phytophthora_sojae_jgi108186,778,1485.32,0,gi|301121048|ref|XP_002908251.1|myosin-like protein [Phytophthora infestans T30-4] ,
GO:0005524,GO:0000166,GO:0016459,GO:0005515,GO:0003774", "XP_002908251.1,EEY61334.1"

Stramenopiles-
Phytophthora_ramorum_jgi94417,1935,2356.25,0,gi|301117270|ref|XP_002906363.1|myo

sin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0016459,GO:0003774", "XP_002906363.1,EEY65764.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223998562,828,1724.14,0,gi|223998562|ref|XP_002288954.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005524,GO:0000166,GO:0016459,GO:0003774", "XP_002288954.1,EED94390.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223998754,741,1536.93,0,gi|223998754|ref|XP_002289050.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005524,GO:0000166,GO:0016459,GO:0003774", "XP_002289050.1,EED94486.1"
Stramenopiles-Phytophthora_sojae_jgi143662,2404,59.6918,5.44E-06,gi|145351776|ref|XP_001420239.1|predicted protein [Ostreococcus lucimarinus CCE9901] , "XP_001420239.1,ABO98532.1"
Stramenopiles-Phytophthora_ramorum_jgi82553,2143,166.007,5.13E-38,"gi|294899268|ref|XP_002776563.1|glutamic acid-rich protein precursor, putative [Perkinsus marinus ATCC 50983] ",
GO:0005515, "XP_002776563.1,EER08379.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223999695,1151,2377.44,0,gi|223999695|ref|XP_002289520.1|ABC transporter [Thalassiosira pseudonana CCMP1335] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002289520.1,EED93057.1"
Stramenopiles-
Phytophthora_ramorum_jgi71110,569,1106.28,0,"gi|301118669|ref|XP_002907062.1|electron transfer flavoprotein-ubiquinone oxidoreductase, putative [Phytophthora infestans T30-4] ", "GO:0055114,GO:0004174", "XP_002907062.1,EEY63626.1"
Stramenopiles-
Phytophthora_sojae_jgi125082,565,1093.95,0,"gi|301118669|ref|XP_002907062.1|electron transfer flavoprotein-ubiquinone oxidoreductase, putative [Phytophthora infestans T30-4] ", "GO:0055114,GO:0004174", "XP_002907062.1,EEY63626.1"
Stramenopiles-
Phytophthora_capsici_jgi123360,573,1104.74,0,"gi|301118669|ref|XP_002907062.1|electron transfer flavoprotein-ubiquinone oxidoreductase, putative [Phytophthora infestans T30-4] ", "GO:0055114,GO:0004174", "XP_002907062.1,EEY63626.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi38810,557,655.21,0,gi|298712252|emb|CBJ26703.1|MG C81928 protein [Ectocarpus siliculosus],"
GO:0055114,GO:0016491,GO:0004174", "CBJ26703.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi71690,593,664.84,0,gi|298712252|emb|CBJ26703.1|MG C81928 protein [Ectocarpus siliculosus],"
GO:0055114,GO:0016491,GO:0004174", "CBJ26703.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi241815,397,213.001,5.47E-53,gi|219114789|ref|XP_002178190.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , "GO:0016051,GO:0016021,GO:0008146", "XP_002178190.1,EEC49855.1"
Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219114789,482,1013.45,0,gi|219114789|ref|XP_002178190.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0016051,GO:0016021,GO:0008146", "XP_002178190.1,EEC49855.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi208801,416,215.698,7.93E-54,gi|219114789|ref|XP_002178190.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , "GO:0016051,GO:0016021,GO:0008146", "XP_002178190.1,EEC49855.1"
Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219124118,324,682.559,0,gi|219124118|ref

|XP_002182358.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0016051,GO:0016021,GO:0008146", "XP_002182358.1,EEC46259.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi270430,369,228.794,6.92E-
58,gi|219124116|ref|XP_002182357.1|predicted protein [Phaeodactylum tricorutum
CCAP 1055/1] , " GO:0016051,GO:0016021,GO:0008146", "XP_002182357.1,EEC46258.1"
Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219124116,396,831.247,0,gi|219124116|ref
|XP_002182357.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0016051,GO:0016021,GO:0008146", "XP_002182357.1,EEC46258.1"
Stramenopiles-
Phytophthora_parasitica_esContig1189_3,839,915.605,0,gi|301090549|ref|XP_0028954
85.1|ATP-binding Cassette (ABC) superfamily [Phytophthora infestans T30-4] , "
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002895485.1,EEY56287.1"
Stramenopiles-
Phytophthora_sojae_jgi128576,1885,2941.37,0,gi|301091448|ref|XP_002895909.1|ATP-
binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] , "
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002895909.1,EEY54149.1"
Stramenopiles-
Phytophthora_sojae_jgi128572,1952,3091.98,0,gi|301091448|ref|XP_002895909.1|ATP-
binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] , "
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002895909.1,EEY54149.1"
Stramenopiles-
Phytophthora_ramorum_jgi82977,1636,2754.55,0,gi|301091448|ref|XP_002895909.1|ATP
-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] , "
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002895909.1,EEY54149.1"
Stramenopiles-
Phytophthora_sojae_jgi128568,1950,3450.6,0,gi|301091448|ref|XP_002895909.1|ATP-
binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] , "
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002895909.1,EEY54149.1"
Stramenopiles-
Phytophthora_ramorum_jgi76582,1951,3449.83,0,gi|301103213|ref|XP_002900693.1|ATP
-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] , "
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002900693.1,EEY60008.1"
Stramenopiles-
Phytophthora_ramorum_jgi82974,1406,2236.84,0,gi|301091448|ref|XP_002895909.1|ATP
-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] , "
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002895909.1,EEY54149.1"
Stramenopiles-
Phytophthora_capsici_jgi121856,1931,2958.32,0,gi|301091448|ref|XP_002895909.1|AT
P-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] , "
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002895909.1,EEY54149.1"
Stramenopiles-
Phytophthora_capsici_jgi121858,1907,2939.83,0,gi|301091448|ref|XP_002895909.1|AT
P-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] , "
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002895909.1,EEY54149.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi186926,499,389.037,6.12E-
106,gi|219122046|ref|XP_002181365.1|predicted protein [Phaeodactylum tricorutum
CCAP 1055/1] , "XP_002181365.1,EEC47288.1"
Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219122046,434,896.73,0,gi|219122046|ref|
XP_002181365.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1]
 , "XP_002181365.1,EEC47288.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224002805,999,2087.38,0,gi|224002805|ref|XP_
002291074.1|DNA polymerase [Thalassiosira pseudonana CCMP1335] , "

GO:0006260,GO:0006139,GO:0003676,GO:0016779,GO:0016740,GO:0003887,GO:0000166,GO:0003677", "XP_002291074.1,EED91181.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219121567,1087,2257.64,0,gi|219121567|ref|XP_002181135.1|DNA polymerase delta [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0006260,GO:0006139,GO:0003676,GO:0016779,GO:0016740,GO:0003887,GO:0000166,GO:0003677", "XP_002181135.1,EEC47058.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi135771,996,1240.33,0,gi|224015515|ref|XP_002297409.1|hypothetical protein THAPSDRAFT_bd439 [Thalassiosira pseudonana CCMP1335] ,"
GO:0016740,GO:0001882,GO:0003677,GO:0005634,GO:0006260,GO:0003676,GO:0000166,GO:0003887,GO:0016779,GO:0006139", "XP_002297409.1,EED86279.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224015515,1141,2373.59,0,gi|224015515|ref|XP_002297409.1|hypothetical protein THAPSDRAFT_bd439 [Thalassiosira pseudonana CCMP1335] ,"
GO:0016740,GO:0001882,GO:0003677,GO:0005634,GO:0006260,GO:0003676,GO:0000166,GO:0003887,GO:0016779,GO:0006139", "XP_002297409.1,EED86279.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219114300,1147,2386.68,0,gi|219114300|ref|XP_002176321.1|catalytic subunit p180 [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0016740,GO:0001882,GO:0003677,GO:0005634,GO:0006260,GO:0003676,GO:0000166,GO:0003887,GO:0016779,GO:0006139", "XP_002176321.1,EEC42713.1"

Stramenopiles-

Aureococcus_anophagefferens_jgi30667,1118,921.383,0,gi|224015515|ref|XP_002297409.1|hypothetical protein THAPSDRAFT_bd439 [Thalassiosira pseudonana CCMP1335] ,"
GO:0016740,GO:0001882,GO:0003677,GO:0005634,GO:0006260,GO:0003676,GO:0000166,GO:0003887,GO:0016779,GO:0006139", "XP_002297409.1,EED86279.1"

Stramenopiles-Blastocystis_hominis_tbBHL00001784_3,254,424.861,4.14E-117,gi|300121650|emb|CBK22168.2|unnamed protein product [Blastocystis hominis],"
GO:0005488,GO:0004512,GO:0008654,GO:0008152,GO:0003824,GO:0006021", "CBK22168.2"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219116747,530,1103.58,0,gi|219116747|ref|XP_002179168.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005488,GO:0004512,GO:0008654,GO:0008152,GO:0003824,GO:0006021", "XP_002179168.1,EEC48991.1"

Stramenopiles-

Phytophthora_parasitica_esContig1425_2,561,1062.75,0,"gi|301121186|ref|XP_002908320.1|inositol-3-phosphate synthase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0004512,GO:0008654,GO:0008152,GO:0003824,GO:0006021", "XP_002908320.1,EEY61403.1"

Stramenopiles-

Phytophthora_sojae_jgi108192,518,1036.17,0,"gi|301121186|ref|XP_002908320.1|inositol-3-phosphate synthase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0004512,GO:0008654,GO:0008152,GO:0003824,GO:0006021", "XP_002908320.1,EEY61403.1"

Stramenopiles-

Phytophthora_ramorum_jgi71157,518,1024.23,0,"gi|301121186|ref|XP_002908320.1|inositol-3-phosphate synthase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0004512,GO:0008654,GO:0008152,GO:0003824,GO:0006021", "XP_002908320.1,EEY61403.1"

Stramenopiles-

Phytophthora_capsici_jgi83448,587,1043.88,0,"gi|301121186|ref|XP_002908320.1|inositol-3-phosphate synthase, putative [Phytophthora infestans T30-4] ", "

GO:0005488,GO:0004512,GO:0008654,GO:0008152,GO:0003824,GO:0006021","XP_002908320.1,EEY61403.1"
Stramenopiles-Phytophthora_brassicae_esContig670_2,265,437.187,8.91E-121,"gi|301121186|ref|XP_002908320.1|inositol-3-phosphate synthase, putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0004512,GO:0008654,GO:0008152,GO:0003824,GO:0006021","XP_002908320.1,EEY61403.1"
Stramenopiles-Phytophthora_capsici_jgi71065,427,673.7,0,gi|301119363|ref|XP_002907409.1|conserved hypothetical protein [Phytophthora infestans T30-4] ", "
GO:0003676,GO:0008270","XP_002907409.1,EEY63973.1"
Stramenopiles-Phytophthora_ramorum_jgi77605,440,648.277,0,gi|301119363|ref|XP_002907409.1|conserved hypothetical protein [Phytophthora infestans T30-4] ", "
GO:0003676,GO:0008270","XP_002907409.1,EEY63973.1"
Stramenopiles-Phytophthora_sojae_jgi128277,438,672.929,0,gi|301119363|ref|XP_002907409.1|conserved hypothetical protein [Phytophthora infestans T30-4] ", "
GO:0003676,GO:0008270","XP_002907409.1,EEY63973.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi197267,416,266.544,3.73E-69,gi|224012230|ref|XP_002294768.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002294768.1,EED88128.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223997740,543,1125.15,0,gi|223997740|ref|XP_002288543.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002288543.1,EED93979.1"
Stramenopiles-Phytophthora_sojae_jgi119319,446,928.702,0,"gi|301110230|ref|XP_002904195.1|alpha-tubulin, putative [Phytophthora infestans T30-4] ", "
GO:0007018,GO:0007017,GO:0051258,GO:0005874,GO:0000166,GO:0005525,GO:0043234,GO:0003924,GO:0005198","XP_002904195.1,EEY54373.1"
Stramenopiles-Phytophthora_brassicae_esContig1698_1,404,712.22,0,"gi|301110230|ref|XP_002904195.1|alpha-tubulin, putative [Phytophthora infestans T30-4] ", "
GO:0007018,GO:0007017,GO:0051258,GO:0005874,GO:0000166,GO:0005525,GO:0043234,GO:0003924,GO:0005198","XP_002904195.1,EEY54373.1"
Stramenopiles-Phytophthora_capsici_jgi7261,355,734.561,0,"gi|301110230|ref|XP_002904195.1|alpha-tubulin, putative [Phytophthora infestans T30-4] ", "
GO:0007018,GO:0007017,GO:0051258,GO:0005874,GO:0000166,GO:0005525,GO:0043234,GO:0003924,GO:0005198","XP_002904195.1,EEY54373.1"
Stramenopiles-Phytophthora_capsici_jgi33835,355,677.167,0,"gi|301110230|ref|XP_002904195.1|alpha-tubulin, putative [Phytophthora infestans T30-4] ", "
GO:0007018,GO:0007017,GO:0051258,GO:0005874,GO:0000166,GO:0005525,GO:0043234,GO:0003924,GO:0005198","XP_002904195.1,EEY54373.1"
Stramenopiles-Phytophthora_ramorum_jgi51154,446,930.628,0,"gi|301110230|ref|XP_002904195.1|alpha-tubulin, putative [Phytophthora infestans T30-4] ", "
GO:0007018,GO:0007017,GO:0051258,GO:0005874,GO:0000166,GO:0005525,GO:0043234,GO:0003924,GO:0005198","XP_002904195.1,EEY54373.1"
Stramenopiles-Phytophthora_ramorum_jgi71894,454,943.725,0,"gi|301110230|ref|XP_002904195.1|alpha-tubulin, putative [Phytophthora infestans T30-4] ", "

GO:0007018,GO:0007017,GO:0051258,GO:0005874,GO:0000166,GO:0005525,GO:0043234,GO:0003924,GO:0005198", "XP_002904195.1,EEY54373.1"
Stramenopiles-Phytophthora_sojae_jgi138185,252,506.908,7.12E-142,"gi|301110150|ref|XP_002904155.1|alpha-tubulin, putative [Phytophthora infestans T30-4] ", "
GO:0007018,GO:0007017,GO:0051258,GO:0005874,GO:0000166,GO:0005525,GO:0043234,GO:0003924,GO:0005198", "XP_002904155.1,EEY54333.1"
Stramenopiles-Sargassum_binderi_esgi120455164_6,285,496.123,1.67E-138,gi|298715658|emb|CBJ28184.1|alpha tubulin [Ectocarpus siliculosus], "
GO:0007018,GO:0007017,GO:0051258,GO:0005874,GO:0000166,GO:0005525,GO:0043234,GO:0003924,GO:0005198", "CBJ28184.1
Stramenopiles-Sargassum_binderi_esContig89_1,514,951.429,0,gi|299472972|emb|CBN77373.1|alpha tubulin [Ectocarpus siliculosus] , "
GO:0007018,GO:0007017,GO:0051258,GO:0005874,GO:0000166,GO:0005525,GO:0043234,GO:0003924,GO:0005198", "CBN77373.1,CBN77378.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224006554,452,945.266,0,gi|224006554|ref|XP_002292237.1|tubulin alpha [Thalassiosira pseudonana CCMP1335] , "
GO:0007018,GO:0007017,GO:0051258,GO:0005874,GO:0000166,GO:0005525,GO:0043234,GO:0003924,GO:0005198", "XP_002292237.1,EED90212.1"
Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219120255,1317,2713.33,0,gi|219120255|ref|XP_002180870.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002180870.1,EEC47522.1"
Stramenopiles-Phytophthora_ramorum_jgi79384,4997,9012.89,0,gi|301097330|ref|XP_002897760.1|dynein heavy chain [Phytophthora infestans T30-4] , "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "XP_002897760.1,EEY64833.1"
Stramenopiles-Phytophthora_sojae_jgi129649,4827,6767.94,0,gi|301097330|ref|XP_002897760.1|dynein heavy chain [Phytophthora infestans T30-4] , "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "XP_002897760.1,EEY64833.1"
Stramenopiles-Phytophthora_capsici_jgi37548,4881,8870.75,0,gi|301097330|ref|XP_002897760.1|dynein heavy chain [Phytophthora infestans T30-4] , "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "XP_002897760.1,EEY64833.1"
Stramenopiles-Aureococcus_anophagefferens_jgi70918,4666,4634.71,0,gi|301102724|ref|XP_002900449.1|sporangia induced dynein heavy chain [Phytophthora infestans T30-4] , "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "XP_002900449.1,EEY60242.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223999601,4410,9169.66,0,gi|223999601|ref|XP_002289473.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "XP_002289473.1,EED93010.1"
Stramenopiles-Aureococcus_anophagefferens_jgi62356,5664,5760.65,0,gi|298711487|emb|CBJ26575.1|dynein heavy chain [Ectocarpus siliculosus], "

GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018",CB
J26575.1
Stramenopiles-Phytophthora_sojae_jgi142495,313,127.487,2.08E-
27,gi|301102724|ref|XP_002900449.1|sporangia induced dynein heavy chain
[Phytophthora infestans T30-4] ,"
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "X
P_002900449.1,EEY60242.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi229943,373,325.865,4.63E-
87,gi|224012114|ref|XP_002294710.1|predicted protein [Thalassiosira pseudonana
CCMP1335] ,,"XP_002294710.1,EED88070.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224012114,339,698.738,0,gi|224012114|ref|XP_
002294710.1|predicted protein [Thalassiosira pseudonana CCMP1335]
 ,,"XP_002294710.1,EED88070.1"
Stramenopiles-Aureococcus_anophagefferens_jgi62479,345,148.288,1.14E-
33,gi|308804207|ref|XP_003079416.1|unnamed protein product [Ostreococcus tauri]
 ,,"XP_003079416.1,CAL54074.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219130807,432,899.427,0,gi|219130807|ref
|XP_002185547.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]
 ,,"XP_002185547.1,EEC42912.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi235699,581,166.007,1.18E-
38,gi|224014600|ref|XP_002296962.1|predicted protein [Thalassiosira pseudonana
CCMP1335] ,,"XP_002296962.1,EED86690.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224014600,596,1238.02,0,gi|224014600|ref|XP_
002296962.1|predicted protein [Thalassiosira pseudonana CCMP1335]
 ,,"XP_002296962.1,EED86690.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219126087,304,628.632,2.73E-
178,gi|219126087|ref|XP_002183296.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] ,,"XP_002183296.1,EEC44996.1"
Stramenopiles-
Phytophthora_ramorum_jgi75442,466,863.988,0,"gi|301115406|ref|XP_002905432.1|arg
inine biosynthesis bifunctional protein argJ, putative [Phytophthora infestans
T30-4] ", "
GO:0005739,GO:0004358,GO:0016740,GO:0008415,GO:0005759,GO:0003824,GO:0008652,GO:
0006526", "XP_002905432.1,DON1U4.1,EEY68273.1"
Stramenopiles-
Phytophthora_capsici_jgi99397,466,887.1,0,"gi|301115406|ref|XP_002905432.1|argin
ine biosynthesis bifunctional protein argJ, putative [Phytophthora infestans
T30-4] ", "
GO:0005739,GO:0004358,GO:0016740,GO:0008415,GO:0005759,GO:0003824,GO:0008652,GO:
0006526", "XP_002905432.1,DON1U4.1,EEY68273.1"
Stramenopiles-Aureococcus_anophagefferens_jgi27083,326,198.364,8.23E-
49,gi|298709852|emb|CBJ26192.1|similar to sideroflexin 5 [Ectocarpus
siliculosus] , " GO:0008324,GO:0016020,GO:0055085,GO:0006812", "CBJ26192.1
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224002935,334,693.345,0,gi|224002935|ref|XP_
002291139.1|sideroflexin 5 [Thalassiosira pseudonana CCMP1335] , "
GO:0008324,GO:0016020,GO:0055085,GO:0006812", "XP_002291139.1,EED91246.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219120671,325,667.922,0,gi|219120671|ref
|XP_002181069.1|iron carrier [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0008324,GO:0016020,GO:0055085,GO:0006812", "XP_002181069.1,EEC47721.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi226433,348,441.425,7.29E-122,gi|219120671|ref|XP_002181069.1|iron carrier [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0008324,GO:0016020,GO:0055085,GO:0006812","XP_002181069.1,EEC47721.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi140510,367,258.84,7.44E-67,"gi|294881894|ref|XP_002769525.1|Sideroflexin-5, putative [Perkinsus marinus ATCC 50983] ,"
GO:0008324,GO:0016020,GO:0055085,GO:0006812","XP_002769525.1,EER02243.1"
Stramenopiles-Phytophthora_capsici_jgi119189,301,550.436,8.62E-155,gi|301122845|ref|XP_002909149.1|Mitochondrial Tricarboxylate Carrier (MTC) Family [Phytophthora infestans T30-4] ,"
GO:0008324,GO:0016020,GO:0055085,GO:0006812","XP_002909149.1,EEY57963.1"
Stramenopiles-Phytophthora_capsici_jgi36205,210,420.624,4.50E-116,gi|301122845|ref|XP_002909149.1|Mitochondrial Tricarboxylate Carrier (MTC) Family [Phytophthora infestans T30-4] ,"
GO:0008324,GO:0016020,GO:0055085,GO:0006812","XP_002909149.1,EEY57963.1"
Stramenopiles-Phytophthora_sojae_jgi142591,323,573.933,7.39E-162,gi|301122845|ref|XP_002909149.1|Mitochondrial Tricarboxylate Carrier (MTC) Family [Phytophthora infestans T30-4] ,"
GO:0008324,GO:0016020,GO:0055085,GO:0006812","XP_002909149.1,EEY57963.1"
Stramenopiles-Blastocystis_hominis_tbBHL00002097_1,177,310.071,5.53E-83,gi|300123880|emb|CBK25151.2|unnamed protein product [Blastocystis hominis],"
GO:0008324,GO:0016020,GO:0055085,GO:0006812",CBK25151.2
Stramenopiles-Blastocystis_hominis_tbBHL00001846_5,112,189.889,6.67E-47,gi|300175531|emb|CBK20842.2|unnamed protein product [Blastocystis hominis],"
GO:0003676,GO:0008270,GO:0005622",CBK20842.2
Stramenopiles-Blastocystis_hominis_tbBHL00000526_3,139,158.303,2.72E-37,gi|300120166|emb|CBK19720.2|unnamed protein product [Blastocystis hominis],"
GO:0003676,GO:0008270,GO:0005622",CBK19720.2
Stramenopiles-Blastocystis_hominis_tbBHL00001039_3,191,139.043,2.50E-31,gi|300122251|emb|CBK22824.2|unnamed protein product [Blastocystis hominis],"
GO:0003676,GO:0008270,GO:0005622",CBK22824.2
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224008280,374,766.148,0,gi|224008280|ref|XP_002293099.1|hypothetical protein THAPSDRAFT_263946 [Thalassiosira pseudonana CCMP1335] ,"
GO:0016301,GO:0016740,GO:0003824,GO:0016772","XP_002293099.1,EED89560.1"
Stramenopiles-Aureococcus_anophagefferens_jgi19213,409,396.741,2.64E-108,gi|298709435|emb|CBJ31341.1|conserved unknown protein [Ectocarpus siliculosus], GO:0005488,CBJ31341.1
Stramenopiles-Aureococcus_anophagefferens_jgi63286,2893,551.977,3.87E-154,gi|299137414|ref|ZP_07030596.1|protein of unknown function DUF323 [Acidobacterium sp. MP5ACTX8] , GO:0005488,"ZP_07030596.1,EFI56975.1"
Stramenopiles-
Phytophthora_sojae_jgi118482,453,851.277,0,"gi|301121458|ref|XP_002908456.1|mannosyl-oligosaccharide alpha-1,2-mannosidase, putative [Phytophthora infestans T30-4] ", " GO:0005509,GO:0016020,GO:0004571","XP_002908456.1,EEY61539.1"
Stramenopiles-
Phytophthora_capsici_jgi70245,457,900.197,0,"gi|301121458|ref|XP_002908456.1|mannosyl-oligosaccharide alpha-1,2-mannosidase, putative [Phytophthora infestans T30-4] ", " GO:0005509,GO:0016020,GO:0004571","XP_002908456.1,EEY61539.1"
Stramenopiles-
Phytophthora_ramorum_jgi50011,455,886.715,0,"gi|301121458|ref|XP_002908456.1|mannosyl-oligosaccharide alpha-1,2-mannosidase, putative [Phytophthora infestans T30-4] ", " GO:0005509,GO:0016020,GO:0004571","XP_002908456.1,EEY61539.1"

Stramenopiles-

Phytophthora_sojae_jgi117121,449,831.632,0,"gi|301104020|ref|XP_002901095.1|mannosyl-oligosaccharide alpha-1,2-mannosidase, putative [Phytophthora infestans T30-4] "," GO:0005509,GO:0016020,GO:0004571","XP_002901095.1,EEY59081.1"

Stramenopiles-

Phytophthora_capsici_jgi122394,449,835.099,0,"gi|301104020|ref|XP_002901095.1|mannosyl-oligosaccharide alpha-1,2-mannosidase, putative [Phytophthora infestans T30-4] "," GO:0005509,GO:0016020,GO:0004571","XP_002901095.1,EEY59081.1"

Stramenopiles-

Phytophthora_ramorum_jgi53914,452,847.04,0,"gi|301104020|ref|XP_002901095.1|mannosyl-oligosaccharide alpha-1,2-mannosidase, putative [Phytophthora infestans T30-4] "," GO:0005509,GO:0016020,GO:0004571","XP_002901095.1,EEY59081.1"

Stramenopiles-Aureococcus_anophagefferens_jgi16190,102,119.398,1.31E-25,gi|170085899|ref|XP_001874173.1|glycoside hydrolase family 47 protein [Laccaria bicolor S238N-H82] ,"

GO:0005509,GO:0016787,GO:0016020,GO:0004571","XP_001874173.1,EDR15965.1"

Stramenopiles-Phytophthora_capsici_jgi36604,905,392.889,8.71E-

107,gi|301099853|ref|XP_002899017.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002899017.1,EEY62381.1"

Stramenopiles-Phytophthora_sojae_jgi131264,915,357.836,3.17E-

96,gi|301099853|ref|XP_002899017.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002899017.1,EEY62381.1"

Stramenopiles-Phytophthora_sojae_jgi131261,562,311.997,1.33E-

82,gi|159485272|ref|XP_001700670.1|ubiquinol:cytochrome c oxidoreductase biogenesis factor [Chlamydomonas reinhardtii] ,"

GO:0005524,GO:0000166,GO:0017111","XP_001700670.1,EDO97908.1"

Stramenopiles-Phytophthora_ramorum_jgi73260,563,314.694,1.76E-

83,gi|159485272|ref|XP_001700670.1|ubiquinol:cytochrome c oxidoreductase biogenesis factor [Chlamydomonas reinhardtii] ,"

GO:0005524,GO:0000166,GO:0017111","XP_001700670.1,EDO97908.1"

Stramenopiles-Phytophthora_ramorum_jgi73263,563,315.849,8.52E-

84,gi|159485272|ref|XP_001700670.1|ubiquinol:cytochrome c oxidoreductase biogenesis factor [Chlamydomonas reinhardtii] ,"

GO:0005524,GO:0000166,GO:0017111","XP_001700670.1,EDO97908.1"

Stramenopiles-Phytophthora_capsici_jgi36603,547,306.605,4.46E-

81,gi|159485272|ref|XP_001700670.1|ubiquinol:cytochrome c oxidoreductase biogenesis factor [Chlamydomonas reinhardtii] ,"

GO:0005524,GO:0000166,GO:0017111","XP_001700670.1,EDO97908.1"

Stramenopiles-Phytophthora_ramorum_jgi73251,564,298.13,1.78E-

78,gi|159485272|ref|XP_001700670.1|ubiquinol:cytochrome c oxidoreductase biogenesis factor [Chlamydomonas reinhardtii] ,"

GO:0005524,GO:0000166,GO:0017111","XP_001700670.1,EDO97908.1"

Stramenopiles-Phytophthora_capsici_jgi36607,554,293.508,4.66E-

77,gi|159485272|ref|XP_001700670.1|ubiquinol:cytochrome c oxidoreductase biogenesis factor [Chlamydomonas reinhardtii] ,"

GO:0005524,GO:0000166,GO:0017111","XP_001700670.1,EDO97908.1"

Stramenopiles-Phytophthora_sojae_jgi137958,565,301.982,1.16E-

79,gi|159485272|ref|XP_001700670.1|ubiquinol:cytochrome c oxidoreductase biogenesis factor [Chlamydomonas reinhardtii] ,"

GO:0005524,GO:0000166,GO:0017111","XP_001700670.1,EDO97908.1"

Stramenopiles-Aureococcus_anophagefferens_jgi67965,759,223.016,1.10E-

55,gi|71420767|ref|XP_811604.1|hypothetical protein [Trypanosoma cruzi strain CL Brener] ," GO:0005524,GO:0000166,GO:0017111","XP_811604.1,EAN89753.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219111769,284,587.03,6.93E-

