Supplementary Information for

Extraordinary expansion of a *Sorangium cellulosum* genome from an alkaline milieu

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Supporting Text

Genome sequencing, assembly and annotation

A combined strategy of next-generation and traditional Sanger sequencing methodologies was applied. Seven libraries were constructed from the So0157 2 genomic DNA, with average insertion lengths ranging from 242 to 6000 bp. Assembly of the Solexa® sequenced libraries yielded 5749 Mb of clean data, 400 contigs and 41 scaffolds (Supplementary Table S6). Further co-assembly of an additional 2.5× 454 reads produced one scaffold with a 385-fold average depth of coverage. All of the regions with less than 3-fold coverage were validated by PCR and Sanger sequencing. Ultimately, we obtained the complete 14,782,125 bp circular genome sequence of *S. cellulosum* So0157-2, which is now the largest reported prokaryotic genome, being 1.75 Mb larger than the *S. cellulosum* so ce56 genome (13.03 Mb) [1].

The GC content of So0157-2 genome is 72.1% and it contains 11,599 predicted protein-coding sequences (CDSs). Of these CDSs, 5,175 (44.6%) were annotated for hypothetical proteins through the RAST pipeline. Circles 2 & 4 in Fig. 2A show the final map of the chromosome numbered beginning from the *dnaA* gene. The *S. cellulosum* So0157-2 and So ce56 genomes are largely collinear (Fig. 2B), and approximately two-thirds of the total CDSs in the So0157-2 genome (8224) have homologues in So ce56 (Supplementary Table S7). The remaining one third of the sequences are unique to So0157-2, and approximately 1,000 of its 9,367 CDSs are unique to So ce56 (Supplementary Table S8 & S9). As in So ce56, the GC-skew inversion (Fig. 2A, circle 3), which is the hallmark of a bacterial chromosome replication origin, is absent in So0157-2, and thus, the location of *oriC* cannot be determined.

Genome characteristics

Non-coding RNA. A total of 74 non-coding RNAs, including 62 tRNAs and 12 rRNAs, were identified in the So0157-2 genome. Similar to other myxobacterial genomes, the rRNA genes of So0157-2 are located in four operons. However, only one of the operons presents the typical 5S-16S-23S structure, whereas two are atypical: one either lacks or contains a duplicated 5S rRNA gene, and one is interrupted (Supplementary Table S10). In the genome of the So ce56 strain, the 23S rRNA gene was not interrupted. Two inverted repeat sequences—the “calling cards” of transposons—were identified downstream of the operon containing three consecutive 5S rRNAs. In the interrupted operon, the 23S rRNA gene was replaced with an isoquinoline 1-oxidoreductase beta subunit and a hypothetical protein, which were both encoded by the complementary strand. There were no obvious sequence features suggesting that these two genes resulted from transposition or insertion.

Polysaccharide-degrading enzymes. The So0157-2 strain can effectively degrade a range of polysaccharides, including xylan, starch, mannan, lichenan, avicel, chitin and artificial carboxymethylcellulose. Surprisingly, a total of 557 ORFs, accounting for 7.95% (1,175,488 bp) of the total So0157-2 genome, were predicted to encode proteins involved in polysaccharide degradation, and nearly half of them were predicted to function in cellulose degradation. These polysaccharide degradation related enzymes, which included glycoside hydrolases (GHs), glycosyltransferases (GTs), polysaccharide lyases (PLs) and carbohydrate esterases (CEs), belonged to 112 families, 85 of which had more than one homolog (Supplementary Fig. S3). A total of 220 carbohydrate-binding modules (CBMs) were distributed across 22 families. Five families comprised 161 of the CBMs, with 56, 20, 51, 18 and 14 CBMs identified in the CBM2, CBM6, CBM13, CBM48 and CBM50 families, respectively. These five CBM families were predicted to function in the degradation of amorphous cellulose (CBM6), chitin (CBM2, CBM50), xylan (CBM2, CBM6, CBM13), glycogen (CBM48) and peptidoglycan (CBM13, CBM50). Smaller families contained genes involved in the degradation of various other polysaccharides, such as starch, mannan, arabinofuranose and fucose.

In comparison, only 226 ORFs in the So ce56 genome were predicted to encode proteins responsible for polysaccharide degradation, *i.e.*, 114 GHs, 72 GTs, 11 PLs and 29 CEs. Most of these ORFs had homologues in So0157-2. Although each genome contained similar enzyme families, the number of enzymes was much greater in So0157-2 (Supplementary Fig. S3; Supplementary Table S11). Furthermore, although the composition ratios of the four enzyme classes (GH, GT, PL and CE) were rather consistent in So0157-2 and So ce56, the CBM compositions (161 vs. 40) were significantly divergent in these two strains. The richness and diversity of the ORFs related to polysaccharide degradation may explain the bacteria's excellent ability to degrade various polysaccharides, and also implies that it has adapted to its dwelling environments.

Motility-related genes. Myxobacterial cells move on solid surfaces by gliding in swarms, which are coordinated by two distinct, independent mechanisms: the social motility (S-motility) and adventurous motility (A-motility) systems [2]. In the well-studied myxobacterium *Myxococcus xanthus* DK1622, S-motility is determined by three components: the molecular pulling motor type IV pilus (TFP), exopolysaccharide (EPS) and lipopolysaccharide (LPS). A-motility may be driven by polyelectrolyte secretion at the lagging cell pole [3] and/or multiple focal adhesion complexes distributed along the cell body [4]. Each system comprises many genes in *M. xanthus* DK1622. All of the related biosynthetic and regulatory genes were extracted from the *S. cellulosum* So0157-2 genome (Supplementary Table S12) for comparison. As previously reported in *S. cellulosum* So ce56 [5], LPS-related gene clusters, including those encoding lipid A, core oligosaccharide and O-polysaccharide, were partially absent in *S. cellulosum* So0157-2 (Supplementary Table S12). Former research shows that a 28-gene cluster is directly responsible for EPS biosynthesis and regulation in *M. xanthus* DK1622 [6]. In the *S. cellulosum* So0157-2 genome, with the exception of two transposases, one glycosyltransferase and nine hypothetical proteins, all of these EPS genes were present. However, unlike their proximal distribution in the DK1622 genome, these EPS biosynthetic and regulatory genes were scattered across the *S. cellulosum* So0157-2 genome, which may, if functional, require much more complicated regulation. Furthermore, some TFP biosynthesis genes that had clear functions in *M. xanthus* DK1622 (*e.g.*, *pilN*) [7] were also atypical in *S. cellulosum* So0157-2. However, *pilT*, a gene responsible for twitching motility [8], was present in five copies in the So0157-2 genome.

More than 35 genes or genome regions are involved in the function and regulation of A-motility in *M. xanthus* DK1622 [9]. In the So0157-2 and So ce56 genomes, with the exception of *mglA* (encoding a Ras-like protein) and the affiliated *mglB* gene, none of the A-motility-related genes have counterparts. These data suggests that the A-motility mechanisms differ between myxobacterial groups.

Chemotaxis systems. In *Myxococcus xanthus* DK1622, there are eight chemotaxis-like gene clusters defining eight chemosensory pathways. Most of these chemosensory pathways play roles in controlling motility, and at least two pathways regulate gene expression during development [10]. In So0157-2, although all of the defined chemotaxis systems were present, they were each incomplete (Supplementary Table S13). For example, in the well-studied Frz system, only a methyltransferase (CheR) and two regulatory proteins (CheY and CheA) were annotated. A similar result was observed in the Dif system, where only CheA and CheY were annotated. The Che4 and Che5 systems in So0157-2 were structurally similar to the Frz system. The Che3, Che7 and Che8 systems exhibited included MCP (methyl-accepting chemotaxis protein), CheA, CheY, CheR, and an adaptor protein (CheW). In each of the eight chemotaxis systems, at least one histidine kinase (CheA) was annotated in the *S. cellulosum* So0157-2 genome. However, many copies of the components of the chemotaxis system were annotated in So0157-2. For example, 20 CheA proteins were annotated in the Che3 system and 10 CheA proteins were annotated in the Frz system. Notably, in contrast to the clustered chemotaxis systems observed in DK1622, only the Che6 and Che8 systems were organized in clusters, whereas the other systems were scattered throughout the So0157-2 genome.

Secondary metabolism. Myxobacteria can produce diverse bioactive compounds, and *Sorangium* strains contribute nearly half of the compounds produced by myxobacteria [11]. In the So0157-2 genome, we identified, 18 non-ribosomal peptide synthetase (NRPS) and polyketide synthase (PKS) gene clusters (420 kb, approximately 3% of the genome, Fig. 2A, circle 18; Supplementary Table S14) and a number of clusters responsible for the biosynthesis of molecules such as terpenes, indoles, and bacteriocin (approximately 7%

of the genome) (Fig. 2A, circle 18). The 18 NRPS/PKS clusters are organized into three types: 6 with PKS only, 5 with NRPS only and 8 with a mixed distribution of NRPS/PKS. Two PKS clusters exhibited a classical modular structure and may function iteratively; three were single module clusters, with features typical of type II PKS; and one contained 12 modules without an AT domain, which is responsible for substrate identification and specificity. Of the five NRPS clusters, four had typical modular structures that function sequentially or iteratively, and one was atypical in that it contained only one module, which may be functionally irregular. The PKS/NRPS hybrids, including the epothilone biosynthetic gene cluster, represent a significant feature, endowing these compounds with unique bioactivity in myxobacteria [12].

Electron transfer chain. Myxobacteria phylogenetically fall within the δ-proteobacteria, in which most members are strictly anaerobic [13]. An analysis of *M. xanthus* DK1622 shows a chimeric Complex VI electron transfer chain [14]. In *S. cellulosum* So0157-2, two electron transfer systems likely exist (Supplementary Table S15). The genes responsible for electron transfer were divided into several gene clusters surrounded by a series of hypothetical proteins. There was no evidence to suggest that these genes may have resulted from duplication events. *S. cellulosum* So0157-2 and So ce56 shared almost all of their electron transfer chain genes, suggesting that these strains share an early common ancestor. In the *S. cellulosum* genome, the two complete sets of genes responsible for electron transfer to the final acceptor were identified, suggesting that these genes were functional within bacterial cells. In the sequenced myxobacteria, two sets of Complex II succinate dehydrogenase genes. One of these genes arose from the Firmicutes group, but the other was homologous to the corresponding gene in high GC-content Gram-positive bacteria. Interestingly, *Anaeromyxobacter* and *Sorangium* possess both types of succinate dehydrogenase, whereas *Myxococcus*, *Stigmatella*, and *Corallococcus* have only one type. Two sets of In Complex I NADH dehydrogenases were also identified in the So0157-2 genome. One complete set, comprising 15 components clustered in four groups, was detected; however, the second gene set was incomplete. These two Complex I gene sets originated from proteobacteria and bacteroidetes, respectively. Similar to Complex II, the complete set was common among myxobacteria species, whereas the incomplete set was only present in the anaerobic myxobacterial species and *Sorangium*. The Complex IV is relatively conserved among myxobacteria, and it mainly comprises two sets of heme-copper cytochrome *c* oxidases, one set of cytochrome *bd* quinol oxidases and an alternative cbb_3-type cytochrome *c* oxidase. However, the cbb_3-type cytochrome *c* oxidase was generally missing in the respiratory chain of *S. cellulosum*.

Phage invasion. Microbial genomics has revealed that a substantial number of bacterial genomes include prophage or virus sequences [15]. In So0157-2, 423 putative prophage CDSs and 62 viral CDSs were detected (Fig. 2A, circle 12 & 13). Of the annotated prophage-origin genes, 55 genes were hypothetical, and 367 genes were assigned specific functions. This ratio (367/422) is extremely high. Of the annotated serine/threonine protein kinase CDSs, 63 were predicted to have originated from prophages. Additionally, ATP-dependent proteases (13 CDSs), transcriptional regulators (8 CDSs) and some CDSs related to DNA/RNA metabolism also originated from phages. Putative virus CDSs were scattered throughout the So0157-2 genome. These CDSs included virus structural genes, DNA/RNA metabolism-related genes (*e.g.*, the 3'-to-5' exoribonuclease RNase R, poly(A) polymerase, ribonucleotide reductase, RNA-2',3'-PO4:RNA-5'-OH ligase, and a single-stranded-DNA-specific exonuclease), and four CDSs of unknown function. Finally, several PKS-related genes had viral homologues. However, none of the prophage or virus sequences was active in the So0157-2 genome.

Insert sequence (IS) elements. IS elements are represented as an open box including the terminal IRs and a single open reading frame encoding the transposase [16]. There were 67 putative IS elements in the So0157-2 genome, like its close relative, So ce56, only one element was longer than 1 kb. The 66 short putative IS sites contained a number of known inverted repeats, but none of the intervening sequences showed significant similarity to any of the available database sequences. Furthermore, 37 predicted transposases were identified in the So0157-2 genome, a finding that is in accordance with presence of the putative IS sites (left and right inverted repeats). These results suggest that there are additional, specific linear insert sequence structures that may contain novel insertion sequence patterns.

Supplementary Methods

Genome assembly and feature annotation

Two independent assemblies of the bacterial genome were obtained using the 454® sequencing reads and the Solexa® reads. The assemblies were generated with SOAPdenovo [17], ABySS [18], and Velvet [19], with the default parameters being employed in all programs. For each assembly, all vs. all alignments were performed using the MUMmer package [20] with a minimum overlap of 100 bp. A new consensus assembly of the hybrid sequences was generated with SOAPdenovo and manually curated. MUMmer alignments of the assembled sequence and the *Sorangium cellulosum* so ce56 genome were used to assess the orientation and synteny conservation of the newly assembled fragments.

Gene prediction was performed with Glimmer v3.02 [21] and GeneMark.hmm for prokaryotes [22]. This analysis was followed with the application of an automatic annotation pipeline carried out with the RAST [23] and Blast2Go programs [24], which retrieve sequence information from SWISS PROT, InterPro, Pfam, PROSITE, COG, GO, KEGG, NCBI NR, and other databases. Transfer RNAs were detected with tRNAscan-SE [25]. Annotations were checked manually, and frameshift corrections were performed with GenePRIMP [26] using the original reads. Extra annotation of small (<100 bp) ORFs of known function was performed manually. Sequence manipulation, parsing, and statistical features, such as genome size, %GC, codon usage, and Codon Adaptation Index (CAI), were determined using the EMBOSS 6.40 package [27] and related scripts. Schematic features of the genome were constructed by Circos [28].

A whole-genome BLAST search against the CAZy database was conducted to annotate putative polysaccharide-degrading enzymes in the So0157-2 genome [29].

Secondary metabolite pathway analysis

Annotation of PKS/NRPS gene clusters was carried out using ClustScan and related databases [30]. Prediction of the amino acid usage for each module of non-ribosomal peptide synthetase (NRPS) was conducted with NRPSpredictor2 [31]. Additional gene cluster analysis for secondary metabolites was conducted with antiSMASH [32].

Analysis and mapping of paralogous genes

An all-against-all BLAST search of protome was conducted with the BLASTP program (NCBI Blast+ 2.26 package) [33] using an E-value threshold of 1e-10. All of the sequence pairs identified as reciprocal better or best hits were extracted. The average taxa weight based on all paralogous pairs was calculated. All pairs were clustered into independent groups with the MCL program [34]. The paralogous map was drawn by the Circos program [28].

Annotation of mobile genetic elements

The Insertion Sequence (IS) database was downloaded from the IS finder website [35]. The Prophage database from the ACLAME website was also used, which contains prophage, virus and integrated plasmid gene annotations [36]. The ICEberg database was downloaded to annotate integrated and conjugative elements in the So0157-2 genome [37]. The predicted So0157-2 proteome dataset was subjected to BLAST searches against the above dataset (BLASTP). An E-value threshold of 1e-30 was used, and the top 10 hits, when possible, were parsed for subsequent manual validation. The genes were further examined for GC content and codon usage biases, and an additional phylogenetic analysis was applied to identify other sources of horizontally transferred genes.

Restriction and modification system analysis

The full set of protein sequences from all of the experimentally confirmed restriction and modification systems was obtained from REBASE [38]. A BLASTP search was conducted using the predicted So0157-2 proteome dataset against the REBASE database. The E-value cutoff was set to 1e-30. Only the top hit was parsed for follow-up analysis.

Annotation Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR)

Whole-genome scanning for CRISPR sequences was conducted with PILER-CR v.1.06 [39]. The result was filtered using the following parameters: minimum array ≥10, minimum conservation >0.9, repeat length 16-64 bp, and spacer length 8-64 bp. The CRISPR-associated genes were annotated via BLASTP searches against CRISPR/Cas profiles obtained from NCBI (ftp://ftp.ncbi.nih.gov/pub/wolf/_suppl/CRISPRclass/crisprPro.html) with an E-value threshold of ≤ 1e-30.

Annotation sigma factors, transcriptional factors and protein kinase

The sigma factors, transcriptional factors and components of two component system were annotated by P2CS (http://www.p2cs.org/) [40] and P2TF (http://www.p2tf.org/) database. Genes encoding eukaryotic-like kinase in the prokaryotes were identified by BLASTP analysis of complete proteome using the Pfam matrix for protein kinases (Pkinase, PF00069; Pkinase_C, PF00433; Pkinase_tyr, PF07714). All sequences obtained with an E-value≤1e-10 were back-searched against Pfam and Prosite (http://expasy.org/prosite/) to verify unequivocally which proteins matched to the kinase domain.

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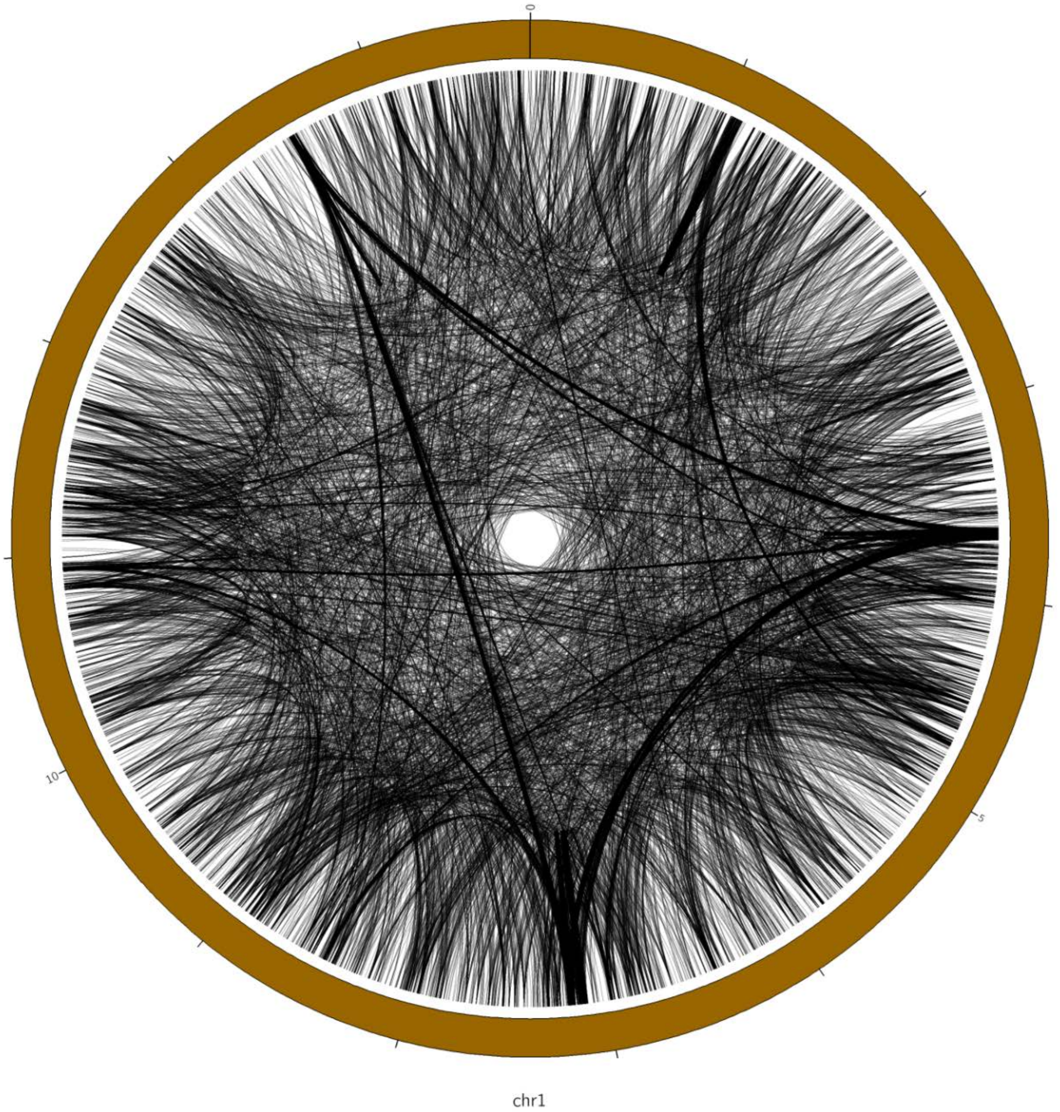
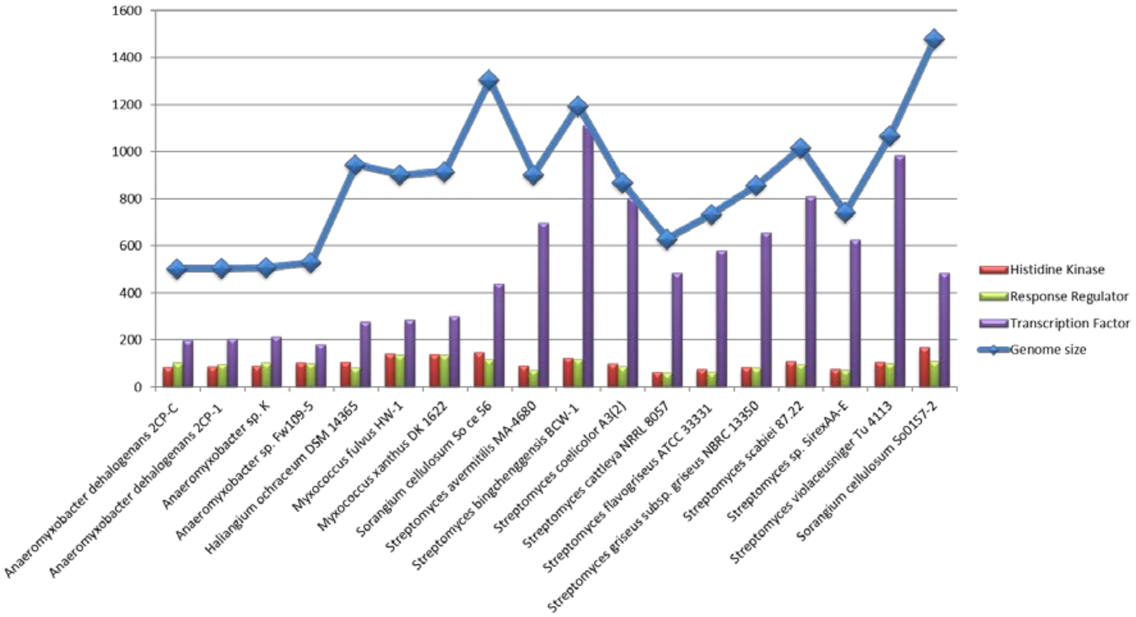
Supplementary Fig. S1.



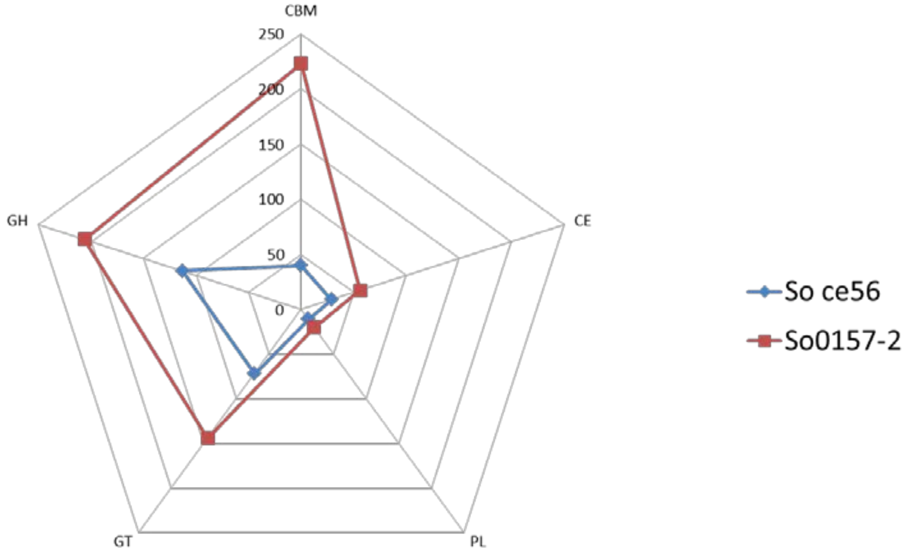
A schematic representation of genome sequence duplication in So0157-2.

Supplementary Fig. S2



The expansion of the regulatory network as an expansion of the genome.

Supplementary Fig. S3



A schematic representation of the abundance of polysaccharide-related families and CMB in two sequenced *Sorangium* genomes, So0157-2 and So ce56.

Supplementary Table S1. Annotations of eukaryotic-like kinases in So0157-2

Locus tag	Database* ID	Identity	Alignment length	Q. start	Q. end	D. start	D. end	E-value	Bit score
SCE1572_2	A9GHT8_SORC5/9-291	96.47	283	9	291	1	283	1.00E-161	566
SCE1572_22	A9GHZ6_SORC5/16-280	100	265	16	280	1	265	6.00E-150	526
SCE1572_38	A9GKW5_SORC5/18-287	97.78	270	18	287	1	270	1.00E-155	545
SCE1572_45	A9GKX5_SORC5/32-304	90.11	273	43	315	1	273	4.00E-142	500
SCE1572_50	B9RTW7_RICCO	36.27	193	5	193	38	225	1.00E-19	93.6
SCE1572_58	A9G3F0_SORC5/15-286	79.04	272	15	286	1	272	4.00E-128	454
SCE1572_72	A9GL24_SORC5/17-279	91.63	263	17	279	1	263	6.00E-144	506
SCE1572_157	A9FXD2_SORC5/32-294	80.23	263	32	294	1	263	1.00E-118	422
SCE1572_159	A9FXC4_SORC5/66-318	92.49	253	66	318	1	253	5.00E-130	461
SCE1572_221	B5DPB6_DROPS	31.68	202	266	457	758	958	2.00E-18	90.9
SCE1572_301	D0LG85_HALO1/9-288	38.23	327	27	351	1	280	4.00E-47	186
SCE1572_324	A6G4E4_9DELT	33.51	385	943	1296	900	1260	1.00E-35	149
SCE1572_368	A9GLX4_SORC5/38-301	83.71	264	24	286	1	264	4.00E-128	455
SCE1572_418	A6G4E4_9DELT	29.12	656	1080	1709	613	1219	1.00E-49	196
SCE1572_430	A9G5P3_SORC5/10-271	86.69	263	27	289	1	262	3.00E-134	474
SCE1572_433	A9GM76_SORC5/21-287	89.89	267	21	284	1	267	1.00E-137	486
SCE1572_498	A9FA64_SORC5/37-294	69.83	232	1	232	29	258	7.00E-89	325
SCE1572_510	A9GQH3_SORC5/6-269	90.53	264	6	268	1	264	4.00E-141	497
SCE1572_515	B9RTW7_RICCO	31.98	197	50	238	38	225	2.00E-12	69.7
SCE1572_535	A9GQL8_SORC5/11-242	94.02	234	11	244	1	232	7.00E-112	401
SCE1572_540	A9GQM9_SORC5/13-268	91.27	252	2	253	5	256	5.00E-130	461
SCE1572_587	A9GQX2_SORC5/13-284	80.51	272	13	282	1	272	4.00E-126	447
SCE1572_596	A9GQY7_SORC5/22-296	92	275	22	296	1	275	4.00E-152	533
SCE1572_602	A9GQZ9_SORC5/222-494	93.04	273	507	779	1	273	1.00E-146	516
SCE1572_648	A9GR88_SORC5/43-313	95.2	271	43	313	1	271	3.00E-150	528

SCE1572_669	B4KV63_DROMO	32.82	262			138	398	701	958	7.00E-31	132
SCE1572_671	A9GRD4_SORC5/21-295	86.79	280			21	300	1	275	5.00E-137	483
SCE1572_686	A9GU97_SORC5/162-331	92.35	170			144	313	1	170	5.00E-87	318
SCE1572_728	A9GUI6_SORC5/43-307	87.55	265			13	277	1	265	1.00E-134	475
SCE1572_743	D8LQ15_ECTSI	35.44	206			110	307	612	816	1.00E-20	97.4
SCE1572_745	A9GUM9_SORC5/30-300	98.89	271			29	299	1	271	5.00E-159	556
SCE1572_805	A9G2M3_SORC5/18-300	72.79	283			19	301	1	283	2.00E-100	362
SCE1572_810	B8LDL2_THAPS	24.32	588			151	718	953	1477	1.00E-35	149
SCE1572_824	A9FS91_SORC5/8-267	60.94	256			20	273	6	260	5.00E-79	293
SCE1572_844	A9GV94_SORC5/20-278	96.15	260			20	279	1	259	2.00E-140	495
SCE1572_872	E9C274_9EUKA	48.11	212			317	528	1539	1748	7.00E-56	214
SCE1572_894	D3BLW9_POLPA	37.04	135			4	137	1564	1697	7.00E-18	88.6
SCE1572_910	A9FP27_SORC5/11-267	84.82	257			11	267	1	257	6.00E-112	402
SCE1572_928	A9GVM0_SORC5/29-281	81.35	252			29	280	1	252	1.00E-103	372
SCE1572_939	A9EMV5_SORC5/25-308	86.01	286			24	309	1	284	1.00E-123	439
SCE1572_940	A9EMV8_SORC5/15-289	93.09	275			17	291	1	275	8.00E-158	553
SCE1572_962	F2UKF9_9EUKA	54.45	696			5	695	9	704	0	766
SCE1572_977	A9EN27_SORC5/21-272	99.6	252			21	272	1	252	2.00E-149	525
SCE1572_993	B9RTW7_RICCO	35.35	198			5	194	43	234	3.00E-16	82.4
SCE1572_1008	D3BJS3_POLPA	26.92	442			7	437	815	1249	5.00E-32	135
SCE1572_1013	A9ENB1_SORC5/68-351	91.9	284			68	351	1	284	1.00E-143	506
SCE1572_1015	D0LZ14_HALO1	38.29	935			103	1019	163	1078	3.00E-148	523
SCE1572_1041	A9EU91_SORC5/223-477	58.1	253			342	594	1	253	7.00E-79	291
SCE1572_1051	B9RTW7_RICCO	32.98	188			65	243	38	219	1.00E-13	73.9
SCE1572_1054	A9FFW3_SORC5/24-336	88.82	313			16	328	1	313	1.00E-165	578
SCE1572_1075	A9VA90_MONBE	29.45	292			72	342	320	591	3.00E-13	73.2
SCE1572_1098	D0LZ14_HALO1	37.95	1199			105	1286	175	1345	1.00E-161	568
SCE1572_1168	F2EE39_HORVD	32.08	293			308	555	23	312	1.00E-24	112

SCE1572_1184	A9F932_SORC5/34-318	71.58	285	68	352	1	285	3.00E-117	419
SCE1572_1197	A9FYH6_SORC5/7-273	74.16	267	16	274	1	267	4.00E-110	396
SCE1572_1229	A9EQJ9_SORC5/6-267	50.38	264	5	266	1	262	7.00E-60	228
SCE1572_1230	A6G4E4_9DELT	30.17	633	1063	1634	589	1209	7.00E-50	196
SCE1572_1255	B8LDL2_THAPS	27.16	567	26	584	997	1484	2.00E-51	201
SCE1572_1256	Q9FF29_ARATH	26.35	296	189	471	14	250	3.00E-14	76.3
SCE1572_1294	A9EPH9_SORC5/19-285	91.79	268	19	286	1	267	1.00E-143	505
SCE1572_1295	A9EPI2_SORC5/10-279	88.52	270	10	279	1	270	9.00E-133	468
SCE1572_1308	F2UKF9_9EUKA	43.1	710	2	703	4	696	1.00E-153	540
SCE1572_1316	A9ETG2_SORC5/740-1011	97.43	272	381	652	1	272	1.00E-159	560
SCE1572_1319	A9ETG8_SORC5/12-270	93.05	259	12	270	1	259	3.00E-139	491
SCE1572_1322	A9FE17_SORC5/11-267	51.89	264	1	264	12	254	4.00E-67	252
SCE1572_1337	A9ETI8_SORC5/40-302	96.2	263	40	301	1	263	3.00E-145	511
SCE1572_1380	Q75J39_ORYSJ	31.4	293	362	624	51	315	3.00E-24	110
SCE1572_1389	E3X4G0_ANODA	35.16	256	39	287	40	283	2.00E-25	113
SCE1572_1402	D8LHV1_ECTSI	31.6	231	103	332	87	306	2.00E-12	71.6
SCE1572_1421	D0LYB2_HALO1	39.25	879	4	821	2	842	1.00E-122	437
SCE1572_1422	D0LYB2_HALO1	38.18	571	7	524	8	557	2.00E-76	283
SCE1572_1447	D7TTD5_VITVI	25.32	233	122	340	688	901	9.00E-12	68.2
SCE1572_1516	F2UKF9_9EUKA	40.94	149	2	145	8	156	8.00E-23	105
SCE1572_1525	A9EUD9_SORC5/28-288	99.6	250	1	250	12	261	4.00E-144	507
SCE1572_1539	A9EUI2_SORC5/20-285	95.49	266	20	285	1	266	2.00E-148	521
SCE1572_1569	B9RTW7_RICCO	32.45	188	19	197	44	219	1.00E-12	70.5
SCE1572_1610	A9EVB6_SORC5/189-453	97.74	265	189	453	1	265	1.00E-151	531
SCE1572_1633	A9EZT1_SORC5/15-309	87.8	295	15	300	1	295	4.00E-135	477
SCE1572_1649	D7FZX4_ECTSI	31.08	399	160	494	106	497	2.00E-28	123
SCE1572_1699	A9F066_SORC5/60-323	96.59	264	59	322	1	264	9.00E-152	532
SCE1572_1705	A9F084_SORC5/63-328	98.5	266	160	425	1	266	1.00E-155	545

SCE1572_1715	A9V4U4_MONBE	34.27	143	4	136	944	1080	4.00E-12	66.6
SCE1572_1733	E9CI33_9EUKA	47.8	205	206	408	70	265	9.00E-39	157
SCE1572_1768	D7FZX4_ECTSI	27.12	413	105	476	106	499	3.00E-18	90.1
SCE1572_1860	D7SRK5_VITVI	28.21	234	75	294	47	276	7.00E-13	72
SCE1572_1869	A9F1G8_SORC5/19-291	92.67	273	19	291	1	273	1.00E-144	508
SCE1572_1882	A9F694_SORC5/14-257	84.43	244	22	265	1	244	4.00E-112	402
SCE1572_1884	A9EV86_SORC5/15-281	67.42	267	11	273	1	267	1.00E-97	352
SCE1572_1889	B8LDL2_THAPS	22.43	437	196	598	1445	1868	2.00E-17	88.2
SCE1572_1903	F2UKF9_9EUKA	29.67	701	9	701	12	700	5.00E-91	332
SCE1572_1906	A9F6G8_SORC5/45-306	87.02	262	41	302	1	262	8.00E-126	446
SCE1572_1928	A9F6S1_SORC5/13-277	83.66	257	1	257	9	265	4.00E-126	446
SCE1572_1936	A9FE17_SORC5/11-267	55.81	258	13	270	1	255	5.00E-73	272
SCE1572_1936	D0LZ14_HALO1	34.97	1384	6	1321	9	1346	2.00E-179	626
SCE1572_1940	D7FKP6_ECTSI	54.43	237	2	233	121	353	4.00E-63	240
SCE1572_1941	D7FKP6_ECTSI	46.47	269	24	278	93	356	6.00E-54	207
SCE1572_2073	A9F816_SORC5/16-240	91.56	225	16	237	1	225	3.00E-109	392
SCE1572_2143	E9C274_9EUKA	29.73	185	412	596	1568	1745	2.00E-20	97.4
SCE1572_2170	A9FRK3_SORC5/74-345	95.22	272	97	368	1	272	5.00E-150	526
SCE1572_2171	A9FRJ9_SORC5/22-280	93.05	259	22	280	1	259	1.00E-139	492
SCE1572_2183	D0LYB2_HALO1	36.51	641	185	779	182	807	2.00E-73	274
SCE1572_2196	A9FUH6_SORC5/44-314	91.88	271	91	361	1	271	1.00E-145	512
SCE1572_2197	A9GRQ7_SORC5/16-276	88.12	261	16	274	1	261	1.00E-129	461
SCE1572_2206	B9RTW7_RICCO	31.98	197	3	192	38	219	3.00E-15	78.6
SCE1572_2220	A9F1G8_SORC5/19-291	75.09	273	19	291	1	273	2.00E-114	407
SCE1572_2238	A9FDG9_SORC5/21-281	96.92	260	20	279	1	260	2.00E-150	529
SCE1572_2239	A9FDH1_SORC5/20-281	88.55	262	20	281	1	262	3.00E-136	481
SCE1572_2241	A9FDG9_SORC5/21-281	60.62	259	7	264	1	259	1.00E-87	320
SCE1572_2242	A9FDJ3_SORC5/13-278	80.83	266	13	278	1	266	9.00E-119	422

SCE1572_2258	D0LZ14_HALO1	39.5	1395	2	1329	7	1346	0	800
SCE1572_2283	B5DPB6_DROPS	38.39	224	166	385	731	950	6.00E-36	149
SCE1572_2326	B9RTW7_RICCO	34.69	196	31	215	43	234	1.00E-20	97.1
SCE1572_2359	A9FIP5_SORC5/20-288	89.22	269	20	287	1	269	3.00E-125	443
SCE1572_2371	E9C274_9EUKA	37.04	162	245	406	1568	1721	8.00E-18	88.6
SCE1572_2410	E3PW85_CLOSD	38.69	168	140	304	1406	1570	1.00E-27	120
SCE1572_2441	A9FJE9_SORC5/231-472	92.56	242	231	472	1	242	2.00E-130	461
SCE1572_2487	A9FNZ9_SORC5/14-281	82.84	268	11	278	1	268	5.00E-131	464
SCE1572_2490	D7TTD5_VITVI	33.8	213	223	432	256	460	4.00E-26	115
SCE1572_2518	A9GT67_SORC5/13-276	71.1	263	13	273	1	263	4.00E-104	374
SCE1572_2519	D7TTD5_VITVI	26.39	341	107	429	121	458	6.00E-25	112
SCE1572_2544	A6G4E4_9DELT	31.65	752	717	1426	537	1260	9.00E-69	259
SCE1572_2588	D0LZ14_HALO1	39.93	1212	103	1290	163	1346	0	670
SCE1572_2590	Q097E7_STIAU/1-261	54.98	291	32	322	1	261	1.00E-77	288
SCE1572_2647	A9G8I3_SORC5/10-268	73.96	265	10	273	1	259	2.00E-111	399
SCE1572_2652	B8HVH1_CYAP4/7-265	54.92	264	7	266	1	259	4.00E-83	306
SCE1572_2679	B9RTW7_RICCO	28.14	231	4	216	36	262	6.00E-15	77.8
SCE1572_2690	A9FJE9_SORC5/231-472	64.56	237	221	456	1	237	2.00E-82	303
SCE1572_2701	D0LZ14_HALO1	38.18	1362	2	1303	7	1346	0	731
SCE1572_2715	A9FQS5_SORC5/56-333	95.68	278	56	333	1	278	6.00E-145	510
SCE1572_2749	A9FUX8_SORC5/6-235	92.14	229	116	344	1	229	4.00E-125	444
SCE1572_2826	B9RTW7_RICCO	33.16	196	7	195	42	229	1.00E-15	79.7
SCE1572_2832	A9VA07_MONBE	45.29	340	13	342	596	930	3.00E-69	259
SCE1572_2934	A9G0Y5_SORC5/28-295	86.94	268	61	328	1	268	6.00E-134	473
SCE1572_2963	A9G147_SORC5/98-359	96.95	262	98	359	1	262	3.00E-144	507
SCE1572_2966	C0WK81_9CORY/14-268	39.31	262	33	290	1	255	7.00E-39	158
SCE1572_2987	A9G170_SORC5/33-336	95.07	304	33	336	1	304	7.00E-163	570
SCE1572_2996	A9G190_SORC5/32-292	84.91	265	44	308	1	261	2.00E-119	426

SCE1572_3033	Q23ZG6_TETTH	24.95	457	13	440	495	944	4.00E-37	153
SCE1572_3041	B4KV63_DROMO	34.03	191	479	661	756	941	3.00E-14	77.4
SCE1572_3114	F2UAL0_9EUKA	40.45	89	28	116	1280	1366	1.00E-10	64.7
SCE1572_3137	D0LZ14_HALO1	37.6	1367	1	1297	12	1344	0	713
SCE1572_3141	A9GTU1_SORC5/18-277	56.15	260	7	266	1	260	1.00E-81	301
SCE1572_3158	D0LZ14_HALO1	36.94	1367	2	1297	7	1344	0	668
SCE1572_3180	A9VA07_MONBE	42.66	354	63	406	596	944	1.00E-69	260
SCE1572_3183	A9V4U4_MONBE	41.98	131	9	137	954	1084	4.00E-28	121
SCE1572_3267	A9G5X1_SORC5/59-323	95.47	265	93	357	1	265	8.00E-146	513
SCE1572_3271	A9G5Y1_SORC5/47-312	98.12	266	26	291	1	266	3.00E-151	531
SCE1572_3291	A9F8N6_SORC5/25-290	55.35	271	19	287	1	266	8.00E-79	290
SCE1572_3371	D3BJS3_POLPA	29.08	447	4	433	830	1268	9.00E-43	171
SCE1572_3400	A9G6S7_SORC5/13-281	96.64	268	13	280	1	268	4.00E-152	534
SCE1572_3426	Q15300_HUMAN	33.33	90	370	459	155	239	2.00E-11	67.8
SCE1572_3444	B2J8F9_NOSP7/7-265	49.8	247	7	253	13	259	3.00E-69	259
SCE1572_3509	A9GA77_SORC5/13-209	90.86	197	13	209	1	197	9.00E-97	351
SCE1572_3555	D0LZ14_HALO1	40.06	1358	2	1297	7	1346	0	799
SCE1572_3557	B9SC01_RICCO	29.83	295	232	509	61	332	4.00E-19	93.2
SCE1572_3564	D0LZ14_HALO1	37.98	1364	2	1294	9	1346	0	655
SCE1572_3565	A9FE17_SORC5/11-267	61.66	253	9	261	1	253	1.00E-84	309
SCE1572_3568	D0LZ14_HALO1	37.21	1360	2	1295	9	1346	0	656
SCE1572_3602	A9GN95_SORC5/15-286	60.44	273	57	329	1	272	2.00E-81	299
SCE1572_3611	D0LYB2_HALO1	37.44	844	7	818	3	808	1.00E-119	428
SCE1572_3648	A9EWS2_SORC5/19-281	90.87	263	24	286	1	263	2.00E-137	484
SCE1572_3687	D7TTD5_VITVI	26.56	384	59	419	95	470	7.00E-23	105
SCE1572_3742	Q7UX63_RHOBA/29-285	38.61	259	48	301	1	257	2.00E-37	154
SCE1572_3748	A9GAS9_SORC5/19-278	93.9	246	1	246	15	260	3.00E-128	456
SCE1572_3762	A9GAU7_SORC5/11-280	97.04	270	11	280	1	270	5.00E-150	528

SCE1572_3765	B4KV63_DROMO	36.52	230	139	367	716	941	3.00E-36	149
SCE1572_3771	A9GAX7_SORC5/14-273	86.54	260	226	485	1	260	9.00E-123	436
SCE1572_3808	A9GB51_SORC5/18-289	93.01	272	18	289	1	272	2.00E-143	504
SCE1572_3832	A9GB92_SORC5/15-298	91.55	284	15	298	1	284	1.00E-151	531
SCE1572_3852	A9GBB7_SORC5/15-282	92.91	268	15	282	1	268	2.00E-139	491
SCE1572_3872	E3PW85_CLOSD	35	160	164	323	1415	1571	2.00E-24	109
SCE1572_3891	A9GEK8_SORC5/15-277	95.44	263	41	303	1	263	2.00E-138	488
SCE1572_3909	A9VA07_MONBE	30.82	717	34	703	601	1247	7.00E-70	262
SCE1572_3923	A9GEU8_SORC5/15-246	82.88	222	15	233	1	222	2.00E-87	320
SCE1572_3948	A9GF00_SORC5/16-284	97.4	269	21	289	1	269	3.00E-157	550
SCE1572_3949	A9GF02_SORC5/17-290	90.15	274	17	290	1	274	2.00E-133	473
SCE1572_3968	A9GF27_SORC5/18-299	93.62	282	18	299	1	282	3.00E-153	538
SCE1572_3971	A9GF34_SORC5/16-292	97.47	277	16	292	1	277	5.00E-158	554
SCE1572_3980	F2E4N3_HORVD	25.66	339	46	358	34	367	4.00E-18	89
SCE1572_4022	D3BJS3_POLPA	26.42	405	37	422	829	1222	9.00E-28	121
SCE1572_4043	A9GFI8_SORC5/49-315	98.13	267	49	315	1	267	4.00E-154	540
SCE1572_4045	A9GFJ3_SORC5/905-1172	96.64	268	898	1165	1	268	1.00E-152	536
SCE1572_4065	A9GFN9_SORC5/14-285	90.16	244	1	244	29	272	9.00E-130	459
SCE1572_4072	A9GFQ7_SORC5/31-302	98.9	272	26	297	1	272	3.00E-162	568
SCE1572_4101	D7TTD5_VITVI	26.14	352	123	446	121	468	3.00E-16	83.2
SCE1572_4129	D3BJS3_POLPA	24.69	401	8	401	829	1223	5.00E-24	108
SCE1572_4162	B9RTW7_RICCO	34.36	195	4	191	38	224	5.00E-13	71.2
SCE1572_4165	B9RTW7_RICCO	31.9	232	5	226	38	258	8.00E-15	77
SCE1572_4185	A9GIL2_SORC5/14-269	93.75	256	14	269	1	256	4.00E-133	472
SCE1572_4342	A9GJC9_SORC5/88-343	92.97	256	83	338	1	256	3.00E-130	462
SCE1572_4349	A9G8J3_SORC5/18-265	42.86	189	80	262	60	248	1.00E-34	145
SCE1572_4350	D0LZ14_HALO1	41	944	2	870	7	930	3.00E-151	533
SCE1572_4364	C3XWU6_BRAFL	33.71	353	92	439	785	1109	9.00E-41	164

SCE1572_4372	D8LQ15_ECTSI	45.68	243	83	318	597	839	3.00E-49	194
SCE1572_4375	A9FDB2_SORC5/22-188	65.81	155	17	170	1	155	4.00E-54	209
SCE1572_4463	A9GQ42_SORC5/62-327	75.57	262	50	308	1	262	3.00E-107	385
SCE1572_4493	A9G1R5_SORC5/6-275	87.78	270	157	426	1	270	9.00E-136	479
SCE1572_4540	A9GJS7_SORC5/31-311	76.16	281	44	322	1	281	1.00E-122	436
SCE1572_4558	A9GN95_SORC5/15-286	93.75	272	13	284	1	272	3.00E-142	500
SCE1572_4582	A9VA07_MONBE	44.32	352	829	1169	596	942	3.00E-77	287
SCE1572_4600	A9GNJ1_SORC5/16-306	91.75	291	16	306	1	291	7.00E-152	532
SCE1572_4662	D0LZ14_HALO1	39.48	1388	10	1337	15	1335	0	723
SCE1572_4675	A9GRN8_SORC5/20-297	88.85	269	20	288	1	269	1.00E-138	489
SCE1572_4692	A9F8N6_SORC5/25-290	56	275	316	588	1	266	2.00E-75	280
SCE1572_4725	B4D5D6_9BACT	30.86	175	412	585	886	1055	6.00E-11	66.2
SCE1572_4741	A9GRY1_SORC5/11-278	94.03	268	11	278	1	268	1.00E-114	409
SCE1572_4758	A6GDW6_9DELT	26.42	318	625	927	580	893	9.00E-12	69.7
SCE1572_4776	A9GS33_SORC5/10-280	95.94	271	10	280	1	271	3.00E-156	547
SCE1572_4809	A9GSA1_SORC5/16-290	93.45	275	16	288	1	275	7.00E-152	532
SCE1572_4846	D3BJS3_POLPA	25.78	419	9	411	815	1197	8.00E-16	82
SCE1572_4847	A9GSI1_SORC5/16-296	90.04	281	16	296	1	281	3.00E-139	490
SCE1572_4851	A6G4E4_9DELT	30.9	631	1089	1658	590	1209	1.00E-52	206
SCE1572_4861	D0LZ14_HALO1	39.69	1018	2	961	7	993	6.00E-163	571
SCE1572_4879	A9GSP6_SORC5/10-277	95.52	268	53	320	1	268	4.00E-145	511
SCE1572_4900	A9FJE9_SORC5/231-472	63.33	240	220	458	1	240	3.00E-82	302
SCE1572_4916	A9GVU5_SORC5/13-275	87.83	263	45	307	1	263	1.00E-132	469
SCE1572_4960	A9GW43_SORC5/19-293	89.09	275	19	292	1	275	4.00E-136	480
SCE1572_4965	A9GJS7_SORC5/31-311	69.74	271	1	269	12	281	1.00E-103	373
SCE1572_4984	A9GW92_SORC5/236-501	95.49	266	236	501	1	266	1.00E-149	525
SCE1572_5016	A9GWG4_SORC5/16-292	88.45	277	16	292	1	277	2.00E-146	515
SCE1572_5032	A9GWK1_SORC5/51-315	94.34	265	51	315	1	265	4.00E-145	510

SCE1572_5053	A9GS33_SORC5/10-280	58.15	270	10	279	1	270	6.00E-90	326
SCE1572_5061	E5SP72_TRISP	56.04	91	19	109	678	768	2.00E-25	109
SCE1572_5065	A9GWP7_SORC5/9-264	94.53	256	30	285	1	256	2.00E-141	497
SCE1572_5069	A6GDW6_9DELT	45.99	274	606	879	660	933	7.00E-50	196
SCE1572_5098	A9GWX6_SORC5/13-270	94.26	244	1	244	15	258	7.00E-139	489
SCE1572_5105	F2UKF9_9EUKA	39.86	148	2	143	8	148	3.00E-19	94
SCE1572_5119	A9GX30_SORC5/18-287	93.7	270	18	287	1	270	1.00E-148	523
SCE1572_5149	A6GDW6_9DELT	37.87	301	1013	1313	657	951	2.00E-29	128
SCE1572_5183	B9RTW7_RICCO	29.29	198	1	192	34	225	2.00E-11	65.9
SCE1572_5199	B9RTW7_RICCO	29.95	197	14	205	35	226	5.00E-12	68.2
SCE1572_5213	A9EPX8_SORC5/14-320	89.25	307	5	311	1	307	5.00E-152	533
SCE1572_5222	A9EPZ6_SORC5/98-351	91.34	254	98	351	1	254	1.00E-127	454
SCE1572_5251	A9EQ70_SORC5/13-281	95.54	269	13	281	1	269	3.00E-152	534
SCE1572_5254	A9EQ76_SORC5/30-377	84.44	347	30	375	1	347	2.00E-158	555
SCE1572_5259	A9EQ83_SORC5/28-318	88.7	292	40	331	1	291	6.00E-138	486
SCE1572_5269	A9EQA5_SORC5/46-335	97.24	290	22	311	1	290	1.00E-165	578
SCE1572_5318	B9RTW7_RICCO	27.89	190	6	186	40	225	1.00E-11	66.6
SCE1572_5332	A9EQJ9_SORC5/6-267	85.88	262	6	267	1	262	2.00E-126	450
SCE1572_5348	A9EQM0_SORC5/13-276	85.98	264	13	276	1	264	1.00E-132	469
SCE1572_5352	E9C1L0_9EUKA	31.53	222	421	641	935	1146	2.00E-20	98.2
SCE1572_5363	A9FX47_SORC5/11-274	59.47	264	42	303	1	264	5.00E-76	282
SCE1572_5365	A9G2X2_SORC5/56-320	66.42	265	31	292	1	265	1.00E-88	322
SCE1572_5389	A9EQW7_SORC5/16-262	91.9	247	9	255	1	247	1.00E-133	474
SCE1572_5405	A9ER29_SORC5/14-284	88.56	271	37	307	1	271	1.00E-126	449
SCE1572_5420	A9EVM0_SORC5/14-277	88.26	264	14	277	1	264	9.00E-141	496
SCE1572_5425	A9GS33_SORC5/10-280	55.56	270	55	322	1	270	6.00E-86	313
SCE1572_5440	A5BDW0_VITVI	26.29	251	3	213	1116	1365	4.00E-16	82
SCE1572_5449	D3BJS3_POLPA	24.01	404	26	420	829	1222	5.00E-27	119

SCE1572_5468	A9GTU1_SORC5/18-277	55.77	260		4	263	1	260	7.00E-81	298
SCE1572_5480	A9GTU1_SORC5/18-277	90	260		7	266	1	260	7.00E-139	491
SCE1572_5495	B4KV63_DROMO	33.16	190		488	668	756	940	8.00E-16	82.4
SCE1572_5590	A9FDG9_SORC5/21-281	48.08	260		20	279	1	259	6.00E-63	237
SCE1572_5597	E3X4G0_ANODA	30.61	330		20	334	7	321	3.00E-35	146
SCE1572_5606	A9EWN7_SORC5/34-297	91.29	264		64	327	1	264	3.00E-129	457
SCE1572_5640	A9F619_SORC5/13-273	79.31	261		9	267	1	261	8.00E-112	401
SCE1572_5644	A9F619_SORC5/13-273	80.25	81		1	81	138	218	5.00E-35	142
SCE1572_5645	A9F619_SORC5/13-273	71.43	84		9	92	1	84	1.00E-28	120
SCE1572_5647	D0LZ14_HALO1	43.91	476		32	506	435	899	7.00E-106	380
SCE1572_5658	A9EWZ2_SORC5/22-300	88.17	279		40	315	1	279	2.00E-140	496
SCE1572_5689	A9EX99_SORC5/14-287	90.91	275		28	302	1	274	2.00E-133	471
SCE1572_5727	A9F1W2_SORC5/19-315	95.29	297		98	394	1	297	5.00E-154	540
SCE1572_5800	A9F2K1_SORC5/24-292	95.91	269		24	292	1	269	6.00E-153	536
SCE1572_5808	A9F2M6_SORC5/7-264	97.29	258		7	264	1	258	1.00E-139	491
SCE1572_5809	C1A3Y3_GEMAT/13-268	30.84	214		71	284	68	256	7.00E-14	75.9
SCE1572_5837	A9F2U6_SORC5/16-277	91.6	262		16	277	1	262	1.00E-137	486
SCE1572_5839	A9FDG9_SORC5/21-281	54.75	263		37	299	1	259	3.00E-74	275
SCE1572_5876	A9F2Y6_SORC5/28-293	78.73	268		23	290	1	266	3.00E-115	411
SCE1572_5963	B5DPB6_DROPS	31.91	257		178	428	700	944	1.00E-20	97.8
SCE1572_5967	A6G4E4_9DELT	32.77	528		47	565	829	1260	2.00E-43	174
SCE1572_5997	A9F3J7_SORC5/16-278	88.97	263		16	278	1	263	2.00E-135	478
SCE1572_6031	D3BJS3_POLPA	25.62	402		78	468	844	1223	2.00E-24	110
SCE1572_6038	A9F865_SORC5/77-280	93.63	204		228	431	1	204	4.00E-104	374
SCE1572_6062	A9F8E9_SORC5/10-280	95.94	271		10	280	1	271	7.00E-153	536
SCE1572_6075	D3BJS3_POLPA	25.81	465		18	473	816	1274	3.00E-36	149
SCE1572_6092	A9EVM0_SORC5/14-277	49.8	255		1	252	12	264	4.00E-63	237
SCE1572_6096	A9GRQ7_SORC5/16-276	46.8	250		10	254	15	261	1.00E-51	201

SCE1572_6098	A9F8N6_SORC5/25-290	90.23	266	95	360	1	266	4.00E-139	491
SCE1572_6122	A9F8W3_SORC5/41-296	97.27	256	41	296	1	256	5.00E-148	520
SCE1572_6127	A9F8Y3_SORC5/32-301	92.96	270	32	301	1	270	5.00E-143	503
SCE1572_6128	B9G748_ORYSJ	35.36	362	47	393	45	404	4.00E-53	205
SCE1572_6133	A9F900_SORC5/96-359	97.73	264	66	329	1	264	2.00E-152	534
SCE1572_6155	A9F950_SORC5/52-318	86.14	267	52	318	1	267	3.00E-133	470
SCE1572_6158	A9F9F8_SORC5/44-308	85.66	265	46	308	1	265	2.00E-118	421
SCE1572_6159	A9F9G1_SORC5/55-317	80.08	266	46	311	1	263	6.00E-100	361
SCE1572_6164	A9F9M5_SORC5/12-288	84.64	280	12	291	1	277	5.00E-122	433
SCE1572_6165	D0LZ14_HALO1	38.07	935	2	867	7	923	8.00E-144	508
SCE1572_6166	A9F9N0_SORC5/11-276	92.59	270	11	280	1	266	2.00E-145	511
SCE1572_6182	A9GBB7_SORC5/15-282	54.28	269	19	281	1	267	8.00E-71	264
SCE1572_6183	C3XWU6_BRAFL	34.08	358	305	653	840	1194	3.00E-49	193
SCE1572_6194	A9GS33_SORC5/10-280	53.33	270	10	279	1	270	1.00E-80	295
SCE1572_6202	D0LZ14_HALO1	42.3	1357	2	1291	7	1346	0	870
SCE1572_6203	B9RTW7_RICCO	40.17	234	8	236	39	266	4.00E-36	148
SCE1572_6277	B9RTW7_RICCO	36.36	198	4	192	38	229	3.00E-18	88.6
SCE1572_6322	E5SP72_TRISP	49.45	91	64	153	678	767	2.00E-15	79
SCE1572_6323	C3ZQY6_BRAFL	27.31	249	50	291	69	316	2.00E-15	80.1
SCE1572_6324	A9FF01_SORC5/27-278	97.22	252	27	278	1	252	1.00E-138	488
SCE1572_6382	D0LZ14_HALO1	39.71	1365	2	1286	7	1346	0	806
SCE1572_6384	A9FFI9_SORC5/13-292	86.43	280	13	292	1	280	9.00E-141	494
SCE1572_6462	A9GQX2_SORC5/13-284	52.81	267	3	266	6	272	4.00E-75	278
SCE1572_6468	E4YNA2_OIKDI	29.39	228	135	349	1287	1511	7.00E-15	79
SCE1572_6475	D7TTD5_VITVI	26.24	343	70	391	121	460	5.00E-22	102
SCE1572_6504	B9RTW7_RICCO	30.48	187	9	194	38	219	3.00E-15	79
SCE1572_6512	D7TTD5_VITVI	24.85	326	67	373	121	441	5.00E-20	95.5
SCE1572_6547	A9FS91_SORC5/8-267	53.19	188	21	208	75	260	2.00E-50	198

SCE1572_6563	B9RTW7_RICCO	33.85	192	17	199	38	225	3.00E-21	99
SCE1572_6585	A9GTY9_SORC5/10-268	47.43	175	1	165	93	259	1.00E-37	155
SCE1572_6594	E9CI33_9EUKA	45.15	206	236	440	36	241	6.00E-39	158
SCE1572_6634	A6G4E4_9DELT	33.76	702	1567	2237	537	1219	8.00E-68	256
SCE1572_6638	A9GS33_SORC5/10-280	57.92	259	1	258	12	269	7.00E-83	303
SCE1572_6657	A6FAX0_9GAMM/20-314	54.55	286	41	326	1	286	3.00E-87	320
SCE1572_6664	B7P9G7_IXOSC	29.79	235	137	362	578	798	1.00E-13	74.3
SCE1572_6688	A9F932_SORC5/34-318	73.33	285	377	661	1	285	8.00E-117	418
SCE1572_6735	D3BJS3_POLPA	28.33	466	74	514	822	1276	2.00E-37	154
SCE1572_6742	A9FL39_SORC5/55-319	89.33	253	69	319	1	253	4.00E-125	444
SCE1572_6800	A9FLI0_SORC5/13-287	94.18	275	35	309	1	275	5.00E-154	540
SCE1572_6833	A9FR17_SORC5/15-284	88.15	270	15	284	1	270	3.00E-137	484
SCE1572_6862	A9FRA7_SORC5/27-289	92.4	263	82	344	1	263	4.00E-144	507
SCE1572_6872	A9FRE2_SORC5/13-279	89.14	267	13	279	1	267	5.00E-130	460
SCE1572_6887	D0LZ14_HALO1	38.34	193	3	192	1157	1346	1.00E-12	68.9
SCE1572_6892	D0LZ14_HALO1	39.38	833	2	775	7	828	1.00E-138	490
SCE1572_6893	D0LZ14_HALO1	39.13	1362	2	1294	7	1346	0	779
SCE1572_6894	D0LZ14_HALO1	38.68	1352	2	1291	7	1346	0	758
SCE1572_6921	A9FP27_SORC5/11-267	95.33	257	11	267	1	257	3.00E-126	449
SCE1572_6948	A9GQV1_SORC5/7-266	57.09	261	7	267	1	260	2.00E-80	297
SCE1572_6974	D0LZ14_HALO1	40.34	932	4	868	9	917	3.00E-156	549
SCE1572_6983	A9FRW7_SORC5/16-282	90.26	267	74	340	1	267	7.00E-139	491
SCE1572_7026	B9G748_ORYSJ	29.65	226	277	498	70	286	3.00E-15	79.7
SCE1572_7035	A9FS85_SORC5/37-352	84.15	347	37	383	1	316	6.00E-137	484
SCE1572_7045	A5D1B0_PELTS/10-265	38.52	257	53	306	1	255	4.00E-49	192
SCE1572_7065	A9GS33_SORC5/10-280	54.44	270	10	279	1	270	2.00E-83	305
SCE1572_7076	A9FSE5_SORC5/14-280	91.39	267	14	280	1	267	6.00E-139	491
SCE1572_7098	A9F7S7_SORC5/16-279	86.74	264	16	279	1	264	2.00E-127	451

SCE1572_7229	A9FX40_SORC5/39-310	90.81	272			121	392	1	272	3.00E-142	501
SCE1572_7235	A9FX47_SORC5/11-274	81.82	264			42	304	1	264	2.00E-115	413
SCE1572_7236	A9FX52_SORC5/61-318	94.19	258			64	321	1	258	1.00E-139	492
SCE1572_7241	A9GRQ7_SORC5/16-276	53.64	261			55	313	1	261	2.00E-72	270
SCE1572_7268	A9FXC4_SORC5/66-318	82.68	254			63	316	1	253	2.00E-112	403
SCE1572_7270	A9FXD2_SORC5/32-294	88.21	263			31	293	1	263	2.00E-131	464
SCE1572_7299	A9GA96_SORC5/7-269	84.03	263			7	266	1	263	9.00E-126	447
SCE1572_7311	A9FYH6_SORC5/7-273	78.65	267			7	265	1	267	2.00E-117	420
SCE1572_7326	A9FYJ4_SORC5/24-284	88.51	261			85	345	1	261	7.00E-130	459
SCE1572_7338	A9FYM0_SORC5/12-281	95.93	246			2	247	25	270	8.00E-138	486
SCE1572_7353	E9CJ13_9EUKA	44.54	119			75	191	315	431	2.00E-23	107
SCE1572_7354	A9VAH9_MONBE	28.92	325			366	674	68	374	9.00E-22	102
SCE1572_7360	A9G2H5_SORC5/75-335	95.02	261			75	335	1	261	8.00E-146	513
SCE1572_7397	A9G2M3_SORC5/18-300	92.58	283			9	291	1	283	3.00E-133	471
SCE1572_7413	D7FZX4_ECTSI	30.58	399			171	505	106	497	5.00E-27	119
SCE1572_7427	A9F932_SORC5/34-318	62.93	294			84	377	1	285	2.00E-101	367
SCE1572_7443	A9FKG8_SORC5/47-312	55.81	267			38	300	1	266	1.00E-69	260
SCE1572_7456	A9G394_SORC5/21-294	90.88	274			21	294	1	274	2.00E-145	511
SCE1572_7473	A9G3H0_SORC5/24-196	96.53	173			24	196	1	173	4.00E-88	321
SCE1572_7501	A9G3U5_SORC5/23-287	93.58	265			23	287	1	265	1.00E-144	509
SCE1572_7543	D7TTD5_VITVI	22.72	471			29	481	34	480	2.00E-17	87.4
SCE1572_7579	A9G7V5_SORC5/54-335	96.45	282			54	335	1	282	3.00E-160	560
SCE1572_7601	A9G814_SORC5/50-310	91.57	261			49	309	1	261	5.00E-132	466
SCE1572_7612	D0LJH9_HALO1	30.22	460			173	613	529	917	3.00E-21	100
SCE1572_7621	B9RTW7_RICCO	32.49	197			23	216	35	224	3.00E-15	79.3
SCE1572_7637	E3X4G0_ANODA	32.77	296			1	291	14	293	5.00E-30	128
SCE1572_7641	A9G8A9_SORC5/19-269	99.2	251			19	269	1	251	4.00E-148	520
SCE1572_7643	A9G8B3_SORC5/33-299	92.88	267			48	314	1	267	5.00E-151	530