166,gi|219111769|ref|XP_002177636.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0055114,GO:0016671,GO:0019538", "XP_002177636.1,EEC50450.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224008935,298,616.69,8.34E-175,gi|224008935|ref|XP_002293426.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0055114,GO:0016671,GO:0019538", "XP_002293426.1,EED89162.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi188492,223,280.026,1.30E-73,gi|224008935|ref|XP_002293426.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0055114,GO:0016671,GO:0019538", "XP_002293426.1,EED89162.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219130263,269,556.214,1.20E-156,gi|219130263|ref|XP_002185288.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0055114,GO:0016671,GO:0019538", "XP_002185288.1,EEC43157.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi270824,297,273.092,2.42E-71,gi|219130263|ref|XP_002185288.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0055114,GO:0016671,GO:0019538", "XP_002185288.1,EEC43157.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224005126,759,1566.59,0,gi|224005126|ref|XP_002296214.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0055114,GO:0016671,GO:0019538", "XP_002296214.1,ACI64931.1"
Stramenopiles-Aureococcus_anophagefferens_jgi65690,593,174.096,4.71E-41,gi|313225993|emb|CBY21136.1|unnamed protein product [Oikopleura dioica],,CBY21136.1
Stramenopiles-
Phytophthora_capsici_jgi33555,1077,1748.02,0,gi|301105279|ref|XP_002901723.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0046872,GO:0005524,GO:0008270,GO:0005515", "XP_002901723.1,EEY57113.1"
Stramenopiles-
Phytophthora_sojae_jgi140065,1210,1823.52,0,gi|301105279|ref|XP_002901723.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0046872,GO:0005524,GO:0008270,GO:0005515", "XP_002901723.1,EEY57113.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi67157,4617,986.867,0,gi|302794218|ref|XP_002978873.1|hypothetical protein SELMODRAFT_152901 [Selaginella moellendorffii] , " GO:0046872,GO:0005524,GO:0008270,GO:0005515", "XP_002978873.1,EFJ19830.1"
Stramenopiles-Aureococcus_anophagefferens_jgi68452,765,65.0846,3.62E-08,gi|159489398|ref|XP_001702684.1|predicted protein [Chlamydomonas reinhardtii] , "XP_001702684.1,EDP06463.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi259463,188,357.066,5.07E-97,gi|219126122|ref|XP_002183313.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0005525,GO:0007264,GO:0000166,GO:0015031", "XP_002183313.1,EEC45013.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224001286,201,419.083,1.18E-115,gi|224001286|ref|XP_002290315.1|ypt1-like rab-type small G protein [Thalassiosira pseudonana CCMP1335] , " GO:0005525,GO:0007264,GO:0000166,GO:0015031", "XP_002290315.1,EED92067.1"
Stramenopiles-Sargassum_binderi_esContig14_2,550,409.453,5.86E-112,"gi|298707797|emb|CBJ30228.1|Rab1B, RAB family GTPase [Ectocarpus siliculosus]" , " GO:0005525,GO:0007264,GO:0000166,GO:0015031", "CBJ30228.1"
Stramenopiles-Phytophthora_parasitica_esContig893_2,360,350.903,1.47E-94,gi|301117468|ref|XP_002906462.1|Rab1 family GTPase (PiYpt1) [Phytophthora infestans T30-4] , " GO:0005525,GO:0007264,GO:0000166,GO:0016020,GO:0006810,GO:0005886,GO:0015031", "XP_002906462.1,Q01890.1,AAB40355.1,EEY65863.1"
Stramenopiles-Phytophthora_parasitica_esContig1416_2,228,421.394,3.63E-116,gi|301117468|ref|XP_002906462.1|Rab1 family GTPase (PiYpt1) [Phytophthora

infestans T30-4] ,"
GO:0005525,GO:0007264,GO:0000166,GO:0016020,GO:0006810,GO:0005886,GO:0015031", "X
P_002906462.1,Q01890.1,AAB40355.1,EEY65863.1"
Stramenopiles-Phytophthora_capsici_jgi98059,202,420.624,5.07E-
116,gi|301117468|ref|XP_002906462.1|Rab1 family GTPase (PiYpt1) [Phytophthora
infestans T30-4] ,"
GO:0005525,GO:0007264,GO:0000166,GO:0016020,GO:0006810,GO:0005886,GO:0015031", "X
P_002906462.1,Q01890.1,AAB40355.1,EEY65863.1"
Stramenopiles-Phytophthora_sojae_jgi108764,202,420.624,5.07E-
116,gi|301117468|ref|XP_002906462.1|Rab1 family GTPase (PiYpt1) [Phytophthora
infestans T30-4] ,"
GO:0005525,GO:0007264,GO:0000166,GO:0016020,GO:0006810,GO:0005886,GO:0015031", "X
P_002906462.1,Q01890.1,AAB40355.1,EEY65863.1"
Stramenopiles-Phytophthora_ramorum_jgi71391,202,420.624,5.07E-
116,gi|301117468|ref|XP_002906462.1|Rab1 family GTPase (PiYpt1) [Phytophthora
infestans T30-4] ,"
GO:0005525,GO:0007264,GO:0000166,GO:0016020,GO:0006810,GO:0005886,GO:0015031", "X
P_002906462.1,Q01890.1,AAB40355.1,EEY65863.1"
Stramenopiles-Phytophthora_brassicae_esContig570_1,424,421.394,1.12E-
115,gi|301117468|ref|XP_002906462.1|Rab1 family GTPase (PiYpt1) [Phytophthora
infestans T30-4] ,"
GO:0005525,GO:0007264,GO:0000166,GO:0016020,GO:0006810,GO:0005886,GO:0015031", "X
P_002906462.1,Q01890.1,AAB40355.1,EEY65863.1"
Stramenopiles-Blastocystis_hominis_tbBHL00001506_2,226,410.609,6.42E-
113,gi|300175138|emb|CBK20449.2|unnamed protein product [Blastocystis hominis],"
GO:0005525,GO:0007264,GO:0000166,GO:0015031",CBK20449.2
Stramenopiles-Phytophthora_sojae_jgi135623,1523,573.933,6.28E-
161,gi|56547681|gb|AAV92918.1|pol protein [Phytophthora infestans],"
GO:0000785,GO:0003682,GO:0003677,GO:0005634,GO:0003676,GO:0006333,GO:0003964,GO:
0003723,GO:0015074,GO:0006278",AAV92918.1
Stramenopiles-Phytophthora_sojae_jgi131720,1420,598.201,2.33E-
168,gi|56547681|gb|AAV92918.1|pol protein [Phytophthora infestans],"
GO:0000785,GO:0003682,GO:0003677,GO:0005634,GO:0003676,GO:0006333,GO:0003964,GO:
0003723,GO:0015074,GO:0006278",AAV92918.1
Stramenopiles-Phytophthora_sojae_jgi139928,1447,483.026,1.17E-
133,"gi|77555398|gb|ABA98194.1|retrotransposon protein, putative, Ty3-gypsy
subclass [Oryza sativa Japonica Group]",,ABA98194.1
Stramenopiles-
Phytophthora_ramorum_jgi79115,704,981.474,0,gi|56547681|gb|AAV92918.1|pol
protein [Phytophthora infestans],"
GO:0000785,GO:0003682,GO:0003677,GO:0005634,GO:0003676,GO:0006333,GO:0003964,GO:
0003723,GO:0015074,GO:0006278",AAV92918.1
Stramenopiles-
Phytophthora_ramorum_jgi79617,1241,1063.14,0,gi|56547681|gb|AAV92918.1|pol
protein [Phytophthora infestans],"
GO:0000785,GO:0003682,GO:0003677,GO:0005634,GO:0003676,GO:0006333,GO:0003964,GO:
0003723,GO:0015074,GO:0006278",AAV92918.1
Stramenopiles-
Phytophthora_ramorum_jgi84637,1731,1130.93,0,gi|62147612|emb|CAI72306.1|putative
polyprotein [Phytophthora infestans],"
GO:0003723,GO:0006508,GO:0006278,GO:0004190,GO:0003964",CAI72306.1
Stramenopiles-
Phytophthora_capsici_jgi599,664,1200.65,0,gi|301098081|ref|XP_002898134.1|ATP-
binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"

GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002898134.1,EEY63547.1"
Stramenopiles-Phytophthora parasitica esgi222399594_2,232,426.017,1.62E-117,gi|301098081|ref|XP_002898134.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002898134.1,EEY63547.1"
Stramenopiles-
Phytophthora ramorum_jgi71174,1243,2309.64,0,gi|301098081|ref|XP_002898134.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002898134.1,EEY63547.1"
Stramenopiles-
Phytophthora sojae_jgi109245,1293,2346.62,0,gi|301098081|ref|XP_002898134.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002898134.1,EEY63547.1"
Stramenopiles-
Fragilariopsis cylindrus_jgi188281,1369,1026.16,0,gi|224008366|ref|XP_002293142.1|ABC transporter multi-drug efflux transporter-like protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002293142.1,EED89603.1"
Stramenopiles-Aureococcus anophagefferens_jgi1068,484,271.166,1.86E-70,gi|260836917|ref|XP_002613452.1|hypothetical protein BRAFLDRAFT_84588 [Branchiostoma floridae] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002613452.1,EEN69461.1"
Stramenopiles-
Phaeodactylum tricorutum_CCAP_1055/1_gi219114296,587,1197.19,0,gi|219114296|ref|XP_002176319.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002176319.1,EEC42711.1"
Stramenopiles-
Phytophthora sojae_jgi132363,1281,2212.19,0,gi|301114249|ref|XP_002998894.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002998894.1,EEY69040.1"
Stramenopiles-
Phytophthora sojae_jgi114447,1129,1954.87,0,gi|301114249|ref|XP_002998894.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002998894.1,EEY69040.1"
Stramenopiles-
Phytophthora capsici_jgi503,1225,2126.29,0,gi|301114249|ref|XP_002998894.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002998894.1,EEY69040.1"
Stramenopiles-Aureococcus anophagefferens_jgi62507,426,53.9138,4.73E-05,gi|308808880|ref|XP_003081750.1|unnamed protein product [Ostreococcus tauri] ,"
GO:0008270,GO:0005622", "XP_003081750.1,CAL56275.1"
Stramenopiles-Aureococcus anophagefferens_jgi619,704,551.977,9.47E-155,"gi|102189|pir||A23662myosin I, high molecular weight - Acanthamoeba sp", "A23662myosin I, high molecular weight - Acanthamoeba sp"

Stramenopiles-Aureococcus_anophagefferens_jgi19042,838,547.354,2.64E-153,gi|281201334|gb|EFA75546.1|class VII unconventional myosin [Polysphondylium pallidum PN500],"
GO:0005524,GO:0005488,GO:0005856,GO:0007165,GO:0016459,GO:0003774",EFA75546.1
Stramenopiles-
Fragilariopsis_cylindrus_jgi195126,993,1233.01,0,gi|239925803|gb|ACS35536.1|myosin in 29 [Phaeodactylum tricornutum],"
GO:0005524,GO:0008152,GO:0000166,GO:0003824,GO:0016459,GO:0003774",ACS35536.1
Stramenopiles-
Phytophthora_sojae_jgi155779,1319,1497.26,0,gi|301103374|ref|XP_002900773.1|myosin-like protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0005524,GO:0000166,GO:0008270,GO:0016459,GO:0003774",XP_002900773.1,EEY59580.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi209709,857,853.973,0,gi|219129131|ref|XP_002184750.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005524,GO:0000166,GO:0016459,GO:0003774",XP_002184750.1,EEC43809.1"
Stramenopiles-
Phytophthora_capsici_jgi114970,1409,2661.33,0,gi|301095493|ref|XP_002896847.1|myosin-like protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0005524,GO:0008270,GO:0016459,GO:0003774",XP_002896847.1,EEY66782.1"
Stramenopiles-
Phytophthora_sojae_jgi143645,1411,2597.39,0,gi|301095493|ref|XP_002896847.1|myosin-like protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0005524,GO:0008270,GO:0016459,GO:0003774",XP_002896847.1,EEY66782.1"
Stramenopiles-
Phytophthora_sojae_jgi141887,1383,2617.03,0,gi|301121907|ref|XP_002908680.1|myosin-like protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0005524,GO:0000166,GO:0008270,GO:0016459,GO:0003774",XP_002908680.1,EEY57494.1"
Stramenopiles-
Phytophthora_ramorum_jgi73512,1382,2606.63,0,gi|301121907|ref|XP_002908680.1|myosin-like protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0005524,GO:0000166,GO:0008270,GO:0016459,GO:0003774",XP_002908680.1,EEY57494.1"
Stramenopiles-
Phytophthora_sojae_jgi137533,1314,1979.14,0,"gi|301123145|ref|XP_002909299.1|N-acetylglucosamine-1-phosphotransferase subunits alpha/beta, putative [Phytophthora infestans T30-4] ", "
GO:0030154,GO:0016740,GO:0016020",XP_002909299.1,EEY58113.1"
Stramenopiles-
Phytophthora_ramorum_jgi84134,1344,1040.02,0,"gi|301123145|ref|XP_002909299.1|N-acetylglucosamine-1-phosphotransferase subunits alpha/beta, putative [Phytophthora infestans T30-4] ", "
GO:0030154,GO:0016740,GO:0016020",XP_002909299.1,EEY58113.1"
Stramenopiles-
Phytophthora_capsici_jgi34379,1261,2063.5,0,"gi|301123145|ref|XP_002909299.1|N-acetylglucosamine-1-phosphotransferase subunits alpha/beta, putative [Phytophthora infestans T30-4] ", "
GO:0030154,GO:0016740,GO:0016020",XP_002909299.1,EEY58113.1"
Stramenopiles-
Phytophthora_capsici_jgi117391,806,769.229,0,gi|301116932|ref|XP_002906194.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0016740,GO:0006526,GO:0051287,GO:0003942,GO:0006520,GO:0005737,GO:0016620,GO:0003991,GO:0003824,GO:0008152,GO:0008652,GO:0005488", "XP_002906194.1,EEY65595.1"
Stramenopiles-Phytophthora_capsici_jgi83954,323,234.958,9.30E-60,gi|301116932|ref|XP_002906194.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0016740,GO:0006526,GO:0051287,GO:0003942,GO:0006520,GO:0005737,GO:0016620,GO:0003991,GO:0003824,GO:0008152,GO:0008652,GO:0005488", "XP_002906194.1,EEY65595.1"
Stramenopiles-Phytophthora_sojae_jgi139358,707,1310.43,0,gi|301116932|ref|XP_002906194.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0016740,GO:0006526,GO:0051287,GO:0003942,GO:0006520,GO:0005737,GO:0016620,GO:0003991,GO:0003824,GO:0008152,GO:0008652,GO:0005488", "XP_002906194.1,EEY65595.1"
Stramenopiles-Phytophthora_ramorum_jgi78196,720,1296.18,0,gi|301116932|ref|XP_002906194.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0016740,GO:0006526,GO:0051287,GO:0003942,GO:0006520,GO:0005737,GO:0016620,GO:0003991,GO:0003824,GO:0008152,GO:0008652,GO:0005488", "XP_002906194.1,EEY65595.1"
Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219111533,330,662.914,0,gi|219111533|ref|XP_002177518.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0004349,GO:0005737,GO:0016740,GO:0008652,GO:0006526,GO:0003991,GO:0006561", "XP_002177518.1,EEC51981.1"
Stramenopiles-Phytophthora_capsici_jgi34970,615,648.277,0,gi|190575178|ref|YP_001973023.1|N-acetyl-gamma-glutamyl-phosphate reductase [Stenotrophomonas maltophilia K279a] ,"
GO:0006526,GO:0051287,GO:0003942,GO:0006520,GO:0005737,GO:0055114,GO:0016620,GO:0016491,GO:0003824,GO:0008152,GO:0008652,GO:0005488", "YP_001973023.1,B2FMD7.1,CAQ46732.1"
Stramenopiles-Phytophthora_sojae_jgi139264,538,861.677,0,gi|301096496|ref|XP_002897345.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002897345.1,EEY65281.1"
Stramenopiles-Aureococcus_anophagefferens_jgi64842,436,204.527,1.79E-50,gi|167524719|ref|XP_001746695.1|hypothetical protein [Monosiga brevicollis MX1] , GO:0005509, "XP_001746695.1,EDQ88591.1"
Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219119139,149,309.686,5.86E-83,gi|219119139|ref|XP_002180336.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , GO:0005509, "XP_002180336.1,EEC48527.1"
Stramenopiles-Aureococcus_anophagefferens_jgi27914,150,127.487,4.70E-28,gi|167526844|ref|XP_001747755.1|hypothetical protein [Monosiga brevicollis MX1] , GO:0005509, "XP_001747755.1,EDQ87495.1"
Stramenopiles-Aureococcus_anophagefferens_jgi65953,1145,294.664,4.34E-77,gi|298712152|emb|CBJ33028.1|Hypothetical Protein RRSL_02205 [Ectocarpus siliculosus] , " GO:0016491,GO:0008152", "CBJ33028.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015584,360,742.651,0,gi|224015584|ref|XP_002297443.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874", "XP_002297443.1,EED86260.1"
Stramenopiles-Aureococcus_anophagefferens_jgi1821,419,405.601,6.35E-111,gi|224015584|ref|XP_002297443.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "

GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002297443.1,EED86260.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219126116,377,783.097,0,gi|219126116|ref|XP_002183310.1|kinesin family-like protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002183310.1,EEC45010.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi225115,377,603.208,1.66E-170,gi|219126116|ref|XP_002183310.1|kinesin family-like protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002183310.1,EEC45010.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224004298,375,772.311,0,gi|224004298|ref|XP_002295800.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002295800.1,ACI64517.1"
Stramenopiles-Phytophthora_capsici_jgi93339,623,598.971,5.63E-169,gi|301106422|ref|XP_002902294.1|kinesin-like protein [Phytophthora infestans T30-4] , " GO:0005524,GO:0003777,GO:0007018","XP_002902294.1,EEY56966.1"
Stramenopiles-Phytophthora_ramorum_jgi48862,363,396.356,3.13E-108,gi|301092936|ref|XP_002997318.1|kinesin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002997318.1,EEY68890.1"
Stramenopiles-Aureococcus_anophagefferens_jgi59386,352,339.347,3.95E-91,gi|299116432|emb|CBN74697.1|kinesin motor protein-related [Ectocarpus siliculosus] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874",CBN74697.1
Stramenopiles-Aureococcus_anophagefferens_jgi59470,352,338.961,4.51E-91,gi|299116432|emb|CBN74697.1|kinesin motor protein-related [Ectocarpus siliculosus] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874",CBN74697.1
Stramenopiles-
Phytophthora_capsici_jgi10562,1081,1011.91,0,gi|301123033|ref|XP_002909243.1|kinesin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002909243.1,EEY58057.1"
Stramenopiles-Aureococcus_anophagefferens_jgi2359,367,251.521,1.24E-64,gi|167524284|ref|XP_001746478.1|hypothetical protein [Monosiga brevicollis MX1] , " GO:0008152,GO:0003824,GO:0008484","XP_001746478.1,EDQ88865.1"
Stramenopiles-Aureococcus_anophagefferens_jgi61551,2087,232.646,4.41E-58,gi|241668860|ref|ZP_04756438.1|glycosyl hydrolase family protein [Francisella philomiragia subsp. philomiragia ATCC 25015] , ,ZP_04756438.1
Stramenopiles-Aureococcus_anophagefferens_jgi64682,290,62.3882,6.16E-08,gi|255081488|ref|XP_002507966.1|predicted protein [Micromonas sp. RCC299] , "
GO:0008825,GO:0008610","XP_002507966.1,ACO69224.1"
Stramenopiles-
Phytophthora_sojae_jgi141959,613,768.074,0,gi|301123363|ref|XP_002909408.1|kinesin-like protein [Phytophthora infestans T30-4] , "
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002909408.1,EEY58222.1"
Stramenopiles-
Phytophthora_sojae_jgi129093,908,1657.5,0,gi|301091307|ref|XP_002895841.1|conser

ved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895841.1,EEY54604.1"
Stramenopiles-Phytophthora_ramorum_jgi86730,503,348.206,1.33E-
93,gi|301091307|ref|XP_002895841.1|conserved hypothetical protein [Phytophthora
infestans T30-4] ,, "XP_002895841.1,EEY54604.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224014996,968,2009.57,0,gi|224014996|ref|XP_
002297159.1|signal peptidase [Thalassiosira pseudonana CCMP1335]
,, "XP_002297159.1,EED86484.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219109751,1238,2563.87,0,gi|219109751|re
f|XP_002176629.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]
,, "XP_002176629.1,EEC51092.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi181482,1023,744.577,0,gi|224014996|ref|XP_002297159.
1|signal peptidase [Thalassiosira pseudonana CCMP1335]
,, "XP_002297159.1,EED86484.1"
Stramenopiles-
Phytophthora_ramorum_jgi44351,963,1466.06,0,gi|301106825|ref|XP_002902495.1|cons
erved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002902495.1,EEY56421.1"
Stramenopiles-
Phytophthora_sojae_jgi131857,1120,1344.33,0,gi|301106825|ref|XP_002902495.1|cons
erved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002902495.1,EEY56421.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi269635,426,152.91,7.54E-
35,gi|83944028|ref|ZP_00956485.1|hypothetical protein EE36_10295 [Sulfitobacter
sp. EE-36] ,, "ZP_00956485.1,EAP83155.1"
Stramenopiles-Aureococcus_anophagefferens_jgi72297,835,295.049,2.56E-
77,gi|260821866|ref|XP_002606324.1|hypothetical protein BRAFLDRAFT_67566
[Branchiostoma floridae] ,, "XP_002606324.1,EEN62334.1"
Stramenopiles-Aureococcus_anophagefferens_jgi4382,193,179.874,1.31E-
43,gi|260821866|ref|XP_002606324.1|hypothetical protein BRAFLDRAFT_67566
[Branchiostoma floridae] ,, "XP_002606324.1,EEN62334.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219124569,1007,2089.69,0,gi|219124569|re
f|XP_002182573.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]
,, "XP_002182573.1,EEC45860.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi262424,1031,665.996,0,gi|224008466|ref|XP_002293192.
1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002293192.1,EED89653.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224008466,926,1909.42,0,gi|224008466|ref|XP_
002293192.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002293192.1,EED89653.1"
Stramenopiles-Aureococcus_anophagefferens_jgi62913,1857,238.039,9.53E-
60,gi|300123459|emb|CBK24732.2|unnamed protein product [Blastocystis
hominis] ,, "CBK24732.2"
Stramenopiles-Aureococcus_anophagefferens_jgi64391,1319,141.739,6.39E-
31,gi|294084042|ref|YP_003550800.1|Sterol desaturase [Candidatus
Puniceispirillum marinum IMCC1322] , "
GO:0055114,GO:0016491,GO:0005783,GO:0005506,GO:0006633", "YP_003550800.1,ADE38716
.1"

Stramenopiles-

Phytophthora_sojae_jgi119111,444,669.078,0,"gi|301099961|ref|XP_002899071.1|histone arginine demethylase, putative [Phytophthora infestans T30-4] ", GO:0008168,"XP_002899071.1,EEY62435.1"

Stramenopiles-Phytophthora_ramorum_jgi41695,344,581.637,3.88E-

164,"gi|301099961|ref|XP_002899071.1|histone arginine demethylase, putative [Phytophthora infestans T30-4] ", GO:0008168,"XP_002899071.1,EEY62435.1"

Stramenopiles-

Phytophthora_capsici_jgi35963,440,680.248,0,"gi|301099961|ref|XP_002899071.1|histone arginine demethylase, putative [Phytophthora infestans T30-4] ", GO:0008168,"XP_002899071.1,EEY62435.1"

Stramenopiles-Aureococcus_anophagefferens_jgi3043,290,274.633,8.88E-

72,"gi|298713548|emb|CBJ27076.1|JMJD6 protein [Ectocarpus siliculosus],,CBJ27076.1

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219122056,294,613.609,7.93E-174,"gi|219122056|ref|XP_002181370.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,, "XP_002181370.1,EEC47293.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi271391,423,400.593,1.65E-

109,"gi|219122056|ref|XP_002181370.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,, "XP_002181370.1,EEC47293.1"

Stramenopiles-

Phytophthora_capsici_jgi28471,526,783.867,0,"gi|301110176|ref|XP_002904168.1|histone arginine demethylase, putative [Phytophthora infestans T30-4] ", GO:0008168,"XP_002904168.1,EEY54346.1"

Stramenopiles-

Phytophthora_ramorum_jgi82996,1029,1624.37,0,"gi|301092139|ref|XP_002996930.1|histone arginine demethylase, putative [Phytophthora infestans T30-4] ", GO:0008168,"XP_002996930.1,EEY70308.1"

Stramenopiles-

Phytophthora_sojae_jgi128547,1038,1675.99,0,"gi|301092139|ref|XP_002996930.1|histone arginine demethylase, putative [Phytophthora infestans T30-4] ", GO:0008168,"XP_002996930.1,EEY70308.1"

Stramenopiles-Phytophthora_capsici_jgi20651,294,513.842,8.21E-

144,"gi|301117896|ref|XP_002906676.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002906676.1,EEY66077.1"

Stramenopiles-Phytophthora_sojae_jgi134857,294,511.146,5.78E-

143,"gi|301117896|ref|XP_002906676.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002906676.1,EEY66077.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223998624,142,296.59,5.39E-

79,"gi|223998624|ref|XP_002288985.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,, "XP_002288985.1,EED94421.1"

Stramenopiles-

Phytophthora_ramorum_jgi77069,352,655.21,0,"gi|301112134|ref|XP_002905146.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002905146.1,EEY53528.1"

Stramenopiles-

Phytophthora_sojae_jgi143839,352,649.432,0,"gi|301112134|ref|XP_002905146.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002905146.1,EEY53528.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi170146,482,893.264,0,"gi|219112013|ref|XP_002177758.1|adenosylhomocysteinase [Phaeodactylum tricornutum CCAP 1055/1] ,, "GO:0004013,GO:0005488,GO:0016787,GO:0008152,GO:0003824,GO:0006730", "XP_002177758.1,EEC50572.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219112013,481,993.416,0,gi|219112013|ref|XP_002177758.1|adenosylhomocysteinase [Phaeodactylum tricornutum CCAP 1055/1]

,"
GO:0004013,GO:0005488,GO:0016787,GO:0008152,GO:0003824,GO:0006730","XP_002177758.1,EEC50572.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224003341,481,993.03,0,gi|224002559|ref|XP_002290951.1|hypothetical protein THAPSDRAFT_28496 [Thalassiosira pseudonana CCMP1335] ,"

GO:0004013,GO:0005488,GO:0016787,GO:0008152,GO:0003824,GO:0006730","XP_002290951.1,XP_002291342.1,EED91058.1,EED91449.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224002559,481,993.03,0,gi|224002559|ref|XP_002290951.1|hypothetical protein THAPSDRAFT_28496 [Thalassiosira pseudonana CCMP1335] ,"

GO:0004013,GO:0005488,GO:0016787,GO:0008152,GO:0003824,GO:0006730","XP_002290951.1,XP_002291342.1,EED91058.1,EED91449.1"

Stramenopiles-

Aureococcus_anophagefferens_jgi69644,481,793.882,0,gi|224002559|ref|XP_002290951.1|hypothetical protein THAPSDRAFT_28496 [Thalassiosira pseudonana CCMP1335] ,"

GO:0004013,GO:0005488,GO:0016787,GO:0008152,GO:0003824,GO:0006730","XP_002290951.1,XP_002291342.1,EED91058.1,EED91449.1"

Stramenopiles-

Phytophthora_brassicae_esContig628_2,446,758.829,0,gi|301107277|ref|XP_002902721.1|adenosylhomocysteinase [Phytophthora infestans T30-4] ,"

GO:0004013,GO:0005488,GO:0016787,GO:0008152,GO:0003824,GO:0006730","XP_002902721.1,EEY56647.1"

Stramenopiles-

Phytophthora_ramorum_jgi71346,482,952.97,0,gi|301107277|ref|XP_002902721.1|adenosylhomocysteinase [Phytophthora infestans T30-4] ,"

GO:0004013,GO:0005488,GO:0016787,GO:0008152,GO:0003824,GO:0006730","XP_002902721.1,EEY56647.1"

Stramenopiles-

Phytophthora_capsici_jgi100785,482,976.467,0,gi|301107277|ref|XP_002902721.1|adenosylhomocysteinase [Phytophthora infestans T30-4] ,"

GO:0004013,GO:0005488,GO:0016787,GO:0008152,GO:0003824,GO:0006730","XP_002902721.1,EEY56647.1"

Stramenopiles-

Phytophthora_parasitica_esContig636_2,592,739.184,0,gi|301107277|ref|XP_002902721.1|adenosylhomocysteinase [Phytophthora infestans T30-4] ,"

GO:0004013,GO:0005488,GO:0016787,GO:0008152,GO:0003824,GO:0006730","XP_002902721.1,EEY56647.1"

Stramenopiles-

Phytophthora_sojae_jgi109095,482,965.296,0,gi|301107277|ref|XP_002902721.1|adenosylhomocysteinase [Phytophthora infestans T30-4] ,"

GO:0004013,GO:0005488,GO:0016787,GO:0008152,GO:0003824,GO:0006730","XP_002902721.1,EEY56647.1"