SCE1572_7669	B9L1Q1_THERP/10-268	41.73	266	336	592	1	258	3.00E-38	156
SCE1572_7697	A9G8G3_SORC5/22-297	93.12	276	40	315	1	276	2.00E-152	535
SCE1572_7707	A9G8K4_SORC5/15-290	93.09	275	15	289	1	275	9.00E-151	529
SCE1572_7865	A9GC13_SORC5/22-332	89.51	305	1	303	7	311	2.00E-138	488
SCE1572_7872	A9GC29_SORC5/7-277	96.31	271	7	277	1	271	3.00E-151	530
SCE1572_7879	D3BJS3_POLPA	28.68	401	5	397	825	1222	4.00E-42	169
SCE1572_7916	B9S6C8_RICCO	24.15	414	78	474	29	352	4.00E-13	73.2
SCE1572_7931	A9GCF7_SORC5/32-301	93.36	271	32	302	1	270	1.00E-144	508
SCE1572_7938	A9GCH4_SORC5/10-276	93.26	267	10	276	1	267	2.00E-147	518
SCE1572_7942	Q23ZG6_TETTH	23	213	137	334	625	835	4.00E-13	73.9
SCE1572_7955	A9GCK3_SORC5/48-322	85.82	275	15	289	1	275	2.00E-139	491
SCE1572_7984	A9GCS7_SORC5/22-306	92.28	285	22	306	1	285	3.00E-147	518
SCE1572_8190	A6G4E4_9DELT	27.34	578	602	1160	648	1216	4.00E-37	154
SCE1572_8240	A9GGJ5_SORC5/9-279	82.33	283	9	291	1	271	3.00E-124	440
SCE1572_8250	F2UKF9_9EUKA	27.89	484	6	457	9	474	3.00E-38	156
SCE1572_8287	A9GGW8_SORC5/20-305	94.41	286	20	305	1	286	3.00E-150	526
SCE1572_8288	B0VGL8_CLOAI	27.39	376	123	456	251	592	3.00E-16	83.2
SCE1572_8321	A9GH81_SORC5/34-292	94.21	259	38	296	1	259	3.00E-136	481
SCE1572_8378	A9GJX9_SORC5/10-273	87.5	264	5	268	1	264	2.00E-123	437
SCE1572_8383	C8RRI2_CORJE/14-279	30.83	266	9	256	1	264	1.00E-22	103
SCE1572_8391	D0LZ14_HALO1	39.99	1353	2	1278	7	1344	0	758
SCE1572_8403	E4XBZ6_OIKDI	28.65	192	105	292	1678	1869	4.00E-16	80.1
SCE1572_8417	A9GKG4_SORC5/22-288	88.76	267	22	288	1	267	1.00E-128	455
SCE1572_8429	D7TTD5_VITVI	26.49	302	142	426	179	480	3.00E-15	79.7
SCE1572_8434	A9GKK0_SORC5/84-246	92.41	158	84	239	1	158	1.00E-67	254
SCE1572_8448	A9GJS7_SORC5/31-311	79.36	281	104	382	1	281	4.00E-129	458
SCE1572_8495	D0LZ14_HALO1	37.09	1146	24	1103	7	1141	2.00E-171	600
SCE1572_8496	D0LZ14_HALO1	39.91	847	94	932	176	1015	4.00E-142	503

SCE1572_8499	D0LZ14_HALO1	37.51	909	2	802	7	905	7.00E-128	454
SCE1572_8524	A9GNU1_SORC5/8-279	91.57	261	1	261	12	272	4.00E-140	494
SCE1572_8533	A9GNW1_SORC5/30-305	95.65	276	9	284	1	276	3.00E-153	537
SCE1572_8597	D7FZX4_ECTSI	43.19	426	65	476	106	521	2.00E-70	264
SCE1572_8679	B9RTW7_RICCO	30.92	207	2	199	40	242	1.00E-16	83.6
SCE1572_8698	D0LZ14_HALO1	40.28	1003	13	950	7	981	0	630
SCE1572_8739	A9GT67_SORC5/13-276	87.12	264	35	298	1	264	4.00E-136	480
SCE1572_8749	B4CYY7_9BACT	27.67	253	91	302	722	951	3.00E-14	76.6
SCE1572_8762	D0LZ14_HALO1	39.16	835	2	775	7	827	3.00E-135	479
SCE1572_8765	A9F6M3_SORC5	55.01	349	1	336	1	347	4.00E-91	332
SCE1572_8775	D0LZ14_HALO1	28.75	546	9	528	825	1346	4.00E-34	142
SCE1572_8822	B9RTW7_RICCO	32.84	204	1	198	34	224	7.00E-15	77.4
SCE1572_8834	A9GC88_SORC5/32-303	66.18	272	138	408	1	272	4.00E-100	362
SCE1572_8876	B8LDL2_THAPS	26.43	488	77	556	997	1431	1.00E-48	192
SCE1572_8886	A9GTY0_SORC5/11-268	96.9	258	11	268	1	258	1.00E-142	503
SCE1572_8903	E9C7Z1_9EUKA	31.51	219	156	354	271	485	9.00E-14	74.7
SCE1572_8954	A9GX99_SORC5/49-311	90.11	263	9	271	1	263	1.00E-138	489
SCE1572_8968	D0LYB2_HALO1	35.9	493	43	512	349	814	1.00E-44	178
SCE1572_8987	A9GXH6_SORC5/24-319	82.83	297	24	320	1	296	2.00E-135	478
SCE1572_9027	A9GXN7_SORC5/42-300	88.46	260	43	302	1	259	8.00E-127	450
SCE1572_9056	A9VAH9_MONBE	31.42	662	45	678	81	733	1.00E-59	228
SCE1572_9060	A6G4E4_9DELT	27.73	815	523	1227	506	1260	3.00E-38	157
SCE1572_9064	A9VAH9_MONBE	32.48	391	69	446	76	466	4.00E-32	135
SCE1572_9065	Q7PTP9_ANOGA	32.27	220	344	559	818	1030	2.00E-18	90.9
SCE1572_9071	A9GXY7_SORC5/124-394	94.96	258	128	385	14	271	1.00E-142	503
SCE1572_9073	A9VA81_MONBE	34.14	249	130	366	130	353	3.00E-21	100
SCE1572_9075	A9GJS7_SORC5/31-311	80	285	103	387	1	281	9.00E-132	467
SCE1572_9112	A9GYC7_SORC5/46-317	91.94	273	44	316	1	272	1.00E-140	495

SCE1572_9177	A9ERD0_SORC5/20-276	85.99	257			20	276	1	257	5.00E-124	441
SCE1572_9204	A9ERQ0_SORC5/24-283	90	260			47	306	1	260	2.00E-135	478
SCE1572_9234	Q098I7_STIAU/99-355	71.21	257			105	360	1	257	3.00E-100	362
SCE1572_9273	A9ES80_SORC5/13-299	81.47	313			26	338	1	287	3.00E-130	460
SCE1572_9274	A9ES85_SORC5/18-279	91.98	262			18	279	1	262	1.00E-136	482
SCE1572_9286	A9ESD5_SORC5/69-334	92.11	266			11	276	1	266	4.00E-143	503
SCE1572_9290	A9ESE9_SORC5/19-289	98.44	257			1	257	15	271	6.00E-149	524
SCE1572_9346	A9ESY9_SORC5/122-403	95.74	282			122	403	1	282	7.00E-151	530
SCE1572_9383	B4KV63_DROMO	33.91	230			160	388	714	940	5.00E-36	149
SCE1572_9387	A9EXL8_SORC5/33-306	99.27	274			33	306	1	274	4.00E-165	577
SCE1572_9440	A9EY93_SORC5/26-264	94.14	239			14	252	1	239	4.00E-128	454
SCE1572_9453	A9FX52_SORC5/61-318	52.71	258			47	304	1	258	5.00E-75	277
SCE1572_9454	A9FX47_SORC5/11-274	56.32	261			46	301	4	264	4.00E-69	259
SCE1572_9464	A9EYF1_SORC5/26-299	95.26	274			24	297	1	274	2.00E-139	491
SCE1572_9490	A9EYQ5_SORC5/13-322	92.26	310			16	325	1	310	2.00E-166	581
SCE1572_9503	A5BUK4_VITVI	38.36	73			5	77	38	110	4.00E-11	63.5
SCE1572_9529	A9EZ28_SORC5/20-279	93.85	260			20	279	1	260	7.00E-142	500
SCE1572_9534	A9EZ47_SORC5/30-295	86.84	266			26	286	1	266	2.00E-123	439
SCE1572_9543	E9CFQ5_9EUKA	32.68	205			167	344	231	433	5.00E-20	95.5
SCE1572_9561	Q099F0_STIAU/22-311	55.81	301			53	347	1	290	1.00E-76	284
SCE1572_9570	A9GTY9_SORC5/10-268	47.69	260			12	271	1	259	4.00E-61	233
SCE1572_9627	B8LDL2_THAPS	23.81	483			1	472	1038	1467	2.00E-32	139
SCE1572_9635	E5SP72_TRISP	41.23	114			204	313	653	765	8.00E-13	71.2
SCE1572_9698	A9F548_SORC5/73-334	90.84	262			88	349	1	262	8.00E-134	472
SCE1572_9699	A9F553_SORC5/15-290	89.86	276			15	290	1	276	7.00E-142	499
SCE1572_9718	E9C1L0_9EUKA	32.08	212			210	421	955	1155	7.00E-22	101
SCE1572_9733	A9F5E0_SORC5/14-276	93.16	263			14	276	1	263	1.00E-146	515
SCE1572_9768	A9F5P2_SORC5/100-253	81.82	154			100	250	1	154	3.00E-62	234

SCE1572_9776	A9F5R7_SORC5/10-285	89.49	276	37	312	1	276	2.00E-137	485
SCE1572_9812	A9FA64_SORC5/37-294	73.66	262	16	277	1	258	8.00E-110	395
SCE1572_9849	A9FAC8_SORC5/14-277	93.94	264	14	277	1	264	1.00E-149	525
SCE1572_9893	A6G4E4_9DELT	30.84	454	508	955	788	1197	3.00E-36	151
SCE1572_9895	A9FAX2_SORC5/29-287	95.75	259	29	287	1	259	2.00E-143	505
SCE1572_9959	A6GDW6_9DELT	42.6	986	90	1024	29	1004	3.00E-140	496
SCE1572_10034	A9FG39_SORC5/21-290	90	270	25	294	1	270	7.00E-143	503
SCE1572_10048	A9FG77_SORC5/27-293	94.38	267	27	293	1	267	7.00E-151	529
SCE1572_10051	A9FG88_SORC5/13-278	96.62	266	77	342	1	266	2.00E-149	525
SCE1572_10155	A9FH30_SORC5/261-495	94.89	235	256	490	1	235	9.00E-116	413
SCE1572_10170	A9FH69_SORC5/13-277	93.21	265	13	276	1	265	3.00E-139	491
SCE1572_10242	A9F6M3_SORC5	57.64	314	1	303	1	313	2.00E-90	329
SCE1572_10268	Q23ZG6_TETTH	26.18	359	145	466	619	964	1.00E-22	105
SCE1572_10276	E3PW85_CLOSD	39.24	158	141	298	1414	1569	7.00E-28	120
SCE1572_10294	E4YNA2_OIKDI	28.27	329	8	289	1152	1458	1.00E-16	84.7
SCE1572_10347	A9FHU2_SORC5/67-328	94.66	262	66	327	1	262	2.00E-145	511
SCE1572_10352	A6G4E4_9DELT	29.35	293	26	308	926	1213	3.00E-12	69.3
SCE1572_10373	D7SRK5_VITVI	30.12	259	50	289	24	276	7.00E-16	82
SCE1572_10391	D7TV01_VITVI	30.98	410	70	471	488	869	9.00E-39	157
SCE1572_10405	E7F1M5_DANRE	38.58	197	182	325	98	294	3.00E-12	69.7
SCE1572_10476	A9V9Z1_MONBE	31.82	286	1	263	948	1214	3.00E-22	102
SCE1572_10484	A9FMI8_SORC5/61-326	92.08	265	35	298	1	265	6.00E-141	496
SCE1572_10529	B4KV63_DROMO	27.74	274	403	663	677	939	1.00E-13	75.1
SCE1572_10654	A9FNS6_SORC5/28-292	98.11	265	18	282	1	265	2.00E-147	517
SCE1572_10719	E3PW85_CLOSD	35.47	172	541	712	1413	1578	4.00E-26	116
SCE1572_10740	B9RTW7_RICCO	33.5	203	1	198	34	224	1.00E-14	76.6
SCE1572_10785	A9FU56_SORC5/23-293	92.99	271	23	293	1	271	6.00E-152	533
SCE1572_10787	A9FU59_SORC5/20-287	91.04	268	59	326	1	268	2.00E-144	508

SCE1572_10800	A9G0Y5_SORC5/28-295	63.16	266	28	293	1	266	3.00E-93	338
SCE1572_10832	C3ZSQ8_BRAFL	40.32	124	498	621	1640	1761	3.00E-18	90.1
SCE1572_10834	Q23ZG6_TETTH	18.88	466	126	518	578	1032	3.00E-11	67.8
SCE1572_10838	D7FZX4_ECTSI	29.47	397	146	480	106	496	1.00E-19	94.7
SCE1572_10868	E9IEB9_SOLIN	39.81	103	228	329	237	337	1.00E-10	66.6
SCE1572_10892	A9FYY9_SORC5/32-312	93.59	281	32	312	1	281	4.00E-156	548
SCE1572_10919	B9RTW7_RICCO	30.9	233	2	230	34	258	6.00E-15	77.8
SCE1572_10924	A9FZ90_SORC5/7-269	89.74	273	7	279	1	263	5.00E-142	502
SCE1572_10928	A9FZ94_SORC5/32-347	91.77	316	32	347	1	316	2.00E-172	601
SCE1572_10995	A9G0J1_SORC5/93-365	88.64	273	16	288	1	273	4.00E-146	513
SCE1572_11043	A9G4G1_SORC5/11-269	92.66	259	11	269	1	259	3.00E-140	495
SCE1572_11046	A9G4G4_SORC5/74-341	83.08	260	74	333	1	259	1.00E-112	404
SCE1572_11048	A9G4H1_SORC5/35-296	94.44	234	1	234	27	260	3.00E-126	447
SCE1572_11102	B9RTW7_RICCO	30.89	191	3	189	38	224	1.00E-11	67
SCE1572_11141	A9V7M5_MONBE	29.36	327	404	717	71	382	4.00E-13	73.6
SCE1572_11143	B9RTW7_RICCO	32.12	193	6	192	38	224	3.00E-11	65.1
SCE1572_11169	D8LHV1_ECTSI	27.61	326	246	567	31	320	4.00E-13	73.2
SCE1572_11185	B9RTW7_RICCO	30.41	194	6	195	39	225	3.00E-12	69.3
SCE1572_11206	D0LZ14_HALO1	39.67	1220	103	1304	163	1344	0	723
SCE1572_11215	A9GJS7_SORC5/31-311	64.34	286	85	369	1	280	2.00E-97	352
SCE1572_11281	A9G9I7_SORC5/19-323	86.56	305	65	369	1	305	3.00E-141	499
SCE1572_11313	D7U846_VITVI	53.25	169	3	171	657	825	4.00E-45	177
SCE1572_11364	A9GD46_SORC5/12-271	89.62	260	12	271	1	260	3.00E-135	479
SCE1572_11382	A9GD84_SORC5/84-356	95.6	273	60	332	1	273	4.00E-149	523
SCE1572_11384	A9GD87_SORC5/29-299	97.42	271	29	299	1	271	1.00E-158	555
SCE1572_11385	D0LYB2_HALO1	24.13	630	395	986	345	937	9.00E-13	73.2
SCE1572_11393	A9GDB7_SORC5/16-307	93.14	277	31	306	16	292	6.00E-148	521
SCE1572_11400	A9GDD6_SORC5/1-262	93.89	262	27	288	1	262	2.00E-144	508

SCE1572_11413	D3BJS3_POLPA	27.9	405		23	419	822	1222	6.00E-40	162
SCE1572_11432	A9GDN2_SORC5/49-311	92.02	263		49	311	1	263	1.00E-137	485
SCE1572_11467	A9GS33_SORC5/10-280	65.93	270		10	278	1	270	5.00E-104	374
SCE1572_11561	A9GS33_SORC5/10-280	56.83	271		10	279	1	270	1.00E-84	309
SCE1572_11581	A9GHH8_SORC5/49-320	91.54	272		49	320	1	272	8.00E-134	472
SCE1572_11582	A9GHI1_SORC5/382-646	80.68	264		382	645	1	264	2.00E-108	389
SCE1572_11584	A9GHP7_SORC5/10-312	83.61	305		15	315	1	303	5.00E-127	450

* Blasting against three Pfam families, PF00069, PF00433 and PF07714 with a cutoff 1e-10

Supplementary Table S2. CRISPR statistics in Myxobacteria.

Strains	Genome size(bp)	Convincing CRISPR structure	Length (bp)*
Corallococcus coralloides DSM 2259	10,080,619	7	2805
Anaeromyxobacter dehalogenans 2CP-1	5,029,329	2	2131
Anaeromyxobacter dehalogenans 2CP-C	5,013,479	0	0
Anaeromyxobacter sp. Fw109-5	5,277,990	0	0
Anaeromyxobacter sp. K	5,061,632	2	4507
Haliangium ochraceum DSM 14365	9,446,314	3	58594
Myxococcus fulvus HW-1	9,003,593	4	5903
Myxococcus xanthus DK 1622	9,139,763	4	10137
Sorangium cellulosum 'So ce 56'	13,033,779	5	12726
Stigmatella aurantiaca DW4/3-1	10,260,756	1	176
Sorangium cellulosum So0157-2	14,782,435	3	6572

* Just statistics of convincing CRISPR structure.

Supplementary Table S3 Primer and statistical results of qPCR experiment.

Locus tag	Product name	Forward primer (5’-3’)	Reverse primer (5’-3’)	RNA-Seq Reads* (pH7.0/pH9.0)	logFC (RNA-Seq)**	**ΔΔCt (qPCR) #1**	**ΔΔCt (qPCR) #2**
SCE1572_3207	gliding motility protein MglA	GGCATCGTGTTCGTCAGC	GGAACGGGTTCAACATCG	91/439	-3.54	-1.03	-1.44
SCE1572_3710	RNA-binding protein	CGTCTTTACGTCGGCAATC	GCCTCGTTGACCTTGAGC	89/85	-5.05	-1.20	-1.97
SCE1572_6018	RNA polymerase sigma factor RpoD	GTGCGGAAGGTCCTGAAG	CGAGATCACGCTCTTGTCC	2640/712	0.62	0.3	0.61
SCE1572_6365	Macrolide-specific efflux protein MacA	GGTGGAGAAGGGGACGCT	GACCACGCCCTGGAACAC	108/500	-3.48	-3.54	-2.7
SCE1572_7438	Cell division protein FtsZ	CCTCCCCAAGGACCAGTG	AAGCCGAGGTAGCCGAAG	347/1317	-3.20	-0.47	-2.57
SCE1572_7464 (reference)	Urea ABC transporter, ATPase protein UrtD	GGACGGGCTCGACTTCTC	CACCTCCGTGGAACACCA	412/162	0.08	NA	NA
SCE1572_7815	Heat shock protein 60 family chaperone GroEL	AGGGCAAGGACTCGTTCG	TCGGTGGTGAGCATCAGG	3485/17984	-3.64	-1.62	-3.02
SCE1572_8437	Outer membrane protein A precursor	GTGGAGCACAACATCAAGCTG	TCGTCGTTCGTGAAGCAGA	153/25	1.34	0.04	-2

NA: Not applicable.

*These reads were produced by Illumina Sequencer directly.

** The logarithm values of fold-change (FC) were calculated from the reads after they were normalized by Fragments Per Kilobase of transcript per Million mapped reads (FPKM) using the edgeR program (Reference 53 in the text).

Supplementary Table S5. Statistics of big genome in prokaryote.

Organisms	Genome sizes	Genes	GC content	Niche	Accession
Sorangium cellulosum So0157-2	14.87	11599	0.721	Soil	CP003969
Sorangium cellulosum So ce 56	13.03	9384	0.714	Soil	AM746676
Streptomyces bingchenggensis BCW-1	11.94	10022	0.708	Soil	CP002047
Streptomyces violaceusniger Tü 4113	10.66	8482	0.709	Soil	CP002994
Streptosporangium roseum DSM 43021	10.34	8945	0.7086	Vegetable garden soil	CP001814
Stigmatella aurantiaca DW4/3-1	10.26	8352	0.675	Soil	CP002271
Amycolatopsis mediterranei S699	10.24	9575	0.713	Pine arboretum soil	CP002896
Amycolatopsis mediterranei U32	10.24	9228	0.713	Soil	CP002000
Catenulispora acidiphila DSM 44928	10.17	8914	0.6977	Forest soil, acidophilic	CP001700
Streptomyces hygroscopicus subsp. *jinggangensis* 5008	10.15	8849	0.719	Soil	CP003275
Streptomyces scabiei 87.22	10.15	8809	0.7	Deep-pitted scab lesion on a potato	FN554889
Corallococcus coralloides DSM 2259	10.08	8033	0.699	Soil	CP003389
Solibacter usitatus Ellin6076	9.97	7826	0.619	Soil	CP000473
Streptomyces davawensis JCM 4913	9.47	8503	0.7058	Soil, near Davao Air Port, Mindanao, the Philippines	PRJEB184
Haliangium ochraceum DSM 14365	9.45	6719	0.69	Sea grass samples	CP001804
Nocardia brasiliensis ATCC 700358 HUJEG-1	9.44	8414	0.68	Human mycetoma	AIHV00000000
Saccharothrix espanaensis DSM 44229	9.36	8427	0.7219	Soil	HE804045
Actinoplanes species SE50/110	9.24	8247	0.7132	Soil	CP003170
Bradyrhizobium japonicum USDA 6	9.21	8829	0.64	Glycine max， a soybean plant	AP012206
Myxococcus xanthus DK 1622	9.14	7331	0.689	Soil	CP000113
Chitinophaga pinensis DSM 2588	9.13	7192	0.4523	Infusion of litter from	CP001699

				the base of a pine tree	
Bradyrhizobium japonicum USDA 110	9.11	8317	0.64	Glycine max， a soybean plant	BA000040
Niastella koreensis GR20-10	9.03	7174	0.45	Korean ginseng soil	CP003178
Streptomyces avermitilis MA-4680	9.03	7580	0.707	Soil	BA000030
Myxococcus fulvus HW-1	9	7284	0.706	Marine	CP002830
Frankia species EAN1pec	8.98	7191	0.71	Soybean plant	CP000820
Frankia species EuI1c	8.82	7083	0.72	Soybean plant	CP002299
Kitasatospora setae KM-6054	8.78	7569	0.742	Soil	AP010968
Actinoplanes missouriensis 431	8.77	8125	0.71	Soil	AP012319
Paenibacillus mucilaginosus K02	8.77	7253	0.58	Soil	CP003422
Paenibacillus mucilaginosus 3016	8.74	7057	0.583	Rhizosphere soil	CP003235
Streptomyces coelicolor A3(2)	8.67	7825	0.721	Soil	AL645882
Paenibacillus mucilaginosus KNP414	8.66	7804	0.58	Soil	CP002869
Streptomyces griseus subsp. *griseus* NBRC 13350	8.55	7138	0.722	Soil	AP009493
Haliscomenobacter hydrossis DSM 1100	8.37	6451	0.471	Activated sludge samples	CP002691
Bradyrhizobium species BTAi1	8.26	7394	0.65	Soybean plant	CP000494
Actinosynnema mirum DSM 43827	8.25	6916	0.7371	Grass blade	CP001630
Nostoc punctiforme PCC 73102	8.23	6087	0.41	Symbiotic association with the gymnosperm cycad Macrozamia sp.	CP001037
Streptomyces venezuelae ATCC 10712	8.23	7453	0.724	Soil	FR845719
Saccharopolyspora erythraea NRRL 2338 (UCambridge)	8.21	7198	0.7129	Soil	AM420293
Spirosoma linguale DSM 74	8.08	6524	0.5015	Laboratory water bath	CP001769
Burkholderia xenovorans LB400	9.73	9059	0.63	PCB (polychlorinated biphenyl)-containing landfill	CP000270
Rhodococcus jostii RHA1	9.7	9242	0.67	Lindane-contaminated	CP000431

				soil	
Streptomyces sviceus ATCC 29083	9.31	8275	0.7	Soil	CM000951
Streptomyces clavuligerus ATCC 27064	9.13	7680	0.72	Soil	CM001015
Burkholderia gladioli BSR3	9.05	7493	0.67	Diseased rice sheath	CP002600
Burkholderia phymatum STM815	8.68	7574	0.62	Soybean plant	CP001043
Burkholderia cepacia 383	8.68	7828	0.66	Forest soil	CP000152
Cupriavidus necator N-1, ATCC 43291	8.48	7967	0.65	Soil, described as a nonobligate predator of soil bacteria and fungi and resistance against heavy metal	CP002878
Burkholderia vietnamiensis G4	8.39	7880	0.66	Hazardous environmental contaminants in groundwaters	CP000616
Acaryochloris marina MBIC11017	8.36	8488	0.47	Marine	CP000828
Burkholderia phytofirmans PsJN	8.21	7487	0.62	Glomus vesiculiferum-infected onion roots	CP001053
Streptomyces pristinaespiralis ATCC 25486	8.13	6937	0.71	Soil	CM000950
Streptomyces cattleya DSM 46488	8.09	7650	0.73	Soil	CP003219
Streptomyces cattleya NRRL 8057	8.09	7585	0.73	Soil	FQ859185
Burkholderia cenocepacia J2315	8.05	7229	0.67	Lungs of cystic fibrosis (CF) patients	AM747722

Supplementary Table S6. The sequencing library used for assembly of the So0157-2 genome.

Sample ID	Fragment length(bp)	Raw data(Mb)	Clean Data(Mb)	Pair-end type
So0157-2	274	2,022	869	(75;75)
So0157-2	491	1,862	1,102	(75,75)
So0157-2	242	376	353	(44,44)
So0157-2	6000	1,810	649	(44;44)
So0157-2	250	2,386	973	(70;70)
So0157-2	350	2,830	1,278	(44;44)
So0157-2	2500	679	525	(70;70)

Supplementary Table S10. The structure of the ribosomal RNA operon in So0157-2 and So ce56.

	Sorangium cellulosum So ce56				*S. cellulosum* So0157-2			
RNA operon Stucture	16S rRNA→ 23S rRNA	16S rRNA→ 23S rRNA→ 5S rRNA	16S rRNA →23S rRNA→5S rRNA	16S rRNA→ 23S rRNA→ 5S rRNA	16S rRNA →23S rRNA	16S rRNA→ 23S rRNA→ 5S rRNA(×3)	16SRNA→ 23SRNA→ 5SRNA	16S rRNA→5S rRNA
tRNA	—	tRNA-Ile-GAT,tRNA-Ala-TGC	—	tRNA-Ile-GAT	—	tRNA-Ile-GAT，tRNA-Ala-TGC	—	tRNA-Ile-GAT
interuption or duplication	Absence of 5S rRNA	—	—	—	Absence of 5S rRNA	—	—	Absence of 23S rRNA
repeat						5S rRNA repeat		

Supplementary Table S12. BLAST analysis comparing the *E. coli* K12 strain’s LPS gene cluster with the So0157-2 database.

Gene ID	Gene symbol	Source		E-value*	Hits
lipid A					
lpxA	UDP-N-acetylglucosamine acetyltransferase	*E. coli*	+	4.00E-05	1
lpxB	tetraacyldisaccharide-1-P synthase	*E. coli*	-		
lpxC	UDP-3-O-acyl N-acetylglucosamine deacetylase	*E. coli*	-		
lpxD	UDP-3-O-(3-hydroxymyristoyl)-glucosamine N-acyltransferase	*E. coli*	-		
lpxH	UDP-2,3-diacylglucosamine pyrophosphatase	*E. coli*	-		
lpxK	lipid A 4kinase	*E. coli*	-		
lpxL	lauryl-acyl carrier protein (ACP)-dependent acyltransferase carrier	*E. coli*	-		
lpxM	myristoyl-acyl carrier protein (ACP)-dependent acyltransferase carrier	*E. coli*	-		
lpxP	palmitoleoyl-acyl carrier protein (ACP)-dependent acyltransferase carrier	*E. coli*	-		
core oligosaccharide					
rfaB	UDP-D-galactose:(glucosyl)lipopolysaccharide-1,6-D-galactosyltransferase	*E. coli*	+	4.00E-10	7
rfaC	ADP-heptose:LPS heptosyl transferase I	*E. coli*	-		
rfaD	ADP-L-glycero-D-mannoheptose-6-epimerase, NAD(P)-binding	*E. coli*	+	7.00E-13	8
rfaE	fused heptose 7-phosphate kinase and heptose 1-phosphate adenyltransferase	*E. coli*	+	5.00E-09	2
rfaF	ADP-heptose:LPS heptosyltransferase II	*E. coli*	-		
rfaG	glucosyltransferase I	*E. coli*	+	8.00E-12	11
rfaH	DNA-binding transcriptional antiterminator	*E. coli*	-		
rfaI	UDP-D-galactose:(glucosyl)lipopolysaccharide-alpha-1,3-D-galactosyltransferase	*E. coli*	-		
rfaJ	UDP-D-glucose:(galactosyl)lipopolysaccharide glucosyltransferase	*E. coli*	-		
rfaK	lipopolysaccharide core biosynthesis	*E. coli*	-		
rfaL	O-antigen ligase	*E. coli*	-		
rfaP	kinase that phosphorylates core heptose of lipopolysaccharide	*E. coli*	-		
rfaQ	lipopolysaccharide core biosynthesis protein	*E. coli*	-		

rfaS	lipopolysaccharide core biosynthesis protein	*E. coli*	-		
rfaY	lipopolysaccharide core biosynthesis protein	*E. coli*	-		
rfaZ	lipopolysaccharide core biosynthesis protein	*E. coli*	-		
O polysaccharide					
rfbX	predicted polisoprenol-linked O-antigen transporter	*E. coli*	-		
rfbC	dTDP-4-deoxyrhamnose-3,5-epimerase	*E. coli*	-		
rfbA	glucose-1-phosphate thymidylyltransferase	*E. coli*	+	6.00E-14	2
rfbD	dTDP-4-dehydrorhamnose reductase subunit, NAD(P)-binding, of dTDP-L-rhamnose synthase	*E. coli*	+	7.00E-20	1
rfbB	dTDP-glucose 4,6 dehydratase, NAD(P)-binding	*E. coli*	+	3.00E-31	17

*cutoff of Blast is 0.0001

Supplementary Table S13. Chemotaxis in *Sorangium cellulosum* So157-2.

Query ID	Subject ID	E-value*	Bit score	Family
SCE1572_4806	MXAN_2682	1.00E-24	103	Che4
SCE1572_7946	MXAN_2682	1.00E-24	103	Che4
SCE1572_4577	MXAN_2682	7.00E-26	106	Che4
SCE1572_7810	MXAN_2684	1.00E-13	64.7	Che4
SCE1572_9390	MXAN_2684	2.00E-13	65.1	Che4
SCE1572_10471	MXAN_2684	4.00E-14	68.6	Che4
SCE1572_411	MXAN_2684	2.00E-14	69.7	Che4
SCE1572_2795	MXAN_2684	1.00E-18	79.7	Che4
SCE1572_3799	MXAN_2689	1.00E-27	112	Che4
SCE1572_5466	MXAN_2689	1.00E-105	370	Che4
SCE1572_1358	MXAN_2689	2.00E-128	446	Che4
SCE1572_2376	MXAN_4138	2.00E-24	102	Frz (Che1)
SCE1572_7523	MXAN_4140	7.00E-11	58.2	Frz (Che1)
SCE1572_3185	MXAN_4140	4.00E-11	58.5	Frz (Che1)
SCE1572_10862	MXAN_4140	1.00E-12	63.5	Frz (Che1)
SCE1572_6546	MXAN_4140	9.00E-14	66.2	Frz (Che1)
SCE1572_9886	MXAN_4140	1.00E-13	67	Frz (Che1)
SCE1572_6923	MXAN_4140	4.00E-16	75.5	Frz (Che1)
SCE1572_9628	MXAN_4140	1.00E-16	75.9	Frz (Che1)
SCE1572_4879	MXAN_4140	5.00E-17	78.2	Frz (Che1)
SCE1572_4349	MXAN_4140	2.00E-17	80.1	Frz (Che1)
SCE1572_1207	MXAN_4140	8.00E-42	159	Frz (Che1)
SCE1572_1851	MXAN_4144	3.00E-12	59.3	Frz (Che1)
SCE1572_7738	MXAN_4149	6.00E-13	64.7	Frz (Che1)
SCE1572_9885	MXAN_4751	2.00E-15	70.9	Che8
SCE1572_5352	MXAN_4751	2.00E-17	79	Che8

SCE1572_2409	MXAN_4751	8.00E-31	120	Che8
SCE1572_5882	MXAN_4752	2.00E-12	60.5	Che8
SCE1572_2235	MXAN_4752	1.00E-71	258	Che8
SCE1572_5865	MXAN_4753	4.00E-32	128	Che8
SCE1572_2234	MXAN_4753	5.00E-63	229	Che8
SCE1572_2798	MXAN_4756	1.00E-10	54.3	Che8
SCE1572_2232	MXAN_4756	2.00E-12	59.7	Che8
SCE1572_2231	MXAN_4757	4.00E-14	65.5	Che8
SCE1572_1252	MXAN_4758	2.00E-28	115	Che8
SCE1572_2230	MXAN_4758	7.00E-39	150	Che8
SCE1572_2797	MXAN_4758	6.00E-55	202	Che8
SCE1572_2230	MXAN_4758	3.00E-101	357	Che8
SCE1572_1887	MXAN_4759	5.00E-12	60.8	Che8
SCE1572_9096	MXAN_4759	5.00E-19	81.6	Che8
SCE1572_2229	MXAN_4759	3.00E-25	102	Che8
SCE1572_1205	MXAN_5144	2.00E-18	81.3	Che3
SCE1572_5867	MXAN_5145	8.00E-25	102	Che3
SCE1572_4573	MXAN_5145	9.00E-59	215	Che3
SCE1572_9153	MXAN_5147	7.00E-11	54.7	Che3
SCE1572_4252	MXAN_5147	2.00E-11	56.2	Che3
SCE1572_2742	MXAN_5147	1.00E-11	57.8	Che3
SCE1572_10639	MXAN_5147	3.00E-11	57.8	Che3
SCE1572_11082	MXAN_5147	1.00E-11	57.8	Che3
SCE1572_10447	MXAN_5147	3.00E-11	58.5	Che3
SCE1572_9669	MXAN_5147	2.00E-12	60.5	Che3
SCE1572_6975	MXAN_5147	2.00E-12	60.8	Che3
SCE1572_6485	MXAN_5147	6.00E-13	62	Che3
SCE1572_7521	MXAN_5147	3.00E-13	62	Che3
SCE1572_3835	MXAN_5147	2.00E-12	62.4	Che3
SCE1572_6394	MXAN_5147	2.00E-13	62.8	Che3
SCE1572_10286	MXAN_5147	2.00E-13	63.5	Che3
SCE1572_2296	MXAN_5147	5.00E-13	63.9	Che3
SCE1572_933	MXAN_5147	7.00E-13	64.3	Che3
SCE1572_1254	MXAN_5147	7.00E-14	64.3	Che3
SCE1572_9214	MXAN_5147	5.00E-13	64.7	Che3
SCE1572_11146	MXAN_5147	3.00E-13	64.7	Che3
SCE1572_1850	MXAN_5147	2.00E-13	65.9	Che3
SCE1572_8842	MXAN_5147	5.00E-14	66.2	Che3
SCE1572_3496	MXAN_5147	1.00E-13	67	Che3
SCE1572_3496	MXAN_5147	3.00E-14	68.9	Che3
SCE1572_6547	MXAN_5147	5.00E-14	68.9	Che3
SCE1572_3872	MXAN_5147	2.00E-15	71.6	Che3

SCE1572_1238	MXAN_5147	5.00E-16	72.4	Che3
SCE1572_6251	MXAN_5147	2.00E-15	72.8	Che3
SCE1572_6606	MXAN_5147	3.00E-16	74.3	Che3
SCE1572_6664	MXAN_5147	4.00E-17	77	Che3
SCE1572_4572	MXAN_5147	1.00E-17	78.6	Che3
SCE1572_8841	MXAN_5147	5.00E-18	81.3	Che3
SCE1572_1208	MXAN_5148	5.00E-33	130	Che3
SCE1572_9692	MXAN_5153	3.00E-12	59.7	Che3
SCE1572_9926	MXAN_5153	7.00E-13	61.2	Che3
SCE1572_8613	MXAN_5153	6.00E-13	62.4	Che3
SCE1572_8913	MXAN_5153	4.00E-14	65.1	Che3
SCE1572_2647	MXAN_5153	4.00E-14	67.8	Che3
SCE1572_3367	MXAN_5153	8.00E-15	69.7	Che3
SCE1572_430	MXAN_5153	3.00E-16	74.7	Che3
SCE1572_1974	MXAN_5153	2.00E-18	79.7	Che3
SCE1572_10567	MXAN_5153	2.00E-26	108	Che3
SCE1572_3150	MXAN_5153	2.00E-28	114	Che3
SCE1572_3873	MXAN_5153	1.00E-28	115	Che3
SCE1572_1470	MXAN_5153	6.00E-29	117	Che3
SCE1572_1939	MXAN_5153	2.00E-29	118	Che3
SCE1572_11212	MXAN_5153	5.00E-35	136	Che3
SCE1572_9209	MXAN_5153	2.00E-35	138	Che3
SCE1572_6814	MXAN_5153	2.00E-36	141	Che3
SCE1572_3740	MXAN_5153	7.00E-37	143	Che3
SCE1572_2589	MXAN_5153	4.00E-37	144	Che3
SCE1572_8957	MXAN_5153	5.00E-38	146	Che3
SCE1572_4341	MXAN_5153	4.00E-39	150	Che3
SCE1572_7059	MXAN_5153	3.00E-39	150	Che3
SCE1572_8480	MXAN_5153	2.00E-39	151	Che3
SCE1572_8199	MXAN_5153	1.00E-39	152	Che3
SCE1572_10539	MXAN_5153	8.00E-40	153	Che3
SCE1572_6839	MXAN_5153	2.00E-40	154	Che3
SCE1572_5366	MXAN_5153	8.00E-41	155	Che3
SCE1572_8888	MXAN_5153	6.00E-41	155	Che3
SCE1572_9233	MXAN_5153	1.00E-42	162	Che3
SCE1572_432	MXAN_5153	5.00E-43	163	Che3
SCE1572_6162	MXAN_5153	1.00E-43	165	Che3
SCE1572_3179	MXAN_5153	2.00E-44	167	Che3
SCE1572_5537	MXAN_5153	4.00E-45	170	Che3
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SCE1572_3259	MXAN_5153	1.00E-45	172	Che3
SCE1572_10720	MXAN_5153	6.00E-47	176	Che3
SCE1572_701	MXAN_5153	3.00E-47	177	Che3

SCE1572_1018	MXAN_5153	3.00E-48	180	Che3
SCE1572_3063	MXAN_5153	3.00E-48	180	Che3
SCE1572_3661	MXAN_5153	1.00E-48	181	Che3
SCE1572_6637	MXAN_5153	2.00E-48	181	Che3
SCE1572_7037	MXAN_5153	1.00E-48	181	Che3
SCE1572_5058	MXAN_5153	7.00E-49	182	Che3
SCE1572_9084	MXAN_5153	1.00E-48	182	Che3
SCE1572_3607	MXAN_5153	2.00E-49	184	Che3
SCE1572_383	MXAN_5153	1.00E-50	188	Che3
SCE1572_4536	MXAN_5153	2.00E-50	188	Che3
SCE1572_11280	MXAN_5153	1.00E-50	188	Che3
SCE1572_2644	MXAN_5153	1.00E-50	189	Che3
SCE1572_3040	MXAN_5153	1.00E-51	192	Che3
SCE1572_8245	MXAN_5153	7.00E-52	192	Che3
SCE1572_5021	MXAN_5153	2.00E-52	194	Che3
SCE1572_5602	MXAN_5153	2.00E-52	194	Che3
SCE1572_4565	MXAN_5153	2.00E-52	195	Che3
SCE1572_7337	MXAN_5153	4.00E-53	196	Che3
SCE1572_2072	MXAN_5153	2.00E-55	204	Che3
SCE1572_11300	MXAN_5153	2.00E-55	204	Che3
SCE1572_3798	MXAN_5153	1.00E-55	205	Che3
SCE1572_9960	MXAN_5153	7.00E-56	206	Che3
SCE1572_3571	MXAN_5153	1.00E-56	208	Che3
SCE1572_7435	MXAN_5153	2.00E-57	210	Che3
SCE1572_1966	MXAN_5153	4.00E-58	213	Che3
SCE1572_1420	MXAN_5153	1.00E-58	215	Che3
SCE1572_9989	MXAN_5153	1.00E-58	215	Che3
SCE1572_4441	MXAN_5153	3.00E-59	217	Che3
SCE1572_5776	MXAN_5153	2.00E-59	218	Che3
SCE1572_5412	MXAN_5153	7.00E-60	219	Che3
SCE1572_990	MXAN_5153	5.00E-60	220	Che3
SCE1572_3609	MXAN_5153	3.00E-60	220	Che3
SCE1572_3923	MXAN_5153	8.00E-60	220	Che3
SCE1572_2120	MXAN_5153	6.00E-61	223	Che3
SCE1572_535	MXAN_5153	5.00E-61	224	Che3
SCE1572_429	MXAN_5153	2.00E-63	231	Che3
SCE1572_6987	MXAN_5153	3.00E-63	231	Che3
SCE1572_7038	MXAN_5153	3.00E-66	240	Che3
SCE1572_8695	MXAN_5153	1.00E-66	241	Che3
SCE1572_9357	MXAN_5153	5.00E-70	253	Che3
SCE1572_4010	MXAN_5153	2.00E-70	254	Che3
SCE1572_4397	MXAN_5153	7.00E-73	262	Che3
SCE1572_7927	MXAN_5153	5.00E-76	272	Che3

SCE1572_9037	MXAN_5153	3.00E-76	273	Che3
SCE1572_10380	MXAN_5153	1.00E-76	275	Che3
SCE1572_11034	MXAN_5153	2.00E-79	284	Che3
SCE1572_9916	MXAN_5153	2.00E-80	287	Che3
SCE1572_7624	MXAN_5153	1.00E-80	288	Che3
SCE1572_6927	MXAN_5153	4.00E-82	293	Che3
SCE1572_2291	MXAN_5153	3.00E-84	300	Che3
SCE1572_3905	MXAN_5153	2.00E-85	304	Che3
SCE1572_2333	MXAN_5153	1.00E-90	321	Che3
SCE1572_4820	MXAN_5153	4.00E-96	339	Che3
SCE1572_3384	MXAN_5153	2.00E-96	340	Che3
SCE1572_11450	MXAN_5153	1.00E-96	341	Che3
SCE1572_6665	MXAN_6029	1.00E-13	65.1	Che5
SCE1572_4205	MXAN_6031	5.00E-16	72.8	Che5
SCE1572_10949	MXAN_6032	2.00E-11	55.8	Che5
SCE1572_7680	MXAN_6032	1.00E-11	57.8	Che5
SCE1572_6666	MXAN_6032	4.00E-11	58.2	Che5
SCE1572_3219	MXAN_6032	4.00E-12	58.9	Che5
SCE1572_5331	MXAN_6032	1.00E-13	65.5	Che5
SCE1572_10791	MXAN_6032	6.00E-15	69.7	Che5
SCE1572_1281	MXAN_6032	4.00E-18	81.6	Che5
SCE1572_3493	MXAN_6033	1.00E-11	60.1	Che5
SCE1572_1276	MXAN_6692	4.00E-21	91.3	Dif (Che2)
SCE1572_12	MXAN_6693	5.00E-11	56.2	Dif (Che2)
SCE1572_6549	MXAN_6693	2.00E-13	63.5	Dif (Che2)
SCE1572_910	MXAN_6693	2.00E-15	73.9	Dif (Che2)
SCE1572_9627	MXAN_6693	5.00E-17	79	Dif (Che2)
SCE1572_4575	MXAN_6950	1.00E-26	108	Che6
SCE1572_2800	MXAN_6950	6.00E-31	123	Che6
SCE1572_10164	MXAN_6951	1.00E-11	56.6	Che6
SCE1572_9924	MXAN_6951	8.00E-13	64.3	Che6
SCE1572_6860	MXAN_6951	1.00E-13	67.4	Che6
SCE1572_1227	MXAN_6951	1.00E-14	68.6	Che6
SCE1572_4574	MXAN_6951	3.00E-32	128	Che6
SCE1572_3503	MXAN_6959	2.00E-79	283	Che6
SCE1572_2799	MXAN_6960	2.00E-19	84.7	Che6
SCE1572_3502	MXAN_6960	5.00E-81	288	Che6
SCE1572_11255	MXAN_6962	7.00E-25	103	Che6
SCE1572_3500	MXAN_6962	3.00E-80	288	Che6

SCE1572_3499	MXAN_6963	8.00E-36	137	Che6
SCE1572_3498	MXAN_6964	3.00E-128	447	Che6
SCE1572_9923	MXAN_6965	9.00E-11	57	Che6
SCE1572_4071	MXAN_6965	4.00E-12	58.5	Che6
SCE1572_6853	MXAN_6965	2.00E-11	58.9	Che6
SCE1572_3987	MXAN_6965	5.00E-14	65.1	Che6
SCE1572_7522	MXAN_6965	1.00E-15	71.6	Che6
SCE1572_198	MXAN_6965	4.00E-16	74.7	Che6
SCE1572_3497	MXAN_6965	4.00E-46	171	Che6

* Blastp analysis against experiment identified Che systems in *Myxococcus xanthus* DK1622. E-value cutoff 1e-5.

Supplementary Table S14. NRPS/PKS statistics in *Sorangium cellulosum* So0157-2.

ID	Type	Function	Modification domain	Number of modules	TE domian	Construction
1	NRPS	Unknown	no	12	yes	linear
2	NRPS-PKShybrid	Epithilones	Glycosylation	10 （1 NRPS module）	yes	linear
3	PKS	Unknown	no	1	no	Nonmodular PKS
4	NRPS-PKShybrid	Unknown	no	6	yes	linear
5	PKS	Unknown	no	5	yes	linear
6	NRPS	Unknown	no	4	yes	linear
7	NRPS-PKShybrid	Unknown	Methylation	15	yes	linear
8	NRPS	Unknown	no	2	yes	linear or iterative
9	PKS	Unknown	no	2	no	Type II PKS or nonmodular PKS
10	PKS	Unknown	Methylation	12，absence of AT domain	yes	linear
11	NRPS	Unknown	no	1	no	Unknown
12	NRPS-PKShybrid	Unknown	Epimerization	9	yes	linear
13	NRPS	Unknown	Methylation	3	yes	linear or iterative

14	NRPS-PKShybrid	Unknown	Epimerization	2	no	Unknown
15	PKS	Unknown	no	5	yes	iterative or linear
16	NRPS-PKShybrid	Unknown	Epimerization	2	no	Unknown
17	NRPS-PKShybrid	Unknown	no	3	yes	iterative or linear
18	PKS	Unknown	no	1	no	Unknown

Supplementary Table S15. BLAST analysis of the electron transfer chain sequences against the *Myxococcus xanthus* DK1622 database.

Gene Symbol	exist or not in 0157-2	E-value*	Hits		
succinate dehydrogenase cytochrome b558 subunit	+	6.00E-20		SCE1572_10673	
NADH dehydrogenase I, N subunit	+	8.00E-95	12	SCE1572_5698	SCE1572_9714
NADH dehydrogenase I, M subunit	+	e-121	13	SCE1572_5699	SCE1572_9713
NADH dehydrogenase I, L subunit	+	e-138	15	SCE1572_5699	SCE1572_9716
NADH dehydrogenase I, K subunit	+	8.00E-24	2	SCE1572_5700	SCE1572_10173
NADH dehydrogenase I, J subunit	+	4.00E-26	2	SCE1572_5701	SCE1572_10174
NADH dehydrogenase I, F subunit	+	e-105		SCE1572_5702	
NADH dehydrogenase I, E subunit	+	1.00E-28		SCE1572_5703	
putative NADH dehydrogenase	+	e-148	3	SCE1572_4082	
NADH dehydrogenase I, I subunit	+	4.00E-43	3	SCE1572_800	
putative NADH dehydrogenase I, H subunit	+	1.00E-73	2	SCE1572_799	SCE1572_9661
putative NADH dehydrogenase I, G subunit	+			SCE1572_798	
NADH dehydrogenase I, D subunit	+	e-127	2	SCE1572_797	SCE1572_11340
NADH dehydrogenase I, C subunit	+	6.00E-30	2	SCE1572_796	SCE1572_11339
sulfatase domain protein	+	5.00E-17	7	SCE1572_4838	
NADH dehydrogenase I, B subunit	+	4.00E-60	2	SCE1572_795	SCE1572_11337
putative NADH dehydrogenase I, A subunit	+	5.00E-29	2	SCE1572_794	SCE1572_11335
succinate dehydrogenase, flavoprotein subunit	+	0	3	SCE1572_10674	
succinate dehydrogenase, iron-sulfur protein	+	2.00E-82	2	SCE1572_10675	SCE1572_8615
putative cytochrome c oxidase, subunit IV	+	2.00E-11	2	SCE1572_6126	SCE1572_9693
cytochrome c oxidase, subunit III	+	1.00E-51	2	SCE1572_6125	SCE1572_9692
cytochrome c oxidase, subunit I	+	0	2	SCE1572_6124	SCE1572_9691
cytochrome c oxidase, subunit II	+	4.00E-93	2	SCE1572_6123	SCE1572_9690
cytochrome c oxidase accessory protein FixG	-				
cytochrome c oxidase, cbb3-type, subunit III	-				
cytochrome c oxidase, cbb3-type, CcoQ subunit	-				
cytochrome c oxidase, cbb3-type, subunit I/II	+	8.00E-09	3	SCE1572_1868	

putative cytochrome oxidase maturation protein, cbb3-type	-				
cytochrome c oxidase, subunit II	+	2.00E-83	2	SCE1572_6123	SCE1572_9690
cytochrome c oxidase, subunit I	+	0	2	SCE1572_6124	SCE1572_9691
cytochrome c oxidase, subunit III	+	2.00E-52	3	SCE1572_6125	SCE1572_9692
putative cytochrome c oxidase, subunit IV	+	7.00E-12	3	SCE1572_6126	SCE1572_9693
cytochrome d ubiquinol oxidase, subunit II	+	e-111		SCE1572_3243	
cytochrome d ubiquinol oxidase, subunit I	+	e-161		SCE1572_3240	

*Cutoff of Blast is 0.0001.

Additiional Dataset 1 Supplementary table S4 (separate file)
Transcripts detected under different pH conditions.

Additiional Dataset 2 Supplementary table S7 (separate file)
Homologous genes in So0157-2 and So ce56.

Additiional Dataset 3 Supplementary table S8 (separate file)
A comparison of KEGG categories for So0157-2 and So ce56.

Additiional Dataset 4 Supplementary table S9 (separate file)
A comparison of sequence similarity for So0157-2 and So ce56.

Additiional Dataset 5 Supplementary table S11 (separate file)
All annotated polysaccharide-degrading enzymes and related CBM motifs in So0157-2.

TableS4 Transcripts detected under different pH conditions (FPKM)

Locus tag	pH 7.0	pH 10.0
SCE1572_5566	71.77	105.81
SCE1572_4403	38.14	132.09
SCE1572_3237	0	0
SCE1572_7422	9.94	0
SCE1572_6423	81.04	28.07
SCE1572_5465	26.48	9.02
SCE1572_5888	23.63	336.49
SCE1572_1430	30.11	7.76
SCE1572_9058	43.32	17.38
SCE1572_8947	36.41	54.77
SCE1572_1415	12.9	3.11
SCE1572_9953	71.59	42.4
SCE1572_8357	29.97	4.24
SCE1572_5736	79.25	843.19
SCE1572_963	269.73	219.45
SCE1572_9431	35.04	34.06
SCE1572_6979	24.38	11
SCE1572_5559	0	0
SCE1572_1203	104.74	41.78
SCE1572_926	57.15	29.56
SCE1572_6927	39.78	63.33
SCE1572_4079	45.01	0
SCE1572_1922	37.01	17.24
SCE1572_10118	78.33	331.47
SCE1572_8912	22.01	0
SCE1572_7208	19.85	5.79
SCE1572_6891	17.94	11.14
SCE1572_10120	119.57	514.25
SCE1572_8105	0	0
SCE1572_5207	54.29	184.85
SCE1572_4631	36.49	16.55
SCE1572_211	42.7	19.92
SCE1572_9167	79.6	4.56
SCE1572_3914	75.5	22.34
SCE1572_7224	84.4	141.1
SCE1572_8249	32.33	48.34
SCE1572_8904	10.14	0.77
SCE1572_5794	118.68	247.38
SCE1572_3433	17.2	117.65
SCE1572_4684	100.06	99.12
SCE1572_9858	4.65	0
SCE1572_9695	0	0
SCE1572_1899	29	9.52
SCE1572_1005	80.17	22.87
SCE1572_7497	0	0
SCE1572_5550	27.01	7.36

SCE1572_10517	42.01	20.52
SCE1572_5396	41.45	20.5
SCE1572_11501	12.43	0
SCE1572_3334	0	0
SCE1572_10265	39.08	11.29
SCE1572_11111	89.02	52.73
SCE1572_6453	0	0
SCE1572_816	84.42	27.99
SCE1572_2624	73.08	29.22
SCE1572_6657	45.53	106.94
SCE1572_1590	32	30.03
SCE1572_4855	38.4	9.48
SCE1572_8348	109.01	92.49
SCE1572_4967	22.74	188.85
SCE1572_7617	140.23	738.5
SCE1572_8843	53.38	31.44
SCE1572_2650	18.43	12.67
SCE1572_1513	44.99	4.45
SCE1572_10034	54.06	37.85
SCE1572_9206	78.58	54.16
SCE1572_1573	33.65	20.93
SCE1572_9449	65.11	39.45
SCE1572_3515	12.87	47.05
SCE1572_7608	3.45	0
SCE1572_6365	39.46	439.67
SCE1572_7454	41.35	77.75
SCE1572_3975	14.44	17.38
SCE1572_3071	74.22	43.87
SCE1572_3042	16.92	3.92
SCE1572_5691	18.81	7.7
SCE1572_1404	86.89	15.87
SCE1572_49	43.2	7.85
SCE1572_8002	67.23	15.37
SCE1572_2278	42.7	283
SCE1572_4137	0	0
SCE1572_1345	63.88	465.15
SCE1572_8495	19.53	10.07
SCE1572_5018	89.68	125.86
SCE1572_830	17.14	19.04
SCE1572_187	45.85	2032.88
SCE1572_6610	12.57	14.24
SCE1572_4114	32.99	47.3
SCE1572_306	19.03	9.6
SCE1572_7613	35.93	397.78
SCE1572_1606	61.55	17.96
SCE1572_10395	22.97	3.69
SCE1572_9894	8.42	0
SCE1572_9491	0	0

SCE1572_11230	157.52	170.44
SCE1572_8955	2.71	0
SCE1572_6436	47.38	21.29
SCE1572_5448	50.73	20.81
SCE1572_3105	47	68.9
SCE1572_1366	64.08	175.7
SCE1572_8601	47.77	149.97
SCE1572_4069	0	0
SCE1572_5880	0	0
SCE1572_8037	0	0
SCE1572_6726	23.23	23.29
SCE1572_3543	0	0
SCE1572_7367	124.16	3591.04
SCE1572_248	95.24	16.45
SCE1572_10623	20.92	24.32
SCE1572_9768	22.51	135.47
SCE1572_10652	15.57	87.97
SCE1572_7802	33.59	221.2
SCE1572_5985	14.85	4.7
SCE1572_9841	0	0
SCE1572_9963	92.7	27.57
SCE1572_7577	17.3	4.9
SCE1572_10612	66.3	105.45
SCE1572_7663	15.74	3.99
SCE1572_11224	66.43	42.03
SCE1572_9408	41.42	32.07
SCE1572_4376	32.88	8.79
SCE1572_9362	53.14	326.55
SCE1572_5731	11.78	205.49
SCE1572_10286	172.62	1300.13
SCE1572_7845	129.01	389.1
SCE1572_4842	19.59	147.61
SCE1572_8798	77.18	17.13
SCE1572_7521	54.58	29.19
SCE1572_2463	82.27	22.93
SCE1572_7211	41.03	33.49
SCE1572_4203	61.18	299.62
SCE1572_782	17.84	17.89
SCE1572_5176	23.13	17.52
SCE1572_1742	31.71	31.73
SCE1572_11206	25.38	28.88
SCE1572_9567	2.11	0
SCE1572_2193	26.87	4.62
SCE1572_3990	35.57	62.58
SCE1572_2460	20.67	0
SCE1572_5137	8.27	11.06
SCE1572_4098	8.85	5.33
SCE1572_282	11.52	4.62

SCE1572_88	56.13	117.43
SCE1572_8438	18.01	12.58
SCE1572_6296	39.48	194.17
SCE1572_1380	112.48	28.3
SCE1572_2438	20.55	74.74
SCE1572_2504	25.79	19.86
SCE1572_6900	13.38	16.1
SCE1572_2791	117.92	226.39
SCE1572_80	79.94	213.65
SCE1572_1472	63.67	47.4
SCE1572_9104	52.91	23.91
SCE1572_1624	45.84	26.87
SCE1572_3362	41.83	52.43
SCE1572_2168	2.37	0
SCE1572_7856	34.27	13.68
SCE1572_4773	21.73	18.91
SCE1572_754	42.67	56.79
SCE1572_6951	26.93	13.12
SCE1572_10444	48.49	101.42
SCE1572_9667	49.17	280.38
SCE1572_10984	82.35	570.29
SCE1572_8110	5.14	0
SCE1572_5079	33.47	80.57
SCE1572_8041	34.11	9.12
SCE1572_2242	36.16	30.95
SCE1572_1372	62.57	628.48
SCE1572_8433	6.83	6.58
SCE1572_5813	35.56	35.4
SCE1572_700	2.92	0
SCE1572_2010	59.77	15.79
SCE1572_11149	7.64	15.33
SCE1572_10976	250.29	0
SCE1572_7217	40.64	50.96
SCE1572_5719	26.64	11.51
SCE1572_11292	86.24	628.48
SCE1572_11053	73.26	228.87
SCE1572_6650	27.16	27.23
SCE1572_8277	40.65	29.5
SCE1572_9473	56.5	125.8
SCE1572_3550	24.25	15.36
SCE1572_5232	30.32	70.9
SCE1572_10529	19.96	29.64
SCE1572_9606	2.14	0
SCE1572_7979	101.62	30.08
SCE1572_8021	50.54	20.7
SCE1572_7030	32.49	14.48
SCE1572_4972	36.82	195.49
SCE1572_7997	43.36	4.15

SCE1572_3219	116.05	1470.95
SCE1572_180	0	0
SCE1572_1340	28.54	30.05
SCE1572_9934	0	0
SCE1572_7895	2.92	0
SCE1572_7063	28.91	12.24
SCE1572_1569	31.07	58.03
SCE1572_8410	97.8	696.42
SCE1572_1140	11.72	16.38
SCE1572_11212	20.49	13.66
SCE1572_5996	89.56	64.5
SCE1572_4989	26.47	52.13
SCE1572_8108	53.61	13.88
SCE1572_2995	29.03	8.59
SCE1572_9626	36.16	10.38
SCE1572_525	70.68	101.52
SCE1572_8183	42.61	5.54
SCE1572_4091	39.43	18.08
SCE1572_5859	25.4	15.28
SCE1572_8465	6.79	0
SCE1572_1858	37.1	7.76
SCE1572_745	99.37	421.31
SCE1572_739	15.46	6.8
SCE1572_3507	27.49	16.04
SCE1572_6096	41.19	22.1
SCE1572_4152	23.33	1306.86
SCE1572_1557	7.46	0
SCE1572_1102	30.1	17.13
SCE1572_8406	37.9	28.88
SCE1572_10274	48.95	71.94
SCE1572_5523	29.46	14.6
SCE1572_1752	13.64	5.05
SCE1572_7397	15.75	9.2
SCE1572_6604	62.25	148.34
SCE1572_520	43.45	20.03
SCE1572_3861	108.86	369
SCE1572_5452	36.88	10.65
SCE1572_1479	45.06	30.41
SCE1572_4183	19.53	13.82
SCE1572_4277	56.44	26.77
SCE1572_4055	20.71	64.08
SCE1572_7277	0	0
SCE1572_273	124.1	360.6
SCE1572_4726	21.74	11.66
SCE1572_4367	61.14	30.31
SCE1572_10239	71.88	17.9
SCE1572_5862	40.9	13.75
SCE1572_5269	57.96	271.71

SCE1572_5003	35.13	211.39
SCE1572_8270	29.15	19.03
SCE1572_5742	84.48	67.08
SCE1572_5688	43.32	21.24
SCE1572_6380	63.75	45.62
SCE1572_4251	11.58	12.67
SCE1572_7555	9.69	2.74
SCE1572_4451	0	0
SCE1572_3700	39.48	35.73
SCE1572_11134	50.1	25.39
SCE1572_5330	32.53	11.36
SCE1572_11	26.06	50.18
SCE1572_6894	25.03	18.63
SCE1572_2819	41.66	19.24
SCE1572_10713	22.83	19.78
SCE1572_10510	20.24	13.81
SCE1572_1136	0	0
SCE1572_1154	12.82	0
SCE1572_9848	23.75	4.4
SCE1572_588	7.28	7.67
SCE1572_2092	54.64	9.26
SCE1572_9341	71.44	694.4
SCE1572_6101	63.96	22.81
SCE1572_4552	40.93	14.07
SCE1572_2039	14.88	69.4
SCE1572_1691	133.09	318.29
SCE1572_9088	11.09	0
SCE1572_10912	32.65	79.69
SCE1572_3654	46	250.12
SCE1572_839	10.77	34.55
SCE1572_3022	35.28	9.18
SCE1572_5237	106.32	174.67
SCE1572_1358	219.3	1779.1
SCE1572_6327	13.04	3.92
SCE1572_10525	28.18	29.61
SCE1572_3380	17.28	20.8
SCE1572_10676	83.55	69.26
SCE1572_4713	24.9	12.93
SCE1572_3785	183.78	453.39
SCE1572_5601	52.44	20.85
SCE1572_973	46.65	104.8
SCE1572_8005	24.05	33.92
SCE1572_10203	33.13	104.59
SCE1572_6265	67.61	118.35
SCE1572_8051	48.73	16.29
SCE1572_6388	18.51	104.71
SCE1572_1686	18.54	9.19
SCE1572_5026	28.43	22.81

SCE1572_5838	17.47	6.78
SCE1572_10160	63.73	102.42
SCE1572_405	36.17	39.64
SCE1572_6510	0	0
SCE1572_4060	16.62	79.98
SCE1572_1251	44.4	20.39
SCE1572_8928	0	0
SCE1572_10836	37.16	19.08
SCE1572_8643	41.94	48.14
SCE1572_7375	12	7.88
SCE1572_335	47.29	23.46
SCE1572_5510	32.6	34.87
SCE1572_4130	107.97	175.55
SCE1572_4475	1210.73	2314.91
SCE1572_9498	291.66	1885.9
SCE1572_2046	13.94	0
SCE1572_11302	26.91	36.91
SCE1572_5889	34.46	71.88
SCE1572_8859	24.96	17.93
SCE1572_5112	19.4	36.32
SCE1572_4954	21.66	0
SCE1572_6232	72.26	19.51
SCE1572_295	8.15	262.9
SCE1572_1892	20.75	21.17
SCE1572_5495	25.1	8.99
SCE1572_5462	30.64	13.41
SCE1572_9142	15.81	6.06
SCE1572_8918	28.79	424.97
SCE1572_3926	58.34	284.55
SCE1572_364	10.63	0.85
SCE1572_3150	18.77	66.43
SCE1572_995	51.58	9.41
SCE1572_8751	38.33	11.99
SCE1572_1718	30.32	46.25
SCE1572_4925	37.45	76.99
SCE1572_4641	37.84	19.11
SCE1572_11128	0	0
SCE1572_1355	14.9	20.62
SCE1572_6588	41.73	41.22
SCE1572_6193	0	0
SCE1572_4588	45.69	391.58
SCE1572_2258	20.9	9.29
SCE1572_2030	58.45	13.19
SCE1572_6967	55.26	34.91
SCE1572_9748	19.58	14.14
SCE1572_6884	46.39	18.98
SCE1572_3659	21.16	25.46
SCE1572_1935	0	0

SCE1572_5064	56.46	89.73
SCE1572_1118	30.44	15.2
SCE1572_11174	55.81	34.93
SCE1572_8966	98.21	138.88
SCE1572_2390	44.31	113.11
SCE1572_4929	34.02	71.84
SCE1572_10200	22.62	50.4
SCE1572_6628	32.34	83.88
SCE1572_4486	43.32	345.37
SCE1572_8117	35.58	11.17
SCE1572_8212	5.53	10.65
SCE1572_8911	14.46	12.35
SCE1572_3389	22.59	12.88
SCE1572_886	1003.33	1367.59
SCE1572_9295	41.49	84.75
SCE1572_8415	33.96	17.92
SCE1572_3294	10.87	4.13
SCE1572_146	44.38	19.28
SCE1572_4930	41.35	48.49
SCE1572_7638	18.36	22.61
SCE1572_7202	26.63	2.62
SCE1572_3557	43.32	15.99
SCE1572_8921	1.26	0
SCE1572_8562	134.36	290.75
SCE1572_6723	26.73	91.54
SCE1572_5457	39.21	12.53
SCE1572_4784	11.03	0
SCE1572_4677	6.93	12.51
SCE1572_1188	52.45	13.84
SCE1572_5655	39	26.44
SCE1572_7814	673.08	5319.02
SCE1572_11271	28.66	90.09
SCE1572_1595	40.99	45.42
SCE1572_474	216.19	1006.92
SCE1572_5185	59.12	2406.04
SCE1572_3746	21.25	10.23
SCE1572_4708	0	0
SCE1572_7138	47.12	85.07
SCE1572_5293	24.44	41.44
SCE1572_4193	532.45	2482.71
SCE1572_3754	22.8	2.74
SCE1572_3251	10.83	0
SCE1572_11044	28.64	37.84
SCE1572_6377	23.94	15.37
SCE1572_7353	61.91	16.61
SCE1572_11193	30.95	16.73
SCE1572_11325	90.2	92.08
SCE1572_6854	64.3	3.82

SCE1572_2692	25.57	68.15
SCE1572_6470	31.73	12.73
SCE1572_2699	2.17	0
SCE1572_9192	41.56	24.14
SCE1572_9930	18.84	35.02
SCE1572_4230	10.93	13.15
SCE1572_7287	26.68	40.87
SCE1572_8364	57.94	31.77
SCE1572_2466	17.96	6.05
SCE1572_5680	127.03	254.29
SCE1572_8608	38.99	146.79
SCE1572_6164	38.73	25.78
SCE1572_2371	57.49	91.23
SCE1572_6829	4.53	0
SCE1572_6398	23.82	89.3
SCE1572_7344	0	0
SCE1572_2395	21.74	79.87
SCE1572_2310	54.12	197.07
SCE1572_1423	121.95	79.94
SCE1572_6673	23.42	19.28
SCE1572_6462	57.12	58.11
SCE1572_11167	53.91	198.68
SCE1572_11454	55.05	109.88
SCE1572_8786	15.88	157.62
SCE1572_6986	0	0
SCE1572_3877	0	0
SCE1572_6944	3.26	0
SCE1572_7420	74.59	52.69
SCE1572_9276	82.81	72.21
SCE1572_2560	10.72	14.74
SCE1572_7449	195.08	765.83
SCE1572_10805	65.96	20.95
SCE1572_9214	35.88	20.3
SCE1572_76	15.27	0
SCE1572_10657	55.29	49.9
SCE1572_9705	48.48	19.86
SCE1572_1218	84.78	26.99
SCE1572_6972	44.82	18.25
SCE1572_2301	8.99	58.76
SCE1572_10659	22.25	26.49
SCE1572_5475	26.4	90.78
SCE1572_3148	26.48	8.73
SCE1572_7037	23.19	51.52
SCE1572_2635	37.56	83.79
SCE1572_9712	0	0
SCE1572_327	3.23	0
SCE1572_10834	44.58	10.65
SCE1572_1000	76.56	146.11