Stramenopiles-

Aureococcus_anophagefferens_jgi72791,2824,2806.55,0,gi|299116617|emb|CBN76243.1|dynein heavy chain dynein heavy chain [Ectocarpus siliculosus] ,"

GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018","CBN76243.1"

Stramenopiles-

Phytophthora_capsici_jgi16,1081,2116.66,0,gi|301101074|ref|XP_002899626.1|dynein

heavy chain [Phytophthora infestans T30-4] ,"
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "X
P_002899626.1,EEY61986.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224015082,393,821.231,0,gi|224015082|ref|XP_
002297202.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0009058,GO:0003824,GO:0030170,GO:0016769", "XP_002297202.1,EED86527.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi205591,391,503.056,2.10E-
140,gi|224015082|ref|XP_002297202.1|predicted protein [Thalassiosira pseudonana
CCMP1335] ,"
GO:0009058,GO:0003824,GO:0030170,GO:0016769", "XP_002297202.1,EED86527.1"
Stramenopiles-
Phytophthora_capsici_jgi84133,7661,2520.73,0,gi|190572215|ref|YP_001970060.1|ind
olepyruvate ferredoxin oxidoreductase [Stenotrophomonas maltophilia K279a] ,"
GO:0055114,GO:0016491,GO:0030976,GO:0008152,GO:0003824,GO:0016903", "YP_001970060
.1,CAQ43745.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219124797,1321,2726.04,0,gi|219124797|re
f|XP_002182682.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0006310,GO:0008026", "XP_002182682
.1,EEC45969.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi180755,1134,965.296,0,gi|219124797|ref|XP_002182682.
1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0006310,GO:0008026", "XP_002182682
.1,EEC45969.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223997592,1287,2662.1,0,gi|223997592|ref|XP_
002288469.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0008026", "XP_002288469.1,EED93905
.1"
Stramenopiles-
Phytophthora_sojae_jgi157121,854,937.176,0,"gi|301119977|ref|XP_002907716.1|DEAD
/DEAH box RNA helicase, putative [Phytophthora infestans T30-4] ", "
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0008026", "XP_002907716.1,EEY64280
.1"
Stramenopiles-
Phytophthora_capsici_jgi10908,856,735.332,0,"gi|301119977|ref|XP_002907716.1|DEA
D/DEAH box RNA helicase, putative [Phytophthora infestans T30-4] ", "
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0008026", "XP_002907716.1,EEY64280
.1"
Stramenopiles-Aureococcus_anophagefferens_jgi7435,126,85.5001,1.89E-
15,gi|224141165|ref|XP_002323945.1|predicted protein [Populus trichocarpa] ,"
GO:0005739,GO:0005488,GO:0016021,GO:0006839,GO:0016020,GO:0055085,GO:0006810", "X
P_002323945.1,EEF04078.1"
Stramenopiles-Phytophthora_sojae_jgi122975,299,548.125,4.37E-
154,gi|301122859|ref|XP_002909156.1|phosphatidyl inositol kinase (PIK-B)
[Phytophthora infestans T30-4] ,"
GO:0048015,GO:0016301,GO:0005488,GO:0016740,GO:0004428,GO:0046854,GO:0016773", "X
P_002909156.1,EEY57970.1"
Stramenopiles-Phytophthora_capsici_jgi122175,304,553.518,9.22E-
156,gi|301122859|ref|XP_002909156.1|phosphatidyl inositol kinase (PIK-B)
[Phytophthora infestans T30-4] ,"
GO:0048015,GO:0016301,GO:0005488,GO:0016740,GO:0004428,GO:0046854,GO:0016773", "X
P_002909156.1,EEY57970.1"

Stramenopiles-Phytophthora_ramorum_jgi38706,257,326.25,1.92E-87,gi|301122859|ref|XP_002909156.1|phosphatidyl inositol kinase (PIK-B) [Phytophthora infestans T30-4] ,"
GO:0048015,GO:0016301,GO:0005488,GO:0016740,GO:0004428,GO:0046854,GO:0016773", "XP_002909156.1,EEY57970.1"

Stramenopiles-
Phytophthora_capsici_jgi424,1257,2285.37,0,gi|301112286|ref|XP_002905222.1|phosphatidylinositol kinase [Phytophthora infestans T30-4] ,"
GO:0016740,GO:0004428,GO:0016303,GO:0046854,GO:0016301,GO:0048015,GO:0005942,GO:0016773,GO:0005488", "XP_002905222.1,EEY53604.1"

Stramenopiles-
Phytophthora_sojae_jgi129234,1293,2316.58,0,gi|301112286|ref|XP_002905222.1|phosphatidylinositol kinase [Phytophthora infestans T30-4] ,"
GO:0016740,GO:0004428,GO:0016303,GO:0046854,GO:0016301,GO:0048015,GO:0005942,GO:0016773,GO:0005488", "XP_002905222.1,EEY53604.1"

Stramenopiles-
Phytophthora_ramorum_jgi77134,1268,2241.85,0,gi|301112286|ref|XP_002905222.1|phosphatidylinositol kinase [Phytophthora infestans T30-4] ,"
GO:0016740,GO:0004428,GO:0016303,GO:0046854,GO:0016301,GO:0048015,GO:0005942,GO:0016773,GO:0005488", "XP_002905222.1,EEY53604.1"

Stramenopiles-
Phytophthora_sojae_jgi155701,1300,2450.24,0,gi|301112280|ref|XP_002905219.1|phosphatidylinositol kinase [Phytophthora infestans T30-4] ,"
GO:0016740,GO:0004428,GO:0016303,GO:0046854,GO:0016301,GO:0048015,GO:0005942,GO:0016773,GO:0005488", "XP_002905219.1,EEY53601.1"

Stramenopiles-Phytophthora_capsici_jgi104814,219,462.611,1.20E-128,gi|301112280|ref|XP_002905219.1|phosphatidylinositol kinase [Phytophthora infestans T30-4] ,"
GO:0016740,GO:0004428,GO:0016303,GO:0046854,GO:0016301,GO:0048015,GO:0005942,GO:0016773,GO:0005488", "XP_002905219.1,EEY53601.1"

Stramenopiles-
Phytophthora_ramorum_jgi77130,1374,2617.03,0,gi|301112280|ref|XP_002905219.1|phosphatidylinositol kinase [Phytophthora infestans T30-4] ,"
GO:0016740,GO:0004428,GO:0016303,GO:0046854,GO:0016301,GO:0048015,GO:0005942,GO:0016773,GO:0005488", "XP_002905219.1,EEY53601.1"

Stramenopiles-
Phytophthora_capsici_jgi28123,680,923.309,0,gi|301119275|ref|XP_002907365.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
,, "XP_002907365.1,EEY63929.1"

Stramenopiles-
Fragilariopsis_cylindrus_jgi210020,438,639.032,0,gi|219126933|ref|XP_002183701.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0016301,GO:0005737,GO:0016740,GO:0004618,GO:0006096", "XP_002183701.1,EEC44883.1"

Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219126933,448,910.212,0,gi|219126933|ref|XP_002183701.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0016301,GO:0005737,GO:0016740,GO:0004618,GO:0006096", "XP_002183701.1,EEC44883.1"

Stramenopiles-Aureococcus_anophagefferens_jgi71305,979,579.326,7.90E-163,gi|299115459|emb|CBN75623.1|phosphoglycerate kinase [Ectocarpus siliculosus] ,"
GO:0016301,GO:0005737,GO:0016740,GO:0004618,GO:0006096", "CBN75623.1"

Stramenopiles-Phytophthora_parasitica_esgi222401461_1,188,217.624,4.27E-55,gi|301115920|ref|XP_002905689.1|U1 small nuclear ribonucleoprotein A

[Phytophthora infestans T30-4] ,"
GO:0003676,GO:0000166,GO:0030529", "XP_002905689.1,EEY68530.1"
Stramenopiles-Phytophthora_capsici_jgi22685,233,372.474,2.12E-
101,gi|301115920|ref|XP_002905689.1|U1 small nuclear ribonucleoprotein A
[Phytophthora infestans T30-4] ,"
GO:0003676,GO:0000166,GO:0030529", "XP_002905689.1,EEY68530.1"
Stramenopiles-Phytophthora_sojae_jgi136102,237,392.889,1.36E-
107,gi|301115920|ref|XP_002905689.1|U1 small nuclear ribonucleoprotein A
[Phytophthora infestans T30-4] ,"
GO:0003676,GO:0000166,GO:0030529", "XP_002905689.1,EEY68530.1"
Stramenopiles-Phytophthora_ramorum_jgi93644,230,377.867,4.54E-
103,gi|301115920|ref|XP_002905689.1|U1 small nuclear ribonucleoprotein A
[Phytophthora infestans T30-4] ,"
GO:0003676,GO:0000166,GO:0030529", "XP_002905689.1,EEY68530.1"
Stramenopiles-Aureococcus_anophagefferens_jgi28680,215,246.899,9.72E-
64,gi|116781538|gb|ABK22144.1|unknown [Picea sitchensis],"
GO:0003676,GO:0000166",ABK22144.1
Stramenopiles-
Fragilariopsis_cylindrus_jgi227489,717,1006.9,0,gi|219128000|ref|XP_002184212.1|
predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,
GO:0005488,"XP_002184212.1,EEC44390.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219128000,710,1454.11,0,gi|219128000|ref
|XP_002184212.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,
GO:0005488,"XP_002184212.1,EEC44390.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223994285,644,1314.29,0,gi|223994285|ref|XP_
002286826.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
GO:0005488,"XP_002286826.1,EED96467.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi38752,694,915.22,0,gi|299470767|emb|CBN79813.1|co
nserved unknown protein [Ectocarpus siliculosus], GO:0005488,CBN79813.1
Stramenopiles-Aureococcus_anophagefferens_jgi12738,443,522.702,3.59E-
146,gi|299470767|emb|CBN79813.1|conserved unknown protein [Ectocarpus
siliculosus], GO:0005488,CBN79813.1
Stramenopiles-Aureococcus_anophagefferens_jgi66238,277,454.907,3.82E-
126,gi|299470767|emb|CBN79813.1|conserved unknown protein [Ectocarpus
siliculosus], GO:0005488,CBN79813.1
Stramenopiles-
Phytophthora_sojae_jgi132845,796,1481.85,0,gi|301107612|ref|XP_002902888.1|VAC14
family protein [Phytophthora infestans T30-4] ,
GO:0005488,"XP_002902888.1,EEY56058.1"
Stramenopiles-
Phytophthora_ramorum_jgi95460,769,1441.4,0,gi|301107612|ref|XP_002902888.1|VAC14
family protein [Phytophthora infestans T30-4] ,
GO:0005488,"XP_002902888.1,EEY56058.1"
Stramenopiles-
Phytophthora_capsici_jgi55552,617,1194.49,0,gi|301107612|ref|XP_002902888.1|VAC1
4 family protein [Phytophthora infestans T30-4] ,
GO:0005488,"XP_002902888.1,EEY56058.1"
Stramenopiles-Aureococcus_anophagefferens_jgi67082,1199,232.261,2.86E-
58,gi|167517467|ref|XP_001743074.1|hypothetical protein [Monosiga brevicollis
MX1] ,,"XP_001743074.1,EDQ91788.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219112637,572,1175.61,0,gi|219112637|ref

|XP_002178070.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,
GO:0055085,"XP_002178070.1,EEC50884.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224001012,504,1030.01,0,gi|224001012|ref|XP_002290178.1|transporter belonging to the MFS superfamily [Thalassiosira pseudonana CCMP1335] , GO:0055085,"XP_002290178.1,EED91930.1"
Stramenopiles-Phytophthora_brassicae_esContig1621_3,372,548.895,3.49E-154,gi|301122213|ref|XP_002908833.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] , GO:0055085,"XP_002908833.1,EEY57647.1"
Stramenopiles-
Phytophthora_ramorum_jgi72570,535,903.279,0,gi|301122213|ref|XP_002908833.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] , GO:0055085,"XP_002908833.1,EEY57647.1"
Stramenopiles-
Phytophthora_sojae_jgi130057,477,670.618,0,gi|301122213|ref|XP_002908833.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] , GO:0055085,"XP_002908833.1,EEY57647.1"
Stramenopiles-Phytophthora_parasitica_esgi68418455_2,267,428.713,2.70E-118,gi|301122213|ref|XP_002908833.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] , GO:0055085,"XP_002908833.1,EEY57647.1"
Stramenopiles-
Phytophthora_capsici_jgi122099,525,853.588,0,gi|301122213|ref|XP_002908833.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] , GO:0055085,"XP_002908833.1,EEY57647.1"
Stramenopiles-Aureococcus_anophagefferens_jgi60526,815,197.208,7.93E-48,gi|120437766|ref|YP_863452.1|cysteine desulfurase-like protein [Gramella forsetii KT0803] , " GO:0008152,GO:0003824,GO:0030170", "YP_863452.1,CAL68385.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219110076,766,1590.47,0,gi|219110076|ref|XP_002176790.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0004835,GO:0008152,GO:0003824,GO:0030170,GO:0006464", "XP_002176790.1,EEC51253.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi239209,1118,545.428,1.59E-152,gi|224011465|ref|XP_002295507.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0004835,GO:0008152,GO:0003824,GO:0030170,GO:0006464", "XP_002295507.1,ACI64224.1"
Stramenopiles-Phytophthora_capsici_jgi116031,338,439.113,3.33E-121,"gi|301114201|ref|XP_002998870.1|Ufm1-specific protease, putative [Phytophthora infestans T30-4] ", GO:0008233,"XP_002998870.1,EEY69016.1"
Stramenopiles-
Phytophthora_ramorum_jgi83661,665,920.613,0,"gi|301114201|ref|XP_002998870.1|Ufm1-specific protease, putative [Phytophthora infestans T30-4] ", GO:0008233,"XP_002998870.1,EEY69016.1"
Stramenopiles-
Phytophthora_sojae_jgi132341,659,934.48,0,"gi|301114201|ref|XP_002998870.1|Ufm1-specific protease, putative [Phytophthora infestans T30-4] ", GO:0008233,"XP_002998870.1,EEY69016.1"
Stramenopiles-Blastocystis_hominis_tbBHL00001025_6,275,271.937,4.48E-71,gi|300121681|emb|CBK22256.2|unnamed protein product [Blastocystis hominis] , ,CBK22256.2
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223997602,408,861.677,0,gi|223997602|ref|XP_002288474.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0003913,GO:0006281", "XP_002288474.1,EED93910.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219119456,515,1082.4,0,gi|219119456|ref|XP_002180488.1|cyclobutane pyrimidine dimer 1 [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0003913,GO:0006281", "XP_002180488.1,EEC47896.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219120881,282,586.26,1.39E-165,gi|219120881|ref|XP_002185672.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002185672.1,ACI65142.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219114445,998,2065.43,0,gi|219114445|ref|XP_002176393.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002176393.1,EEC42629.1"

Stramenopiles-Blastocystis_hominis_tbBHL00000230_3,408,261.151,1.84E-67,gi|300176176|emb|CBK23487.2|unnamed protein product [Blastocystis hominis], " GO:0005509,GO:0016021,GO:0016020,GO:0055085,GO:0016462,GO:0006810,GO:0005215", "CB K23487.2"

Stramenopiles-

Phytophthora_sojae_jgi109723,367,675.626,0,"gi|301107902|ref|XP_002903033.1|glycoside hydrolase, putative [Phytophthora infestans T30-4] ", " GO:0055114,GO:0005488,GO:0016491,GO:0016787,GO:0008152,GO:0003824,GO:0008270,GO:0005622", "XP_002903033.1,EEY56203.1"

Stramenopiles-

Phytophthora_capsici_jgi108661,689,1080.86,0,"gi|301107902|ref|XP_002903033.1|glycoside hydrolase, putative [Phytophthora infestans T30-4] ", " GO:0055114,GO:0005488,GO:0016491,GO:0016787,GO:0008152,GO:0003824,GO:0008270,GO:0005622", "XP_002903033.1,EEY56203.1"

Stramenopiles-Phytophthora_ramorum_jgi41436,342,634.795,3.76E-

180,"gi|301107902|ref|XP_002903033.1|glycoside hydrolase, putative [Phytophthora infestans T30-4] ", " GO:0055114,GO:0005488,GO:0016491,GO:0016787,GO:0008152,GO:0003824,GO:0008270,GO:0005622", "XP_002903033.1,EEY56203.1"

Stramenopiles-

Phytophthora_ramorum_jgi50225,366,662.529,0,"gi|301107902|ref|XP_002903033.1|glycoside hydrolase, putative [Phytophthora infestans T30-4] ", " GO:0055114,GO:0005488,GO:0016491,GO:0016787,GO:0008152,GO:0003824,GO:0008270,GO:0005622", "XP_002903033.1,EEY56203.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223993651,344,706.442,0,gi|223993651|ref|XP_002286509.1|alcohol dehydrogenase [Thalassiosira pseudonana CCMP1335] , " GO:0055114,GO:0005488,GO:0016491,GO:0004022,GO:0008152,GO:0003824,GO:0008270", "XP_002286509.1,EED96150.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi208777,367,383.259,2.37E-

104,gi|223993651|ref|XP_002286509.1|alcohol dehydrogenase [Thalassiosira pseudonana CCMP1335] , " GO:0055114,GO:0005488,GO:0016491,GO:0004022,GO:0008152,GO:0003824,GO:0008270", "XP_002286509.1,EED96150.1"

Stramenopiles-Phytophthora_capsici_jgi28300,324,567.385,7.13E-

160,"gi|301107500|ref|XP_002902832.1|protein phosphatase 2C, putative [Phytophthora infestans T30-4] ", " GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721", "XP_002902832.1,EEY56002.1"

Stramenopiles-Phytophthora_ramorum_jgi79659,311,565.844,1.87E-

159,"gi|301107500|ref|XP_002902832.1|protein phosphatase 2C, putative [Phytophthora infestans T30-4] ", "

GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721", "X
P_002902832.1,EEY56002.1"
Stramenopiles-Phytophthora_sojae_jgi132776,314,572.392,2.48E-
161,"gi|301107500|ref|XP_002902832.1|protein phosphatase 2C, putative
[Phytophthora infestans T30-4] ", "
GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721", "X
P_002902832.1,EEY56002.1"
Stramenopiles-Phytophthora_parasitica_esgi68419426_1,239,357.836,5.89E-
97,"gi|301107500|ref|XP_002902832.1|protein phosphatase 2C, putative
[Phytophthora infestans T30-4] ", "
GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721", "X
P_002902832.1,EEY56002.1"
Stramenopiles-Aureococcus_anophagefferens_jgi19509,263,131.724,6.93E-
29,gi|307103433|gb|EFN51693.1|hypothetical protein CHLNCDRAFT_139942 [Chlorella
variabilis],EFN51693.1
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224000471,519,1068.53,0,gi|224000471|ref|XP_
002289908.1|hypothetical protein THAPSDRAFT_262261 [Thalassiosira pseudonana
CCMP1335] , "
GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721", "X
P_002289908.1,EED93445.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219116885,646,1335.47,0,gi|219116885|ref
|XP_002179237.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721", "X
P_002179237.1,EEC49060.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi204950,256,440.269,8.32E-
122,gi|219116885|ref|XP_002179237.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , "
GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721", "X
P_002179237.1,EEC49060.1"
Stramenopiles-
Phytophthora_ramorum_jgi86329,676,935.25,0,gi|301116507|ref|XP_002905982.1|conse
rved hypothetical protein [Phytophthora infestans T30-4] , "
GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721", "X
P_002905982.1,EEY67334.1"
Stramenopiles-
Phytophthora_sojae_jgi133867,665,941.799,0,gi|301116507|ref|XP_002905982.1|conse
rved hypothetical protein [Phytophthora infestans T30-4] , "
GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721", "X
P_002905982.1,EEY67334.1"
Stramenopiles-
Phytophthora_ramorum_jgi77120,487,967.222,0,"gi|301112262|ref|XP_002905210.1|exo
polysaccharide phosphotransferase, putative [Phytophthora infestans T30-4] ", "
GO:0016740,"XP_002905210.1,EEY53592.1"
Stramenopiles-
Phytophthora_capsici_jgi109685,479,963.755,0,"gi|301112262|ref|XP_002905210.1|ex
opolysaccharide phosphotransferase, putative [Phytophthora infestans T30-4] ", "
GO:0016740,"XP_002905210.1,EEY53592.1"
Stramenopiles-
Phytophthora_sojae_jgi129214,477,911.753,0,"gi|301112260|ref|XP_002905209.1|exo
polysaccharide phosphotransferase, putative [Phytophthora infestans T30-4] ", "
GO:0016740,"XP_002905209.1,EEY53591.1"
Stramenopiles-
Phytophthora_ramorum_jgi77119,477,918.687,0,"gi|301112260|ref|XP_002905209.1|exo

polysaccharide phosphotransferase, putative [Phytophthora infestans T30-4] ",
GO:0016740,"XP_002905209.1,EEY53591.1"
Stramenopiles-
Phytophthora capsici_jgi118003,478,938.332,0,"gi|301112260|ref|XP_002905209.1|ex
opolysaccharide phosphotransferase, putative [Phytophthora infestans T30-4] ",
GO:0016740,"XP_002905209.1,EEY53591.1"
Stramenopiles-
Phytophthora sojae_jgi129215,487,976.852,0,"gi|301112262|ref|XP_002905210.1|exop
olysaccharide phosphotransferase, putative [Phytophthora infestans T30-4] ",
GO:0016740,"XP_002905210.1,EEY53592.1"
Stramenopiles-Aureococcus anophagefferens_jgi69098,335,302.753,3.38E-
80,gi|303278410|ref|XP_003058498.1|MrwW methylase/RNA recognition motif protein
[Micromonas pusilla CCMP1545] ,"
GO:0003723,GO:0003676,GO:0008168,GO:0000166,GO:0008270,GO:0005622","XP_003058498
.1,EEH56953.1"
Stramenopiles-
Phytophthora sojae_jgi156133,1315,1564.28,0,gi|301100762|ref|XP_002899470.1|phos
phatidylinositol kinase (PIK-J) [Phytophthora infestans T30-4] ,"
GO:0048015,GO:0016301,GO:0005488,GO:0016740,GO:0004428,GO:0046854,GO:0016773","X
P_002899470.1,EEY61830.1"
Stramenopiles-
Phytophthora ramorum_jgi96102,1206,743.036,0,gi|301100762|ref|XP_002899470.1|pho
sphatidylinositol kinase (PIK-J) [Phytophthora infestans T30-4] ,"
GO:0048015,GO:0016301,GO:0005488,GO:0016740,GO:0004428,GO:0046854,GO:0016773","X
P_002899470.1,EEY61830.1"
Stramenopiles-
Phytophthora sojae_jgi137537,1327,1680.61,0,gi|301123157|ref|XP_002909305.1|phos
phatidylinositol kinase (PIK-K) [Phytophthora infestans T30-4] ,"
GO:0048015,GO:0016301,GO:0005488,GO:0016740,GO:0004428,GO:0046854,GO:0016773","X
P_002909305.1,EEY58119.1"
Stramenopiles-
Phytophthora ramorum_jgi84131,1343,1710.27,0,gi|301123157|ref|XP_002909305.1|pho
sphatidylinositol kinase (PIK-K) [Phytophthora infestans T30-4] ,"
GO:0048015,GO:0016301,GO:0005488,GO:0016740,GO:0004428,GO:0046854,GO:0016773","X
P_002909305.1,EEY58119.1"
Stramenopiles-
Phytophthora capsici_jgi119880,675,900.197,0,gi|301123157|ref|XP_002909305.1|pho
sphatidylinositol kinase (PIK-K) [Phytophthora infestans T30-4] ,"
GO:0048015,GO:0016301,GO:0005488,GO:0016740,GO:0004428,GO:0046854,GO:0016773","X
P_002909305.1,EEY58119.1"
Stramenopiles-
Thalassiosira pseudonana_CCMP1335_gi224001960,863,1788.47,0,gi|224001960|ref|XP_
002290652.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0006508,GO:0016020","XP_002290652.1,EED92404.1"
Stramenopiles-
Phytophthora ramorum_jgi74841,484,863.218,0,"gi|301114335|ref|XP_002998937.1|gua
nine deaminase, putative [Phytophthora infestans T30-4] ",
GO:0016787,GO:0008892,GO:0008270","XP_002998937.1,EEY69083.1"
Stramenopiles-
Phytophthora sojae_jgi121912,454,829.321,0,"gi|301114335|ref|XP_002998937.1|guan
ine deaminase, putative [Phytophthora infestans T30-4] ",
GO:0016787,GO:0008892,GO:0008270","XP_002998937.1,EEY69083.1"
Stramenopiles-
Phytophthora capsici_jgi12948,483,865.529,0,"gi|301114335|ref|XP_002998937.1|gua

nine deaminase, putative [Phytophthora infestans T30-4] ", "
GO:0016787,GO:0008892,GO:0008270", "XP_002998937.1,EEY69083.1"
Stramenopiles-Aureococcus_anophagefferens_jgi30098,258,174.866,7.09E-
42,gi|299116665|emb|CBN74810.1|conserved unknown protein [Ectocarpus
siliculosus],,CBN74810.1
Stramenopiles-Aureococcus_anophagefferens_jgi25276,625,311.612,1.94E-
82,gi|224002120|ref|XP_002290732.1|cyclic nucleotide and voltage-activated ion
channel [Thalassiosira pseudonana CCMP1335] , "
GO:0005509,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "X
P_002290732.1,EED92484.1"
Stramenopiles-Phytophthora_ramorum_jgi95518,384,151.369,1.57E-
34,gi|113478270|ref|YP_724331.1|cyclic nucleotide-binding protein [Trichodesmium
erythraeum IMS101] , "
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:
0006810", "YP_724331.1,ABG53858.1"
Stramenopiles-Phytophthora_capsici_jgi20532,410,172.94,5.87E-
41,gi|301095776|ref|XP_002896987.1|hypothetical protein PITG_17082 [Phytophthora
infestans T30-4] , "
GO:0005249,GO:0016020,GO:0006813", "XP_002896987.1,EEY66468.1"
Stramenopiles-
Phytophthora_ramorum_jgi96327,505,930.243,0,gi|301100019|ref|XP_002899100.1|Volt
age-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , "
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:
0006810", "XP_002899100.1,EEY62464.1"
Stramenopiles-
Phytophthora_sojae_jgi127250,369,681.789,0,gi|301100019|ref|XP_002899100.1|Volta
ge-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , "
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:
0006810", "XP_002899100.1,EEY62464.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi27794,440,640.573,0,gi|167537422|ref|XP_001750380
.1|hypothetical protein [Monosiga brevicollis MX1] , "
GO:0008152,GO:0003824", "XP_001750380.1,EDQ84879.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi234597,417,650.973,0,gi|223998384|ref|XP_002288865.1
|hypothetical protein THAPSDRAFT_32882 [Thalassiosira pseudonana CCMP1335] , "
GO:0008152,GO:0003824", "XP_002288865.1,EED94301.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223998384,401,835.099,0,gi|223998384|ref|XP_
002288865.1|hypothetical protein THAPSDRAFT_32882 [Thalassiosira pseudonana
CCMP1335] , " GO:0008152,GO:0003824", "XP_002288865.1,EED94301.1"
Stramenopiles-Phytophthora_ramorum_jgi86868,917,345.51,1.93E-
92,gi|301103410|ref|XP_002900791.1|conserved hypothetical protein [Phytophthora
infestans T30-4] , , "XP_002900791.1,EEY59598.1"
Stramenopiles-Phytophthora_sojae_jgi118601,310,244.588,1.08E-
62,gi|189531950|ref|XP_001920417.1|PREDICTED: GI11945-like [Danio
rerio],,XP_001920417.1
Stramenopiles-Phytophthora_sojae_jgi143982,2251,387.497,1.19E-
104,gi|291221631|ref|XP_002730823.1|PREDICTED: Gap-Pol polyprotein-like
[Saccoglossus kowalevskii],,XP_002730823.1
Stramenopiles-Phytophthora_sojae_jgi145162,565,486.493,3.79E-
135,"gi|301102191|ref|XP_002900183.1|regulator of nonsense transcripts 2,
putative [Phytophthora infestans T30-4] ", "
GO:0005488,GO:0016070,GO:0005515", "XP_002900183.1,EEY60387.1"

Stramenopiles-

Phytophthora capsici_jgi108983,592,951.044,0,"gi|301110280|ref|XP_002904220.1|beta-D-xylosidase, putative [Phytophthora infestans T30-4] ","GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798","XP_002904220.1,EEY54398.1"

Stramenopiles-

Phytophthora sojae_jgi142411,1419,2451.01,0,"gi|301094310|ref|XP_002896261.1|structural maintenance of chromosomes protein 4, putative [Phytophthora infestans T30-4] ","GO:0005694,GO:0005524,GO:0051276,GO:0005515","XP_002896261.1,EEY67708.1"

Stramenopiles-

Phytophthora ramorum_jgi75570,1331,2374.74,0,"gi|301094310|ref|XP_002896261.1|structural maintenance of chromosomes protein 4, putative [Phytophthora infestans T30-4] ","GO:0005694,GO:0005524,GO:0051276,GO:0005515","XP_002896261.1,EEY67708.1"