SCE1572_8502	40.87	14.88
SCE1572_2544	35.87	15.24
SCE1572_7769	9.03	8.15
SCE1572_4048	29	72
SCE1572_10216	78.25	35.32
SCE1572_9534	22.24	16.53
SCE1572_2376	40.25	67.54
SCE1572_11510	49.59	25.58
SCE1572_847	287.59	1460.46
SCE1572_6631	2.08	0
SCE1572_8509	95.8	47.64
SCE1572_7626	50.54	20.56
SCE1572_4490	28.64	14.26
SCE1572_581	35.67	37.33
SCE1572_485	25.87	10.38
SCE1572_1261	41.57	57.68
SCE1572_4297	0	0
SCE1572_6486	6.51	0
SCE1572_2598	0	0
SCE1572_1028	2.41	0
SCE1572_122	23.11	7.79
SCE1572_5213	28.05	14.72
SCE1572_387	40.72	104.05
SCE1572_3452	53.09	16.53
SCE1572_4140	19.39	45.62
SCE1572_5841	39.82	16.96
SCE1572_132	174	312.9
SCE1572_10225	8.66	0
SCE1572_6014	15.87	665.29
SCE1572_6912	42.45	8.59
SCE1572_5620	69.23	19.97
SCE1572_11342	21.6	26.96
SCE1572_10406	50.35	62.3
SCE1572_6694	56.98	24.41
SCE1572_7840	25.64	30.86
SCE1572_10968	31.31	26.59
SCE1572_10605	0	0
SCE1572_9668	67.94	405.8
SCE1572_9334	26.98	87.12
SCE1572_9444	29.32	22.18
SCE1572_422	21.09	58.12
SCE1572_576	45.21	189.29
SCE1572_8155	30.32	5.92
SCE1572_3533	65.51	20.27
SCE1572_2657	204.37	66.99
SCE1572_7433	40.92	82.35
SCE1572_5916	194.93	144.55
SCE1572_6281	58.22	126.79

SCE1572_11368	7.22	0
SCE1572_9369	0	0
SCE1572_7400	58.94	57.39
SCE1572_7108	0	0
SCE1572_5275	3.61	4.34
SCE1572_10825	159.45	219.3
SCE1572_6075	63.01	59.55
SCE1572_2478	58.89	64.52
SCE1572_6270	19.56	19.13
SCE1572_3199	75.81	478.68
SCE1572_9190	45.78	24.33
SCE1572_6401	0	0
SCE1572_4153	0	0
SCE1572_4285	32.58	31.06
SCE1572_3442	36.62	36.49
SCE1572_4159	13.12	21.47
SCE1572_9908	33.8	33.26
SCE1572_7128	59.75	36.44
SCE1572_10661	38.52	58.15
SCE1572_4343	103.37	35.73
SCE1572_3613	54.65	135.79
SCE1572_2215	20.02	34.8
SCE1572_2433	15.62	18.11
SCE1572_5403	45.27	17.98
SCE1572_1865	23.26	9.33
SCE1572_9881	52.93	53.98
SCE1572_941	26.27	3.33
SCE1572_6312	20.3	280.64
SCE1572_7884	48.56	28.51
SCE1572_11309	14.38	2.16
SCE1572_3284	12.58	1.68
SCE1572_4383	55.59	22.71
SCE1572_9118	89.79	56.94
SCE1572_5972	34.53	0
SCE1572_5898	10.11	6.95
SCE1572_5586	20.07	0
SCE1572_5391	130.47	112.95
SCE1572_4579	3.3	0
SCE1572_7151	63.58	65.59
SCE1572_1458	0	0
SCE1572_3670	23.41	8.39
SCE1572_11379	19.24	44.46
SCE1572_6415	28.25	10
SCE1572_4236	42.96	166.24
SCE1572_10117	13.93	21.52
SCE1572_10591	46.88	31.29
SCE1572_9516	24.12	111.96
SCE1572_98	41.51	26.07

SCE1572_1098	27.92	17.3
SCE1572_3177	33.17	142.26
SCE1572_1123	28.22	8.69
SCE1572_10692	14.97	64.21
SCE1572_10577	33.93	25.52
SCE1572_4083	18.77	27.8
SCE1572_2595	44.17	32.64
SCE1572_7586	30.1	598.37
SCE1572_2893	18.73	7.34
SCE1572_6222	27.99	11.23
SCE1572_4600	23.65	39.41
SCE1572_643	129.82	307.79
SCE1572_2336	18.29	23.21
SCE1572_8892	99.58	119.06
SCE1572_7056	14.02	14.77
SCE1572_3741	94.98	73.4
SCE1572_9871	11.72	5.81
SCE1572_5596	77.64	76.69
SCE1572_5514	128.49	24.74
SCE1572_5978	30.99	19.49
SCE1572_2864	0	0
SCE1572_2177	31.95	4.71
SCE1572_4654	27.71	42.09
SCE1572_9307	46.48	141.17
SCE1572_6432	20.43	6.47
SCE1572_7483	73.13	49.76
SCE1572_4469	63.22	25.98
SCE1572_8401	67.06	46.01
SCE1572_4848	12.69	9.08
SCE1572_6871	23.19	20.42
SCE1572_1739	33.09	5.79
SCE1572_2453	44.13	39.37
SCE1572_9263	17.66	35.43
SCE1572_4939	54.96	94.59
SCE1572_8763	0	0
SCE1572_3449	38.71	13.2
SCE1572_10729	22.01	38.26
SCE1572_2535	24.07	26.07
SCE1572_9795	47	3.65
SCE1572_5717	134.38	242.87
SCE1572_10197	0	0
SCE1572_1190	65.38	79.59
SCE1572_10580	24.92	27.49
SCE1572_10640	136.2	840.61
SCE1572_4935	69.98	314.39
SCE1572_10865	173.05	437.04
SCE1572_5438	0	0
SCE1572_5141	34.79	22.12

SCE1572_8764	0.04	0.12
SCE1572_7461	381.31	1249.12
SCE1572_9651	45.44	14.31
SCE1572_289	124.94	20.32
SCE1572_4033	0	0
SCE1572_2921	92.95	22.97
SCE1572_9552	15.67	7.14
SCE1572_9434	174.82	677.9
SCE1572_2977	45.05	15.5
SCE1572_10464	14.02	53.74
SCE1572_7671	124.92	7.71
SCE1572_10650	1383.5	2642.43
SCE1572_6239	0	0
SCE1572_9900	126.25	428.14
SCE1572_9241	0	0
SCE1572_8166	8.12	0
SCE1572_3264	24.35	217
SCE1572_10436	43.8	63.52
SCE1572_213	60.56	24.83
SCE1572_4017	17.84	7.16
SCE1572_5956	51.49	34.43
SCE1572_10495	19.87	45.62
SCE1572_8129	0	0
SCE1572_8633	43.26	54.74
SCE1572_5723	3.47	0
SCE1572_6662	51.35	47.22
SCE1572_1224	29.24	30.27
SCE1572_9736	71.71	13.15
SCE1572_7762	38.07	138.25
SCE1572_8826	63.13	15.78
SCE1572_3128	37.32	67.37
SCE1572_7086	43.2	14.27
SCE1572_3479	25.27	0
SCE1572_5942	27.3	9.57
SCE1572_224	35.88	26.46
SCE1572_4323	20.91	9.27
SCE1572_1220	40.9	22.07
SCE1572_1227	44.79	16.81
SCE1572_8933	13.09	10.5
SCE1572_2813	39.47	47.5
SCE1572_7724	56.01	87.18
SCE1572_11578	10.74	4.31
SCE1572_10845	57.74	30.76
SCE1572_1377	19.01	7.81
SCE1572_11406	32.43	10.55
SCE1572_5097	21.2	24.4
SCE1572_4441	19.46	9.09
SCE1572_2801	58.28	553.27

SCE1572_10786	22.11	13.94
SCE1572_10241	17.59	9.15
SCE1572_9923	32.19	105.48
SCE1572_5	64.46	221.03
SCE1572_25	45.68	54.97
SCE1572_2025	37.18	83.34
SCE1572_567	22.98	27.23
SCE1572_3812	9.3	33.58
SCE1572_490	94.96	255.5
SCE1572_4841	41.03	291.31
SCE1572_7331	2.53	0
SCE1572_9992	0	0
SCE1572_9282	901.24	946.41
SCE1572_469	89.44	861.11
SCE1572_2613	56.71	27.86
SCE1572_460	4.44	0
SCE1572_2075	46.96	8.07
SCE1572_5525	37.42	17.58
SCE1572_4430	6.71	4.31
SCE1572_373	27.84	25.13
SCE1572_9389	36.18	166.7
SCE1572_3631	18.33	12.03
SCE1572_6881	69.27	39.32
SCE1572_5253	0	0
SCE1572_6575	18.77	17.38
SCE1572_3030	28.03	9.95
SCE1572_2760	102.04	582.84
SCE1572_10053	19.27	60.48
SCE1572_9017	0	0
SCE1572_824	28.06	16.99
SCE1572_3986	95.51	1422.86
SCE1572_8613	32.22	13.99
SCE1572_4293	30.66	22.08
SCE1572_4008	42.33	16.67
SCE1572_11548	84.75	327.49
SCE1572_1170	55.88	24.25
SCE1572_7849	83.15	70.41
SCE1572_8997	22.7	16.39
SCE1572_516	0	0
SCE1572_8182	45.75	12.96
SCE1572_5534	46.28	15.91
SCE1572_7759	32.2	175.2
SCE1572_241	63.31	43.01
SCE1572_8379	19.44	16.37
SCE1572_9703	20.01	23.36
SCE1572_3937	89.59	73.46
SCE1572_1898	17.47	21.78
SCE1572_8028	5.62	0

SCE1572_1564	20.64	35.98
SCE1572_5419	13.78	46.9
SCE1572_8802	93.43	67.79
SCE1572_4763	28.46	138.05
SCE1572_9370	10.83	6.95
SCE1572_6322	46.01	47.2
SCE1572_8818	41.6	21.08
SCE1572_8073	39.23	18.08
SCE1572_773	13.11	16.83
SCE1572_6206	41.98	31.54
SCE1572_5345	18.01	10.84
SCE1572_2267	33.97	56.14
SCE1572_7927	46.3	46.3
SCE1572_78	78.78	27.43
SCE1572_5801	28.36	87.05
SCE1572_6229	23.63	10.43
SCE1572_6481	16.37	1.71
SCE1572_4456	28.64	61.83
SCE1572_2928	26.73	10.02
SCE1572_8205	12.13	38.93
SCE1572_7876	34.31	27.97
SCE1572_8485	17.37	10.33
SCE1572_6370	35.29	23.89
SCE1572_2723	34.43	42.16
SCE1572_2517	0	0
SCE1572_8536	25.94	12.41
SCE1572_6642	89.14	40.1
SCE1572_4965	29.14	19.46
SCE1572_11461	3.09	0
SCE1572_7444	0	0
SCE1572_8708	21.87	35.89
SCE1572_9950	46.48	21.09
SCE1572_4168	24.66	4.4
SCE1572_9545	43.37	55.43
SCE1572_6509	38.16	12.41
SCE1572_6593	31.59	79.07
SCE1572_987	17.55	15.28
SCE1572_8569	93.22	18.92
SCE1572_7693	148.98	502.43
SCE1572_10000	98.35	456.97
SCE1572_2770	56.86	623.41
SCE1572_1249	11.03	9.95
SCE1572_4439	14.74	5.52
SCE1572_3673	42.73	49.1
SCE1572_5156	95.13	17.89
SCE1572_59	25.87	16.39
SCE1572_876	348.72	235.8
SCE1572_4609	278.18	53.95

SCE1572_10011	354.36	1321.08
SCE1572_5369	15.58	4.85
SCE1572_1917	16.1	5.42
SCE1572_7121	0	0
SCE1572_42	46.95	39.83
SCE1572_6958	56.86	12.67
SCE1572_5592	46.87	37.35
SCE1572_1284	89.6	2903.67
SCE1572_10007	15.92	10.45
SCE1572_8972	29.08	3467.6
SCE1572_8899	4.74	0
SCE1572_6358	39.74	15.59
SCE1572_9234	63.5	98.07
SCE1572_4819	56	249.22
SCE1572_5354	19.16	27.67
SCE1572_10416	6.64	8.72
SCE1572_1169	42.32	19.25
SCE1572_5788	198.75	820.05
SCE1572_120	28.53	5.39
SCE1572_1282	19.69	72.67
SCE1572_8236	64.08	579.97
SCE1572_11492	58.11	159.31
SCE1572_8269	32.79	11.36
SCE1572_5201	10.83	8.41
SCE1572_799	49.6	231.27
SCE1572_2826	18.02	13.46
SCE1572_3346	196.12	142.52
SCE1572_9481	58.04	50.61
SCE1572_2713	36.97	92.84
SCE1572_7036	59.56	189.91
SCE1572_3277	0	0
SCE1572_10917	12.86	17.99
SCE1572_6636	108.15	29.77
SCE1572_3948	78.84	189.76
SCE1572_7775	38.99	13.9
SCE1572_10398	36.54	39.98
SCE1572_2997	18.78	3.23
SCE1572_7476	488.25	0
SCE1572_4514	143.38	425.74
SCE1572_7348	38.11	15.61
SCE1572_2571	47.44	49.65
SCE1572_6502	26.35	24.72
SCE1572_4056	25.9	61.32
SCE1572_1323	12.31	20.8
SCE1572_3575	45.42	15.51
SCE1572_10575	0	0
SCE1572_4412	2.94	0
SCE1572_7650	27.57	0

SCE1572_5117	14.2	34.17
SCE1572_9310	102.87	453.42
SCE1572_4918	43.72	45.09
SCE1572_1957	45.22	33.29
SCE1572_4696	59.18	36.31
SCE1572_1138	26.34	7.73
SCE1572_10372	60.93	23.87
SCE1572_6408	24.33	11.26
SCE1572_2206	58.48	504.37
SCE1572_10148	47.79	59.5
SCE1572_9399	45.85	37.62
SCE1572_4914	24.75	9.58
SCE1572_11408	21.41	12.37
SCE1572_9189	53.19	20.6
SCE1572_8985	34.29	73.35
SCE1572_6768	93.98	153.81
SCE1572_8635	24.5	16.59
SCE1572_6615	46.72	27.54
SCE1572_5614	27.57	7.04
SCE1572_2122	3.97	1.59
SCE1572_3903	69.48	104.36
SCE1572_1970	44.63	18.76
SCE1572_1791	20.31	4.07
SCE1572_11444	27.47	26.44
SCE1572_3957	6.5	0
SCE1572_889	29.09	8.67
SCE1572_10709	20.37	0
SCE1572_4321	103.9	52.89
SCE1572_8395	23.78	530.39
SCE1572_4561	0	0
SCE1572_4024	229.96	201.85
SCE1572_3510	22.55	114.6
SCE1572_2330	86.07	58.92
SCE1572_1822	99.69	22.5
SCE1572_10500	49.67	576.75
SCE1572_6994	11.89	14.31
SCE1572_3299	41.76	43.7
SCE1572_10924	75.72	1698.06
SCE1572_10744	44.5	17.6
SCE1572_3069	21.78	48.31
SCE1572_6627	48.83	80.41
SCE1572_4993	26.37	15.87
SCE1572_611	9.38	46.4
SCE1572_2103	41.41	60.36
SCE1572_11032	0	0
SCE1572_6467	34.48	8.49
SCE1572_10694	39.48	0
SCE1572_1077	55.07	36

SCE1572_6139	24.75	52.13
SCE1572_9983	36.02	15.67
SCE1572_5634	49.33	17.46
SCE1572_8870	39.85	29.77
SCE1572_10928	33.36	33.9
SCE1572_7198	366.5	871.61
SCE1572_9413	20.14	77.69
SCE1572_3589	2.76	0
SCE1572_3272	0	0
SCE1572_1995	67.77	21.43
SCE1572_6788	92.63	34.03
SCE1572_3551	10.42	8.36
SCE1572_9010	23.1	9.98
SCE1572_4827	37.7	22.2
SCE1572_9692	20.16	79.58
SCE1572_6603	23.45	38.56
SCE1572_8519	24.3	334.28
SCE1572_4359	8.74	9.01
SCE1572_10827	38.82	17.68
SCE1572_7752	20.28	14.42
SCE1572_1771	57.19	27.17
SCE1572_5192	45.69	369.92
SCE1572_2369	67.61	14.79
SCE1572_6275	51	147.35
SCE1572_2706	53.57	35.98
SCE1572_10131	19.36	19.97
SCE1572_10380	38.23	34.02
SCE1572_437	22.48	12.3
SCE1572_2935	9.41	2.52
SCE1572_7502	25.95	42.74
SCE1572_5909	87.65	647.17
SCE1572_5347	27.42	15.53
SCE1572_9752	0	0
SCE1572_2677	10.21	166.39
SCE1572_9153	245.89	208.19
SCE1572_860	134.98	854.45
SCE1572_3992	26.82	140.35
SCE1572_6526	26.58	10.18
SCE1572_8624	37.41	0
SCE1572_8497	68.21	26.2
SCE1572_2587	5.7	2.74
SCE1572_11471	25.27	18.88
SCE1572_10550	24.3	19.5
SCE1572_11459	65.38	154
SCE1572_3224	17.75	1.88
SCE1572_2417	15.25	13.63
SCE1572_10811	0	0
SCE1572_3624	35.77	8.2

SCE1572_6114	87.18	15.21
SCE1572_6566	21.35	21.15
SCE1572_4572	45.48	11.52
SCE1572_3845	77.73	24.25
SCE1572_9723	30.17	13.03
SCE1572_4549	35.03	11.47
SCE1572_1068	38.83	0
SCE1572_2855	16.39	5.44
SCE1572_10383	16.13	8.63
SCE1572_2774	33.46	23.86
SCE1572_40	51.57	33.1
SCE1572_1615	44.87	197.77
SCE1572_11434	29.43	18.13
SCE1572_7786	21.07	30.32
SCE1572_7176	51.96	102.31
SCE1572_7737	17.72	28.44
SCE1572_7491	32.34	34.06
SCE1572_6429	14.97	5.48
SCE1572_9155	67.68	116.35
SCE1572_1426	240.32	549.65
SCE1572_3309	16.62	4.8
SCE1572_4542	0	0
SCE1572_7967	22.97	0
SCE1572_5083	42.74	148.17
SCE1572_3411	20.8	34.49
SCE1572_2829	42.91	9.18
SCE1572_1785	61.06	128.64
SCE1572_1643	80.27	25.74
SCE1572_5106	73.64	1454.48
SCE1572_10944	77.29	78.71
SCE1572_3581	40.16	22.96
SCE1572_5770	270.86	4013.51
SCE1572_501	37.23	16.8
SCE1572_3819	48.22	27.26
SCE1572_9092	26.7	17.85
SCE1572_7113	35.21	23.5
SCE1572_5629	13.96	0
SCE1572_8642	6.06	4.87
SCE1572_9878	23.28	8.62
SCE1572_9437	254.1	344.65
SCE1572_6134	33.93	45.93
SCE1572_2666	35.1	51.63
SCE1572_5645	6	3.61
SCE1572_7716	19.74	0
SCE1572_539	2.6	0
SCE1572_4215	382.12	843.07
SCE1572_1827	10.23	2.9
SCE1572_982	55.28	47.43

SCE1572_6140	12.82	6.35
SCE1572_5646	2.61	0
SCE1572_11160	26.16	179.23
SCE1572_7025	2.81	0
SCE1572_4187	98.48	144.99
SCE1572_2404	40.34	299.14
SCE1572_7512	0	0
SCE1572_4799	43.01	48.71
SCE1572_10388	24.4	67.11
SCE1572_8742	27.19	28.84
SCE1572_6149	102.56	93.91
SCE1572_2468	34.64	61.72
SCE1572_862	74.89	267.1
SCE1572_5146	20.67	9.6
SCE1572_11073	3.47	181.42
SCE1572_2019	29.79	14.82
SCE1572_3084	32.11	9.66
SCE1572_8145	17.4	105.69
SCE1572_8884	42.98	3.76
SCE1572_11500	40.29	96.98
SCE1572_321	45.33	3.76
SCE1572_11313	140.73	1973.81
SCE1572_8833	21.81	11.25
SCE1572_8663	53.2	22.41
SCE1572_3045	6.11	0
SCE1572_4864	21.49	9.24
SCE1572_4484	27.14	34.08
SCE1572_2547	21.57	23.32
SCE1572_1849	45.69	27.99
SCE1572_11387	172.74	312.95
SCE1572_11553	40.98	29.59
SCE1572_4266	30.32	32.44
SCE1572_3602	12.25	30.79
SCE1572_10342	20.22	32.44
SCE1572_9526	58.75	637.47
SCE1572_8053	25.89	11.13
SCE1572_9179	46.6	18.96
SCE1572_10934	33.19	16.44
SCE1572_8734	27.57	28.75
SCE1572_8332	129.96	131.78
SCE1572_563	21.5	57.06
SCE1572_1333	12.06	0
SCE1572_11083	8.92	21.47
SCE1572_6518	43.1	9.26
SCE1572_2733	16.97	43.47
SCE1572_1312	683.04	1949.94
SCE1572_2020	26.45	38.82
SCE1572_10304	64.44	97.89

SCE1572_8446	9.72	4.68
SCE1572_4508	14.65	29.84
SCE1572_9464	24.11	13.19
SCE1572_752	20.81	0
SCE1572_8686	65.12	9.8
SCE1572_6742	24.16	5.11
SCE1572_47	20.65	7.91
SCE1572_8292	32.31	17.95
SCE1572_6316	0	0
SCE1572_2235	60.06	184.99
SCE1572_7169	45.32	55.97
SCE1572_7132	34.66	10.43
SCE1572_1526	182.79	2697.39
SCE1572_8534	59.45	255.11
SCE1572_8936	8.27	0
SCE1572_10531	2.23	0
SCE1572_2115	35.67	16.28
SCE1572_1740	19.28	3.2
SCE1572_7328	25.27	4.34
SCE1572_9071	99.07	252.2
SCE1572_4818	7.22	0
SCE1572_2697	72.94	31.35
SCE1572_2135	2.57	0
SCE1572_2683	46.09	328.92
SCE1572_1809	10.47	25.2
SCE1572_2323	23.65	82.13
SCE1572_3494	22.68	2.87
SCE1572_7260	97	1000.09
SCE1572_7377	47.5	72.45
SCE1572_8282	70.95	251.71
SCE1572_9596	15.64	792.11
SCE1572_3885	73.84	22.69
SCE1572_2068	21.66	14.89
SCE1572_2063	40.73	34.25
SCE1572_2101	63.79	240.31
SCE1572_7000	0	0
SCE1572_9688	121.9	229.91
SCE1572_4257	19.14	0
SCE1572_9028	35.7	109.26
SCE1572_11581	29.25	37.68
SCE1572_11232	22.54	12.82
SCE1572_2299	138.29	699.77
SCE1572_8339	47.9	42.79
SCE1572_8957	34.63	114.09
SCE1572_10186	41.86	95.84
SCE1572_2217	5.32	0
SCE1572_9384	14.03	9.8
SCE1572_8749	26.52	28.53

SCE1572_4612	35.5	5.34
SCE1572_3795	26.97	18.69
SCE1572_8487	7.58	3.65
SCE1572_9356	29.62	140.35
SCE1572_4354	27.3	18.18
SCE1572_10322	33.93	505.28
SCE1572_6052	317.8	431.27
SCE1572_3663	21.78	6.31
SCE1572_7624	42.76	66.35
SCE1572_4738	24.89	46.3
SCE1572_2493	83.77	50.24
SCE1572_10218	47.87	70.56
SCE1572_990	43.82	41.74
SCE1572_596	215.32	828.27
SCE1572_11452	27.47	7.35
SCE1572_3857	15.93	41.84
SCE1572_2273	22.4	47.69
SCE1572_11099	30.54	28.37
SCE1572_4881	10.11	4.87
SCE1572_2555	27.34	13.16
SCE1572_263	2.66	0
SCE1572_3116	82.65	45.62
SCE1572_2747	30.78	34.86
SCE1572_4362	2.45	0
SCE1572_1105	37.08	21.51
SCE1572_805	70.25	60.46
SCE1572_3943	568.8	1236.47
SCE1572_11155	72.22	145.97
SCE1572_11479	6.89	0
SCE1572_8504	18.7	5.75
SCE1572_6550	56.98	46.49
SCE1572_8775	35.62	20.58
SCE1572_9000	117.1	223.19
SCE1572_699	14.38	2.88
SCE1572_9009	0	0
SCE1572_7519	38.15	242.5
SCE1572_4311	32.42	14.75
SCE1572_4040	134.98	71.2
SCE1572_3193	85.88	90.31
SCE1572_2455	37.53	80.3
SCE1572_1948	18.58	944.33
SCE1572_11377	20.74	63.69
SCE1572_532	44.27	16.67
SCE1572_4876	25.35	17.09
SCE1572_5264	76.88	370.06
SCE1572_8573	15.68	0
SCE1572_3523	81.98	116.23
SCE1572_1730	23.69	37.06

SCE1572_1852	33.06	89.11
SCE1572_2762	0	0
SCE1572_5605	31.62	9.76
SCE1572_1993	16.78	44.57
SCE1572_3633	28.38	11.71
SCE1572_1121	40.09	19.59
SCE1572_3531	39.28	7.56
SCE1572_1777	61.4	20.12
SCE1572_1754	31.52	22.55
SCE1572_854	211.76	693.65
SCE1572_6001	132.15	387.11
SCE1572_103	55.63	17.66
SCE1572_6348	0	0
SCE1572_4341	20.11	24.2
SCE1572_7308	0	0
SCE1572_4593	78.75	129.32
SCE1572_2443	2.71	0
SCE1572_11592	34.61	19.83
SCE1572_10298	43.96	46.12
SCE1572_8690	53.45	10.5
SCE1572_2866	106.21	31.03
SCE1572_5506	47.13	15.13
SCE1572_446	26.73	13.44
SCE1572_3504	26.76	51.88
SCE1572_767	11.66	3.69
SCE1572_11077	10.17	109.03
SCE1572_9066	80.38	22.02
SCE1572_4106	19.58	12.12
SCE1572_8733	55.06	27.85
SCE1572_6437	97.57	30.71
SCE1572_2522	37.14	68.88
SCE1572_5702	34.6	54.95
SCE1572_4399	39.31	6.76
SCE1572_2004	17.12	0
SCE1572_5982	11.34	3.41
SCE1572_2280	59.69	37.75
SCE1572_5937	25.81	5.18
SCE1572_907	25.27	9.5
SCE1572_1019	0	0
SCE1572_4462	0	0
SCE1572_2914	42.41	12.65
SCE1572_1026	11.66	519.31
SCE1572_6747	0	0
SCE1572_3715	102.14	147.89
SCE1572_10463	85.76	320.38
SCE1572_10456	68.57	13.63
SCE1572_7170	38.06	63.07
SCE1572_10867	26.76	17.89

SCE1572_6781	43.32	466.29
SCE1572_8271	24.97	90.68
SCE1572_7746	56.61	63.16
SCE1572_7501	39.02	226.06
SCE1572_9785	25.27	10.58
SCE1572_10379	0	0
SCE1572_7156	36.96	72.38
SCE1572_10564	66.49	27.18
SCE1572_4873	178.65	472.42
SCE1572_2476	55.42	13.8
SCE1572_3851	30.94	372.37
SCE1572_1722	39.16	38.19
SCE1572_10270	48.81	339.93
SCE1572_1863	29.93	8.61
SCE1572_9554	45.78	107.33
SCE1572_4161	0	0
SCE1572_1982	0	0
SCE1572_6044	11.54	289.56
SCE1572_5967	22.9	5.07
SCE1572_10300	57.4	328.88
SCE1572_7582	181.61	683.01
SCE1572_522	27.63	34.1
SCE1572_7473	36.4	100.07
SCE1572_8194	32.98	6.78
SCE1572_6049	33.63	188.07
SCE1572_2032	50.22	29.18
SCE1572_1920	27.52	29.87
SCE1572_5324	46.04	110.82
SCE1572_2426	323.75	703.78
SCE1572_6490	61.21	24.93
SCE1572_1929	14.03	29.56
SCE1572_3483	89.11	122.71
SCE1572_8518	24.33	169.7
SCE1572_3738	6.42	5.79
SCE1572_3246	136.04	433.01
SCE1572_11563	22.61	12.2
SCE1572_4036	11.36	0.85
SCE1572_11241	61.62	60.82
SCE1572_9560	47.57	37.46
SCE1572_933	47.5	97.6
SCE1572_2196	36.73	574.26
SCE1572_3350	25.2	14.39
SCE1572_7245	67.67	101.02
SCE1572_2355	24.34	29.29
SCE1572_3647	18.21	89.86
SCE1572_9304	57.83	158.76
SCE1572_218	32.91	110.33
SCE1572_1484	71.43	36.6

SCE1572_1038	14.96	4.8
SCE1572_8793	13.1	0
SCE1572_5488	74.43	17.06
SCE1572_36	38.17	65.88
SCE1572_5827	25.12	19.76
SCE1572_5049	31.18	57.39
SCE1572_7939	8.66	29.19
SCE1572_2833	53.16	298.57
SCE1572_3374	97.78	3741.94
SCE1572_114	44.28	9.69
SCE1572_4240	37.78	24.57
SCE1572_2970	30.9	50.47
SCE1572_6536	66.42	134.6
SCE1572_4634	43.88	17.13
SCE1572_1638	15.45	9.3
SCE1572_7781	14.91	0
SCE1572_137	26.21	16.22
SCE1572_6304	40.3	101.62
SCE1572_3829	28.39	237.91
SCE1572_2629	34.09	18
SCE1572_2532	34.37	223.09
SCE1572_8479	53.97	364.92
SCE1572_3863	14.15	6.09
SCE1572_9466	38.75	60.72
SCE1572_913	13.26	21.94
SCE1572_8869	46.92	23.77
SCE1572_174	25.76	12.68
SCE1572_7822	90.97	563.02
SCE1572_10818	43.25	47.15
SCE1572_158	146.17	1011.29
SCE1572_8343	18.27	4.4
SCE1572_6081	26.44	0
SCE1572_3007	20.36	20.27
SCE1572_7142	60.45	85.18
SCE1572_8850	16.79	33.89
SCE1572_1499	30.65	7.76
SCE1572_4970	35.86	9.86
SCE1572_3033	49.44	70.98
SCE1572_11487	20.29	2.76
SCE1572_3895	23.02	42.03
SCE1572_1297	47.88	495.1
SCE1572_8394	96.99	193.84
SCE1572_832	14.54	10
SCE1572_6684	28.45	82.35
SCE1572_2646	0	0
SCE1572_7935	24.35	13.25
SCE1572_2880	23.45	45.15
SCE1572_737	63.95	44.97

SCE1572_11026	17.08	15.42
SCE1572_8584	0	0
SCE1572_9851	37.9	16.89
SCE1572_300	22.74	16.94
SCE1572_1462	19.78	0
SCE1572_9135	10.46	5.03
SCE1572_3843	7.58	0
SCE1572_9223	462.99	95.52
SCE1572_7790	0	0
SCE1572_4905	47.96	932.79
SCE1572_235	5.41	8.69
SCE1572_6411	24.61	19.11
SCE1572_346	62.19	24.58
SCE1572_3217	33.15	21.28
SCE1572_4895	25.95	16.44
SCE1572_5062	55.02	149.61
SCE1572_11600	12.29	1.97
SCE1572_1706	44.96	75.04
SCE1572_1442	40.62	17.42
SCE1572_1395	51.02	3252.69
SCE1572_1762	151.2	27
SCE1572_10141	8.34	29.52
SCE1572_7863	34.24	3.92
SCE1572_9319	20.37	5.45
SCE1572_4398	15.54	14.82
SCE1572_5775	62.53	57.51
SCE1572_11182	33.82	10.85
SCE1572_3597	0	0
SCE1572_333	43.72	50.57
SCE1572_3240	5.14	0
SCE1572_7435	33.3	6.22
SCE1572_3733	0	0
SCE1572_2577	40.55	18.67
SCE1572_6127	41.9	167.14
SCE1572_394	29.39	48.68
SCE1572_11023	55.54	177.11
SCE1572_6499	22.56	24.98
SCE1572_11516	14.8	7.7
SCE1572_8327	61.88	40.62
SCE1572_5040	40.55	160.83
SCE1572_7568	142.17	84.6
SCE1572_499	30.05	18.35
SCE1572_662	367.48	1028.16
SCE1572_1570	69.22	128.25
SCE1572_4042	38.99	31.28
SCE1572_4667	0	0
SCE1572_5851	0	0
SCE1572_1904	10.24	0

SCE1572_5389	47.81	148.82
SCE1572_1111	54.82	8.25
SCE1572_8090	24.92	5.06
SCE1572_1869	34.28	212.68
SCE1572_6325	35.38	152.05
SCE1572_10884	17.73	14.94
SCE1572_2956	9.27	5.82
SCE1572_481	59.04	15.92
SCE1572_9264	77.29	113.05
SCE1572_6309	36	47.26
SCE1572_415	38.53	98.76
SCE1572_6452	54.97	22.5
SCE1572_2108	28.34	138.61
SCE1572_9106	70.18	8.34
SCE1572_8175	11.97	0
SCE1572_2383	19.88	20.64
SCE1572_11103	11.26	21.9
SCE1572_1043	32.41	80.53
SCE1572_9634	33.91	43.19
SCE1572_10138	0	0
SCE1572_10471	13.6	20.66
SCE1572_3076	96.4	88.59
SCE1572_10026	160.71	890.41
SCE1572_7314	34.54	15.75
SCE1572_5623	34.96	118.49
SCE1572_2961	79.47	624.95
SCE1572_9505	10.67	8.56
SCE1572_1966	51.32	416.39
SCE1572_9229	3.53	0
SCE1572_4801	18.31	44.08
SCE1572_8879	27.72	9.1
SCE1572_8308	301.48	872.23
SCE1572_1144	22.32	20.54
SCE1572_7834	2.3	0
SCE1572_9325	0	0
SCE1572_3132	14.52	10.23
SCE1572_476	66.64	182.46
SCE1572_6066	6.46	1.35
SCE1572_5036	7.15	13.77
SCE1572_8367	32.25	10.88
SCE1572_8457	95	167.32
SCE1572_6832	20.03	8.51
SCE1572_4530	19.16	6.15
SCE1572_8350	28.41	0
SCE1572_11485	149.52	184.98
SCE1572_670	35.49	113.15
SCE1572_10991	38.14	45.33
SCE1572_5285	26.66	44.11

SCE1572_7685	19.24	11.11
SCE1572_5289	24.77	4.77
SCE1572_9226	35.2	20.64
SCE1572_2887	15.55	2.34
SCE1572_3146	23.33	8.02
SCE1572_3317	53.85	362.43
SCE1572_1466	89.65	22.21
SCE1572_8346	52.91	19.8
SCE1572_1278	46	26.65
SCE1572_928	45.26	42.66
SCE1572_8133	68.61	12.23
SCE1572_7010	40.07	32.9
SCE1572_2785	10.22	10.82
SCE1572_784	31.75	7.9
SCE1572_6738	15.91	35.89
SCE1572_10751	45.41	18.16
SCE1572_8429	36.79	45.04
SCE1572_6844	28.21	48.6
SCE1572_5382	22.94	8.42
SCE1572_9078	20.19	1.91
SCE1572_7185	35.41	13.11
SCE1572_5166	8.27	8.85
SCE1572_2630	40.26	11.8
SCE1572_6459	35.76	6.89
SCE1572_11262	23.41	55.45
SCE1572_724	85.98	25.59
SCE1572_11189	65.09	22.94
SCE1572_7093	17.29	15.26
SCE1572_11120	18.05	14.48
SCE1572_5728	37.46	46.68
SCE1572_7075	14.67	23.54
SCE1572_1205	14.23	2.94
SCE1572_8470	29.01	34.25
SCE1572_1662	105.95	360.53
SCE1572_11042	323.03	77.61
SCE1572_2558	17.19	8.8
SCE1572_2157	49.07	151.61
SCE1572_9046	226.22	79.1
SCE1572_6447	7.82	15.05
SCE1572_6174	43.21	57.38
SCE1572_7598	16.54	86.25
SCE1572_11258	17.26	47.47
SCE1572_3463	48.57	33.4
SCE1572_10058	256.96	1741.67
SCE1572_10900	46.8	200.48
SCE1572_11197	58.31	59.88
SCE1572_4979	37.9	235.68
SCE1572_10368	15.05	5.57

SCE1572_2806	60.35	24.46
SCE1572_7869	103.88	186.97
SCE1572_5991	49.01	60.21
SCE1572_11046	19.59	9.48
SCE1572_2227	55.33	179.26
SCE1572_6255	37.47	45.09
SCE1572_10762	49.02	48.47
SCE1572_6248	24.53	48.3
SCE1572_1766	10.74	2.07
SCE1572_5698	36.14	106.69
SCE1572_694	9.39	19.11
SCE1572_6195	50.54	12.58
SCE1572_9258	14.11	9.86
SCE1572_1671	36.53	515.66
SCE1572_1239	9.49	3.51
SCE1572_5092	0	0
SCE1572_10963	28.43	22.81
SCE1572_10065	292.4	1985.35
SCE1572_11064	17.01	21.22
SCE1572_1796	32.81	81.26
SCE1572_9126	8.51	7.68
SCE1572_3562	21.09	10.58
SCE1572_5365	14.38	24.83
SCE1572_4529	21.73	11.89
SCE1572_605	37.5	94.17
SCE1572_11141	47.63	17.24
SCE1572_7402	11.8	1131.69
SCE1572_7767	0	0
SCE1572_2584	52.35	10.33
SCE1572_2078	86.33	57.14
SCE1572_7591	65.42	38.06
SCE1572_6023	50.35	61.05
SCE1572_3685	12.36	2.63
SCE1572_1559	23.06	8.41
SCE1572_9817	30.32	28.67
SCE1572_6707	0	0
SCE1572_1271	48.2	26.77
SCE1572_10484	71.14	29.44
SCE1572_9989	21.66	13.43
SCE1572_10752	107.56	103.17
SCE1572_10872	50.39	32.91
SCE1572_2637	24.64	18.9
SCE1572_1652	16.24	0
SCE1572_11118	105.67	1200.19
SCE1572_11411	46.59	22.06
SCE1572_3424	103.35	50.64
SCE1572_3824	34.29	83.44
SCE1572_4838	154.86	122.51

SCE1572_4728	106.07	46.01
SCE1572_1550	36.1	20.85
SCE1572_1308	172.48	2455.07
SCE1572_1055	53.66	22.15
SCE1572_4302	49.36	29.7
SCE1572_425	68.54	914.81
SCE1572_9861	22.26	15.07
SCE1572_554	30.1	69.76
SCE1572_8554	40.91	135.4
SCE1572_4070	220.29	656.86
SCE1572_11060	26.46	41.64
SCE1572_1049	13.1	4.51
SCE1572_3183	21.58	31.44
SCE1572_8659	501.81	1427.4
SCE1572_6233	59.55	58.04
SCE1572_3355	80.67	26.83
SCE1572_2909	30.52	26.07
SCE1572_7327	53.69	25
SCE1572_1199	0	0
SCE1572_7951	82.61	414.05
SCE1572_11350	0	0
SCE1572_4775	0	0
SCE1572_2341	20.94	34.75
SCE1572_6960	58.62	22.24
SCE1572_10535	40.99	331.12
SCE1572_9173	15.73	6.89
SCE1572_7303	45.42	35.46
SCE1572_3290	13.15	4.22
SCE1572_2562	19.26	18.46
SCE1572_6812	44.72	10.5
SCE1572_7294	30.19	60.3
SCE1572_6156	21.85	8.22
SCE1572_10423	31.26	126.03
SCE1572_1798	43.18	191.7
SCE1572_867	34.18	64.31
SCE1572_9426	44.13	42.83
SCE1572_618	80.81	617.19
SCE1572_4790	28.82	54.11
SCE1572_10478	56.01	60.66
SCE1572_1538	19	17.28
SCE1572_7321	31.73	8.81
SCE1572_5318	50.91	20.2
SCE1572_4426	96.02	2123.5
SCE1572_9961	52.31	10.95
SCE1572_3399	22.33	17.5
SCE1572_2271	23.3	21.86
SCE1572_3322	3.37	0
SCE1572_8670	17.6	149.88

SCE1572_2240	20.27	35.85
SCE1572_9774	42.49	89.65
SCE1572_6094	111.22	25.13
SCE1572_1081	34.35	22.81
SCE1572_10555	63.65	12.68
SCE1572_6107	42.39	15.7
SCE1572_2084	38.42	157.8
SCE1572_11575	32.33	208.21
SCE1572_3778	34.18	28
SCE1572_10625	129.22	62.2
SCE1572_6937	25.7	27.83
SCE1572_10455	20.87	8.86
SCE1572_9644	13.89	58.5
SCE1572_3000	50.63	17.8
SCE1572_2608	29.09	17.13
SCE1572_7957	282.1	2485.79
SCE1572_8526	70.36	128.8
SCE1572_5398	59	27.48
SCE1572_9133	5.41	2.61
SCE1572_4520	63.47	161.24
SCE1572_10802	14.72	5.97
SCE1572_8383	32.38	18.73
SCE1572_2984	122.35	85.95
SCE1572_9913	0	0
SCE1572_7941	59.16	167.85
SCE1572_11333	65.87	85.37
SCE1572_5311	69.72	71.92
SCE1572_5915	126.07	159.28
SCE1572_2604	17.79	14.27
SCE1572_11523	10.94	15.05
SCE1572_7730	14.5	2.83
SCE1572_5304	63.96	82.68
SCE1572_5342	12.07	10.89
SCE1572_1301	35.35	18.98
SCE1572_5180	26.42	968.48
SCE1572_10879	59.15	188.32
SCE1572_11359	58.39	38.53
SCE1572_1659	27.53	25.48
SCE1572_2143	17.69	21.29
SCE1572_9587	36.87	78.2
SCE1572_5128	141.46	623.57
SCE1572_10672	6.82	8.69
SCE1572_11172	18.17	10.56
SCE1572_7183	48.09	21.79
SCE1572_884	178.96	197.42
SCE1572_10854	36.54	36.39
SCE1572_10047	66.71	189.76
SCE1572_11214	63.08	24.05

SCE1572_492	0	0
SCE1572_5377	24.96	10.23
SCE1572_10758	47.03	33.17
SCE1572_7893	625.74	24527.11
SCE1572_2937	92.53	952.56
SCE1572_8412	57.64	63.15
SCE1572_7674	57.3	15.04
SCE1572_7385	37.19	17.21
SCE1572_2347	2225.14	24547.25
SCE1572_5239	8.87	13.87
SCE1572_9085	21.66	17.38
SCE1572_5234	205.94	2928.5
SCE1572_4208	43.03	116.82
SCE1572_2254	26.91	4.11
SCE1572_10983	22.8	39.19
SCE1572_6349	39.24	48
SCE1572_154	53.3	76.98
SCE1572_5751	142.82	147.32
SCE1572_251	38.83	3.8
SCE1572_9002	272.06	296.71
SCE1572_10974	3.41	4.1
SCE1572_9471	17.63	12.73
SCE1572_10276	403.8	225.04
SCE1572_8275	53.83	99.23
SCE1572_107	52.99	88.57
SCE1572_2037	35.11	222.79
SCE1572_2027	0	0
SCE1572_9580	57.4	28.53
SCE1572_722	46.65	13.72
SCE1572_790	0	0
SCE1572_10678	44.29	229.49
SCE1572_9628	44.98	20.03
SCE1572_6344	43.19	38.89
SCE1572_4279	47.75	60.48
SCE1572_6372	0	0
SCE1572_7358	32.99	68.25
SCE1572_5332	33.56	37.47
SCE1572_8119	72.83	178.28
SCE1572_3827	69.19	235.12
SCE1572_3017	25.07	30.17
SCE1572_5871	23.54	23.53
SCE1572_8940	50.74	172.03
SCE1572_3039	84.42	12.44
SCE1572_10237	34.72	16.92
SCE1572_6956	45.86	2.25
SCE1572_5857	0	0
SCE1572_2754	52.57	52.46
SCE1572_10904	28.82	439.85

SCE1572_11090	48.17	89.33
SCE1572_10466	36.47	25.63
SCE1572_5725	19.75	0
SCE1572_1181	12.25	0
SCE1572_1583	48.73	4.65
SCE1572_4974	95.83	1450.21
SCE1572_10847	52.21	22.38
SCE1572_6622	43.32	32.41
SCE1572_9086	59.17	14.83
SCE1572_1509	58.9	15.94
SCE1572_7548	53.95	17.91
SCE1572_7427	31.66	19.53
SCE1572_5843	21.84	6.19
SCE1572_1156	0	0
SCE1572_3387	19.52	3.13
SCE1572_1721	9.12	0
SCE1572_8857	63.08	149.17
SCE1572_4982	36.81	6.33
SCE1572_6479	30.58	180.52
SCE1572_1439	23.14	8.64
SCE1572_5552	3.23	11.65
SCE1572_9144	18.58	7.21
SCE1572_819	46.21	27.8
SCE1572_2742	25.16	47.81
SCE1572_5765	45.06	140.64
SCE1572_8185	100.3	5.61
SCE1572_1519	60.42	35.5
SCE1572_5777	54.25	512.23
SCE1572_10680	0	0
SCE1572_3867	49.01	217.48
SCE1572_10169	94.2	874.52
SCE1572_1315	25.71	95.43
SCE1572_9968	21.89	7.08
SCE1572_3736	38.47	50.83
SCE1572_810	33.85	24.49
SCE1572_7909	37.37	72.64
SCE1572_2256	24.47	14.54
SCE1572_8214	53.91	44.75
SCE1572_3020	66.8	20.63
SCE1572_6906	0	0
SCE1572_6577	17.27	15.01
SCE1572_3489	19.69	6.32
SCE1572_6965	21.74	16.97
SCE1572_1831	0	0
SCE1572_8681	44.59	11.45
SCE1572_3756	35.45	9.82
SCE1572_5868	98.83	82.74
SCE1572_3928	85.48	90.1

SCE1572_4724	54.26	26.87
SCE1572_1444	17.04	21.18
SCE1572_7487	42.95	23.42
SCE1572_7528	33.37	30.47
SCE1572_6488	11.43	4.34
SCE1572_7581	556.71	1523.64
SCE1572_11247	22.46	16.89
SCE1572_4786	338.42	4659.99
SCE1572_297	48.31	28.45
SCE1572_6386	31.98	9.5
SCE1572_9944	3.3	0
SCE1572_3357	0	0
SCE1572_10508	74.24	352.34
SCE1572_2044	3.16	0
SCE1572_5255	4.67	0
SCE1572_4405	28.84	7.12
SCE1572_4497	37.54	103.11
SCE1572_6970	10.24	180
SCE1572_6083	38.14	9.36
SCE1572_8916	28.63	130.15
SCE1572_6801	35.38	28.38
SCE1572_1160	23.8	12.63
SCE1572_703	24.68	12.73
SCE1572_658	512	746.69
SCE1572_3891	41.38	54.77
SCE1572_9614	92.99	0
SCE1572_9589	32.37	74.6
SCE1572_5653	54.26	331.89
SCE1572_6562	18.18	15.58
SCE1572_10996	36.73	18.81
SCE1572_8164	16.44	17.59
SCE1572_7116	62.12	129.24
SCE1572_633	19.28	33.75
SCE1572_6992	64.7	22.58
SCE1572_5512	55.88	94.74
SCE1572_1502	57.05	222.51
SCE1572_145	28.24	23.25
SCE1572_433	41.69	32.21
SCE1572_7636	363.24	7582.13
SCE1572_1909	0	0
SCE1572_11261	131.08	57.02
SCE1572_6529	31.7	33.06
SCE1572_4675	22.82	16.53
SCE1572_11512	364.07	1268.22
SCE1572_6191	27.4	76.94
SCE1572_5454	26.22	13.72
SCE1572_6379	21.05	0
SCE1572_8907	42.92	44.27

SCE1572_1482	51.24	21.96
SCE1572_9810	28.25	34.99
SCE1572_8771	0	0
SCE1572_9442	11.66	2.25
SCE1572_4746	37.28	18.98
SCE1572_4706	49.35	46.02
SCE1572_11442	39.52	43.67
SCE1572_9347	37.04	12.44
SCE1572_4991	8.62	6.92
SCE1572_3699	31.41	5.21
SCE1572_4956	35.44	59.42
SCE1572_7881	27.55	26.16
SCE1572_2392	95.58	258.82
SCE1572_8417	22.06	17.02
SCE1572_6319	34.1	31.57
SCE1572_8197	20.26	10.09
SCE1572_10418	36.24	50.49
SCE1572_10515	103.94	195.63
SCE1572_4360	65.52	119.28
SCE1572_8900	161.12	160.07
SCE1572_8949	11.78	22.44
SCE1572_9208	15.16	16.68
SCE1572_527	25.64	58.18
SCE1572_2191	93.5	1067.07
SCE1572_7236	27.59	83.89
SCE1572_366	82.15	279.72
SCE1572_7615	23.92	19.02
SCE1572_5493	0	0
SCE1572_9244	7.34	0
SCE1572_4756	43.85	22.89
SCE1572_3258	21.41	98.83
SCE1572_8621	43.59	155.84
SCE1572_1347	147.92	618.88
SCE1572_6545	64.6	282.42
SCE1572_3973	21.78	72.58
SCE1572_874	160.97	78.09
SCE1572_3435	52.85	69.39
SCE1572_10544	15.55	3.12
SCE1572_4418	19.36	15.53
SCE1572_2618	0	0
SCE1572_732	41.71	21.98
SCE1572_5028	30.13	23.65
SCE1572_3336	40.48	501.97
SCE1572_5055	33.72	19.83
SCE1572_11503	39.74	16.08
SCE1572_6659	60.16	72.39
SCE1572_4969	26.76	8.59
SCE1572_8161	25.72	2.77

SCE1572_10952	0	0
SCE1572_4633	36.23	31.22
SCE1572_5749	25.45	18.71
SCE1572_5678	81.32	256.66
SCE1572_2652	54.9	27.67
SCE1572_7229	25.81	134.42
SCE1572_7105	36.87	17.04
SCE1572_6520	26.12	25.83
SCE1572_1768	70.5	23.28
SCE1572_6860	45.56	22.92
SCE1572_3239	19.12	13.15
SCE1572_7215	34.9	64.32
SCE1572_2622	38.57	3.2
SCE1572_3088	28.64	24.33
SCE1572_10855	46.34	31.76
SCE1572_8845	20.67	9.33
SCE1572_5306	426.08	1492.86
SCE1572_9360	35.57	327.21
SCE1572_278	16.69	6.7
SCE1572_10036	16.74	6.72
SCE1572_4164	48.26	18.77
SCE1572_3242	17.27	0
SCE1572_1413	18.81	14.14
SCE1572_8541	17.89	239.86
SCE1572_5886	41.9	19.74
SCE1572_1843	48.06	22.81
SCE1572_8862	48.88	12
SCE1572_6516	11.87	2.86
SCE1572_3162	47.88	151
SCE1572_11169	27.74	7.03
SCE1572_11019	51.47	147.31
SCE1572_9160	39.51	110.53
SCE1572_5205	47.96	48.97
SCE1572_3871	41.52	94.32
SCE1572_5020	24.36	18.32
SCE1572_4232	16.8	4.49
SCE1572_258	40.66	61.16
SCE1572_1062	120.23	14.71
SCE1572_10598	0	0
SCE1572_9707	196.21	64.4
SCE1572_7718	30.8	12.43
SCE1572_10089	40.98	103.56
SCE1572_10080	275.77	1102.7
SCE1572_3706	58.62	47.03
SCE1572_5803	21.26	24.24
SCE1572_6893	25.62	11.26
SCE1572_6999	57.9	7.34
SCE1572_9679	144.72	484.35

SCE1572_3513	40.06	309.94
SCE1572_9856	28.93	16.81
SCE1572_583	19.37	68.93
SCE1572_2113	54.24	50.33
SCE1572_8355	39.11	15.97
SCE1572_1368	37.23	75.68
SCE1572_801	28.29	24.41
SCE1572_7222	30.39	585.22
SCE1572_7452	33.52	53.78
SCE1572_2659	54.32	40.98
SCE1572_3275	284.77	533.1
SCE1572_7534	5.83	0
SCE1572_404	61.03	65.41
SCE1572_10619	73.31	45.62
SCE1572_3921	48.88	54.47
SCE1572_4488	66.43	32.09
SCE1572_5095	41.23	139.9
SCE1572_8847	0	0
SCE1572_4835	126.98	102.63
SCE1572_2724	36.85	157.02
SCE1572_628	15.16	28.75
SCE1572_9309	0	0
SCE1572_6455	2.14	0
SCE1572_2575	25.17	12.7
SCE1572_7573	30.1	224.57
SCE1572_3003	18.47	57.42
SCE1572_5671	60.19	31.44
SCE1572_202	52.2	45.27
SCE1572_3455	19.27	6.14
SCE1572_11332	33.97	87.74
SCE1572_7804	67.35	58.56
SCE1572_10718	15.29	52.13
SCE1572_4686	49.1	248.77
SCE1572_4249	2.14	0
SCE1572_6869	22.5	15.47
SCE1572_10052	28.7	84.71
SCE1572_1709	56.12	42.78
SCE1572_969	42.35	121.15
SCE1572_5229	31.52	72.26
SCE1572_5143	70.11	10.55
SCE1572_1711	62.9	45.11
SCE1572_7843	80.57	342.01
SCE1572_10230	49.74	16.41
SCE1572_6294	20.44	342.37
SCE1572_3338	203.96	3041.02
SCE1572_1012	37.19	5.51
SCE1572_4844	37.35	68.75
SCE1572_10282	35.11	126.76

SCE1572_6288	34.18	12.66
SCE1572_189	48.78	57.12
SCE1572_1058	5.09	2.45
SCE1572_1728	54.03	32.51
SCE1572_8474	14.17	13.57
SCE1572_2423	127.03	355.06
SCE1572_9406	21.19	51.01
SCE1572_2502	0	0
SCE1572_6413	126.19	77.06
SCE1572_5023	0	0
SCE1572_5220	25.82	73.38
SCE1572_4411	24.52	6.89
SCE1572_4015	90.58	144.57
SCE1572_1094	30.72	14.47
SCE1572_10263	56.94	33.46
SCE1572_5869	19.33	198.38
SCE1572_7228	82.13	1060.98
SCE1572_9169	38.78	18.3
SCE1572_651	69.16	0
SCE1572_198	32.06	80.28
SCE1572_8376	7.64	0
SCE1572_5934	16.11	3.53
SCE1572_5030	133.21	902.2
SCE1572_11284	24.61	36.73
SCE1572_11299	42.57	15.44
SCE1572_9896	9.13	0
SCE1572_5005	42.96	0
SCE1572_6878	186	40.13
SCE1572_10973	50.65	242.2
SCE1572_5136	22.41	21.22
SCE1572_5958	50.86	46.19
SCE1572_459	13.04	3.92
SCE1572_8758	74.79	340.31
SCE1572_7972	16.44	89.4
SCE1572_10646	72.64	34.69
SCE1572_9661	262.85	1816.64
SCE1572_5734	48.49	104.38
SCE1572_3619	38.35	14.27
SCE1572_10393	80.71	32.68
SCE1572_1211	30.51	24.48
SCE1572_86	0	0
SCE1572_7210	4.84	1.94
SCE1572_11560	45.35	24.66
SCE1572_3286	27.03	16.97
SCE1572_10040	28.6	40.6
SCE1572_3521	52.86	60.82
SCE1572_3611	23.63	24.18
SCE1572_11208	84.16	135.29

SCE1572_3545	0	0
SCE1572_3472	37.09	7.81
SCE1572_9902	21.87	24.56
SCE1572_7735	536.4	3430.82
SCE1572_8529	48.51	31.46
SCE1572_7764	10.24	4.93
SCE1572_5218	51.52	24.8
SCE1572_1547	24.63	35.2
SCE1572_3390	59.33	150.73
SCE1572_6109	40.43	6.49
SCE1572_3202	131.4	3207.09
SCE1572_7550	65.64	22.85
SCE1572_5119	28.5	61.68
SCE1572_11180	7.29	2.63
SCE1572_6852	0	0
SCE1572_9921	59.69	82.86
SCE1572_10245	50.26	14.11
SCE1572_10707	0	0
SCE1572_182	119.89	128.74
SCE1572_7084	132.93	71.1
SCE1572_9288	709.78	1088.31
SCE1572_565	105.14	367.59
SCE1572_8684	16.9	28.36
SCE1572_5174	7.19	1.73
SCE1572_6598	51.8	39.53
SCE1572_9036	28.98	18.32
SCE1572_354	24.5	14.74
SCE1572_8789	38.24	95.29
SCE1572_4433	56.42	19.4
SCE1572_2202	54.73	487.75
SCE1572_2051	62.4	19.76
SCE1572_2519	57.96	20.49
SCE1572_8808	16.77	8.77
SCE1572_8126	23.66	10.17
SCE1572_11395	102.3	621.39
SCE1572_4291	16.9	26.73
SCE1572_11162	26.27	57.97
SCE1572_7847	52.97	48.36
SCE1572_621	36.63	22.65
SCE1572_1871	49.98	48.92
SCE1572_5664	13.89	29.51
SCE1572_3668	41.66	18.08
SCE1572_1247	26.36	7.61
SCE1572_3344	102.52	356
SCE1572_10570	87.74	150.83
SCE1572_778	30.67	41.52
SCE1572_6834	0	0
SCE1572_10181	17.98	24.04

SCE1572_3625	46.21	13.9
SCE1572_3676	117.75	183.94
SCE1572_3462	1.67	72.18
SCE1572_8015	18.3	229.65
SCE1572_5240	7.75	23.97
SCE1572_4519	34.33	214.59
SCE1572_52	6.15	0
SCE1572_4220	31.64	38.08
SCE1572_10248	52.02	21.4
SCE1572_2641	65.36	57.47
SCE1572_8560	32.64	22.7
SCE1572_3814	53.78	66.81
SCE1572_1870	5.78	1.07
SCE1572_10720	43.25	17.35
SCE1572_8318	9.97	4.8
SCE1572_4287	25.09	7.49
SCE1572_27	715.39	1257.74
SCE1572_5573	39.33	21.85
SCE1572_271	167.6	1088.58
SCE1572_7575	48.77	115.87
SCE1572_3477	0	0
SCE1572_10788	65.34	45.46
SCE1572_7831	40.43	116.35
SCE1572_6019	34.53	25.29
SCE1572_8926	35.22	57.6
SCE1572_10949	42.51	10.23
SCE1572_6619	31.81	15.31
SCE1572_4002	113.52	1573.84
SCE1572_1375	43.66	43.45
SCE1572_1455	61.79	36.03
SCE1572_11589	15.72	24.41
SCE1572_3806	26.37	0
SCE1572_8656	81.86	917.16
SCE1572_11546	39.03	4.32
SCE1572_1548	51.71	25.11
SCE1572_6700	10.13	4.48
SCE1572_4268	50.25	14.6
SCE1572_2899	71.26	20.72
SCE1572_9243	70.24	57.13
SCE1572_6640	61.97	20.64
SCE1572_3939	12.16	15.49
SCE1572_6596	19.42	3.9
SCE1572_7541	29.11	49.63
SCE1572_826	40.9	12.54
SCE1572_3816	0	0
SCE1572_3748	34.91	61.51
SCE1572_5350	416.44	380.74
SCE1572_7442	19.07	7.84

SCE1572_6919	39.52	29.4
SCE1572_6028	22.17	157.92
SCE1572_7870	71.79	77.45
SCE1572_7692	120.13	199.44
SCE1572_10068	254.23	1070.29
SCE1572_9887	32.75	40.69
SCE1572_4132	65.46	134.18
SCE1572_3136	43.16	17.31
SCE1572_5594	30.74	23.83
SCE1572_1393	22.3	17.89
SCE1572_11191	60.58	88.67
SCE1572_7697	33.04	44.5
SCE1572_9746	51.04	41.91
SCE1572_2483	29.42	16.34
SCE1572_9880	19.19	18.48
SCE1572_3058	32.22	13.68
SCE1572_5360	0	0
SCE1572_4853	20.31	8.73
SCE1572_4477	45.12	12.72
SCE1572_8241	24.44	91
SCE1572_5922	8.78	19.21
SCE1572_10321	35.18	108.87
SCE1572_7701	40.05	6.89
SCE1572_7504	35.24	17.61
SCE1572_5322	72.65	83.63
SCE1572_3839	60.97	25.97
SCE1572_8727	53.45	19.25
SCE1572_10878	59.1	14.43
SCE1572_9496	52.1	160.52
SCE1572_5410	0	0
SCE1572_771	42.41	47.42
SCE1572_9681	138.2	385.91
SCE1572_7838	22.99	6.3
SCE1572_3751	41.06	30.41
SCE1572_6463	0	0
SCE1572_6330	41.89	141.37
SCE1572_6320	13.31	12.46
SCE1572_11550	20.87	18.51
SCE1572_129	5.91	0
SCE1572_7099	31.42	3.29
SCE1572_5918	0	0
SCE1572_6070	10.2	21.05
SCE1572_1566	23.68	8.88
SCE1572_2510	51.8	54.49
SCE1572_5590	67.54	22.48
SCE1572_10261	97.42	91.09
SCE1572_2710	37.44	21.02
SCE1572_9562	11.23	0

SCE1572_7925	22.24	7.3
SCE1572_350	51.23	1825.44
SCE1572_6753	57.65	39.91
SCE1572_8567	48.69	46.77
SCE1572_4212	2.61	0
SCE1572_5584	37.61	15.09
SCE1572_83	27.7	29.89
SCE1572_3126	29.42	177.01
SCE1572_4546	26.64	8.22
SCE1572_9280	15.76	6.54
SCE1572_2144	14.7	49.65
SCE1572_7877	72.46	16.12
SCE1572_11112	21.19	18.13
SCE1572_5536	38.08	37
SCE1572_4629	56.9	136.96
SCE1572_4239	80.18	354.86
SCE1572_9675	38.75	92.72
SCE1572_4943	74.27	430.91
SCE1572_9639	0	0
SCE1572_9236	30.52	14.22
SCE1572_2690	27.92	17.27
SCE1572_9536	84.92	38.37
SCE1572_4765	15.54	10.59
SCE1572_1222	34.51	17.8
SCE1572_6185	37.54	19.95
SCE1572_1174	16.24	0
SCE1572_4948	20.84	12.11
SCE1572_2891	8.79	0
SCE1572_8890	208.85	71.16
SCE1572_8668	15.96	2.4
SCE1572_10820	110.27	201.42
SCE1572_2878	61.3	79.05
SCE1572_2056	33.22	4.51
SCE1572_7258	51.03	29.52
SCE1572_487	59.58	74.46
SCE1572_201	3.94	0
SCE1572_11034	109.43	1709.33
SCE1572_4620	17.96	34.33
SCE1572_392	60.79	7.57
SCE1572_6204	30.72	64.3
SCE1572_845	0	0
SCE1572_57	67.53	20.44
SCE1572_5473	14.03	22.08
SCE1572_441	473.54	202.46
SCE1572_7206	23.33	6.24
SCE1572_5821	28.54	36.26
SCE1572_5599	98.35	51.68
SCE1572_4280	33.69	21.47

SCE1572_4142	0	0
SCE1572_30	180.68	513.49
SCE1572_9216	57.78	95.37
SCE1572_5900	13.65	18.77
SCE1572_2316	15.56	9.55
SCE1572_8546	48.24	17.56
SCE1572_4035	41.44	32.85
SCE1572_4566	14.01	13.8
SCE1572_7285	91.83	84.95
SCE1572_4659	46.98	59.62
SCE1572_6695	12.86	10.67
SCE1572_7588	48.77	392.72
SCE1572_3693	48.48	18.7
SCE1572_10959	28.77	12.22
SCE1572_9959	13.81	17.68
SCE1572_9932	62.98	5.61
SCE1572_7641	98.47	1032.43
SCE1572_11517	21.09	15.31
SCE1572_9714	44.28	1401.56
SCE1572_6942	35.27	16.69
SCE1572_763	41.35	21.11
SCE1572_9828	34.13	19.95
SCE1572_3221	42.29	105.64
SCE1572_11381	18.89	46.59
SCE1572_6166	58.27	196.07
SCE1572_10999	58.48	5.21
SCE1572_1266	927.38	11063.23
SCE1572_8247	29.5	16.51
SCE1572_7600	52.75	79.76
SCE1572_11321	32.25	24.51
SCE1572_4077	25.27	72.59
SCE1572_2870	16.03	8.04
SCE1572_8362	0	0
SCE1572_10940	22.4	13.82
SCE1572_951	111.57	158.36
SCE1572_10832	50.05	283.05
SCE1572_1389	20.34	233.18
SCE1572_2542	71.92	9.36
SCE1572_9514	90.97	724.5
SCE1572_3304	8.16	5.61
SCE1572_3912	11.43	33.01
SCE1572_1370	60.98	220.16
SCE1572_4295	38.41	14.6
SCE1572_10566	60.38	26.35
SCE1572_8421	23.87	28.72
SCE1572_1080	28.02	20.75
SCE1572_5339	45.75	31.46
SCE1572_4656	25.39	69.84

SCE1572_3040	22.31	10.07
SCE1572_10227	29.71	9.86
SCE1572_7147	39.36	109.8
SCE1572_6168	14.53	17.02
SCE1572_1674	90.97	257.27
SCE1572_8000	57.69	25.84
SCE1572_6925	12.06	8.29
SCE1572_11373	121.19	754.67
SCE1572_10654	33.06	212.19
SCE1572_11526	84.61	31.44
SCE1572_9522	7.29	3.51
SCE1572_3414	87.28	128.66
SCE1572_1896	0	0
SCE1572_4602	35.91	103.23
SCE1572_6798	27.52	30.22
SCE1572_4080	37.73	206
SCE1572_4046	0	0
SCE1572_5246	305.03	1077.49
SCE1572_3212	18.4	30.11
SCE1572_4694	32.58	30.41
SCE1572_7983	168.22	209.1
SCE1572_6665	31.31	141.8
SCE1572_5568	18.12	15.17
SCE1572_3144	15.16	2.81
SCE1572_1125	54.28	19.71
SCE1572_8778	41.17	16.32
SCE1572_2334	0	0
SCE1572_518	0	0
SCE1572_10208	37.04	16.08
SCE1572_7369	8.29	2.85
SCE1572_10494	61.94	490.61
SCE1572_9621	35.79	16.25
SCE1572_8071	62.8	38.87
SCE1572_4448	22.13	10.65
SCE1572_6161	39.63	21.77
SCE1572_4937	33.57	80.8
SCE1572_8953	28.74	9.15
SCE1572_5974	0	0
SCE1572_5370	0	0
SCE1572_3855	45.53	26.5
SCE1572_3029	17.27	0
SCE1572_9805	27.09	18.49
SCE1572_10892	30.68	74.46
SCE1572_2766	79.86	68.25
SCE1572_11187	5.23	3.15
SCE1572_10505	47.44	21.19
SCE1572_1289	0	0
SCE1572_1035	28.57	22.74

SCE1572_6310	25.43	302.53
SCE1572_5179	5.86	94.76
SCE1572_2537	8.14	24.92
SCE1572_6910	43.03	15.26
SCE1572_3403	17.15	42.62
SCE1572_5182	12.9	432.21
SCE1572_9377	14.73	16.25
SCE1572_6223	29.64	16.46
SCE1572_6314	17.18	0
SCE1572_7551	106.22	86.59
SCE1572_5715	42.15	39.37
SCE1572_3608	73.85	858.83
SCE1572_8766	48.27	16.42
SCE1572_5000	100.39	118.35
SCE1572_10593	3.09	0
SCE1572_8597	56.63	18.53
SCE1572_3179	38.12	6.19
SCE1572_3	101.32	282.07
SCE1572_1100	40.98	58.08
SCE1572_11340	29.9	11.36
SCE1572_8296	22.74	68.01
SCE1572_389	11.03	8.29
SCE1572_381	40.53	10.84
SCE1572_11253	93.61	1304.73
SCE1572_2597	1.63	10.47
SCE1572_9019	4.8	3.85
SCE1572_4089	33.56	93.78
SCE1572_3529	83.35	823.04
SCE1572_4481	36.81	10.49
SCE1572_2321	79.47	420.29
SCE1572_9332	0	0
SCE1572_10122	62.4	22.32
SCE1572_6896	55.77	202.01
SCE1572_3372	23.57	34.71
SCE1572_3247	67.38	238.6
SCE1572_10434	49.09	48.06
SCE1572_10137	43.74	19.09
SCE1572_9031	58.11	40.29
SCE1572_7481	31.01	0
SCE1572_9653	64.68	22.86
SCE1572_7057	29.58	0
SCE1572_10190	67.21	194.73
SCE1572_11014	53.86	33.82
SCE1572_130	42.4	15.41
SCE1572_2927	25.07	5.75
SCE1572_215	41.63	33.75
SCE1572_7903	9.72	11.7
SCE1572_5295	15.38	3.53

SCE1572_8261	78.55	334.15
SCE1572_8648	54.93	8.26
SCE1572_6591	32.37	14.27
SCE1572_191	44.61	21.41
SCE1572_9062	53.07	29.86
SCE1572_10663	86.64	130.69
SCE1572_4467	21.72	6.54
SCE1572_4201	21.32	19.96
SCE1572_7106	19.78	7.93
SCE1572_11226	42.92	21.47
SCE1572_9212	42.33	54.06
SCE1572_483	20.43	12.29
SCE1572_3536	19.98	5.66
SCE1572_2471	19.48	5.7
SCE1572_2431	72.15	542.99
SCE1572_1981	0	0
SCE1572_3743	20.86	24.49
SCE1572_1737	40.01	15.21
SCE1572_8103	28.7	38.97
SCE1572_5541	40.95	159.39
SCE1572_10124	123.56	47.4
SCE1572_9576	30.99	7.99
SCE1572_4814	176.18	476.43
SCE1572_287	40.99	61.22
SCE1572_939	34.52	13.71
SCE1572_10096	38.39	95.98
SCE1572_5471	40.06	17.02
SCE1572_3832	31.79	98.1
SCE1572_3170	39.34	90.43
SCE1572_2094	17.08	33.41
SCE1572_7854	27.44	66.05
SCE1572_10582	12.4	13.27
SCE1572_9196	47.08	21.13
SCE1572_6709	43.7	88.01
SCE1572_4933	37.9	136.85
SCE1572_11276	59.64	31.63
SCE1572_8615	47.05	35.46
SCE1572_5393	155.3	73.49
SCE1572_5405	11.72	19.39
SCE1572_10589	16.85	4.51
SCE1572_2451	0	0
SCE1572_8320	10.46	16.78
SCE1572_1091	53.2	10.47
SCE1572_5467	41.45	16.18
SCE1572_7463	87.23	322.93
SCE1572_11039	27.46	22.26
SCE1572_7653	14.56	16.49
SCE1572_641	54.05	87.26

SCE1572_5148	31.43	2.97
SCE1572_10288	90.25	70.3
SCE1572_9654	24.51	7.51
SCE1572_10579	26.5	7.09
SCE1572_578	5.27	0
SCE1572_8086	19.22	0
SCE1572_711	67.27	313.52
SCE1572_6873	46.1	368.62
SCE1572_3209	43.38	41.77
SCE1572_3922	46.36	21.11
SCE1572_9978	42.06	6.25
SCE1572_7478	58.22	163.49
SCE1572_11264	33.81	118.35
SCE1572_5499	18.99	5.9
SCE1572_7404	8.75	152.99
SCE1572_6332	65.51	40.69
SCE1572_1334	6.05	0
SCE1572_3315	21.08	37.08
SCE1572_7994	58.31	0
SCE1572_6977	8.01	0
SCE1572_7278	28.03	9.2
SCE1572_11421	38.79	40.46
SCE1572_11450	35.09	60.43
SCE1572_9619	76.64	46.17
SCE1572_6744	15.47	2.98
SCE1572_7390	14.47	13.63
SCE1572_3313	33.69	10.46
SCE1572_11234	20.73	9.78
SCE1572_11398	47.64	267.36
SCE1572_3609	26.52	6.01
SCE1572_7167	0	0
SCE1572_5902	53.57	15.27
SCE1572_10184	13.78	64.4
SCE1572_6649	80.37	4.4
SCE1572_3427	43.07	35.72
SCE1572_8532	36.65	0
SCE1572_6125	21.28	61.46
SCE1572_8938	10.83	19.55
SCE1572_4767	109.93	195
SCE1572_1234	16.73	7.43
SCE1572_10344	799.46	6126.12
SCE1572_10932	21.03	37.97
SCE1572_7134	46.24	20.7
SCE1572_543	24.45	16.05
SCE1572_8986	2.33	0
SCE1572_8489	83.46	97.47
SCE1572_997	18.55	24.24
SCE1572_9488	55.13	70.63

SCE1572_10993	0	0
SCE1572_9594	22.55	445.76
SCE1572_3883	20.73	12.48
SCE1572_9994	82.56	29.47
SCE1572_11081	36.86	134.86
SCE1572_769	31.19	8.34
SCE1572_594	15.01	3.61
SCE1572_7655	23.55	8.86
SCE1572_7399	21.46	26.66
SCE1572_127	28.1	15.73
SCE1572_1979	1404.97	4309.83
SCE1572_6129	152.42	390.44
SCE1572_265	42.06	21.69
SCE1572_6030	21.46	19.78
SCE1572_1946	47.43	31.19
SCE1572_1436	31.08	18.13
SCE1572_992	128.55	262.62
SCE1572_891	34.1	84.65
SCE1572_7262	31.35	32.05
SCE1572_10310	11.22	6.14
SCE1572_9761	10.66	19.96
SCE1572_6003	52	726.83
SCE1572_6242	18.57	13.68
SCE1572_7526	0	0
SCE1572_5928	68.16	73.65
SCE1572_11303	33.06	33.66
SCE1572_413	27.92	11.77
SCE1572_1641	53.22	16.92
SCE1572_2061	27.24	15.3
SCE1572_7240	50.69	83.13
SCE1572_9710	52.88	132.13
SCE1572_7050	0	0
SCE1572_2769	17.44	16.32
SCE1572_760	1124.53	486.8
SCE1572_311	27.44	24.48
SCE1572_10401	34.42	74.96
SCE1572_9201	63.17	25.73
SCE1572_11401	46.78	25.23
SCE1572_6779	9.17	6.79
SCE1572_7985	32.95	72.69
SCE1572_4812	64.32	60.82
SCE1572_4155	17.71	51.94
SCE1572_2358	65.87	95.63
SCE1572_8550	38.45	117.3
SCE1572_807	49.35	39.19
SCE1572_9738	30.86	6.4
SCE1572_8444	24.68	19.09
SCE1572_2745	31.88	70.82

SCE1572_4334	28.57	7.93
SCE1572_4191	36.01	39.6
SCE1572_5248	26.34	53.43
SCE1572_3195	53.86	0
SCE1572_10492	63.37	229.77
SCE1572_9528	97.7	184.03
SCE1572_10296	221.97	4072.53
SCE1572_1469	6.52	11.77
SCE1572_11108	34.93	36.32
SCE1572_10211	47.62	40.94
SCE1572_6176	95.09	146.22
SCE1572_8250	57.96	125.08
SCE1572_8777	29.56	22.4
SCE1572_3502	37.77	39.52
SCE1572_9683	51.04	270.98
SCE1572_2219	0	0
SCE1572_10483	47.77	31.66
SCE1572_5786	40.58	39.71
SCE1572_7447	3.53	0
SCE1572_10272	43.65	509.6
SCE1572_1596	55.02	8.83
SCE1572_9116	97.72	297.03
SCE1572_6500	29.83	59.82
SCE1572_3302	101.08	121.03
SCE1572_9358	39.7	110.8
SCE1572_7955	41.86	71.86
SCE1572_7171	29.42	0
SCE1572_1807	12.92	37.84
SCE1572_105	36.48	0
SCE1572_1756	7.13	0
SCE1572_11477	41.78	8.69
SCE1572_494	41.86	12.71
SCE1572_6346	20.1	25.24
SCE1572_7313	39.98	23.87
SCE1572_1293	19.98	11.03
SCE1572_2688	12.88	19.73
SCE1572_9911	24.87	17.27
SCE1572_5190	59.69	189.8
SCE1572_10507	129.96	186.81
SCE1572_5266	33.47	107.11
SCE1572_8701	24.2	30.75
SCE1572_11210	61.77	29.73
SCE1572_7269	202.72	1120.45
SCE1572_4506	34.52	13.03
SCE1572_7009	73.58	24.82
SCE1572_9754	21.37	28.57
SCE1572_529	10.03	0
SCE1572_10361	25.84	901.94

SCE1572_10256	58.8	24.26
SCE1572_8571	15.59	6.82
SCE1572_2843	7.82	7.52
SCE1572_11203	34.57	62.4
SCE1572_677	48.25	27.72
SCE1572_9640	541.37	1262.76
SCE1572_5508	1.64	0
SCE1572_8228	21.24	6.1
SCE1572_9462	22.42	43.9
SCE1572_3950	0	0
SCE1572_1201	37.9	15.46
SCE1572_11085	52.67	138.29
SCE1572_1773	0	0
SCE1572_9068	16.44	16.95
SCE1572_721	46.73	34.03
SCE1572_1811	34.33	24.59
SCE1572_5554	89.53	92.97
SCE1572_3666	41.47	3.27
SCE1572_7163	49.59	80.71
SCE1572_10533	36.23	81.84
SCE1572_4583	0	0
SCE1572_2681	95.6	16.22
SCE1572_10353	2042.3	2793.71
SCE1572_9061	26.72	13.74
SCE1572_2907	53.07	549.04
SCE1572_208	10.64	3.2
SCE1572_6667	100.73	100.2
SCE1572_6091	31.59	8.69
SCE1572_11278	19.69	0
SCE1572_909	66.44	32.63
SCE1572_9352	29.96	175.1
SCE1572_3711	91.96	0
SCE1572_2182	13.69	6.34
SCE1572_4111	31.52	9.03
SCE1572_9379	15.36	5.55
SCE1572_4591	13.87	13.35
SCE1572_7188	43.75	113.48
SCE1572_3725	261.64	4918.72
SCE1572_2282	30.94	74.47
SCE1572_6761	6.08	5.57
SCE1572_1732	48.75	28.37
SCE1572_7905	62.26	22.92
SCE1572_3717	65.33	89.4
SCE1572_2524	26.01	27.97
SCE1572_8294	35.26	30.55
SCE1572_4533	23.11	5.85
SCE1572_10665	71.07	323.58
SCE1572_14	23.39	24.5

SCE1572_5578	22.74	0
SCE1572_9847	22	11.07
SCE1572_10377	57.59	12.73
SCE1572_9556	28.36	60.7
SCE1572_1473	45.62	21.53
SCE1572_11281	20.36	5.17
SCE1572_361	3.99	0
SCE1572_6749	10.7	4.29
SCE1572_3443	30.99	6.05
SCE1572_6552	0	0
SCE1572_4369	54.58	92.45
SCE1572_5603	37.43	58.02
SCE1572_2066	70	59.73
SCE1572_4568	12.78	2.12
SCE1572_10094	59.65	0
SCE1572_900	40.61	22.51
SCE1572_4871	31.59	30.41
SCE1572_10177	44.07	140.03
SCE1572_7046	12.63	7.6
SCE1572_1854	0	0
SCE1572_8528	48.15	82.05
SCE1572_8280	13.21	3.61
SCE1572_5700	7.43	0
SCE1572_5199	50.54	48.38
SCE1572_4364	49.52	19.98
SCE1572_2949	13.96	0
SCE1572_11079	178.17	1896.77
SCE1572_1182	0	0
SCE1572_7820	108.69	525.8
SCE1572_11286	59.68	126.45
SCE1572_5636	30.51	71.15
SCE1572_561	109.44	966.68
SCE1572_10396	16.32	14.73
SCE1572_1280	61.33	19.68
SCE1572_9521	0	0
SCE1572_11552	46.52	24.88
SCE1572_4920	30.8	5.7
SCE1572_6984	13.54	13.03
SCE1572_8267	71.32	85.34
SCE1572_7722	117.43	110.91
SCE1572_10926	0	0
SCE1572_10919	20.22	14.31
SCE1572_5662	14.15	34.06
SCE1572_556	13.24	4.78
SCE1572_11245	33.28	14.83
SCE1572_820	60.94	60.82
SCE1572_911	20.83	15.16
SCE1572_7259	0	0

SCE1572_5811	31.07	18.81
SCE1572_1902	108.97	32.87
SCE1572_1072	21.35	9.12
SCE1572_989	63.36	155.23
SCE1572_9543	46.16	19.46
SCE1572_3959	9.72	6.18
SCE1572_8238	63.33	465.39
SCE1572_2552	28.22	30.51
SCE1572_1529	17.12	13.96
SCE1572_10829	31.15	15
SCE1572_8221	25.7	7.17
SCE1572_3640	14.33	99.85
SCE1572_6613	65.56	45.37
SCE1572_11154	50.54	129.75
SCE1572_4916	50.44	479.74
SCE1572_280	61.97	31.86
SCE1572_4893	57.76	57.92
SCE1572_3086	49.38	15.07
SCE1572_10942	138.01	60.15
SCE1572_5113	5.67	6.21
SCE1572_9800	36.12	28.7
SCE1572_5769	331.14	2884.68
SCE1572_2675	15.98	100.17
SCE1572_2246	38.51	38.72
SCE1572_5313	20.67	9.22
SCE1572_1079	0	0
SCE1572_237	97.14	30.59
SCE1572_6783	13.55	53.01
SCE1572_3013	21.39	22.39
SCE1572_2925	60.98	31.64
SCE1572_6057	116.06	271.8
SCE1572_5387	36.41	52.44
SCE1572_9719	32.07	445.63
SCE1572_3905	124.23	675.19
SCE1572_1554	71.37	42.02
SCE1572_7750	31.82	4.51
SCE1572_10742	46.97	33.58
SCE1572_8964	41.59	82.35
SCE1572_5672	0	0
SCE1572_4792	25.27	4.05
SCE1572_8289	21.35	28.27
SCE1572_11357	50.54	26.44
SCE1572_10800	28.74	30.05
SCE1572_8860	40.64	11.29
SCE1572_8490	17.33	39.39
SCE1572_1325	32.82	7.52
SCE1572_5216	17.43	40.55
SCE1572_4308	0	0

SCE1572_2772	11.06	7.6
SCE1572_8720	10.16	10.19
SCE1572_3369	90.91	197.47
SCE1572_9137	13.54	16.29
SCE1572_5709	33.69	45.75
SCE1572_243	10.91	2.63
SCE1572_3226	53.58	20.52
SCE1572_11056	8.25	24.82
SCE1572_5548	32.72	13.31
SCE1572_2821	100.94	87.13
SCE1572_390	35.28	13.77
SCE1572_5538	45.25	60.51
SCE1572_5500	44.92	25.68
SCE1572_6469	31.18	7.5
SCE1572_2233	12.78	9.38
SCE1572_10157	27.34	42.54
SCE1572_616	33.78	125.55
SCE1572_8797	64.18	14.6
SCE1572_3270	25.2	172.86
SCE1572_7969	8.52	2.05
SCE1572_8257	65.49	183.32
SCE1572_8831	110.81	386.13
SCE1572_8665	42.36	16.1
SCE1572_669	28.94	17.86
SCE1572_5792	19.88	37.89
SCE1572_4820	27.51	33.11
SCE1572_9075	37.68	14.28
SCE1572_8341	29.16	24.56
SCE1572_4869	11.72	16.93
SCE1572_8729	11.54	15.87
SCE1572_2137	29.11	16.54
SCE1572_4544	38.12	31.28
SCE1572_2415	65.83	14.4
SCE1572_8699	44.46	21.4
SCE1572_5648	33.92	15.83
SCE1572_10813	38.93	54.25
SCE1572_9351	329.55	1299.85
SCE1572_439	251.3	56.14
SCE1572_2912	42.5	13.66
SCE1572_9411	55.31	295.59
SCE1572_3051	32.87	1.61
SCE1572_7699	17.84	15.74
SCE1572_8124	50.82	30.58
SCE1572_1919	45.36	34.37
SCE1572_2857	24.64	6.84
SCE1572_6772	15.47	0
SCE1572_5995	67.97	58.72
SCE1572_4181	12.95	14.79

SCE1572_8499	19.89	7.68
SCE1572_4550	40.18	14.63
SCE1572_11534	34.82	13.52
SCE1572_1824	22.31	33.84
SCE1572_4744	14.3	192.79
SCE1572_1829	236.36	860.14
SCE1572_10078	415.02	971.06
SCE1572_2402	29.71	120.82
SCE1572_5879	16.67	5.2
SCE1572_5920	28.61	62.54
SCE1572_3092	66.33	0
SCE1572_9458	60.29	70.42
SCE1572_5625	3.39	4.08
SCE1572_5273	9.6	4.62
SCE1572_10523	41.96	4.59
SCE1572_9469	104.21	188.11
SCE1572_8740	35.64	22.96
SCE1572_7115	24.5	4.91
SCE1572_5846	14.82	29.72
SCE1572_6638	36.27	17.72
SCE1572_507	41.16	13.21
SCE1572_4570	40.28	16.62
SCE1572_8738	52.88	40.55
SCE1572_9124	29.56	20.92
SCE1572_9699	29.32	23.15
SCE1572_140	10.11	8.69
SCE1572_7733	38.88	188.31
SCE1572_8886	26.66	10.15
SCE1572_11436	67.93	66.58
SCE1572_7629	27.52	82.45
SCE1572_6187	72.78	87.58
SCE1572_6151	22.52	4.54
SCE1572_8888	7.86	3.15
SCE1572_6608	16.85	62.66
SCE1572_5352	68.61	156.6
SCE1572_2672	44.9	58.95
SCE1572_10107	156.98	939.76
SCE1572_2381	54.98	165.57
SCE1572_3850	28.43	76.57
SCE1572_9076	36.98	19.07
SCE1572_11040	57.07	42.98
SCE1572_2719	39.73	27.68
SCE1572_10385	18.38	6.45
SCE1572_9885	33.97	58.06
SCE1572_1778	39.63	22.71
SCE1572_864	122.32	204.5
SCE1572_6147	21.87	7.26
SCE1572_7729	49.13	121.64

SCE1572_4512	0	0
SCE1572_6564	0	0
SCE1572_6116	50.28	19.96
SCE1572_3043	0	0
SCE1572_7023	0	0
SCE1572_150	28.57	20.32
SCE1572_9312	110.5	168.54
SCE1572_9151	32.05	11.87
SCE1572_1613	533.81	129.24
SCE1572_6031	41.3	40.7
SCE1572_2668	16.36	26.25
SCE1572_3698	42.28	42.11
SCE1572_2125	46.4	25.61
SCE1572_2150	21.06	4.34
SCE1572_9301	36.03	177.04
SCE1572_4754	49.44	70.52
SCE1572_6506	2.81	0
SCE1572_10499	22.39	484.93
SCE1572_4577	16.91	7.72
SCE1572_4356	24.92	20
SCE1572_2704	75.81	268.33
SCE1572_9604	10.34	1.46
SCE1572_2155	41.17	23.36
SCE1572_2958	74.34	49.01
SCE1572_8378	23.87	36.41
SCE1572_5429	46.59	90.72
SCE1572_1626	35.7	95.97
SCE1572_2275	126.99	825.49
SCE1572_4121	81.38	220.09
SCE1572_2397	56.6	1771.09
SCE1572_7065	60.65	59.14
SCE1572_893	35.41	72.11
SCE1572_4104	43.44	11.84
SCE1572_9819	54.25	16.74
SCE1572_1273	30.51	17.12
SCE1572_3453	31.42	13.7
SCE1572_11179	29.57	34.83
SCE1572_5380	15.04	4.22
SCE1572_1744	56.05	62.26
SCE1572_1758	67.02	20.33
SCE1572_2412	21.35	13.19
SCE1572_8135	20.71	6.15
SCE1572_60	47.34	39.29
SCE1572_9048	8.27	9.95
SCE1572_8925	1.26	0
SCE1572_6917	21.79	31.93
SCE1572_1783	59.82	141.5
SCE1572_8472	32.36	875.53

SCE1572_3343	140.48	330.66
SCE1572_1237	14.59	15.42
SCE1572_2425	164.33	310.57
SCE1572_1937	2.53	0
SCE1572_8467	33.14	8.49
SCE1572_1017	20.79	402.46
SCE1572_5168	48.05	135.6
SCE1572_5090	36.73	52.13
SCE1572_6021	76.83	101.09
SCE1572_7293	0	0
SCE1572_9772	28.04	72.48
SCE1572_4527	58.73	208.21
SCE1572_4862	3.32	0
SCE1572_10366	44.14	9.24
SCE1572_3971	26.32	21.32
SCE1572_7122	91.21	113.44
SCE1572_8650	32.15	12.55
SCE1572_2041	27.78	170.04
SCE1572_10961	41.92	100.89
SCE1572_3185	47.6	16.97
SCE1572_67	60.5	23.68
SCE1572_10252	0	0
SCE1572_10038	66.65	140.15
SCE1572_4428	16.95	29.47
SCE1572_9210	40.04	27.66
SCE1572_4770	53.51	161
SCE1572_8552	102.84	176.11
SCE1572_2632	48.22	20.99
SCE1572_10063	625.56	4775.6
SCE1572_2804	44.48	35.82
SCE1572_5108	132.3	126.81
SCE1572_10898	9.52	64.13
SCE1572_5420	33.43	70.4
SCE1572_3364	36.44	67.35
SCE1572_8442	9.78	10.46
SCE1572_10906	2.9	0
SCE1572_6514	11.02	2.79
SCE1572_3994	89.93	36.67
SCE1572_11201	53.39	123.66
SCE1572_6054	22.06	70.39
SCE1572_5039	18.19	48.66
SCE1572_2910	48.88	18.52
SCE1572_6449	190.51	57.12
SCE1572_11480	82.97	107.78
SCE1572_8130	43.47	21.69
SCE1572_10902	35.11	30.73
SCE1572_11066	23.8	21.92
SCE1572_4808	24.82	143.36

SCE1572_3687	62.8	15.03
SCE1572_8334	0	0
SCE1572_3793	54.66	135.27
SCE1572_7593	46.63	47.01
SCE1572_6258	7.11	8.55
SCE1572_3426	69.84	22.99
SCE1572_1535	22.49	44.11
SCE1572_11356	31.59	66.52
SCE1572_8676	57.12	62.96
SCE1572_3822	20.99	44.91
SCE1572_10642	52.91	217.95
SCE1572_9052	55.69	56.77
SCE1572_3232	30.53	91.02
SCE1572_1468	0	0
SCE1572_921	29.72	15.23
SCE1572_4643	31.94	25.62
SCE1572_2850	44.83	206
SCE1572_2986	0	0
SCE1572_10005	12.2	12.58
SCE1572_4829	13.82	60.38
SCE1572_9428	152.45	257.65
SCE1572_5799	29.82	24.33
SCE1572_1698	24.32	175.58
SCE1572_3765	32.71	38.74
SCE1572_3587	310.28	277.23
SCE1572_9251	57.15	28.07
SCE1572_4028	84.81	158.98
SCE1572_8158	72.47	18.36
SCE1572_10453	22.8	15.55
SCE1572_7796	44.99	29.16
SCE1572_2602	67.25	21.02
SCE1572_4836	39.65	123.51
SCE1572_256	23.58	4.05
SCE1572_4420	0	0
SCE1572_11143	37.14	43.97
SCE1572_9987	78.79	25.63
SCE1572_6814	27.49	36.09
SCE1572_3945	396.81	795.06
SCE1572_8206	38.46	71.05
SCE1572_2963	65.37	812.15
SCE1572_7852	0	0
SCE1572_6158	12.42	10.73
SCE1572_1794	20.09	568.63
SCE1572_3577	39.68	81.25
SCE1572_2606	43.89	6.4
SCE1572_10793	8.64	5.67
SCE1572_3134	19.05	7.64
SCE1572_9397	28.23	56.29

SCE1572_1649	38.34	11.99
SCE1572_6373	46.92	30.3
SCE1572_1664	25.35	70.59
SCE1572_8714	92.37	150.1
SCE1572_7688	76.63	18.21
SCE1572_1053	41.17	85.11
SCE1572_7937	8.21	5.2
SCE1572_3841	70.11	34.8
SCE1572_9439	31.46	39.37
SCE1572_2082	36.86	40.32
SCE1572_10822	46.8	46.55
SCE1572_10537	0	0
SCE1572_11062	49.35	28.8
SCE1572_3984	31.15	96.23
SCE1572_6842	28.84	21.03
SCE1572_6559	50.01	74.26
SCE1572_2290	311.92	1957.1
SCE1572_11310	36.26	11.9
SCE1572_3002	7.26	3.88
SCE1572_1883	0	0
SCE1572_5379	42.47	14.23
SCE1572_4777	35.47	139.48
SCE1572_7459	172.01	420.41
SCE1572_5980	440.23	298.97
SCE1572_5763	0	0
SCE1572_11463	91.29	169.23
SCE1572_11573	0	0
SCE1572_325	21.34	5.41
SCE1572_7539	68.21	20.79
SCE1572_2445	20.05	7.62
SCE1572_3967	118.49	78.39
SCE1572_4559	11.58	34.21
SCE1572_1536	62.4	34.25
SCE1572_4636	111.72	22.41
SCE1572_7683	17.84	4.91
SCE1572_7144	48.84	105.31
SCE1572_9646	98.91	132.36
SCE1572_7783	0	0
SCE1572_5187	18.78	1332.13
SCE1572_2353	6.51	20.15
SCE1572_4242	18.01	3.61
SCE1572_1984	0	0
SCE1572_10408	38.97	56.27
SCE1572_9822	12.86	8.85
SCE1572_10685	12.68	9.46
SCE1572_11135	38.48	45.38
SCE1572_6530	25.77	33.76
SCE1572_8196	27.39	15.33

SCE1572_2648	49.15	24.06
SCE1572_2378	39.83	507.18
SCE1572_1402	55.96	17.68
SCE1572_1708	36.1	0
SCE1572_2171	111.94	58.48
SCE1572_7247	0	0
SCE1572_1496	20.13	9.69
SCE1572_7252	33.11	10.19
SCE1572_1147	52.64	69.72
SCE1572_2953	20.09	0
SCE1572_2204	29.13	205.51
SCE1572_8657	9.78	133.41
SCE1572_4171	52.51	60.25
SCE1572_5486	77.65	19.01
SCE1572_11122	37.24	10.73
SCE1572_2189	29.03	80.23
SCE1572_2835	12.23	0
SCE1572_2210	42.34	227.11
SCE1572_4396	15.29	21.47
SCE1572_1491	0	0
SCE1572_1497	32.78	13.12
SCE1572_11489	0	0
SCE1572_681	16.01	7.23
SCE1572_3297	8.94	6.59
SCE1572_4139	12.48	4.51
SCE1572_5158	7.84	0
SCE1572_9829	22.01	0
SCE1572_4903	46.72	70.53
SCE1572_3215	147.14	480.98
SCE1572_302	16.53	5.19
SCE1572_8791	80.27	400.7
SCE1572_4326	24.68	15.76
SCE1572_4271	30.44	25.78
SCE1572_735	79.37	40.41
SCE1572_6882	0	0
SCE1572_1955	15.08	18.15
SCE1572_3009	15.9	23.54
SCE1572_4038	48.83	58.35
SCE1572_5070	23.13	35.05
SCE1572_7619	69.98	338.13
SCE1572_5016	73.45	1054.07
SCE1572_9981	51.01	29.72
SCE1572_1464	45.53	19.57
SCE1572_5290	52.43	21.51
SCE1572_4668	7.98	4.8
SCE1572_2589	41.43	70.46
SCE1572_1295	65.84	37.53
SCE1572_10199	73.69	73.1

SCE1572_663	0	0
SCE1572_3352	21.09	8.92
SCE1572_1764	39.71	12.16
SCE1572_2106	87.86	241.13
SCE1572_11315	259.58	460.76
SCE1572_8867	47.15	24.5
SCE1572_10697	75.16	167.47
SCE1572_9838	0	0
SCE1572_787	66.41	280.74
SCE1572_1900	13.35	6.89
SCE1572_135	33.55	18.88
SCE1572_8516	83.27	13.24
SCE1572_11583	44.84	118.44
SCE1572_7865	28.34	17.05
SCE1572_1023	23.69	17.11
SCE1572_8097	25.08	15.32
SCE1572_11101	37.49	44.11
SCE1572_717	18.14	6.98
SCE1572_8392	0	0
SCE1572_7194	0	0
SCE1572_2780	49.17	6.58
SCE1572_10882	40.11	303.6
SCE1572_10324	21.1	32.65
SCE1572_5282	94.71	113.49
SCE1572_3645	209.13	424.24
SCE1572_1802	43.82	44.3
SCE1572_8877	3.09	0
SCE1572_2885	25.93	15.01
SCE1572_8306	124.05	8.29
SCE1572_6497	40.91	7.72
SCE1572_8173	22.26	5.79
SCE1572_4605	121.41	819.98
SCE1572_9266	26.87	47.79
SCE1572_1258	37.9	3.65
SCE1572_10336	11.84	9.5
SCE1572_3074	27.5	11.88
SCE1572_6306	16.3	9.51
SCE1572_3491	29.41	54.01
SCE1572_1517	3.3	0
SCE1572_3773	59.26	24.59
SCE1572_7948	128.14	207.18
SCE1572_440	173.68	56.55
SCE1572_9897	9.33	7.67
SCE1572_10446	11.81	7.48
SCE1572_10772	32.88	30.78
SCE1572_8068	42.78	11.8
SCE1572_7643	92.65	115.85
SCE1572_5561	47.15	23.29

SCE1572_11006	0	0
SCE1572_7005	10.78	3.24
SCE1572_8544	76.47	60.29
SCE1572_1041	57.61	24.52
SCE1572_6676	48.27	31.09
SCE1572_4226	29.96	48.56
SCE1572_11561	35.09	58.67
SCE1572_3595	20.29	2.76
SCE1572_9292	22.12	42.03
SCE1572_7915	2.53	0
SCE1572_4661	12.63	6.61
SCE1572_3103	20.04	8.39
SCE1572_2360	69.56	450.79
SCE1572_9812	52.02	17.54
SCE1572_2735	26.56	20.66
SCE1572_3709	0	0
SCE1572_7784	13.75	66.79
SCE1572_7103	0	0
SCE1572_10087	0	0
SCE1572_11021	34.77	26.34
SCE1572_9503	582.37	1943.03
SCE1572_3731	25.15	11.08
SCE1572_2327	63.75	34.27
SCE1572_7437	43.76	14.09
SCE1572_168	20.2	8.38
SCE1572_9867	37.38	75.81
SCE1572_6718	0	0
SCE1572_8838	0	0
SCE1572_6218	37.35	12.84
SCE1572_9323	26.86	42.4
SCE1572_8995	22.56	9.77
SCE1572_3897	27.21	42.63
SCE1572_6803	38.45	61.11
SCE1572_9394	11.74	2.42
SCE1572_8746	25.66	28.07
SCE1572_3062	18.53	4.05
SCE1572_230	109.04	47.49
SCE1572_10307	20.22	4.42
SCE1572_11418	69.19	62.95
SCE1572_4644	49.39	36.24
SCE1572_456	35.13	11.87
SCE1572_9569	0	0
SCE1572_8459	43.32	49.46
SCE1572_8365	39.2	17.8
SCE1572_4198	20.67	0
SCE1572_10020	46.39	19.64
SCE1572_9633	45.4	14.28
SCE1572_5580	31.66	32.08

SCE1572_5772	24.43	15.87
SCE1572_2488	4.27	0
SCE1572_10761	0	0
SCE1572_371	19.69	194.31
SCE1572_2300	26.87	139.73
SCE1572_8258	37.38	224.05
SCE1572_9448	42.05	28.51
SCE1572_4622	79.68	1877.88
SCE1572_6355	0	0
SCE1572_11495	120.27	22.81
SCE1572_937	13.46	10.23
SCE1572_11432	24.29	19.15
SCE1572_9012	32.8	28.47
SCE1572_2314	35.92	59.76
SCE1572_917	17.91	46.34
SCE1572_5479	45.24	21.54
SCE1572_4888	22.24	14.15
SCE1572_2591	40.73	23.97
SCE1572_3379	68.72	19.61
SCE1572_9513	18.21	16.31
SCE1572_384	0	0
SCE1572_10785	48.08	76.46
SCE1572_7800	52.27	101.65
SCE1572_10808	8.6	0
SCE1572_843	55.34	299.42
SCE1572_603	11.66	4.16
SCE1572_4960	27.09	47.87
SCE1572_1488	0	0
SCE1572_6395	0	0
SCE1572_9656	41.09	22.29
SCE1572_6000	37.9	125.2
SCE1572_8688	154.01	241.36
SCE1572_3370	17.44	271.27
SCE1572_11256	28.71	48.58
SCE1572_9716	20.37	187.91
SCE1572_414	43.22	31.37
SCE1572_6691	2.33	0
SCE1572_8628	47.46	132.02
SCE1572_8342	29.62	16.42
SCE1572_9709	51.73	83.49
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SCE1572_464	40.53	415.51
SCE1572_6209	27.69	4.57
SCE1572_7871	19.51	13.09
SCE1572_7765	35.91	32.01
SCE1572_5363	16.18	4.71
SCE1572_3073	16.7	6.43
SCE1572_55	73.31	23.11

SCE1572_7602	63.91	56.22
SCE1572_1427	3.45	0
SCE1572_5297	53.16	61.61
SCE1572_7922	33.33	19.57
SCE1572_6071	0	0
SCE1572_7480	45.41	66.99
SCE1572_3906	87.52	94.55
SCE1572_3487	27.17	6.99
SCE1572_260	57.68	14.93
SCE1572_10541	56.17	58.63
SCE1572_6202	28.99	19.77
SCE1572_5845	45.71	42.18
SCE1572_573	207.66	389.75
SCE1572_4478	26.63	32.04
SCE1572_8694	24.87	10.69
SCE1572_3873	12.71	10.67
SCE1572_10433	20.05	15.08
SCE1572_10972	22.25	93.91
SCE1572_4166	40.61	19.55
SCE1572_9271	28.43	45.62
SCE1572_1265	305.7	11633.01
SCE1572_10077	380.89	893.02
SCE1572_7523	34.41	15.31
SCE1572_9338	28.31	41.77
SCE1572_4282	31.04	2.87
SCE1572_2540	46.95	25.11
SCE1572_7904	14.52	5.18
SCE1572_8543	52.96	1087.57
SCE1572_6697	16.22	74.16
SCE1572_10313	48.29	22.98
SCE1572_9199	19.84	3.67
SCE1572_9670	43.79	154.11
SCE1572_7559	42.46	28.81
SCE1572_10994	37.25	53.48
SCE1572_6862	24.74	7.58
SCE1572_6976	42.94	13.54
SCE1572_10339	40.56	25.57
SCE1572_10725	17.1	7.55
SCE1572_2247	38.55	12.37
SCE1572_11279	31.22	128.8
SCE1572_5328	50.64	42.85
SCE1572_2	28.63	53.01
SCE1572_519	41.96	43.61
SCE1572_1306	220.18	8947.52
SCE1572_7465	125.05	207.41
SCE1572_468	22.44	71.66
SCE1572_1609	20.1	18.67
SCE1572_9821	65.51	27.97

SCE1572_5498	25.34	23.72
SCE1572_6235	30.96	32.12
SCE1572_2260	26.41	26.65
SCE1572_1004	18.65	18.51
SCE1572_10341	35.93	13.19
SCE1572_1645	63.69	116.67
SCE1572_10050	63.33	124.05
SCE1572_7411	40.08	29.36
SCE1572_2539	21.06	25.8
SCE1572_6203	31.98	160.57
SCE1572_4010	30.06	14.47
SCE1572_3249	43.2	61.99
SCE1572_8263	40.78	124.28
SCE1572_2188	184.21	334.23
SCE1572_10032	23.15	68.95
SCE1572_8102	15.39	77.34
SCE1572_118	184.04	849.19
SCE1572_7340	121.62	258.6
SCE1572_5461	24.59	5.92
SCE1572_8599	0	0
SCE1572_3172	20.73	11.75
SCE1572_624	3.3	0
SCE1572_4825	100.61	111.5
SCE1572_3475	19.06	46.89
SCE1572_10522	13.56	20.77
SCE1572_11397	6.19	0
SCE1572_4584	88.74	32.1
SCE1572_11138	9.6	0
SCE1572_11392	65.21	133.41
SCE1572_3206	72.41	60.66
SCE1572_9392	33.21	128.18
SCE1572_1963	45.43	17.8
SCE1572_10947	3.79	3.04
SCE1572_3482	39.63	9.98
SCE1572_1681	32.16	296.73
SCE1572_5780	35.77	51.4
SCE1572_11190	0	0
SCE1572_3801	107.83	70.25
SCE1572_8760	82.8	84.83
SCE1572_8159	5.88	0
SCE1572_7380	45.55	18.79
SCE1572_5032	79.32	791.51
SCE1572_10823	54.23	40.02
SCE1572_6825	0	0
SCE1572_9572	12.79	17.59
SCE1572_8610	48.65	27.32
SCE1572_3405	53.99	24.95
SCE1572_4358	54.62	18.93

SCE1572_5684	58.45	178.06
SCE1572_10774	130.94	497.62
SCE1572_8704	11.44	41.31
SCE1572_7976	19.85	5.08
SCE1572_10584	157.31	660.38
SCE1572_9865	27.12	25.54
SCE1572_10957	40.11	49.09
SCE1572_4495	35.07	24.62
SCE1572_227	13.09	6.52
SCE1572_5430	107.68	134.11
SCE1572_9630	44.22	15.21
SCE1572_4515	51.98	45.18
SCE1572_252	0	0
SCE1572_8174	10.53	2.53
SCE1572_6859	17.69	4.56
SCE1572_1943	41.95	24.33
SCE1572_220	42.96	93.66
SCE1572_2726	73.68	1023.15
SCE1572_6163	30.4	10.73
SCE1572_3593	37.15	15.99
SCE1572_7003	67.61	16.91
SCE1572_10015	26.62	67.59
SCE1572_3982	38.54	97.86
SCE1572_11475	32.76	19.36
SCE1572_1288	104.57	104.04
SCE1572_21	46.93	26.07
SCE1572_1941	104.6	17.8
SCE1572_7013	20.92	0
SCE1572_2053	61.81	58.11
SCE1572_6690	36.45	63.81
SCE1572_3830	30.07	144.76
SCE1572_2530	0	0
SCE1572_2268	21.9	10.67
SCE1572_3037	30.61	12.87
SCE1572_11593	69.05	514.87
SCE1572_9956	42.62	25.23
SCE1572_3194	51.06	63.79
SCE1572_10183	69.98	282.19
SCE1572_8730	78.97	54.3
SCE1572_10876	51.14	46.07
SCE1572_11164	21.16	28.29
SCE1572_5374	54.09	53.23
SCE1572_9574	15.96	3.84
SCE1572_10010	31.3	21.19
SCE1572_3524	27.97	23.28
SCE1572_3307	111.16	2481.68
SCE1572_6078	2.78	0
SCE1572_4347	51.94	20.27

SCE1572_2512	45.21	989.31
SCE1572_972	63.17	170.95
SCE1572_9232	3.49	0
SCE1572_3125	42.05	47.95
SCE1572_8216	25.57	13.03
SCE1572_6010	165.24	1795.91
SCE1572_7415	11.23	3.38
SCE1572_5530	99.89	52.13
SCE1572_3766	22.92	86.15
SCE1572_7079	20.22	236.33
SCE1572_8209	38.64	40.24
SCE1572_2389	13.71	23.29
SCE1572_5577	28.43	0
SCE1572_777	11.71	2.25
SCE1572_1733	70.87	31.16
SCE1572_7676	37.9	5.37
SCE1572_10756	28.2	23.52
SCE1572_9799	6.89	6.63
SCE1572_504	14.15	6.49
SCE1572_7307	17.63	3.39
SCE1572_7082	28.45	16.34
SCE1572_5123	23.92	7.43
SCE1572_1267	0	0
SCE1572_10049	55.33	48.83
SCE1572_958	19.43	22.81
SCE1572_6458	51.4	47.82
SCE1572_5518	15.23	5.72
SCE1572_8645	0	0
SCE1572_11151	28.21	19.8
SCE1572_4388	24.97	17.17
SCE1572_6092	41.4	4.8
SCE1572_1223	21.66	52.13
SCE1572_6553	0	0
SCE1572_10682	11.87	11.64
SCE1572_8229	9.71	5.56
SCE1572_5408	31.92	24.33
SCE1572_1913	0	0
SCE1572_8125	186.4	30.05
SCE1572_7878	29.16	14.04
SCE1572_6594	68.82	106.61
SCE1572_9252	5.95	3.58
SCE1572_2749	59.96	186.91
SCE1572_91	258.42	2622.77
SCE1572_1877	0	0
SCE1572_6268	63.22	34.64
SCE1572_6180	35.4	19.18
SCE1572_6816	64.16	20.59
SCE1572_9097	10	4.01

SCE1572_7253	44.9	15.94
SCE1572_5349	77.69	15.08
SCE1572_4650	58.77	152.15
SCE1572_2930	49.17	14.25
SCE1572_5639	11.46	5.3
SCE1572_10950	41.92	18.5
SCE1572_11018	0	0
SCE1572_3234	47.3	27.66
SCE1572_2475	50.13	42.45
SCE1572_9538	82.77	21.7
SCE1572_3782	22.03	51.25
SCE1572_8935	9.76	5.87
SCE1572_6317	0	0
SCE1572_6940	17.1	21.95
SCE1572_6017	86.3	296.43
SCE1572_7621	24.83	16.01
SCE1572_3418	32.07	26.51
SCE1572_6259	14.95	12.85
SCE1572_9375	0	0
SCE1572_6261	15.92	5.47
SCE1572_7243	38.42	62.6
SCE1572_1620	54.58	300.7
SCE1572_8809	81.85	12.92
SCE1572_2185	81.59	24.55
SCE1572_3692	24.41	23.73
SCE1572_10083	192.46	868.37
SCE1572_1676	20.33	46.52
SCE1572_10460	45.35	141.26
SCE1572_2939	17.84	54.64
SCE1572_9790	99.41	175.11
SCE1572_8013	23.4	64.9
SCE1572_714	30.86	3.23
SCE1572_6067	13.66	11.75
SCE1572_4003	53.7	144.45
SCE1572_9531	22.53	33.33
SCE1572_690	41.78	30.17
SCE1572_2639	67.02	31.32
SCE1572_5912	37.37	67.45
SCE1572_11580	36.98	1.78
SCE1572_8523	38.44	0
SCE1572_9794	20.12	22.46
SCE1572_6823	55.86	180.54
SCE1572_2058	6.15	0
SCE1572_9108	47.51	65.69
SCE1572_4435	24.51	39.33
SCE1572_3933	103.28	262.14
SCE1572_9616	2.92	0
SCE1572_1939	28.08	96.65

SCE1572_705	20.57	21.3
SCE1572_7734	16.58	0
SCE1572_5784	56.48	145.97
SCE1572_4436	34.47	25.31
SCE1572_4945	24.11	56.45
SCE1572_3995	17.11	16.84
SCE1572_11587	1.97	4.75
SCE1572_9926	78.39	779.49
SCE1572_5903	17.19	13.79
SCE1572_5271	24.95	13.86
SCE1572_9802	23.42	20.03
SCE1572_7705	0	0
SCE1572_1543	539.61	367.8
SCE1572_8349	77.2	6.72
SCE1572_10017	66.61	282.37
SCE1572_3918	25.91	73.91
SCE1572_1634	129.32	692.95
SCE1572_2580	0	0
SCE1572_6482	79.17	65.5
SCE1572_8895	44.21	48.36
SCE1572_6982	12.43	0
SCE1572_73	34.21	142.09
SCE1572_11338	70.04	8.54
SCE1572_6750	22.04	16.97
SCE1572_1560	2.49	0
SCE1572_1546	64.88	31.01
SCE1572_2873	90.31	65.81
SCE1572_9756	13.78	8.29
SCE1572_3753	78.19	292.92
SCE1572_550	0	0
SCE1572_11365	15.79	7.6
SCE1572_9246	0	0
SCE1572_11268	40.64	47.98
SCE1572_851	60.74	183.33
SCE1572_3635	27.39	16.48
SCE1572_9	26.32	33.05
SCE1572_6505	36.21	30.22
SCE1572_4681	21.31	13.81
SCE1572_5572	28.03	14.47
SCE1572_1376	26.83	15.31
SCE1572_6791	6.67	6.89
SCE1572_11514	53.27	36.99
SCE1572_6955	47.77	12.35
SCE1572_1931	46.31	16.46
SCE1572_10042	474.9	1500.24
SCE1572_1162	38.3	12.8
SCE1572_5732	65.16	208.09
SCE1572_10988	59.85	787.46

SCE1572_5953	49.51	31.64
SCE1572_7719	65.32	28.85
SCE1572_430	56.43	39.82
SCE1572_11036	13.38	136.85
SCE1572_10037	21.23	45.25
SCE1572_10631	36.03	0
SCE1572_1687	38.61	13.6
SCE1572_1714	70.05	57.74
SCE1572_5308	31.15	44.99
SCE1572_8874	110.44	25.95
SCE1572_5211	47.63	68.97
SCE1572_9383	592.45	2352.03
SCE1572_1576	35.96	16.95
SCE1572_11557	35.02	20.9
SCE1572_8435	70.97	3.88
SCE1572_6888	39.76	11.48
SCE1572_11205	3.74	13.52
SCE1572_1344	11.13	6.35
SCE1572_3721	2.57	0
SCE1572_10449	20.57	97
SCE1572_368	45.46	50.97
SCE1572_9970	8.58	4.92
SCE1572_6990	2.3	0
SCE1572_1159	44.13	18.75
SCE1572_7974	29.97	28.85
SCE1572_5058	22.66	9.99
SCE1572_2346	37.9	687.41
SCE1572_10367	16.51	8.64
SCE1572_276	43.49	22.63
SCE1572_9320	34.43	45.77
SCE1572_7537	7.46	1.99
SCE1572_45	27.06	120.86
SCE1572_1840	20.67	42.39
SCE1572_1360	62.14	194.21
SCE1572_9698	21.75	8.47
SCE1572_8950	59.03	24.53
SCE1572_10700	0	0
SCE1572_2362	36.63	58.57
SCE1572_11438	52.54	33.24
SCE1572_5022	50.7	242.89
SCE1572_3331	33.69	337.89
SCE1572_4207	49.4	135.31
SCE1572_10602	75.31	36.97
SCE1572_183	149.84	366.14
SCE1572_160	68.57	37.7
SCE1572_11057	35.08	18.1
SCE1572_6374	40.16	11.24
SCE1572_6914	14.93	11.06

SCE1572_5562	94.99	48.36
SCE1572_7485	105.29	284.5
SCE1572_7450	9.86	50.44
SCE1572_6892	36.27	37.43
SCE1572_6522	72.27	122.78
SCE1572_6422	35.21	44.73
SCE1572_9611	53.44	8.97
SCE1572_4264	31.33	10.56
SCE1572_5167	0	0
SCE1572_6675	45.31	16.78
SCE1572_10135	19.87	16.36
SCE1572_1245	6.04	4.85
SCE1572_8829	0	0
SCE1572_7196	2.68	0
SCE1572_8323	36.03	42.55
SCE1572_7810	113.28	209.31
SCE1572_5160	28.11	20.5
SCE1572_3547	0	0
SCE1572_4921	7.07	9.28
SCE1572_9327	265.63	580.96
SCE1572_4692	19.18	18.65
SCE1572_4373	23.94	25.99
SCE1572_5611	6.67	4.59
SCE1572_4064	0	0
SCE1572_7806	38.14	34.43
SCE1572_4289	43.62	66.58
SCE1572_2292	102.28	124.54
SCE1572_9764	35.43	33.96
SCE1572_443	29.82	8.09
SCE1572_10656	74.74	143.06
SCE1572_3155	91.57	184.27
SCE1572_2382	9.34	3.46
SCE1572_4908	59.65	105.12
SCE1572_1213	0	0
SCE1572_6733	37.9	231.59
SCE1572_6427	12.26	10.73
SCE1572_5433	47.38	10.53
SCE1572_6997	23.23	11.77
SCE1572_5086	163.28	50.53
SCE1572_8419	8.92	0
SCE1572_5286	89.09	35.6
SCE1572_1320	15.09	36.33
SCE1572_812	0	0
SCE1572_7072	58.44	87.61
SCE1572_3256	31.14	16.29
SCE1572_4688	0	0
SCE1572_6297	12.2	88.08
SCE1572_11287	80.79	466.14

SCE1572_10411	27.73	28.93
SCE1572_10206	70.75	31.47
SCE1572_5134	20.22	43.79
SCE1572_8605	75.42	102.1
SCE1572_6363	39.7	333.07
SCE1572_10269	11.53	6.94
SCE1572_3519	15.72	11.13
SCE1572_2654	24.26	9.73
SCE1572_429	41.11	66.35
SCE1572_2758	61.09	183.23
SCE1572_653	527.66	1742.14
SCE1572_6600	36.93	33.99
SCE1572_9999	24.5	238.09
SCE1572_8006	5.14	0
SCE1572_7667	190.47	40.24
SCE1572_786	12.79	4.4
SCE1572_9967	36.44	24.19
SCE1572_403	19.61	34.47
SCE1572_6439	26.8	20.37
SCE1572_1974	0	0.69
SCE1572_8924	0	0
SCE1572_7387	54.4	98.2
SCE1572_10628	22.8	67.84
SCE1572_8908	22.22	12.58
SCE1572_8469	136.63	163.37
SCE1572_448	20.14	21.15
SCE1572_10488	97.42	1263.39
SCE1572_10108	23.04	68.32
SCE1572_4147	23.18	1385.31
SCE1572_5939	32.53	8.41
SCE1572_10192	17.58	5.29
SCE1572_1489	36.87	10
SCE1572_10097	18.08	118.85
SCE1572_7571	26.26	101.05
SCE1572_943	112.48	34.09
SCE1572_9807	297.4	1178.98
SCE1572_1926	100.79	762.23
SCE1572_113	35.65	28.29
SCE1572_8109	45.05	26.44
SCE1572_3288	31.93	72.98
SCE1572_4228	16.41	9.41
SCE1572_6729	8.42	28.38
SCE1572_637	14.19	34.16
SCE1572_6713	28.14	48.38
SCE1572_5767	112.2	681.88
SCE1572_8959	0	0
SCE1572_2164	6.45	3.88
SCE1572_2795	44.38	62.3

SCE1572_955	0	0
SCE1572_11505	191.13	1191.82
SCE1572_7290	13.54	6.52
SCE1572_6020	118.79	160.91
SCE1572_8273	24.7	43.05
SCE1572_3459	3913.89	1122.72
SCE1572_932	0	0
SCE1572_3837	52.12	21.99
SCE1572_11297	55.55	77.55
SCE1572_3979	32.74	47.69
SCE1572_10090	49.26	98.68
SCE1572_10503	9.83	28.72
SCE1572_377	85.7	33.28
SCE1572_9898	36.62	8.81
SCE1572_3586	28.04	22.5
SCE1572_457	13.9	17.53
SCE1572_10126	4.15	0
SCE1572_8430	51.93	98.53
SCE1572_10044	675.22	2732.67
SCE1572_4059	11.08	12.63
SCE1572_10668	0	0
SCE1572_9110	16.36	14.6
SCE1572_1096	52.89	99.72
SCE1572_7220	45.08	1134.22
SCE1572_4094	10.06	5.85
SCE1572_8491	24.62	19.96
SCE1572_343	47.11	49.45
SCE1572_10616	34.99	53.02
SCE1572_7651	76.85	24.99
SCE1572_5945	24.67	18.1
SCE1572_7779	14.52	7.76
SCE1572_3016	1.7	0
SCE1572_9404	22.89	216.89
SCE1572_7227	117.63	3768.77
SCE1572_5540	15.11	34.03
SCE1572_4417	15.55	12.48
SCE1572_9700	44.43	49.8
SCE1572_5184	17.7	1257.56
SCE1572_1024	37.49	10.03
SCE1572_1349	18.72	279.32
SCE1572_5547	39.92	11.24
SCE1572_3094	23.04	48.8
SCE1572_11012	51.74	62.81
SCE1572_1046	20.9	14.49
SCE1572_6384	34.37	27.98
SCE1572_8697	2.57	0
SCE1572_3027	54.06	106.19
SCE1572_9845	66.92	12.58

SCE1572_3384	66.02	270.65
SCE1572_968	99.52	510.89
SCE1572_2035	0	0
SCE1572_4563	7.22	13.03
SCE1572_10852	84.28	52.92
SCE1572_8083	13.99	9.43
SCE1572_1131	14.8	3.69
SCE1572_7891	98.96	3730.07
SCE1572_524	16.8	21.28
SCE1572_4716	37.37	17.99
SCE1572_3503	23.59	38.91
SCE1572_11124	25.63	3.43
SCE1572_7906	50.54	22.22
SCE1572_8316	49.22	65.92
SCE1572_4073	51.07	552.8
SCE1572_4718	30.18	22.48
SCE1572_6850	10.21	7.56
SCE1572_1581	29.92	38.41
SCE1572_9346	46.35	56.57
SCE1572_8480	24.38	90.02
SCE1572_1015	13.8	5.07
SCE1572_10326	31.73	11.32
SCE1572_2752	33.33	65.57
SCE1572_5962	0	0
SCE1572_3758	51.8	26.32
SCE1572_8066	154.01	56.69
SCE1572_6285	43.22	48.02
SCE1572_2456	431.95	357.47
SCE1572_1150	121.29	1426.57
SCE1572_3662	20.14	0.95
SCE1572_1185	41.65	9.01
SCE1572_740	8.86	2.37
SCE1572_3970	31.22	76.66
SCE1572_10440	52.64	5.07
SCE1572_7159	37.17	15.62
SCE1572_8246	36.24	89.51
SCE1572_706	10.42	2.28
SCE1572_3109	70.38	16.73
SCE1572_7123	11.54	3.97
SCE1572_5650	2.92	0
SCE1572_4647	0	0
SCE1572_10110	35.67	118.6
SCE1572_1507	67.23	24.77
SCE1572_750	27.6	9.02
SCE1572_10167	21.35	28.98
SCE1572_7564	22.79	7.62
SCE1572_5335	38.39	83.7
SCE1572_1433	0	0

SCE1572_8147	39.55	18.63
SCE1572_4995	35.89	72.28
SCE1572_3262	11.66	15.49
SCE1572_7282	45.6	31.55
SCE1572_8653	22.09	16.31
SCE1572_3610	0	0
SCE1572_7496	0	0
SCE1572_9946	34.99	0
SCE1572_2991	30.36	22.14
SCE1572_5226	24.43	59.81
SCE1572_5383	45.2	16.62
SCE1572_6686	9.48	9.12
SCE1572_4050	74.9	195.29
SCE1572_7446	21.16	0
SCE1572_4363	86.45	19.21
SCE1572_3658	8.6	2.3
SCE1572_9942	36.74	20.15
SCE1572_7324	0	0
SCE1572_152	36.22	38.41
SCE1572_7354	51.87	15.14
SCE1572_6807	21.57	14.83
SCE1572_8815	4.46	0
SCE1572_3429	25.4	5.15
SCE1572_5303	14.94	9.32
SCE1572_7187	36.04	24.14
SCE1572_3437	25.99	9.12
SCE1572_7273	1.78	0
SCE1572_5569	40.86	29.62
SCE1572_9904	24.9	19.39
SCE1572_858	806.81	26391.7
SCE1572_4985	9.02	0
SCE1572_2786	16.93	59.28
SCE1572_4722	52.52	122.01
SCE1572_6654	84.9	390.17
SCE1572_11145	70.61	91.23
SCE1572_8386	86.21	40.16
SCE1572_792	138.88	205.46
SCE1572_1408	15.29	1.99
SCE1572_10235	32.88	16.96
SCE1572_6625	22.61	25.61
SCE1572_5746	24.78	51.83
SCE1572_4134	64.49	21.89
SCE1572_8009	364.94	21246.12
SCE1572_2951	0	0
SCE1572_4702	101.27	49.73
SCE1572_1986	45.44	628.86
SCE1572_9084	20.57	47.38
SCE1572_5412	14.31	8.79

SCE1572_7403	67.76	2009.33
SCE1572_3250	178.09	379.4
SCE1572_1018	26.86	139.73
SCE1572_9494	649.64	725.01
SCE1572_8477	61.51	29.39
SCE1572_683	49.31	35.6
SCE1572_584	26.47	126.49
SCE1572_5444	38.21	8.76
SCE1572_5189	16.51	261.95
SCE1572_514	69.92	56.72
SCE1572_1319	21.79	8.36
SCE1572_5132	42.94	85.04
SCE1572_8640	42.94	216.91
SCE1572_5659	38.41	46.98
SCE1572_1418	68.68	96.69
SCE1572_2496	17.07	4.83
SCE1572_4704	85.66	22.68
SCE1572_1833	38.32	28.62
SCE1572_6337	45.33	68.97
SCE1572_9743	153.51	1043.45
SCE1572_3026	17.68	22.75
SCE1572_6755	55.02	35.32
SCE1572_10679	182.32	954.27
SCE1572_7993	21.97	7.05
SCE1572_5006	76.64	496.25
SCE1572_11457	122.63	137.47
SCE1572_1746	58.2	36.67
SCE1572_5712	26.76	4.77
SCE1572_6899	25.89	126.09
SCE1572_8962	31.1	22.46
SCE1572_8150	27.96	8.92
SCE1572_5320	34.36	90.57
SCE1572_10767	31.07	13.82
SCE1572_8062	0	0
SCE1572_6273	13.88	21.62
SCE1572_999	41.84	37.07
SCE1572_10862	20.55	128.42
SCE1572_749	64.03	88.82
SCE1572_1351	61.16	105.15
SCE1572_2846	27.85	7.45
SCE1572_8725	48.7	18.43
SCE1572_9331	288.61	2595.21
SCE1572_10987	18.32	106.01
SCE1572_11170	62.46	55.08
SCE1572_11556	1.56	0
SCE1572_3490	19.14	56.69
SCE1572_7135	24.09	19.33
SCE1572_9928	22.94	43.21

SCE1572_8120	55.13	15.31
SCE1572_10546	4.74	3.8
SCE1572_2013	60.23	17.23
SCE1572_5157	10.04	4.16
SCE1572_8780	54.55	75.3
SCE1572_11569	17.78	168.95
SCE1572_10981	54.54	228.23
SCE1572_7703	16.02	63.79
SCE1572_1859	26.37	3.97
SCE1572_1195	2.71	0
SCE1572_3925	103.44	107.4
SCE1572_2252	42.36	41.89
SCE1572_8033	0	0
SCE1572_7034	85.34	83.75
SCE1572_81	5.05	8.11
SCE1572_11535	46.45	52.03
SCE1572_10674	62.64	178.94
SCE1572_4788	68.1	72.16
SCE1572_9349	135.18	402.29
SCE1572_8114	42.25	17.95
SCE1572_4406	71.52	18.36
SCE1572_8856	27.43	113.69
SCE1572_4022	19.73	58.33
SCE1572_1176	51.07	39.37
SCE1572_11389	218.67	377.66
SCE1572_8915	23.94	543.27
SCE1572_5276	16.85	0
SCE1572_1906	21.17	153.97
SCE1572_835	42.34	13.15
SCE1572_3214	0	0
SCE1572_5491	37.11	24.25
SCE1572_6635	3.05	0
SCE1572_7125	50.79	40.75
SCE1572_10891	67.11	129.62
SCE1572_10719	30.98	14.91
SCE1572_3010	18.05	5.21
SCE1572_8224	12.06	8.29
SCE1572_6715	21.45	12.91
SCE1572_2550	55.24	31.12
SCE1572_733	29.06	11.08
SCE1572_9315	14.78	13.24
SCE1572_8744	56.31	29.75
SCE1572_5385	76.73	50.4
SCE1572_509	35.5	19.1
SCE1572_3456	57.02	14.89
SCE1572_1800	7.88	9.48
SCE1572_6576	30.02	9.63
SCE1572_7028	62.57	101.37

SCE1572_632	117.98	344.4
SCE1572_4638	10.61	2.43
SCE1572_4759	70.97	45.29
SCE1572_7682	87.14	14.68
SCE1572_8952	20.78	9.09
SCE1572_2567	130.01	262.67
SCE1572_2702	46.99	75.13
SCE1572_6540	10.93	0
SCE1572_4850	78.87	66.35
SCE1572_9255	17.93	11.26
SCE1572_4899	13.63	10.93
SCE1572_10777	183.81	200.93
SCE1572_2644	28.48	22.23
SCE1572_8390	2.92	0
SCE1572_3735	55.39	20.44
SCE1572_7059	32.7	50.92
SCE1572_2153	38.53	50.4
SCE1572_1115	15.96	19.21
SCE1572_3048	7.44	1.05
SCE1572_3643	0	0
SCE1572_3359	51.63	23.59
SCE1572_178	33.86	18.52
SCE1572_2823	20.15	7.27
SCE1572_5484	24.29	4.38
SCE1572_6085	35.76	35.57
SCE1572_9940	0	0
SCE1572_10112	75.81	0
SCE1572_5582	19.56	11.77
SCE1572_9523	82.47	174.44
SCE1572_3960	60.34	57.72
SCE1572_9581	26.2	41.08
SCE1572_2250	152.16	147.3
SCE1572_2043	22.02	278.61
SCE1572_5668	4.71	0
SCE1572_7826	39.53	44.25
SCE1572_4890	275.46	450.47
SCE1572_8711	65.56	39.45
SCE1572_4177	67.25	21.02
SCE1572_11518	59.31	29.79
SCE1572_8047	34.73	12.23
SCE1572_7770	21.89	25.79
SCE1572_11022	41.14	30.86
SCE1572_1446	33.51	12.1
SCE1572_8326	39.78	39.54
SCE1572_9139	0	0
SCE1572_728	28	81.9
SCE1572_5088	35.41	58.75
SCE1572_9365	58.05	76.29

SCE1572_2326	11.9	52.31
SCE1572_4097	24.26	10.95
SCE1572_8111	49.62	13.72
SCE1572_6064	35.75	11.15
SCE1572_8040	72.84	44.85
SCE1572_10573	27.99	39.3
SCE1572_10146	160.67	192.97
SCE1572_6532	37.62	14.78
SCE1572_1908	33.82	54.26
SCE1572_8375	28.78	143.49
SCE1572_5516	2.71	0
SCE1572_9300	78.41	161.43
SCE1572_10152	289.85	1348.78
SCE1572_11572	46.34	195.19
SCE1572_101	6.59	0
SCE1572_674	215.97	435.81
SCE1572_4503	28.61	19.97
SCE1572_9583	28.61	17.22
SCE1572_8865	92.09	97.39
SCE1572_6494	9.36	9.01
SCE1572_11376	40.65	54.11
SCE1572_3004	7.08	0
SCE1572_454	34.94	14.92
SCE1572_1305	31.37	15.1
SCE1572_5214	94.46	42.03
SCE1572_5564	11.84	0
SCE1572_9065	41.86	14.86
SCE1572_6466	27.63	3.24
SCE1572_9551	42.55	23.08
SCE1572_10420	78.32	132.49
SCE1572_10695	21.42	11.9
SCE1572_2212	12.94	22.25
SCE1572_1882	33.94	16.08
SCE1572_4901	31.35	18.26
SCE1572_1033	42.78	19.55
SCE1572_10275	30.32	94.04
SCE1572_8153	74.43	13.27
SCE1572_5042	24.3	57.27
SCE1572_8372	78.8	91.23
SCE1572_3142	33.31	29.46
SCE1572_2628	49.65	17.07
SCE1572_4458	18.31	16.28
SCE1572_5435	31.45	14.42
SCE1572_10609	42.79	237.75
SCE1572_6443	2.92	10.53
SCE1572_4136	44.16	15.34
SCE1572_6513	0	0
SCE1572_1087	11.23	22.53

SCE1572_2836	14.6	40.55
SCE1572_9197	100.21	54.82
SCE1572_2952	13.46	4.05
SCE1572_4575	37.36	12.63
SCE1572_5159	38.51	44.41
SCE1572_1862	45.76	10.3
SCE1572_6702	84.1	20.44
SCE1572_4547	87.24	16.09
SCE1572_31	11.47	16.87
SCE1572_4272	39.67	74.69
SCE1572_4076	21.23	0
SCE1572_5076	35.59	147.55
SCE1572_10022	15.15	4.51
SCE1572_7642	19.2	9.43
SCE1572_1208	37.83	24.14
SCE1572_3899	65.61	26.44
SCE1572_2429	106.24	157.16
SCE1572_4752	16.39	59.18
SCE1572_5694	19.74	3.59
SCE1572_8514	51.85	0
SCE1572_1533	5.19	8.03
SCE1572_9649	39.31	7.72
SCE1572_4663	0	0
SCE1572_11423	33.86	14.82
SCE1572_5169	29.26	0
SCE1572_7830	82.43	60.23
SCE1572_4173	46.52	54
SCE1572_10498	19.87	28.52
SCE1572_11107	42.03	76.43
SCE1572_6308	50.36	20.2
SCE1572_5529	29.86	29.55
SCE1572_1490	30.63	7.37
SCE1572_8820	30.31	13.15
SCE1572_5876	38.14	334.32
SCE1572_1384	78.57	28.41
SCE1572_2306	48.93	149.29
SCE1572_3060	51.06	7.56
SCE1572_3707	21.38	28.07
SCE1572_8578	86.21	40.16
SCE1572_9777	36.8	687.33
SCE1572_8475	315.38	255.98
SCE1572_3445	79.39	51.29
SCE1572_8941	39.34	91.23
SCE1572_7368	326.84	2636.53
SCE1572_398	13.24	3.98
SCE1572_7049	14.42	4.79
SCE1572_93	83.07	41.52
SCE1572_10027	32.69	26.68