Stramenopiles-

Phytophthora capsici_jgi10243,1408,2485.29,0,"gi|301094310|ref|XP_002896261.1|structural maintenance of chromosomes protein 4, putative [Phytophthora infestans T30-4] ","GO:0005694,GO:0005524,GO:0051276,GO:0005515","XP_002896261.1,EEY67708.1"

Stramenopiles-

Fragilariopsis cylindrus_jgi212991,1333,1618.59,0,gi|219113225|ref|XP_002186196.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0005694,GO:0005524,GO:0051276,GO:0005515","XP_002186196.1,ACI65666.1"

Stramenopiles-

Phaeodactylum tricornutum_CCAP_1055/1_gi219113225,1356,2770.34,0,gi|219113225|ref|XP_002186196.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0005694,GO:0005524,GO:0051276,GO:0005515","XP_002186196.1,ACI65666.1"

Stramenopiles-

Thalassiosira pseudonana_CCMP1335_gi224009910,1268,2586.22,0,gi|224009910|ref|XP_002293913.1|chromosome condensation protein-like protein [Thalassiosira pseudonana CCMP1335] , "GO:0005694,GO:0005524,GO:0051276,GO:0005515","XP_002293913.1,EED88922.1"

Stramenopiles-

Aureococcus anophagefferens_jgi72033,2223,934.095,0,gi|219113225|ref|XP_002186196.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0005694,GO:0005524,GO:0051276,GO:0005515","XP_002186196.1,ACI65666.1"

Stramenopiles-Phytophthora sojae_jgi127612,216,325.479,2.45E-

87,gi|301088739|ref|XP_002894782.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0016021,"XP_002894782.1,EEY66807.1"

Stramenopiles-Aureococcus anophagefferens_jgi29752,158,181.415,2.87E-

44,gi|147905308|ref|NP_001090480.1|hypothetical protein LOC779393 [Xenopus laevis] , GO:0016021,"NP_001090480.1,AAI23161.1"

Stramenopiles-Fragilariopsis cylindrus_jgi164257,130,99.3673,1.14E-

19,gi|307102981|gb|EFN51246.1|hypothetical protein CHLNCDRAFT_59822 [Chlorella variabilis] , ,EFN51246.1

Stramenopiles-

Aureococcus anophagefferens_jgi29439,1034,1155.2,0,gi|145341008|ref|XP_001415608.1|P-ATPase family transporter: calcium ion [Ostreococcus lucimarinus CCE9901] , "GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0000166,GO:0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820","XP_001415608.1,ABO93900.1"

Stramenopiles-

Phytophthora parasitica_esContig1105_3,454,864.759,0,"gi|301108972|ref|XP_002903

567.1|calcium-transporting ATPase 1, endoplasmic reticulum-type, putative
[Phytophthora infestans T30-4] ", "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0000166,GO:
0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820", "XP_002903567.1,
EEY55343.1"
Stramenopiles-
Phytophthora_ramorum_jgi86978,717,1345.1,0,"gi|301094223|ref|XP_002997955.1|fatty
acid synthase subunit alpha, putative [Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009059,GO:0006633,GO:0005737,GO:0055114,GO:0016491,GO:0003824,GO:
0004312,GO:0005835,GO:0008897,GO:0008152,GO:0000287,GO:0005488", "XP_002997955.1,
EEY67793.1"
Stramenopiles-
Phytophthora_ramorum_jgi74442,4124,7542.58,0,"gi|301094223|ref|XP_002997955.1|fa
tty acid synthase subunit alpha, putative [Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009059,GO:0006633,GO:0005737,GO:0055114,GO:0016491,GO:0003824,GO:
0004312,GO:0005835,GO:0008897,GO:0008152,GO:0000287,GO:0005488", "XP_002997955.1,
EEY67793.1"
Stramenopiles-
Phytophthora_sojae_jgi132304,1003,1228,0,"gi|301105289|ref|XP_002901728.1|fatty
acid synthase subunit alpha, putative [Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009059,GO:0006633,GO:0005737,GO:0055114,GO:0016491,GO:0003824,GO:
0018580,GO:0004312,GO:0005835,GO:0008897,GO:0008152,GO:0000287,GO:0005488", "XP_0
02901728.1,EEY57118.1"
Stramenopiles-
Phytophthora_sojae_jgi132827,673,1110.13,0,"gi|301094223|ref|XP_002997955.1|fatty
acid synthase subunit alpha, putative [Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009059,GO:0006633,GO:0005737,GO:0055114,GO:0016491,GO:0003824,GO:
0004312,GO:0005835,GO:0008897,GO:0008152,GO:0000287,GO:0005488", "XP_002997955.1,
EEY67793.1"
Stramenopiles-
Phytophthora_sojae_jgi140057,3296,5695.93,0,"gi|301094223|ref|XP_002997955.1|fat
ty acid synthase subunit alpha, putative [Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009059,GO:0006633,GO:0005737,GO:0055114,GO:0016491,GO:0003824,GO:
0004312,GO:0005835,GO:0008897,GO:0008152,GO:0000287,GO:0005488", "XP_002997955.1,
EEY67793.1"
Stramenopiles-Phytophthora_capsici_jgi87093,250,474.937,3.31E-
132,"gi|301094223|ref|XP_002997955.1|fatty acid synthase subunit alpha, putative
[Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009059,GO:0006633,GO:0005737,GO:0055114,GO:0016491,GO:0003824,GO:
0004312,GO:0005835,GO:0008897,GO:0008152,GO:0000287,GO:0005488", "XP_002997955.1,
EEY67793.1"
Stramenopiles-
Phytophthora_ramorum_jgi85456,2034,3558.07,0,"gi|301094223|ref|XP_002997955.1|fa
tty acid synthase subunit alpha, putative [Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009059,GO:0006633,GO:0005737,GO:0055114,GO:0016491,GO:0003824,GO:
0004312,GO:0005835,GO:0008897,GO:0008152,GO:0000287,GO:0005488", "XP_002997955.1,
EEY67793.1"
Stramenopiles-
Phytophthora_capsici_jgi10006,3259,4194.42,0,"gi|301094223|ref|XP_002997955.1|fa
tty acid synthase subunit alpha, putative [Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009059,GO:0006633,GO:0005737,GO:0055114,GO:0016491,GO:0003824,GO:
0004312,GO:0005835,GO:0008897,GO:0008152,GO:0000287,GO:0005488", "XP_002997955.1,
EEY67793.1"
Stramenopiles-
Phytophthora_ramorum_jgi82618,1080,980.319,0,gi|301090425|ref|XP_002895427.1|con

served hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895427.1,EEY56709.1"
Stramenopiles-Phytophthora_capsici_jgi19289,330,397.127,1.33E-
108,"gi|301109158|ref|XP_002903660.1|UDP-N-acetylglucosamine transporter,
putative [Phytophthora infestans T30-4] ", "
GO:0008643,GO:0016021,GO:0005351,GO:0000139", "XP_002903660.1,EEY55436.1"
Stramenopiles-Phytophthora_sojae_jgi142334,361,432.565,3.28E-
119,"gi|301109158|ref|XP_002903660.1|UDP-N-acetylglucosamine transporter,
putative [Phytophthora infestans T30-4] ", "
GO:0008643,GO:0016021,GO:0005351,GO:0000139", "XP_002903660.1,EEY55436.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224012463,492,1011.13,0,gi|224012463|ref|XP_
002294884.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002294884.1,EED87664.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224015271,737,1522.68,0,gi|224015271|ref|XP_
002297293.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002297293.1,EED86395.1"
Stramenopiles-Aureococcus_anophagefferens_jgi63340,1036,403.29,8.59E-
110,gi|224015271|ref|XP_002297293.1|predicted protein [Thalassiosira pseudonana
CCMP1335] ,, "XP_002297293.1,EED86395.1"
Stramenopiles-
Phytophthora_sojae_jgi142893,725,822.387,0,gi|301095335|ref|XP_002896768.1|tRNA
(cytosine-5-)-methyltransferase NSUN2-like protein [Phytophthora infestans T30-
4] , " GO:0003723,GO:0008168,GO:0016740", "XP_002896768.1,EEY66703.1"
Stramenopiles-
Phytophthora_ramorum_jgi77667,876,1043.49,0,gi|301095335|ref|XP_002896768.1|tRNA
(cytosine-5-)-methyltransferase NSUN2-like protein [Phytophthora infestans T30-
4] , " GO:0003723,GO:0008168,GO:0016740", "XP_002896768.1,EEY66703.1"
Stramenopiles-Phytophthora_capsici_jgi34633,552,596.275,3.66E-
168,gi|301095335|ref|XP_002896768.1|tRNA (cytosine-5-)-methyltransferase NSUN2-
like protein [Phytophthora infestans T30-4] , "
GO:0003723,GO:0008168,GO:0016740", "XP_002896768.1,EEY66703.1"
Stramenopiles-
Phytophthora_sojae_jgi137973,701,1224.92,0,"gi|301095411|ref|XP_002896806.1|tRNA
(cytosine-5-)-methyltransferase, putative [Phytophthora infestans T30-4] ", "
GO:0003723,GO:0003676,GO:0008168,GO:0016740,GO:0008270", "XP_002896806.1,EEY66741
.1"
Stramenopiles-
Phytophthora_capsici_jgi36436,693,1195.26,0,"gi|301095411|ref|XP_002896806.1|tRN
A (cytosine-5-)-methyltransferase, putative [Phytophthora infestans T30-4] ", "
GO:0003723,GO:0003676,GO:0008168,GO:0016740,GO:0008270", "XP_002896806.1,EEY66741
.1"
Stramenopiles-
Phytophthora_ramorum_jgi80021,693,1205.28,0,"gi|301095411|ref|XP_002896806.1|tRN
A (cytosine-5-)-methyltransferase, putative [Phytophthora infestans T30-4] ", "
GO:0003723,GO:0003676,GO:0008168,GO:0016740,GO:0008270", "XP_002896806.1,EEY66741
.1"
Stramenopiles-
Phytophthora_sojae_jgi156076,718,1139.02,0,"gi|301122641|ref|XP_002909047.1|tRNA
(cytosine-5-)-methyltransferase NSUN2, putative [Phytophthora infestans T30-4]
", " GO:0003723,GO:0008168,GO:0016740", "XP_002909047.1,EEY57861.1"
Stramenopiles-
Phytophthora_capsici_jgi70434,715,1144.03,0,"gi|301122641|ref|XP_002909047.1|tRN

A (cytosine-5-)-methyltransferase NSUN2, putative [Phytophthora infestans T30-4]
", " GO:0003723,GO:0008168,GO:0016740", "XP_002909047.1,EEY57861.1"
Stramenopiles-
Phytophthora_ramorum_jgi93316,716,1113.21,0,"gi|301122641|ref|XP_002909047.1|tRN
A (cytosine-5-)-methyltransferase NSUN2, putative [Phytophthora infestans T30-4]
", " GO:0003723,GO:0008168,GO:0016740", "XP_002909047.1,EEY57861.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi189551,362,375.555,5.07E-
102,gi|223997102|ref|XP_002288224.1|predicted protein [Thalassiosira pseudonana
CCMP1335] , " GO:0003723,GO:0008168", "XP_002288224.1,EED93660.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219130185,320,671.389,0,gi|219130185|ref
|XP_002185252.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0003676,GO:0008168,GO:0032259", "XP_002185252.1,EEC43384.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi151936,181,197.208,6.36E-
49,gi|219130185|ref|XP_002185252.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , " GO:0003676,GO:0008168,GO:0032259", "XP_002185252.1,EEC43384.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224015927,244,513.457,8.71E-
144,gi|224015927|ref|XP_002297606.1|predicted protein [Thalassiosira pseudonana
CCMP1335] , , "XP_002297606.1,EED86097.1"
Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224003919,230,482.641,1.46E-
134,gi|224003919|ref|XP_002291631.1|predicted protein [Thalassiosira pseudonana
CCMP1335] , , "XP_002291631.1,EED91738.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi161387,190,158.303,3.43E-
37,gi|255086063|ref|XP_002508998.1|predicted protein [Micromonas sp. RCC299]
 , , "XP_002508998.1,ACO70256.1"
Stramenopiles-Aureococcus_anophagefferens_jgi2314,419,426.402,2.80E-
117,gi|219109923|ref|XP_002176714.1|bifunctional 6-phosphofructo-2-kinase
[Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0016740,GO:0004331,GO:0016787,GO:0005524,GO:0016301,GO:0003824,GO:0008152,GO:
0006003,GO:0003873,GO:0006000", "XP_002176714.1,EEC51177.1"
Stramenopiles-Aureococcus_anophagefferens_jgi68696,1080,403.675,6.57E-
110,gi|42569586|ref|NP_180882.2|XID; motor/ protein binding [Arabidopsis
thaliana] , , NP_180882.2
Stramenopiles-Aureococcus_anophagefferens_jgi22513,826,622.854,6.00E-
176,gi|300122735|emb|CBK23300.2|unnamed protein product [Blastocystis hominis] , "
GO:0005524,GO:0016459,GO:0005515,GO:0003774", "CBK23300.2
Stramenopiles-
Phytophthora_ramorum_jgi82014,1256,2373.97,0,gi|301120916|ref|XP_002908185.1|myo
sin-like protein [Phytophthora infestans T30-4] , "
GO:0005524,GO:0000166,GO:0016459,GO:0005515,GO:0003774", "XP_002908185.1,EEY61268
.1"
Stramenopiles-
Phytophthora_capsici_jgi30229,1256,2466.42,0,gi|301120916|ref|XP_002908185.1|myo
sin-like protein [Phytophthora infestans T30-4] , "
GO:0005524,GO:0000166,GO:0016459,GO:0005515,GO:0003774", "XP_002908185.1,EEY61268
.1"
Stramenopiles-
Phytophthora_sojae_jgi127507,1304,2440.61,0,gi|301120916|ref|XP_002908185.1|myos
in-like protein [Phytophthora infestans T30-4] , "
GO:0005524,GO:0000166,GO:0016459,GO:0005515,GO:0003774", "XP_002908185.1,EEY61268
.1"
Stramenopiles-
Phytophthora_ramorum_jgi96407,2085,1887.08,0,gi|301114269|ref|XP_002998904.1|con
served hypothetical protein [Phytophthora infestans T30-4] , "

GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002998904.1,EEY69050.1"
Stramenopiles-
Phytophthora_sojae_jgi157659,2109,1890.55,0,gi|301114269|ref|XP_002998904.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002998904.1,EEY69050.1"
Stramenopiles-
Phytophthora_capsici_jgi115893,1465,1375.92,0,gi|301114269|ref|XP_002998904.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0000166,GO:0003777,GO:0007018,GO:0003774,GO:0005874","XP_002998904.1,EEY69050.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223995915,319,658.677,0,gi|223995915|ref|XP_002287631.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0006306,GO:0008168,GO:0016740,GO:0003886,GO:0003677","XP_002287631.1,EED95074.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219122422,495,1021.92,0,gi|219122422|ref|XP_002181544.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0006306,GO:0008168,GO:0016740,GO:0003886,GO:0003677","XP_002181544.1,EEC46758.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi148014,464,410.609,1.85E-112,gi|219122422|ref|XP_002181544.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0006306,GO:0008168,GO:0016740,GO:0003886,GO:0003677","XP_002181544.1,EEC46758.1"
Stramenopiles-
Phytophthora_sojae_jgi128854,1375,1090.1,0,gi|301120626|ref|XP_002908040.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810","XP_002908040.1,EEY61123.1"
Stramenopiles-
Phytophthora_capsici_jgi112828,1147,1511.89,0,gi|301101152|ref|XP_002899665.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810","XP_002899665.1,EEY62025.1"
Stramenopiles-
Phytophthora_ramorum_jgi76830,1337,2386.3,0,gi|301101152|ref|XP_002899665.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810","XP_002899665.1,EEY62025.1"
Stramenopiles-
Phytophthora_sojae_jgi157391,1168,1689.86,0,gi|301101152|ref|XP_002899665.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810","XP_002899665.1,EEY62025.1"
Stramenopiles-
Phytophthora_sojae_jgi139968,1015,1833.92,0,gi|301113204|ref|XP_002998372.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810","XP_002998372.1,EEY69725.1"
Stramenopiles-
Phytophthora_ramorum_jgi77440,502,925.62,0,gi|301113204|ref|XP_002998372.1|ATP-binding Cassette (ABC) Superfamily [Phytophthora infestans T30-4] ,"

GO:0016887,GO:0005524,GO:0016021,GO:0000166,GO:0042626,GO:0055085,GO:0017111,GO:0006810", "XP_002998372.1,EEY69725.1"
Stramenopiles-
Phytophthora_ramorum_jgi72881,1356,2119.74,0,"gi|301122975|ref|XP_002909214.1|ryanodine-inositol 1,4,5-triphosphate receptor Ca² channel (RIR-CaC) family protein [Phytophthora infestans T30-4] ", GO:0004872,"XP_002909214.1,EEY58028.1"
Stramenopiles-Phytophthora_ramorum_jgi82645,323,464.151,9.12E-129,gi|301100226|ref|XP_002899203.1|zinc (Zn²)-Iron (Fe²) Permease (ZIP) family [Phytophthora infestans T30-4] ,"
GO:0016020,GO:0055085,GO:0030001,GO:0046873", "XP_002899203.1,EEY62172.1"
Stramenopiles-Phytophthora_brassicae_esContig1515_3,307,407.912,7.53E-112,gi|301100226|ref|XP_002899203.1|zinc (Zn²)-Iron (Fe²) Permease (ZIP) family [Phytophthora infestans T30-4] ,"
GO:0016020,GO:0055085,GO:0030001,GO:0046873", "XP_002899203.1,EEY62172.1"
Stramenopiles-Phytophthora_capsici_jgi117284,608,516.153,5.30E-144,gi|301100226|ref|XP_002899203.1|zinc (Zn²)-Iron (Fe²) Permease (ZIP) family [Phytophthora infestans T30-4] ,"
GO:0016020,GO:0055085,GO:0030001,GO:0046873", "XP_002899203.1,EEY62172.1"
Stramenopiles-Phytophthora_sojae_jgi133759,338,466.077,2.25E-129,gi|301100226|ref|XP_002899203.1|zinc (Zn²)-Iron (Fe²) Permease (ZIP) family [Phytophthora infestans T30-4] ,"
GO:0016020,GO:0055085,GO:0030001,GO:0046873", "XP_002899203.1,EEY62172.1"
Stramenopiles-
Phytophthora_sojae_jgi143651,1858,1711.43,0,"gi|301095515|ref|XP_002896858.1|calcium/calmodulin-dependent protein kinase kinase, putative [Phytophthora infestans T30-4] ", "
GO:0001932,GO:0004674,GO:0004672,GO:0005952,GO:0006468,GO:0000166,GO:0005524,GO:0016301,GO:0008603,GO:0003824", "XP_002896858.1,EEY66793.1"
Stramenopiles-
Phytophthora_ramorum_jgi80068,1848,2843.91,0,"gi|301095515|ref|XP_002896858.1|calcium/calmodulin-dependent protein kinase kinase, putative [Phytophthora infestans T30-4] ", "
GO:0001932,GO:0004674,GO:0004672,GO:0005952,GO:0006468,GO:0000166,GO:0005524,GO:0016301,GO:0008603,GO:0003824", "XP_002896858.1,EEY66793.1"
Stramenopiles-
Phytophthora_capsici_jgi17589,877,1331.62,0,"gi|301109339|ref|XP_002903750.1|protein kinase, putative [Phytophthora infestans T30-4] ", "
GO:0004674,GO:0004722,GO:0004721,GO:0004672,GO:0016787,GO:0006470,GO:0006468,GO:0000166,GO:0005524,GO:0016301,GO:0003824,GO:0008287,GO:0046872", "XP_002903750.1,EEY54805.1"
Stramenopiles-Phytophthora_capsici_jgi108989,415,503.056,2.61E-140,"gi|301113230|ref|XP_002998385.1|protein kinase, putative [Phytophthora infestans T30-4] ", "
GO:0004674,GO:0004672,GO:0006468,GO:0000166,GO:0005524,GO:0016301,GO:0003824,GO:0008152,GO:0005488", "XP_002998385.1,EEY69738.1"
Stramenopiles-Phytophthora_sojae_jgi130317,459,607.831,8.09E-172,gi|301122699|ref|XP_002909076.1|ser/thr kinase [Phytophthora infestans T30-4] , "
GO:0016301,GO:0005524,GO:0004672,GO:0006468,GO:0004674", "XP_002909076.1,EEY57890.1"
Stramenopiles-Aureococcus_anophagefferens_jgi70153,307,552.747,1.92E-155,"gi|301093191|ref|XP_002997444.1|ATP-dependent RNA helicase eIF4A, putative [Phytophthora infestans T30-4] ", "
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0000166,GO:0008026", "XP_002997444.1,EEY68752.1"

Stramenopiles-Phytophthora_parasitica_esContig657_1,559,443.736,2.82E-122,"gi|301093191|ref|XP_002997444.1|ATP-dependent RNA helicase eIF4A, putative [Phytophthora infestans T30-4] ",
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0000166,GO:0008026","XP_002997444.1,EEY68752.1"

Stramenopiles-Phytophthora_sojae_jgi109443,412,833.943,0,"gi|301093191|ref|XP_002997444.1|ATP-dependent RNA helicase eIF4A, putative [Phytophthora infestans T30-4] ",
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0000166,GO:0008026","XP_002997444.1,EEY68752.1"

Stramenopiles-Phytophthora_brassicae_esContig178_1,291,585.874,1.67E-165,"gi|301093191|ref|XP_002997444.1|ATP-dependent RNA helicase eIF4A, putative [Phytophthora infestans T30-4] ",
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0000166,GO:0008026","XP_002997444.1,EEY68752.1"

Stramenopiles-Phytophthora_ramorum_jgi71460,395,791.956,0,"gi|301093191|ref|XP_002997444.1|ATP-dependent RNA helicase eIF4A, putative [Phytophthora infestans T30-4] ",
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0000166,GO:0008026","XP_002997444.1,EEY68752.1"

Stramenopiles-Phytophthora_capsici_jgi91103,411,830.476,0,"gi|301093191|ref|XP_002997444.1|ATP-dependent RNA helicase eIF4A, putative [Phytophthora infestans T30-4] ",
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0000166,GO:0008026","XP_002997444.1,EEY68752.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi267058,417,733.021,0,gi|219113631|ref|XP_002186399.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0000166,GO:0008026","XP_002186399.1,ACI65869.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219113631,414,847.81,0,gi|219113631|ref|XP_002186399.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,
GO:0004386,GO:0003676,GO:0005524,GO:0016787,GO:0000166,GO:0008026","XP_002186399.1,ACI65869.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224009464,369,755.747,0,gi|224009464|ref|XP_002293690.1|eukaryotic translation initiation factor 4A [Thalassiosira pseudonana CCMP1335] ,
GO:0004386,GO:0003676,GO:0005524,GO:0003743,GO:0016787,GO:0000166,GO:0008026","XP_002293690.1,EED88699.1"

Stramenopiles-Phytophthora_ramorum_jgi71937,407,832.787,0,"gi|301112965|ref|XP_002998253.1|eukaryotic initiation factor 4A-III, putative [Phytophthora infestans T30-4] ",
GO:0004386,GO:0003676,GO:0005524,GO:0003743,GO:0016787,GO:0000166,GO:0008026","XP_002998253.1,EEY70599.1"

Stramenopiles-Phytophthora_ramorum_jgi41525,578,1020.76,0,gi|301108491|ref|XP_002903327.1|phosphoribosylaminoimidazole carboxylase [Phytophthora infestans T30-4] ,
GO:0005524,GO:0003824,GO:0004638,GO:0006189","XP_002903327.1,EEY55751.1"

Stramenopiles-Phytophthora_sojae_jgi116990,550,1039.25,0,gi|301108491|ref|XP_002903327.1|phosphoribosylaminoimidazole carboxylase [Phytophthora infestans T30-4] ,
GO:0005524,GO:0003824,GO:0004638,GO:0006189","XP_002903327.1,EEY55751.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219112303,608,1239.56,0,gi|219112303|ref|XP_002177903.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005524,GO:0003824,GO:0004638,GO:0006189", "XP_002177903.1,EEC50717.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi277172,642,813.913,0,gi|219112303|ref|XP_002177903.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005524,GO:0003824,GO:0004638,GO:0006189", "XP_002177903.1,EEC50717.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223998128,604,1237.25,0,gi|223998128|ref|XP_002288737.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005524,GO:0003824,GO:0004638,GO:0006189", "XP_002288737.1,EED94173.1"

Stramenopiles-Aureococcus_anophagefferens_jgi24362,383,335.88,4.87E-

90,gi|300772048|ref|ZP_07081918.1|phosphoribosylaminoimidazole carboxylase ATPase subunit [Sphingobacterium spiritivorum ATCC 33861] ,"
GO:0005524,GO:0003824,GO:0016829,GO:0004638,GO:0006189", "ZP_07081918.1,EFK57177.1"

Stramenopiles-Aureococcus_anophagefferens_jgi62259,1410,145.976,3.01E-32,gi|301111810|ref|XP_002904984.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0005509,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002904984.1,EEY53366.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219129179,1040,2155.95,0,gi|219129179|ref|XP_002184773.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005524,GO:0003824,GO:0004638,GO:0006189", "XP_002184773.1,EEC43832.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223993229,262,536.184,1.25E-150,gi|223993229|ref|XP_002286298.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002286298.1,EED95939.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219124753,145,298.516,1.61E-79,gi|219124753|ref|XP_002182661.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002182661.1,EEC45948.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi226832,161,216.853,5.96E-55,gi|219124753|ref|XP_002182661.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002182661.1,EEC45948.1"

Stramenopiles-Aureococcus_anophagefferens_jgi15418,147,176.022,9.71E-43,gi|312896100|ref|ZP_07755570.1|peptidyl-prolyl cis-trans isomerase cyclophilin type [Planctomyces brasiliensis DSM 5305] ,"
GO:0005524,GO:0003824,GO:0016829,GO:0004638,GO:0006189", "ZP_07755570.1,EFQ18824.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219124429,171,353.984,3.19E-96,gi|219124429|ref|XP_002182506.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002182506.1,EEC45793.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi264008,307,241.891,7.08E-62,gi|219124429|ref|XP_002182506.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002182506.1,EEC45793.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223995509,322,669.078,0,gi|223995509|ref|XP_002287428.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002287428.1,EED94871.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi182355,238,190.66,1.10E-46,gi|223997172|ref|XP_002288259.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002288259.1,EED93695.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223997172,314,651.358,0,gi|223997172|ref|XP_002288259.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "GO:0003755,GO:0006457,GO:0016853", "XP_002288259.1,EED93695.1"

Stramenopiles-Aureococcus_anophagefferens_jgi62264,286,231.491,8.75E-59,gi|223997172|ref|XP_002288259.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "GO:0003755,GO:0006457,GO:0016853", "XP_002288259.1,EED93695.1"

Stramenopiles-Aureococcus_anophagefferens_jgi1789,374,263.077,3.44E-68,gi|156362330|ref|XP_001625732.1|predicted protein [Nematostella vectensis] , "GO:0008152,GO:0003824,GO:0008484", "XP_001625732.1,EDO33632.1"

Stramenopiles-Aureococcus_anophagefferens_jgi70521,914,303.908,6.31E-80,gi|167524284|ref|XP_001746478.1|hypothetical protein [Monosiga brevicollis MX1] , "GO:0008152,GO:0003824,GO:0008484", "XP_001746478.1,EDQ88865.1"

Stramenopiles-Aureococcus_anophagefferens_jgi1327,498,273.478,4.20E-71,gi|167524284|ref|XP_001746478.1|hypothetical protein [Monosiga brevicollis MX1] , "GO:0008152,GO:0003824,GO:0008484", "XP_001746478.1,EDQ88865.1"

Stramenopiles-Aureococcus_anophagefferens_jgi28497,314,300.827,1.40E-79,gi|255077171|ref|XP_002502235.1|predicted protein [Micromonas sp. RCC299] , "GO:0055114,GO:0048037,GO:0005488,GO:0016491,GO:0008152,GO:0003824,GO:0016616,GO:0051287", "XP_002502235.1,ACO63493.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219116687,348,724.546,0,gi|219116687|ref|XP_002179138.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0048037,GO:0005488,GO:0008152,GO:0003824,GO:0016616,GO:0051287", "XP_002179138.1,EEC48961.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi267482,296,331.257,8.30E-89,gi|219116687|ref|XP_002179138.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "GO:0048037,GO:0005488,GO:0008152,GO:0003824,GO:0016616,GO:0051287", "XP_002179138.1,EEC48961.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223995643,340,702.975,0,gi|223995643|ref|XP_002287495.1|glycerate dehydrogenase and hydroxypyruvate reductase-like protein [Thalassiosira pseudonana CCMP1335] , "GO:0008465,GO:0051287,GO:0055114,GO:0016616,GO:0016491,GO:0003824,GO:0048037,GO:0008152,GO:0005488", "XP_002287495.1,EED94938.1"

Stramenopiles-Aureococcus_anophagefferens_jgi61643,366,213.772,2.87E-53,gi|254427042|ref|ZP_05040749.1|D-isomer specific 2-hydroxyacid dehydrogenase, catalytic domain, putative [Alcanivorax sp. DG881] , "GO:0055114,GO:0048037,GO:0005488,GO:0016491,GO:0008152,GO:0003824,GO:0016616,GO:0051287", "ZP_05040749.1,EDX88170.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi259260,956,148.288,4.09E-33,gi|260831236|ref|XP_002610565.1|hypothetical protein BRAFLDRAFT_117849 [Branchiostoma floridae] , "GO:0008152,GO:0003824", "XP_002610565.1,EEN66575.1"

Stramenopiles-Aureococcus_anophagefferens_jgi64875,768,162.54,1.77E-37,gi|260831236|ref|XP_002610565.1|hypothetical protein BRAFLDRAFT_117849 [Branchiostoma floridae] , "GO:0008152,GO:0003824", "XP_002610565.1,EEN66575.1"

Stramenopiles-Aureococcus_anophagefferens_jgi27415,491,376.326,4.40E-102,gi|299473637|emb|CBN78031.1|conserved unknown protein [Ectocarpus siliculosus] , "CBN78031.1"

Stramenopiles-

Phytophthora_ramorum_jgi72218,457,796.193,0,gi|301089635|ref|XP_002895098.1|Folate-Biopterin Transporter (FBT) Family [Phytophthora infestans T30-4] , "XP_002895098.1,EEY60273.1"

Stramenopiles-

Phytophthora_sojae_jgi109065,527,843.573,0,gi|301089635|ref|XP_002895098.1|Folate-Biopterin Transporter (FBT) Family [Phytophthora infestans T30-4]
,, "XP_002895098.1,EEY60273.1"

Stramenopiles-

Phytophthora_capsici_jgi123800,511,854.744,0,gi|301089635|ref|XP_002895098.1|Folate-Biopterin Transporter (FBT) Family [Phytophthora infestans T30-4]
,, "XP_002895098.1,EEY60273.1"

Stramenopiles-

Phytophthora_capsici_jgi18944,547,937.176,0,gi|301123155|ref|XP_002909304.1|Folate-Biopterin Transporter (FBT) Family [Phytophthora infestans T30-4]
,, "XP_002909304.1,EEY58118.1"

Stramenopiles-

Phytophthora_sojae_jgi137538,540,913.294,0,gi|301123155|ref|XP_002909304.1|Folate-Biopterin Transporter (FBT) Family [Phytophthora infestans T30-4]
,, "XP_002909304.1,EEY58118.1"

Stramenopiles-

Phytophthora_ramorum_jgi84132,568,803.897,0,gi|301123155|ref|XP_002909304.1|Folate-Biopterin Transporter (FBT) Family [Phytophthora infestans T30-4]
,, "XP_002909304.1,EEY58118.1"

Stramenopiles-

Phytophthora_ramorum_jgi86845,603,842.417,0,gi|301111478|ref|XP_002904818.1|folate-Biopterin Transporter (FBT) family [Phytophthora infestans T30-4]
,, "XP_002904818.1,EEY53200.1"

Stramenopiles-

Phytophthora_capsici_jgi36320,597,887.1,0,gi|301111478|ref|XP_002904818.1|folate-Biopterin Transporter (FBT) family [Phytophthora infestans T30-4]
,, "XP_002904818.1,EEY53200.1"

Stramenopiles-

Phytophthora_sojae_jgi135717,591,819.305,0,gi|301111478|ref|XP_002904818.1|folate-Biopterin Transporter (FBT) family [Phytophthora infestans T30-4]
,, "XP_002904818.1,EEY53200.1"

Stramenopiles-

Phytophthora_ramorum_jgi87756,723,1134.01,0,gi|301119505|ref|XP_002907480.1|exosome complex exonuclease RRP6-like protein [Phytophthora infestans T30-4] ,"
GO:0006139,GO:0003676,GO:0004527,GO:0000166,GO:0044237,GO:0003824,GO:0008408,GO:0005622", "XP_002907480.1,EEY64044.1"

Stramenopiles-

Phytophthora_sojae_jgi142047,1490,2190.62,0,gi|301119505|ref|XP_002907480.1|exosome complex exonuclease RRP6-like protein [Phytophthora infestans T30-4] ,"
GO:0006139,GO:0003676,GO:0004527,GO:0000166,GO:0044237,GO:0003824,GO:0008408,GO:0005622", "XP_002907480.1,EEY64044.1"

Stramenopiles-Aureococcus_anophagefferens_jgi63530,550,155.992,1.04E-

35,gi|115653109|ref|XP_001198503.1|PREDICTED: similar to exosome component 10 [Strongylocentrotus purpuratus] , "XP_001198503.1,XP_001189337.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi178610,204,209.534,1.57E-

52,gi|224003495|ref|XP_002291419.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
GO:0006139,GO:0003676,GO:0008408,GO:0005622", "XP_002291419.1,EED91526.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224003495,181,372.859,7.59E-

102,gi|224003495|ref|XP_002291419.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
GO:0006139,GO:0003676,GO:0008408,GO:0005622", "XP_002291419.1,EED91526.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219126108,311,627.861,4.57E-

178,gi|219126108|ref|XP_002183306.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0006139,GO:0003676,GO:0008408,GO:0005622", "XP_002183306.1,EEC45006.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219118959,682,1428.31,0,gi|219118959|ref|XP_002180246.1|beta-xylosidase [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798", "XP_002180246.1,EEC48437.1"
Stramenopiles-Aureococcus_anophagefferens_jgi28884,308,248.054,8.63E-64,gi|219118959|ref|XP_002180246.1|beta-xylosidase [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798", "XP_002180246.1,EEC48437.1"
Stramenopiles-
Phytophthora_capsici_jgi24562,809,1082.78,0,"gi|301090543|ref|XP_002895482.1|beta-glucosidase, putative [Phytophthora infestans T30-4] ", "
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798", "XP_002895482.1,EEY56284.1"
Stramenopiles-
Phytophthora_sojae_jgi134112,705,924.85,0,"gi|301090543|ref|XP_002895482.1|beta-glucosidase, putative [Phytophthora infestans T30-4] ", "
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798", "XP_002895482.1,EEY56284.1"
Stramenopiles-Phytophthora_capsici_jgi117022,659,572.778,5.26E-161,"gi|301118693|ref|XP_002907074.1|glycoside hydrolase, putative [Phytophthora infestans T30-4] ", "
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798", "XP_002907074.1,EEY63638.1"
Stramenopiles-
Phytophthora_sojae_jgi144049,806,1461.82,0,"gi|301118693|ref|XP_002907074.1|glycoside hydrolase, putative [Phytophthora infestans T30-4] ", "
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798", "XP_002907074.1,EEY63638.1"
Stramenopiles-
Phytophthora_ramorum_jgi73436,808,1441.79,0,"gi|301118693|ref|XP_002907074.1|glycoside hydrolase, putative [Phytophthora infestans T30-4] ", "
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798", "XP_002907074.1,EEY63638.1"
Stramenopiles-
Phytophthora_ramorum_jgi81321,791,1206.05,0,"gi|301110280|ref|XP_002904220.1|beta-D-xylosidase, putative [Phytophthora infestans T30-4] ", "
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798", "XP_002904220.1,EEY54398.1"
Stramenopiles-
Phytophthora_sojae_jgi138254,777,1204.89,0,"gi|301110280|ref|XP_002904220.1|beta-D-xylosidase, putative [Phytophthora infestans T30-4] ", "
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798", "XP_002904220.1,EEY54398.1"
Stramenopiles-Aureococcus_anophagefferens_jgi72703,745,459.529,6.48E-127,gi|167525174|ref|XP_001746922.1|hypothetical protein [Monosiga brevicollis MX1] ,"
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0016798", "XP_001746922.1,EDQ88329.1"
Stramenopiles-
Phytophthora_capsici_jgi123803,586,946.421,0,gi|301090782|ref|XP_002895593.1|con

served hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895593.1,EEY55822.1"
Stramenopiles-
Phytophthora_sojae_jgi158906,597,976.082,0,gi|301090782|ref|XP_002895593.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895593.1,EEY55822.1"
Stramenopiles-
Phytophthora_ramorum_jgi84332,416,717.613,0,gi|301090782|ref|XP_002895593.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002895593.1,EEY55822.1"
Stramenopiles-Blastocystis_hominis_tbBHL00001124_2,175,224.942,2.77E-57,gi|300120357|emb|CBK19911.2|unnamed protein product [Blastocystis hominis],,CBK19911.2
Stramenopiles-Fragilariopsis_cylindrus_jgi234217,671,408.297,1.62E-111,gi|219116374|ref|XP_002178982.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,, "XP_002178982.1,EEC49680.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219116374,686,1414.05,0,gi|219116374|ref|XP_002178982.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]
,, "XP_002178982.1,EEC49680.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224006954,754,1555.81,0,gi|224006954|ref|XP_002292437.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002292437.1,EED90412.1"
Stramenopiles-Phytophthora_sojae_jgi120543,404,559.681,2.31E-157,gi|301098051|ref|XP_002898119.1|myotubularin-like protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0016791,GO:0016311,GO:0006470,GO:0004725,GO:0008270", "XP_002898119.1,EEY63532.1"
Stramenopiles-Phytophthora_capsici_jgi13947,219,374.4,4.34E-102,gi|301098051|ref|XP_002898119.1|myotubularin-like protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0016791,GO:0016311,GO:0006470,GO:0004725,GO:0008270", "XP_002898119.1,EEY63532.1"
Stramenopiles-
Phytophthora_ramorum_jgi51394,404,653.67,0,gi|301098051|ref|XP_002898119.1|myotubularin-like protein [Phytophthora infestans T30-4] ,"
GO:0046872,GO:0016791,GO:0016311,GO:0006470,GO:0004725,GO:0008270", "XP_002898119.1,EEY63532.1"
Stramenopiles-
Phytophthora_sojae_jgi130134,1102,1724.52,0,"gi|301122381|ref|XP_002908917.1|alpha-1,3-mannosyltransferase, putative [Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009058,GO:0016311,GO:0016791,GO:0016757,GO:0005622,GO:0005515,GO:0005097,GO:0032313", "XP_002908917.1,EEY57731.1"
Stramenopiles-
Phytophthora_ramorum_jgi72636,1565,2481.44,0,"gi|301122381|ref|XP_002908917.1|alpha-1,3-mannosyltransferase, putative [Phytophthora infestans T30-4] ", "
GO:0016740,GO:0009058,GO:0016311,GO:0016791,GO:0016757,GO:0005622,GO:0005515,GO:0005097,GO:0032313", "XP_002908917.1,EEY57731.1"
Stramenopiles-
Phytophthora_sojae_jgi135799,1575,1967.2,0,gi|301111654|ref|XP_002904906.1|myotubularin-like protein [Phytophthora infestans T30-4] ,"
GO:0016791,GO:0016311,GO:0016787,GO:0004725", "XP_002904906.1,EEY53288.1"
Stramenopiles-
Phytophthora_capsici_jgi92445,891,1618.98,0,gi|301111654|ref|XP_002904906.1|myot

ubularin-like protein [Phytophthora infestans T30-4] ,"
GO:0016791,GO:0016311,GO:0016787,GO:0004725", "XP_002904906.1,EEY53288.1"
Stramenopiles-
Phytophthora_ramorum_jgi79916,1149,1982.61,0,gi|301111654|ref|XP_002904906.1|myo
tubularin-like protein [Phytophthora infestans T30-4] ,"
GO:0016791,GO:0016311,GO:0016787,GO:0004725", "XP_002904906.1,EEY53288.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi227544,389,635.95,2.11E-
180,gi|219122853|ref|XP_002181752.1|diaminopimelate decarboxylase [Phaeodactylum
tricornutum CCAP 1055/1] ,"
GO:0008836,GO:0009089,GO:0003824", "XP_002181752.1,EEC46966.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219122853,481,993.03,0,gi|219122853|ref|
XP_002181752.1|diaminopimelate decarboxylase [Phaeodactylum tricornutum CCAP
1055/1] , " GO:0008836,GO:0009089,GO:0003824", "XP_002181752.1,EEC46966.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223993801,484,995.727,0,gi|223993801|ref|XP_
002286584.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0008836,GO:0009089,GO:0003824", "XP_002286584.1,EED96225.1"
Stramenopiles-Aureococcus_anophagefferens_jgi39321,464,557.37,1.34E-
156,gi|308813676|ref|XP_003084144.1|diaminopimelate decarboxylase (ISS)
[Ostreococcus tauri] ,"
GO:0008836,GO:0009089,GO:0003824", "XP_003084144.1,CAL58560.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224005430,4494,9383.83,0,gi|224005430|ref|XP_
_002296366.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
GO:0005509, "XP_002296366.1,ACI65083.1"
Stramenopiles-
Phytophthora_sojae_jgi127903,1034,1826.99,0,gi|301103201|ref|XP_002900687.1|cons
erved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0008270,GO:0005622", "XP_002900687.1,EEY60002.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi72156,4237,1122.46,0,gi|224005430|ref|XP_00229636
6.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
GO:0005509, "XP_002296366.1,ACI65083.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224002727,367,733.791,0,gi|224002727|ref|XP_
002291035.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0016021,GO:0016020,GO:0055085", "XP_002291035.1,EED91142.1"
Stramenopiles-Phytophthora_sojae_jgi108485,362,612.838,1.98E-
173,gi|301100672|ref|XP_002899425.1|Ca2 :Cation Antiporter (CaCA) Family
[Phytophthora infestans T30-4] ,"
GO:0008324,GO:0016021,GO:0016020,GO:0055085,GO:0006812", "XP_002899425.1,EEY61785
.1"
Stramenopiles-Phytophthora_ramorum_jgi71942,362,620.542,8.61E-
176,gi|301100672|ref|XP_002899425.1|Ca2 :Cation Antiporter (CaCA) Family
[Phytophthora infestans T30-4] ,"
GO:0008324,GO:0016021,GO:0016020,GO:0055085,GO:0006812", "XP_002899425.1,EEY61785
.1"
Stramenopiles-
Phytophthora_capsici_jgi110993,437,704.131,0,gi|301100672|ref|XP_002899425.1|Ca2
:Cation Antiporter (CaCA) Family [Phytophthora infestans T30-4] ,"
GO:0008324,GO:0016021,GO:0016020,GO:0055085,GO:0006812", "XP_002899425.1,EEY61785
.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224006648,352,692.96,0,"gi|224006648|ref|XP_

002292284.1|calcium/proton exchanger, calcium antiporter [Thalassiosira pseudonana CCMP1335] ", "
GO:0016021,GO:0016020,GO:0055085", "XP_002292284.1,EED90259.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219116302,348,698.738,0,gi|219116302|ref|XP_002178946.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0016021,GO:0016020,GO:0055085", "XP_002178946.1,EEC49644.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi186975,384,461.455,7.59E-128,gi|219116302|ref|XP_002178946.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0016021,GO:0016020,GO:0055085", "XP_002178946.1,EEC49644.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219125724,311,624.394,4.57E-177,gi|219125724|ref|XP_002183124.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002183124.1,EEC45342.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi226887,233,155.221,4.70E-36,gi|223994479|ref|XP_002286923.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002286923.1,EED96564.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224014284,419,868.611,0,gi|224014284|ref|XP_002296805.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002296805.1,EED87006.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224012457,317,656.751,0,gi|224012457|ref|XP_002294881.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002294881.1,EED87661.1"
Stramenopiles-Aureococcus_anophagefferens_jgi62660,247,80.4925,1.63E-13,gi|219129927|ref|XP_002185128.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002185128.1,EEC43260.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219129781,629,1280.39,0,gi|219129781|ref|XP_002185059.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002185059.1,EEC43506.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi179560,207,239.965,1.19E-61,gi|224001800|ref|XP_002290572.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002290572.1,EED92324.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224001800,622,1280.39,0,gi|224001800|ref|XP_002290572.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002290572.1,EED92324.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi206011,1216,1540.4,0,gi|224004696|ref|XP_002295999.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
GO:0016021,GO:0016020,GO:0006812,GO:0015662,GO:0016787,GO:0000166,GO:0005524,GO:0016887,GO:0006754,GO:0003824,GO:0008152,GO:0016820", "XP_002295999.1,ACI64716.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219126433,442,917.916,0,gi|219126433|ref|XP_002183462.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0005524,GO:0006412,GO:0005737,GO:0004812,GO:0006434,GO:0000166,GO:0006418,GO:0004828", "XP_002183462.1,EEC45162.1"
Stramenopiles-
Phytophthora_sojae_jgi144153,497,905.975,0,gi|301108605|ref|XP_002903384.1|seryl-tRNA synthetase [Phytophthora infestans T30-4] , "

GO:0005524,GO:0006412,GO:0005737,GO:0004812,GO:0006434,GO:0000166,GO:0006418,GO:0004828", "XP_002903384.1,EEY55808.1"
Stramenopiles-
Phytophthora_ramorum_jgi75725,504,914.835,0,gi|301108605|ref|XP_002903384.1|seryl-tRNA synthetase [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0006412,GO:0005737,GO:0004812,GO:0006434,GO:0000166,GO:0006418,GO:0004828", "XP_002903384.1,EEY55808.1"
Stramenopiles-Aureococcus_anophagefferens_jgi26929,203,104.375,7.70E-21,gi|260786970|ref|XP_002588529.1|hypothetical protein BRAFLDRAFT_79485 [Branchiostoma floridae] , GO:0004872,"XP_002588529.1,EEN44540.1"
Stramenopiles-Aureococcus_anophagefferens_jgi62223,1307,75.485,4.87E-11,gi|149639273|ref|XP_001507896.1|PREDICTED: hypothetical protein [Ornithorhynchus anatinus],,XP_001507896.1
Stramenopiles-
Fragilariopsis_cylindrus_jgi185193,573,897.116,0,gi|219119306|ref|XP_002180416.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0016874,GO:0006418,GO:0006420,GO:0000166,GO:0005737,GO:0006412,GO:0005524,GO:0004814,GO:0004812", "XP_002180416.1,EEC47824.1"
Stramenopiles-Phytophthora_capsici_jgi20843,416,526.939,1.68E-147,gi|301119857|ref|XP_002907656.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002907656.1,EEY64220.1"
Stramenopiles-
Phytophthora_capsici_jgi3197,542,890.182,0,gi|301119857|ref|XP_002907656.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002907656.1,EEY64220.1"
Stramenopiles-
Phytophthora_sojae_jgi135067,783,991.875,0,gi|301119857|ref|XP_002907656.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002907656.1,EEY64220.1"
Stramenopiles-
Phytophthora_ramorum_jgi79282,610,856.284,0,gi|301119857|ref|XP_002907656.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002907656.1,EEY64220.1"
Stramenopiles-
Phytophthora_ramorum_jgi74787,618,945.266,0,gi|301111304|ref|XP_002904731.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "XP_002904731.1,EEY53113.1"
Stramenopiles-Phytophthora_ramorum_jgi85655,359,465.692,3.35E-129,gi|301111304|ref|XP_002904731.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "XP_002904731.1,EEY53113.1"
Stramenopiles-
Phytophthora_sojae_jgi140823,641,955.281,0,gi|301111304|ref|XP_002904731.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "XP_002904731.1,EEY53113.1"
Stramenopiles-
Phytophthora_capsici_jgi20085,692,969.533,0,gi|301111304|ref|XP_002904731.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"

age-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:
0006810", "XP_002904731.1,EEY53113.1"
Stramenopiles-Aureococcus_anophagefferens_jgi15708,161,110.923,4.72E-
23,gi|47185111|emb|CAF95008.1|unnamed protein product [Tetraodon
nigroviridis],,CAF95008.1
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219129852,870,1786.93,0,gi|219129852|ref
|XP_002185093.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0003723,GO:0009451,GO:0001522,GO:0009982", "XP_002185093.1,EEC43540.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219113940,870,1788.08,0,gi|219113940|ref
|XP_002176153.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0003723,GO:0009451,GO:0001522,GO:0009982", "XP_002176153.1,EEC42860.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi242240,873,488.804,1.39E-
135,gi|219113940|ref|XP_002176153.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] ,"
GO:0003723,GO:0009451,GO:0001522,GO:0009982", "XP_002176153.1,EEC42860.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223997338,1310,2716.41,0,gi|223997338|ref|XP
_002288342.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0008270,GO:0005622", "XP_002288342.1,EED93778.1"
Stramenopiles-Aureococcus_anophagefferens_jgi63253,863,348.977,1.50E-
93,gi|223997338|ref|XP_002288342.1|predicted protein [Thalassiosira pseudonana
CCMP1335] , " GO:0008270,GO:0005622", "XP_002288342.1,EED93778.1"
Stramenopiles-Aureococcus_anophagefferens_jgi66742,1794,417.542,7.91E-
114,gi|224000561|ref|XP_002289953.1|predicted protein [Thalassiosira pseudonana
CCMP1335] ,, "XP_002289953.1,EED93490.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224002789,798,1657.11,0,gi|224002789|ref|XP_
002291066.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0003723,GO:0009451,GO:0001522,GO:0009982", "XP_002291066.1,EED91173.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219109731,798,1675.99,0,gi|219109731|ref
|XP_002176619.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]
,, "XP_002176619.1,EEC51082.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi236841,920,692.189,0,gi|219109731|ref|XP_002176619.1
|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]
,, "XP_002176619.1,EEC51082.1"
Stramenopiles-
Phytophthora_ramorum_jgi80031,810,1280.39,0,gi|301095443|ref|XP_002896822.1|spor
angia induced conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0005509, "XP_002896822.1,EEY66757.1"
Stramenopiles-
Phytophthora_sojae_jgi137985,843,1266.91,0,gi|301095443|ref|XP_002896822.1|spora
ngia induced conserved hypothetical protein [Phytophthora infestans T30-4] ,
GO:0005509, "XP_002896822.1,EEY66757.1"
Stramenopiles-Aureococcus_anophagefferens_jgi63054,6272,513.072,5.33E-
142,gi|145345747|ref|XP_001417362.1|predicted protein [Ostreococcus lucimarinus
CCE9901] , GO:0005509, "XP_001417362.1,ABO95655.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi234116,4550,5243.32,0,gi|224005430|ref|XP_002296366.
1|predicted protein [Thalassiosira pseudonana CCMP1335] ,
GO:0005509, "XP_002296366.1,ACI65083.1"

Stramenopiles-

Phytophthora_capsici_jgi95679,1047,2043.85,0,"gi|301108972|ref|XP_002903567.1|calcium-transporting ATPase 1, endoplasmic reticulum-type, putative [Phytophthora infestans T30-4] ", "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0000166,GO:0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820","XP_002903567.1,EEY55343.1"

Stramenopiles-

Phytophthora_ramorum_jgi71769,1045,1971.44,0,"gi|301108972|ref|XP_002903567.1|calcium-transporting ATPase 1, endoplasmic reticulum-type, putative [Phytophthora infestans T30-4] ", "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0000166,GO:0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820","XP_002903567.1,EEY55343.1"

Stramenopiles-

Phytophthora_sojae_jgi109296,1044,1996.48,0,"gi|301108972|ref|XP_002903567.1|calcium-transporting ATPase 1, endoplasmic reticulum-type, putative [Phytophthora infestans T30-4] ", "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0000166,GO:0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820","XP_002903567.1,EEY55343.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223994413,1015,2085.07,0,gi|223994413|ref|XP_002286890.1|cation transport ATPase [Thalassiosira pseudonana CCMP1335] , "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0000166,GO:0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820","XP_002286890.1,EED96531.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi188142,1242,1193.72,0,gi|219125902|ref|XP_002183209.1|probable serca-type calcium ATPase [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0006811,GO:0006810,GO:0000166,GO:0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820","XP_002183209.1,EEC45427.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219125902,1028,2097.4,0,gi|219125902|ref|XP_002183209.1|probable serca-type calcium ATPase [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0006811,GO:0006810,GO:0000166,GO:0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820","XP_002183209.1,EEC45427.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223997222,966,1981.84,0,gi|223997222|ref|XP_002288284.1|calcium transporting ATPase [Thalassiosira pseudonana CCMP1335] , "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0000166,GO:0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820","XP_002288284.1,EED93720.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224010143,1001,2047.71,0,gi|224010143|ref|XP_002294029.1|cation transporting ATPase [Thalassiosira pseudonana CCMP1335] , "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0000166,GO:0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820","XP_002294029.1,EED88384.1"

Stramenopiles-

Aureococcus_anophagefferens_jgi10071,1030,928.702,0,gi|219125902|ref|XP_002183209.1|probable serca-type calcium ATPase [Phaeodactylum tricornutum CCAP 1055/1]

, "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0006811,GO:
0006810,GO:0000166,GO:0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:001
6820", "XP_002183209.1,EEC45427.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi210916,1059,1119.38,0,"gi|301108972|ref|XP_002903567
.1|calcium-transporting ATPase 1, endoplasmic reticulum-type, putative
[Phytophthora infestans T30-4] ", "
GO:0006816,GO:0016021,GO:0016020,GO:0015662,GO:0006812,GO:0016787,GO:0000166,GO:
0005524,GO:0006754,GO:0003824,GO:0005388,GO:0008152,GO:0016820", "XP_002903567.1,
EEY55343.1"
Stramenopiles-Blastocystis_hominis_tbBHL00001738_1,242,372.474,1.98E-
101,gi|300122119|emb|CBK22693.2|unnamed protein product [Blastocystis hominis], "
GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0043169,GO:0016798,GO:0003824", CB
K22693.2
Stramenopiles-Aureococcus_anophagefferens_jgi66064,1631,251.521,7.64E-
64,gi|188501582|gb|ACD54708.1|beta-D-galactosidase-like protein [Adineta vaga], "
GO:0004565,GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0043169,GO:0016798,GO:
0003824", ACD54708.1
Stramenopiles-
Phytophthora_sojae_jgi155253,1207,820.461,0,"gi|301123859|ref|XP_002909656.1|bet
a-galactosidase, putative [Phytophthora infestans T30-4] ", "
GO:0004565,GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0043169,GO:0016798,GO:
0003824", "XP_002909656.1,EEY58470.1"
Stramenopiles-
Phytophthora_ramorum_jgi96749,1029,768.844,0,"gi|301123859|ref|XP_002909656.1|be
ta-galactosidase, putative [Phytophthora infestans T30-4] ", "
GO:0004565,GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0043169,GO:0016798,GO:
0003824", "XP_002909656.1,EEY58470.1"
Stramenopiles-
Phytophthora_capsici_jgi112967,804,1087.79,0,"gi|301123859|ref|XP_002909656.1|be
ta-galactosidase, putative [Phytophthora infestans T30-4] ", "
GO:0004565,GO:0004553,GO:0016787,GO:0008152,GO:0005975,GO:0043169,GO:0016798,GO:
0003824", "XP_002909656.1,EEY58470.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219126351,492,1025.77,0,gi|219126351|ref
|XP_002183423.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0006004,GO:0005975,GO:0004560,GO:0043169,GO:0003824", "XP_002183423.1,EEC45123
.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219126356,473,985.712,0,gi|219126356|ref
|XP_002183425.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0006004,GO:0005975,GO:0004560,GO:0043169,GO:0003824", "XP_002183425.1,EEC45125
.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219126245,500,1036.94,0,gi|219126245|ref
|XP_002183372.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0006004,GO:0005975,GO:0004560,GO:0043169,GO:0003824", "XP_002183372.1,EEC45072
.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi138084,417,332.798,4.98E-
89,gi|219126356|ref|XP_002183425.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , "
GO:0006004,GO:0005975,GO:0004560,GO:0043169,GO:0003824", "XP_002183425.1,EEC45125
.1"

Stramenopiles-Aureococcus_anophagefferens_jgi1895,392,153.295,4.84E-35,gi|183221259|ref|YP_001839255.1|putative cyclic-nucleotide-gated cation channel [Leptospira biflexa serovar Patoc strain 'Patoc 1 (Paris)'] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "YP_001839255.1,YP_001962905.1,ABZ94327.1,ABZ97979.1"
Stramenopiles-Aureococcus_anophagefferens_jgi65551,1788,190.274,1.82E-45,gi|299469723|emb|CBN76577.1|conserved unknown protein [Ectocarpus siliculosus] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810",CBN76577.1
Stramenopiles-
Phytophthora_sojae_jgi142935,1986,860.136,0,gi|301111924|ref|XP_002905041.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "XP_002905041.1,EEY53423.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223995263,702,1457.58,0,gi|223995263|ref|XP_002287315.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "XP_002287315.1,EED94758.1"
Stramenopiles-Aureococcus_anophagefferens_jgi61436,1310,275.789,2.59E-71,gi|223995263|ref|XP_002287315.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "XP_002287315.1,EED94758.1"
Stramenopiles-Phytophthora_capsici_jgi10033,1992,639.032,1.97E-180,gi|301091504|ref|XP_002895936.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002895936.1,EEY54117.1"
Stramenopiles-Phytophthora_sojae_jgi129135,581,167.933,2.92E-39,gi|113478270|ref|YP_724331.1|cyclic nucleotide-binding protein [Trichodesmium erythraeum IMS101] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "YP_724331.1,ABG53858.1"
Stramenopiles-
Phytophthora_capsici_jgi117481,747,1193.33,0,gi|301100019|ref|XP_002899100.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"
GO:0005249,GO:0016021,GO:0016020,GO:0055085,GO:0006813,GO:0006811,GO:0005216,GO:0006810", "XP_002899100.1,EEY62464.1"
Stramenopiles-Aureococcus_anophagefferens_jgi8067,142,141.739,2.11E-32,gi|299117087|emb|CBN73858.1|Putative sodium calcium exchanger [Ectocarpus siliculosus] ,"
GO:0005509,GO:0016021,GO:0016020,GO:0055085",CBN73858.1
Stramenopiles-Aureococcus_anophagefferens_jgi19015,153,149.828,7.89E-35,gi|300175109|emb|CBK20420.2|unnamed protein product [Blastocystis hominis] ,"
GO:0005509,GO:0016021,GO:0016020,GO:0055085",CBK20420.2
Stramenopiles-
Aureococcus_anophagefferens_jgi38329,1234,1708.35,0,gi|301101902|ref|XP_002900039.1|DNA-directed RNA polymerase II 135 kDa polypeptide [Phytophthora infestans T30-4] ,"
GO:0016779,GO:0016740,GO:0003899,GO:0032549,GO:0006350,GO:0003677", "XP_002900039.1,EEY60666.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi185130,1221,1700.26,0,gi|219111265|ref|XP_002177384.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"