SCE1572_8922	35.22	57.6
SCE1572_6539	49.05	7.16
SCE1572_1126	0	0
SCE1572_7913	23.69	10.69
SCE1572_10880	83.47	406.31
SCE1572_9884	27.97	19.12
SCE1572_9038	28.97	48.81
SCE1572_7119	35.53	74.12
SCE1572_3229	252.69	141.5
SCE1572_8354	55.54	10.84
SCE1572_4087	14.53	6.56
SCE1572_10250	49.07	13.22
SCE1572_4244	80.03	915.69
SCE1572_4394	37.1	13.23
SCE1572_5926	133.97	19.6
SCE1572_5067	137.66	355.65
SCE1572_8187	4.74	2.28
SCE1572_688	96.51	249.6
SCE1572_10796	0	0
SCE1572_3157	28.06	36.93
SCE1572_8451	40.31	346.1
SCE1572_6025	31.19	37.53
SCE1572_10699	51.1	1273.17
SCE1572_4538	75.81	26.53
SCE1572_15	24.32	79.18
SCE1572_7431	33.69	6.54
SCE1572_9322	111.95	95.47
SCE1572_6155	33.61	33.26
SCE1572_6389	29.46	40.34
SCE1572_9422	152.89	466.12
SCE1572_9186	117.21	43.16
SCE1572_7661	46.97	8.6
SCE1572_5741	32.26	19.97
SCE1572_541	100.86	51.68
SCE1572_3420	35.18	146.9
SCE1572_7639	27.63	40.75
SCE1572_1813	16.75	8.06
SCE1572_1354	23.66	4.81
SCE1572_4328	20.45	8.56
SCE1572_9329	0	0
SCE1572_11254	29.61	64.94
SCE1572_8253	14.28	13.09
SCE1572_6677	44.7	68.85
SCE1572_11228	19.06	207.39
SCE1572_2088	52.88	35.8
SCE1572_9813	22.68	11.49
SCE1572_7097	27.61	20.04
SCE1572_4524	64.11	14.6

SCE1572_5101	35.95	23.51
SCE1572_3526	18.05	2111.34
SCE1572_9225	2.61	0
SCE1572_7594	23.58	32.44
SCE1572_10849	40.84	16.73
SCE1572_10428	43.04	20.01
SCE1572_8440	177.4	233.35
SCE1572_7744	35.23	1162.87
SCE1572_5361	44.29	139.41
SCE1572_6376	23.29	1.25
SCE1572_5911	35.4	60.28
SCE1572_9745	20.75	15.37
SCE1572_9045	60.31	25.65
SCE1572_5254	15.54	3.68
SCE1572_357	57.91	64.44
SCE1572_1660	117.82	418.38
SCE1572_2765	52.5	70.72
SCE1572_8756	162.83	74.03
SCE1572_6849	12.24	1.69
SCE1572_1254	55.35	23.17
SCE1572_2789	37.13	37.24
SCE1572_3681	7.32	5.29
SCE1572_232	6.79	0
SCE1572_7052	19.71	0
SCE1572_6722	56.99	191.52
SCE1572_5056	37.15	28.79
SCE1572_4557	26.82	12.16
SCE1572_2348	22.84	8.19
SCE1572_6012	36.74	76.12
SCE1572_3808	43.54	107.55
SCE1572_9770	43.32	23.97
SCE1572_8137	35.64	15.99
SCE1572_3140	72.1	136.5
SCE1572_4735	174.58	8302.36
SCE1572_3342	167.91	416.63
SCE1572_10921	45.84	50.92
SCE1572_3186	51.73	157.42
SCE1572_6080	57.48	31.76
SCE1572_4526	34.39	17.56
SCE1572_11098	39.68	39.97
SCE1572_5904	20.47	23.72
SCE1572_4332	18.23	20.79
SCE1572_11272	17.65	11.58
SCE1572_8449	24.03	39.88
SCE1572_1326	2.33	5.61
SCE1572_1232	28.61	13.77
SCE1572_239	14.21	0
SCE1572_5657	13.74	23.7

SCE1572_411	39.51	21.52
SCE1572_3392	161.48	224.74
SCE1572_5959	67.69	59.02
SCE1572_11441	24.82	38.75
SCE1572_6802	178.17	805.1
SCE1572_5120	107.91	1085.06
SCE1572_7817	33.6	62.2
SCE1572_9418	281.42	3254.31
SCE1572_9854	149.3	51.79
SCE1572_8203	19.25	0
SCE1572_3468	21.06	3.38
SCE1572_8559	27.61	28.48
SCE1572_1164	119.25	192.71
SCE1572_6170	20.72	68
SCE1572_961	135.09	481.88
SCE1572_895	10.71	2.06
SCE1572_175	20.15	2.42
SCE1572_6680	26.58	26.17
SCE1572_4470	22.9	5.7
SCE1572_10645	64.84	92.07
SCE1572_9427	15.72	0
SCE1572_6661	32.17	43.4
SCE1572_65	31.1	220.56
SCE1572_2686	0	0
SCE1572_5161	505.39	5279.97
SCE1572_5855	50	27.18
SCE1572_7894	1682.69	0
SCE1572_7953	20.97	11.54
SCE1572_11403	19.56	35.32
SCE1572_9147	25.49	157.29
SCE1572_10474	29.71	36.76
SCE1572_4446	0	0
SCE1572_3969	64.86	266.6
SCE1572_536	163.54	413.12
SCE1572_601	53.44	83.49
SCE1572_11185	30.96	14.25
SCE1572_1291	45.39	32.54
SCE1572_2988	17.55	13.52
SCE1572_10332	95.91	27.83
SCE1572_8078	0	0
SCE1572_2507	0	0
SCE1572_8303	18.02	76.56
SCE1572_1391	47.41	60.62
SCE1572_923	91.65	159.58
SCE1572_10749	62.9	589.49
SCE1572_1694	44.46	14.94
SCE1572_1654	23.85	12.94
SCE1572_6840	18.57	50.27

SCE1572_8587	0	0
SCE1572_675	79.01	10.28
SCE1572_5761	44.54	31.4
SCE1572_10351	48.16	34.29
SCE1572_4223	53.83	69.1
SCE1572_8409	0	0
SCE1572_4423	1.33	0
SCE1572_7180	15.64	5.79
SCE1572_417	8.03	4.29
SCE1572_7918	43.71	15.51
SCE1572_11215	31.79	14.8
SCE1572_11318	24.83	32.6
SCE1572_3584	6	0
SCE1572_10481	62.36	64.73
SCE1572_2388	0	0
SCE1572_7007	0	0
SCE1572_11067	33.17	45.62
SCE1572_9549	47.97	22.81
SCE1572_11559	41.58	21.39
SCE1572_8132	14.49	5.68
SCE1572_1667	16.45	22.38
SCE1572_4419	47.27	14.16
SCE1572_7044	943.07	7059.24
SCE1572_423	44.45	177.68
SCE1572_8841	35.04	18.25
SCE1572_11177	33.99	67.53
SCE1572_2400	74.32	757.67
SCE1572_8425	23.84	158.36
SCE1572_1148	16.99	40.88
SCE1572_259	15.55	12.48
SCE1572_2520	76.3	36.73
SCE1572_5482	59.26	84.08
SCE1572_2783	24.79	48.2
SCE1572_10840	34.51	71.2
SCE1572_11115	61.9	64.45
SCE1572_809	74.51	168.43
SCE1572_7647	83.26	24.95
SCE1572_5969	42.54	15.4
SCE1572_472	44.66	251.77
SCE1572_2447	49.44	15.87
SCE1572_6153	0	0
SCE1572_2965	27.24	6.19
SCE1572_983	66.89	269.46
SCE1572_7346	0	0
SCE1572_4205	34.36	64.32
SCE1572_1421	18.72	6.19
SCE1572_5884	43.75	43.15
SCE1572_6571	26.43	7.49

SCE1572_11465	34.08	20.37
SCE1572_10155	13.74	10.67
SCE1572_7777	18.14	15.71
SCE1572_2969	52.28	6
SCE1572_5358	45.94	137.54
SCE1572_5805	53.2	685.03
SCE1572_9565	41.4	19.36
SCE1572_7795	19.37	23.87
SCE1572_4598	52.25	142.14
SCE1572_8170	46.65	9.36
SCE1572_3868	116.29	55.68
SCE1572_11348	33.3	42.19
SCE1572_9601	91.3	254.26
SCE1572_5754	26.94	54.67
SCE1572_3267	28.63	94
SCE1572_6382	18.36	9.07
SCE1572_3430	51.08	148.31
SCE1572_7457	9.2	1.17
SCE1572_1275	15.49	29.3
SCE1572_3567	32.02	7.93
SCE1572_3761	77.04	45.08
SCE1572_8232	19.16	29.07
SCE1572_5670	168.62	78.38
SCE1572_9678	26.44	12.99
SCE1572_7460	21.49	19.57
SCE1572_4870	10.83	98.25
SCE1572_11355	46.11	27.99
SCE1572_4510	97.99	97.05
SCE1572_599	26.14	16.36
SCE1572_11585	18.66	0
SCE1572_5933	19.49	7.9
SCE1572_5895	104.41	20.99
SCE1572_4020	29.42	72.62
SCE1572_7021	48.2	18.91
SCE1572_6036	16.85	0
SCE1572_3325	69.77	199.5
SCE1572_1241	17.81	22.08
SCE1572_3080	43.42	223.93
SCE1572_1009	22.85	13.57
SCE1572_2993	124.86	123.43
SCE1572_2922	44.89	16.81
SCE1572_9354	93.65	98.74
SCE1572_629	42.95	129.4
SCE1572_4365	71.89	18.04
SCE1572_6283	11.2	27.92
SCE1572_7532	7.59	4.81
SCE1572_4124	38.47	32.68
SCE1572_4794	327.2	728.67

SCE1572_5575	11.66	21.05
SCE1572_5649	120.78	157.44
SCE1572_6271	5.35	15.03
SCE1572_7174	0	0
SCE1572_7110	0	0
SCE1572_3535	29.24	7.58
SCE1572_8335	0	0
SCE1572_11595	362.1	1311.64
SCE1572_10281	76.14	364.92
SCE1572_5840	30.82	2.97
SCE1572_163	37.18	19.35
SCE1572_2869	13.69	68.42
SCE1572_7712	15.05	18.56
SCE1572_6404	8.32	0
SCE1572_821	30.32	12.16
SCE1572_4386	22.48	8.49
SCE1572_6800	233.94	467.08
SCE1572_3900	71.97	95.37
SCE1572_7363	89.29	80.67
SCE1572_192	3.61	0
SCE1572_7756	16.06	6.19
SCE1572_2778	23.68	32.99
SCE1572_2434	43.19	32.79
SCE1572_2662	42.18	170.11
SCE1572_4053	42.94	177.62
SCE1572_622	0	0
SCE1572_2852	0	0
SCE1572_9130	17.8	8.29
SCE1572_6059	102.76	874.44
SCE1572_1602	19.03	11.45
SCE1572_8024	11.34	10.23
SCE1572_5686	34.91	64.82
SCE1572_4832	0	0
SCE1572_2919	34.39	32.6
SCE1572_10578	0	0
SCE1572_382	20.22	6.08
SCE1572_718	16.49	10.69
SCE1572_4531	26.77	17.77
SCE1572_10909	62.49	67.62
SCE1572_8795	28.47	30.28
SCE1572_5630	77.63	263.17
SCE1572_11566	53.75	44.41
SCE1572_4742	24.96	71.2
SCE1572_3164	55.64	21.58
SCE1572_7041	31.92	6.78
SCE1572_8616	67.58	46.68
SCE1572_4867	0	0
SCE1572_9129	20.17	12.55

SCE1572_7963	36.88	147.08
SCE1572_4026	54.16	157.03
SCE1572_7506	43.51	13.56
SCE1572_6606	35.05	17.15
SCE1572_5618	69.29	23.54
SCE1572_2118	19.56	8.83
SCE1572_9150	51.71	330.98
SCE1572_2419	293.81	1695.41
SCE1572_3907	12.06	4.15
SCE1572_11094	55.98	28.07
SCE1572_2947	0	0
SCE1572_6872	23.7	38.03
SCE1572_4315	35.38	9.73
SCE1572_3997	56.18	210.81
SCE1572_11049	53.05	47.64
SCE1572_2669	58.73	28.64
SCE1572_7720	34.87	194.54
SCE1572_7999	7.86	2.7
SCE1572_5759	9.5	0
SCE1572_3113	61.71	15.82
SCE1572_11430	100.56	366.42
SCE1572_6145	26.79	8.51
SCE1572_10621	17.41	17.21
SCE1572_3064	74.85	26.18
SCE1572_6764	31.03	65.09
SCE1572_9159	23.69	7.6
SCE1572_9486	10.73	17.5
SCE1572_5442	30.62	15.71
SCE1572_2008	55.57	9.28
SCE1572_557	36.56	49.25
SCE1572_9456	0	0
SCE1572_6793	43.83	142.84
SCE1572_4262	43.86	22.12
SCE1572_6618	16.59	12.2
SCE1572_1256	46.58	37.88
SCE1572_8662	19.27	14.95
SCE1572_762	102.04	32.43
SCE1572_7237	103.21	1123.89
SCE1572_668	26.47	26.65
SCE1572_7162	43.05	28.16
SCE1572_8168	26.52	8.33
SCE1572_7192	58.48	5.21
SCE1572_1073	48.45	27.59
SCE1572_1588	10.94	5.18
SCE1572_9119	36.84	11.94
SCE1572_8095	9.73	1.38
SCE1572_4337	0	0
SCE1572_4305	21.69	13.36

SCE1572_10387	26.24	19.09
SCE1572_10705	29.23	6.59
SCE1572_9122	103.59	46.24
SCE1572_2943	5.76	0
SCE1572_3119	10.05	56.45
SCE1572_4445	35.97	113.52
SCE1572_4339	36.36	20.48
SCE1572_11008	22.91	49.88
SCE1572_1611	10.11	164.68
SCE1572_7632	345.12	3112.79
SCE1572_11416	22.87	47.86
SCE1572_10734	31.55	18.52
SCE1572_6646	22.7	11.71
SCE1572_548	52.42	18.12
SCE1572_337	54.46	26.7
SCE1572_7634	94.71	860.11
SCE1572_11544	57.44	17.44
SCE1572_517	61.58	40.55
SCE1572_11266	305.88	1693.75
SCE1572_7518	100.51	555.61
SCE1572_10371	17.21	16.75
SCE1572_1510	42.17	20.56
SCE1572_11248	21.95	11.56
SCE1572_7946	62.85	38.65
SCE1572_9918	58.21	28.24
SCE1572_8508	32.31	43.07
SCE1572_11322	12.79	12.54
SCE1572_592	24.78	65.32
SCE1572_2482	13.66	21.81
SCE1572_9831	15.23	10
SCE1572_9511	2.49	0
SCE1572_2897	5.99	0
SCE1572_4860	13.13	0
SCE1572_3775	26.76	27.32
SCE1572_1636	27.42	308.63
SCE1572_3274	23.82	16.38
SCE1572_8521	0	0
SCE1572_1805	12.85	12.37
SCE1572_9975	21.11	13.48
SCE1572_1618	21.97	24.93
SCE1572_7805	47.68	61.39
SCE1572_8981	0	0
SCE1572_6774	45.7	27.94
SCE1572_2676	16.5	191.15
SCE1572_3305	67.42	97.05
SCE1572_10105	24.45	23.54
SCE1572_7727	41.96	100.5
SCE1572_4565	25.33	58.2

SCE1572_841	47.12	80.31
SCE1572_11383	71.63	77.58
SCE1572_6426	33.08	8.85
SCE1572_2527	186.22	36.34
SCE1572_9090	23.45	4.03
SCE1572_6179	65.86	1384.42
SCE1572_11087	20.96	90.81
SCE1572_6244	27.88	6.99
SCE1572_5351	22.15	12.3
SCE1572_142	19.41	3.78
SCE1572_341	62.37	40.64
SCE1572_4823	29.35	50.45
SCE1572_348	22.86	183.43
SCE1572_315	52.03	20.77
SCE1572_6118	33.61	7.19
SCE1572_8493	9.51	4.29
SCE1572_7392	6.22	0
SCE1572_8286	24.74	69.14
SCE1572_6226	28.39	34.42
SCE1572_1521	27.86	9.36
SCE1572_7130	45.72	28.77
SCE1572_3878	92.57	74.91
SCE1572_10316	0	0
SCE1572_2127	12.63	3.38
SCE1572_5661	19.61	15.73
SCE1572_1456	26.95	13.52
SCE1572_2410	87.26	163.1
SCE1572_11345	121.95	341.12
SCE1572_4877	15.98	13.81
SCE1572_4213	285.6	1054.03
SCE1572_7136	37.25	10.87
SCE1572_8988	11.44	0
SCE1572_205	20.6	10.34
SCE1572_9181	34.27	15.66
SCE1572_298	26.84	32.3
SCE1572_6033	166.75	260.19
SCE1572_882	81.71	88.24
SCE1572_8638	69.89	191.52
SCE1572_7990	0	0
SCE1572_9024	79.25	725.7
SCE1572_3605	238.67	130.66
SCE1572_2717	62.49	32.05
SCE1572_9697	11.98	17.75
SCE1572_125	33.77	13.84
SCE1572_10294	62.09	198.8
SCE1572_1924	79.42	170.88
SCE1572_6334	22.89	8.58
SCE1572_3881	16.17	4.87

SCE1572_6131	129.47	881.55
SCE1572_6113	21.5	46.44
SCE1572_4805	32.63	26.18
SCE1572_1575	21.08	20.49
SCE1572_43	10	6.68
SCE1572_3789	695.72	6152.73
SCE1572_10966	40.82	18.05
SCE1572_10795	6.69	21.47
SCE1572_7698	27.8	16.95
SCE1572_199	32.56	56.08
SCE1572_7177	29.53	24.97
SCE1572_6433	14.21	9.12
SCE1572_11236	20.05	7.62
SCE1572_9237	116.13	46.59
SCE1572_6343	31.01	103.67
SCE1572_5677	31.59	46.78
SCE1572_1789	18.01	0
SCE1572_4761	0	0
SCE1572_8979	0	0
SCE1572_7019	114.77	75.28
SCE1572_2368	14.19	3.9
SCE1572_2370	13.32	32.07
SCE1572_7987	27.09	42.64
SCE1572_9020	0	0
SCE1572_312	35.63	17.95
SCE1572_3178	6.59	0
SCE1572_8881	61.82	30.16
SCE1572_8898	3.18	0
SCE1572_6789	71.72	34.83
SCE1572_5993	68.16	62.86
SCE1572_9470	71.6	448.04
SCE1572_7241	31.55	26.75
SCE1572_2130	5.77	0.99
SCE1572_5425	53.47	84.58
SCE1572_5877	52.48	87.02
SCE1572_3555	22.53	10.11
SCE1572_267	47.48	27.12
SCE1572_6048	102.03	225.68
SCE1572_3890	13.47	8.24
SCE1572_9684	125.22	403.05
SCE1572_9726	13.02	11.19
SCE1572_3791	40.09	33.37
SCE1572_1316	23.39	20.13
SCE1572_9290	39.33	159.84
SCE1572_2067	32.02	34
SCE1572_9111	37.15	5.47
SCE1572_9175	622.11	944.12
SCE1572_1769	38.64	14.09

SCE1572_5609	11.09	2.85
SCE1572_695	6.27	22.65
SCE1572_609	0	0
SCE1572_3230	41.01	121.14
SCE1572_6477	20.76	10.86
SCE1572_7230	57.83	52.67
SCE1572_3395	30.63	7.37
SCE1572_8667	34.69	24.74
SCE1572_4517	14.96	7.55
SCE1572_9299	158.38	1676.74
SCE1572_3570	31.5	13.43
SCE1572_1449	24.59	27.62
SCE1572_2862	5.95	0
SCE1572_6930	15.59	0
SCE1572_3947	142.99	329.19
SCE1572_2696	40.49	27.2
SCE1572_7426	40.89	131.21
SCE1572_7477	13.71	52.41
SCE1572_5831	31.95	34.68
SCE1572_1552	58.17	44.68
SCE1572_8276	58.71	63.67
SCE1572_7264	63.33	29.26
SCE1572_6743	10.83	3.72
SCE1572_6005	27.2	57.62
SCE1572_10690	38.48	62.68
SCE1572_323	24.96	28.46
SCE1572_5125	46.62	9.44
SCE1572_2111	32.06	144.53
SCE1572_9054	24.33	12.78
SCE1572_4997	22.97	34.88
SCE1572_9874	34.72	15.3
SCE1572_8770	4.1	0
SCE1572_3886	40.68	27.97
SCE1572_5333	11.23	11.58
SCE1572_743	20.12	15.77
SCE1572_3719	30.51	492.87
SCE1572_106	72.47	18.56
SCE1572_3509	18.23	10.24
SCE1572_977	88.44	1141.35
SCE1572_6974	16.47	12.26
SCE1572_3826	68.41	44.29
SCE1572_7546	49.95	47.81
SCE1572_9781	9.86	0
SCE1572_1696	26.91	12.45
SCE1572_9203	31.49	36.49
SCE1572_2139	23.3	6.43
SCE1572_8297	101.2	205.67
SCE1572_3181	55.25	379.7

SCE1572_8530	29.48	44.98
SCE1572_2902	19.58	9.43
SCE1572_8679	25.63	21
SCE1572_4102	1.88	0
SCE1572_10346	41.96	50.92
SCE1572_5260	29.82	415.54
SCE1572_3727	35.86	13.33
SCE1572_5247	91.89	42.02
SCE1572_5196	14.38	3.15
SCE1572_1998	62.52	21.32
SCE1572_6581	29.37	32.65
SCE1572_11329	199.23	491.59
SCE1572_1945	28.3	17.52
SCE1572_3415	57.28	450.07
SCE1572_2859	15.63	7.52
SCE1572_9218	38.65	32.2
SCE1572_6939	34.13	8.21
SCE1572_10888	24.89	0
SCE1572_1173	48.82	13.56
SCE1572_11455	130.76	86.82
SCE1572_10358	72.51	32.95
SCE1572_1647	67.18	114.44
SCE1572_9985	16.71	11.49
SCE1572_903	41.35	12.95
SCE1572_2128	85.19	29.54
SCE1572_2221	10.11	0
SCE1572_7407	0	0
SCE1572_10560	2.14	0
SCE1572_5115	27.23	51.37
SCE1572_7332	73.3	36.17
SCE1572_5951	28.36	15.75
SCE1572_1438	16.46	10.8
SCE1572_4911	69.98	162.11
SCE1572_1598	67.28	26.89
SCE1572_11312	0	0
SCE1572_4615	35.4	29.27
SCE1572_11428	59.27	29.86
SCE1572_9642	13.46	30.23
SCE1572_5706	38.96	129.93
SCE1572_9622	15.37	12.09
SCE1572_10175	533.77	1039.78
SCE1572_7334	100.76	602.78
SCE1572_1889	43.73	386.06
SCE1572_10254	0	0
SCE1572_1133	22.68	28.73
SCE1572_3664	23.88	5.13
SCE1572_4150	26.37	31.07
SCE1572_1651	60.8	7.23

SCE1572_5208	7.09	0
SCE1572_1328	51.7	9.79
SCE1572_2895	19.02	27.47
SCE1572_2974	0	0
SCE1572_9702	28.85	14.98
SCE1572_2454	73.36	238.64
SCE1572_7382	0	0
SCE1572_4006	35.17	32.52
SCE1572_4235	40.65	15.87
SCE1572_9936	73.15	203.27
SCE1572_837	26.39	27.03
SCE1572_4652	46.2	51.82
SCE1572_1420	15.09	24.97
SCE1572_7080	22.81	112.22
SCE1572_8652	40.25	137.67
SCE1572_4188	37.43	134.82
SCE1572_7204	22.3	0
SCE1572_9373	54.95	17.53
SCE1572_849	45.83	108.96
SCE1572_1875	56.13	37.79
SCE1572_9284	0	0
SCE1572_5372	109.82	1473.72
SCE1572_5178	16.68	13.73
SCE1572_2073	9.79	1.68
SCE1572_8706	35.67	54.49
SCE1572_6592	55.52	149.05
SCE1572_7836	17.78	38.53
SCE1572_11591	52.51	45.81
SCE1572_8539	15.12	15.87
SCE1572_3835	34.41	14.05
SCE1572_6830	7	0
SCE1572_11030	47.38	98.07
SCE1572_3266	43.9	105.66
SCE1572_5948	58.03	36.04
SCE1572_148	16.95	9.07
SCE1572_23	21.04	66.23
SCE1572_5947	28.54	19.24
SCE1572_948	38.14	15.71
SCE1572_2338	21.97	88.85
SCE1572_4224	15.16	0
SCE1572_7888	13.62	15.05
SCE1572_1562	42.73	16.59
SCE1572_5532	44.98	22.06
SCE1572_10132	29.35	23.32
SCE1572_775	163.48	317.32
SCE1572_2070	75.81	13.68
SCE1572_9183	27.44	13.46
SCE1572_6949	36.87	16.95

SCE1572_5121	14.08	7.09
SCE1572_1874	14.1	11.88
SCE1572_8937	832.84	7173.44
SCE1572_6818	16.28	7.35
SCE1572_10945	34.55	32.25
SCE1572_3281	18.06	27.45
SCE1572_5527	38.09	26.59
SCE1572_4618	32.31	24.8
SCE1572_3833	33.6	11.55
SCE1572_11166	31.13	86.03
SCE1572_1477	51.12	25.81
SCE1572_8127	46.1	22.19
SCE1572_8824	7.32	102.91
SCE1572_7061	0	0
SCE1572_2817	0	0
SCE1572_9804	0	0
SCE1572_871	88.44	175.16
SCE1572_6585	66.64	137.14
SCE1572_4607	11.59	16.27
SCE1572_9906	117.52	94.29
SCE1572_8011	35.12	102.42
SCE1572_7417	19.19	24.02
SCE1572_7349	36.37	17.71
SCE1572_9032	35.1	21.47
SCE1572_7874	29.99	46.12
SCE1572_6923	24.57	14.79
SCE1572_6015	153.66	44.38
SCE1572_7429	29.86	11.06
SCE1572_4005	25.92	43.67
SCE1572_1787	31.7	14.93
SCE1572_2514	17.58	0
SCE1572_5459	26.47	9.1
SCE1572_3630	34.14	59.96
SCE1572_8769	151.17	51.68
SCE1572_3935	13.39	9.91
SCE1572_5414	23.28	10.25
SCE1572_11016	7.11	0
SCE1572_7544	15.06	0
SCE1572_6671	25.5	9.95
SCE1572_7073	138.98	45.62
SCE1572_6329	34.53	28.66
SCE1572_64	50.22	83.68
SCE1572_5977	27.98	17.23
SCE1572_8807	41.18	4.51
SCE1572_6839	13.6	4.71
SCE1572_7760	71.71	68.33
SCE1572_4711	40.25	34.45
SCE1572_3348	32.75	20.44

SCE1572_1029	20.22	120.12
SCE1572_462	38.33	50.19
SCE1572_11038	0	0
SCE1572_10520	32.73	23.81
SCE1572_5154	28.83	20.15
SCE1572_6555	49.64	22.45
SCE1572_6123	19.45	29.68
SCE1572_5496	62.1	37.36
SCE1572_3450	26.93	10.97
SCE1572_4001	43.17	708.73
SCE1572_1269	41.28	35.29
SCE1572_4463	20.26	10.39
SCE1572_2265	53.86	108.04
SCE1572_1933	29	108.47
SCE1572_8218	37.43	21.73
SCE1572_1243	33.82	84.21
SCE1572_7233	30.99	19.98
SCE1572_5140	29.32	18.93
SCE1572_3120	32.31	17.95
SCE1572_8811	18.16	4.37
SCE1572_7929	55.78	142.87
SCE1572_8672	47.43	52.4
SCE1572_10059	627.87	4216.06
SCE1572_2486	48.68	77.79
SCE1572_5570	32.59	18.14
SCE1572_1716	0	0
SCE1572_7296	27.7	35.09
SCE1572_1286	49.97	835.53
SCE1572_4143	42.72	24.19
SCE1572_10838	27.76	28.64
SCE1572_11467	60.08	160.29
SCE1572_3123	67.22	34.16
SCE1572_3810	65.47	38.7
SCE1572_1374	28.18	59.25
SCE1572_5194	13.96	14.4
SCE1572_11300	22.65	45.8
SCE1572_8122	30.32	10.07
SCE1572_3637	0	0
SCE1572_2420	367.54	1325.91
SCE1572_8093	31.23	12.53
SCE1572_7376	30.55	26.11
SCE1572_5072	27.77	23.01
SCE1572_6105	35.88	0
SCE1572_9149	127.01	361.1
SCE1572_6795	80.01	135.94
SCE1572_11116	11.93	11.83
SCE1572_9809	19.84	34.1
SCE1572_1541	0	0

SCE1572_8590	202.74	708.63
SCE1572_4120	89.32	965.34
SCE1572_4617	36.81	4.22
SCE1572_1565	84.94	84.07
SCE1572_9165	0	0
SCE1572_4976	138.8	1498.24
SCE1572_3465	0	0
SCE1572_11582	42.76	45.68
SCE1572_10816	21.84	7.22
SCE1572_2694	17.77	98.36
SCE1572_6704	60.03	188.94
SCE1572_2207	33.22	16.4
SCE1572_3780	18.74	49.2
SCE1572_7	156.05	608.2
SCE1572_5340	26.74	34.53
SCE1572_11554	52.74	7.93
SCE1572_71	28.11	16.64
SCE1572_7096	62.97	29.66
SCE1572_3671	35.33	46.06
SCE1572_8200	56.15	9.01
SCE1572_1544	99.77	40.02
SCE1572_970	71.72	91.78
SCE1572_6418	83.7	1053.18
SCE1572_1379	33.01	13.47
SCE1572_10013	33.78	11.34
SCE1572_7317	9.19	3.69
SCE1572_915	5	4.01
SCE1572_8692	0	0
SCE1572_5477	23.35	286.56
SCE1572_795	170.33	322.57
SCE1572_11497	28.54	0
SCE1572_1571	27.44	10.43
SCE1572_4127	0	0
SCE1572_9636	96.15	130.84
SCE1572_8368	23.04	4.03
SCE1572_4962	22.8	100.61
SCE1572_4857	33.93	21.69
SCE1572_11183	62.43	119.4
SCE1572_9518	56.03	115.03
SCE1572_11306	36.71	89.45
SCE1572_8265	50.91	78.58
SCE1572_4350	18.09	8.71
SCE1572_4031	1147.07	1218.61
SCE1572_6200	68.83	110.06
SCE1572_4401	10.9	0
SCE1572_1229	18.95	19.63
SCE1572_2408	122.99	718.67
SCE1572_2593	0	0

SCE1572_6038	8.76	7.3
SCE1572_10076	321.83	846.9
SCE1572_10543	0	0
SCE1572_9672	39.9	108.84
SCE1572_575	2.76	0
SCE1572_8018	12.2	12.58
SCE1572_10896	5.12	0
SCE1572_5710	12.25	1.4
SCE1572_2223	48.33	197.16
SCE1572_10586	0	0
SCE1572_1362	113.78	519.02
SCE1572_8990	94.62	1865.86
SCE1572_10806	111.86	27.72
SCE1572_3669	0	0
SCE1572_1578	39.74	16.19
SCE1572_8503	62.27	10.86
SCE1572_9446	86.97	104.67
SCE1572_7700	35.02	10.67
SCE1572_570	74.73	224.33
SCE1572_9127	28.64	47.3
SCE1572_5203	33.82	214.34
SCE1572_788	56.49	69.22
SCE1572_10755	34.47	16.85
SCE1572_4690	34.65	53.67
SCE1572_5820	76.42	71.44
SCE1572_195	2.23	8.05
SCE1572_7850	47.92	73.81
SCE1572_5356	0	0
SCE1572_4298	101.08	78.2
SCE1572_7842	157.74	261.71
SCE1572_9792	12.69	3.39
SCE1572_4389	98.39	27.18
SCE1572_2190	52.09	158.95
SCE1572_9862	37.9	30.98
SCE1572_9955	51.23	20.05
SCE1572_4771	28.21	14.4
SCE1572_2841	30.32	19.46
SCE1572_4815	22.4	103.78
SCE1572_4105	20.07	7.51
SCE1572_648	64.18	98.53
SCE1572_2865	5.76	0
SCE1572_10221	82.13	29.28
SCE1572_8152	13.78	0
SCE1572_4625	18.47	8.27
SCE1572_11307	34.85	74.66
SCE1572_4678	7.15	0
SCE1572_3680	27.86	8.78
SCE1572_4846	19.09	43.21

SCE1572_7342	50	282.84
SCE1572_10731	49.22	76.42
SCE1572_10431	46.31	32.36
SCE1572_6886	16.85	14.1
SCE1572_339	17.09	18.58
SCE1572_351	30.79	82.49
SCE1572_2303	21.25	64.8
SCE1572_11009	37.39	36.62
SCE1572_2477	86.27	20.56
SCE1572_386	4.1	4.93
SCE1572_3916	94.09	98.35
SCE1572_10223	37.74	56.26
SCE1572_9273	56.12	69.56
SCE1572_10315	13.34	37.95
SCE1572_2197	41.85	38.34
SCE1572_7677	20.44	6.05
SCE1572_6353	53.96	37.11
SCE1572_5847	50.54	63.77
SCE1572_7645	26.46	21.47
SCE1572_396	0	0
SCE1572_1263	47.79	759.36
SCE1572_8930	166.23	164.88
SCE1572_8718	40.23	55.04
SCE1572_646	0	0
SCE1572_116	42.06	72.32
SCE1572_4107	16.48	9.7
SCE1572_7978	45.01	35.42
SCE1572_5941	32.78	11.66
SCE1572_1961	64.68	19.56
SCE1572_1002	24.02	5.42
SCE1572_9336	14.73	29.19
SCE1572_3473	138.2	90.72
SCE1572_10099	44.2	76.83
SCE1572_9650	38.64	16.91
SCE1572_5825	30.94	29.49
SCE1572_9924	120.05	354.9
SCE1572_5598	39.74	116.55
SCE1572_5299	34.68	13.12
SCE1572_3541	0	0
SCE1572_10403	30.26	62.59
SCE1572_7289	60.52	17.82
SCE1572_6165	18.06	35.1
SCE1572_3066	21.18	10.19
SCE1572_8619	39.83	25.23
SCE1572_4157	5.8	3.99
SCE1572_1084	15.5	11.66
SCE1572_2081	77.69	35.44
SCE1572_4493	29.79	52.46

SCE1572_8762	36.76	19.25
SCE1572_10438	20.64	25.7
SCE1572_7493	58.17	22.05
SCE1572_2465	30.78	40.75
SCE1572_466	49.01	36.86
SCE1572_3197	11.2	7.19
SCE1572_6827	41.6	220.55
SCE1572_6934	63.96	148.47
SCE1572_7467	45.67	36.94
SCE1572_2244	48.22	32.41
SCE1572_7579	62.31	72.21
SCE1572_5545	25.27	21.96
SCE1572_10693	32.4	21.83
SCE1572_8314	89.65	99.64
SCE1572_2311	136.42	262.98
SCE1572_8612	40.4	11.03
SCE1572_11147	35.92	12.64
SCE1572_3204	75.37	102.18
SCE1572_6189	42.24	34.82
SCE1572_11522	50.77	20.37
SCE1572_626	40.49	43.07
SCE1572_7092	13.62	50.26
SCE1572_8149	30.01	15.21
SCE1572_157	73.23	439.46
SCE1572_6805	50.41	47.64
SCE1572_5015	223.58	6096.05
SCE1572_246	7.98	7.68
SCE1572_6876	17.36	39
SCE1572_6947	32.37	18.18
SCE1572_4648	57.17	29.91
SCE1572_3300	35.64	14.98
SCE1572_4322	31	11.76
SCE1572_7413	36.53	57.73
SCE1572_345	25.7	9.9
SCE1572_3174	46.61	77.06
SCE1572_1032	39.14	32.56
SCE1572_3024	42.13	20.68
SCE1572_4045	16.41	13.37
SCE1572_10955	142.7	391.27
SCE1572_10092	74.6	59.02
SCE1572_6989	14.88	15.67
SCE1572_7126	165.09	75.69
SCE1572_6902	63.63	11.34
SCE1572_11542	75.53	18.44
SCE1572_10244	8.03	0
SCE1572_1039	24.28	4.77
SCE1572_11361	28.89	39.85
SCE1572_5394	212.95	99.52

SCE1572_7001	40.88	38.74
SCE1572_1928	107.28	247.67
SCE1572_9659	62.12	86.39
SCE1572_10292	153.1	228.97
SCE1572_11372	41.48	161.7
SCE1572_10501	39.31	70.96
SCE1572_10469	31.78	113.14
SCE1572_7153	91.92	26.23
SCE1572_5337	63.83	28.23
SCE1572_4586	168.22	323.39
SCE1572_10442	19.1	6.11
SCE1572_1867	85.28	56.42
SCE1572_4092	61.59	24.71
SCE1572_3522	0	0
SCE1572_9718	63.12	212.18
SCE1572_8100	26.34	34.75
SCE1572_11051	42.96	336.03
SCE1572_5416	24.24	6.78
SCE1572_4826	68.01	88.36
SCE1572_1192	44.51	27.62
SCE1572_3500	51.32	47.07
SCE1572_10115	39.22	57.14
SCE1572_3036	38.52	8.88
SCE1572_3078	43.16	47.36
SCE1572_2318	15.11	0
SCE1572_9823	79.16	20.19
SCE1572_1406	72.97	119.45
SCE1572_7068	16.91	10.18
SCE1572_5314	0	0
SCE1572_10715	42.59	31.51
SCE1572_2090	14.74	0
SCE1572_11243	16.33	37.43
SCE1572_4940	179.18	2116.55
SCE1572_4118	28.61	3541.81
SCE1572_1558	40.45	15.89
SCE1572_5224	43.63	70.88
SCE1572_10858	275.39	449.06
SCE1572_7747	52.42	70.54
SCE1572_11219	48.41	28
SCE1572_6498	60.49	222.58
SCE1572_10173	74.3	75.12
SCE1572_4019	31.62	38.51
SCE1572_8116	0	0
SCE1572_9140	30.84	13.61
SCE1572_2259	116.72	35.8
SCE1572_10910	88.82	19.31
SCE1572_10689	14.15	14.6
SCE1572_7190	45.53	55.96

SCE1572_9344	31.69	91.75
SCE1572_3439	24.2	18.69
SCE1572_10231	80.64	29.08
SCE1572_8189	34.24	26.16
SCE1572_10129	27.46	2.87
SCE1572_5468	43.07	18.18
SCE1572_8592	64.54	65.67
SCE1572_6688	27.4	8.78
SCE1572_2262	17.4	11.39
SCE1572_1587	51.32	0
SCE1572_8244	354.59	1253.68
SCE1572_4709	37.61	6.32
SCE1572_3382	9.45	27.69
SCE1572_8088	56.78	14.04
SCE1572_8813	0	0
SCE1572_7356	100	102.66
SCE1572_8655	211.69	2161.99
SCE1572_7819	120.41	442.48
SCE1572_8227	21.41	77.31
SCE1572_7669	23.11	6.89
SCE1572_3496	34.95	48.31
SCE1572_3695	26.87	110.86
SCE1572_2549	0	0
SCE1572_8482	18.27	131.9
SCE1572_975	340.72	5457.79
SCE1572_7695	17.3	22.04
SCE1572_1331	50.54	34.17
SCE1572_3107	15.08	13.1
SCE1572_9343	140.27	1218.32
SCE1572_5259	13.59	11.15
SCE1572_7280	19.64	7.27
SCE1572_4987	68.86	87.23
SCE1572_5451	49.15	21.58
SCE1572_2033	78.43	160.9
SCE1572_11425	51.27	72.01
SCE1572_7365	66.5	148.99
SCE1572_1748	49.09	43.8
SCE1572_8081	4.97	0
SCE1572_10527	42.64	40.73
SCE1572_8038	66.83	18.41
SCE1572_407	51.02	383.95
SCE1572_9948	73.64	20.85
SCE1572_4473	41.35	88.47
SCE1572_7898	37.04	93.91
SCE1572_1451	23.98	5.87
SCE1572_6098	31.29	32.22
SCE1572_6719	49.55	364.92
SCE1572_10233	21.66	6.13

SCE1572_3295	12.89	14.77
SCE1572_3787	76.85	121.64
SCE1572_586	38.48	31.25
SCE1572_8388	26.59	10.89
SCE1572_11126	27.07	21.26
SCE1572_2579	66.74	35.7
SCE1572_1505	38.13	10.67
SCE1572_11598	85.7	1010.9
SCE1572_3401	26.44	12.73
SCE1572_856	0	0
SCE1572_11157	87.16	35.66
SCE1572_1363	177.76	926.99
SCE1572_4700	26.97	12.98
SCE1572_5008	195.95	629.54
SCE1572_4923	14.17	6.82
SCE1572_6864	2.11	0
SCE1572_4952	9.85	0.85
SCE1572_1629	6.42	3.09
SCE1572_8056	0	0
SCE1572_2998	85.55	75.59
SCE1572_1338	24.35	17.45
SCE1572_534	0	0
SCE1572_5084	83.57	1490.47
SCE1572_10864	25.27	79.53
SCE1572_4670	31.37	9.56
SCE1572_4408	45.91	12.85
SCE1572_7960	41.14	77.02
SCE1572_7920	66.8	32.93
SCE1572_6928	34.36	37
SCE1572_11482	40.68	151.31
SCE1572_5130	51.9	95.34
SCE1572_8999	164.86	784.03
SCE1572_6207	40.64	8.87
SCE1572_747	34.06	12.06
SCE1572_7318	22.99	19.25
SCE1572_5697	43.71	89.03
SCE1572_2626	25.72	28.37
SCE1572_8713	62.36	39.4
SCE1572_3408	91.3	143.84
SCE1572_6211	50.54	9.5
SCE1572_4720	54.12	20.88
SCE1572_5782	17.76	32.88
SCE1572_8210	13.04	20.17
SCE1572_8460	16.01	70.26
SCE1572_9741	41.77	214.73
SCE1572_1894	46.65	19.81
SCE1572_10738	60.03	29.1
SCE1572_9990	24.76	21.9

SCE1572_1915	88.7	41.38
SCE1572_7209	33.27	45.62
SCE1572_6968	42.87	223.99
SCE1572_5729	32.19	35.68
SCE1572_8852	39.89	19.69
SCE1572_3618	0	0
SCE1572_9891	43.77	1.88
SCE1572_1847	61.77	25.34
SCE1572_781	10.75	11.62
SCE1572_1724	58.18	277.39
SCE1572_5230	64.35	356.64
SCE1572_4683	76.41	49.63
SCE1572_9081	75.81	10.58
SCE1572_5280	66.56	97.91
SCE1572_7658	0	0
SCE1572_6961	0	0
SCE1572_8854	25.96	116.23
SCE1572_5807	24.5	18.43
SCE1572_1152	17.65	17.5
SCE1572_10165	24.12	11.85
SCE1572_5520	24.12	35.94
SCE1572_11499	24.24	13.79
SCE1572_4959	0	0
SCE1572_2116	24.45	5.89
SCE1572_11538	43.03	650.94
SCE1572_8060	70.26	4.45
SCE1572_7558	17.97	0.76
SCE1572_5864	18.01	18.07
SCE1572_3367	63.89	1156.57
SCE1572_6339	15.82	45.94
SCE1572_8893	0	0
SCE1572_11490	0	13.81
SCE1572_11323	35.72	103.9
SCE1572_1167	12.4	56.4
SCE1572_5367	12.63	22.12
SCE1572_2151	41.81	8.13
SCE1572_9082	24.68	0
SCE1572_8945	161.13	811.67
SCE1572_10487	251.38	8122.2
SCE1572_9834	51.79	22.67
SCE1572_8804	27.71	172.27
SCE1572_8902	31.31	16.99
SCE1572_1310	233.26	2150.94
SCE1572_8191	51.46	21.52
SCE1572_8064	30.32	0
SCE1572_3333	70.02	148.08
SCE1572_8031	73.36	55.99
SCE1572_8256	21.96	40.93

SCE1572_708	59.7	100.21
SCE1572_10649	27.27	3.86
SCE1572_5833	46.74	97.42
SCE1572_4727	25.09	13.01
SCE1572_7808	122.85	99.32
SCE1572_10039	11.54	15.15
SCE1572_254	0	0
SCE1572_6367	27.34	130.12
SCE1572_7707	34.64	23.59
SCE1572_11059	67.23	15.37
SCE1572_2556	0	0
SCE1572_89	98.94	119.59
SCE1572_823	32.44	10.89
SCE1572_10365	41.9	122.86
SCE1572_1486	61.64	90.38
SCE1572_5720	22.66	11.69
SCE1572_274	0	0
SCE1572_8359	0	0
SCE1572_5250	44.55	220.51
SCE1572_9204	36.67	61.61
SCE1572_6460	62.71	28.16
SCE1572_7225	110.77	92.65
SCE1572_3279	41.94	68.77
SCE1572_3254	9.28	20.61
SCE1572_1215	44.63	3.41
SCE1572_6980	24.4	11.53
SCE1572_10061	1251.91	7965.73
SCE1572_4971	0	0
SCE1572_10259	20.81	7.16
SCE1572_8835	50.75	16.8
SCE1572_5955	0	0
SCE1572_1198	99.48	33.9
SCE1572_8437	1.56	22.57
SCE1572_4927	18.1	0
SCE1572_2096	20.86	65.28
SCE1572_6905	30.93	9.08
SCE1572_5882	41.2	37.02
SCE1572_6445	26.1	12.03
SCE1572_8555	15.73	192.79
SCE1572_9163	12.26	1.55
SCE1572_9120	18	15.97
SCE1572_10711	9.63	0
SCE1572_2277	55.46	447.14
SCE1572_5730	0	0
SCE1572_8432	6.65	1.69
SCE1572_1342	195.25	673.4
SCE1572_1108	55.22	15.25
SCE1572_7530	39.19	30.49

SCE1572_111	39.55	23.8
SCE1572_3770	0	0
SCE1572_5024	52.75	34.82
SCE1572_6420	43.65	58.31
SCE1572_11221	9.94	0
SCE1572_5053	64.33	47.34
SCE1572_965	6.37	0
SCE1572_10626	17.44	45.21
SCE1572_2393	49.52	290.04
SCE1572_5914	30.23	92.08
SCE1572_9533	28.17	29.88
SCE1572_9014	130.89	528.85
SCE1572_10970	99.98	270.71
SCE1572_10600	16.5	8.99
SCE1572_10085	86.82	245.84
SCE1572_3100	18.22	6.45
SCE1572_6821	45.75	14.16
SCE1572_7628	17.53	15.82
SCE1572_5037	33.54	241.44
SCE1572_7740	38.41	71.04
SCE1572_2737	17.04	23.63
SCE1572_6735	42.44	149.35
SCE1572_1425	47.79	57.51
SCE1572_4733	28.93	39
SCE1572_2700	7.98	2.95
SCE1572_1842	49.71	7.49
SCE1572_9618	15.16	15.78
SCE1572_5865	36.27	22.79
SCE1572_5756	44.65	16.25
SCE1572_162	36.26	20.82
SCE1572_10519	25.02	13.21
SCE1572_7513	10.17	3.16
SCE1572_432	34.15	155.06
SCE1572_10985	2945.68	8445.35
SCE1572_11399	34.54	56.53
SCE1572_8397	26.31	14.48
SCE1572_3236	74.8	559.55
SCE1572_569	73.36	115.36
SCE1572_6712	58.11	247.57
SCE1572_980	21.17	17.9
SCE1572_945	74.53	14.72
SCE1572_4483	42.72	66.66
SCE1572_5744	42.18	32.53
SCE1572_11289	0	0
SCE1572_9402	297.4	1405.3
SCE1572_6728	12.29	32.41
SCE1572_5674	33.28	13.35
SCE1572_503	12.57	3.78

SCE1572_1048	18.49	32.64
SCE1572_1604	65.42	42.61
SCE1572_10512	164.34	387.89
SCE1572_3977	59.9	40.83
SCE1572_10201	20.55	43.48
SCE1572_7535	527.12	153.08
SCE1572_10684	49.17	14.79
SCE1572_6602	10.22	6.83
SCE1572_2793	15.55	1.65
SCE1572_4253	1.46	0
SCE1572_10871	48.13	18.42
SCE1572_1622	31.24	196.21
SCE1572_8321	31.55	23.2
SCE1572_185	31.99	6.7
SCE1572_650	756.41	1310.03
SCE1572_9797	25.57	30.78
SCE1572_1637	10.47	8.94
SCE1572_6215	44.59	16.36
SCE1572_2615	20.35	20.54
SCE1572_7611	35.35	98.51
SCE1572_475	25.49	268.97
SCE1572_2656	47.6	26.16
SCE1572_9436	587.4	1828.88
SCE1572_635	153.03	966.7
SCE1572_10267	31.69	52.8
SCE1572_1632	36.53	48.36
SCE1572_5284	27.32	65.76
SCE1572_4057	1.85	0
SCE1572_1470	56.74	49.76
SCE1572_2756	3.37	0
SCE1572_400	26.85	22.81
SCE1572_5013	43.54	93.7
SCE1572_6953	22.58	14.23
SCE1572_5556	60.58	94.96
SCE1572_10859	141.54	405.11
SCE1572_1658	24.78	8.77
SCE1572_4932	232.98	956.72
SCE1572_9965	0	0
SCE1572_6542	54.65	87.68
SCE1572_359	46.33	27.44
SCE1572_7774	7.71	0
SCE1572_401	49.62	42.02
SCE1572_11549	26.67	15.83
SCE1572_8023	16.33	0
SCE1572_8404	20.34	4.45
SCE1572_3422	38.04	49.4
SCE1572_6475	97.54	560.57
SCE1572_10727	80.37	53.5

SCE1572_11507	24.09	9.9
SCE1572_953	43.18	43.5
SCE1572_5930	0	0
SCE1572_7214	32.23	104.88
SCE1572_6073	2.92	0
SCE1572_3803	46.29	16.15
SCE1572_2166	62.72	23.02
SCE1572_6391	0	0
SCE1572_1683	10.22	434.63
SCE1572_206	0	0
SCE1572_4345	20.89	22.99
SCE1572_11295	13.42	32.29
SCE1572_11150	28.99	41.44
SCE1572_1022	43.89	20.58
SCE1572_284	14.76	16.15
SCE1572_8043	0	0
SCE1572_1013	19.17	9.74
SCE1572_6360	68.75	253.86
SCE1572_1702	22.05	23.7
SCE1572_5589	53.8	42.56
SCE1572_3554	6.97	2.1
SCE1572_6361	86.74	48.43
SCE1572_9962	3.09	0
SCE1572_375	44.02	14.13
SCE1572_3360	15.18	12.42
SCE1572_1382	3.61	0
SCE1572_496	33.51	32.26
SCE1572_4906	30.12	39.99
SCE1572_10279	9.32	0
SCE1572_7742	43.19	73.72
SCE1572_1958	71.95	89.07
SCE1572_2484	143.1	262.42
SCE1572_5543	58.2	7.37
SCE1572_11096	43.62	24.96
SCE1572_3840	35.18	12.1
SCE1572_11175	52.15	114.5
SCE1572_9050	45.79	52.39
SCE1572_4536	19.88	84.95
SCE1572_2141	23.78	1.43
SCE1572_363	28.39	9.62
SCE1572_2979	54	20
SCE1572_6042	85.32	3260.6
SCE1572_139	12.63	30.41
SCE1572_10363	42.26	140.8
SCE1572_2086	44.94	60.67
SCE1572_7149	11.95	50.87
SCE1572_2884	39.53	56.04
SCE1572_7256	41.23	84.47

SCE1572_7012	0	0
SCE1572_10071	851.58	1529.63
SCE1572_9429	11.96	8.06
SCE1572_6087	32.22	36.49
SCE1572_1454	22.3	12.38
SCE1572_5163	0	0
SCE1572_2811	114.59	8.49
SCE1572_6963	46.4	123.63
SCE1572_11528	20.61	4.41
SCE1572_2771	3.49	0
SCE1572_8139	17.63	53.75
SCE1572_8427	67.11	8.97
SCE1572_6847	11.39	0.68
SCE1572_18	55.2	188.91
SCE1572_9852	47.96	57.72
SCE1572_8582	43.08	29.91
SCE1572_3980	53.8	93.19
SCE1572_1717	17.81	55.42
SCE1572_713	47.21	61.62
SCE1572_4522	46.4	20.22
SCE1572_3892	48.29	89.2
SCE1572_1887	54.15	126.24
SCE1572_2458	48.76	160.76
SCE1572_3340	97.22	5100.43
SCE1572_2148	58.18	16.94
SCE1572_559	37.9	1148.83
SCE1572_2023	46.52	48.33
SCE1572_4729	36.93	23.39
SCE1572_10328	59.23	17.04
SCE1572_11069	56.94	54.03
SCE1572_5035	27.06	19.64
SCE1572_8484	27.72	56.61
SCE1572_10964	34.38	19.14
SCE1572_3188	13.33	2.76
SCE1572_10046	59.71	427.35
SCE1572_660	343.25	992.62
SCE1572_5654	37.87	434.93
SCE1572_7637	56.04	795.44
SCE1572_10703	36.14	173.95
SCE1572_3683	33.32	7.02
SCE1572_2729	22.59	16.15
SCE1572_7670	17.33	5.21
SCE1572_6172	3.23	0
SCE1572_10213	11.66	0
SCE1572_5060	67.26	179.78
SCE1572_3517	57.93	21.82
SCE1572_2945	0	0
SCE1572_2730	30.92	22.43

SCE1572_10334	25.42	24.04
SCE1572_8557	18.46	9
SCE1572_2343	54.15	39.1
SCE1572_7160	17.37	9.04
SCE1572_2076	38.12	41.99
SCE1572_7855	61.19	105.52
SCE1572_4309	23.11	9.14
SCE1572_1238	22.37	11.96
SCE1572_7792	24.48	9.07
SCE1572_1398	74.42	35.29
SCE1572_7799	2.57	0
SCE1572_552	22.88	110.14
SCE1572_11352	21.66	0
SCE1572_8589	17.38	4.65
SCE1572_4555	50.45	23.38
SCE1572_8548	42.54	17.73
SCE1572_8291	57.95	23.7
SCE1572_6757	32.52	43.37
SCE1572_685	0	0
SCE1572_5480	39.88	19.24
SCE1572_7732	11	28.07
SCE1572_9613	15.35	0
SCE1572_8301	89.89	1300.69
SCE1572_171	39.24	68.69
SCE1572_1880	44.62	30.03
SCE1572_3629	15.9	5.1
SCE1572_6786	91.57	160.78
SCE1572_6227	9.69	3.01
SCE1572_4580	53.27	24.28
SCE1572_11419	0	0
SCE1572_2279	81.56	122.16
SCE1572_2386	78.92	104.26
SCE1572_9171	16.98	10.97
SCE1572_1656	12.55	53.46
SCE1572_10893	34.36	58.93
SCE1572_10557	25.41	10.87
SCE1572_4317	18.8	2.89
SCE1572_1303	18.89	89.69
SCE1572_925	68.56	128.8
SCE1572_5437	0	0
SCE1572_8974	34.51	22.25
SCE1572_6549	42.62	92.49
SCE1572_1493	4.46	0
SCE1572_234	66.33	43.08
SCE1572_6573	50.07	15.17
SCE1572_8782	43.09	231.87
SCE1572_7749	82.7	28.75
SCE1572_759	1398.15	940.17

SCE1572_7301	0	0
SCE1572_4425	16.07	79.22
SCE1572_3091	151.62	102.8
SCE1572_3569	11.17	3.84
SCE1572_2509	42.45	79.24
SCE1572_8045	36.53	11.99
SCE1572_1040	8.64	0
SCE1572_2867	0	0
SCE1572_7311	38.49	15.35
SCE1572_1412	15.76	61.38
SCE1572_8723	18.27	13.19
SCE1572_10277	11.38	10.47
SCE1572_613	59.49	41.9
SCE1572_8076	84.34	26.99
SCE1572_10633	42.71	259.39
SCE1572_3763	29.9	35.98
SCE1572_7561	25.52	18.07
SCE1572_5892	39.13	150.09
SCE1572_470	67.38	187.43
SCE1572_2449	24.97	6.44
SCE1572_11092	37.65	146.21
SCE1572_11217	20.01	25.93
SCE1572_1277	0	0
SCE1572_3432	70.22	225.83
SCE1572_8180	20.78	5.86
SCE1572_2967	0.92	0
SCE1572_10009	41.4	30.01
SCE1572_9257	67.83	9.6
SCE1572_10056	17.93	141.26
SCE1572_9388	89.72	135.59
SCE1572_4596	97.79	574.75
SCE1572_9424	74.58	43.4
SCE1572_7857	37.83	29.61
SCE1572_10178	75.81	243.28
SCE1572_9815	38.36	21.29
SCE1572_2440	31.05	25.39
SCE1572_6435	36.6	8.99
SCE1572_3582	27.66	12.33
SCE1572_1524	128.29	135.68
SCE1572_9381	27.19	50.24
SCE1572_5893	17.54	9.38
SCE1572_3866	75.01	875.81
SCE1572_2238	69.3	479.21
SCE1572_10002	69.96	233.89
SCE1572_6324	57.78	195.22
SCE1572_10873	100.92	24.86
SCE1572_10781	10.46	0
SCE1572_8134	52.57	15.82

SCE1572_6157	48.54	28.81
SCE1572_5316	40.99	19.02
SCE1572_3320	33.46	47.01
SCE1572_11047	26.51	23.51
SCE1572_8178	1.52	0
SCE1572_11448	9.24	4.45
SCE1572_7680	31.76	21.64
SCE1572_3006	2.41	0
SCE1572_3728	55.27	14.13
SCE1572_6511	11.37	7.82
SCE1572_2838	67.23	15.37
SCE1572_930	78.84	639.02
SCE1572_2214	0	0
SCE1572_630	69.88	689.3
SCE1572_607	73.19	767.6
SCE1572_4392	35.75	13.35
SCE1572_1670	109.92	691.07
SCE1572_1760	0	0
SCE1572_7772	18.42	17.09
SCE1572_11335	0	0
SCE1572_672	26.15	75.72
SCE1572_2364	5.89	0
SCE1572_8352	19.36	7.76
SCE1572_5257	26.51	14.04
SCE1572_4202	26.86	31.97
SCE1572_9274	49.4	181.09
SCE1572_4757	33.57	18.25
SCE1572_2529	42.45	36.49
SCE1572_2799	32.75	12.96
SCE1572_7911	47.78	6.63
SCE1572_5853	27.96	15.73
SCE1572_7885	31.34	34.89
SCE1572_7140	0	0
SCE1572_3909	21.26	8.27
SCE1572_3622	80.88	17.24
SCE1572_3549	82.01	28.57
SCE1572_10842	4.13	6.63
SCE1572_10422	34.74	66.89
SCE1572_1704	16.85	0
SCE1572_2200	67.33	100.86
SCE1572_9269	63.55	72.26
SCE1572_7607	266.03	43.93
SCE1572_6278	40.15	92.08
SCE1572_11270	113.13	178.76
SCE1572_3641	34.72	20.1
SCE1572_1448	10.99	7.05
SCE1572_8222	28.08	21.83
SCE1572_6668	34.67	31.91

SCE1572_10391	44.65	17.78
SCE1572_3723	19.58	346.29
SCE1572_5401	19.88	0
SCE1572_2209	17.41	8.11
SCE1572_5051	53.45	31.5
SCE1572_2294	42.16	40
SCE1572_2739	27.86	41.42
SCE1572_9260	15.14	16.54
SCE1572_6238	36.57	11.87
SCE1572_2175	14.44	22.59
SCE1572_10144	32.13	16.34
SCE1572_1793	2.66	0
SCE1572_8299	28.27	6.19
SCE1572_5044	14.3	14.4
SCE1572_11579	61.01	36.16
SCE1572_3989	9.08	14.13
SCE1572_3448	31.5	29.53
SCE1572_2473	131.4	756.04
SCE1572_3614	24.69	14.6
SCE1572_4179	39.16	14.33
SCE1572_217	21.01	20.88
SCE1572_3012	27.69	7.93
SCE1572_7604	13.32	9.16
SCE1572_5446	52.99	19.49
SCE1572_6629	23.17	124.87
SCE1572_11570	23.73	577.53
SCE1572_3537	58.71	23.29
SCE1572_2564	25.27	13.22
SCE1572_7053	68.38	28.62
SCE1572_3293	44.4	30.24
SCE1572_6213	27.69	17.45
SCE1572_5011	20.18	44.84
SCE1572_3067	38.61	31.44
SCE1572_10740	24.78	14.2
SCE1572_9132	69.81	58.86
SCE1572_3161	26.37	63.46
SCE1572_2882	33.24	36.49
SCE1572_726	18.59	7.3
SCE1572_4371	37.66	16.27
SCE1572_7824	16.77	6.34
SCE1572_8143	10.03	0
SCE1572_2954	52.31	23.61
SCE1572_5103	60.52	414.99
SCE1572_9826	42.96	15.21
SCE1572_3579	46.65	158.08
SCE1572_9507	33.28	28.19
SCE1572_1085	75.81	30.6
SCE1572_7861	5.32	0

SCE1572_6231	25.48	14.07
SCE1572_11414	33.91	43.11
SCE1572_6492	26.41	26.7
SCE1572_1886	7.36	3.54
SCE1572_4664	94.76	15.61
SCE1572_9500	19.27	13.43
SCE1572_838	17.96	23.12
SCE1572_4803	31.73	30.54
SCE1572_5874	37.56	43.52
SCE1572_11531	24.23	11.66
SCE1572_8455	16.39	87.78
SCE1572_6926	31.98	5.7
SCE1572_9780	57.14	37.9
SCE1572_3260	143.26	224.13
SCE1572_3777	16.28	12.25
SCE1572_6220	40.57	8.57
SCE1572_1142	32.23	10.34
SCE1572_8822	21.83	5.68
SCE1572_7566	10.83	37.91
SCE1572_3604	95.2	64.86
SCE1572_10374	53.4	57.38
SCE1572_9914	1.92	0
SCE1572_4802	17.71	49.35
SCE1572_8785	16.19	130.19
SCE1572_4750	45.76	80.1
SCE1572_4672	41.03	22.9
SCE1572_3768	32.68	45.09
SCE1572_8251	32.59	23.87
SCE1572_2809	30.25	19.04
SCE1572_9608	51.69	42.85
SCE1572_11139	19.33	10.18
SCE1572_2017	44.65	17
SCE1572_7047	23.94	15.37
SCE1572_7038	32.61	26.96
SCE1572_4149	38.57	17.14
SCE1572_7596	77.74	190.5
SCE1572_10029	16.46	26.19
SCE1572_5074	490.01	179.82
SCE1572_2225	39.73	14.04
SCE1572_11002	15.44	13.52
SCE1572_9094	62.61	632.7
SCE1572_3159	319.19	1263.45
SCE1572_2634	69.43	28.26
SCE1572_11028	33.23	5
SCE1572_6136	75.17	59.28
SCE1572_4496	29.36	38.55
SCE1572_3130	39.21	19.92
SCE1572_8453	19.2	60.82

SCE1572_2427	388.3	511.32
SCE1572_8943	89.69	25.7
SCE1572_6301	55.26	85.96
SCE1572_4897	51.52	51.37
SCE1572_8863	20.79	7.3
SCE1572_3705	0	0
SCE1572_10023	25.75	19.85
SCE1572_7336	43.39	31.57
SCE1572_1113	7.4	22.25
SCE1572_2889	26.03	10.94
SCE1572_5818	55.63	18.4
SCE1572_7916	122.41	324.75
SCE1572_5727	26.99	99.99
SCE1572_2352	45.63	280.45
SCE1572_764	30.55	12.49
SCE1572_2372	49.74	137.01
SCE1572_9220	54.16	23.71
SCE1572_8603	36.43	50.95
SCE1572_10779	81.57	27.74
SCE1572_2831	31.72	21.38
SCE1572_7868	77.13	261.93
SCE1572_4175	88.48	20.64
SCE1572_1591	54.42	69.65
SCE1572_10318	77.93	52.55
SCE1572_1416	37.99	24.27
SCE1572_3031	5.83	0
SCE1572_9916	36.76	26.07
SCE1572_7640	28.02	85.28
SCE1572_229	100.22	510.27
SCE1572_5600	74.17	46.27
SCE1572_8512	118.23	52.62
SCE1572_1206	6.83	1.17
SCE1572_8369	19.17	20.39
SCE1572_4246	77.26	55.78
SCE1572_10798	28.43	11.4
SCE1572_9317	238.32	1187.64
SCE1572_7389	2.71	0
SCE1572_7409	31.95	16.94
SCE1572_6745	71.27	299.42
SCE1572_4875	54.56	30.41
SCE1572_3319	40.36	54.47
SCE1572_865	36.21	81.7
SCE1572_4211	203.23	528.84
SCE1572_3632	41.01	29.1
SCE1572_9026	15.01	326.02
SCE1572_803	3.09	0
SCE1572_222	31.78	18.81
SCE1572_1836	20.49	49.31

SCE1572_313	32.25	7.14
SCE1572_3591	0	0
SCE1572_7031	54.58	33.36
SCE1572_9686	86.33	133.76
SCE1572_9177	23.79	6.42
SCE1572_5427	31.18	62.11
SCE1572_4749	62.47	34.84
SCE1572_7017	0	0
SCE1572_3530	35.47	30.94
SCE1572_11195	17.59	13.1
SCE1572_994	52.12	27.37
SCE1572_5607	26.07	42.62
SCE1572_8574	6.32	10.14
SCE1572_9624	44.47	41.59
SCE1572_4453	34.38	48.8
SCE1572_3702	43.44	24.8
SCE1572_11274	69.11	242.42
SCE1572_9889	14.74	26.36
SCE1572_1850	57.6	43.25
SCE1572_6557	35.4	6.89
SCE1572_2001	33.37	19.21
SCE1572_11105	10.18	16.34
SCE1572_1432	5.51	4.42
SCE1572_2121	8.33	0
SCE1572_697	61.88	47.88
SCE1572_6143	6.74	0
SCE1572_2065	22.18	21
SCE1572_6776	228.46	69.22
SCE1572_5970	7.58	0
SCE1572_2751	54.23	40.44
SCE1572_8576	24.4	6.37
SCE1572_6740	21.21	76.86
SCE1572_8716	39.2	80.1
SCE1572_11251	33.49	11.52
SCE1572_4275	40.49	46.56
SCE1572_10552	0	0
SCE1572_269	48.07	22.25
SCE1572_293	4.53	0
SCE1572_5558	44.28	59.22
SCE1572_2491	113.33	33.17
SCE1572_6291	9.26	9.39
SCE1572_11385	106.53	867.44
SCE1572_10764	139.15	0
SCE1572_9238	27.07	18.25
SCE1572_9193	11.12	1.41
SCE1572_10936	0	0
SCE1572_11469	35.14	86.14
SCE1572_8617	38.04	6.73