GO:0016779,GO:0016740,GO:0003899,GO:0032549,GO:0006350,GO:0005634,GO:0003677", "X
P_002177384.1,EEC51847.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219111265,1147,2385.91,0,gi|219111265|re
f|XP_002177384.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0016779,GO:0016740,GO:0003899,GO:0032549,GO:0006350,GO:0005634,GO:0003677", "X
P_002177384.1,EEC51847.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224008096,1069,2237.22,0,"gi|224008096|ref|X
P_002293007.1|DNA directed RNA polymerase i, second largest subunit
[Thalassiosira pseudonana CCMP1335] ", "
GO:0016779,GO:0016740,GO:0003899,GO:0006350,GO:0005634,GO:0003677", "XP_002293007
.1,EED89468.1"
Stramenopiles-Phytophthora_brassicae_esgi144599670_2,234,437.573,5.34E-
121,"gi|301119239|ref|XP_002907347.1|DNA-directed RNA polymerase I subunit RPA2,
putative [Phytophthora infestans T30-4] ", "
GO:0016779,GO:0016740,GO:0003899,GO:0032549,GO:0006350,GO:0005634,GO:0003677", "X
P_002907347.1,EEY63911.1"
Stramenopiles-
Phytophthora_ramorum_jgi42703,1145,2283.06,0,"gi|301119239|ref|XP_002907347.1|DN
A-directed RNA polymerase I subunit RPA2, putative [Phytophthora infestans T30-
4] ", "
GO:0016779,GO:0016740,GO:0003899,GO:0032549,GO:0006350,GO:0005634,GO:0003677", "X
P_002907347.1,EEY63911.1"
Stramenopiles-
Phytophthora_sojae_jgi108266,1158,2298.09,0,"gi|301119239|ref|XP_002907347.1|DNA
-directed RNA polymerase I subunit RPA2, putative [Phytophthora infestans T30-4]
", "
GO:0016779,GO:0016740,GO:0003899,GO:0032549,GO:0006350,GO:0005634,GO:0003677", "X
P_002907347.1,EEY63911.1"
Stramenopiles-
Phytophthora_parasitica_esContig432_4,400,779.63,0,"gi|301119239|ref|XP_00290734
7.1|DNA-directed RNA polymerase I subunit RPA2, putative [Phytophthora infestans
T30-4] ", "
GO:0016779,GO:0016740,GO:0003899,GO:0032549,GO:0006350,GO:0005634,GO:0003677", "X
P_002907347.1,EEY63911.1"
Stramenopiles-
Phytophthora_capsici_jgi124178,1169,2313.11,0,"gi|301119239|ref|XP_002907347.1|D
NA-directed RNA polymerase I subunit RPA2, putative [Phytophthora infestans T30-
4] ", "
GO:0016779,GO:0016740,GO:0003899,GO:0032549,GO:0006350,GO:0005634,GO:0003677", "X
P_002907347.1,EEY63911.1"
Stramenopiles-
Aureococcus_anophagefferens_jgi55255,1149,920.228,0,"gi|301119239|ref|XP_0029073
47.1|DNA-directed RNA polymerase I subunit RPA2, putative [Phytophthora
infestans T30-4] ", "
GO:0016779,GO:0016740,GO:0003899,GO:0032549,GO:0006350,GO:0005634,GO:0003677", "X
P_002907347.1,EEY63911.1"
Stramenopiles-Aureococcus_anophagefferens_jgi3378,258,160.614,1.54E-
37,gi|281207787|gb|EFA81967.1|protein kinase [Polysphondylium pallidum PN500] ,"
GO:0016301,GO:0005524,GO:0004672,GO:0000166,GO:0006468,GO:0004674",EFA81967.1
Stramenopiles-Aureococcus_anophagefferens_jgi3980,247,176.792,1.66E-
42,gi|302813132|ref|XP_002988252.1|hypothetical protein SELMODRAFT_10499
[Selaginella moellendorffii] ,"

GO:0005524,GO:0004672,GO:0000166,GO:0006468,GO:0004674", "XP_002988252.1,EFJ10671.1"

Stramenopiles-
Phytophthora capsici_jgi121238,534,835.484,0,"gi|301096480|ref|XP_002897337.1|protein kinase, putative [Phytophthora infestans T30-4] ", "
GO:0016301,GO:0005524,GO:0004672,GO:0000166,GO:0006468,GO:0004674", "XP_002897337.1,EEY65273.1"

Stramenopiles-Phytophthora capsici_jgi108580,194,361.303,2.63E-98,gi|301102897|ref|XP_002900535.1|serine/threonine protein kinase [Phytophthora infestans T30-4] , "
GO:0016301,GO:0005524,GO:0004672,GO:0006468,GO:0004674", "XP_002900535.1,EEY59850.1"

Stramenopiles-Phytophthora ramorum_jgi84879,303,457.218,9.72E-127,gi|301102897|ref|XP_002900535.1|serine/threonine protein kinase [Phytophthora infestans T30-4] , "
GO:0016301,GO:0005524,GO:0004672,GO:0006468,GO:0004674", "XP_002900535.1,EEY59850.1"

Stramenopiles-Phytophthora sojae_jgi145351,283,444.506,5.71E-123,gi|301102897|ref|XP_002900535.1|serine/threonine protein kinase [Phytophthora infestans T30-4] , "
GO:0016301,GO:0005524,GO:0004672,GO:0006468,GO:0004674", "XP_002900535.1,EEY59850.1"

Stramenopiles-
Phytophthora sojae_jgi131471,1989,1634.39,0,gi|301102899|ref|XP_002900536.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "
GO:0005509,GO:0005515", "XP_002900536.1,EEY59851.1"

Stramenopiles-
Phytophthora capsici_jgi100297,622,1157.51,0,gi|301115766|ref|XP_002905612.1|serine/threonine protein kinase [Phytophthora infestans T30-4] , "
GO:0016301,GO:0005524,GO:0004672,GO:0000166,GO:0006468,GO:0004674", "XP_002905612.1,EEY68453.1"

Stramenopiles-
Phytophthora sojae_jgi142455,711,1225.31,0,gi|301115766|ref|XP_002905612.1|serine/threonine protein kinase [Phytophthora infestans T30-4] , "
GO:0016301,GO:0005524,GO:0004672,GO:0000166,GO:0006468,GO:0004674", "XP_002905612.1,EEY68453.1"

Stramenopiles-
Phytophthora ramorum_jgi75533,687,1137.48,0,gi|301115766|ref|XP_002905612.1|serine/threonine protein kinase [Phytophthora infestans T30-4] , "
GO:0016301,GO:0005524,GO:0004672,GO:0000166,GO:0006468,GO:0004674", "XP_002905612.1,EEY68453.1"

Stramenopiles-Phytophthora sojae_jgi109318,264,389.808,1.61E-106,gi|301111286|ref|XP_002904722.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , "
GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002904722.1,EEY53104.1"

Stramenopiles-
Phytophthora ramorum_jgi74792,630,870.537,0,gi|301107526|ref|XP_002902845.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , "
GO:0005216,GO:0005245,GO:0005244,GO:0006816,GO:0016021,GO:0016020,GO:0006811,GO:0006810,GO:0005262,GO:0055085,GO:0005891", "XP_002902845.1,EEY56015.1"

Stramenopiles-
Phytophthora sojae_jgi132791,1641,2760.33,0,gi|301107526|ref|XP_002902845.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , "

GO:0005216,GO:0005245,GO:0005244,GO:0006816,GO:0016021,GO:0016020,GO:0006811,GO:0006810,GO:0005262,GO:0055085,GO:0005891", "XP_002902845.1,EEY56015.1"

Stramenopiles-

Phytophthora_capsici_jgi36518,1640,2800,0,gi|301107526|ref|XP_002902845.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"

GO:0005216,GO:0005245,GO:0005244,GO:0006816,GO:0016021,GO:0016020,GO:0006811,GO:0006810,GO:0005262,GO:0055085,GO:0005891", "XP_002902845.1,EEY56015.1"

Stramenopiles-

Phytophthora_ramorum_jgi79674,489,917.531,0,gi|301107526|ref|XP_002902845.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"

GO:0005216,GO:0005245,GO:0005244,GO:0006816,GO:0016021,GO:0016020,GO:0006811,GO:0006810,GO:0005262,GO:0055085,GO:0005891", "XP_002902845.1,EEY56015.1"

Stramenopiles-

Phytophthora_capsici_jgi121273,750,1307.35,0,gi|301118034|ref|XP_002906745.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] ,"

GO:0005216,GO:0005245,GO:0005244,GO:0006816,GO:0016021,GO:0016020,GO:0006811,GO:0006810,GO:0005262,GO:0055085,GO:0005891", "XP_002906745.1,EEY66146.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi223998927,1491,3060.4,0,gi|223998927|ref|XP_002289136.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"

GO:0005216,GO:0005245,GO:0005244,GO:0006816,GO:0016021,GO:0016020,GO:0006811,GO:0006810,GO:0005262,GO:0055085,GO:0005891", "XP_002289136.1,EED92673.1"

Stramenopiles-

Phytophthora_capsici_jgi117209,830,1161.36,0,"gi|301114771|ref|XP_002999155.1|glutamine-dependent NAD(+) synthetase, putative [Phytophthora infestans T30-4] ",

GO:0006807,GO:0005524,GO:0016810,GO:0009435,GO:0003952", "XP_002999155.1,EEY69301.1"

Stramenopiles-Phytophthora_parasitica_esgi222392215_5,267,414.846,4.00E-114,gi|301111163|ref|XP_002904661.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] ,"

GO:0022891,GO:0016021,GO:0016020,GO:0055085,GO:0006810,GO:0005215", "XP_002904661.1,EEY54030.1"

Stramenopiles-Phytophthora_brassicae_esContig1628_2,310,453.366,1.53E-125,"gi|301111137|ref|XP_002904648.1|sugar transporter, putative [Phytophthora infestans T30-4] ",

GO:0008643,GO:0022891,GO:0016021,GO:0016020,GO:0055085,GO:0006810,GO:0005215", "XP_002904648.1,EEY54017.1"

Stramenopiles-

Phytophthora_ramorum_jgi85416,496,870.152,0,"gi|301111135|ref|XP_002904647.1|sugar transporter, putative [Phytophthora infestans T30-4] ",

GO:0008643,GO:0022891,GO:0016021,GO:0016020,GO:0055085,GO:0006810,GO:0005215", "XP_002904647.1,EEY54016.1"

Stramenopiles-

Phytophthora_ramorum_jgi72326,512,888.641,0,"gi|301111135|ref|XP_002904647.1|sugar transporter, putative [Phytophthora infestans T30-4] ",

GO:0008643,GO:0022891,GO:0016021,GO:0016020,GO:0055085,GO:0006810,GO:0005215", "XP_002904647.1,EEY54016.1"

Stramenopiles-Phytophthora_sojae_jgi135955,206,329.717,1.03E-88,"gi|301111135|ref|XP_002904647.1|sugar transporter, putative [Phytophthora infestans T30-4] ",

GO:0008643,GO:0022891,GO:0016021,GO:0016020,GO:0055085,GO:0006810,GO:0005215", "XP_002904647.1,EEY54016.1"

Stramenopiles-

Phytophthora_capsici_jgi39178,508,874.774,0,"gi|301111135|ref|XP_002904647.1|sugar transporter, putative [Phytophthora infestans T30-4] ",

GO:0008643,GO:0022891,GO:0016021,GO:0016020,GO:0055085,GO:0006810,GO:0005215", "X
P_002904647.1,EEY54016.1"
Stramenopiles-Phytophthora_capsici_jgi27709,206,360.147,8.37E-
98,"gi|301111135|ref|XP_002904647.1|sugar transporter, putative [Phytophthora
infestans T30-4] ", "
GO:0008643,GO:0022891,GO:0016021,GO:0016020,GO:0055085,GO:0006810,GO:0005215", "X
P_002904647.1,EEY54016.1"
Stramenopiles-
Phytophthora_sojae_jgi136061,1602,806.209,0,"gi|301111137|ref|XP_002904648.1|sug
ar transporter, putative [Phytophthora infestans T30-4] ", "
GO:0008643,GO:0022891,GO:0016021,GO:0016020,GO:0055085,GO:0006810,GO:0005215", "X
P_002904648.1,EEY54017.1"
Stramenopiles-
Phytophthora_ramorum_jgi85260,520,901.353,0,"gi|301111137|ref|XP_002904648.1|sug
ar transporter, putative [Phytophthora infestans T30-4] ", "
GO:0008643,GO:0022891,GO:0016021,GO:0016020,GO:0055085,GO:0006810,GO:0005215", "X
P_002904648.1,EEY54017.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219112765,258,527.324,6.07E-
148,gi|219112765|ref|XP_002178134.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , "
GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002178134.1,EEC50948
.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi141982,271,287.345,1.04E-
75,gi|219112765|ref|XP_002178134.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , "
GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002178134.1,EEC50948
.1"
Stramenopiles-Aureococcus_anophagefferens_jgi25442,264,247.669,1.05E-
63,gi|219112765|ref|XP_002178134.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , "
GO:0055114,GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002178134.1,EEC50948
.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi224159,453,438.343,8.19E-
121,gi|224005116|ref|XP_002296209.1|aldo/keto reductase [Thalassiosira
pseudonana CCMP1335] , " GO:0055114,GO:0016491", "XP_002296209.1,ACI64926.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224005116,359,751.125,0,gi|224005116|ref|XP_
002296209.1|aldo/keto reductase [Thalassiosira pseudonana CCMP1335] , "
GO:0055114,GO:0016491", "XP_002296209.1,ACI64926.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi208308,515,400.979,1.91E-
109,gi|219110757|ref|XP_002177130.1|predicted protein [Phaeodactylum tricornutum
CCAP 1055/1] , " GO:0055114,GO:0016491", "XP_002177130.1,EEC51593.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219110757,455,957.592,0,gi|219110757|ref
|XP_002177130.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , "
GO:0055114,GO:0016491", "XP_002177130.1,EEC51593.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224003433,373,780.4,0,gi|224003433|ref|XP_00
2291388.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "
GO:0055114,GO:0016491", "XP_002291388.1,EED91495.1"
Stramenopiles-Aureococcus_anophagefferens_jgi70538,734,348.591,1.54E-
93,gi|156358643|ref|XP_001624626.1|predicted protein [Nematostella vectensis] , "
GO:0016788,GO:0016787,GO:0006397", "XP_001624626.1,EDO32526.1"

Stramenopiles-Phytophthora_ramorum_jgi73888,298,555.444,2.54E-156,"gi|301121318|ref|XP_002908386.1|protein phosphatase 2C, putative [Phytophthora infestans T30-4] ", GO:0003824,"XP_002908386.1,EEY61469.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224010896,267,551.977,2.40E-155,gi|224010896|ref|XP_002294405.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"

GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721","XP_P_002294405.1,EED88239.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi213563,394,335.88,4.88E-90,gi|219111241|ref|XP_002177372.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721","XP_P_002177372.1,EEC51835.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223994799,302,628.632,2.21E-178,gi|223994799|ref|XP_002287083.1|hypothetical protein THAPSDRAFT_31637 [Thalassiosira pseudonana CCMP1335] ,"

GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721","XP_P_002287083.1,EED96724.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219126266,320,663.685,0,gi|219126266|ref|XP_002183382.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721","XP_P_002183382.1,EEC45082.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi151473,257,273.478,1.40E-71,gi|219126266|ref|XP_002183382.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"

GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721","XP_P_002183382.1,EEC45082.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224010523,273,567,6.70E-160,gi|224010523|ref|XP_002294219.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"

GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721","XP_P_002294219.1,EED88574.1"

Stramenopiles-Phytophthora_sojae_jgi140041,347,584.719,5.18E-165,"gi|301105313|ref|XP_002901740.1|protein phosphatase 2C, putative [Phytophthora infestans T30-4] ",

GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721","XP_P_002901740.1,EEY57130.1"

Stramenopiles-Phytophthora_ramorum_jgi74456,345,609.757,1.44E-172,"gi|301105313|ref|XP_002901740.1|protein phosphatase 2C, putative [Phytophthora infestans T30-4] ",

GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721","XP_P_002901740.1,EEY57130.1"

Stramenopiles-Phytophthora_capsici_jgi107781,300,555.058,3.02E-156,"gi|301105313|ref|XP_002901740.1|protein phosphatase 2C, putative [Phytophthora infestans T30-4] ",

GO:0046872,GO:0008287,GO:0016787,GO:0006470,GO:0003824,GO:0004722,GO:0004721","XP_P_002901740.1,EEY57130.1"

Stramenopiles-Phytophthora_sojae_jgi129945,1842,3495.67,0,gi|301114967|ref|XP_002999253.1|myosin-like protein [Phytophthora infestans T30-4] ,"

GO:0005524,GO:0000166,GO:0016459,GO:0003774","XP_002999253.1,EEY69399.1"

Stramenopiles-Aureococcus_anophagefferens_jgi26057,717,605.52,7.51E-171,"gi|298710270|emb|CBJ31893.1|myosin I, high molecular weight-Acanthamoeba sp

[Ectocarpus siliculosus]" , "

GO:0005524,GO:0005856,GO:0000166,GO:0016459,GO:0003774" , CBJ31893.1

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224015608,1245,2587.76,0,gi|224015608|ref|XP_002297455.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "

GO:0003723,GO:0006278,GO:0003964" , "XP_002297455.1,EED86272.1"

Stramenopiles-Aureococcus_anophagefferens_jgi70767,1641,206.068,2.91E-50,gi|119486609|ref|ZP_01620659.1|hypothetical protein L8106_12700 [Lyngbya sp. PCC 8106] , , "ZP_01620659.1,EAW37358.1"

Stramenopiles-Aureococcus_anophagefferens_jgi67927,1406,184.111,1.01E-43,gi|298705074|emb|CBJ28533.1|conserved unknown protein [Ectocarpus siliculosus] , , CBJ28533.1

Stramenopiles-Aureococcus_anophagefferens_jgi64385,3255,188.348,1.41E-44,gi|298709658|emb|CBJ31466.1|conserved unknown protein [Ectocarpus siliculosus] , , CBJ31466.1

Stramenopiles-Phytophthora_capsici_jgi34886,1017,424.091,4.96E-116,gi|301101421|ref|XP_002899799.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002899799.1,EEY60853.1"

Stramenopiles-Phytophthora_sojae_jgi143184,1135,405.986,1.40E-110,gi|301101421|ref|XP_002899799.1|conserved hypothetical protein [Phytophthora infestans T30-4] , , "XP_002899799.1,EEY60853.1"

Stramenopiles-Phytophthora_capsici_jgi80704,271,422.55,2.19E-116,gi|301116683|ref|XP_002906070.1|sporangia induced hypothetical protein [Phytophthora infestans T30-4] , , "XP_002906070.1,EEY67422.1"

Stramenopiles-Phytophthora_ramorum_jgi79127,410,493.041,2.46E-137,gi|301116683|ref|XP_002906070.1|sporangia induced hypothetical protein [Phytophthora infestans T30-4] , , "XP_002906070.1,EEY67422.1"

Stramenopiles-Phytophthora_sojae_jgi137707,400,495.738,4.14E-138,gi|301116683|ref|XP_002906070.1|sporangia induced hypothetical protein [Phytophthora infestans T30-4] , , "XP_002906070.1,EEY67422.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi238225,326,79.7221,5.21E-13,gi|119945975|ref|YP_943655.1|hypothetical protein Ping_2315 [Psychromonas ingrahamii 37] , , "YP_943655.1,ABM04056.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219111439,282,588.571,2.47E-166,gi|219111439|ref|XP_002177471.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002177471.1,EEC51934.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224012731,283,587.8,4.31E-166,gi|224012731|ref|XP_002295018.1|predicted protein [Thalassiosira pseudonana CCMP1335] , "

GO:0055114,GO:0016705,GO:0005506,GO:0031418" , "XP_002295018.1,EED87798.1"

Stramenopiles-

Phytophthora_capsici_jgi22227,509,715.301,0,gi|301106386|ref|XP_002902276.1|lactation elevated protein 1 [Phytophthora infestans T30-4] ,

GO:0005524,"XP_002902276.1,EEY56948.1"

Stramenopiles-

Phytophthora_sojae_jgi141751,511,747.273,0,gi|301106386|ref|XP_002902276.1|lactation elevated protein 1 [Phytophthora infestans T30-4] ,

GO:0005524,"XP_002902276.1,EEY56948.1"

Stramenopiles-

Phytophthora_sojae_jgi114824,382,660.603,0,gi|301107600|ref|XP_002902882.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,

GO:0005524,"XP_002902882.1,EEY56052.1"

Stramenopiles-Phytophthora_ramorum_jgi48733,331,604.364,6.51E-171,gi|301107600|ref|XP_002902882.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005524,"XP_002902882.1,EEY56052.1"

Stramenopiles-Phytophthora_capsici_jgi31678,461,808.52,0,gi|301107600|ref|XP_002902882.1|conserved hypothetical protein [Phytophthora infestans T30-4] , GO:0005524,"XP_002902882.1,EEY56052.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219125067,378,778.089,0,gi|219125067|ref|XP_002182810.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , GO:0005524,"XP_002182810.1,EEC45546.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi149389,382,395.201,6.04E-108,gi|219125067|ref|XP_002182810.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , GO:0005524,"XP_002182810.1,EEC45546.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224000303,352,735.717,0,gi|224000303|ref|XP_002289824.1|predicted protein [Thalassiosira pseudonana CCMP1335] , GO:0005524,"XP_002289824.1,EED93361.1"

Stramenopiles-Phytophthora_sojae_jgi137569,516,642.499,0,gi|301123229|ref|XP_002909341.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] , GO:0055085,"XP_002909341.1,EEY58155.1"

Stramenopiles-Phytophthora_ramorum_jgi96427,655,651.358,0,gi|301123229|ref|XP_002909341.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] , GO:0055085,"XP_002909341.1,EEY58155.1"

Stramenopiles-Phytophthora_sojae_jgi137568,531,664.07,0,gi|301123229|ref|XP_002909341.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] , GO:0055085,"XP_002909341.1,EEY58155.1"

Stramenopiles-Phytophthora_ramorum_jgi82740,518,798.89,0,gi|301123229|ref|XP_002909341.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] , GO:0055085,"XP_002909341.1,EEY58155.1"

Stramenopiles-Phytophthora_sojae_jgi137567,523,816.609,0,gi|301123229|ref|XP_002909341.1|Major Facilitator Superfamily (MFS) [Phytophthora infestans T30-4] , GO:0055085,"XP_002909341.1,EEY58155.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223998945,546,1126.31,0,gi|223998945|ref|XP_002289145.1|predicted protein [Thalassiosira pseudonana CCMP1335] , , "XP_002289145.1,EED92682.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219117005,543,1120.15,0,gi|219117005|ref|XP_002179297.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002179297.1,EEC49120.1"

Stramenopiles-Aureococcus_anophagefferens_jgi65191,591,293.123,6.98E-77,gi|298714004|emb|CBJ27236.1|conserved unknown protein [Ectocarpus siliculosus] , , CBJ27236.1

Stramenopiles-Phytophthora_ramorum_jgi79554,383,620.928,7.90E-176,gi|301113894|ref|XP_002998717.1|Drug/Metabolite Transporter (DMT) Superfamily [Phytophthora infestans T30-4] , "GO:0008643,GO:0016021,GO:0005351,GO:0000139", "XP_002998717.1,EEY70070.1"

Stramenopiles-Phytophthora_sojae_jgi141239,312,526.168,1.59E-147,gi|301113894|ref|XP_002998717.1|Drug/Metabolite Transporter (DMT)

Superfamily [Phytophthora infestans T30-4] ,"
GO:0008643,GO:0016021,GO:0005351,GO:0000139", "XP_002998717.1,EEY70070.1"
Stramenopiles-Phytophthora capsici_jgi105487,385,622.854,2.19E-
176,gi|301113894|ref|XP_002998717.1|Drug/Metabolite Transporter (DMT)
Superfamily [Phytophthora infestans T30-4] ,"
GO:0008643,GO:0016021,GO:0005351,GO:0000139", "XP_002998717.1,EEY70070.1"
Stramenopiles-Fragilariopsis cylindrus_jgi233370,649,155.221,2.55E-
35,gi|284036172|ref|YP_003386102.1|glycoside hydrolase family 28 [Spirosoma
linguale DSM 74] , "
GO:0016787,GO:0005975,GO:0004650", "YP_003386102.1,ADB37303.1"
Stramenopiles-Aureococcus anophagefferens_jgi65104,916,153.295,1.33E-
34,gi|225464581|ref|XP_002273669.1|PREDICTED: hypothetical protein [Vitis
vinifera],,XP_002273669.1
Stramenopiles-Fragilariopsis cylindrus_jgi179730,443,199.134,9.48E-
49,gi|297844882|ref|XP_002890322.1|glycoside hydrolase family 28 protein
[Arabidopsis lyrata subsp. lyrata] , "
GO:0016787,GO:0008152,GO:0007047,GO:0005975,GO:0016798,GO:0004650", "XP_002890322
.1,EFH66581.1"
Stramenopiles-
Phytophthora sojae_jgi135207,1852,3172.87,0,gi|301089940|ref|XP_002895229.1|myof
erlin-like protein [Phytophthora infestans T30-4] ,, "XP_002895229.1,EEY59281.1"
Stramenopiles-
Phytophthora ramorum_jgi82063,1356,1588.16,0,gi|301106296|ref|XP_002902231.1|con
served hypothetical protein [Phytophthora infestans T30-4] , "
GO:0006355,GO:0003676,GO:0003677", "XP_002902231.1,EEY56903.1"
Stramenopiles-
Phytophthora sojae_jgi138371,1366,1704.49,0,gi|301106296|ref|XP_002902231.1|cons
erved hypothetical protein [Phytophthora infestans T30-4] , "
GO:0006355,GO:0003676,GO:0003677", "XP_002902231.1,EEY56903.1"
Stramenopiles-
Phytophthora capsici_jgi115881,869,1076.23,0,gi|301106296|ref|XP_002902231.1|con
served hypothetical protein [Phytophthora infestans T30-4] , "
GO:0006355,GO:0003676,GO:0003677", "XP_002902231.1,EEY56903.1"
Stramenopiles-
Phaeodactylum tricorutum_CCAP_1055/1_gi219119668,1240,2543.84,0,gi|219119668|re
f|XP_002180589.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , "
GO:0006355,GO:0003676,GO:0003677", "XP_002180589.1,EEC47997.1"
Stramenopiles-Aureococcus anophagefferens_jgi70872,3584,553.132,2.25E-
154,gi|193213949|ref|YP_001995148.1|Fibronectin type III domain protein
[Chloroherpeton thalassium ATCC 35110] ,, "YP_001995148.1,ACF12701.1"
Stramenopiles-Aureococcus anophagefferens_jgi62682,2990,147.517,2.33E-
32,"gi|291237909|ref|XP_002738875.1|PREDICTED: predicted protein-like, partial
[Saccoglossus kowalevskii]",,XP_002738875.1
Stramenopiles-Aureococcus anophagefferens_jgi71856,2102,142.124,6.79E-
31,gi|298710187|emb|CBJ26262.1|conserved unknown protein [Ectocarpus
siliculosus], " GO:0030154,GO:0016020",CBJ26262.1
Stramenopiles-
Phytophthora sojae_jgi128893,1082,1765.36,0,gi|301116828|ref|XP_002906142.1|cons
erved hypothetical protein [Phytophthora infestans T30-4] , "
GO:0005525,GO:0003924", "XP_002906142.1,EEY65543.1"
Stramenopiles-
Phytophthora ramorum_jgi77912,1056,1697.56,0,gi|301116828|ref|XP_002906142.1|con
served hypothetical protein [Phytophthora infestans T30-4] , "
GO:0005525,GO:0003924", "XP_002906142.1,EEY65543.1"

Stramenopiles-Aureococcus_anophagefferens_jgi70671,1116,266.929,1.02E-68,gi|301116828|ref|XP_002906142.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0005525,GO:0003924", "XP_002906142.1,EEY65543.1"

Stramenopiles-Phytophthora_sojae_jgi156701,279,347.821,8.15E-94,"gi|301114425|ref|XP_002998982.1|tRNA (guanine-N(7)-)-methyltransferase, putative [Phytophthora infestans T30-4] ", " GO:0008168,GO:0006400,GO:0016740,GO:0008176", "XP_002998982.1,EEY69128.1"