SCE1572_9540	36.05	12.98
SCE1572_1968	29.63	46.14
SCE1572_3853	2.76	0
SCE1572_6246	29.76	6.78
SCE1572_9721	77.57	796.52
SCE1572_8165	0	0
SCE1572_6336	69.47	39.81
SCE1572_3572	0	0
SCE1572_1815	14.85	3.14
SCE1572_6007	44.24	89.61
SCE1572_4255	151.62	350.78
SCE1572_2981	24.72	54.21
SCE1572_2170	60.58	82.48
SCE1572_5696	77.48	55.32
SCE1572_1751	29.68	42.48
SCE1572_6198	83.59	16.65
SCE1572_7944	46.03	26.07
SCE1572_5924	24.73	18.79
SCE1572_10451	39.03	379.37
SCE1572_5522	21.96	19.31
SCE1572_4883	23.16	38.01
SCE1572_9188	25.85	18.23
SCE1572_10162	39	12.66
SCE1572_108	116.13	336.19
SCE1572_9728	37.3	47.8
SCE1572_11393	30.35	32.24
SCE1572_3129	21.14	14.04
SCE1572_3652	22.54	19.15
SCE1572_3190	9.57	0
SCE1572_7274	24.44	8.02
SCE1572_11370	31.19	9.5
SCE1572_5704	97.59	104.86
SCE1572_1988	61.39	20.9
SCE1572_4608	80.24	140.45
SCE1572_1075	39.21	32.36
SCE1572_10405	55.96	69.7
SCE1572_4731	24.26	7.3
SCE1572_3712	25.61	1848.48
SCE1572_10747	22.48	11.51
SCE1572_6932	74	1116.49
SCE1572_9057	2.81	0
SCE1572_10886	134.56	34.21
SCE1572_310	14.28	8.18
SCE1572_757	115.52	26.86
SCE1572_11405	22.57	9.73
SCE1572_7090	0	0
SCE1572_9731	64.42	57.18
SCE1572_9585	26.23	21.7

SCE1572_8284	44.47	4.87
SCE1572_10150	21.29	122.34
SCE1572_7339	39.65	800.02
SCE1572_10291	23.23	35.32
SCE1572_7901	43.48	8.94
SCE1572_1171	45.86	24.67
SCE1572_2132	43.54	14.71
SCE1572_11238	15.16	7.3
SCE1572_10496	55.55	80.78
SCE1572_2048	17.78	35.23
SCE1572_905	38.29	12.1
SCE1572_8631	111.02	75.78
SCE1572_7424	13.83	33.29
SCE1572_11132	10.31	4.38
SCE1572_526	43.85	110.46
SCE1572_11075	50.54	444.69
SCE1572_8669	14.61	0
SCE1572_7989	95.65	168.17
SCE1572_10938	20.64	12.16
SCE1572_9286	50.12	87.18
SCE1572_798	143.53	149.21
SCE1572_10348	49.45	17.5
SCE1572_9787	26.37	9.92
SCE1572_9547	49.33	19.67
SCE1572_7350	13.86	2.09
SCE1572_9007	24.92	32.49
SCE1572_7471	0	0
SCE1572_9758	61.03	127.23
SCE1572_8772	78.6	163.68
SCE1572_11453	20.14	22.81
SCE1572_3397	23.44	16.97
SCE1572_6121	11.14	7.31
SCE1572_10302	36.29	7.18
SCE1572_10472	67.06	173.44
SCE1572_1059	42.06	18.83
SCE1572_1186	12.09	12.12
SCE1572_8319	62.4	99.37
SCE1572_2287	44.09	144.93
SCE1572_9113	14.36	55.7
SCE1572_10458	87.14	61.52
SCE1572_5613	45.02	14.32
SCE1572_2900	7.68	9.24
SCE1572_7933	0	0
SCE1572_2289	23.49	179.89
SCE1572_7330	43.4	19.5
SCE1572_7266	0	0
SCE1572_1135	6.79	0
SCE1572_2972	46.52	30.65

SCE1572_10562	74.45	32.39
SCE1572_2848	27.72	10.04
SCE1572_8564	36.1	61.79
SCE1572_985	54.26	49.09
SCE1572_8058	38.51	0
SCE1572_5245	24.68	12.73
SCE1572_4999	108.74	583.33
SCE1572_10538	25.45	5.33
SCE1572_4304	26.11	9.92
SCE1572_8977	11.2	3.6
SCE1572_421	10.83	39.1
SCE1572_4115	57.76	63.72
SCE1572_1952	25.2	12.34
SCE1572_10717	14.57	8.35
SCE1572_8677	34.51	60.4
SCE1572_2002	29.74	66.53
SCE1572_480	28.01	21.98
SCE1572_1991	51.3	15.3
SCE1572_53	67	26.31
SCE1572_2160	43.71	18.65
SCE1572_3055	16.02	0
SCE1572_5262	0	0
SCE1572_1052	105.64	535.24
SCE1572_7370	43.93	24.33
SCE1572_6484	18.95	7.84
SCE1572_8753	28.39	7.74
SCE1572_11089	22.19	42.52
SCE1572_9475	55.45	116.92
SCE1572_5081	3337.38	4102.08
SCE1572_6583	34.9	31.67
SCE1572_8969	18.65	70.96
SCE1572_7158	36.41	39.24
SCE1572_4491	31.72	172.11
SCE1572_11343	31.66	156.4
SCE1572_10356	52.63	357.36
SCE1572_5222	39.43	27.77
SCE1572_1514	29.27	7.36
SCE1572_8982	29.01	17.13
SCE1572_6069	86.29	390.16
SCE1572_7323	4.94	0
SCE1572_4100	23.74	24.12
SCE1572_5965	21.4	20.39
SCE1572_9041	247.77	1838.83
SCE1572_3329	85.79	570.82
SCE1572_4500	21.16	5.66
SCE1572_6568	20.89	70.4
SCE1572_11446	94.34	131.08
SCE1572_9590	50.32	402.73

SCE1572_1972	28.41	105.2
SCE1572_4980	27.64	98.83
SCE1572_5643	0	0
SCE1572_4284	53.53	22.53
SCE1572_9468	23.84	54.79
SCE1572_6148	42.33	12.97
SCE1572_9306	40.6	78.9
SCE1572_8337	45.13	44.72
SCE1572_5632	18.28	40.79
SCE1572_9599	40.32	22
SCE1572_11353	3.37	0
SCE1572_7109	30.98	19.62
SCE1572_9570	58.97	20.03
SCE1572_3955	63.58	28.98
SCE1572_3798	22.57	31.57
SCE1572_2689	82.51	237.62
SCE1572_5344	45.75	21.59
SCE1572_3999	255.23	525.36
SCE1572_590	37.25	18.11
SCE1572_4501	52.34	232.46
SCE1572_3817	60.09	694.53
SCE1572_878	83.62	485.31
SCE1572_731	6.46	4.79
SCE1572_3940	335.21	662.17
SCE1572_2815	29.16	44.66
SCE1572_4126	62.77	23.24
SCE1572_8960	55.89	32.91
SCE1572_11282	34.28	80.27
SCE1572_4414	35.48	19.41
SCE1572_2231	13.55	93.78
SCE1572_165	21.91	7.54
SCE1572_3744	52.07	114.27
SCE1572_4195	35.62	74.14
SCE1572_307	0	0
SCE1572_7379	32.08	13.63
SCE1572_3327	289.1	2603.94
SCE1572_10635	65.08	168.69
SCE1572_5796	27.42	27.18
SCE1572_3902	20.42	98.31
SCE1572_7754	44.15	114.65
SCE1572_5504	31.72	27
SCE1572_546	0	0
SCE1572_10082	134.06	1006.42
SCE1572_7516	18.95	30.41
SCE1572_7231	52.48	94.42
SCE1572_3082	24.21	19.42
SCE1572_8537	26.59	26.75
SCE1572_8141	28.17	8.65

SCE1572_3560	53.47	13.68
SCE1572_3847	25.07	9.73
SCE1572_2740	14.08	9.97
SCE1572_7965	14.56	23.36
SCE1572_8234	0	0
SCE1572_6760	112.7	120.79
SCE1572_3166	48.93	30.99
SCE1572_6766	0	0
SCE1572_9459	0	0
SCE1572_34	58.78	217.83
SCE1572_7554	10.38	2
SCE1572_303	33.19	13.7
SCE1572_6874	116.57	1750.22
SCE1572_10915	0	0
SCE1572_6341	57.15	22.74
SCE1572_2105	157.27	812.91
SCE1572_2664	201.98	1877.65
SCE1572_9443	21.85	42.74
SCE1572_2920	44.66	11.27
SCE1572_2183	14.75	8.13
SCE1572_2854	0	0
SCE1572_6406	14.63	105.64
SCE1572_5666	11.73	7.6
SCE1572_10594	52.4	23.69
SCE1572_2917	10.4	4.81
SCE1572_10354	15.64	11.58
SCE1572_10143	39.11	159.29
SCE1572_1066	37.74	14.1
SCE1572_9553	42.35	17.73
SCE1572_4886	4.27	0
SCE1572_6352	55.82	54.47
SCE1572_9157	96.06	76.05
SCE1572_3310	18.31	6.15
SCE1572_9478	103.59	778.58
SCE1572_2776	0	0
SCE1572_2331	46.27	30.84
SCE1572_2714	44.56	58.86
SCE1572_2941	33.6	22.81
SCE1572_9484	179.73	778.94
SCE1572_3096	3.39	2.72
SCE1572_5987	15.34	12.21
SCE1572_10614	27.05	5.92
SCE1572_4465	42.08	61.85
SCE1572_193	31.7	46.2
SCE1572_2093	31.26	33.86
SCE1572_6253	38.08	221.37
SCE1572_9454	21.08	12.55
SCE1572_1820	21.78	30.24

SCE1572_1810	27.31	22.81
SCE1572_10923	239.67	19913.2
SCE1572_2498	0	0
SCE1572_8754	72.03	21.67
SCE1572_1803	20.53	15.21
SCE1572_7630	50.94	297.78
SCE1572_10548	40.91	14.45
SCE1572_489	16.04	8.18
SCE1572_10189	20.34	49.92
SCE1572_4865	34.04	81.92
SCE1572_7981	27.27	39.38
SCE1572_2674	22.97	125.33
SCE1572_3115	32.96	15.87
SCE1572_5906	57.3	335.37
SCE1572_11071	69.94	75.81
SCE1572_10102	31.15	115.98
SCE1572_5099	21.52	4.78
SCE1572_3962	33.01	24.54
SCE1572_7714	50.28	179.71
SCE1572_2871	0	0
SCE1572_8872	35.42	16.45
SCE1572_6663	15.57	9.71
SCE1572_11473	47.58	32.06
SCE1572_4831	62.25	114.64
SCE1572_8580	202.8	88.75
SCE1572_8506	19.51	7.23
SCE1572_4740	52.47	80.13
SCE1572_9775	0	0
SCE1572_4067	41.75	50.24
SCE1572_10732	62.5	32.02
SCE1572_7508	40.78	15.18
SCE1572_9665	22.89	91.8
SCE1572_10647	23.94	65.3
SCE1572_5069	24.24	20.97
SCE1572_2406	31.03	229.73
SCE1572_10074	154.06	0
SCE1572_2825	17.49	14.04
SCE1572_9558	0	0
SCE1572_6182	26.77	8.36
SCE1572_156	62.12	191.33
SCE1572_1825	14.59	9.16
SCE1572_7739	6.41	0
SCE1572_4260	34.84	33.13
SCE1572_5621	65.42	27.39
SCE1572_1774	27.47	7.93
SCE1572_2860	42.22	13.86
SCE1572_7088	38.78	14.68
SCE1572_6424	0	0

SCE1572_6175	53.09	88.47
SCE1572_6616	25.31	10.05
SCE1572_8736	21.55	16.67
SCE1572_2720	90.17	20.54
SCE1572_2055	19.16	25.78
SCE1572_6778	260.44	111.83
SCE1572_9517	62.25	103.44
SCE1572_1616	9.88	40.24
SCE1572_7100	10.71	28.37
SCE1572_449	19.28	16.01
SCE1572_4443	28.43	108.34
SCE1572_9766	27.67	69.26
SCE1572_6644	2.53	0
SCE1572_331	55.57	157.72
SCE1572_10569	122.34	211.37
SCE1572_4335	42.39	23.35
SCE1572_4796	148.17	77.41
SCE1572_10791	56.95	78.73
SCE1572_2679	24.19	638.97
SCE1572_4217	32.49	45.79
SCE1572_9525	9.05	25.42
SCE1572_9072	31.5	47.6
SCE1572_41	59.81	45.75
SCE1572_1128	30.04	26.07
SCE1572_1523	32.59	11.27
SCE1572_5212	40.15	81.38
SCE1572_9882	74.59	60.5
SCE1572_3480	44.13	50.01
SCE1572_9973	62.4	239.05
SCE1572_11074	7	0
SCE1572_6681	13.61	74.57
SCE1572_1122	71.3	15.05
SCE1572_5346	3.42	5.49
SCE1572_11532	0	0
SCE1572_4573	20.67	15.55
SCE1572_9154	39.34	138.92
SCE1572_2707	31.17	10.14
SCE1572_10551	29.48	11.26
SCE1572_8774	129.51	297.39
SCE1572_1851	59.42	36.99
SCE1572_8666	19.11	1.48
SCE1572_2665	58.14	439.32
SCE1572_5604	41.09	48.86
SCE1572_8623	72.09	228.59
SCE1572_8259	125.04	368.07
SCE1572_861	49.98	743.36
SCE1572_2416	114.57	137.19
SCE1572_8975	14.66	9.07

SCE1572_7268	37.14	76.18
SCE1572_1614	46.92	126
SCE1572_7725	33.69	31.81
SCE1572_2596	82.69	94.85
SCE1572_9387	73.1	152.74
SCE1572_7112	0	0
SCE1572_6111	18.63	51.03
SCE1572_167	73	21.63
SCE1572_2678	20.59	272.57
SCE1572_6643	172.05	176.15
SCE1572_6637	35	40.08
SCE1572_8288	13.24	38.69
SCE1572_2929	0	0
SCE1572_3951	32.87	44.9
SCE1572_9480	34.17	41.12
SCE1572_7250	44.21	17.69
SCE1572_4312	41.27	14.49
SCE1572_9416	109.5	2275.13
SCE1572_3621	20.91	3.15
SCE1572_2024	14.16	5.38
SCE1572_5793	127.43	220.52
SCE1572_6115	71.31	20.19
SCE1572_9350	114.93	509.88
SCE1572_5673	25.57	31.48
SCE1572_2856	23.43	8.85
SCE1572_3499	35.48	49.17
SCE1572_2469	10.69	7.45
SCE1572_804	0	0
SCE1572_10588	13.18	3.53
SCE1572_4913	19.87	10.07
SCE1572_1784	29.08	10
SCE1572_9077	33.97	16.22
SCE1572_8235	30.32	44.6
SCE1572_10176	126.83	77.2
SCE1572_4817	164.5	1485.93
SCE1572_10596	51.71	19.8
SCE1572_6146	59.76	35.96
SCE1572_1779	52.71	72.04
SCE1572_7045	24.79	124.32
SCE1572_3412	25.73	85.37
SCE1572_3708	0	0
SCE1572_11508	20.67	9.22
SCE1572_11472	8.53	0
SCE1572_5983	6.67	8.76
SCE1572_7511	46.69	23.17
SCE1572_8462	67.01	667.34
SCE1572_5626	11.52	4.38
SCE1572_1916	7	0

SCE1572_10664	50.77	369.88
SCE1572_3580	37.46	16.33
SCE1572_2405	29.55	239.61
SCE1572_10352	28.24	19.87
SCE1572_6056	148.87	465.05
SCE1572_1248	82.91	181.78
SCE1572_9995	41.57	21.34
SCE1572_564	59.87	1338.82
SCE1572_797	97.04	157.99
SCE1572_7026	43.62	18.83
SCE1572_8144	35.05	7.85
SCE1572_3413	50.09	58.65
SCE1572_8743	4.33	0
SCE1572_2098	46.65	110.2
SCE1572_4455	122.5	126.36
SCE1572_9751	39.14	24.73
SCE1572_11358	45.73	28
SCE1572_9520	51	147.35
SCE1572_9879	32.88	63.02
SCE1572_2996	18.1	9.14
SCE1572_5082	82.81	159.75
SCE1572_9776	19.99	28.07
SCE1572_3796	8.93	1.57
SCE1572_6769	324.79	4879.58
SCE1572_2572	50.28	17.16
SCE1572_8883	56.86	25.78
SCE1572_4798	60.35	683.79
SCE1572_10929	55.24	39.6
SCE1572_179	15.3	11.54
SCE1572_10389	36.73	49.41
SCE1572_4016	112.63	93.84
SCE1572_6138	32.2	48.44
SCE1572_2731	61.2	58.32
SCE1572_2712	267.07	865.74
SCE1572_10072	402.87	1115.62
SCE1572_10194	27	14.04
SCE1572_4329	22.28	24.48
SCE1572_6407	17.14	55.59
SCE1572_7776	47.68	245
SCE1572_9769	11.04	19.33
SCE1572_6501	35.11	19.21
SCE1572_10399	58.06	70.72
SCE1572_10992	6.42	12.37
SCE1572_9398	28.91	71.13
SCE1572_10415	18.83	38.53
SCE1572_5310	22.66	33.56
SCE1572_1335	26.49	10.99
SCE1572_4267	0	0

SCE1572_2142	34.44	9.4
SCE1572_6177	51.47	68.68
SCE1572_1014	45.35	32.58
SCE1572_9544	65.8	18.93
SCE1572_9324	644.51	1002.74
SCE1572_4324	30.16	21.58
SCE1572_26	39.32	58.14
SCE1572_2978	21.42	3.97
SCE1572_9034	27.09	18.04
SCE1572_10100	47.83	26.94
SCE1572_11460	187.27	464.54
SCE1572_1322	10.85	3.07
SCE1572_10149	27.36	7.12
SCE1572_5118	54.15	161.61
SCE1572_10916	39.01	31.46
SCE1572_988	33.46	85.51
SCE1572_8428	21.96	17.05
SCE1572_3011	37.05	8.76
SCE1572_484	38.08	24.84
SCE1572_7809	0	0
SCE1572_7723	40.86	53.06
SCE1572_10305	43.32	29.41
SCE1572_6737	116.01	728.37
SCE1572_6717	86.92	254.82
SCE1572_544	53.51	52.13
SCE1572_6710	109.15	91.89
SCE1572_11584	31.47	16.75
SCE1572_9489	39.08	26.52
SCE1572_11244	25.17	57.62
SCE1572_10290	25.87	13.84
SCE1572_5615	51.04	12.16
SCE1572_10069	136.01	21.47
SCE1572_10708	47.6	29.7
SCE1572_6	18.37	24.81
SCE1572_6441	11.66	0
SCE1572_7982	33.35	20.81
SCE1572_9735	92.13	161.08
SCE1572_3511	39.47	65.84
SCE1572_9452	153.4	84.43
SCE1572_9305	26.79	48.02
SCE1572_2708	109.44	27.68
SCE1572_2915	35.69	10.9
SCE1572_3956	34.63	12.04
SCE1572_766	13.02	3.69
SCE1572_1106	38.21	7.83
SCE1572_3949	27.24	142.37
SCE1572_1396	15.67	187.33
SCE1572_3068	46.78	108.53

SCE1572_4440	55.86	32.57
SCE1572_4413	9.7	0
SCE1572_9837	106.5	238.65
SCE1572_102	21.79	7.98
SCE1572_10925	0	0
SCE1572_2380	21.19	19.12
SCE1572_4904	28.93	402.53
SCE1572_4333	7	3.74
SCE1572_11140	30.63	24.99
SCE1572_6648	4.56	0
SCE1572_8330	33.55	210.2
SCE1572_8223	10.01	13.77
SCE1572_5191	51.14	182.94
SCE1572_6614	77.79	42.03
SCE1572_11443	117.02	78.37
SCE1572_1947	71.48	45.62
SCE1572_3059	10.46	1.8
SCE1572_3271	40.92	443.79
SCE1572_1838	81.58	401.32
SCE1572_8965	37.9	66.26
SCE1572_691	13.39	4.2
SCE1572_10574	105.75	129.87
SCE1572_11233	109.92	290.11
SCE1572_3598	75.57	23.52
SCE1572_8510	37.47	16.78
SCE1572_4747	91.06	30.41
SCE1572_9693	44.46	856.97
SCE1572_4081	16.68	22.81
SCE1572_9482	15.26	29.39
SCE1572_1078	31.57	19.44
SCE1572_853	42.33	199.05
SCE1572_7931	64.56	54.14
SCE1572_7300	125.13	57.16
SCE1572_6196	16.72	6.94
SCE1572_3634	31.17	17.8
SCE1572_1994	47.28	17.4
SCE1572_7958	99.73	292.72
SCE1572_6350	35.06	43.24
SCE1572_9487	36.18	55.98
SCE1572_10210	104.24	19.77
SCE1572_10728	26.44	63.63
SCE1572_3321	54.31	98.48
SCE1572_3552	53.07	20.85
SCE1572_10375	67.31	17.05
SCE1572_6785	0	0
SCE1572_6347	38.96	42.81
SCE1572_6126	21.9	95.11
SCE1572_9117	59.41	34.14

SCE1572_1992	0	0
SCE1572_5265	0	0
SCE1572_8832	9.72	9.36
SCE1572_10721	92.9	41.14
SCE1572_1452	0	0
SCE1572_9722	576.27	5983.35
SCE1572_7961	32.16	0
SCE1572_10299	28.4	89.68
SCE1572_9069	45.43	250.12
SCE1572_7864	57.55	72.98
SCE1572_1776	23.81	12.06
SCE1572_3052	35.8	10.14
SCE1572_10792	41.35	65.02
SCE1572_8700	35.16	27.5
SCE1572_1025	44.44	1113.64
SCE1572_7309	54.26	17.29
SCE1572_2283	21.02	10.84
SCE1572_2775	39.47	118.76
SCE1572_5505	1.6	7.68
SCE1572_7166	27.42	7.95
SCE1572_3093	159.48	129.75
SCE1572_680	11.06	22.81
SCE1572_5535	39.3	12.43
SCE1572_3846	26.99	6.91
SCE1572_4351	34.95	11.65
SCE1572_11084	15.07	47.6
SCE1572_1219	15.79	12.35
SCE1572_209	9.9	5.62
SCE1572_2003	124.3	56.35
SCE1572_219	29.11	105.1
SCE1572_2523	2.57	0
SCE1572_5317	5.62	0
SCE1572_8583	85.65	35.05
SCE1572_8252	36.54	107.08
SCE1572_5936	18.07	12.66
SCE1572_128	9.48	0
SCE1572_7787	80.27	0
SCE1572_3486	84.07	42.11
SCE1572_1137	76.39	35.87
SCE1572_8272	15.16	22.59
SCE1572_9391	40.34	25.11
SCE1572_6400	30.56	111.46
SCE1572_4145	50.79	155.38
SCE1572_3398	178.37	42.93
SCE1572_9008	9.83	3.64
SCE1572_9888	35.95	20.78
SCE1572_7155	26.49	13.42
SCE1572_8527	20.44	0

SCE1572_7583	190.36	1212.19
SCE1572_6741	61.48	29.55
SCE1572_9788	74.01	64.78
SCE1572_7745	1308.39	6305.05
SCE1572_7322	18.76	3.66
SCE1572_5966	14.84	8.69
SCE1572_4513	3.79	4.56
SCE1572_6135	36.4	66.35
SCE1572_8735	0	0
SCE1572_223	16.28	3.67
SCE1572_6921	38.33	32.44
SCE1572_11078	22.01	11.77
SCE1572_3316	43.36	44.44
SCE1572_1866	17.71	17.05
SCE1572_4730	27.96	16.53
SCE1572_8279	26.71	8.29
SCE1572_7474	102.54	221.48
SCE1572_9979	51.69	20.14
SCE1572_3714	80.07	153.76
SCE1572_908	12.09	6.72
SCE1572_1630	109.82	44.45
SCE1572_6032	34.24	58.86
SCE1572_11080	34.51	400.52
SCE1572_8535	65.55	40.95
SCE1572_8293	20.28	12.2
SCE1572_912	47.03	144.23
SCE1572_1313	836.9	3508.26
SCE1572_998	39.11	70.89
SCE1572_8054	11.03	6.63
SCE1572_2492	61.54	35.58
SCE1572_10933	42.12	0
SCE1572_3046	12.2	2.26
SCE1572_11451	13.86	7.85
SCE1572_3223	9.68	2.59
SCE1572_4307	29.5	25.96
SCE1572_7788	0	0
SCE1572_4699	24.64	11.4
SCE1572_10343	21.31	121.25
SCE1572_6041	85.38	133.48
SCE1572_5665	15.78	8.44
SCE1572_897	68.14	32.8
SCE1572_9027	35.79	59.84
SCE1572_4286	0	0
SCE1572_10669	77.23	332.12
SCE1572_2546	48.52	26.27
SCE1572_2671	111.35	205.52
SCE1572_7345	18.74	4.1
SCE1572_10565	64.31	27.21

SCE1572_3559	26.04	31.34
SCE1572_8242	51.6	198.7
SCE1572_1504	52.53	73.62
SCE1572_4861	10	4.89
SCE1572_5771	3.3	0
SCE1572_314	26.28	10.95
SCE1572_2324	19.72	38.57
SCE1572_6762	0	0
SCE1572_890	20.05	39.21
SCE1572_10301	30.19	12.78
SCE1572_11388	297.79	529.61
SCE1572_6519	28.64	7.66
SCE1572_2069	42.5	18.5
SCE1572_2746	25.75	2.3
SCE1572_11196	47.72	46.83
SCE1572_1821	13.92	17.63
SCE1572_2114	194.39	176.14
SCE1572_9211	9.36	15.03
SCE1572_11349	0	0
SCE1572_2554	27.16	12.06
SCE1572_3858	22.18	64.27
SCE1572_9070	27.78	22.05
SCE1572_10187	11.82	5.02
SCE1572_5923	61.9	76.38
SCE1572_5708	39.78	34.19
SCE1572_9711	54.53	220.56
SCE1572_5421	22.3	119.4
SCE1572_597	91.92	285.9
SCE1572_10639	43.27	259.97
SCE1572_2583	13.78	3.32
SCE1572_6089	7.82	47.65
SCE1572_9597	35.03	1735.56
SCE1572_2134	0	0
SCE1572_7261	0	0
SCE1572_2060	18.95	22.81
SCE1572_5979	12.8	37.3
SCE1572_1770	44.12	21.24
SCE1572_9335	33.44	150.91
SCE1572_4256	35.74	216.52
SCE1572_4992	34.99	116.29
SCE1572_10969	74.48	150.81
SCE1572_9281	147.21	553.35
SCE1572_8675	34.31	26.64
SCE1572_2687	28.22	30.19
SCE1572_689	12.78	19.57
SCE1572_4192	25.41	68.42
SCE1572_9689	137.05	240.63
SCE1572_4611	16.26	10.58

SCE1572_7971	6.05	8.32
SCE1572_7479	45.69	38.09
SCE1572_1071	30.43	13.65
SCE1572_6228	67.7	25.53
SCE1572_9172	38.53	14.11
SCE1572_8447	20.34	0
SCE1572_7751	42.47	20.56
SCE1572_3231	31.94	115.87
SCE1572_319	40.18	14.4
SCE1572_4349	40.46	19.29
SCE1572_7623	33.04	45.75
SCE1572_11025	38.84	64.72
SCE1572_4122	35.73	34.87
SCE1572_9586	33.72	61.03
SCE1572_6002	17.33	96.97
SCE1572_1410	41.19	20.11
SCE1572_372	32.54	160.08
SCE1572_10142	31.34	64.4
SCE1572_10883	25.49	280.96
SCE1572_9053	66.45	26.52
SCE1572_1112	7.15	8.61
SCE1572_6833	18.4	19.69
SCE1572_8752	34.07	12.3
SCE1572_4129	63.34	191.15
SCE1572_8594	17.38	29.13
SCE1572_2888	29.29	13.17
SCE1572_8728	48.48	22.28
SCE1572_8069	24.91	3.07
SCE1572_10323	26.7	53.94
SCE1572_9265	31.38	43.2
SCE1572_8305	35.08	22.62
SCE1572_10479	56.47	57.72
SCE1572_6326	18.01	10.84
SCE1572_3686	19.05	0
SCE1572_5835	475.64	703.96
SCE1572_4669	72.81	14.43
SCE1572_4828	84.83	34.75
SCE1572_262	65.06	25.87
SCE1572_8142	14.95	2.57
SCE1572_5288	18.73	15.62
SCE1572_9477	0	0
SCE1572_2442	83.58	458.49
SCE1572_8581	101.3	25.59
SCE1572_9227	20.48	23.67
SCE1572_734	25.08	11.79
SCE1572_8091	6.65	0
SCE1572_11486	35.99	64.51
SCE1572_4043	51.07	305.37

SCE1572_8393	44.13	38.28
SCE1572_2342	38.19	139.28
SCE1572_3732	16.55	15.93
SCE1572_3772	59.44	78.78
SCE1572_6517	12.57	62.4
SCE1572_3354	40.9	42.76
SCE1572_4528	0	0
SCE1572_11181	35.35	54
SCE1572_3077	38.04	17.11
SCE1572_8553	32.3	420.45
SCE1572_11102	44.48	84.44
SCE1572_7609	32.75	43.79
SCE1572_4553	17.6	1.63
SCE1572_5388	106.6	443.8
SCE1572_8283	17	3.23
SCE1572_661	0	0
SCE1572_8098	16.29	678.57
SCE1572_3301	22.34	20.59
SCE1572_1983	0	0
SCE1572_6855	17.07	38.67
SCE1572_7914	28.05	17.61
SCE1572_1145	17.05	4.32
SCE1572_3147	33.5	4.24
SCE1572_7329	19.17	2.1
SCE1572_6250	0	0
SCE1572_7315	12.22	6.92
SCE1572_7938	20.14	62.72
SCE1572_11420	39.52	39.08
SCE1572_9869	120.41	540.51
SCE1572_1089	44.64	30.19
SCE1572_7606	61.39	51.43
SCE1572_6451	37.04	18.6
SCE1572_4199	16.44	46.16
SCE1572_4800	52.77	1243.24
SCE1572_9860	48.93	34.75
SCE1572_6247	14.41	9.08
SCE1572_3133	71.39	44.77
SCE1572_8456	40.08	434.65
SCE1572_11417	50.98	41.43
SCE1572_1204	0	0
SCE1572_1030	37.11	188.84
SCE1572_1146	139.39	94.17
SCE1572_9504	12.36	3.22
SCE1572_11484	8.15	0
SCE1572_8195	52.34	48.99
SCE1572_1921	0	0
SCE1572_1699	43.75	111.35
SCE1572_3245	35.72	26.52

SCE1572_3852	38.61	67.58
SCE1572_10844	13.33	8.02
SCE1572_4227	23.15	26.19
SCE1572_10073	161.95	682.85
SCE1572_4666	37.33	5.5
SCE1572_8839	22.46	0
SCE1572_8366	39.51	8.99
SCE1572_7833	43.72	64.92
SCE1572_7436	6.38	4.72
SCE1572_8213	37.11	49.23
SCE1572_9311	81.67	371.97
SCE1572_7567	17.94	8.22
SCE1572_1082	20.52	3.61
SCE1572_5537	38.52	26.49
SCE1572_6535	30.78	22.12
SCE1572_934	42.58	177.96
SCE1572_11564	6.47	5.19
SCE1572_11263	22.61	53.35
SCE1572_11020	9.72	6.93
SCE1572_2533	19.22	336.65
SCE1572_5489	0	0
SCE1572_4809	56.5	52.24
SCE1572_33	408.2	2198.17
SCE1572_6300	75.06	277.27
SCE1572_9607	14.86	4.77
SCE1572_11524	23.42	11.87
SCE1572_10753	35.33	7.79
SCE1572_115	31.15	11.66
SCE1572_6102	28.11	8.2
SCE1572_6410	0	0
SCE1572_8792	46.54	56.01
SCE1572_610	44.78	72.37
SCE1572_1973	0	0
SCE1572_2828	0	0
SCE1572_136	36.48	11.64
SCE1572_3375	20.24	67.08
SCE1572_5690	26.65	41.34
SCE1572_2172	58.62	4.87
SCE1572_6082	60.92	9.77
SCE1572_5041	126.86	441.26
SCE1572_10895	93.23	179.06
SCE1572_5325	27.83	33.49
SCE1572_9645	74.04	1005.66
SCE1572_7780	14.89	6.52
SCE1572_1037	2.61	0
SCE1572_1903	90.24	29.03
SCE1572_5816	21.1	10.33
SCE1572_7143	31.59	9.68

SCE1572_11435	39.94	30.86
SCE1572_2732	45.87	90.82
SCE1572_11223	21.66	13.9
SCE1572_4830	34.99	52.93
SCE1572_452	9.7	67.15
SCE1572_1556	43.7	70.12
SCE1572_159	39.1	70.43
SCE1572_4894	55.32	21.37
SCE1572_4109	19.42	8.09
SCE1572_5852	112	118.35
SCE1572_6473	124.78	248.31
SCE1572_3648	28.55	137.42
SCE1572_1719	68.57	89.86
SCE1572_2205	20.31	202.01
SCE1572_606	60.38	108.44
SCE1572_2179	22.71	68.75
SCE1572_4041	123.12	1594.3
SCE1572_2563	34.19	17.33
SCE1572_12	94.23	335.78
SCE1572_1252	23.77	10.44
SCE1572_1460	15.47	11.17
SCE1572_10773	22.92	27.58
SCE1572_2216	40.26	216.44
SCE1572_2645	5.27	0
SCE1572_147	21.45	19.8
SCE1572_3844	52.82	293.99
SCE1572_4030	182.21	422.31
SCE1572_1461	44.74	25.03
SCE1572_2588	27.24	10.6
SCE1572_7646	37.47	51.7
SCE1572_725	24.48	23.78
SCE1572_4884	12.09	27.77
SCE1572_7828	45.94	118.88
SCE1572_6491	8.92	0
SCE1572_4037	11.21	17.04
SCE1572_1414	57.34	21.05
SCE1572_4502	96.71	39.45
SCE1572_1298	153.66	64.11
SCE1572_1705	82.83	97.96
SCE1572_664	84.12	279.17
SCE1572_3423	8.58	0
SCE1572_3008	50.54	27.31
SCE1572_3034	69.22	174.53
SCE1572_3823	24.16	44.11
SCE1572_10890	45.75	34.6
SCE1572_1498	88.95	19.48
SCE1572_7798	9.02	11.99
SCE1572_2603	20.29	2.76

SCE1572_2181	45.41	29.64
SCE1572_2079	19.44	13.1
SCE1572_4839	59.3	126.51
SCE1572_10006	17.84	21.47
SCE1572_9960	24.17	12.21
SCE1572_6292	40.86	24.59
SCE1572_1231	44.07	182.13
SCE1572_617	175.56	775.94
SCE1572_6587	44.65	29.44
SCE1572_3757	38.97	12.49
SCE1572_1551	25	10.68
SCE1572_5046	0	0
SCE1572_6159	8.58	0.32
SCE1572_1801	33.23	284.94
SCE1572_4739	139.32	32.05
SCE1572_6496	25.46	10.1
SCE1572_5907	1111.85	1060.98
SCE1572_7900	40.31	28.96
SCE1572_3864	8.13	3.15
SCE1572_6811	89.24	62.46
SCE1572_10812	21.86	9.19
SCE1572_10554	43.19	15.91
SCE1572_1799	20.58	234.42
SCE1572_2241	35.52	24.17
SCE1572_1585	63.17	330.93
SCE1572_10534	55.38	253.48
SCE1572_8384	17.12	7.85
SCE1572_1270	51.85	185.9
SCE1572_2499	59.91	29.43
SCE1572_8329	36.79	24.28
SCE1572_1592	83.89	97.58
SCE1572_3563	74.82	43.33
SCE1572_9465	6.69	0
SCE1572_3991	199.47	1821.29
SCE1572_2879	66.04	125.61
SCE1572_3182	51.7	247.67
SCE1572_3568	35.27	9.23
SCE1572_553	71.07	117.84
SCE1572_1365	104.39	2627.74
SCE1572_4509	42	113.42
SCE1572_10424	64.32	24.33
SCE1572_5073	58.24	596.62
SCE1572_4429	24.78	47.46
SCE1572_9101	23.73	59.68
SCE1572_9859	46.55	44.01
SCE1572_6936	8.78	4.6
SCE1572_10057	56.86	47.58
SCE1572_9773	28.93	30.85

SCE1572_5078	43.66	291.36
SCE1572_10819	34.82	66.9
SCE1572_7599	1892.17	4688.52
SCE1572_2049	27.47	69.93
SCE1572_8939	27.34	340.99
SCE1572_3985	42.44	127.92
SCE1572_334	27.57	62.2
SCE1572_1884	30.16	74.55
SCE1572_10746	10.55	3.17
SCE1572_6106	20.11	6.54
SCE1572_5105	120.08	1460.3
SCE1572_11334	126.22	277.86
SCE1572_11412	59.29	209.36
SCE1572_7394	16.02	1.71
SCE1572_13	50.09	30.41
SCE1572_9423	41.65	56.14
SCE1572_10803	17.2	10.35
SCE1572_10429	44.26	15.87
SCE1572_1812	31.22	14.57
SCE1572_11576	25.89	51.18
SCE1572_2607	28.67	18.29
SCE1572_1525	86.64	428.42
SCE1572_8651	15.05	2.59
SCE1572_5999	34.51	315.85
SCE1572_11259	57.26	556.62
SCE1572_4917	10.63	3.34
SCE1572_10130	24.67	20.11
SCE1572_4485	25.48	110.4
SCE1572_1530	0	0
SCE1572_2805	20.44	20.83
SCE1572_428	36.28	92.53
SCE1572_8471	160.93	458.62
SCE1572_870	12.88	33.39
SCE1572_4449	2.23	0
SCE1572_11041	64.51	78.1
SCE1572_3616	35.63	17.95
SCE1572_3464	57.35	27.32
SCE1572_5397	31.36	15.98
SCE1572_6024	76.28	73.44
SCE1572_3335	27.97	61.28
SCE1572_5644	25.6	2.37
SCE1572_11121	53.25	26.07
SCE1572_2195	79.64	81.09
SCE1572_4103	39.9	16.01
SCE1572_2973	2.97	0
SCE1572_785	39.04	48.35
SCE1572_5699	19.76	96.04
SCE1572_6767	16.68	7.3

SCE1572_4685	59.58	80.18
SCE1572_7768	97.11	93.97
SCE1572_1465	28.9	13.43
SCE1572_9093	9.23	1.06
SCE1572_2489	6.93	0
SCE1572_4170	0	0
SCE1572_5381	27.44	9.91
SCE1572_6448	95.43	44.71
SCE1572_9476	15.58	4.33
SCE1572_10901	16.22	25.37
SCE1572_4534	29.13	30.56
SCE1572_2834	336.38	3757.74
SCE1572_8658	60.34	352.21
SCE1572_8707	54.66	43.44
SCE1572_7018	31.54	9.8
SCE1572_5990	77.92	55.92
SCE1572_9156	56.53	144.84
SCE1572_2959	69.89	31.06
SCE1572_7094	0	0
SCE1572_11529	33.13	10.27
SCE1572_2226	46.85	16.47
SCE1572_5235	31.76	322.4
SCE1572_7076	18.29	20.69
SCE1572_2296	48.09	130.8
SCE1572_9566	0	0
SCE1572_5890	29.58	21.73
SCE1572_4942	15.96	90.79
SCE1572_4978	50.4	720.59
SCE1572_1441	39.7	15.05
SCE1572_10905	159.95	232.59
SCE1572_11109	92.91	105.64
SCE1572_10066	180.66	847.51
SCE1572_11275	80.21	403.53
SCE1572_7592	32.73	27.07
SCE1572_7821	33.22	187.55
SCE1572_1492	52.61	21.5
SCE1572_8871	67.76	52.48
SCE1572_8300	64.64	8.49
SCE1572_10641	17.01	19.88
SCE1572_1763	47.51	3.4
SCE1572_1797	45.27	35.48
SCE1572_2559	40.95	25.3
SCE1572_4138	37.02	12.73
SCE1572_4270	56.02	20.52
SCE1572_9125	12.88	10.73
SCE1572_11171	30.59	3.2
SCE1572_7791	14.18	2.35
SCE1572_927	19.65	7.72

SCE1572_10962	100.86	37.59
SCE1572_9003	186.76	775.76
SCE1572_9136	19.04	5.09
SCE1572_6706	565.79	1973.7
SCE1572_292	10.11	82.11
SCE1572_10485	55.9	257.48
SCE1572_5093	97.59	1157.68
SCE1572_1272	7.71	12.37
SCE1572_5100	27.26	47.15
SCE1572_9178	162.76	456.15
SCE1572_11063	26.34	19.73
SCE1572_305	42.51	22.17
SCE1572_2112	2.45	0
SCE1572_10394	0	0
SCE1572_10835	89.66	27.88
SCE1572_10624	44.59	136.31
SCE1572_9740	77.7	403.88
SCE1572_7372	16.93	22.49
SCE1572_1677	3.72	2.24
SCE1572_9363	26.03	65.78
SCE1572_8905	9.1	3.65
SCE1572_11129	54.25	62.61
SCE1572_5860	0	0
SCE1572_5283	33.08	18.58
SCE1572_4071	31.13	140.17
SCE1572_3936	0	0
SCE1572_7455	36.93	240.94
SCE1572_6725	34.73	57.87
SCE1572_1844	31.93	19.36
SCE1572_2505	13.98	9.06
SCE1572_6563	30.55	32.08
SCE1572_1296	0	0
SCE1572_652	560.76	2315.25
SCE1572_6730	356.06	5485.43
SCE1572_7453	50.59	368.95
SCE1572_1672	15.52	16.19
SCE1572_5689	30.03	14.22
SCE1572_8439	35.93	29.53
SCE1572_1736	58.43	28.48
SCE1572_6290	0	0
SCE1572_79	49.78	28.59
SCE1572_3291	14.06	16.62
SCE1572_4084	36.95	10.73
SCE1572_5366	33.95	542.12
SCE1572_5844	30.96	24.84
SCE1572_6293	54.09	60.82
SCE1572_4200	37.03	107.19
SCE1572_4776	69.19	363.72

SCE1572_2158	0	0
SCE1572_6797	49	135.73
SCE1572_1960	59.75	12.16
SCE1572_10613	13.27	12.29
SCE1572_8382	15.41	2.97
SCE1572_5135	49.93	389.99
SCE1572_2011	27.01	1.14
SCE1572_10528	8.81	0
SCE1572_1934	82.81	151.58
SCE1572_11207	0	0
SCE1572_1743	53.46	30.73
SCE1572_5718	21.06	26.19
SCE1572_9134	27.63	13.48
SCE1572_1625	56.22	27.37
SCE1572_1381	20.06	15.87
SCE1572_2085	24.6	22.32
SCE1572_4014	0	0
SCE1572_4560	12.13	4.87
SCE1572_4649	43.98	17.38
SCE1572_3779	15.98	13.92
SCE1572_7107	51.29	32.3
SCE1572_11562	0	0
SCE1572_3755	27.74	7.57
SCE1572_5138	0	0
SCE1572_11283	30.12	41.78
SCE1572_10088	0	0
SCE1572_2807	8.91	0
SCE1572_10266	60.85	167.57
SCE1572_9441	50.87	429.18
SCE1572_8799	7	0
SCE1572_4843	28.12	33.49
SCE1572_3612	46.78	19.67
SCE1572_1710	25	38.82
SCE1572_3363	40.16	74.96
SCE1572_7352	40.35	14.71
SCE1572_1471	0	0
SCE1572_309	37.06	11.58
SCE1572_9103	44.81	56.3
SCE1572_5305	0	0
SCE1572_1350	38.5	42.76
SCE1572_8020	43.16	23.67
SCE1572_5984	44.75	41.83
SCE1572_3079	0	0
SCE1572_9249	38.37	12.43
SCE1572_6950	11.66	0
SCE1572_7522	34.46	12.44
SCE1572_701	34.99	352.09
SCE1572_6820	22.92	5.66

SCE1572_8389	57.97	21.47
SCE1572_11293	119.89	409.55
SCE1572_5739	117.59	97.91
SCE1572_2790	16.32	7.6
SCE1572_5209	8.99	6.19
SCE1572_7219	132.43	2315.68
SCE1572_8163	30.63	17.82
SCE1572_1300	49.7	13
SCE1572_491	366.86	346.86
SCE1572_5455	26.16	8.36
SCE1572_7184	0	0
SCE1572_5233	18.76	127.91
SCE1572_8913	62.23	24.51
SCE1572_4278	65.13	39.06
SCE1572_8414	44.35	29.19
SCE1572_3238	36.47	22.77
SCE1572_8464	170.83	426.6
SCE1572_8496	39.46	14.72
SCE1572_10606	31.12	24.7
SCE1572_5404	11.49	11.06
SCE1572_744	98.21	103.67
SCE1572_10856	118.46	452.16
SCE1572_964	97.19	534.91
SCE1572_10846	15.28	12.51
SCE1572_4640	154.05	91.52
SCE1572_947	64.32	8.58
SCE1572_6924	2.86	0
SCE1572_4090	25.64	13.42
SCE1572_8405	30.76	134.86
SCE1572_7549	71.87	21.24
SCE1572_6454	81.68	88.47
SCE1572_9207	45.64	37.83
SCE1572_8087	61.51	12.8
SCE1572_3098	0	0
SCE1572_9972	72.16	340.11
SCE1572_210	30.23	10.86
SCE1572_5524	31.54	20.82
SCE1572_5357	51.99	29.1
SCE1572_5795	48.59	37.43
SCE1572_10257	31.74	27.14
SCE1572_3514	60.28	395.7
SCE1572_5887	19.56	14.39
SCE1572_8946	118.93	489.73
SCE1572_11502	18.78	1.67
SCE1572_7205	74.16	94.09
SCE1572_9694	716.09	4340.34
SCE1572_1141	15.26	8.29
SCE1572_2623	3.45	0

SCE1572_7419	13.78	3.9
SCE1572_6656	49.02	136.27
SCE1572_2270	109.58	614.95
SCE1572_3151	36.9	422.85
SCE1572_7614	20.3	15.76
SCE1572_4679	50.43	15.17
SCE1572_5206	54.75	136.12
SCE1572_6611	28.51	9.36
SCE1572_6287	44.16	72.63
SCE1572_11290	331.89	518.12
SCE1572_196	17.58	0
SCE1572_6478	34.49	13.84
SCE1572_3070	23.8	21.27
SCE1572_9515	38.89	113.44
SCE1572_10283	30.21	136.18
SCE1572_11540	25.14	11.34
SCE1572_10033	64.45	473.58
SCE1572_5802	66.89	128.8
SCE1572_9492	39.43	21.52
SCE1572_7064	42.92	18.56
SCE1572_8345	0	0
SCE1572_582	12.96	6.93
SCE1572_1346	19.7	35.92
SCE1572_4569	37.9	31.73
SCE1572_655	1052.09	1472.02
SCE1572_3021	11.74	2.35
SCE1572_5587	21.03	9.49
SCE1572_8858	50.03	42.11
SCE1572_4983	246.42	511.21
SCE1572_11173	25.58	30.03
SCE1572_6366	14.8	206.45
SCE1572_11004	24.88	41.97
SCE1572_6897	0	0
SCE1572_2818	45.99	31.63
SCE1572_9818	20.54	21.19
SCE1572_5567	45.05	148.07
SCE1572_11298	62.59	201.29
SCE1572_3929	41.83	71.1
SCE1572_831	0	0
SCE1572_772	13.46	8.64
SCE1572_5837	29.07	60.68
SCE1572_3974	13.22	53.04
SCE1572_8074	17.28	5.67
SCE1572_7618	157.08	300.81
SCE1572_6387	26.25	73.55
SCE1572_4377	44.91	29.4
SCE1572_7664	39.79	13.34
SCE1572_6885	46.78	98.99

SCE1572_5511	87.54	73.85
SCE1572_1891	53.07	7.3
SCE1572_4955	23.65	8.4
SCE1572_3104	21.46	9.89
SCE1572_10163	51.71	22.63
SCE1572_9407	23.38	32.23
SCE1572_2576	25.37	7.45
SCE1572_1057	23.31	9.8
SCE1572_3041	13.78	1.56
SCE1572_3894	16.79	7.35
SCE1572_9509	16.85	10.81
SCE1572_1729	21.81	94.98
SCE1572_10171	10.15	3.7
SCE1572_11043	31.15	25.83
SCE1572_1117	11.62	19.46
SCE1572_2373	41.14	14.14
SCE1572_188	23.15	288.44
SCE1572_6957	0	0
SCE1572_9168	29.53	17.77
SCE1572_7074	48.88	67.22
SCE1572_2983	14.41	38.85
SCE1572_6866	55.16	30.35
SCE1572_7234	61.93	60.82
SCE1572_6806	23.35	17.34
SCE1572_8920	62.19	93.8
SCE1572_8919	29.73	787.09
SCE1572_117	37.35	286.91
SCE1572_7702	48.77	16.36
SCE1572_1503	38.22	102.63
SCE1572_5774	35.56	3
SCE1572_1512	10.01	13.77
SCE1572_5065	27.14	90.1
SCE1572_3749	37.59	286.51
SCE1572_7921	2.61	0
SCE1572_11396	215.8	660.44
SCE1572_2257	53.71	43.3
SCE1572_4926	45.05	13.99
SCE1572_9141	14.23	4.72
SCE1572_6890	42.88	7.37
SCE1572_7139	0	0
SCE1572_10736	28.92	53.69
SCE1572_4587	92.51	217.45
SCE1572_473	33.33	259.54
SCE1572_9660	351.78	834.95
SCE1572_5186	37.65	1252.14
SCE1572_4194	499.81	939.36
SCE1572_8894	38.94	29.12
SCE1572_8906	70.19	67.58

SCE1572_3388	11.1	0.92
SCE1572_6857	24.32	6.83
SCE1572_11148	22.02	37.86
SCE1572_10658	1164.39	996.69
SCE1572_9615	0	0
SCE1572_10048	35.5	155.48
SCE1572_4370	27.07	14.89
SCE1572_1483	80.18	30.79
SCE1572_8118	33.13	104.59
SCE1572_11491	25.97	18.38
SCE1572_5830	41.78	22.71
SCE1572_996	55.42	27.63
SCE1572_5897	30.07	15.08
SCE1572_702	63.68	32.84
SCE1572_2960	40.03	31.44
SCE1572_7942	29.21	16.91
SCE1572_4707	17.84	37.28
SCE1572_1967	15.86	19.08
SCE1572_4676	45.48	29.47
SCE1572_815	30.32	14.79
SCE1572_3168	64.03	34.02
SCE1572_4990	98.91	670.76
SCE1572_6378	34.35	9.98
SCE1572_11371	207.4	225.23
SCE1572_1594	38.43	60.99
SCE1572_9191	23.53	18.88
SCE1572_9059	18.69	15
SCE1572_10443	22.97	6.63
SCE1572_3127	16.28	41.64
SCE1572_7996	56.42	25.54
SCE1572_6471	16.18	10.25
SCE1572_3243	43.62	22.5
SCE1572_528	46.45	164.53
SCE1572_2255	21.23	5.47
SCE1572_5711	230.03	532.5
SCE1572_5870	33.14	57.83
SCE1572_3001	19.12	8.22
SCE1572_181	28.9	16.36
SCE1572_4973	239.89	2367.1
SCE1572_9432	27.76	20.97
SCE1572_2263	128.9	807.41
SCE1572_5494	85.92	20.27
SCE1572_738	18.19	15.99
SCE1572_10712	22.68	30.66
SCE1572_10975	491.55	6726.09
SCE1572_1753	33.94	108.93
SCE1572_4250	30.72	77.07
SCE1572_5439	48.89	15.9

SCE1572_4551	32.83	5.75
SCE1572_8107	35.08	13.57
SCE1572_7499	55.33	26.64
SCE1572_2026	63.39	50.15
SCE1572_3377	48.63	25.64
SCE1572_6978	16.78	1.5
SCE1572_1855	46.69	16.53
SCE1572_3220	140.88	258.35
SCE1572_3600	66.75	52.79
SCE1572_498	49.81	25.4
SCE1572_7276	39.07	5.6
SCE1572_6901	129.47	1312.08
SCE1572_10	28.75	83.89
SCE1572_10204	2.81	0
SCE1572_3869	28.43	30.41
SCE1572_8184	2.17	0
SCE1572_434	254.32	235.43
SCE1572_5268	14.86	50.09
SCE1572_5027	26.42	212.6
SCE1572_35	15.03	65.75
SCE1572_4988	63.73	126.17
SCE1572_10524	49.21	20.81
SCE1572_6861	12.49	6.44
SCE1572_4630	71.08	20.48
SCE1572_6095	24.06	16.39
SCE1572_8115	20.18	2.49
SCE1572_8121	62.74	24.5
SCE1572_7359	7.38	4.74
SCE1572_5463	29.32	11.14
SCE1572_9340	631.12	14657.71
SCE1572_10913	71.45	230.7
SCE1572_8039	53.62	19.21
SCE1572_3651	44.81	48.91
SCE1572_7556	0	0
SCE1572_3259	42.96	142.05
SCE1572_478	18.78	20.95
SCE1572_1403	2.97	0
SCE1572_9836	92.59	30.64
SCE1572_1179	16.97	7.99
SCE1572_5228	52.64	150.1
SCE1572_9089	43.53	17.34
SCE1572_6589	118.02	30.59
SCE1572_7533	0	0
SCE1572_3383	50.89	505.08
SCE1572_4498	25.44	45.92
SCE1572_10670	11.49	0
SCE1572_6100	32.76	6.87
SCE1572_5861	38.56	0

SCE1572_7527	49.48	16.2
SCE1572_1050	26.44	14.85
SCE1572_9842	0	0
SCE1572_8036	16.85	4.51
SCE1572_10675	74.37	61.44
SCE1572_10599	25.67	3.59
SCE1572_4113	35.42	31.83
SCE1572_7859	74.4	149.6
SCE1572_8602	43.74	26.58
SCE1572_8967	23.02	74.51
SCE1572_1357	53.4	149.22
SCE1572_3544	53.75	18.37
SCE1572_4402	12.89	57.62
SCE1572_1155	41.48	30.54
SCE1572_2031	56.98	13.95
SCE1572_5019	14.71	36.61
SCE1572_5449	39.12	25.54
SCE1572_8004	9.19	3.69
SCE1572_1692	7.03	0
SCE1572_5122	14.13	131.46
SCE1572_8358	54.22	23.8
SCE1572_7223	184.53	715.64
SCE1572_3218	8.05	0
SCE1572_5223	117.44	199.84
SCE1572_8721	53.1	47.09
SCE1572_589	6.64	2.66
SCE1572_9849	37.73	38.61
SCE1572_936	18.81	1.33
SCE1572_8819	21.94	12
SCE1572_3626	33.74	10.51
SCE1572_3821	51.32	42.06
SCE1572_6371	9.19	5.53
SCE1572_7542	47.78	247.7
SCE1572_4382	16.84	3.55
SCE1572_97	20.99	11.23
SCE1572_6282	7.34	0
SCE1572_3198	12.78	139.41
SCE1572_8156	37.2	15.35
SCE1572_10159	6.74	8.11
SCE1572_2432	48.44	121.25
SCE1572_7672	6.63	0
SCE1572_9825	7.61	19.48
SCE1572_2479	12.63	43.44
SCE1572_4578	7.4	8.9
SCE1572_7152	20.17	10.3
SCE1572_10378	37.51	16.07
SCE1572_10430	54.69	43.15
SCE1572_9909	52.61	29.93

SCE1572_11367	18.38	7.74
SCE1572_1191	25.1	10.07
SCE1572_7552	10.86	0
SCE1572_6414	14	2.81
SCE1572_6544	68.97	190.32
SCE1572_9016	0	0
SCE1572_8260	83.58	340.59
SCE1572_4507	26.84	12.47
SCE1572_6240	90.69	26.46
SCE1572_2080	34.26	27.76
SCE1572_9806	50.16	74.76
SCE1572_4154	2.17	0
SCE1572_5144	0	0
SCE1572_577	0	0
SCE1572_288	20.5	83.11
SCE1572_2057	21.17	17.67
SCE1572_1605	66.48	26.01
SCE1572_5973	37.33	8.87
SCE1572_10826	0	0
SCE1572_7926	17.1	49.39
SCE1572_7883	47.38	9.77
SCE1572_10437	27.52	24.99
SCE1572_8956	31.22	0
SCE1572_7875	46.82	48.3
SCE1572_10012	34.39	110.37
SCE1572_2932	28.3	15.35
SCE1572_4964	28.33	68.19
SCE1572_6759	40.76	15.49
SCE1572_10590	54.57	23.8
SCE1572_10191	66.33	63.35
SCE1572_5542	32.62	14.81
SCE1572_7055	65.88	16.59
SCE1572_6392	55.2	100.9
SCE1572_9870	22.97	25.8
SCE1572_10136	24.83	34.6
SCE1572_5327	82.87	1921.6
SCE1572_482	34.72	21.17
SCE1572_9720	20.33	157.99
SCE1572_9262	31.04	34.48
SCE1572_8741	24.72	7.93
SCE1572_10726	12.98	3.35
SCE1572_9895	28.05	39.31
SCE1572_6782	4.48	46.74
SCE1572_9674	33.48	76.94
SCE1572_2691	109.32	201.26
SCE1572_10691	55.59	0
SCE1572_8501	2.25	0.39
SCE1572_7585	343.99	753.39

SCE1572_1457	18.82	7.55
SCE1572_6708	24.86	95.62
SCE1572_7853	68.45	219.66
SCE1572_10581	47.38	22.81
SCE1572_1097	36.52	31.96
SCE1572_3805	40.75	196.16
SCE1572_3044	15.59	0.94
SCE1572_4032	1331.03	311.14
SCE1572_5716	183.33	505.87
SCE1572_6186	3.74	0
SCE1572_6402	21.03	7.56
SCE1572_4628	1.96	0
SCE1572_5155	67.84	75.84
SCE1572_887	156.12	363.72
SCE1572_5533	40.18	16.49
SCE1572_10770	35.28	56
SCE1572_8765	51.51	22.41
SCE1572_5789	56.22	202.99
SCE1572_8547	27.13	6.72
SCE1572_2178	30.69	24.13
SCE1572_10545	24.57	15.21
SCE1572_4093	17.62	3.35
SCE1572_2797	56.76	21.81
SCE1572_2534	0	0
SCE1572_1918	39.83	30.93
SCE1572_7257	20.15	25.41
SCE1572_5513	41.51	56.48
SCE1572_2863	36.12	13.47
SCE1572_7494	35.67	56.59
SCE1572_10196	53.37	5.84
SCE1572_212	42.63	13.01
SCE1572_7129	41.45	46.38
SCE1572_2452	35.1	19.43
SCE1572_3740	44.14	17.71
SCE1572_2074	14.38	11.01
SCE1572_4627	10.19	1.97
SCE1572_9080	13.48	0
SCE1572_9555	49.51	469.19
SCE1572_7462	84.17	267.28
SCE1572_2335	37.72	385
SCE1572_502	19.06	4.17
SCE1572_2021	9.78	0
SCE1572_942	73.61	21.12
SCE1572_7024	46.97	27.58
SCE1572_10943	65.77	19.32
SCE1572_8787	29.09	122.3
SCE1572_8312	89.32	211.37
SCE1572_3964	41.59	25.74

SCE1572_5822	0	0
SCE1572_1217	7.71	0
SCE1572_5474	12.45	10.89
SCE1572_3368	106.69	370.16
SCE1572_4543	38.6	23.56
SCE1572_3089	44.51	354.88
SCE1572_8634	0	0
SCE1572_11341	40.8	17.59
SCE1572_249	0	0
SCE1572_4269	31.28	27.19
SCE1572_255	30.68	13.03
SCE1572_2894	59.53	25.7
SCE1572_5703	40.01	281.86
SCE1572_7286	49.22	214.72
SCE1572_6689	6.69	0
SCE1572_9296	43.59	108.56
SCE1572_4849	68	92.12
SCE1572_9215	16.22	13.66
SCE1572_123	15.42	0
SCE1572_6315	30.11	16.59
SCE1572_5292	26.16	376.23
SCE1572_8649	47.09	24.93
SCE1572_9463	11.66	0
SCE1572_2684	57.93	575.27
SCE1572_4601	12.01	12.04
SCE1572_9935	19.04	6.55
SCE1572_6630	19.05	645.49
SCE1572_10530	21.66	56.96
SCE1572_2636	56.29	20.42
SCE1572_8044	26.29	14.77
SCE1572_1378	37.48	17.43
SCE1572_8685	60.01	26.07
SCE1572_486	39.08	11.29
SCE1572_365	32.49	15.4
SCE1572_2302	67.31	198.19
SCE1572_121	11	11.14
SCE1572_4296	36.83	31.84
SCE1572_6971	72.45	14.38
SCE1572_3694	34.74	20.49
SCE1572_4725	54.07	55.38
SCE1572_6397	28.79	88.69
SCE1572_5241	23.48	29.06
SCE1572_10462	54.5	519.64
SCE1572_11380	11.16	96.27
SCE1572_9357	65.18	592.65
SCE1572_9527	46.96	96.88
SCE1572_8625	48.73	56.79
SCE1572_5551	41.12	12.05

SCE1572_846	61.1	91.23
SCE1572_9993	75.01	27.63
SCE1572_90	61.46	133.03
SCE1572_2350	957.45	1778.64
SCE1572_3225	17.73	10.83
SCE1572_3534	0	0
SCE1572_2545	62.24	11.52
SCE1572_410	17.45	595.95
SCE1572_9283	61.25	251.34
SCE1572_8748	6.41	1.84
SCE1572_2722	42.32	107.47
SCE1572_5560	30	18.5
SCE1572_133	80.23	143.15
SCE1572_10953	14.69	26.87
SCE1572_3674	64.31	546.64
SCE1572_7200	33.76	36.49
SCE1572_328	9.78	1.96
SCE1572_10226	45.94	12.9
SCE1572_2561	240.62	575.41
SCE1572_3145	5.69	4.56
SCE1572_9123	66.19	48.16
SCE1572_5681	155.99	80.7
SCE1572_6693	0	0
SCE1572_10637	13.07	6.29
SCE1572_8691	31.17	20.36
SCE1572_8927	9.63	5.79
SCE1572_9958	32.83	9.3
SCE1572_10833	0	0
SCE1572_1262	49.25	195.86
SCE1572_9669	29.2	106.19
SCE1572_6487	26.49	2.71
SCE1572_6995	93.56	20.11
SCE1572_69	98.45	41.07
SCE1572_3623	81.57	18.48
SCE1572_5392	74.44	59.28
SCE1572_9704	50.54	76.96
SCE1572_7443	27.32	19.73
SCE1572_6913	50.4	14.51
SCE1572_2264	43	727.12
SCE1572_5908	133.52	331.66
SCE1572_9749	54.46	79.72
SCE1572_8709	17.02	7.45
SCE1572_11324	79.65	1121.67
SCE1572_4344	7.46	0
SCE1572_4460	26.04	11.06
SCE1572_5200	24.34	17.41
SCE1572_9011	26.17	33.34
SCE1572_388	42.71	43.69

SCE1572_5274	29.16	18.71
SCE1572_1817	108.59	98.63
SCE1572_5745	20.49	167.67
SCE1572_4712	67.74	55.29
SCE1572_6918	49.08	65.63
SCE1572_3283	62.73	21.67
SCE1572_6264	47.59	9.45
SCE1572_6525	37.64	30.2
SCE1572_8486	46.12	16.61
SCE1572_11462	107.87	186.07
SCE1572_7570	12.26	18.63
SCE1572_3874	49.67	57.41
SCE1572_8016	255.71	49.02
SCE1572_3149	25.14	22.09
SCE1572_4682	53.67	12.92
SCE1572_242	31.43	45.24
SCE1572_8810	73.26	26.94
SCE1572_7272	65.54	37.67
SCE1572_8240	14.32	10.7
SCE1572_8561	32.17	30.49
SCE1572_1914	52.11	30.48
SCE1572_2516	30.8	19.01
SCE1572_5258	6.89	0
SCE1572_8204	2.61	0
SCE1572_4438	16.86	8.44
SCE1572_5809	20.34	25.66
SCE1572_9378	0	0
SCE1572_4764	18.85	12.55
SCE1572_3913	53.88	138.17
SCE1572_5323	35.56	51.81
SCE1572_8400	25.11	50.36
SCE1572_2095	34.57	35.09
SCE1572_5652	27.76	317.2
SCE1572_2594	40.34	43.38
SCE1572_8568	9.96	4.37
SCE1572_1872	18.04	92.18
SCE1572_4160	25.81	27.18
SCE1572_62	29.99	0
SCE1572_7837	70.64	62.2
SCE1572_2926	14.13	4.53
SCE1572_6074	85.22	317.18
SCE1572_6508	1.97	0
SCE1572_1283	0	0
SCE1572_4167	16.91	10.5
SCE1572_4476	18.29	17.38
SCE1572_2711	60.26	177.38
SCE1572_6835	26.3	260.66
SCE1572_5628	36.57	10.73

SCE1572_6987	21.13	5.3
SCE1572_10093	436.13	1265.97
SCE1572_1950	16.07	16.73
SCE1572_9931	50.54	207.05
SCE1572_70	84.05	45.53
SCE1572_8973	11.18	17.94
SCE1572_9579	70.87	27.18
SCE1572_892	0	0
SCE1572_9037	42.13	77.59
SCE1572_10413	3.03	0
SCE1572_612	36.57	232.08
SCE1572_10019	47.47	81.49
SCE1572_1281	40.4	10.1
SCE1572_5173	13.07	0
SCE1572_10262	31.51	20.52
SCE1572_2511	70.89	360.18
SCE1572_5595	0	0
SCE1572_10001	14.52	5.14
SCE1572_3831	22.9	28.66
SCE1572_9877	0	0
SCE1572_8805	24.07	7.72
SCE1572_6141	36.76	19.9
SCE1572_825	52.28	16.52
SCE1572_880	216.7	841.12
SCE1572_1225	19.46	8.07
SCE1572_9901	1.67	0
SCE1572_8551	56	59.6
SCE1572_3786	203.86	303.99
SCE1572_4697	0	0
SCE1572_7890	662.62	28158.49
SCE1572_8891	109.16	46.04
SCE1572_5591	37.38	10.1
SCE1572_9240	0	0
SCE1572_10866	13.91	13.39
SCE1572_2877	132.88	229.61
SCE1572_4655	0	0
SCE1572_4186	22.89	16.63
SCE1572_8825	35.91	48.02
SCE1572_5526	25.66	23.39
SCE1572_11054	10.73	7.5
SCE1572_2167	69.34	19.67
SCE1572_7503	47.73	64.2
SCE1572_9629	30.06	10.34
SCE1572_8844	0	0
SCE1572_7384	203.37	160.5
SCE1572_3987	122.93	3866.2
SCE1572_11577	15.98	5.98
SCE1572_8317	15.25	92.34