Stramenopiles-Phytophthora_ramorum_jgi95818,279,348.591,4.18E-94,"gi|301114425|ref|XP_002998982.1|tRNA (guanine-N(7)-)-methyltransferase, putative [Phytophthora infestans T30-4] ", " GO:0008168,GO:0006400,GO:0016740,GO:0008176", "XP_002998982.1,EEY69128.1"

Stramenopiles-Phytophthora_capsici_jgi119087,267,350.903,7.28E-95,"gi|301114425|ref|XP_002998982.1|tRNA (guanine-N(7)-)-methyltransferase, putative [Phytophthora infestans T30-4] ", " GO:0008168,GO:0006400,GO:0016740,GO:0008176", "XP_002998982.1,EEY69128.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223999641,253,523.087,1.07E-146,gi|223999641|ref|XP_002289493.1|methyltransferase [Thalassiosira pseudonana CCMP1335] , " GO:0008168,GO:0006400,GO:0016740,GO:0008176", "XP_002289493.1,EED93030.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219122557,245,505.753,1.76E-141,gi|219122557|ref|XP_002181609.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0006400,GO:0008176", "XP_002181609.1,EEC46823.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi151939,234,299.671,1.57E-79,gi|219122557|ref|XP_002181609.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , " GO:0006400,GO:0008176", "XP_002181609.1,EEC46823.1"

Stramenopiles-Phytophthora_ramorum_jgi78884,945,1616.67,0,gi|301105773|ref|XP_002901970.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "XP_002901970.1,EEY57360.1"

Stramenopiles-Phytophthora_capsici_jgi33482,958,1638.24,0,gi|301105773|ref|XP_002901970.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "XP_002901970.1,EEY57360.1"

Stramenopiles-Phytophthora_sojae_jgi130424,1892,1584.31,0,gi|301100744|ref|XP_002899461.1|WD repeat protein 35 [Phytophthora infestans T30-4] , GO:0005488, "XP_002899461.1,EEY61821.1"

Stramenopiles-Phytophthora_ramorum_jgi79800,1118,1644.4,0,gi|301091307|ref|XP_002895841.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "XP_002895841.1,EEY54604.1"

Stramenopiles-Phytophthora_capsici_jgi20545,866,1369.76,0,gi|301091307|ref|XP_002895841.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "XP_002895841.1,EEY54604.1"

Stramenopiles-Phytophthora_sojae_jgi141544,872,1542.71,0,gi|301102506|ref|XP_002900340.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "XP_002900340.1,EEY60133.1"

Stramenopiles-Phytophthora_ramorum_jgi84999,864,1540.78,0,gi|301102506|ref|XP_002900340.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "XP_002900340.1,EEY60133.1"

Stramenopiles-

Phytophthora_sojae_jgi132856,1035,807.749,0,gi|301107632|ref|XP_002902898.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002902898.1,EEY56068.1"

Stramenopiles-Phytophthora_capsici_jgi832,742,574.318,1.80E-

161,gi|301091307|ref|XP_002895841.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"XP_002895841.1,EEY54604.1"

Stramenopiles-

Phytophthora_sojae_jgi142078,1223,1059.67,0,gi|301093131|ref|XP_002997414.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,,"

GO:0008270,GO:0005622", "XP_002997414.1,EEY68722.1"

Stramenopiles-

Phytophthora_capsici_jgi92769,773,1446.41,0,"gi|301116894|ref|XP_002906175.1|Cullin family protein, putative [Phytophthora infestans T30-4] ",,"

GO:0031461,GO:0031625,GO:0006511", "XP_002906175.1,EEY65576.1"

Stramenopiles-

Phytophthora_sojae_jgi109251,759,1387.09,0,"gi|301113194|ref|XP_002998367.1|Cullin family protein, putative [Phytophthora infestans T30-4] ",,"

GO:0031461,GO:0006281,GO:0031625,GO:0004518,GO:0006511,GO:0005622", "XP_002998367.1,EEY69720.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi169868,763,1071.23,0,gi|219125259|ref|XP_002182902.1|CULLin protein 3 [Phaeodactylum tricornutum CCAP 1055/1] ,,"

GO:0031461,GO:0031625,GO:0006511", "XP_002182902.1,EEC45638.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219125259,762,1585.85,0,gi|219125259|ref|XP_002182902.1|CULLin protein 3 [Phaeodactylum tricornutum CCAP 1055/1] ,,"

GO:0031461,GO:0031625,GO:0006511", "XP_002182902.1,EEC45638.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224012136,742,1536.16,0,gi|224012136|ref|XP_002294721.1|cullin family-like protein [Thalassiosira pseudonana CCMP1335] ,,"

GO:0031461,GO:0031625,GO:0006511", "XP_002294721.1,EED88081.1"

Stramenopiles-

Aureococcus_anophagefferens_jgi70316,751,825.469,0,gi|298709420|emb|CBJ49233.1|conserved unknown protein [Ectocarpus siliculosus],"

GO:0031461,GO:0031625,GO:0006511", "CBJ49233.1"

Stramenopiles-

Phytophthora_ramorum_jgi71375,756,1441.4,0,"gi|301112495|ref|XP_002998018.1|Cullin family protein, putative [Phytophthora infestans T30-4] ",,"

GO:0031461,GO:0031625,GO:0006511", "XP_002998018.1,EEY70364.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224002625,520,1084.32,0,gi|224002625|ref|XP_002290984.1|predicted protein [Thalassiosira pseudonana CCMP1335]

,,"XP_002290984.1,EED91091.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi209324,560,544.273,1.51E-

152,gi|219111615|ref|XP_002177559.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002177559.1,EEC50373.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219111615,475,992.645,0,gi|219111615|ref|XP_002177559.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1]

,,"XP_002177559.1,EEC50373.1"

Stramenopiles-

Phytophthora_sojae_jgi141649,480,860.907,0,gi|301108013|ref|XP_002903088.1|conserved hypothetical protein [Phytophthora infestans T30-4]

,,"XP_002903088.1,EEY55512.1"

Stramenopiles-

Phytophthora_ramorum_jgi75207,472,869.381,0,gi|301108013|ref|XP_002903088.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002903088.1,EEY55512.1"

Stramenopiles-

Phytophthora_capsici_jgi35854,470,853.973,0,gi|301108013|ref|XP_002903088.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002903088.1,EEY55512.1"

Stramenopiles-

Phytophthora_sojae_jgi141565,675,929.858,0,gi|301102536|ref|XP_002900355.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002900355.1,EEY60148.1"

Stramenopiles-

Phytophthora_ramorum_jgi73103,537,805.053,0,gi|301114953|ref|XP_002999246.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002999246.1,EEY69392.1"

Stramenopiles-

Phytophthora_ramorum_jgi80015,459,848.581,0,gi|301095375|ref|XP_002896788.1|conserved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002896788.1,EEY66723.1"

Stramenopiles-

Phytophthora_ramorum_jgi71107,512,1011.52,0,"gi|301118717|ref|XP_002907086.1|propionyl-CoA carboxylase beta chain, mitochondrial precursor [Phytophthora infestans T30-4] ", "
GO:0016874,GO:0009317,GO:0006633,GO:0003989", "XP_002907086.1,EEY63650.1"

Stramenopiles-

Phytophthora_capsici_jgi37913,543,1052.35,0,"gi|301118717|ref|XP_002907086.1|propionyl-CoA carboxylase beta chain, mitochondrial precursor [Phytophthora infestans T30-4] ", "
GO:0016874,GO:0009317,GO:0006633,GO:0003989", "XP_002907086.1,EEY63650.1"

Stramenopiles-

Phytophthora_sojae_jgi109606,511,1007.28,0,"gi|301118717|ref|XP_002907086.1|propionyl-CoA carboxylase beta chain, mitochondrial precursor [Phytophthora infestans T30-4] ", "
GO:0016874,GO:0009317,GO:0006633,GO:0003989", "XP_002907086.1,EEY63650.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219118993,581,1207.2,0,gi|219118993|ref|XP_002180263.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,
GO:0016874,"XP_002180263.1,EEC48454.1"

Stramenopiles-

Fragilariopsis_cylindrus_jgi167310,576,867.455,0,gi|219118993|ref|XP_002180263.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,
GO:0016874,"XP_002180263.1,EEC48454.1"

Stramenopiles-Blastocystis_hominis_tbBHL00001687_1,382,88.5817,1.37E-

15,gi|301105150|ref|XP_002901659.1|choline transporter-like protein [Phytophthora infestans T30-4] , "
GO:0016021,GO:0016020", "XP_002901659.1,EEY58715.1"

Stramenopiles-

Phytophthora_ramorum_jgi76250,743,1273.84,0,gi|301105150|ref|XP_002901659.1|choline transporter-like protein [Phytophthora infestans T30-4] , "
GO:0016021,GO:0016020", "XP_002901659.1,EEY58715.1"

Stramenopiles-

Phytophthora_sojae_jgi141480,748,1269.6,0,gi|301105150|ref|XP_002901659.1|choline transporter-like protein [Phytophthora infestans T30-4] , "
GO:0016021,GO:0016020", "XP_002901659.1,EEY58715.1"

Stramenopiles-

Phytophthora capsici_jgi20394,501,851.277,0,gi|301105150|ref|XP_002901659.1|choline transporter-like protein [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020", "XP_002901659.1,EEY58715.1"

Stramenopiles-

Phytophthora ramorum_jgi80623,792,1201.81,0,gi|301107706|ref|XP_002902935.1|choline transporter-like protein [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020", "XP_002902935.1,EEY56105.1"

Stramenopiles-

Phytophthora ramorum_jgi85821,814,1234.55,0,gi|301107706|ref|XP_002902935.1|choline transporter-like protein [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020", "XP_002902935.1,EEY56105.1"

Stramenopiles-

Phytophthora capsici_jgi120310,743,971.074,0,gi|301107706|ref|XP_002902935.1|choline transporter-like protein [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020", "XP_002902935.1,EEY56105.1"

Stramenopiles-

Phytophthora sojae_jgi131651,820,1240.33,0,gi|301107706|ref|XP_002902935.1|choline transporter-like protein [Phytophthora infestans T30-4] ,"
GO:0016021,GO:0016020", "XP_002902935.1,EEY56105.1"

Stramenopiles-

Phytophthora sojae_jgi134863,660,1093.95,0,gi|301117904|ref|XP_002906680.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0032313,GO:0005622,GO:0005097", "XP_002906680.1,EEY66081.1"

Stramenopiles-

Phytophthora capsici_jgi20617,646,1056.97,0,gi|301117904|ref|XP_002906680.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0032313,GO:0005622,GO:0005097", "XP_002906680.1,EEY66081.1"

Stramenopiles-

Phytophthora ramorum_jgi84807,661,1077,0,gi|301117904|ref|XP_002906680.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0032313,GO:0005622,GO:0005097", "XP_002906680.1,EEY66081.1"

Stramenopiles-Phytophthora sojae_jgi137108,324,508.834,3.22E-142,gi|301101808|ref|XP_002899992.1|putative RabGAP/TBC domain-containing protein [Phytophthora infestans T30-4] ,"
GO:0032313,GO:0005622,GO:0005097", "XP_002899992.1,EEY60619.1"

Stramenopiles-

Phytophthora ramorum_jgi96136,397,679.478,0,gi|301112821|ref|XP_002998181.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0032313,GO:0005622,GO:0005097", "XP_002998181.1,EEY70527.1"

Stramenopiles-

Phytophthora sojae_jgi138679,557,821.617,0,gi|301112821|ref|XP_002998181.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0032313,GO:0005622,GO:0005097", "XP_002998181.1,EEY70527.1"

Stramenopiles-Phytophthora brassicae_esContig876_2,159,219.935,6.89E-56,gi|301104156|ref|XP_002901163.1|FKBP-type peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002901163.1,XP_002907146.1,EEY59149.1,EEY63710.1"

Stramenopiles-Phytophthora ramorum_jgi71104,109,215.312,1.66E-54,gi|301104156|ref|XP_002901163.1|FKBP-type peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002901163.1,XP_002907146.1,EEY59149.1,EEY63710.1"

Stramenopiles-Phytophthora ramorum_jgi71104,109,215.312,1.66E-54,gi|301104156|ref|XP_002901163.1|FKBP-type peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002901163.1,XP_002907146.1,EEY59149.1,EEY63710.1"

Stramenopiles-Phytophthora ramorum_jgi71104,109,215.312,1.66E-54,gi|301104156|ref|XP_002901163.1|FKBP-type peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ,"
GO:0003755,GO:0006457,GO:0016853", "XP_002901163.1,XP_002907146.1,EEY59149.1,EEY63710.1"

Stramenopiles-Phytophthora_sojae_jgi108555,109,217.624,2.95E-55,"gi|301104156|ref|XP_002901163.1|FKBP-type peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ","GO:0003755,GO:0006457,GO:0016853","XP_002901163.1,XP_002907146.1,EEY59149.1,EEY63710.1"

Stramenopiles-Phytophthora_capsici_jgi93234,109,221.09,2.83E-56,"gi|301104156|ref|XP_002901163.1|FKBP-type peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ","GO:0003755,GO:0006457,GO:0016853","XP_002901163.1,XP_002907146.1,EEY59149.1,EEY63710.1"

Stramenopiles-Phytophthora_sojae_jgi121523,316,569.696,1.39E-160,"gi|301118336|ref|XP_002906896.1|peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ","GO:0005488,GO:0003755,GO:0006457,GO:0016853","XP_002906896.1,EEY66297.1"

Stramenopiles-Phytophthora_capsici_jgi121867,480,908.672,0,"gi|301118336|ref|XP_002906896.1|peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ","GO:0005488,GO:0003755,GO:0006457,GO:0016853","XP_002906896.1,EEY66297.1"

Stramenopiles-Phytophthora_brassicae_esContig1667_1,527,880.167,0,"gi|301118336|ref|XP_002906896.1|peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ","GO:0005488,GO:0003755,GO:0006457,GO:0016853","XP_002906896.1,EEY66297.1"

Stramenopiles-Phytophthora_ramorum_jgi84236,289,530.02,1.14E-148,"gi|301118336|ref|XP_002906896.1|peptidyl-prolyl cis-trans isomerase, putative [Phytophthora infestans T30-4] ","GO:0005488,GO:0003755,GO:0006457,GO:0016853","XP_002906896.1,EEY66297.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223993147,483,996.112,0,"gi|223993147|ref|XP_002286257.1|predicted protein [Thalassiosira pseudonana CCMP1335] ","GO:0005488,GO:0003755,GO:0006457,GO:0016853","XP_002286257.1,EED95898.1"

Stramenopiles-Aureococcus_anophagefferens_jgi36393,428,217.238,2.62E-54,"gi|167521233|ref|XP_001744955.1|hypothetical protein [Monosiga brevicollis MX1] ","GO:0005488,GO:0006457","XP_001744955.1,EDQ90188.1"

Stramenopiles-Phytophthora_sojae_jgi128805,880,1519.98,0,"gi|301096035|ref|XP_002897116.1|phospholipase D; Pi-TM-PLD [Phytophthora infestans T30-4] ","GO:0008152,GO:0003824","XP_002897116.1,EEY65487.1"

Stramenopiles-Phytophthora_ramorum_jgi81941,871,1533.08,0,"gi|301096035|ref|XP_002897116.1|phospholipase D; Pi-TM-PLD [Phytophthora infestans T30-4] ","GO:0008152,GO:0003824","XP_002897116.1,EEY65487.1"

Stramenopiles-Phytophthora_ramorum_jgi83803,512,618.616,5.77E-175,"gi|301102536|ref|XP_002900355.1|conserved hypothetical protein [Phytophthora infestans T30-4] ","XP_002900355.1,EEY60148.1"

Stramenopiles-Phytophthora_ramorum_jgi84987,315,393.275,1.89E-107,"gi|301102536|ref|XP_002900355.1|conserved hypothetical protein [Phytophthora infestans T30-4] ","XP_002900355.1,EEY60148.1"

Stramenopiles-Phytophthora_sojae_jgi129939,553,853.203,0,"gi|301114953|ref|XP_002999246.1|conserved hypothetical protein [Phytophthora infestans T30-4] ","XP_002999246.1,EEY69392.1"

Stramenopiles-Phytophthora_capsici_jgi23378,570,905.205,0,"gi|301114953|ref|XP_002999246.1|conserved hypothetical protein [Phytophthora infestans T30-4] ","XP_002999246.1,EEY69392.1"

Stramenopiles-

Phaeodactylum_tricornutum_CCAP_1055/1_gi219128655,560,1139.79,0,gi|219128655|ref|XP_002184523.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] , , "XP_002184523.1,EEC43922.1"

Stramenopiles-Phytophthora_brassicae_esContig1574_3,224,337.035,8.98E-91,gi|301103137|ref|XP_002900655.1|caltractin [Phytophthora infestans T30-4] , "GO:0003676,GO:0005524,GO:0005509,GO:0008026", "XP_002900655.1,EEY59970.1"

Stramenopiles-Phytophthora_sojae_jgi108216,173,333.569,4.66E-90,gi|301103137|ref|XP_002900655.1|caltractin [Phytophthora infestans T30-4] , "GO:0003676,GO:0005524,GO:0005509,GO:0008026", "XP_002900655.1,EEY59970.1"

Stramenopiles-Phytophthora_parasitica_esContig32_3,378,343.199,2.73E-92,gi|301103137|ref|XP_002900655.1|caltractin [Phytophthora infestans T30-4] , "GO:0003676,GO:0005524,GO:0005509,GO:0008026", "XP_002900655.1,EEY59970.1"

Stramenopiles-Aureococcus_anophagefferens_jgi34189,198,96.6709,1.48E-18,gi|302850021|ref|XP_002956539.1|centrin [Volvox carteri f. nagariensis] , "GO:0003676,GO:0005524,GO:0005509,GO:0008026", "XP_002956539.1,EFJ42476.1"

Stramenopiles-Aureococcus_anophagefferens_jgi36419,150,295.049,1.63E-78,gi|189081811|sp|A8CEP3.1|CALM_SACJAREcName: Full=Calmodulin; Short=CaM , GO:0005509, "A8CEP3.1,BAF80878.1,CBJ33511.1"

Stramenopiles-Aureococcus_anophagefferens_jgi58710,150,295.049,1.63E-78,gi|189081811|sp|A8CEP3.1|CALM_SACJAREcName: Full=Calmodulin; Short=CaM , GO:0005509, "A8CEP3.1,BAF80878.1,CBJ33511.1"

Stramenopiles-Sargassum_binderi_esContig81_2,643,308.916,1.10E-81,gi|189081811|sp|A8CEP3.1|CALM_SACJAREcName: Full=Calmodulin; Short=CaM , GO:0005509, "A8CEP3.1,BAF80878.1,CBJ33511.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224004208,149,295.434,1.13E-78,gi|224004208|ref|XP_002295755.1|calmodulin [Thalassiosira pseudonana CCMP1335] , GO:0005509, "XP_002295755.1,ACI64472.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi166325,150,213.001,8.15E-54,gi|124809127|ref|XP_001348497.1|calmodulin [Plasmodium falciparum 3D7] , GO:0005509, "XP_001348497.1,P24044.4,P62203.2,AAN36936.1,AAA29510.1,AAA29508.1"

Stramenopiles-Phytophthora_capsici_jgi104184,302,556.214,1.42E-156,gi|301100728|ref|XP_002899453.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "GO:0035091,GO:0007154,GO:0005515", "XP_002899453.1,EEY61813.1"

Stramenopiles-Aureococcus_anophagefferens_jgi64548,1087,154.836,4.92E-35,gi|298713385|emb|CBJ33597.1|conserved unknown protein [Ectocarpus siliculosus] , , CBJ33597.1

Stramenopiles-

Fragilariopsis_cylindrus_jgi156478,696,697.967,0,gi|224002190|ref|XP_002290767.1|structure specific recognition protein 1 [Thalassiosira pseudonana CCMP1335] , "GO:0005634,GO:0003677", "XP_002290767.1,EED92519.1"

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224002190,765,1568.52,0,gi|224002190|ref|XP_002290767.1|structure specific recognition protein 1 [Thalassiosira pseudonana CCMP1335] , "GO:0005634,GO:0003677", "XP_002290767.1,EED92519.1"

Stramenopiles-Phytophthora_brassicae_esContig757_3,296,356.295,2.13E-96,gi|301097589|ref|XP_002897889.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "GO:0005634,GO:0003677", "XP_002897889.1,EEY64689.1"

Stramenopiles-Phytophthora_ramorum_jgi73033,212,358.992,2.02E-97,gi|301097589|ref|XP_002897889.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "GO:0005634,GO:0003677", "XP_002897889.1,EEY64689.1"

Stramenopiles-Phytophthora_capsici_jgi110007,214,353.984,6.65E-96,gi|301097589|ref|XP_002897889.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "GO:0005634,GO:0003677", "XP_002897889.1,EEY64689.1"

Stramenopiles-Phytophthora parasitica_esContig356_3,269,379.793,1.44E-103,gi|301097589|ref|XP_002897889.1|conserved hypothetical protein [Phytophthora infestans T30-4] , " GO:0005634,GO:0003677", "XP_002897889.1,EEY64689.1"

Stramenopiles-Fragilariopsis cylindrus_jgi145199,82,137.502,3.86E-31,gi|219119941|ref|XP_002180721.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , " GO:0005634,GO:0003677", "XP_002180721.1,EEC48129.1"

Stramenopiles-Phaeodactylum tricorutum_CCAP_1055/1_gi219119941,90,184.882,2.06E-45,gi|219119941|ref|XP_002180721.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , " GO:0005634,GO:0003677", "XP_002180721.1,EEC48129.1"

Stramenopiles-Thalassiosira pseudonana_CCMP1335_gi223994915,85,175.637,1.43E-42,gi|223994915|ref|XP_002287141.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0005634,GO:0003677", "XP_002287141.1,EED94584.1"

Stramenopiles-Blastocystis hominis_tbBHL00002718_3,234,186.808,1.37E-45,gi|300122950|emb|CBK23957.2|unnamed protein product [Blastocystis hominis], " GO:0005634,GO:0003677", "CBK23957.2"

Stramenopiles-Phytophthora ramorum_jgi73027,1726,2526.51,0,gi|301097569|ref|XP_002897879.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , " GO:0005216,GO:0005245,GO:0005244,GO:0006816,GO:0016021,GO:0016020,GO:0006811,GO:0006810,GO:0005262,GO:0055085,GO:0005891", "XP_002897879.1,EEY64679.1"

Stramenopiles-Phytophthora capsici_jgi119794,1674,2487.22,0,gi|301097569|ref|XP_002897879.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , " GO:0005216,GO:0005245,GO:0005244,GO:0006816,GO:0016021,GO:0016020,GO:0006811,GO:0006810,GO:0005262,GO:0055085,GO:0005891", "XP_002897879.1,EEY64679.1"

Stramenopiles-Phytophthora sojae_jgi128674,1914,2756.09,0,gi|301097569|ref|XP_002897879.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , " GO:0005216,GO:0005245,GO:0005244,GO:0006816,GO:0016021,GO:0016020,GO:0006811,GO:0006810,GO:0005262,GO:0055085,GO:0005891", "XP_002897879.1,EEY64679.1"

Stramenopiles-Phytophthora capsici_jgi38040,455,669.848,0,gi|301108179|ref|XP_002903171.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "XP_002903171.1,EEY55595.1"

Stramenopiles-Phytophthora ramorum_jgi75839,436,633.254,1.55E-179,gi|301108179|ref|XP_002903171.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "XP_002903171.1,EEY55595.1"

Stramenopiles-Phytophthora sojae_jgi141452,905,661.374,0,gi|301108179|ref|XP_002903171.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "XP_002903171.1,EEY55595.1"

Stramenopiles-Phytophthora capsici_jgi20194,583,900.582,0,gi|301102536|ref|XP_002900355.1|conserved hypothetical protein [Phytophthora infestans T30-4] , "XP_002900355.1,EEY60148.1"

Stramenopiles-Phytophthora parasitica_esgi68419650_1,239,78.9518,4.98E-13,gi|260809656|ref|XP_002599621.1|hypothetical protein BRAFLDRAFT_77720 [Branchiostoma floridae] , GO:0005529, "XP_002599621.1,EEN55633.1"

Stramenopiles-Aureococcus anophagefferens_jgi62439,2280,211.075,1.50E-51,gi|260809656|ref|XP_002599621.1|hypothetical protein BRAFLDRAFT_77720 [Branchiostoma floridae] , GO:0005529, "XP_002599621.1,EEN55633.1"

Stramenopiles-Aureococcus anophagefferens_jgi63985,4513,134.035,4.10E-28,gi|298709582|emb|CBJ31408.1|expressed unknown protein [Ectocarpus siliculosus] , "CBJ31408.1"

Stramenopiles-Phytophthora_sojae_jgi131954,466,257.299,2.91E-66,"gi|157106769|ref|XP_001649474.1|ankyrin 2,3/unc44 [Aedes aegypti] ,,"XP_001649474.1,EAT33004.1"

Stramenopiles-Phytophthora_sojae_jgi131955,379,226.868,2.96E-57,"gi|157106769|ref|XP_001649474.1|ankyrin 2,3/unc44 [Aedes aegypti] ,,"XP_001649474.1,EAT33004.1"

Stramenopiles-Phytophthora_sojae_jgi131195,2823,1197.96,0,"gi|115709795|ref|XP_794477.2|PREDICTED: similar to ankyrin 2,3/unc44 [Strongylocentrotus purpuratus] ,,"XP_794477.2,XP_001195551.1"

Stramenopiles-Aureococcus_anophagefferens_jgi13311,173,104.76,3.24E-21,"gi|229582572|ref|YP_002840971.1|Ankyrin [Sulfolobus islandicus Y.N.15.51] ,,"YP_002840971.1,ACP49049.1"

Stramenopiles-Aureococcus_anophagefferens_jgi71275,1409,180.259,1.67E-42,"gi|299116665|emb|CBN74810.1|conserved unknown protein [Ectocarpus siliculosus] ,,"CBN74810.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi206915,452,639.417,0,"gi|219114433|ref|XP_002176387.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002176387.1,EEC42623.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219114433,444,913.294,0,"gi|219114433|ref|XP_002176387.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002176387.1,EEC42623.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223994641,399,819.305,0,"gi|223994641|ref|XP_002287004.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,,"XP_002287004.1,EED96645.1"

Stramenopiles-Aureococcus_anophagefferens_jgi70027,479,481.485,9.07E-134,"gi|219114433|ref|XP_002176387.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002176387.1,EEC42623.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224010002,420,871.307,0,"gi|224010002|ref|XP_002293959.1|hypothetical protein THAPSDRAFT_264191 [Thalassiosira pseudonana CCMP1335] ,,"XP_002293959.1,EED88968.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219119654,363,749.199,0,"gi|219119654|ref|XP_002180582.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,,"XP_002180582.1,EEC47990.1"

Stramenopiles-Phytophthora_sojae_jgi129188,542,857.825,0,"gi|301112192|ref|XP_002905175.1|cell division cycle protein 20 [Phytophthora infestans T30-4] , GO:0051301,"XP_002905175.1,EEY53557.1"

Stramenopiles-Phytophthora_capsici_jgi35809,537,808.135,0,"gi|301112192|ref|XP_002905175.1|cell division cycle protein 20 [Phytophthora infestans T30-4] , GO:0051301,"XP_002905175.1,EEY53557.1"

Stramenopiles-Phytophthora_ramorum_jgi77091,538,827.395,0,"gi|301112192|ref|XP_002905175.1|cell division cycle protein 20 [Phytophthora infestans T30-4] , GO:0051301,"XP_002905175.1,EEY53557.1"

Stramenopiles-Phytophthora_sojae_jgi108837,500,683.715,0,"gi|301119993|ref|XP_002907724.1|WD repeat-containing protein srw1 [Phytophthora infestans T30-4] ,,"XP_002907724.1,EEY64288.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi150968,287,213.386,2.44E-53,gi|219111927|ref|XP_002177715.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , " GO:0003676,GO:0000166", "XP_002177715.1,EEC50529.1"

Stramenopiles-Aureococcus_anophagefferens_jgi7168,131,120.553,5.98E-26,gi|198424334|ref|XP_002120556.1|PREDICTED: similar to leucine rich repeat containing 51 isoform 2 [Ciona intestinalis],,XP_002120556.1

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi223996579,970,2003.02,0,gi|223996579|ref|XP_002287963.1|predicted protein [Thalassiosira pseudonana CCMP1335] , " GO:0016998,GO:0005634,GO:0003677", "XP_002287963.1,EED95406.1"

Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219110082,869,1809.27,0,gi|219110082|ref|XP_002176793.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , , "XP_002176793.1,EEC51256.1"

Stramenopiles-
Phytophthora_ramorum_jgi72621,1389,2325.05,0,"gi|301122337|ref|XP_002908895.1|ryanodine-inositol 1,4,5-triphosphate receptor Ca2 channel (RIR-CaC) family protein [Phytophthora infestans T30-4] ", GO:0004872,"XP_002908895.1,EEY57709.1"