SCE1572_10787	41.35	61.85
SCE1572_3263	311.97	3461.2
SCE1572_1008	55.81	30.6
SCE1572_875	93.17	72.32
SCE1572_5096	74.69	86.76
SCE1572_5943	34.63	11.91
SCE1572_710	118.4	107.74
SCE1572_2802	32.82	26.86
SCE1572_5378	49.12	11.56
SCE1572_2976	22.32	3.88
SCE1572_755	17.84	10.02
SCE1572_2236	49.98	48.2
SCE1572_7813	6.45	0
SCE1572_51	52.88	16.46
SCE1572_10242	35.52	9.04
SCE1572_1388	30.95	51.86
SCE1572_6108	57.2	17.79
SCE1572_3811	30.64	10.17
SCE1572_6359	23.03	9.24
SCE1572_1890	33.45	65.63
SCE1572_3053	28.98	11.35
SCE1572_11192	18.12	15.1
SCE1572_2761	44.27	256.18
SCE1572_9706	126.35	111.5
SCE1572_10247	0	0
SCE1572_3471	7.58	0
SCE1572_976	0	0
SCE1572_761	20.05	16.48
SCE1572_7364	42.98	82.42
SCE1572_10054	54.5	269.66
SCE1572_1221	49.29	8.99
SCE1572_6311	26.09	1091.21
SCE1572_10215	2.61	0
SCE1572_959	32.96	65.23
SCE1572_1330	54.27	16.59
SCE1572_5145	18.79	22.23
SCE1572_9951	15.11	13.02
SCE1572_7085	25.99	14.99
SCE1572_2162	17.58	5.29
SCE1572_9798	21.97	0
SCE1572_11547	22.06	3.53
SCE1572_5635	102.81	74.41
SCE1572_3451	28.91	5.68
SCE1572_9499	399.18	3232.98
SCE1572_353	22.69	9.3
SCE1572_4594	60.92	53.22
SCE1572_568	15.72	111.26
SCE1572_11407	30.09	16.71

SCE1572_3137	27.47	51.89
SCE1572_855	69.64	450.88
SCE1572_11031	35.28	151.48
SCE1572_8422	105.05	844.53
SCE1572_7761	16.62	5
SCE1572_9733	155.33	65.29
SCE1572_7696	147.85	86.7
SCE1572_3235	603.78	487.46
SCE1572_4007	53.14	131.24
SCE1572_10745	32.99	24.58
SCE1572_7709	237.11	3596.25
SCE1572_4292	30.79	16.78
SCE1572_5750	20.24	2.87
SCE1572_4854	15.45	11.02
SCE1572_981	57.04	20.42
SCE1572_1808	12.04	31.62
SCE1572_9022	26.08	43.93
SCE1572_379	25.38	115.67
SCE1572_3993	24.04	66.75
SCE1572_104	22.52	2.41
SCE1572_1780	33.42	65.54
SCE1572_11427	30.61	27.8
SCE1572_7302	116.11	32.33
SCE1572_9641	71.27	51.53
SCE1572_5423	31.96	13.77
SCE1572_3505	85.65	30.81
SCE1572_493	35.25	5.14
SCE1572_5997	15.95	31.68
SCE1572_6565	17.27	10.39
SCE1572_1450	8.03	21.6
SCE1572_7448	29.64	44.12
SCE1572_360	108.91	133.63
SCE1572_7164	30.43	10.1
SCE1572_9278	3.46	0
SCE1572_1755	36.5	157.68
SCE1572_6911	57.55	18.15
SCE1572_2904	41.89	4.8
SCE1572_5507	3.3	0
SCE1572_9457	52.03	17.61
SCE1572_10643	73.04	247.72
SCE1572_9461	51.01	77.3
SCE1572_3393	21.02	3.61
SCE1572_5994	45.53	46.17
SCE1572_9724	30.64	18.81
SCE1572_3303	20.8	30.81
SCE1572_9648	61.82	102.75
SCE1572_8230	20.75	39.37
SCE1572_7175	70.61	212.28

SCE1572_1597	56.34	26.7
SCE1572_1772	64.02	18.92
SCE1572_9230	38.75	10.49
SCE1572_2218	33.69	49.42
SCE1572_3856	59.95	30.53
SCE1572_131	10.99	26.44
SCE1572_2322	11.37	39.53
SCE1572_10255	37.98	19.93
SCE1572_7968	46.07	51.58
SCE1572_8636	8.35	13.39
SCE1572_4582	35.09	18.94
SCE1572_6194	39.29	70.49
SCE1572_9359	36.06	46.73
SCE1572_11153	148.16	1377.82
SCE1572_5701	15.49	69.26
SCE1572_10506	0	0
SCE1572_3061	4.3	0
SCE1572_5502	22.33	8.49
SCE1572_7785	2.81	0
SCE1572_8732	0	0
SCE1572_6043	0	0
SCE1572_3710	2516.82	83355.21
SCE1572_6345	18.1	9.08
SCE1572_5267	41.74	143.08
SCE1572_9886	33.04	101.21
SCE1572_471	17.14	34.91
SCE1572_10559	12.63	11.4
SCE1572_7470	71.37	70.14
SCE1572_5319	72.02	27.37
SCE1572_322	37.74	21.56
SCE1572_2285	13.1	189.22
SCE1572_3656	21.57	29.67
SCE1572_5509	10.17	5.83
SCE1572_6039	11.86	41.04
SCE1572_3446	0	0
SCE1572_9213	96.22	23.06
SCE1572_8647	63.68	18.25
SCE1572_1183	35.03	23.1
SCE1572_549	0	0
SCE1572_5579	34.61	21.47
SCE1572_9783	33.17	45.62
SCE1572_11086	36.29	74.95
SCE1572_4567	68.47	58.86
SCE1572_521	10.98	6.6
SCE1572_9592	31.06	381.39
SCE1572_8281	17.72	23.7
SCE1572_4119	44.59	8840.42
SCE1572_48	30.32	8.42

SCE1572_2892	29.57	15.51
SCE1572_3724	22.83	438.19
SCE1572_1474	45.48	12.16
SCE1572_506	8.66	2.61
SCE1572_7475	107.21	503.72
SCE1572_1911	50.39	30.32
SCE1572_3323	0	0
SCE1572_11347	31.14	48.33
SCE1572_9730	49.87	90.27
SCE1572_9786	71.09	19.14
SCE1572_2948	36.22	20.27
SCE1572_4450	17.33	20.85
SCE1572_5165	83.33	577.07
SCE1572_4889	14.81	13.17
SCE1572_901	36.23	18.78
SCE1572_9353	48.06	150.63
SCE1572_7189	54.93	32.38
SCE1572_8641	35.2	15.73
SCE1572_1814	15.89	4.78
SCE1572_11280	30.82	218.06
SCE1572_6133	61.11	441.27
SCE1572_10760	18.74	393.62
SCE1572_7355	89.55	76.78
SCE1572_9941	20.26	23.59
SCE1572_9029	62.56	21.71
SCE1572_8331	57.54	251.71
SCE1572_3312	29.98	36.6
SCE1572_7168	87.65	224.82
SCE1572_10801	0	0
SCE1572_5901	43.67	26.27
SCE1572_11265	91.53	274.89
SCE1572_3314	20.08	18.21
SCE1572_6845	93.24	417.49
SCE1572_8800	47.54	3.09
SCE1572_5637	47.36	22.97
SCE1572_6046	97.17	201.9
SCE1572_3087	24.64	18.25
SCE1572_1642	25.27	22.41
SCE1572_2744	59.43	502.13
SCE1572_1090	21.77	8.27
SCE1572_3961	116.3	167.65
SCE1572_2570	40.98	0
SCE1572_5773	0	0
SCE1572_9200	0	0
SCE1572_7656	4.08	4.21
SCE1572_2844	8.29	0
SCE1572_6331	70.54	544.85
SCE1572_10931	19.83	14.04

SCE1572_3942	696.98	870.64
SCE1572_6051	21.89	56.51
SCE1572_10185	76.27	60.45
SCE1572_6058	10.74	38.31
SCE1572_9595	23.94	689.03
SCE1572_8739	35.41	11
SCE1572_3923	14.06	5.89
SCE1572_595	42.22	12.7
SCE1572_899	34.4	19.87
SCE1572_8987	20.22	40.55
SCE1572_4892	62.26	97.13
SCE1572_11327	10.47	19.98
SCE1572_1435	30.75	35.06
SCE1572_3601	13.27	12.29
SCE1572_5929	78.36	25.11
SCE1572_9060	37.69	19.73
SCE1572_11363	28.99	17.52
SCE1572_141	32.6	5.12
SCE1572_8533	51.1	26.7
SCE1572_126	13.96	7.25
SCE1572_6276	44.5	201.52
SCE1572_8026	2.49	0
SCE1572_7299	84.26	50.4
SCE1572_4599	11.37	0
SCE1572_991	0	0
SCE1572_1139	34.41	23.29
SCE1572_10070	476.72	1198.25
SCE1572_806	0	0
SCE1572_4994	48.41	25.28
SCE1572_8445	31.29	26.07
SCE1572_10567	38.4	25.33
SCE1572_8520	5.82	0.5
SCE1572_10369	51.06	21.17
SCE1572_10311	5.62	1.35
SCE1572_2005	82.03	576.47
SCE1572_4882	46.34	32.29
SCE1572_1555	0	0
SCE1572_317	28.49	23.22
SCE1572_445	68.82	28.47
SCE1572_979	0	0
SCE1572_7172	82.97	50.83
SCE1572_1996	34.39	8.28
SCE1572_6128	200.69	2087.29
SCE1572_7133	48.37	21.11
SCE1572_4811	25.27	60.16
SCE1572_9762	12.79	21.62
SCE1572_9982	32.07	19.49
SCE1572_6171	23.01	16.29

SCE1572_8673	32.63	7.7
SCE1572_3457	0	0
SCE1572_5921	0	0
SCE1572_9030	71.18	34.82
SCE1572_7051	20	2.63
SCE1572_2298	60.65	105.7
SCE1572_264	37.9	44.5
SCE1572_4590	9.19	0
SCE1572_10212	48	23.75
SCE1572_6004	38.54	122.05
SCE1572_753	35.75	40.05
SCE1572_7410	0	0
SCE1572_5249	28.3	55.47
SCE1572_9385	17.06	36.49
SCE1572_9115	257.24	656.04
SCE1572_7995	65.75	13.03
SCE1572_6124	18.27	48.36
SCE1572_11409	20.7	13.9
SCE1572_2768	6.36	2.55
SCE1572_7263	18.87	12.53
SCE1572_50	19.47	4.46
SCE1572_11533	24.22	10.14
SCE1572_1765	15.38	1.72
SCE1572_11082	44.41	76.34
SCE1572_1741	72.8	79.84
SCE1572_11488	67.25	21.02
SCE1572_4447	39.03	24.06
SCE1572_9371	36.43	42.65
SCE1572_5386	36.82	24.77
SCE1572_6626	31.81	43.38
SCE1572_11525	24.71	14.87
SCE1572_2136	39.25	5.56
SCE1572_6787	52.25	51.78
SCE1572_4190	20.36	34.02
SCE1572_6664	34.44	26.82
SCE1572_6784	96.54	61.07
SCE1572_6752	10.63	9.43
SCE1572_2705	10.48	11.65
SCE1572_6641	34.99	24.33
SCE1572_10376	58.43	12.12
SCE1572_4902	16.41	10.4
SCE1572_5791	32.88	38.58
SCE1572_3153	0	0
SCE1572_2163	15.62	8.85
SCE1572_10382	30.32	28.89
SCE1572_370	31.76	30.29
SCE1572_2667	61.75	27.35
SCE1572_2414	94.13	69.94

SCE1572_10814	11.66	14.04
SCE1572_3057	46.88	12
SCE1572_1897	11.09	8.9
SCE1572_9753	58.1	13.64
SCE1572_5089	13.71	21.35
SCE1572_1294	42.35	24.9
SCE1572_6144	0	0
SCE1572_10140	26.31	28.98
SCE1572_7114	52.15	32.54
SCE1572_1279	78.84	29.19
SCE1572_8887	22.61	0
SCE1572_1823	30.66	77.9
SCE1572_2123	32.94	47.76
SCE1572_3187	11.23	0
SCE1572_11415	20.99	11.23
SCE1572_10345	25.33	17.78
SCE1572_2913	25.47	7.53
SCE1572_8498	0	0
SCE1572_4505	2.41	0
SCE1572_6241	23.24	23.77
SCE1572_4745	20.12	49
SCE1572_5622	30.37	52.73
SCE1572_4859	32.7	9.52
SCE1572_1619	224.93	3085.56
SCE1572_9074	95.68	23.21
SCE1572_4182	9.15	5.87
SCE1572_6428	24.41	4.45
SCE1572_1200	38.13	11.74
SCE1572_2403	26.31	24.99
SCE1572_169	50.96	119.63
SCE1572_2147	77.84	27.96
SCE1572_2858	77.83	195.57
SCE1572_4319	43.09	6.6
SCE1572_6771	10.22	16.4
SCE1572_1600	31.06	32.04
SCE1572_4320	49.28	30.41
SCE1572_6639	38.36	13.19
SCE1572_4314	36.51	11.68
SCE1572_10287	272.38	459.82
SCE1572_8750	0	0
SCE1572_9152	30.37	39.14
SCE1572_10723	30.86	35.43
SCE1572_10154	82.83	564.28
SCE1572_4874	679.2	2181.1
SCE1572_7924	21.82	20.61
SCE1572_9638	28.94	122.75
SCE1572_8698	22.04	19.47
SCE1572_2124	58.37	18.08

SCE1572_10576	80.88	31.65
SCE1572_7635	603.14	6212.34
SCE1572_3774	28.87	10.53
SCE1572_3716	154.35	54.79
SCE1572_6299	22.22	22.02
SCE1572_7686	10.11	0
SCE1572_1274	14.21	3.8
SCE1572_6252	64.94	92.87
SCE1572_6609	43.54	37.43
SCE1572_8885	1.74	0
SCE1572_9557	32.06	273.36
SCE1572_1612	14.07	24.04
SCE1572_4571	27.41	21.05
SCE1572_9830	0	0
SCE1572_3278	17.91	61.24
SCE1572_7391	51.86	21.67
SCE1572_1209	50.02	9.41
SCE1572_4821	32.96	5.05
SCE1572_8572	0	0
SCE1572_10330	0	0
SCE1572_5988	0	0
SCE1572_1259	17.04	4.1
SCE1572_10106	195.86	924.38
SCE1572_6438	2.45	0
SCE1572_10783	45.7	27.94
SCE1572_5617	49.39	20.73
SCE1572_11470	25.08	20.58
SCE1572_5981	41.83	69.21
SCE1572_863	40.41	123.18
SCE1572_531	27.24	200.01
SCE1572_5798	58.72	21.09
SCE1572_1124	37.43	12.87
SCE1572_4062	58.87	434.43
SCE1572_2718	46.15	16.66
SCE1572_5647	24.63	12
SCE1572_6612	21.32	11.4
SCE1572_1527	32.23	91.95
SCE1572_10927	47.32	168.75
SCE1572_9542	11.12	7.3
SCE1572_10666	53.92	168.6
SCE1572_6060	166.06	178.12
SCE1572_6409	9.13	0
SCE1572_1104	49.1	124.41
SCE1572_11551	5.14	0
SCE1572_7721	41.62	243.28
SCE1572_7035	16.72	5.15
SCE1572_1782	16.54	102.84
SCE1572_8268	3.7	0

SCE1572_2600	10.18	12.25
SCE1572_555	44.84	34.49
SCE1572_3953	35.05	47.54
SCE1572_6219	23.02	11.82
SCE1572_3345	260.59	1772.86
SCE1572_3497	291.39	1485.35
SCE1572_3958	19.34	27.33
SCE1572_10381	30.14	19.05
SCE1572_3882	22.31	3.98
SCE1572_8984	11.34	0.68
SCE1572_10397	35.15	65.66
SCE1572_281	13.31	10.89
SCE1572_5312	64.66	35.51
SCE1572_7361	4.33	9.12
SCE1572_3675	0	0
SCE1572_9396	53.78	129.15
SCE1572_7738	47.35	48.06
SCE1572_562	85.85	495.42
SCE1572_6150	19.49	0
SCE1572_7984	42.76	122.63
SCE1572_8237	47.92	293.62
SCE1572_542	38.16	3.67
SCE1572_4936	20.7	36.64
SCE1572_5663	26.49	6.26
SCE1572_7736	22.83	60.59
SCE1572_4300	32.07	17.72
SCE1572_2611	19.24	11.23
SCE1572_6117	19.01	16.34
SCE1572_2682	37.27	25.46
SCE1572_3574	27.14	14.2
SCE1572_6739	2.76	0
SCE1572_391	0	0
SCE1572_8796	13.63	0.8
SCE1572_7199	33.63	152.28
SCE1572_9737	23.18	33.17
SCE1572_3351	18.93	21.35
SCE1572_3110	31.22	11.3
SCE1572_9145	18.71	46.19
SCE1572_3117	52.84	171.26
SCE1572_4361	60.65	15.64
SCE1572_9450	42.83	24.88
SCE1572_4265	27.79	7.04
SCE1572_5693	13.78	6.32
SCE1572_9495	34.01	60.97
SCE1572_9180	32.49	9.31
SCE1572_10743	54.71	60.19
SCE1572_2245	85.62	69.88
SCE1572_3425	20.11	11.77

SCE1572_6412	39.93	14.66
SCE1572_2924	61.81	28.36
SCE1572_4915	170.83	1989.08
SCE1572_9529	30.18	45.27
SCE1572_9691	24.59	140.19
SCE1572_1324	15.87	8.49
SCE1572_4025	52.13	81.01
SCE1572_2232	8.37	15.1
SCE1572_8014	23.48	14.3
SCE1572_9414	126.05	1997.66
SCE1572_4791	42.52	32.47
SCE1572_1212	25.86	21.47
SCE1572_1130	0	0
SCE1572_9997	92.28	192.17
SCE1572_11055	41.06	137.61
SCE1572_2436	13.66	70.48
SCE1572_10706	26.9	27.82
SCE1572_9771	26.47	20.27
SCE1572_3241	45.57	14.62
SCE1572_3565	0	0
SCE1572_6551	8.12	1.09
SCE1572_7797	49.67	41.53
SCE1572_2047	0	0
SCE1572_2638	64.29	35.27
SCE1572_4737	32.82	170.96
SCE1572_7326	26.89	51.78
SCE1572_11410	18.3	8.39
SCE1572_2962	3.7	0
SCE1572_7866	170.13	841.27
SCE1572_10452	27.35	92.65
SCE1572_3192	62.74	69.69
SCE1572_4075	43.58	124.55
SCE1572_4837	103.01	253.5
SCE1572_10618	65.55	63.83
SCE1572_10698	36.3	155.91
SCE1572_7161	31.12	17.29
SCE1572_4645	68.24	119.97
SCE1572_20	35.98	307.71
SCE1572_3596	67.25	21.02
SCE1572_2803	22.46	69.27
SCE1572_1042	0	0
SCE1572_4039	44.76	6.95
SCE1572_257	54.64	19.73
SCE1572_6813	111.55	45.72
SCE1572_9420	38.12	224.25
SCE1572_4325	21.54	10.16
SCE1572_4781	184.12	240.13
SCE1572_9250	66.48	19.54

SCE1572_7950	65.08	99.15
SCE1572_6192	29.77	27.87
SCE1572_10920	17	40.91
SCE1572_1731	74.94	29.89
SCE1572_2107	69.07	140.11
SCE1572_2605	11.63	4.66
SCE1572_9055	35.57	11.21
SCE1572_9209	30.44	100.3
SCE1572_8759	70.27	232.29
SCE1572_9245	12.2	0
SCE1572_11065	2.81	13.52
SCE1572_5198	0	0
SCE1572_6931	12.63	0
SCE1572_4783	178.16	85.2
SCE1572_11061	534.74	1520.14
SCE1572_9485	36.98	66.75
SCE1572_8830	52.43	178.71
SCE1572_8374	38.65	83.48
SCE1572_68	58.63	126.3
SCE1572_11142	0	16.78
SCE1572_6652	26.47	10.8
SCE1572_7077	0	0
SCE1572_2640	214.79	129.52
SCE1572_2725	39.31	42.93
SCE1572_3014	31.29	8.97
SCE1572_450	29.28	19.31
SCE1572_1795	46.45	180.13
SCE1572_4101	110.55	1968.3
SCE1572_8747	20.22	0
SCE1572_5301	19.44	24.95
SCE1572_1337	30.26	86.39
SCE1572_11123	43.76	21.76
SCE1572_2601	0	0
SCE1572_3983	13.97	14.95
SCE1572_3966	10.57	34.33
SCE1572_4421	0	0
SCE1572_5048	26.84	5.24
SCE1572_5111	343.34	1015.94
SCE1572_7320	14.03	4.12
SCE1572_7500	12.15	16.71
SCE1572_6916	20.77	21.25
SCE1572_9912	56.68	17.05
SCE1572_10536	93.04	453.39
SCE1572_4331	10.04	3.81
SCE1572_1539	35.79	44.64
SCE1572_8220	95.87	85.86
SCE1572_4487	50.35	78.58
SCE1572_11000	27.7	10.53

SCE1572_8702	54.09	229.22
SCE1572_9568	33.14	20.84
SCE1572_10051	71.12	109.73
SCE1572_10004	34.07	14.35
SCE1572_9977	79.78	37.36
SCE1572_336	25.61	16.22
SCE1572_11574	31.81	36.49
SCE1572_4822	0	0
SCE1572_4353	131.55	258.67
SCE1572_4919	43.23	10.87
SCE1572_6558	29.62	19.33
SCE1572_10821	0	0
SCE1572_2291	123.77	386.72
SCE1572_7956	27.29	120.95
SCE1572_9425	33.37	22.7
SCE1572_7896	3031.15	118712
SCE1572_2971	52.71	23.95
SCE1572_4511	67.32	39.41
SCE1572_426	31.3	266.04
SCE1572_6790	15.77	2.92
SCE1572_5428	19.19	36.95
SCE1572_7525	96.48	117.62
SCE1572_9049	33.33	21.36
SCE1572_512	22.85	0
SCE1572_3862	50.93	94.4
SCE1572_6090	33.19	718.95
SCE1572_9185	21.46	0
SCE1572_4637	24.7	18.75
SCE1572_7396	120.65	94.72
SCE1572_10907	98.68	717.17
SCE1572_3257	26.48	12.5
SCE1572_929	36.85	73.49
SCE1572_5896	35.56	8.56
SCE1572_11331	36.45	67.8
SCE1572_10064	0	0
SCE1572_3484	23.73	15.87
SCE1572_8715	95.65	97.1
SCE1572_9419	69.61	789.52
SCE1572_5091	122.69	285.2
SCE1572_8637	33.6	33.3
SCE1572_6507	59.1	29.79
SCE1572_10407	43.18	62.83
SCE1572_9222	66.71	62.04
SCE1572_1467	277.67	480.97
SCE1572_2398	72.97	1120.35
SCE1572_7251	0	0
SCE1572_5399	0	0
SCE1572_10400	36.55	299.55

SCE1572_4243	24.27	13.66
SCE1572_2424	136.03	243.91
SCE1572_294	0	0
SCE1572_8473	135.66	53.35
SCE1572_8162	3.23	11.65
SCE1572_4395	0	0
SCE1572_8868	43.23	17.82
SCE1572_2685	0	0
SCE1572_7221	10.16	85.62
SCE1572_1197	41.12	11.67
SCE1572_11198	24.43	21.47
SCE1572_2631	41.3	24.14
SCE1572_10139	0	0
SCE1572_9005	24.21	9.2
SCE1572_8391	16.64	6.82
SCE1572_8136	16.13	7.76
SCE1572_10769	16.05	12.88
SCE1572_4632	34.41	15.47
SCE1572_5107	84.66	129.19
SCE1572_10960	8.39	6.21
SCE1572_10903	78.2	30.73
SCE1572_4613	46.19	25.38
SCE1572_5029	51.48	202.89
SCE1572_10967	34.99	16.04
SCE1572_4385	19.58	8.78
SCE1572_7560	32.18	13.41
SCE1572_7401	13.32	1109.56
SCE1572_8207	22.54	28
SCE1572_4532	0	0
SCE1572_3216	47.15	75.11
SCE1572_6303	1.8	0
SCE1572_2040	49.77	315.71
SCE1572_7043	92.86	1446
SCE1572_6022	0	0
SCE1572_8344	36.5	9.01
SCE1572_1011	17.35	5.97
SCE1572_10174	0	0
SCE1572_1063	13.15	8.33
SCE1572_8443	6.11	2.94
SCE1572_9138	39.31	5.41
SCE1572_615	4.21	0
SCE1572_10350	7.98	5.24
SCE1572_3165	38.58	14.39
SCE1572_3794	43.51	25.39
SCE1572_5150	39.82	5.53
SCE1572_6257	35.18	20.16
SCE1572_9988	24.08	11.86
SCE1572_894	57.4	90.86

SCE1572_9474	92.16	1144.85
SCE1572_8585	19.23	12.46
SCE1572_10426	12.06	16.59
SCE1572_5071	60.1	98.39
SCE1572_2272	36.69	62.98
SCE1572_10750	15.93	21.47
SCE1572_8515	15.84	12.53
SCE1572_6029	40.43	130.29
SCE1572_5278	21.58	11.69
SCE1572_2156	7.78	21.83
SCE1572_2015	5.57	5.37
SCE1572_3849	29.26	2.13
SCE1572_4604	43.25	58.21
SCE1572_2987	36.98	110.66
SCE1572_2329	47.11	28.14
SCE1572_3356	14.48	3.67
SCE1572_10308	36.3	5.14
SCE1572_7715	16.34	1.23
SCE1572_7644	37.35	32.16
SCE1572_10325	39.22	55.37
SCE1572_7438	132.86	1213.64
SCE1572_2526	19.06	4.27
SCE1572_8878	20.07	8.59
SCE1572_8837	18.95	13.03
SCE1572_6249	14.52	3.88
SCE1572_9174	77.57	83.65
SCE1572_11119	69.75	271.13
SCE1572_2585	46.72	12.73
SCE1572_10735	8.61	9.56
SCE1572_3646	63.69	119.38
SCE1572_416	29.21	14.51
SCE1572_6683	47.83	265.92
SCE1572_9588	32.77	33.94
SCE1572_3135	9.48	14.66
SCE1572_9400	11.09	35.6
SCE1572_8328	0	0
SCE1572_3492	0	0
SCE1572_393	23.76	10.89
SCE1572_9850	0	0
SCE1572_1697	111.82	118.6
SCE1572_11007	16.68	31.04
SCE1572_6234	26.04	18.66
SCE1572_10360	25.53	32.64
SCE1572_3075	43.7	27.44
SCE1572_9632	193.25	508.5
SCE1572_8067	23.65	13.39
SCE1572_3639	18.95	32.2
SCE1572_11024	138.53	372.8

SCE1572_4518	47.54	70.12
SCE1572_9313	78.39	68.42
SCE1572_9105	44.15	76.9
SCE1572_5778	40.5	50.06
SCE1572_8545	22.85	17.19
SCE1572_2328	26.29	24.86
SCE1572_4660	66.39	1075.33
SCE1572_2886	31.11	24.72
SCE1572_6515	13.61	2.98
SCE1572_716	40.3	17.86
SCE1572_11100	58.16	145.65
SCE1572_10532	0	0
SCE1572_10470	37.9	45.62
SCE1572_7912	111.53	13.37
SCE1572_10337	20.49	0
SCE1572_7947	27	0
SCE1572_2083	3.16	0
SCE1572_1110	3.37	0
SCE1572_8827	16.31	0
SCE1572_2194	35.26	21.22
SCE1572_10030	28.88	9.27
SCE1572_3730	0	0
SCE1572_8507	17.87	3.91
SCE1572_2461	55.64	0
SCE1572_6034	51.74	92.38
SCE1572_95	16.34	3.15
SCE1572_2784	38.47	9.34
SCE1572_8157	41.14	3.67
SCE1572_10079	120.4	21.47
SCE1572_9866	21.46	35.8
SCE1572_8146	63.58	61.8
SCE1572_10516	79.06	39.59
SCE1572_4218	43.17	182.46
SCE1572_9367	28.33	10.85
SCE1572_4778	26.26	87.66
SCE1572_1635	19.36	20.7
SCE1572_10025	24.09	39.6
SCE1572_5114	82.6	245.13
SCE1572_10477	34.89	106.57
SCE1572_455	34.94	27.08
SCE1572_420	13.56	10.49
SCE1572_8500	29.56	2.3
SCE1572_2734	749.92	1406.35
SCE1572_1309	1818.76	13320.88
SCE1572_3739	3.74	0
SCE1572_10881	0	0
SCE1572_5343	88.61	82.15
SCE1572_10119	34.21	30.04

SCE1572_4197	31.46	30.68
SCE1572_6065	0	0
SCE1572_10447	39.08	49.74
SCE1572_919	69.81	115.51
SCE1572_7846	2.31	1.85
SCE1572_10622	22.97	17.27
SCE1572_8994	37.54	62.19
SCE1572_7248	31.1	9.36
SCE1572_7569	24.07	21.49
SCE1572_11422	37.9	37.63
SCE1572_7070	2.81	0
SCE1572_11586	19.89	46.58
SCE1572_910	48.18	28.96
SCE1572_1202	34.76	11.54
SCE1572_11136	42.1	57.4
SCE1572_7782	0	0
SCE1572_1236	82.54	91.75
SCE1572_9647	148.17	181.31
SCE1572_1985	161.07	7565.41
SCE1572_7882	32.36	51.96
SCE1572_7145	55.49	37.62
SCE1572_2384	61.9	113.83
SCE1572_236	7.71	0
SCE1572_2647	52.89	47.52
SCE1572_1819	37.15	20.14
SCE1572_2377	23.01	136.85
SCE1572_7936	30.21	12.58
SCE1572_2356	55.92	198.91
SCE1572_9303	117.92	683.06
SCE1572_5814	15.57	7.14
SCE1572_1463	35.94	52.26
SCE1572_10889	27.36	42.34
SCE1572_1495	0	0
SCE1572_1663	0	0
SCE1572_11029	4.79	0
SCE1572_1707	591.8	139.55
SCE1572_9228	0	0
SCE1572_153	33.39	19.55
SCE1572_2861	0	0
SCE1572_723	36.31	12.27
SCE1572_2308	37.5	99.6
SCE1572_604	53.17	154.91
SCE1572_679	88.27	89.98
SCE1572_10686	24.71	119.68
SCE1572_1971	15.27	21.79
SCE1572_10373	49.89	60.82
SCE1572_4806	38.58	124.07
SCE1572_5487	61.77	43.25

SCE1572_1965	40.31	13.03
SCE1572_5539	43.13	102.72
SCE1572_10759	5.76	13.86
SCE1572_173	11.66	0
SCE1572_6537	29.43	20.05
SCE1572_10794	26.6	33.61
SCE1572_3764	33.16	17.05
SCE1572_6084	39.23	45.93
SCE1572_693	56.12	41.07
SCE1572_666	85.4	351.06
SCE1572_1978	47.03	501.52
SCE1572_3896	88.44	585.59
SCE1572_10251	2.3	0
SCE1572_5291	10.34	11.06
SCE1572_1394	23.17	83.29
SCE1572_4340	44.1	16.64
SCE1572_10897	18.54	39.67
SCE1572_682	36.47	8.73
SCE1572_7292	13.16	6.03
SCE1572_9259	30.85	19.09
SCE1572_8790	63.69	79.15
SCE1572_7469	38.68	42.45
SCE1572_6260	85.84	43.79
SCE1572_1956	6.63	2.28
SCE1572_2918	14.88	13.43
SCE1572_2174	38.14	11.33
SCE1572_6393	189.98	353.2
SCE1572_8176	57.58	15.09
SCE1572_3842	23.27	24.01
SCE1572_9839	0	0
SCE1572_9291	23.69	114.04
SCE1572_2569	16.58	17.11
SCE1572_5878	42.62	30.57
SCE1572_6621	25.27	16.97
SCE1572_1250	20.95	21.61
SCE1572_2481	220.87	1254.7
SCE1572_1443	57.24	24.19
SCE1572_9605	6.54	0
SCE1572_2851	22.58	5.18
SCE1572_4807	70.04	106.39
SCE1572_5850	54.33	28.38
SCE1572_11390	47.79	40.99
SCE1572_3588	109.57	24.53
SCE1572_11314	432.17	594.79
SCE1572_9561	40.88	14.73
SCE1572_10297	16.18	34.62
SCE1572_2444	7.22	8.69
SCE1572_5692	15.45	13.34

SCE1572_134	0	0
SCE1572_2911	46.95	21.77
SCE1572_6578	38.81	21.72
SCE1572_8029	45.94	84.78
SCE1572_10161	32.68	43.7
SCE1572_7405	52.8	67.17
SCE1572_9112	18.44	20.66
SCE1572_4674	54.35	34.43
SCE1572_7949	63.98	141.86
SCE1572_2574	13.57	13.44
SCE1572_8803	14.61	54.96
SCE1572_4714	42.24	18.16
SCE1572_1901	10.07	59.25
SCE1572_4723	73.46	75.24
SCE1572_6809	97.52	593
SCE1572_10509	22.93	70.53
SCE1572_2391	99.75	2855.36
SCE1572_2743	27.93	45.62
SCE1572_6907	27.07	11.17
SCE1572_5152	0	0
SCE1572_5867	37.21	13.27
SCE1572_1846	33.17	17.11
SCE1572_5743	19.09	147.25
SCE1572_1734	15.04	6.03
SCE1572_9620	12.38	7.45
SCE1572_8600	6.59	5.29
SCE1572_6169	0	0
SCE1572_828	18.45	4.16
SCE1572_8034	33.06	21.95
SCE1572_742	38.45	79.76
SCE1572_1727	66.03	52.97
SCE1572_11246	73.1	17.11
SCE1572_5776	25.46	58.5
SCE1572_8817	0	0
SCE1572_10285	8.37	18.88
SCE1572_8917	33.48	97.31
SCE1572_2543	30.28	14.01
SCE1572_8198	2.49	0
SCE1572_7195	61.07	20.56
SCE1572_10630	71.79	28.37
SCE1572_1356	112.39	642.7
SCE1572_1508	66.09	18.71
SCE1572_6883	96.38	78.68
SCE1572_7908	0	0
SCE1572_7578	43.52	253.42
SCE1572_3102	14.1	38.19
SCE1572_7803	2.81	0
SCE1572_9840	92.41	0

SCE1572_11005	37.41	42.34
SCE1572_9430	20.43	8.85
SCE1572_7844	176.89	5392.11
SCE1572_11045	41.73	16.74
SCE1572_1832	31.37	34.6
SCE1572_8052	55.28	5.7
SCE1572_7489	14.21	125.44
SCE1572_6724	38.1	49.24
SCE1572_6093	24.31	9.75
SCE1572_1386	0	0
SCE1572_2617	58.96	552.45
SCE1572_6804	42.62	19.05
SCE1572_8992	42.59	68.34
SCE1572_87	37.19	39.59
SCE1572_9864	11.66	6.6
SCE1572_2985	19.07	17.66
SCE1572_1161	31.15	6.67
SCE1572_10306	34.83	115.89
SCE1572_2006	16.03	67.36
SCE1572_3636	73.45	16.22
SCE1572_5221	40.43	52.13
SCE1572_9747	23.65	42.33
SCE1572_6651	6.5	20.85
SCE1572_6908	58.07	11.09
SCE1572_7666	8.36	11.49
SCE1572_10489	58.6	639.05
SCE1572_214	68.51	13.52
SCE1572_6837	51.49	105.58
SCE1572_4950	48.21	33.59
SCE1572_5054	16.46	14.6
SCE1572_5492	26.03	20.67
SCE1572_11260	134.66	150.05
SCE1572_7117	74.68	44.26
SCE1572_4705	11.31	10.89
SCE1572_7616	72.65	104.75
SCE1572_8172	27.26	10.93
SCE1572_1056	32.01	23.07
SCE1572_3252	156.56	110.5
SCE1572_7940	135.8	240.3
SCE1572_5188	28.54	761.07
SCE1572_1119	26.01	6.85
SCE1572_7815	973.08	12086.12
SCE1572_7580	14.18	53.11
SCE1572_3920	93.74	29.59
SCE1572_9293	18.48	47.9
SCE1572_5832	22.81	39.64
SCE1572_1481	39.84	21.17
SCE1572_3558	9.24	0

SCE1572_3828	65.08	224.95
SCE1572_1419	6.79	0
SCE1572_419	20.71	40.26
SCE1572_1501	0	0
SCE1572_144	41.35	29.49
SCE1572_5131	11.04	7.25
SCE1572_6385	0	0
SCE1572_4172	58.41	56.81
SCE1572_10688	98.52	1160.35
SCE1572_4452	20.11	9.31
SCE1572_8416	89.96	218.04
SCE1572_3628	28.27	18.56
SCE1572_3546	64.98	9.07
SCE1572_5752	225.17	528.92
SCE1572_5127	20.24	15.53
SCE1572_620	46.83	73.53
SCE1572_10809	4.94	11.9
SCE1572_5722	18.66	17.97
SCE1572_4957	3.07	2.47
SCE1572_2253	200.97	258.98
SCE1572_5957	31.33	41.36
SCE1572_538	24.96	52.9
SCE1572_4404	0	0
SCE1572_11568	138.51	935.97
SCE1572_8646	116.02	63.46
SCE1572_10264	61.34	28.79
SCE1572_5960	20.14	10.77
SCE1572_3436	25.57	58.67
SCE1572_9409	41.48	431.19
SCE1572_10671	17.3	3.97
SCE1572_9235	24.04	4.82
SCE1572_8910	41.51	21.72
SCE1572_1180	15.62	23.49
SCE1572_1006	99.04	248.68
SCE1572_8278	26.2	18.61
SCE1572_10454	0	0
SCE1572_8689	40.76	36.62
SCE1572_8458	80.51	635.34
SCE1572_2038	20.77	33.74
SCE1572_3222	44.74	110.07
SCE1572_1189	37.99	59.53
SCE1572_347	39.97	90.09
SCE1572_8846	15.74	25.25
SCE1572_10979	31.22	39.02
SCE1572_1401	20.43	16.39
SCE1572_10677	16.04	48.27
SCE1572_4966	16.39	26.3
SCE1572_3038	65.62	20.83

SCE1572_957	51.71	169.43
SCE1572_7710	22.63	65.36
SCE1572_272	0	0
SCE1572_4163	56.9	24.33
SCE1572_5331	37.33	77.64
SCE1572_1157	17.11	8.01
SCE1572_2781	6.63	9.12
SCE1572_920	3.3	0
SCE1572_6623	36.91	24.61
SCE1572_1314	416.94	3959.41
SCE1572_9289	15.87	25.46
SCE1572_4184	53	221.03
SCE1572_1720	18.95	53.67
SCE1572_5858	3.7	0
SCE1572_3386	2.61	0
SCE1572_1582	76.67	22.03
SCE1572_3888	46.41	12.86
SCE1572_9063	91.15	20.64
SCE1572_8540	18.24	10.79
SCE1572_3381	33.91	41.28
SCE1572_8614	86.92	130.55
SCE1572_10445	23.33	19.75
SCE1572_2994	2.53	0
SCE1572_3607	23.14	15
SCE1572_3653	11.97	0
SCE1572_9497	49.05	75.64
SCE1572_2494	27.18	16.35
SCE1572_3280	24.68	39.26
SCE1572_5348	160.57	225.94
SCE1572_8186	0	0
SCE1572_10651	69.58	177.47
SCE1572_2649	27.83	18.51
SCE1572_9087	61.99	22.81
SCE1572_4975	346.74	2597.64
SCE1572_10757	32.75	32.31
SCE1572_6868	11.23	3.38
SCE1572_1518	31.44	23.4
SCE1572_5017	38.67	41.25
SCE1572_818	12.13	4.87
SCE1572_791	61.63	280.86
SCE1572_6863	55.75	20.27
SCE1572_9922	0	0
SCE1572_7428	18.02	8.23
SCE1572_4034	217.26	205.03
SCE1572_10238	73.83	31.73
SCE1572_6815	51.9	22.71
SCE1572_5764	79.86	41.96
SCE1572_1690	14.21	7.6

SCE1572_2755	102.49	72.76
SCE1572_7694	25.16	33.31
SCE1572_10853	82.07	36.83
SCE1572_1712	17.39	8.19
SCE1572_2500	33.41	8.25
SCE1572_627	29	36.63
SCE1572_1093	16.28	22.04
SCE1572_10611	17.95	43.21
SCE1572_4248	24.87	69.56
SCE1572_7066	58.04	14.25
SCE1572_1044	14.64	22.65
SCE1572_2109	58.42	462.01
SCE1572_1679	40.88	127.76
SCE1572_8848	54.4	30.31
SCE1572_3688	63.63	21.56
SCE1572_203	44.26	42.86
SCE1572_2045	25.18	30.3
SCE1572_9969	16.2	26.51
SCE1572_4029	166.86	183.43
SCE1572_7212	2.45	0
SCE1572_5431	23.07	15.87
SCE1572_2059	69.09	15.71
SCE1572_2503	64.86	25.37
SCE1572_3784	26.14	1184.42
SCE1572_6732	38.18	162.77
SCE1572_2309	14.27	49.37
SCE1572_657	848.88	707.17
SCE1572_5021	68.24	271.68
SCE1572_8215	18.14	3.12
SCE1572_190	29.23	18.76
SCE1572_7492	20.09	12.09
SCE1572_4131	41.69	54.74
SCE1572_7851	43.4	78.68
SCE1572_10848	26.14	15.49
SCE1572_4642	91.15	31.97
SCE1572_4834	0	0
SCE1572_9966	9.23	6.35
SCE1572_2169	25.27	18.8
SCE1572_10410	38.94	55.65
SCE1572_654	0	0
SCE1572_11296	19.85	20.09
SCE1572_9302	70.89	113.74
SCE1572_8085	0	0
SCE1572_6190	51.36	19.47
SCE1572_11209	20.62	22.06
SCE1572_5737	118.49	143.27
SCE1572_11285	47.29	1103.14
SCE1572_3339	266.23	4016.62

SCE1572_4082	0	0
SCE1572_4785	35.55	41.32
SCE1572_1210	2.23	0
SCE1572_8377	0	0
SCE1572_7706	16.8	17.75
SCE1572_5872	81.68	78.87
SCE1572_3520	13.58	0
SCE1572_4410	0	0
SCE1572_9490	48.6	72.49
SCE1572_10860	446.87	746.31
SCE1572_340	36.39	11.35
SCE1572_6879	73.66	136.91
SCE1572_11213	13.78	12.44
SCE1572_4258	57.99	218.08
SCE1572_4845	20.96	26.33
SCE1572_8954	21.77	27.74
SCE1572_4687	16.1	10
SCE1572_6528	15.42	9.28
SCE1572_10392	14.44	13.9
SCE1572_1745	56.92	23.71
SCE1572_4099	26.95	38.93
SCE1572_197	53.84	233.62
SCE1572_1627	189.78	168.95
SCE1572_2875	25.8	36.75
SCE1572_9368	9.59	1.44
SCE1572_9294	39.57	348.87
SCE1572_1923	23.74	17.51
SCE1572_380	25.91	4.62
SCE1572_7520	9.97	12.63
SCE1572_11231	32.04	16.28
SCE1572_3337	332.73	5135.07
SCE1572_8876	55.9	17.42
SCE1572_7182	52.27	15.87
SCE1572_7246	46.29	41.78
SCE1572_885	161.38	42.06
SCE1572_5133	13.78	16.59
SCE1572_8059	0	0
SCE1572_6870	73.32	230.94
SCE1572_3163	82.37	44.41
SCE1572_3876	27.71	15.7
SCE1572_639	46.04	45.17
SCE1572_9447	0	0
SCE1572_5748	27.4	34.32
SCE1572_9472	136.51	107.59
SCE1572_7104	49.41	23.78
SCE1572_5464	33.54	14.53
SCE1572_8622	44.22	40.55
SCE1572_8517	30.42	14.64

SCE1572_11504	10.34	3.32
SCE1572_10604	30.92	26.9
SCE1572_4468	9.75	10.56
SCE1572_8003	95.68	36.92
SCE1572_1572	55.22	33.83
SCE1572_949	147.43	149.77
SCE1572_8434	16.17	13.26
SCE1572_6546	101.96	67.39
SCE1572_7498	26.89	8.93
SCE1572_7218	50.93	80.31
SCE1572_7235	16.72	23.43
SCE1572_8407	14.33	31.61
SCE1572_10121	104.29	225.9
SCE1572_3919	18.59	6.14
SCE1572_510	24.9	24.68
SCE1572_5307	39.9	43.21
SCE1572_1103	131.76	114.69
SCE1572_9013	2.49	0
SCE1572_10273	83.14	184.42
SCE1572_3972	129.96	238.94
SCE1572_4635	43.86	20.66
SCE1572_2651	56.9	19.3
SCE1572_1936	36.83	31.64
SCE1572_250	18.01	21.68
SCE1572_10209	0	0
SCE1572_10514	30.12	37.46
SCE1572_5679	98.82	265
SCE1572_4755	25.22	21.79
SCE1572_2621	42.65	28.17
SCE1572_8106	90.54	16.45
SCE1572_4793	13.1	31.54
SCE1572_3184	7.11	0
SCE1572_1685	14.66	2.58
SCE1572_2192	0	0
SCE1572_8466	88.21	200.71
SCE1572_2513	61.37	198.1
SCE1572_1976	42.29	315.08
SCE1572_4241	43.07	31.1
SCE1572_1767	49.85	38.06
SCE1572_5406	4.7	4.24
SCE1572_3276	19.29	65.86
SCE1572_6605	18.36	198.84
SCE1572_8948	11.26	10.43
SCE1572_1669	14.15	104.61
SCE1572_1759	27.38	10.14
SCE1572_5687	0	0
SCE1572_3018	46.43	16.81
SCE1572_3512	15.09	14.52

SCE1572_5204	90.97	214.01
SCE1572_9161	11.94	24.99
SCE1572_4968	21.17	5.99
SCE1572_10035	18.95	8.29
SCE1572_296	28.92	67.72
SCE1572_4054	50.95	155.54
SCE1572_3454	34.08	24.91
SCE1572_1061	33.43	100.57
SCE1572_5885	33.79	16.49
SCE1572_6456	21.41	8.25
SCE1572_833	126.49	225.21
SCE1572_4078	28.83	15.55
SCE1572_7601	41.35	39.4
SCE1572_3269	31.05	172.94
SCE1572_2599	42.65	24.82
SCE1572_8901	12.59	17.21
SCE1572_817	0	0
SCE1572_7083	30.15	153.65
SCE1572_2199	49.73	28.29
SCE1572_9857	59.68	126.17
SCE1572_3701	42.17	26.58
SCE1572_6670	36.15	2.42
SCE1572_6658	371.67	293.97
SCE1572_10168	24.66	10.99
SCE1572_5804	32.35	53.44
SCE1572_7717	10.69	2.03
SCE1572_38	94.09	323.66
SCE1572_8169	57.59	14.14
SCE1572_3365	7.25	2.42
SCE1572_1367	43.32	91.8
SCE1572_279	0	0
SCE1572_4061	17.56	43.3
SCE1572_7510	3.94	0
SCE1572_4397	21.85	12.75
SCE1572_1348	195.46	885.68
SCE1572_4852	16.24	24.2
SCE1572_5272	40.86	16.39
SCE1572_11252	0	0
SCE1572_6027	11.05	10.34
SCE1572_1680	88.86	628.25
SCE1572_8123	10.64	0
SCE1572_1895	26.76	11.56
SCE1572_9617	30.32	20.01
SCE1572_7691	23.33	62.75
SCE1572_6076	0	0
SCE1572_2145	19.98	82.24
SCE1572_3285	43.05	49.5
SCE1572_4947	20	41.81

SCE1572_8660	16.48	15.87
SCE1572_10870	48.1	8.79
SCE1572_2773	145.02	66.31
SCE1572_4342	16.57	10.46
SCE1572_1653	70.22	0
SCE1572_5418	19.68	21.77
SCE1572_9043	11.9	16.63
SCE1572_5658	55.57	24.46
SCE1572_7704	17.29	19.21
SCE1572_1673	48.43	180.81
SCE1572_4592	17.69	41.97
SCE1572_8970	35.52	535.91
SCE1572_8861	54.72	18.97
SCE1572_1429	23.2	50.65
SCE1572_5147	19.46	0.76
SCE1572_4009	45.29	21.27
SCE1572_1476	53.73	16.65
SCE1572_3800	0	0
SCE1572_6561	27.77	5.42
SCE1572_10320	13.48	2.03
SCE1572_6480	32.91	37.6
SCE1572_1860	44.78	68.52
SCE1572_3911	147.23	1628.44
SCE1572_704	57.31	233.97
SCE1572_6224	41.48	154.92
SCE1572_9405	25.92	10.26
SCE1572_10067	335.4	884.71
SCE1572_5102	45.32	178.05
SCE1572_644	83.27	158.71
SCE1572_9563	31.07	13.97
SCE1572_3441	19.07	55.52
SCE1572_5585	57.34	10.62
SCE1572_4407	24.26	9.73
SCE1572_5353	75.51	139.91
SCE1572_9099	356.26	4709.09
SCE1572_10918	12.31	65.5
SCE1572_873	20.22	0
SCE1572_3330	42.64	590.15
SCE1572_10877	75.59	39.28
SCE1572_834	101.08	281.03
SCE1572_1424	23.57	100.13
SCE1572_2366	51.3	34.96
SCE1572_4162	72.2	50.68
SCE1572_7374	10.36	11.33
SCE1572_7347	24.45	8.83
SCE1572_8566	45.7	143.18
SCE1572_200	20.75	18.35
SCE1572_10095	21.79	395.51

SCE1572_9680	104.71	327.77
SCE1572_5376	42.8	15.97
SCE1572_7098	34.46	24.88
SCE1572_10260	23.43	12.53
SCE1572_6966	27.23	20.55
SCE1572_3201	47.73	0
SCE1572_4589	20.94	12.1
SCE1572_7758	13.28	1.33
SCE1572_5944	48.6	23.57
SCE1572_11326	25.71	7.58
SCE1572_5031	400.75	3340.84
SCE1572_2228	94.91	125.6
SCE1572_8696	0	0
SCE1572_7015	18.28	18.12
SCE1572_6009	137.18	369.27
SCE1572_9577	2.23	1.79
SCE1572_5917	68.83	230.54
SCE1572_7441	118.29	18.05
SCE1572_8402	68.25	35.11
SCE1572_10156	68.63	169.02
SCE1572_2266	29.1	30.69
SCE1572_1392	19.02	5.09
SCE1572_2203	31.37	207.14
SCE1572_5593	21.9	8.69
SCE1572_11493	25.22	9.74
SCE1572_7386	53.36	22.43
SCE1572_4294	36.73	22.67
SCE1572_9195	47.98	27.72
SCE1572_4766	59.51	73.33
SCE1572_2518	58.15	54.97
SCE1572_3697	14.84	12.42
SCE1572_2050	45.05	29.15
SCE1572_1549	37.9	71.88
SCE1572_9662	116.39	653.67
SCE1572_10246	0	0
SCE1572_974	0	0
SCE1572_2234	43	25.05
SCE1572_7973	8.68	0
SCE1572_10465	63.99	30.53
SCE1572_9903	23.69	27.56
SCE1572_5219	5.29	4.24
SCE1572_6062	59.09	155.4
SCE1572_7305	62.67	24.33
SCE1572_6945	9.36	0
SCE1572_3931	435.54	1413.22
SCE1572_6985	22.49	1.87
SCE1572_4238	0	0
SCE1572_1568	44.76	32.79

SCE1572_1246	13.38	2.3
SCE1572_1839	11.15	5.37
SCE1572_9277	30.23	18.74
SCE1572_4206	41.47	114.06
SCE1572_3665	0	0
SCE1572_11161	42.21	24.88
SCE1572_436	31.7	25.17
SCE1572_5171	48.59	252.31
SCE1572_6461	36.9	29.06
SCE1572_566	48.23	35.27
SCE1572_8932	26.93	39.21
SCE1572_2698	23.96	6.96
SCE1572_1857	0	0
SCE1572_7679	66.83	248.74
SCE1572_5236	47.05	77.07
SCE1572_9535	0	0
SCE1572_4657	33.11	157.29
SCE1572_75	10.46	5.59
SCE1572_10868	13.46	3.36
SCE1572_2028	102.47	405.02
SCE1572_3815	441.13	3721.49
SCE1572_9242	11.66	5.61
SCE1572_1158	15.35	5.6
SCE1572_2820	73.22	189.53
SCE1572_3461	42.92	13.33
SCE1572_1879	25.4	29.64
SCE1572_3813	0	0
SCE1572_3478	26.92	92.08
SCE1572_6799	72.04	20.4
SCE1572_3391	13.4	20.16
SCE1572_2767	23.94	34.57
SCE1572_7451	31.26	69.6
SCE1572_10217	17.59	114.3
SCE1572_6266	22.05	33.17
SCE1572_29	47.51	77.36
SCE1572_9708	27.55	60.74
SCE1572_2375	8.99	18.56
SCE1572_5935	38.58	12.43
SCE1572_11374	79.6	991.68
SCE1572_1528	55.25	54.47
SCE1572_10869	48.46	11.73
SCE1572_4221	81.41	631.87
SCE1572_9361	0	0
SCE1572_10240	0	0
SCE1572_2658	249.19	189.45
SCE1572_4290	19.09	38.26
SCE1572_8488	67.93	31.97
SCE1572_6013	20.07	38.52

SCE1572_9376	5.41	0
SCE1572_2248	80.87	28.38
SCE1572_5910	44.06	114.36
SCE1572_2800	79.2	29.38
SCE1572_9713	16.05	290.51
SCE1572_244	39.13	17.21
SCE1572_11033	56.1	25.54
SCE1572_7763	0	0
SCE1572_11545	43.14	22.18
SCE1572_5094	47.11	239.16
SCE1572_4	129.85	501.53
SCE1572_3677	26.93	16.81
SCE1572_10789	49.73	125.53
SCE1572_5002	199.22	1413.85
SCE1572_5338	24.59	6.58
SCE1572_8420	137.74	51.4
SCE1572_1332	26.7	6.89
SCE1572_7540	60.03	149.44
SCE1572_4695	7.62	6.67
SCE1572_3139	17.42	983.81
SCE1572_4288	17.41	33.4
SCE1572_6701	60.41	19.11
SCE1572_8411	44.8	78.79
SCE1572_2642	42.52	24.81
SCE1572_355	48.86	16.97
SCE1572_827	23.77	9.28
SCE1572_1665	97.07	182.98
SCE1572_1567	8.61	0
SCE1572_3737	51.15	13.19
SCE1572_7464	176.46	167
SCE1572_5470	75.81	13.34
SCE1572_11478	119.76	162.08
SCE1572_3248	6.55	2.25
SCE1572_4938	3.94	0
SCE1572_11188	1.94	0
SCE1572_5975	15.96	20.04
SCE1572_5472	47.2	19.42
SCE1572_9938	4.59	0
SCE1572_4480	16.8	13.48
SCE1572_2450	22.95	1.45
SCE1572_5787	25.91	154.75
SCE1572_11113	12.42	2.03
SCE1572_5043	30.54	131.27
SCE1572_5553	40.31	17.38
SCE1572_2614	23.91	26.94
SCE1572_9018	65.94	44.77
SCE1572_286	29.66	0
SCE1572_7649	41.45	19.57

SCE1572_5411	22.86	11.58
SCE1572_7484	28.23	28.94
SCE1572_77	18.81	8.31
SCE1572_3938	177.23	190.01
SCE1572_3904	0	0
SCE1572_579	20.59	216.25
SCE1572_10435	23.54	38.41
SCE1572_1036	52.63	15.13
SCE1572_7825	15.74	11.36
SCE1572_1099	34.67	143.76
SCE1572_4237	28.94	27.03
SCE1572_7366	117.74	1821.63
SCE1572_6590	8.2	16.44
SCE1572_2430	41.2	67.43
SCE1572_6633	71.34	20.17
SCE1572_7587	139.99	1619.34
SCE1572_5899	31.52	16.26
SCE1572_6205	91.52	23.84
SCE1572_4375	14.9	19.27
SCE1572_1607	29.92	8.54
SCE1572_3649	17.94	10.8
SCE1572_3742	16.97	13.05
SCE1572_6313	36.39	14.6
SCE1572_11304	47.47	116.81
SCE1572_8776	78.62	13.52
SCE1572_10592	25.97	4.36
SCE1572_3404	20.86	28.46
SCE1572_4384	28.4	11.57
SCE1572_9933	30.95	22.69
SCE1572_9333	33.32	368.93
SCE1572_2934	39.69	137.85
SCE1572_4545	50.11	8.32
SCE1572_8596	20.67	4.15
SCE1572_11211	72.93	29.79
SCE1572_5515	49.85	20.7
SCE1572_6464	22.48	7.34
SCE1572_7902	30.16	7.64
SCE1572_3208	68.39	442.57
SCE1572_11277	14.62	34.36
SCE1572_9652	45.7	37.01
SCE1572_5294	41.89	15.34
SCE1572_7505	31.48	18.61
SCE1572_3528	25.51	3442.32
SCE1572_9676	9.36	13.52
SCE1572_1980	169.51	1086.39
SCE1572_11369	36.24	4.59
SCE1572_4012	27.22	20.78
SCE1572_9876	9.33	2.81

SCE1572_11225	33.91	22.81
SCE1572_8295	62.05	159.21
SCE1572_8767	18.12	4.59
SCE1572_4540	44.38	20.36
SCE1572_4209	49.53	157.09
SCE1572_5210	6.94	2.79
SCE1572_1644	19.35	18.41
SCE1572_2536	74.74	73.24
SCE1572_5640	44.95	16.63
SCE1572_6431	95.79	50.59
SCE1572_5829	22.72	3.77
SCE1572_3444	54.06	18.59
SCE1572_10583	13.27	0
SCE1572_500	27.32	0
SCE1572_5602	16.88	57.37
SCE1572_9796	122.79	59.11
SCE1572_5714	17.76	29.01
SCE1572_6184	26.76	8.35
SCE1572_6357	16.02	8.46
SCE1572_10271	41.38	18.89
SCE1572_1713	27.07	40.96
SCE1572_4934	227.88	439.86
SCE1572_3171	97.74	453.84
SCE1572_8683	31.12	65.36
SCE1572_8262	16.76	12.53
SCE1572_10998	26.12	81.26
SCE1572_1878	33.11	41.95
SCE1572_4432	51.74	12.11
SCE1572_844	67.12	230.69
SCE1572_4621	48.22	230.92
SCE1572_8363	87.59	28.9
SCE1572_11511	34.2	32.05
SCE1572_8042	47.7	16.4
SCE1572_7547	49.1	23.84
SCE1572_1092	0	0
SCE1572_10941	51.26	11.69
SCE1572_8315	44.77	34.48
SCE1572_10547	19.38	11.66
SCE1572_4603	106.66	556.86
SCE1572_11320	27.15	3.19
SCE1572_2525	18.38	11.8
SCE1572_10571	67.28	150.82
SCE1572_11013	27.96	31.91
SCE1572_1361	38.34	146.81
SCE1572_5355	26.37	31.73
SCE1572_291	0	0
SCE1572_8049	49.83	5.14
SCE1572_3227	24.05	4.14

SCE1572_8072	32.78	14.09
SCE1572_768	58.18	69.2
SCE1572_2315	99.97	497.26
SCE1572_4049	35.39	263.62
SCE1572_4281	33.9	20.4
SCE1572_952	12.63	34.75
SCE1572_9603	16.34	3.15
SCE1572_10831	53.09	34.85
SCE1572_2906	66.44	15.38
SCE1572_28	29.88	53.93
SCE1572_5440	63.17	41.36
SCE1572_4431	13.42	5.7
SCE1572_9827	38.84	37.7
SCE1572_9217	48.24	91.72
SCE1572_634	49.48	171.9
SCE1572_4944	17.37	40.19
SCE1572_6167	49.6	15.77
SCE1572_11168	21.63	15.58
SCE1572_2814	40.71	227.23
SCE1572_8310	36.23	16.09
SCE1572_3176	38.53	49.41
SCE1572_4231	80.41	38.95
SCE1572_6527	0	0
SCE1572_9945	764.19	1400.89
SCE1572_225	0	0
SCE1572_11382	38.31	241.66
SCE1572_367	32.7	71.55
SCE1572_488	93.15	72.33
SCE1572_770	47.25	100.14
SCE1572_7848	39.25	45.21
SCE1572_4169	53.66	150.34
SCE1572_10951	33.38	37.94
SCE1572_2439	11.08	21.34
SCE1572_2333	50.65	116.36
SCE1572_4141	18.84	10.55
SCE1572_572	22.11	22.81
SCE1572_3660	37.4	48.66
SCE1572_6574	40.22	20.05
SCE1572_10828	46.2	28.51
SCE1572_515	78.11	20.89
SCE1572_4768	28.46	15.72
SCE1572_8079	22.63	0
SCE1572_5243	10.53	0
SCE1572_7954	184.73	16.78
SCE1572_7832	41.83	264.25
SCE1572_7312	25.04	16.29
SCE1572_9143	45.68	32.28
SCE1572_7284	28.16	1.74

SCE1572_7150	15.48	11.73
SCE1572_6399	47.83	427.57
SCE1572_3211	3.63	0
SCE1572_10493	79.28	410.24
SCE1572_4156	14.66	16.88
SCE1572_6489	24.75	29.79
SCE1572_10228	31.52	0
SCE1572_6280	14.71	298.71
SCE1572_1260	49.14	19.18
SCE1572_5432	57.61	14.6
SCE1572_5824	16.77	20.18
SCE1572_8779	30.58	162.53
SCE1572_7146	62.84	38.41
SCE1572_11400	47.99	164.8
SCE1572_6993	17.48	7.21
SCE1572_10958	31.31	23.68
SCE1572_8607	97.13	350.26
SCE1572_3143	34	18.78
SCE1572_5252	41.58	399.29
SCE1572_58	36.8	34.01
SCE1572_1861	67.28	59.3
SCE1572_10475	29.89	46.99
SCE1572_11424	17.1	100.71
SCE1572_2881	44.72	32.82
SCE1572_2787	35.21	166.51
SCE1572_602	54.43	67.28
SCE1572_2955	2.49	0
SCE1572_2839	42.71	27.24
SCE1572_585	23.36	30.46
SCE1572_11199	10.43	0
SCE1572_2792	29.55	11.85
SCE1572_3776	50	50.47
SCE1572_9198	27.93	16.81
SCE1572_1987	14.83	7.93
SCE1572_8450	30.03	10.02
SCE1572_5012	18.51	83.95
SCE1572_10687	10.96	17.59
SCE1572_8304	46.28	32.65
SCE1572_1701	73.42	122.21
SCE1572_3769	47.63	406.9
SCE1572_8505	15.72	14.29
SCE1572_1494	37.67	20.4
SCE1572_1881	36.88	7.89
SCE1572_4958	23.02	3.61
SCE1572_6216	57.8	27.82
SCE1572_8710	28.21	25.46
SCE1572_10894	18.95	36.49
SCE1572_6547	35.9	42.16

SCE1572_2506	40.85	17.02
SCE1572_2016	48.9	22.47
SCE1572_5434	34.48	17.84
SCE1572_6465	3.73	2.69
SCE1572_10608	24.23	111.59
SCE1572_4665	8.71	2.1
SCE1572_8513	15.15	4.51
SCE1572_2305	16.01	67.24
SCE1572_4548	43.62	0
SCE1572_2883	78.84	531.33
SCE1572_10409	24.19	58.23
SCE1572_5624	0	0
SCE1572_2470	8.57	0.94
SCE1572_6909	54.87	0
SCE1572_4872	6.7	4.36
SCE1572_369	17.92	3.32
SCE1572_730	13.84	13.44
SCE1572_1276	19.89	9.77
SCE1572_8171	48.5	17.2
SCE1572_5875	7.02	6.76
SCE1572_1149	616.74	2322.51
SCE1572_3358	14.53	6.08
SCE1572_5823	32.39	4.98
SCE1572_2428	120.18	244.76
SCE1572_9564	14.84	10.87
SCE1572_5077	145.41	638.08
SCE1572_1257	31.45	104.38
SCE1572_5441	58.18	33.95
SCE1572_6756	32.98	25.77
SCE1572_5321	39.36	38.6
SCE1572_8199	32.29	15.24
SCE1572_7648	45.77	24.48
SCE1572_7662	23.45	5.64
SCE1572_10193	29.36	9.68
SCE1572_8309	38.5	105.33
SCE1572_32	21.29	10.87
SCE1572_1194	41.96	57.23
SCE1572_10317	20.04	13.61
SCE1572_8724	34.35	19.96
SCE1572_1907	26.4	76.57
SCE1572_4174	9.28	9.31
SCE1572_2441	48.61	39.54
SCE1572_6154	54.15	7.45
SCE1572_10733	15.55	152.83
SCE1572_684	27.94	12.86
SCE1572_9039	23.05	29.88
SCE1572_10797	17.22	14.72
SCE1572_11413	45.71	23.52

SCE1572_9508	18.09	9.01
SCE1572_9890	54.25	24.48
SCE1572_9501	135.27	395.33
SCE1572_10790	214.86	771.95
SCE1572_4216	215.66	406.2
SCE1572_7406	25.11	17.91
SCE1572_530	70.53	40.18
SCE1572_10776	137.95	197.95
SCE1572_2201	64.54	539.57
SCE1572_10062	433.82	1307.86
SCE1572_1453	86.21	40.16
SCE1572_2736	15.41	30.08
SCE1572_4804	53.49	22.05
SCE1572_6225	41.35	26.86
SCE1572_7432	43.46	55.78
SCE1572_10491	68.92	213.02
SCE1572_11449	118.49	391.87
SCE1572_4273	64.48	42.99
SCE1572_5581	43.69	170.89
SCE1572_2553	10.52	4.68
SCE1572_100	23.29	14.45
SCE1572_1445	39.93	30.3
SCE1572_2251	73.5	60.65
SCE1572_7687	19.99	14.08
SCE1572_7148	66.48	294.74
SCE1572_2131	20.95	11.92
SCE1572_5485	37.41	16.6
SCE1572_9899	84.46	453.09
SCE1572_2104	100.62	926.68
SCE1572_8361	30.73	4.93
SCE1572_4909	4.97	0
SCE1572_10636	13.38	0
SCE1572_5707	11.81	16.5
SCE1572_7910	10.42	2.28
SCE1572_2916	49.46	12.94
SCE1572_7778	21.66	16.82
SCE1572_7249	42.32	14.09
SCE1572_9321	13.43	6.93
SCE1572_7124	42.07	65.05
SCE1572_2446	42.54	27.3
SCE1572_4023	61.76	645.82
SCE1572_10364	20.38	72.59
SCE1572_4898	32.1	14.79
SCE1572_3428	24.63	33.39
SCE1572_3880	30.43	21.91
SCE1572_6086	2.37	0
SCE1572_6531	33.18	30.33
SCE1572_9268	41.09	62.53