Stramenopiles-
Phytophthora_sojae_jgi130115,1402,2382.83,0,"gi|301122337|ref|XP_002908895.1|ryanodine-inositol 1,4,5-triphosphate receptor Ca2 channel (RIR-CaC) family protein [Phytophthora infestans T30-4] ", GO:0004872,"XP_002908895.1,EEY57709.1"

Stramenopiles-Aureococcus_anophagefferens_jgi21207,236,112.849,3.18E-23,"gi|24644950|ref|NP_649757.1|CG2767, isoform A [Drosophila melanogaster] ", GO:0055114,"NP_649757.1,AAF54175.1,AAM50797.1,ACL84508.1,ACL89445.1"

Stramenopiles-Aureococcus_anophagefferens_jgi39075,563,424.476,1.76E-116,gi|301105663|ref|XP_002901915.1|AP-1 complex subunit gamma-1 [Phytophthora infestans T30-4] , " GO:0015031,GO:0016020,GO:0008565,GO:0030131,GO:0005794,GO:0006886,GO:0005515,GO:0030117,GO:0016192,GO:0044431,GO:0005488", "XP_002901915.1,EEY57305.1"

Stramenopiles-
Aureococcus_anophagefferens_jgi38872,832,764.607,0,gi|301105663|ref|XP_002901915.1|AP-1 complex subunit gamma-1 [Phytophthora infestans T30-4] , " GO:0015031,GO:0016020,GO:0008565,GO:0030131,GO:0005794,GO:0006886,GO:0005515,GO:0030117,GO:0016192,GO:0044431,GO:0005488", "XP_002901915.1,EEY57305.1"

Stramenopiles-
Fragilariopsis_cylindrus_jgi225310,925,1145.57,0,gi|219121222|ref|XP_002185839.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , " GO:0015031,GO:0016020,GO:0008565,GO:0030131,GO:0005794,GO:0006886,GO:0005515,GO:0030117,GO:0016192,GO:0044431,GO:0005488", "XP_002185839.1,ACI65309.1"

Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219121222,939,1946.01,0,gi|219121222|ref|XP_002185839.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , " GO:0015031,GO:0016020,GO:0008565,GO:0030131,GO:0005794,GO:0006886,GO:0005515,GO:0030117,GO:0016192,GO:0044431,GO:0005488", "XP_002185839.1,ACI65309.1"

Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224009504,871,1798.87,0,gi|224009504|ref|XP_002293710.1|gamma subunit of tetrameric clathrin adaptor complex AP2 [Thalassiosira pseudonana CCMP1335] , " GO:0015031,GO:0016020,GO:0008565,GO:0030131,GO:0005794,GO:0006886,GO:0005515,GO:0030117,GO:0016192,GO:0044431,GO:0005488", "XP_002293710.1,EED88719.1"

Stramenopiles-
Phytophthora_ramorum_jgi47796,841,1486.09,0,gi|301105663|ref|XP_002901915.1|AP-1 complex subunit gamma-1 [Phytophthora infestans T30-4] , "

GO:0015031,GO:0016020,GO:0008565,GO:0030131,GO:0005794,GO:0006886,GO:0005515,GO:0030117,GO:0016192,GO:0044431,GO:0005488", "XP_002901915.1,EEY57305.1"

Stramenopiles-
Phytophthora_sojae_jgi133449,823,1431.39,0,gi|301105663|ref|XP_002901915.1|AP-1 complex subunit gamma-1 [Phytophthora infestans T30-4] ,"
GO:0015031,GO:0016020,GO:0008565,GO:0030131,GO:0005794,GO:0006886,GO:0005515,GO:0030117,GO:0016192,GO:0044431,GO:0005488", "XP_002901915.1,EEY57305.1"

Stramenopiles-
Phytophthora_capsici_jgi72092,852,1526.92,0,gi|301105663|ref|XP_002901915.1|AP-1 complex subunit gamma-1 [Phytophthora infestans T30-4] ,"
GO:0015031,GO:0016020,GO:0008565,GO:0030131,GO:0005794,GO:0006886,GO:0005515,GO:0030117,GO:0016192,GO:0044431,GO:0005488", "XP_002901915.1,EEY57305.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223998812,223,456.062,1.37E-126,gi|223998812|ref|XP_002289079.1|inositol monophosphatase [Thalassiosira pseudonana CCMP1335] , GO:0004437,"XP_002289079.1,EED94515.1"

Stramenopiles-Aureococcus_anophagefferens_jgi71581,1017,323.168,1.21E-85,gi|224011679|ref|XP_002295614.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002295614.1,ACI64331.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi232331,408,399.823,2.93E-109,gi|219113331|ref|XP_002186249.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005488,GO:0016491,GO:0008152,GO:0003824", "XP_002186249.1,ACI65719.1"

Stramenopiles-Aureococcus_anophagefferens_jgi28648,506,431.024,1.52E-118,gi|300120331|emb|CBK19885.2|unnamed protein product [Blastocystis hominis],"
GO:0004553,GO:0004563,GO:0005975,GO:0043169,GO:0003824",CBK19885.2

Stramenopiles-
Phytophthora_ramorum_jgi46952,1905,2978.73,0,gi|301117022|ref|XP_002906239.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002906239.1,EEY65640.1"

Stramenopiles-
Phytophthora_sojae_jgi115586,1830,2916.33,0,gi|301117022|ref|XP_002906239.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"
GO:0016887,GO:0005524,GO:0000166,GO:0017111", "XP_002906239.1,EEY65640.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi206499,128,216.853,5.43E-55,gi|219125612|ref|XP_002183070.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0046872,GO:0008270,GO:0005515", "XP_002183070.1,EEC45288.1"

Stramenopiles-Sargassum_binderi_esgi120455146_1,125,112.079,2.20E-23,gi|298714696|emb|CBJ27621.1|conserved unknown protein [Ectocarpus siliculosus],"
GO:0046872,GO:0008270,GO:0005515",CBJ27621.1

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224002296,122,255.758,1.06E-66,gi|224002296|ref|XP_002290820.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0046872,GO:0008270,GO:0005515", "XP_002290820.1,EED92572.1"

Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219125612,134,279.641,6.44E-74,gi|219125612|ref|XP_002183070.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0046872,GO:0008270,GO:0005515", "XP_002183070.1,EEC45288.1"

Stramenopiles-
Phytophthora_sojae_jgi108201,697,1359.74,0,gi|301121282|ref|XP_002908368.1|transketolase [Phytophthora infestans T30-4] ,"
GO:0004802,GO:0008152,GO:0003824", "XP_002908368.1,EEY61451.1"

Stramenopiles-
Phytophthora_ramorum_jgi71153,696,1314.67,0,gi|301121282|ref|XP_002908368.1|transketolase [Phytophthora infestans T30-4] ,"
GO:0004802,GO:0008152,GO:0003824", "XP_002908368.1,EEY61451.1"

Stramenopiles-

Phytophthora capsici_jgi99199,696,1363.21,0,gi|301121282|ref|XP_002908368.1|transketolase [Phytophthora infestans T30-4] ,"

GO:0004802,GO:0008152,GO:0003824", "XP_002908368.1,EEY61451.1"

Stramenopiles-

Phytophthora parasitica_esContig825_2,786,721.079,0,gi|301121282|ref|XP_002908368.1|transketolase [Phytophthora infestans T30-4] ,"

GO:0004802,GO:0008152,GO:0003824", "XP_002908368.1,EEY61451.1"

Stramenopiles-

Fragilariopsis cylindrus_jgi206407,694,863.603,0,gi|219124318|ref|XP_002182454.1|transketolase [Phaeodactylum tricorutum CCAP 1055/1] ,"

GO:0004802,GO:0008152,GO:0003824", "XP_002182454.1,EEC46355.1"

Stramenopiles-

Phaeodactylum tricorutum_CCAP_1055/1_gi219124318,684,1427.54,0,gi|219124318|ref|XP_002182454.1|transketolase [Phaeodactylum tricorutum CCAP 1055/1] ,"

GO:0004802,GO:0008152,GO:0003824", "XP_002182454.1,EEC46355.1"

Stramenopiles-

Thalassiosira pseudonana_CCMP1335_gi223993045,719,1500.34,0,gi|223993045|ref|XP_002286206.1|transketolase [Thalassiosira pseudonana CCMP1335] ,"

GO:0004802,GO:0016740,GO:0008152,GO:0003824", "XP_002286206.1,EED95847.1"

Stramenopiles-Sargassum binderi_esContig137_2,298,407.527,9.31E-

112,gi|299471379|emb|CBN79333.1|conserved unknown protein [Ectocarpus siliculosus] , " GO:0004802,GO:0008152,GO:0003824",CBN79333.1

Stramenopiles-

Fragilariopsis cylindrus_jgi259247,573,687.182,0,gi|301106605|ref|XP_002902385.1|regulator of chromosome condensation (RCC1)-like protein [Phytophthora infestans T30-4] , GO:0005515,"XP_002902385.1,EEY56311.1"

Stramenopiles-

Phaeodactylum tricorutum_CCAP_1055/1_gi219125443,341,693.73,0,gi|219125443|ref|XP_002182991.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , , "XP_002182991.1,EEC45727.1"

Stramenopiles-

Phytophthora capsici_jgi34059,546,1102.43,0,gi|301106605|ref|XP_002902385.1|regulator of chromosome condensation (RCC1)-like protein [Phytophthora infestans T30-4] , GO:0005515,"XP_002902385.1,EEY56311.1"

Stramenopiles-

Phytophthora sojae_jgi127329,546,1097.42,0,gi|301106605|ref|XP_002902385.1|regulator of chromosome condensation (RCC1)-like protein [Phytophthora infestans T30-4] , GO:0005515,"XP_002902385.1,EEY56311.1"

Stramenopiles-

Phytophthora ramorum_jgi84750,546,1091.26,0,gi|301106605|ref|XP_002902385.1|regulator of chromosome condensation (RCC1)-like protein [Phytophthora infestans T30-4] , GO:0005515,"XP_002902385.1,EEY56311.1"

Stramenopiles-

Phytophthora capsici_jgi37534,1098,1031.17,0,gi|301101976|ref|XP_002900076.1|regulator of chromosome condensation (RCC1)-like protein [Phytophthora infestans T30-4] , , "XP_002900076.1,EEY60703.1"

Stramenopiles-Fragilariopsis cylindrus_jgi179159,412,464.922,8.46E-

129,gi|219129772|ref|XP_002185055.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , , "XP_002185055.1,EEC43502.1"

Stramenopiles-

Phytophthora ramorum_jgi84680,1713,2861.63,0,gi|301109150|ref|XP_002903656.1|myosin-like protein [Phytophthora infestans T30-4] ,"

GO:0035091,GO:0005524,GO:0000166,GO:0007154,GO:0016459,GO:0005515,GO:0003774", "XP_002903656.1,EEY55432.1"

Stramenopiles-

Phytophthora capsici_jgi93537,840,1480.31,0,gi|301109150|ref|XP_002903656.1|myosin-like protein [Phytophthora infestans T30-4] ,"
GO:0035091,GO:0005524,GO:0000166,GO:0007154,GO:0016459,GO:0005515,GO:0003774", "XP_002903656.1,EEY55432.1"

Stramenopiles-

Phytophthora sojae_jgi108230,4439,8892.32,0,gi|301102724|ref|XP_002900449.1|sporangia induced dynein heavy chain [Phytophthora infestans T30-4] ,"
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "XP_002900449.1,EEY60242.1"

Stramenopiles-

Phytophthora capsici_jgi8,4282,8490.55,0,gi|301102724|ref|XP_002900449.1|sporangia induced dynein heavy chain [Phytophthora infestans T30-4] ,"
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "XP_002900449.1,EEY60242.1"

Stramenopiles-

Phytophthora ramorum_jgi95148,4253,6297.23,0,gi|301102724|ref|XP_002900449.1|sporangia induced dynein heavy chain [Phytophthora infestans T30-4] ,"
GO:0030286,GO:0016887,GO:0005524,GO:0000166,GO:0003777,GO:0017111,GO:0007018", "XP_002900449.1,EEY60242.1"

Stramenopiles-Fragilariopsis cylindrus_jgi267868,330,489.96,1.54E-136,gi|224014228|ref|XP_002296777.1|metalloprotease [Thalassiosira pseudonana CCMP1335] ,"
GO:0006508,GO:0008237,GO:0008233,GO:0004222", "XP_002296777.1,EED86978.1"

Stramenopiles-

Thalassiosira pseudonana_CCMP1335_gi224014228,654,1366.67,0,gi|224014228|ref|XP_002296777.1|metalloprotease [Thalassiosira pseudonana CCMP1335] ,"
GO:0006508,GO:0008237,GO:0008233,GO:0004222", "XP_002296777.1,EED86978.1"

Stramenopiles-

Phaeodactylum tricorutum_CCAP_1055/1_gi219128716,744,1562.36,0,gi|219128716|ref|XP_002184552.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0006508,GO:0008237,GO:0004222", "XP_002184552.1,EEC43951.1"

Stramenopiles-

Phytophthora capsici_jgi56,2259,2452.94,0,gi|301105359|ref|XP_002901763.1|pre-mRNA-processing-splicing factor 8 [Phytophthora infestans T30-4] ,"
GO:0005681,GO:0000398", "XP_002901763.1,EEY57153.1"

Stramenopiles-

Phytophthora sojae_jgi109256,2451,4653.2,0,gi|301105359|ref|XP_002901763.1|pre-mRNA-processing-splicing factor 8 [Phytophthora infestans T30-4] ,"
GO:0005681,GO:0000398", "XP_002901763.1,EEY57153.1"

Stramenopiles-

Fragilariopsis cylindrus_jgi168318,2260,4126.63,0,gi|219117712|ref|XP_002179646.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0005681,GO:0000398", "XP_002179646.1,EEC48632.1"

Stramenopiles-

Phaeodactylum tricorutum_CCAP_1055/1_gi219117712,2347,4885.47,0,gi|219117712|ref|XP_002179646.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"
GO:0005681,GO:0000398", "XP_002179646.1,EEC48632.1"

Stramenopiles-

Thalassiosira pseudonana_CCMP1335_gi223995761,2269,4725.23,0,gi|223995761|ref|XP_002287554.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0005681,GO:0000398", "XP_002287554.1,EED94997.1"

Stramenopiles-

Aureococcus anophagefferens_jgi54877,2385,4103.9,0,gi|301105359|ref|XP_002901763

.1|pre-mRNA-processing-splicing factor 8 [Phytophthora infestans T30-4] ,"
GO:0005681,GO:0000398", "XP_002901763.1,EEY57153.1"
Stramenopiles-
Phytophthora_ramorum_jgi71209,2339,4639.33,0,gi|301105359|ref|XP_002901763.1|pre-
-mRNA-processing-splicing factor 8 [Phytophthora infestans T30-4] ,"
GO:0005681,GO:0000398", "XP_002901763.1,EEY57153.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi261278,372,286.189,4.26E-
75,gi|163792415|ref|ZP_02186392.1|hypothetical oxidoreductase yiaK [alpha
proteobacterium BAL199] ,"
GO:0055114,GO:0016491,GO:0005737,GO:0008152", "ZP_02186392.1,EDP66629.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi287428,416,287.73,1.51E-
75,gi|163792415|ref|ZP_02186392.1|hypothetical oxidoreductase yiaK [alpha
proteobacterium BAL199] ,"
GO:0055114,GO:0016491,GO:0005737,GO:0008152", "ZP_02186392.1,EDP66629.1"
Stramenopiles-
Phytophthora_sojae_jgi143499,363,685.256,0,gi|301111970|ref|XP_002905064.1|conse-
rved hypothetical protein [Phytophthora infestans T30-4]
,, "XP_002905064.1,EEY53446.1"
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224015006,2464,5142.4,0,gi|224015006|ref|XP_
002297164.1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002297164.1,EED86489.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi243335,1413,1310.05,0,gi|224015006|ref|XP_002297164.
1|predicted protein [Thalassiosira pseudonana CCMP1335]
,, "XP_002297164.1,EED86489.1"
Stramenopiles-Aureococcus_anophagefferens_jgi26166,705,461.84,1.14E-
127,gi|42569537|ref|NP_180749.2|XIF; motor [Arabidopsis thaliana],,NP_180749.2
Stramenopiles-Aureococcus_anophagefferens_jgi327,644,493.812,2.64E-
137,gi|1346638|sp|P47808.1|MYSH_ACACARecName: Full=High molecular weight form of
myosin-1; AltName: Full=High molecular weight form of myosin I; Short=HMWMI ,"
GO:0005524,GO:0005856,GO:0003779,GO:0000166,GO:0016459,GO:0003774", "P47808.1,AAA
27709.1"
Stramenopiles-
Phytophthora_ramorum_jgi80864,3303,5918.19,0,gi|301113386|ref|XP_002998463.1|myo-
sin-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0008152,GO:0000166,GO:0003824,GO:0016459,GO:0003774", "XP_002998463
.1,EEY69816.1"
Stramenopiles-
Phytophthora_sojae_jgi140880,3276,5915.11,0,gi|301113386|ref|XP_002998463.1|myos-
in-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0008152,GO:0000166,GO:0003824,GO:0016459,GO:0003774", "XP_002998463
.1,EEY69816.1"
Stramenopiles-
Phytophthora_capsici_jgi85864,401,833.943,0,gi|301113386|ref|XP_002998463.1|myos-
in-like protein [Phytophthora infestans T30-4] ,"
GO:0005524,GO:0008152,GO:0000166,GO:0003824,GO:0016459,GO:0003774", "XP_002998463
.1,EEY69816.1"
Stramenopiles-
Phaeodactylum_tricornutum_CCAP_1055/1_gi219122035,1027,2136.69,0,gi|219122035|re-
f|XP_002181360.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0005524,GO:0000166,GO:0016459,GO:0003774", "XP_002181360.1,EEC47283.1"
Stramenopiles-
Fragilariopsis_cylindrus_jgi156363,889,977.237,0,gi|239925821|gb|ACS35545.1|myos

in I [Phaeodactylum tricorutum],"
GO:0046872,GO:0005524,GO:0000166,GO:0008270,GO:0016459,GO:0003774",ACS35545.1
Stramenopiles-
Thalassiosira_pseudonana_CCMP1335_gi224010952,810,1695.25,0,gi|224010952|ref|XP_002294433.1|myosin heavy chain-like protein [Thalassiosira pseudonana CCMP1335] , " GO:0005524,GO:0000166,GO:0016459,GO:0003774", "XP_002294433.1,EED88267.1"
Stramenopiles-Aureococcus_anophagefferens_jgi19710,870,516.924,4.81E-144,gi|299117468|emb|CBN73971.1|myosin II heavy chain [Ectocarpus siliculosus], " GO:0005524,GO:0000166,GO:0016459,GO:0003774",CBN73971.1
Stramenopiles-
Phytophthora_sojae_jgi142328,1540,2868.18,0,gi|301109150|ref|XP_002903656.1|myosin-like protein [Phytophthora infestans T30-4] , "
GO:0035091,GO:0005524,GO:0000166,GO:0007154,GO:0016459,GO:0005515,GO:0003774", "XP_002903656.1,EEY55432.1"
Stramenopiles-Fragilariopsis_cylindrus_jgi271794,304,301.212,9.99E-80,gi|219127562|ref|XP_002184002.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , "XP_002184002.1,EEC44671.1"
Stramenopiles-
Phaeodactylum_tricorutum_CCAP_1055/1_gi219127562,291,610.527,6.48E-173,gi|219127562|ref|XP_002184002.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , "XP_002184002.1,EEC44671.1"
Stramenopiles-Aureococcus_anophagefferens_jgi64344,211,142.124,3.40E-32,gi|219127562|ref|XP_002184002.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] , "XP_002184002.1,EEC44671.1"
Stramenopiles-
Phytophthora_capsici_jgi889,694,1011.91,0,gi|301111810|ref|XP_002904984.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , "
GO:0005509,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002904984.1,EEY53366.1"
Stramenopiles-
Phytophthora_ramorum_jgi79981,984,1335.47,0,gi|301111810|ref|XP_002904984.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , "
GO:0005509,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002904984.1,EEY53366.1"
Stramenopiles-
Phytophthora_sojae_jgi138717,997,1258.05,0,gi|301111810|ref|XP_002904984.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , "
GO:0005509,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002904984.1,EEY53366.1"
Stramenopiles-Aureococcus_anophagefferens_jgi64273,1883,147.132,2.25E-32,gi|301111810|ref|XP_002904984.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , "
GO:0005509,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002904984.1,EEY53366.1"
Stramenopiles-Aureococcus_anophagefferens_jgi62252,1086,254.603,4.56E-65,gi|301111810|ref|XP_002904984.1|Voltage-gated Ion Channel (VIC) Superfamily [Phytophthora infestans T30-4] , "
GO:0005509,GO:0016021,GO:0016020,GO:0055085,GO:0006811,GO:0005216,GO:0006810", "XP_002904984.1,EEY53366.1"
Stramenopiles-
Phytophthora_sojae_jgi108780,1178,1511.51,0,gi|219128321|ref|XP_002184364.1|precursor of carboxylase pyruvate carboxylase [Phaeodactylum tricorutum CCAP 1055/1] , "
GO:0005524,GO:0016874,GO:0005737,GO:0008152,GO:0003824,GO:0009374,GO:0004736,GO:0006094", "XP_002184364.1,EEC44113.1"

Stramenopiles-

Phytophthora_capsici_jgi117052,1216,1509.58,0,gi|219128321|ref|XP_002184364.1|precursor of carboxylase pyruvate carboxylase [Phaeodactylum tricorutum CCAP 1055/1] ,"

GO:0005524,GO:0016874,GO:0005737,GO:0008152,GO:0003824,GO:0009374,GO:0004736,GO:0006094", "XP_002184364.1,EEC44113.1"

Stramenopiles-

Phytophthora_ramorum_jgi71512,1177,1511.12,0,gi|219128321|ref|XP_002184364.1|precursor of carboxylase pyruvate carboxylase [Phaeodactylum tricorutum CCAP 1055/1] ,"

GO:0005524,GO:0016874,GO:0005737,GO:0008152,GO:0003824,GO:0009374,GO:0004736,GO:0006094", "XP_002184364.1,EEC44113.1"

Stramenopiles-Phytophthora_brassicae_esgi144596192_3,151,270.011,4.90E-71,"gi|301113592|ref|XP_002998566.1|pyruvate carboxylase, mitochondrial precursor [Phytophthora infestans T30-4] ", "

GO:0005524,GO:0016874,GO:0008152,GO:0003824,GO:0009374", "XP_002998566.1,EEY69919.1"

Stramenopiles-

Phytophthora_capsici_jgi37362,606,1212.21,0,"gi|301109779|ref|XP_002903970.1|endomembrane protein 70-like protein, putative [Phytophthora infestans T30-4] ", GO:0016021,"XP_002903970.1,EEY55025.1"

Stramenopiles-

Phytophthora_sojae_jgi108609,589,1159.44,0,"gi|301109779|ref|XP_002903970.1|endomembrane protein 70-like protein, putative [Phytophthora infestans T30-4] ", GO:0016021,"XP_002903970.1,EEY55025.1"

Stramenopiles-

Phytophthora_ramorum_jgi54939,578,1143.64,0,"gi|301109779|ref|XP_002903970.1|endomembrane protein 70-like protein, putative [Phytophthora infestans T30-4] ", GO:0016021,"XP_002903970.1,EEY55025.1"

Stramenopiles-

Phaeodactylum_tricorutum_CCAP_1055/1_gi219115499,203,422.165,1.71E-116,gi|219115499|ref|XP_002178545.1|predicted protein [Phaeodactylum tricorutum CCAP 1055/1] ,"

GO:0003723,GO:0006413,GO:0006412,GO:0005737,GO:0003743", "XP_002178545.1,EEC50210.1"

Stramenopiles-Blastocystis_hominis_tbBHL00000921_2,257,253.062,2.01E-

65,gi|300121246|emb|CBK21627.2|unnamed protein product [Blastocystis hominis], "GO:0003723,GO:0006413,GO:0006412,GO:0005737,GO:0003743",CBK21627.2

Stramenopiles-Phytophthora_sojae_jgi142035,197,350.517,4.67E-

95,gi|301119537|ref|XP_002907496.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,"

GO:0003723,GO:0006413,GO:0006412,GO:0005737,GO:0003743", "XP_002907496.1,EEY64060.1"

Stramenopiles-Aureococcus_anophagefferens_jgi72235,787,96.6709,1.17E-

17,gi|114619671|ref|XP_001154346.1|PREDICTED: kinesin family member 13B [Pantroglodytes],,XP_001154346.1

Stramenopiles-

Thalassiosira_pseudonana_CCMP1335_gi224003875,376,767.303,0,gi|224003875|ref|XP_002291609.1|calreticulin-like protein [Thalassiosira pseudonana CCMP1335] , "GO:0051082,GO:0005509,GO:0006457,GO:0005783", "XP_002291609.1,EED91716.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi171081,422,509.605,2.50E-

142,gi|219129933|ref|XP_002185131.1|calreticulin [Phaeodactylum tricorutum CCAP 1055/1] ,"

GO:0051082,GO:0005509,GO:0006457,GO:0005783", "XP_002185131.1,EEC43263.1"

Stramenopiles-Phytophthora_capsici_jgi117813,169,281.952,1.28E-74,gi|301107273|ref|XP_002902719.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002902719.1,EEY56645.1"

Stramenopiles-Phytophthora_ramorum_jgi80810,147,268.47,1.71E-70,gi|301107273|ref|XP_002902719.1|conserved hypothetical protein [Phytophthora infestans T30-4] ,, "XP_002902719.1,EEY56645.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219123949,136,281.952,1.33E-74,gi|219123949|ref|XP_002182277.1|predicted protein [Phaeodactylum tricornutum CCAP 1055/1] ,, "XP_002182277.1,EEC46178.1"

Stramenopiles-Aureococcus_anophagefferens_jgi30428,268,158.303,7.77E-37,gi|66825415|ref|XP_646062.1|SET domain-containing protein [Dictyostelium discoideum AX4] ,, "XP_646062.1,EAL72127.1"

Stramenopiles-Aureococcus_anophagefferens_jgi29200,509,385.956,6.40E-105,gi|195996373|ref|XP_002108055.1|hypothetical protein TRIADDRAFT_36979 [Trichoplax adhaerens] ,"
GO:0006629,GO:0055114,GO:0016717,GO:0020037,GO:0016491,GO:0005506,GO:0006633", "XP_002108055.1,EDV28853.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi224003319,493,1027.31,0,gi|224003319|ref|XP_002291331.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0006629,GO:0055114,GO:0016717,GO:0020037,GO:0016491,GO:0005506,GO:0006633", "XP_002291331.1,AAX14504.1,EED91438.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi188378,477,369.392,5.20E-100,gi|156405194|ref|XP_001640617.1|predicted protein [Nematostella vectensis] ,"
GO:0006629,GO:0055114,GO:0016717,GO:0020037,GO:0016491,GO:0005506,GO:0006633", "XP_001640617.1,EDO48554.1"

Stramenopiles-Thalassiosira_pseudonana_CCMP1335_gi223997060,560,1174.07,0,gi|223997060|ref|XP_002288203.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0055114,GO:0005509,GO:0000287,GO:0016616,GO:0051287", "XP_002288203.1,EED93639.1"

Stramenopiles-Fragilariopsis_cylindrus_jgi168262,485,753.821,0,gi|223997060|ref|XP_002288203.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0055114,GO:0005509,GO:0000287,GO:0016616,GO:0051287", "XP_002288203.1,EED93639.1"

Stramenopiles-Phaeodactylum_tricornutum_CCAP_1055/1_gi219124414,357,746.117,0,gi|219124414|ref|XP_002182499.1|isocitrate dehydrogenase [Phaeodactylum tricornutum CCAP 1055/1] ,"
GO:0055114,GO:0006102,GO:0000287,GO:0016616,GO:0004450,GO:0051287", "XP_002182499.1,EEC45786.1"

Stramenopiles-Aureococcus_anophagefferens_jgi71458,491,588.186,7.18E-166,gi|223997060|ref|XP_002288203.1|predicted protein [Thalassiosira pseudonana CCMP1335] ,"
GO:0055114,GO:0005509,GO:0000287,GO:0016616,GO:0051287", "XP_002288203.1,EED93639.1"

Stramenopiles-Aureococcus_anophagefferens_jgi51995,635,434.491,1.79E-119,gi|61394184|gb|AAX45785.1|glucose-6-phosphate dehydrogenase isoform B [Ips tyographus] ,"
GO:0055114,GO:0006006,GO:0005488,GO:0016491,GO:0004345,GO:0008152,GO:0005975,GO:0003824", AAX45785.1

Stramenopiles-

Phytophthora_capsici_jgi91110,565,1065.45,0,gi|301119447|ref|XP_002907451.1|Ca2
:Cation Antiporter (CaCA) Family [Phytophthora infestans T30-4] ,"
GO:0005509,GO:0016021,GO:0016020,GO:0055085", "XP_002907451.1,EEY64015.1"

Stramenopiles-

Phytophthora_sojae_jgi128229,565,1058.51,0,gi|301119447|ref|XP_002907451.1|Ca2
:Cation Antiporter (CaCA) Family [Phytophthora infestans T30-4] ,"
GO:0005509,GO:0016021,GO:0016020,GO:0055085", "XP_002907451.1,EEY64015.1"