SCE1572_11048	27.19	41.11
SCE1572_3729	11.66	4.68
SCE1572_9100	49.9	680.65
SCE1572_3207	32.01	371.7
SCE1572_2154	28.43	13.68
SCE1572_6617	43.8	5.41
SCE1572_2159	0	0
SCE1572_2568	48.73	36.49
SCE1572_614	20.33	15.38
SCE1572_8179	0	0
SCE1572_4013	38.53	97.26
SCE1572_5812	72.99	50.89
SCE1572_10280	28.96	263.1
SCE1572_715	0	0
SCE1572_11567	0	0
SCE1572_10696	16	18.95
SCE1572_665	28.16	29.54
SCE1572_9855	61.7	27.92
SCE1572_5007	633.92	1507.1
SCE1572_8923	9.63	5.79
SCE1572_10476	40.58	96.32
SCE1572_3527	26.47	10309.6
SCE1572_9064	69.59	22.66
SCE1572_4851	35.87	20.85
SCE1572_2401	91.91	340.34
SCE1572_4721	86.57	231.52
SCE1572_2357	38.36	101.12
SCE1572_1792	16.48	38.08
SCE1572_9582	62.63	45.04
SCE1572_216	76.77	217.11
SCE1572_8325	53.93	122.6
SCE1572_10327	26.14	5.03
SCE1572_729	26.04	86.62
SCE1572_7325	137.8	770.71
SCE1572_1695	0	0
SCE1572_8070	20.14	9.69
SCE1572_11601	33.27	137.83
SCE1572_1074	2.81	0
SCE1572_4047	31.46	11.86
SCE1572_1132	22.74	5.61
SCE1572_6716	103.07	254.01
SCE1572_5856	24.97	4.29
SCE1572_10147	25.59	74.46
SCE1572_7563	66.08	31.23
SCE1572_4178	20.29	2.76
SCE1572_5563	57.98	63
SCE1572_4891	3.09	0
SCE1572_9364	89.8	86.08

SCE1572_2176	23.17	8.12
SCE1572_10572	27.12	41.85
SCE1572_10899	9.6	0
SCE1572_453	35.58	12.07
SCE1572_9131	7.67	8.2
SCE1572_6836	21.84	157.72
SCE1572_8084	0	0
SCE1572_8371	21	15.8
SCE1572_9682	130.97	342.2
SCE1572_11330	84.33	386.52
SCE1572_362	39.51	22.54
SCE1572_8077	49.57	9.77
SCE1572_7562	21.18	4.02
SCE1572_3860	24.95	48.5
SCE1572_3627	35.38	10.43
SCE1572_11429	30.64	21.89
SCE1572_5109	43.07	124.41
SCE1572_2521	17.03	5.52
SCE1572_720	6.32	3.8
SCE1572_537	62.13	142.96
SCE1572_10482	42.08	15.71
SCE1572_5104	61.64	179.05
SCE1572_2399	531.19	3524.18
SCE1572_8558	10.7	2.92
SCE1572_2365	160.17	353.95
SCE1572_8993	75.17	240.73
SCE1572_2029	52.45	23.96
SCE1572_5952	5.41	0
SCE1572_4471	43.28	32
SCE1572_6444	25.27	18.25
SCE1572_9455	23.42	69.72
SCE1572_2345	37.68	99.14
SCE1572_5407	0	0
SCE1572_1666	17.15	12.8
SCE1572_11402	7.49	4.51
SCE1572_4259	2.41	0
SCE1572_435	50.91	146.68
SCE1572_2653	47.43	28.54
SCE1572_1693	7.64	3.07
SCE1572_3720	26.52	23.08
SCE1572_6011	32.78	68.33
SCE1572_4148	64.98	440.75
SCE1572_4671	0	0
SCE1572_3585	40.82	14.04
SCE1572_5961	32.99	37.82
SCE1572_3460	47.41	52.75
SCE1572_11114	78.22	273.91
SCE1572_7919	48.9	12.39

SCE1572_11202	53.56	1031.35
SCE1572_896	0	0
SCE1572_2964	74.16	1983.27
SCE1572_2764	11.49	0
SCE1572_4222	74.57	47.86
SCE1572_3576	26.89	9.64
SCE1572_37	15.21	23.19
SCE1572_1537	13.6	30.74
SCE1572_11558	44.66	21.37
SCE1572_6178	38.97	218.27
SCE1572_2413	46.91	217.74
SCE1572_1116	0	0
SCE1572_10539	46.08	28.84
SCE1572_3760	75.93	3.58
SCE1572_2485	49.23	126.38
SCE1572_10459	17.18	70.55
SCE1572_9732	74.49	22.17
SCE1572_8586	34.83	10.16
SCE1572_7610	72.05	232.22
SCE1572_9779	0	0
SCE1572_8639	24.24	82.97
SCE1572_6026	38.32	80.2
SCE1572_6560	0	0
SCE1572_1735	66.33	40.47
SCE1572_3968	26.04	12.9
SCE1572_9537	79.35	242.14
SCE1572_5359	19.23	205.6
SCE1572_3019	23.44	12.66
SCE1572_1655	0	0
SCE1572_1304	54.84	109.29
SCE1572_11255	72.87	139.43
SCE1572_5968	4.16	1.43
SCE1572_9254	15	6.08
SCE1572_5151	1.02	0
SCE1572_5753	0	0
SCE1572_10425	43.32	52.13
SCE1572_5894	21.19	3.19
SCE1572_7458	18.83	14.5
SCE1572_2091	14.01	0
SCE1572_3820	44.5	29.05
SCE1572_6570	31.79	27.96
SCE1572_2387	21.23	13.93
SCE1572_7595	66.81	361.83
SCE1572_2968	24	52.96
SCE1572_5483	37.76	7.87
SCE1572_9919	28.54	12.88
SCE1572_5362	25.45	46.61
SCE1572_1977	861.59	20858.47

SCE1572_4327	17.72	7.9
SCE1572_16	52.23	107.92
SCE1572_10289	140.56	157.75
SCE1572_3564	29.34	10.17
SCE1572_11366	23.79	9.32
SCE1572_9382	0	0
SCE1572_4422	11	5.67
SCE1572_4204	22.11	391.53
SCE1572_3538	16.24	7.82
SCE1572_3470	30.13	12.48
SCE1572_11519	57.45	28.17
SCE1572_631	80.56	135.49
SCE1572_10172	53.19	57.39
SCE1572_11527	46	25.63
SCE1572_11537	70.97	241.8
SCE1572_8757	17.41	13.52
SCE1572_5631	27.57	17.69
SCE1572_7048	0	0
SCE1572_4523	13.96	0
SCE1572_66	32.89	54.06
SCE1572_2703	218.37	122.55
SCE1572_7743	134.12	643.08
SCE1572_5819	31.98	15.21
SCE1572_6375	53.1	10.15
SCE1572_3893	14.55	5.53
SCE1572_3210	11.46	30.82
SCE1572_3138	78.42	1029.33
SCE1572_330	37.41	33.46
SCE1572_751	65.3	68.65
SCE1572_10219	45.81	40.15
SCE1572_8481	34.21	28.93
SCE1572_356	56.22	12.3
SCE1572_11229	12.63	13.03
SCE1572_2643	73.81	35.32
SCE1572_17	18	57.02
SCE1572_6848	11.96	0.71
SCE1572_3734	52.66	6.81
SCE1572_5066	193.01	354.85
SCE1572_7398	40.64	187.14
SCE1572_3141	36.5	13.77
SCE1572_2822	22.64	20.27
SCE1572_5919	36.94	83.74
SCE1572_2089	18.25	9.76
SCE1572_8441	52.33	108.72
SCE1572_8661	14.27	6.25
SCE1572_673	135.25	1081.64
SCE1572_9051	72.78	29.19
SCE1572_3495	61.33	36.9

SCE1572_3981	25.58	23.73
SCE1572_2495	112.86	50.73
SCE1572_10667	13.54	7.24
SCE1572_6666	39.91	189.36
SCE1572_9541	14.36	5.9
SCE1572_1888	66.89	762.04
SCE1572_3287	35.67	0
SCE1572_10134	26.57	11.29
SCE1572_5162	0	0
SCE1572_779	34.56	37.69
SCE1572_2293	32.34	41.84
SCE1572_4525	27.66	12.8
SCE1572_5768	131.18	917.47
SCE1572_2007	19.7	27.67
SCE1572_9808	405.36	1193.6
SCE1572_5244	20.97	43.86
SCE1572_1387	54.64	31.42
SCE1572_5656	20.86	6.03
SCE1572_5038	243.09	2406.68
SCE1572_10939	186.45	244.1
SCE1572_9417	194.11	2963.59
SCE1572_6053	111.96	565.63
SCE1572_3807	47.07	70.73
SCE1572_2759	34.67	181.75
SCE1572_2980	117.04	1702.97
SCE1572_3682	63.17	3.04
SCE1572_7089	30.66	27.29
SCE1572_4662	14.41	3.79
SCE1572_10402	41.14	85.64
SCE1572_8138	34.85	15.25
SCE1572_4736	77.58	629.54
SCE1572_5610	30.06	1.61
SCE1572_7507	32.52	10.93
SCE1572_9121	28.12	7.96
SCE1572_2340	0	0
SCE1572_11093	41.3	24.25
SCE1572_5217	82.82	27.47
SCE1572_170	20.89	7.45
SCE1572_10739	28.83	12.85
SCE1572_7945	11.4	0
SCE1572_11097	26.96	24.43
SCE1572_9148	58.49	310.23
SCE1572_231	1.68	0
SCE1572_8875	20.66	0
SCE1572_8333	242.27	402.54
SCE1572_4558	26.44	68.18
SCE1572_176	21.37	4.9
SCE1572_765	17.63	101.84

SCE1572_2670	38.83	10.07
SCE1572_10384	13.46	1.71
SCE1572_1938	12.09	15.87
SCE1572_6061	676.97	1874.17
SCE1572_10704	34.93	145.2
SCE1572_8298	161.28	101.02
SCE1572_9182	24.92	12.76
SCE1572_719	37.79	42.79
SCE1572_3112	5.17	0
SCE1572_2876	32.19	44.15
SCE1572_4306	15.62	9.4
SCE1572_10103	23.33	50.88
SCE1572_3097	26.02	8.64
SCE1572_1868	21.04	102.45
SCE1572_9980	16.7	41.8
SCE1572_1516	84.59	239.31
SCE1572_11070	31.59	76.03
SCE1572_5848	36.83	23.16
SCE1572_9875	42.81	90.16
SCE1572_1648	28.7	9.28
SCE1572_10648	37.42	93.54
SCE1572_3944	149.72	387.73
SCE1572_2989	100.11	60.94
SCE1572_4338	22.43	7.6
SCE1572_6773	26.23	24.09
SCE1572_9107	15.78	48.52
SCE1572_904	29.8	30.2
SCE1572_9832	13.55	3.11
SCE1572_9412	34.49	121.06
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SCE1572_7757	14.84	8.93
SCE1572_2409	93.86	747.22
SCE1572_3952	18.51	12.04
SCE1572_9548	20.91	0
SCE1572_7755	39.05	49.76
SCE1572_7468	29.57	32.76
SCE1572_5758	14.64	22.81
SCE1572_3228	62.43	126.65
SCE1572_7118	133.61	67.11
SCE1572_2138	25.7	0
SCE1572_9739	0	0
SCE1572_3118	0	0
SCE1572_2942	39.99	38.1
SCE1572_4263	41.38	21.59
SCE1572_7288	63.86	116.93
SCE1572_7631	67.77	724.32
SCE1572_4066	43.75	117.01
SCE1572_6068	16.22	1.59

SCE1572_8889	27.71	22.23
SCE1572_7022	84.06	26.1
SCE1572_290	0	0
SCE1572_5195	60.38	46.68
SCE1572_6763	57.48	84.05
SCE1572_6647	31.92	4.8
SCE1572_1633	27.51	65.46
SCE1572_8167	0	0
SCE1572_1826	35.83	11.25
SCE1572_7986	61.37	36.2
SCE1572_1775	34.66	0
SCE1572_2903	0	0
SCE1572_5797	16.99	4.54
SCE1572_9637	92.03	1287.21
SCE1572_8057	0	0
SCE1572_7102	58.82	69.21
SCE1572_4330	70.66	38.97
SCE1572_7633	439.08	712.33
SCE1572_6112	54.86	37.21
SCE1572_2126	63.34	24.01
SCE1572_9690	129.96	281.06
SCE1572_808	29.21	10.86
SCE1572_7517	62.48	119.64
SCE1572_3111	24.74	8.87
SCE1572_1127	28.71	12.96
SCE1572_2716	38.84	52.22
SCE1572_4858	42.82	25.34
SCE1572_9073	56.7	38.66
SCE1572_9623	28.45	14.61
SCE1572_2673	31.88	167.63
SCE1572_1511	89.93	670.81
SCE1572_3416	25.92	20.8
SCE1572_9974	45.88	36.81
SCE1572_9957	18.13	3.97
SCE1572_7728	0	0
SCE1572_1207	17.45	11.13
SCE1572_2249	34.82	25.61
SCE1572_6632	45.3	182.91
SCE1572_2528	1.64	1.97
SCE1572_9765	26.01	31.31
SCE1572_9042	43.2	186.39
SCE1572_9091	28.51	9.36
SCE1572_8160	13.83	4.44
SCE1572_9750	16.55	23.9
SCE1572_11001	17.63	4.24
SCE1572_4444	33.45	85.4
SCE1572_10104	38.81	105.1
SCE1572_2992	57.76	52.13

SCE1572_1617	11.45	10.86
SCE1572_9755	22.02	10.19
SCE1572_9524	30.67	34.82
SCE1572_11464	179.9	60.91
SCE1572_3879	24.56	68.21
SCE1572_984	42.36	106.26
SCE1572_6119	201.39	147.44
SCE1572_9598	107.5	1940.22
SCE1572_1235	76.02	23.38
SCE1572_3324	40.5	155.86
SCE1572_4753	89.91	258.84
SCE1572_1287	33.54	452.37
SCE1572_7531	33.9	172.08
SCE1572_9811	0	0
SCE1572_776	9.63	0
SCE1572_11588	15.62	15.72
SCE1572_7042	25.94	11.1
SCE1572_7371	21.56	8.37
SCE1572_3353	0	0
SCE1572_11476	10.55	41.25
SCE1572_7684	0	0
SCE1572_9445	30.81	20
SCE1572_11354	10.33	6.54
SCE1572_3620	18.41	5.21
SCE1572_4123	89.31	29.99
SCE1572_2798	49.17	11.84
SCE1572_8731	19.13	6.82
SCE1572_9814	40.91	217.22
SCE1572_6403	82.58	61.91
SCE1572_866	43.32	26.07
SCE1572_3005	6.89	0
SCE1572_4052	44.74	305.1
SCE1572_10295	31.46	148.28
SCE1572_4390	52.57	26.59
SCE1572_10568	82.63	205.02
SCE1572_4196	41.8	54.3
SCE1572_696	8.31	0
SCE1572_1240	61.32	18.11
SCE1572_3606	24.09	3.41
SCE1572_7029	39.37	25.18
SCE1572_1603	0	0
SCE1572_8336	86.21	40.16
SCE1572_6342	26.66	43.31
SCE1572_8880	29.06	9.12
SCE1572_10839	3.94	0
SCE1572_5676	11.45	4.75
SCE1572_1292	26.21	12.76
SCE1572_4833	88.22	942.18

SCE1572_560	215.71	3594.96
SCE1572_5050	12.9	0
SCE1572_5619	18.46	28.28
SCE1572_2779	85.91	302.53
SCE1572_5375	27.98	16.29
SCE1572_4868	19.14	12.65
SCE1572_2418	20.3	67.78
SCE1572_8025	0	0
SCE1572_1534	28	14.51
SCE1572_4313	0	0
SCE1572_1010	45.94	20.73
SCE1572_8961	10.39	5.89
SCE1572_7238	42.77	179.18
SCE1572_5057	113.5	484.5
SCE1572_2186	2.41	0
SCE1572_1788	4.59	3.69
SCE1572_8356	15.31	5.26
SCE1572_3081	9.53	45.85
SCE1572_6181	51.69	59.71
SCE1572_2847	45.97	49.54
SCE1572_2946	23.38	11.58
SCE1572_3200	101.27	488.86
SCE1572_2435	24.23	45.62
SCE1572_3996	3.35	2.02
SCE1572_6607	0	0
SCE1572_5932	18.29	18.79
SCE1572_204	56.86	34.21
SCE1572_5616	0	0
SCE1572_800	0	0
SCE1572_3469	33.57	12.57
SCE1572_320	38.03	12.2
SCE1572_3049	7.44	2.11
SCE1572_1700	90.69	145.53
SCE1572_1268	76.31	71.52
SCE1572_8794	25.03	11.37
SCE1572_109	37.28	41.88
SCE1572_5641	7.31	0
SCE1572_301	16.39	15.78
SCE1572_1640	26.33	15.37
SCE1572_4316	56.13	14.83
SCE1572_7962	62.78	617.87
SCE1572_2837	70.48	61.81
SCE1572_11316	357.31	715.02
SCE1572_6217	7.31	13.19
SCE1572_4576	2.38	0
SCE1572_8231	44.57	32.49
SCE1572_10198	54.88	21.79
SCE1572_5695	49.33	13.97

SCE1572_7425	7.87	130.82
SCE1572_10922	300.57	32336.89
SCE1572_2715	45.39	104.13
SCE1572_2110	37.06	386.93
SCE1572_922	10.23	15.67
SCE1572_9483	89.1	230.67
SCE1572_10561	0	0
SCE1572_2741	25.27	13.03
SCE1572_11131	18.27	7.69
SCE1572_11200	41.9	151.29
SCE1572_7858	55.9	63.28
SCE1572_6554	19.88	0
SCE1572_9202	17.76	22.19
SCE1572_7265	14.63	12.14
SCE1572_6975	34.71	13.19
SCE1572_2840	40.17	29.28
SCE1572_6122	60.75	172.52
SCE1572_6045	256.73	1042.1
SCE1572_2680	33.69	9.54
SCE1572_3792	4.89	0
SCE1572_6580	18.8	3.02
SCE1572_326	33.55	35.78
SCE1572_8570	5.05	0
SCE1572_5126	25.14	43.49
SCE1572_3898	30.69	94.35
SCE1572_5950	73.19	17.62
SCE1572_5986	9.83	0
SCE1572_3180	27.59	60.61
SCE1572_4539	26.62	25.29
SCE1572_978	37.35	54.21
SCE1572_7934	49.47	3.84
SCE1572_8050	48.32	9.36
SCE1572_10887	46.34	68.85
SCE1572_11237	21.39	6.43
SCE1572_9395	27.76	25.7
SCE1572_3889	12.15	6.36
SCE1572_1553	21.42	13.22
SCE1572_3825	24.72	11.9
SCE1572_3713	134.71	237.77
SCE1572_8773	72.27	78.47
SCE1572_8048	33.44	10.94
SCE1572_1054	62.08	76.86
SCE1572_10359	28.36	28.88
SCE1572_3788	53.3	98.36
SCE1572_9986	14.83	10.71
SCE1572_3311	24.68	10.61
SCE1572_9663	32.12	213.72
SCE1572_3781	77.09	675.42

SCE1572_7304	59.81	15.62
SCE1572_3678	19.87	47.82
SCE1572_3056	7.8	2.61
SCE1572_2220	32.96	92.93
SCE1572_9784	29.4	4.42
SCE1572_10521	23.02	23.35
SCE1572_9355	95.7	292.46
SCE1572_10220	39.27	47.63
SCE1572_3594	12.72	2.45
SCE1572_1437	39.02	16.1
SCE1572_10253	0	0
SCE1572_8630	74.86	428.78
SCE1572_1997	17.08	5.14
SCE1572_5261	68.69	786.3
SCE1572_155	52.06	102.24
SCE1572_5242	33.1	7.71
SCE1572_5762	10.7	4.48
SCE1572_7393	22.99	2.13
SCE1572_2036	225.44	2511.52
SCE1572_10370	26.03	9.31
SCE1572_11088	35.82	52.13
SCE1572_5116	29.45	32.54
SCE1572_6130	17.46	115.01
SCE1572_9021	7.35	7.74
SCE1572_2042	63.05	248.1
SCE1572_4303	60.65	10.68
SCE1572_11249	15.65	69.45
SCE1572_3273	26.39	137.64
SCE1572_3063	49.29	95.74
SCE1572_6938	34.58	10.24
SCE1572_11267	403.05	2452.46
SCE1572_1953	46.93	65.16
SCE1572_1329	37.63	122.53
SCE1572_6538	43.57	25.17
SCE1572_5927	124.86	36.06
SCE1572_6152	59.22	53.58
SCE1572_4996	8.92	10.73
SCE1572_9677	29.67	14.51
SCE1572_4614	61.88	25.53
SCE1572_11339	19.18	12.98
SCE1572_3394	92.11	162.84
SCE1572_4393	16.05	9.04
SCE1572_2239	61.86	54.01
SCE1572_10182	30.32	86.02
SCE1572_9643	62.2	82.66
SCE1572_1599	0	0
SCE1572_4910	3.09	0
SCE1572_8745	6.23	0

SCE1572_508	31.27	6.39
SCE1572_6279	47.7	1976.32
SCE1572_1726	38.5	22.93
SCE1572_11384	197.35	400.96
SCE1572_9910	27.99	17.97
SCE1572_1954	22.01	25.51
SCE1572_9298	86.45	177.03
SCE1572_3930	230.69	957.38
SCE1572_6035	22.91	36.37
SCE1572_3726	80.14	1866.32
SCE1572_3865	28.88	10.43
SCE1572_5781	73.77	256.85
SCE1572_8522	88.38	170.78
SCE1572_299	44.62	30.82
SCE1572_9760	25.94	56.69
SCE1572_10028	12.98	2.23
SCE1572_11375	0	0
SCE1572_7991	51.39	203.28
SCE1572_7335	34	108.37
SCE1572_8971	73.09	203.98
SCE1572_4479	10.78	19.25
SCE1572_4887	57.76	20.85
SCE1572_8579	0	0
SCE1572_6746	40.17	65.5
SCE1572_4639	18.73	2.91
SCE1572_5608	53.9	22
SCE1572_9023	548.85	1260.84
SCE1572_2229	33.6	680.08
SCE1572_11481	31.57	14.98
SCE1572_4245	26.27	92.06
SCE1572_1475	0	0
SCE1572_1925	0	0
SCE1572_1500	24.39	21.87
SCE1572_4597	0	0
SCE1572_3556	12.85	0
SCE1572_4880	122.83	320.58
SCE1572_3571	24.36	22.37
SCE1572_6843	22.66	20.78
SCE1572_1781	11.16	12.2
SCE1572_8287	36.29	112.58
SCE1572_593	51.37	92.39
SCE1572_399	28.64	16.22
SCE1572_6254	35.19	42.35
SCE1572_318	25.04	3.35
SCE1572_11596	48.58	528.23
SCE1572_9725	5.27	17.45
SCE1572_2274	43.18	9.24
SCE1572_1520	45.48	16.42

SCE1572_4355	28.93	28.81
SCE1572_3167	23.49	34.27
SCE1572_3872	63.44	157.49
SCE1572_6333	20.25	72.55
SCE1572_4366	36.27	32.3
SCE1572_6243	26.86	7.36
SCE1572_2064	32.93	29.49
SCE1572_8264	44.74	144.77
SCE1572_5424	28.13	28.9
SCE1572_678	31.59	45.62
SCE1572_338	36.86	23.8
SCE1572_9602	40.18	12.96
SCE1572_9187	27.09	47.65
SCE1572_7178	74.51	48.48
SCE1572_2320	55.47	748.92
SCE1572_1969	41.12	26.8
SCE1572_9098	37.9	12
SCE1572_7006	0	0
SCE1572_5501	18.37	14.34
SCE1572_1317	34.58	63.93
SCE1572_5061	57.89	265.4
SCE1572_7016	0	0
SCE1572_1610	78.97	60.94
SCE1572_4879	60.04	105.86
SCE1572_2661	45.48	60.82
SCE1572_6305	24.65	13.35
SCE1572_5669	24.24	8.01
SCE1572_8989	97.78	241.3
SCE1572_5992	39.17	62.85
SCE1572_6142	23.35	16.93
SCE1572_3298	12.58	10.09
SCE1572_5549	31.94	13.13
SCE1572_3189	9.58	0
SCE1572_10965	50.31	26.82
SCE1572_11106	41.71	53.14
SCE1572_6132	0	0
SCE1572_8531	24.52	30.86
SCE1572_143	12.63	30.41
SCE1572_349	21.54	74.78
SCE1572_5839	39.13	14.66
SCE1572_9685	57.4	123.4
SCE1572_3508	26.46	17.14
SCE1572_238	30.32	4.87
SCE1572_1065	71.79	18.13
SCE1572_5296	40.13	17.89
SCE1572_10153	20.18	95.74
SCE1572_8978	30.08	28
SCE1572_9593	46.86	843.54

SCE1572_8866	48.37	28.13
SCE1572_2728	14.53	11.65
SCE1572_2284	10.42	9.12
SCE1572_2149	43.15	70.68
SCE1572_1845	6.74	4.05
SCE1572_6476	79.32	902.17
SCE1572_5329	67.56	19.48
SCE1572_7242	52.66	68.49
SCE1572_10930	50.54	40.21
SCE1572_6251	42.72	18.94
SCE1572_5940	25.16	10.5
SCE1572_4516	18.59	14.13
SCE1572_6160	16.11	17.63
SCE1572_7574	57.33	316.81
SCE1572_11391	54.44	36.74
SCE1572_7466	77.74	439.3
SCE1572_6236	47.74	17.68
SCE1572_8695	14.74	21.6
SCE1572_4494	34.43	24.72
SCE1572_266	40.96	13.84
SCE1572_9393	20.52	12.35
SCE1572_7545	63.54	48.3
SCE1572_3173	38.13	22.12
SCE1572_8687	24.3	13.1
SCE1572_1101	30.72	11.25
SCE1572_11137	44.41	311.47
SCE1572_8598	0	0
SCE1572_11017	66.39	178.88
SCE1572_9996	28.84	21.99
SCE1572_2695	20.06	110.06
SCE1572_4769	22.74	100.35
SCE1572_8897	43.73	85.75
SCE1572_1747	68.34	56.61
SCE1572_7829	26.25	104.45
SCE1572_8313	14.85	10.43
SCE1572_7360	30.83	56.42
SCE1572_7482	0	0
SCE1572_8101	60.47	547.91
SCE1572_2319	36.97	246.29
SCE1572_10031	68.71	62.87
SCE1572_1003	60.23	26.99
SCE1572_10125	0.87	0
SCE1572_2422	23.46	13.03
SCE1572_5785	46.03	128.16
SCE1572_1601	5.41	0
SCE1572_3718	0	0
SCE1572_623	176.46	1527.49
SCE1572_352	24.29	33.66

SCE1572_8217	68.46	21.97
SCE1572_5546	37.47	12.39
SCE1572_1031	52.93	289.35
SCE1572_2394	12.49	12.19
SCE1572_8148	40.72	21
SCE1572_5001	115.82	587.93
SCE1572_3783	15.55	9.36
SCE1572_5413	3.33	0
SCE1572_4787	240.94	1721.36
SCE1572_6991	41.77	10.24
SCE1572_10347	40.47	116.61
SCE1572_9573	72.28	10.61
SCE1572_10997	53.69	234.46
SCE1572_7381	26.95	18.92
SCE1572_285	83.47	22.12
SCE1572_2339	25.36	147.87
SCE1572_7412	29.99	105.72
SCE1572_1175	25.87	145.28
SCE1572_4658	40.28	82.14
SCE1572_6483	36.78	12.96
SCE1572_245	18.42	4.95
SCE1572_3205	43.95	120.33
SCE1572_11513	55.07	112.41
SCE1572_7430	58.11	21.3
SCE1572_8591	77.46	20.94
SCE1572_5517	39.25	16.82
SCE1572_4946	2.92	0
SCE1572_9219	23.89	4.55
SCE1572_6006	13.42	49.42
SCE1572_2173	9.65	6.63
SCE1572_226	28.61	13.77
SCE1572_467	33.57	71.23
SCE1572_342	141.65	853.2
SCE1572_1608	17.96	12.04
SCE1572_2464	66.81	18.33
SCE1572_10585	186.47	71.31
SCE1572_9824	16.42	5.61
SCE1572_9440	22.08	28.13
SCE1572_6875	239.22	97.31
SCE1572_7977	0	0
SCE1572_10775	43.67	20.94
SCE1572_5478	31.43	26.54
SCE1572_6858	40.41	23.15
SCE1572_1307	696.27	10545.56
SCE1572_3406	54.46	23.62
SCE1572_2538	12.18	18.84
SCE1572_3466	20.32	27.59
SCE1572_9701	37.28	0

SCE1572_3213	39.16	63.44
SCE1572_4623	31.64	193.95
SCE1572_5422	11.23	0
SCE1572_2515	16.13	23.29
SCE1572_3650	18.15	11.27
SCE1572_3690	2.89	0
SCE1572_85	41.12	89.55
SCE1572_6356	32.92	17.72
SCE1572_836	30.73	32.11
SCE1572_4824	41.4	82.11
SCE1572_2313	21.72	36.11
SCE1572_7899	42.65	65.77
SCE1572_11494	13.12	4.28
SCE1572_9954	46.39	28.53
SCE1572_9671	43.41	358.68
SCE1572_8104	34.29	24.98
SCE1572_2590	18.61	21.14
SCE1572_9267	16.62	0
SCE1572_574	37.36	139.45
SCE1572_872	32.77	30.18
SCE1572_1021	57.35	16.81
SCE1572_383	35.33	39.51
SCE1572_2890	43.19	16.22
SCE1572_4624	121.72	408.61
SCE1572_1574	41.83	17.62
SCE1572_11431	44.11	27.49
SCE1572_7004	5.79	1.44
SCE1572_10982	37.29	32.37
SCE1572_842	10.19	6.13
SCE1572_7659	25.97	16.42
SCE1572_918	28.17	31.81
SCE1572_7490	60.41	62.72
SCE1572_3152	78.82	68.42
SCE1572_6521	29.86	0
SCE1572_8248	8.81	10.6
SCE1572_9512	70.1	277.34
SCE1572_7708	37.62	13.72
SCE1572_4646	23.87	15.96
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SCE1572_2354	55.72	728.29
SCE1572_3617	33.69	9.67
SCE1572_1478	37.9	15.21
SCE1572_2097	18.64	565.33
SCE1572_4357	47.81	20.55
SCE1572_7589	49.6	419.19
SCE1572_4489	34.51	50.44
SCE1572_10166	0	0
SCE1572_3072	25.42	14.77

SCE1572_2211	75.05	123.27
SCE1572_10312	85.46	60.82
SCE1572_6915	29.98	11.61
SCE1572_7627	25.1	23.17
SCE1572_3870	99.08	76.83
SCE1572_8542	82.26	533.8
SCE1572_3488	16.75	11.98
SCE1572_7889	35.31	1837.08
SCE1572_10971	2.14	10.28
SCE1572_9270	0	0
SCE1572_2312	164.52	2703.92
SCE1572_7524	15.42	58.76
SCE1572_2187	25.86	14.01
SCE1572_10331	58.7	27.05
SCE1572_5779	20.75	16.32
SCE1572_6696	21.97	7.74
SCE1572_3696	117.92	229.77
SCE1572_9905	0	0
SCE1572_56	70.17	6.03
SCE1572_7283	17.4	9.31
SCE1572_5638	24.77	19.87
SCE1572_11305	6.79	0
SCE1572_10540	73.04	25.45
SCE1572_3378	62.32	24.63
SCE1572_3498	30.32	51.34
SCE1572_10782	33.44	12.13
SCE1572_2853	48.21	26.57
SCE1572_1621	129.64	1012.79
SCE1572_8001	151.82	53.52
SCE1572_9015	0	0
SCE1572_3790	15.8	5.34
SCE1572_9939	31.25	9.6
SCE1572_7081	19.27	80.02
SCE1572_6933	12.25	44.23
SCE1572_1675	33.57	78.1
SCE1572_10338	54.19	270.06
SCE1572_7988	30.1	5.37
SCE1572_3349	32.49	22.81
SCE1572_7622	74.7	160.08
SCE1572_5172	42.88	75.56
SCE1572_6964	36.37	35.01
SCE1572_10417	1.8	0
SCE1572_3417	56.52	328.11
SCE1572_7071	22.97	24.33
SCE1572_11328	119.25	196.81
SCE1572_5976	39.98	24.64
SCE1572_5826	21.96	16.78
SCE1572_5571	6.45	2.96

SCE1572_9763	22.33	32.53
SCE1572_2541	0	0
SCE1572_4693	71.01	138.06
SCE1572_5300	43.32	17.66
SCE1572_6504	51.71	60.82
SCE1572_5497	56.63	113.88
SCE1572_9374	49.65	18.14
SCE1572_9287	205.05	886.35
SCE1572_4949	16.91	10.18
SCE1572_10018	45.61	31.51
SCE1572_4760	45.54	21.64
SCE1572_1589	0	0
SCE1572_4434	58.05	39
SCE1572_5149	25.66	12.98
SCE1572_8012	2.37	0
SCE1572_8027	12.21	14.69
SCE1572_8094	41.56	12.68
SCE1572_4409	16.67	12.94
SCE1572_6018	625.42	405.98
SCE1572_1910	55.42	22.65
SCE1572_1373	41.21	177.46
SCE1572_3481	15.68	6.29
SCE1572_11364	51.37	29.09
SCE1572_5270	39.9	8023.49
SCE1572_1244	0	0
SCE1572_879	100.56	548.01
SCE1572_3809	26.08	51.09
SCE1572_950	7.12	25.12
SCE1572_10243	23.63	0
SCE1572_8761	21.66	30.95
SCE1572_5033	122.14	2489.29
SCE1572_5946	21.74	11.16
SCE1572_667	6.68	7.78
SCE1572_2180	48.06	20.42
SCE1572_6751	83.19	84.7
SCE1572_3767	13.32	48.1
SCE1572_8201	111.84	35.38
SCE1572_74	28.98	55.14
SCE1572_1522	32.28	30.61
SCE1572_6794	17.03	26.44
SCE1572_8565	26.13	53.03
SCE1572_6983	26.54	13.17
SCE1572_4299	68.07	28.31
SCE1572_2936	36.98	13.35
SCE1572_9927	64.6	140.7
SCE1572_7835	39.73	183.44
SCE1572_9530	35.79	35.5
SCE1572_2052	0	0

SCE1572_2437	6.76	9.03
SCE1572_6831	60.21	97.61
SCE1572_7181	31.43	27.6
SCE1572_2581	26.76	55.81
SCE1572_5685	47.8	238.15
SCE1572_7291	9.72	0
SCE1572_9631	69.24	42.19
SCE1572_3124	18.52	5.57
SCE1572_11050	40.29	71.98
SCE1572_10617	118.59	43.36
SCE1572_6440	40.49	14.51
SCE1572_6419	39.5	41.91
SCE1572_2874	29.77	16.86
SCE1572_8674	20.57	86.19
SCE1572_11543	84.79	36.19
SCE1572_124	50.14	5.75
SCE1572_463	53.29	1958.15
SCE1572_2269	76.86	649.12
SCE1572_2014	39.38	7.97
SCE1572_11362	26.49	6.94
SCE1572_8089	18.34	8.61
SCE1572_10875	61.27	32.49
SCE1572_2905	25.5	239.93
SCE1572_1343	13.86	9.81
SCE1572_1942	0	0
SCE1572_3306	20.91	296.13
SCE1572_1228	18.55	32.79
SCE1572_1940	96.51	25.11
SCE1572_1682	247.37	2473.79
SCE1572_698	22.46	105.42
SCE1572_3802	41.57	35.32
SCE1572_9575	1.08	0
SCE1572_6582	15.29	46
SCE1572_1327	0	0
SCE1572_11011	0	0
SCE1572_4689	61.2	336.7
SCE1572_1876	66.12	95.49
SCE1572_4210	5.51	0
SCE1572_5576	49.31	20.77
SCE1572_2071	6.93	7.41
SCE1572_8403	66.91	47.28
SCE1572_4074	125.89	997.37
SCE1572_8413	23.37	7.21
SCE1572_971	54.6	42.11
SCE1572_4779	0	0
SCE1572_5177	47.74	26.32
SCE1572_11035	17.64	185.61
SCE1572_2898	20.37	5.45

SCE1572_6077	3.89	18.71
SCE1572_6599	33.05	59.66
SCE1572_8208	60.21	47.6
SCE1572_10807	43.41	34.31
SCE1572_9801	61.25	24.17
SCE1572_10016	9.43	90.76
SCE1572_8705	0	0
SCE1572_6104	39.82	9.22
SCE1572_149	38.81	122.74
SCE1572_4348	43.85	12.72
SCE1572_4459	45.54	18.71
SCE1572_6653	23.94	0
SCE1572_22	39.34	76.22
SCE1572_3838	0	0
SCE1572_859	265.77	7725.62
SCE1572_4472	18.28	3.88
SCE1572_883	0	0
SCE1572_8703	21.66	52.13
SCE1572_852	84.98	309.89
SCE1572_10841	22.64	5.84
SCE1572_4651	46.16	63.2
SCE1572_10180	38.03	122.47
SCE1572_6267	21.66	22.34
SCE1572_9253	12.26	3.97
SCE1572_10558	49.02	19.21
SCE1572_9033	20.72	12.16
SCE1572_6099	39.66	57.79
SCE1572_270	35.84	28.2
SCE1572_4144	51.53	234.93
SCE1572_10722	115.71	38.41
SCE1572_4387	23.38	23.87
SCE1572_7440	22.03	15.59
SCE1572_4606	21.06	162.19
SCE1572_7298	60.1	13.95
SCE1572_2146	39.72	11.23
SCE1572_5409	2.23	0
SCE1572_10003	10.83	10.43
SCE1572_11163	31	211.03
SCE1572_8801	0	0
SCE1572_5724	0	0
SCE1572_8768	21.09	15.87
SCE1572_8717	18.38	5.53
SCE1572_5373	30.61	478
SCE1572_7416	79.38	415.37
SCE1572_6597	96.06	61.28
SCE1572_9793	24.46	18.59
SCE1572_8644	29.45	21.41
SCE1572_3691	118.05	24.59

SCE1572_7388	20.01	12.97
SCE1572_5004	20.49	66.57
SCE1572_5238	74.3	79.24
SCE1572_7254	10.87	0.67
SCE1572_3476	42.1	115.24
SCE1572_4108	64.72	32.99
SCE1572_10084	43.9	99.52
SCE1572_10610	16.62	5
SCE1572_2612	16.63	10.3
SCE1572_4900	28.55	9.56
SCE1572_6579	32.54	24.99
SCE1572_8909	30.94	14.89
SCE1572_4133	7.24	5.45
SCE1572_8468	25.43	55.38
SCE1572_11178	0	0
SCE1572_8008	92.65	1943.36
SCE1572_11440	44.22	30.41
SCE1572_10681	24.26	26.27
SCE1572_10109	40.37	125.59
SCE1572_4743	30.93	32.11
SCE1572_659	68.23	0
SCE1572_11288	45.6	374.65
SCE1572_8408	38.9	35.11
SCE1572_11317	110.01	143.42
SCE1572_10412	10.51	7.23
SCE1572_9435	175.54	856.5
SCE1572_458	31.4	17.51
SCE1572_8424	58.1	85.26
SCE1572_1975	37.18	136.26
SCE1572_3518	12	3.94
SCE1572_1964	23.82	6.99
SCE1572_402	47.75	14.11
SCE1572_505	7.89	2.71
SCE1572_1064	45.48	17.58
SCE1572_5014	62.31	367.28
SCE1572_2931	0	0
SCE1572_6421	27.28	4.31
SCE1572_11152	21.66	14.48
SCE1572_7357	15.39	19.09
SCE1572_7060	71.19	25.39
SCE1572_4051	158.14	829.9
SCE1572_6721	79.05	377.4
SCE1572_5139	40.27	19.96
SCE1572_9366	9.15	1.38
SCE1572_8998	99.25	597.7
SCE1572_3050	21.34	2.7
SCE1572_9162	177.1	6.13
SCE1572_4088	47.18	56.59

SCE1572_3638	59.73	24.88
SCE1572_112	10.11	0
SCE1572_944	82.87	26.54
SCE1572_8781	42.68	903.01
SCE1572_8255	56.86	80.17
SCE1572_10114	21.13	2.76
SCE1572_378	36.5	36.04
SCE1572_6474	30.52	92.42
SCE1572_1151	13.78	47.39
SCE1572_3373	45.16	19.41
SCE1572_707	67.17	518.51
SCE1572_10043	53.42	1212.94
SCE1572_5806	44.14	120.1
SCE1572_8629	25.75	94.67
SCE1572_789	0	0
SCE1572_7654	19.14	12.9
SCE1572_11227	52.62	47.23
SCE1572_9610	25.43	13.6
SCE1572_3759	25.87	29.07
SCE1572_8431	48.37	22.59
SCE1572_6394	636.02	241.22
SCE1572_4813	34.42	241.52
SCE1572_956	0	0
SCE1572_9964	51.72	18.99
SCE1572_3095	40.97	75.56
SCE1572_1045	34.41	42.7
SCE1572_9929	23.49	0
SCE1572_4715	41.19	107.84
SCE1572_4466	30.51	15.3
SCE1572_5790	22.3	60.1
SCE1572_10673	12.67	22.45
SCE1572_5555	44.12	51.6
SCE1572_4416	43.62	13.22
SCE1572_1095	34.92	234.43
SCE1572_1561	24.78	12.87
SCE1572_11536	29.69	59.56
SCE1572_931	320.25	6326.56
SCE1572_10824	143.36	273.07
SCE1572_10989	14.39	32.94
SCE1572_10632	0	0
SCE1572_8849	25.91	16.36
SCE1572_1369	51.29	97.46
SCE1572_8873	42.46	10.98
SCE1572_7841	26.46	14.69
SCE1572_6954	25.18	10.32
SCE1572_6734	32.45	78.11
SCE1572_277	48.05	28.02
SCE1572_6792	26.28	158.96

SCE1572_1930	72.5	131.33
SCE1572_6904	61.19	10.99
SCE1572_8436	83.03	61.39
SCE1572_5740	23.75	43.97
SCE1572_2501	21.41	55.67
SCE1572_6364	26.72	321.55
SCE1572_6853	46.81	47.9
SCE1572_6998	48.38	35.5
SCE1572_5197	8.83	0
SCE1572_2307	18.76	13.55
SCE1572_442	40.82	39.77
SCE1572_5755	60.84	197.51
SCE1572_1506	46.07	15.07
SCE1572_5989	0	4.65
SCE1572_5735	33.8	70.89
SCE1572_748	8.1	92.12
SCE1572_2480	15.16	5.21
SCE1572_4219	38.23	36.6
SCE1572_84	14.67	87.11
SCE1572_1353	38.42	24.66
SCE1572_9971	54.55	403.17
SCE1572_3015	44.66	15.92
SCE1572_1688	11.08	16.84
SCE1572_5883	42.07	53.5
SCE1572_46	82.91	167.58
SCE1572_8942	47.2	36.72
SCE1572_6298	25.01	53.51
SCE1572_10480	27.44	86.89
SCE1572_358	41.99	29.76
SCE1572_9328	54.04	70.06
SCE1572_11506	33.47	34.12
SCE1572_1422	18.11	17.56
SCE1572_7771	31.89	148.12
SCE1572_10041	27.8	0
SCE1572_3400	36.15	209.88
SCE1572_4564	32.49	29.79
SCE1572_7216	58.81	20.78
SCE1572_8620	32.21	168.28
SCE1572_7538	75.62	40.35
SCE1572_3101	10.6	63.8
SCE1572_7310	23.01	18.79
SCE1572_1841	127.3	929.52
SCE1572_8951	0	0
SCE1572_1109	0	0
SCE1572_4233	11.4	6.04
SCE1572_5651	0	0
SCE1572_6824	141.07	341.12
SCE1572_4772	26.8	6.53

SCE1572_10701	0	0
SCE1572_2548	25.46	9.29
SCE1572_8226	13.66	18.79
SCE1572_6678	173.63	680.63
SCE1572_9976	0	0
SCE1572_10309	72.58	2.59
SCE1572_10850	35.4	15.04
SCE1572_2619	18.11	8.96
SCE1572_10448	23.53	39.85
SCE1572_9314	64.15	76.61
SCE1572_10513	0	0
SCE1572_3255	13	88.62
SCE1572_447	29.98	23.15
SCE1572_5309	26.59	35.4
SCE1572_4922	60.65	12.16
SCE1572_10111	63.78	462.44
SCE1572_10948	45.01	45.28
SCE1572_10603	0	0
SCE1572_9947	10.95	12.16
SCE1572_8828	14.77	6.89
SCE1572_4063	49.51	75.54
SCE1572_7816	29.81	198.86
SCE1572_11439	80.5	39.33
SCE1572_5087	63.28	521.75
SCE1572_10390	50.14	24.99
SCE1572_4984	63.45	21.82
SCE1572_962	270.34	133.7
SCE1572_6731	0	0
SCE1572_6274	112.52	651.81
SCE1572_9403	78.4	45.72
SCE1572_811	14.52	7.76
SCE1572_2950	3.03	0
SCE1572_7992	58.01	5.78
SCE1572_4011	87.27	246.3
SCE1572_6865	40.12	30.23
SCE1572_184	17.84	0
SCE1572_3282	13.3	6.4
SCE1572_902	58.07	15.53
SCE1572_4283	13	20.85
SCE1572_6898	50.44	126.98
SCE1572_3025	37.28	13.16
SCE1572_6173	32.72	145.97
SCE1572_10123	182.83	168.66
SCE1572_4703	36.39	10.7
SCE1572_8151	37.46	15.03
SCE1572_5490	73.74	31.91
SCE1572_8063	8.75	0
SCE1572_2627	60.01	23.57

SCE1572_7197	49.63	26.13
SCE1572_1417	133.83	65.33
SCE1572_1725	33.98	68.69
SCE1572_1628	53.67	94.73
SCE1572_1088	34.99	5.61
SCE1572_8112	40.87	12.58
SCE1572_4165	45.91	13.08
SCE1572_8032	0	0
SCE1572_4701	62.29	46.95
SCE1572_9146	0	0
SCE1572_7488	45.24	79.46
SCE1572_11458	73.33	126.41
SCE1572_8606	1.99	0
SCE1572_6672	0	0
SCE1572_2497	51.5	36.41
SCE1572_1834	9.87	8.64
SCE1572_5445	36.26	17.45
SCE1572_6338	29.13	80.89
SCE1572_4951	13.46	6.82
SCE1572_1853	62.95	19.4
SCE1572_8353	336.53	1797.9
SCE1572_3978	35.29	26.32
SCE1572_6754	109.25	30.72
SCE1572_1385	24.36	20.22
SCE1572_8476	118.2	98.43
SCE1572_10644	87.78	1943.24
SCE1572_9231	29.48	4.05
SCE1572_8190	39.93	13.57
SCE1572_2845	42.42	0
SCE1572_11599	11.54	4.51
SCE1572_10978	349.64	1176.69
SCE1572_1715	37.35	44.95
SCE1572_8492	134.28	252.83
SCE1572_10207	24.02	28.9
SCE1572_7058	38.55	12.37
SCE1572_10278	10.61	1.82
SCE1572_3458	91.54	20.66
SCE1572_9348	56.93	51.73
SCE1572_4112	37.04	11.14
SCE1572_8726	48.4	22.27
SCE1572_4380	18.06	6.72
SCE1572_1848	69.72	34.37
SCE1572_2087	0	0
SCE1572_3332	0	0
SCE1572_649	0	0
SCE1572_7681	20.42	15.13
SCE1572_10768	6.79	0
SCE1572_3366	21.43	373.95

SCE1572_642	68.64	146.85
SCE1572_495	0	0
SCE1572_8682	19.84	51.16
SCE1572_10830	14.26	7.63
SCE1572_7033	49.34	17.38
SCE1572_9004	19.01	5.58
SCE1572_6210	47.36	26.45
SCE1572_1318	11.72	3.53
SCE1572_10861	373.22	1467.88
SCE1572_5279	86.3	66.97
SCE1572_1757	47.32	24.64
SCE1572_11216	29.87	27.23
SCE1572_1196	24.73	37.53
SCE1572_10504	39.69	46.99
SCE1572_5466	45.41	21.02
SCE1572_3924	33.69	243.28
SCE1572_8855	103.99	252.64
SCE1572_2551	23.11	13.35
SCE1572_5458	27.97	7.81
SCE1572_6620	31.88	20.59
SCE1572_8188	0	0
SCE1572_7975	15.94	2.07
SCE1572_7279	3.16	0
SCE1572_4931	62.08	39.32
SCE1572_1311	219.41	2356.21
SCE1572_11144	28.74	20.75
SCE1572_5963	34.14	17.72
SCE1572_6383	32.75	0
SCE1572_829	30.82	14.04
SCE1572_5384	14.24	15.12
SCE1572_1487	123.09	61.42
SCE1572_8840	66.75	27.54
SCE1572_523	39.98	63.74
SCE1572_3667	10.01	1.85
SCE1572_7557	25.41	10.19
SCE1572_1166	43.41	23.31
SCE1572_11125	17.99	16.49
SCE1572_1184	40.03	18.19
SCE1572_7067	85.18	4.1
SCE1572_5834	11.87	237.99
SCE1572_1163	14.01	22.88
SCE1572_4018	27.76	23.38
SCE1572_7445	69.34	36.78
SCE1572_1434	67.94	37.89
SCE1572_9655	19.52	2.56
SCE1572_7673	52.99	14.22
SCE1572_8245	24.34	37.83
SCE1572_4717	18.95	10.95

SCE1572_1580	30.43	13.32
SCE1572_5583	41.59	24.76
SCE1572_6541	16.61	11.61
SCE1572_9920	58.05	25.93
SCE1572_9846	37.56	6.7
SCE1572_1577	28.43	9.65
SCE1572_5334	128.04	398.19
SCE1572_6943	10.83	2.61
SCE1572_3108	34.73	18.58
SCE1572_9279	13.71	10.68
SCE1572_6286	7.13	0
SCE1572_8816	38.41	10.95
SCE1572_8082	0	0
SCE1572_3655	17.58	0
SCE1572_10716	55.13	12.06
SCE1572_11235	19.83	8.95
SCE1572_9715	9	5.41
SCE1572_11294	18.55	3.88
SCE1572_7203	0	0
SCE1572_8035	23.03	15.44
SCE1572_6584	68.23	173.34
SCE1572_8461	104.05	110.91
SCE1572_1336	27.66	91.23
SCE1572_793	206.04	275.1
SCE1572_7665	72.43	8.86
SCE1572_2794	6.41	0
SCE1572_6889	67.87	20.85
SCE1572_9744	34.46	147.21
SCE1572_3750	31.81	11.04
SCE1572_4096	18.49	0
SCE1572_2359	24.16	58.16
SCE1572_8788	0	0
SCE1572_6826	16.85	83.12
SCE1572_3548	30.32	15.81
SCE1572_11159	19.53	33.58
SCE1572_408	20.99	20.03
SCE1572_5227	4.1	0
SCE1572_11130	39.46	22.46
SCE1572_10467	67.08	141.11
SCE1572_3438	0	0
SCE1572_6817	71.65	10
SCE1572_7186	23.94	11.82
SCE1572_96	27.62	26.87
SCE1572_6495	9.05	0
SCE1572_8418	29.69	16.24
SCE1572_7341	46.34	125.53
SCE1572_7078	0	0
SCE1572_10851	23.71	48.6

SCE1572_7495	48.77	17.86
SCE1572_1364	604.14	3379.26
SCE1572_8373	62.77	128.4
SCE1572_1409	113.54	33.02
SCE1572_8385	39.63	17.03
SCE1572_3261	28.98	47.15
SCE1572_10236	132.6	82.75
SCE1572_511	44.03	37.68
SCE1572_4374	34.24	0
SCE1572_5181	34.21	1118.16
SCE1572_151	16.73	7.55
SCE1572_9345	23.92	47.83
SCE1572_9339	179.35	1426.31
SCE1572_3679	29.91	14.89
SCE1572_2753	22.82	7.85
SCE1572_409	25.75	13.77
SCE1572_8963	50.79	34.16
SCE1572_5866	40.03	37.95
SCE1572_9943	151.62	513.51
SCE1572_6922	24.21	205.46
SCE1572_7576	10.88	10.97
SCE1572_10653	318.25	2652.83
SCE1572_3540	113.26	39.57
SCE1572_6624	21.73	24.96
SCE1572_1407	13.74	12.8
SCE1572_7668	15.37	11.31
SCE1572_11058	59.77	64.33
SCE1572_11351	72.08	31.48
SCE1572_4301	60.45	18.64
SCE1572_11186	28.18	4.31
SCE1572_4581	26.93	12
SCE1572_7793	49.5	29.08
SCE1572_10556	0	0
SCE1572_4424	31.42	11.11
SCE1572_6548	0	0
SCE1572_11520	36.18	12.44
SCE1572_9256	610.73	806.94
SCE1572_2808	72.05	27.6
SCE1572_5481	10.83	4.34
SCE1572_1399	16.14	12.49
SCE1572_3976	45.11	60.32
SCE1572_11220	35.25	13.95
SCE1572_5675	17.91	25.06
SCE1572_8046	7.78	0
SCE1572_3532	37.03	13.45
SCE1572_497	25.27	3.5
SCE1572_5045	36.01	52.46
SCE1572_7862	53.92	269.3

SCE1572_10457	0	0
SCE1572_3988	33.32	42.11
SCE1572_4427	40.37	7.91
SCE1572_2966	48.29	24.91
SCE1572_1302	17.42	135.1
SCE1572_2224	20.72	8.31
SCE1572_3722	69.24	3187.94
SCE1572_8483	9.79	12.04
SCE1572_868	45.34	99.76
SCE1572_6323	26.9	34.33
SCE1572_2738	12.93	5.19
SCE1572_551	33.82	53.33
SCE1572_2777	28.51	10.72
SCE1572_10497	58.36	40.55
SCE1572_3054	14.21	0
SCE1572_9102	0	0
SCE1572_8755	87.42	19.73
SCE1572_418	102.88	25.6
SCE1572_2763	32.92	13.36
SCE1572_2782	28.3	22.7
SCE1572_8075	22.32	28.02
SCE1572_8351	20.81	9.54
SCE1572_3440	87.04	34.46
SCE1572_5891	50.87	76.83
SCE1572_687	42.45	12.51
SCE1572_8834	43.26	26.51
SCE1572_8177	26.21	12.9
SCE1572_207	0	0
SCE1572_3032	16.92	17.92
SCE1572_10055	246.13	500.8
SCE1572_3818	19.67	62.63
SCE1572_5068	140.69	163.56
SCE1572_8131	24.63	14.82
SCE1572_2508	37.24	20.63
SCE1572_10008	16.29	9.31
SCE1572_374	35.85	14.83
SCE1572_1856	30.28	12.33
SCE1572_4912	25.27	30.41
SCE1572_9600	125.52	696.94
SCE1572_7917	200.63	339.93
SCE1572_10874	33.9	22.67
SCE1572_11091	39.13	57.55
SCE1572_186	52.74	34.17
SCE1572_9095	46.3	95.52
SCE1572_9559	29.07	39.71
SCE1572_6572	27.19	36.17
SCE1572_9421	51.59	392.16
SCE1572_1864	0	0

SCE1572_332	33.23	84.98
SCE1572_7794	5.69	10.28
SCE1572_1172	24.61	22.21
SCE1572_275	147.88	62.92
SCE1572_2385	41.77	65.66
SCE1572_3762	35.55	89.51
SCE1572_3689	11.93	18.52
SCE1572_1411	39.04	11.8
SCE1572_7456	29.04	15.46
SCE1572_8588	34.66	24.76
SCE1572_3566	33.65	12.68
SCE1572_8290	57.83	19.57
SCE1572_10780	42.59	49.2
SCE1572_7008	0	0
SCE1572_7731	23.78	10.73
SCE1572_324	24.82	20.66
SCE1572_2609	48.58	40.32
SCE1572_9401	28.99	56.35
SCE1572_8525	80.77	98.9
SCE1572_9917	59.75	27.83
SCE1572_9467	22.48	26.59
SCE1572_1069	46.82	10.34
SCE1572_3292	46.34	162.41
SCE1572_3169	33.29	73.72
SCE1572_5164	13.63	295.22
SCE1572_10170	34.1	46.11
SCE1572_4247	51.48	52.89
SCE1572_6962	33.3	56.27
SCE1572_6846	41.49	314.99
SCE1572_7255	100.66	631.85
SCE1572_2472	58.42	1710.78
SCE1572_9380	6.45	3.88
SCE1572_608	66.49	107.77
SCE1572_1253	22.02	10.19
SCE1572_10490	20.86	28.17
SCE1572_3421	20.99	27
SCE1572_7373	38.56	20.45
SCE1572_10214	61.22	75.98
SCE1572_2349	43.73	53.77
SCE1572_2276	67.09	368.74
SCE1572_2721	307.56	243.28
SCE1572_7020	35.7	6.52
SCE1572_19	49.86	238.81
SCE1572_7011	95.48	64.11
SCE1572_2701	26.91	12.51
SCE1572_7597	58.75	260.01
SCE1572_2824	34.7	25.85
SCE1572_5544	31.6	7.7

SCE1572_1255	43	32.12
SCE1572_8202	76.27	20.46
SCE1572_11095	33.06	13.72
SCE1572_6634	22.17	8.36
SCE1572_11539	33.1	7.97
SCE1572_7590	59.2	77.71
SCE1572_2982	0	0
SCE1572_3642	70.68	28.23
SCE1572_4673	23.48	28.61
SCE1572_8381	32.45	31.06
SCE1572_3684	34	4.42
SCE1572_11068	46.49	78.83
SCE1572_5215	83.52	203.59
SCE1572_9176	0	0
SCE1572_7660	37.83	10.93
SCE1572_2295	13.78	0
SCE1572_1951	41.84	14.39
SCE1572_10914	20.14	19.24
SCE1572_3771	31.98	42.05
SCE1572_4734	32.67	45.29
SCE1572_9248	32.85	44.31
SCE1572_9044	37.18	28.23
SCE1572_7753	16.85	10.14
SCE1572_2459	47.09	43.07
SCE1572_619	10.8	23
SCE1572_2208	18.38	11.06
SCE1572_6685	37.1	21.47
SCE1572_8140	20.99	117.1
SCE1572_2100	1.58	3.8
SCE1572_7943	31.8	131.73
SCE1572_3561	24.79	8.95
SCE1572_2812	48.32	52.28
SCE1572_2616	29.81	87.09
SCE1572_11378	20.79	169.95
SCE1572_7741	46.32	40.06
SCE1572_2788	47.69	32.37
SCE1572_10737	36.96	63.93
SCE1572_7952	174.17	512.03
SCE1572_8556	49.82	129.22
SCE1572_6446	8.83	3.54
SCE1572_7823	103.13	466.8
SCE1572_2620	55.94	34.43
SCE1572_3539	38.48	16.7
SCE1572_4863	43.32	44.68
SCE1572_758	8.92	8.35
SCE1572_2022	130.46	1284.31
SCE1572_1531	18.05	14.22
SCE1572_3493	36.88	15.3

SCE1572_9001	555.93	932.58
SCE1572_3160	78.97	65.89
SCE1572_6856	68.77	45.86
SCE1572_8396	43.01	183.76
SCE1572_7565	18.95	8.4
SCE1572_10607	36.47	68.85
SCE1572_4457	43.32	56.36
SCE1572_6302	78.25	1121.52
SCE1572_686	20.33	6.22
SCE1572_9609	88.78	339.95
SCE1572_6534	42.62	9.86
SCE1572_1067	39.81	11.62
SCE1572_8549	36.26	15.87
SCE1572_10335	109.19	266.16
SCE1572_6230	24.22	28.07
SCE1572_8511	41.64	34.69
SCE1572_3376	19.44	163.75
SCE1572_9056	45.62	18.77
SCE1572_6493	24.75	18.62
SCE1572_6929	22.38	5.77
SCE1572_7439	11.97	0
SCE1572_1885	14.26	61.8
SCE1572_1143	35.5	60.52
SCE1572_5873	36.36	25.9
SCE1572_10362	35.24	368.92
SCE1572_935	55.34	187.43
SCE1572_8154	31.74	6.84
SCE1572_5588	25.36	9.29
SCE1572_5557	41.17	94.97
SCE1572_10329	39.77	49.85
SCE1572_9506	24.59	9.35
SCE1572_1129	33.5	15.51
SCE1572_10473	73.97	491.81
SCE1572_9261	53.01	15.31
SCE1572_11027	47.53	31.56
SCE1572_10021	95.36	40.64
SCE1572_5766	232.33	1234.76
SCE1572_8864	51.02	0
SCE1572_8784	23.71	120.71
SCE1572_3341	217.9	478.59
SCE1572_8426	19.72	0
SCE1572_3308	11.44	1.38
SCE1572_5817	7.78	0
SCE1572_8452	27.04	230.11
SCE1572_11319	65.98	16.89
SCE1572_11590	14.09	10.53
SCE1572_638	33.88	47
SCE1572_676	21	7.62

SCE1572_924	152.75	620.91
SCE1572_477	13.65	12.11
SCE1572_5854	7.4	0
SCE1572_8399	53.38	65.42
SCE1572_9778	57.71	241.71
SCE1572_10799	77.25	68.95
SCE1572_6307	68.88	78.39
SCE1572_9318	257.91	396.74
SCE1572_8454	18.08	41.29
SCE1572_10319	52.91	85.53
SCE1572_11003	106.45	236.81
SCE1572_2102	24.64	84.39
SCE1572_9742	46.85	67.24
SCE1572_11176	22.61	144.05
SCE1572_9915	110.61	57.58
SCE1572_3158	25.95	14.56
SCE1572_1959	1.92	0
SCE1572_11222	64.34	27.61
SCE1572_1390	54.9	173.82
SCE1572_8976	10.99	2.64
SCE1572_9109	7.9	7.6
SCE1572_8307	848.7	43.62
SCE1572_5075	4.17	1.67
SCE1572_5368	19.93	10.28
SCE1572_4535	55.25	24.74
SCE1572_1060	0	0
SCE1572_10024	29.24	19.56
SCE1572_7131	19.65	3.38
SCE1572_3131	25.98	13.49
SCE1572_9820	116.44	97.24
SCE1572_9221	51.99	36.99
SCE1572_2830	21.9	4.05
SCE1572_8737	50.22	23.24
SCE1572_397	40.43	30.41
SCE1572_8722	28.66	9.08
SCE1572_6430	33.59	34.75
SCE1572_10990	57.68	63.46
SCE1572_2957	145.5	81.49
SCE1572_2633	45.96	3.5
SCE1572_2152	25.63	34.27
SCE1572_8609	37.41	21.69
SCE1572_2351	36.14	450.55
SCE1572_4214	0	0
SCE1572_10179	60.75	280.34
SCE1572_4310	68.39	21.15
SCE1572_2901	0	0
SCE1572_4780	40.27	67.51
SCE1572_2325	13.1	69.1

SCE1572_5726	32.24	250.12
SCE1572_4085	37.34	12.58
SCE1572_10771	28.77	18.65
SCE1572_4758	77.5	42.65
SCE1572_5256	41.35	16.59
SCE1572_1299	48.8	23.49
SCE1572_5810	5204.42	6531.47
SCE1572_6758	26.84	14.84
SCE1572_4391	33.01	13.05
SCE1572_9224	49.19	10.6
SCE1572_5469	78.37	16.48
SCE1572_9835	17.62	30.84
SCE1572_8593	0	0
SCE1572_11483	217.75	302.81
SCE1572_1668	35.31	28.99
SCE1572_1459	47.25	17.79
SCE1572_3583	30.05	16.94
SCE1572_412	15.64	16.36
SCE1572_600	1.65	0
SCE1572_9438	27.02	52.39
SCE1572_2566	27.99	0
SCE1572_9883	42.41	51.04
SCE1572_6088	25.65	65.96
SCE1572_2140	41.26	19.86
SCE1572_10421	30.32	13.84
SCE1572_177	14.1	4.24
SCE1572_10303	85.02	50.68
SCE1572_8851	10.7	103.04
SCE1572_9275	49.25	59.03
SCE1572_7141	27.49	8.02
SCE1572_5063	7.34	5.89
SCE1572_1703	80.79	89.02
SCE1572_10427	7.22	4.34
SCE1572_4378	179.18	20.42
SCE1572_9816	13.91	21.2
SCE1572_5436	64.98	25.32
SCE1572_7434	20.61	88.57
SCE1572_8193	25.51	8.77
SCE1572_2565	41.77	116.95
SCE1572_2288	37.46	54.38
SCE1572_3407	98.32	255.81
SCE1572_451	13.45	25.01
SCE1572_10258	25.27	4.34
SCE1572_10908	47.69	85.34
SCE1572_6533	86	10.67
SCE1572_9584	23.34	24.8
SCE1572_11239	30.59	11.91
SCE1572_6703	25.2	16.11

SCE1572_11426	44.96	65.43
SCE1572_11433	74.79	148.25
SCE1572_7054	24.09	23.87
SCE1572_10145	192.69	309.49
SCE1572_6669	15.66	16.59
SCE1572_424	30.44	171.4
SCE1572_7603	23.74	7.37
SCE1572_5010	86.45	506.08
SCE1572_8712	33.18	13.52
SCE1572_1532	37.38	134.97
SCE1572_4541	79.68	24.22
SCE1572_11156	43.14	44.5
SCE1572_2923	73.76	35.75
SCE1572_8324	66.21	23.9
SCE1572_4907	38.29	63.89
SCE1572_1086	40.6	51.18
SCE1572_138	30.32	38.41
SCE1572_3447	48.87	78.41
SCE1572_11404	26.57	18.81
SCE1572_3467	49.52	25.01
SCE1572_2077	30.88	41.04
SCE1572_1034	52.4	18.06
SCE1572_9949	69.89	20.7
SCE1572_6714	100.06	244.5
SCE1572_10060	0	0
SCE1572_1650	12.38	7.45
SCE1572_3244	108.91	241.57
SCE1572_2213	32.17	71.37
SCE1572_1321	36.61	81.41
SCE1572_11242	95.72	48.77
SCE1572_727	38.21	8.9
SCE1572_1447	34.18	13.13
SCE1572_3859	52.83	83.66
SCE1572_7886	24.99	112.28
SCE1572_10741	21.76	32.1
SCE1572_5400	13.51	7.23
SCE1572_11565	31.42	65.75
SCE1572_6214	13.24	4.4
SCE1572_6468	29.98	9.71
SCE1572_10937	31.05	99.92
SCE1572_8931	17.01	7.23
SCE1572_5964	13.78	12.76
SCE1572_8632	23.24	90.56
SCE1572_3887	32.88	116.37
SCE1572_7678	35.2	420.31
SCE1572_2009	49.6	13.57
SCE1572_4732	16.93	12.97
SCE1572_9734	29.6	86.89

SCE1572_7472	71.02	121
SCE1572_3191	0	0
SCE1572_5760	18.34	9.81
SCE1572_558	44.47	324.38
SCE1572_645	5.41	18.25
SCE1572_11076	13.28	251.53
SCE1572_7111	24.08	23.19
SCE1572_8934	12.09	5.6
SCE1572_6047	9.94	149.56
SCE1572_7091	34.49	28.54
SCE1572_9453	21.31	42.5
SCE1572_2237	90.44	70.42
SCE1572_8524	44.49	262.15
SCE1572_10151	39	271.04
SCE1572_3396	79.17	74.06
SCE1572_9789	12.52	9.77
SCE1572_10660	6.87	0
SCE1572_906	43.21	0
SCE1572_7351	15.49	6.07
SCE1572_1804	2.27	0
SCE1572_7529	34.66	15.64
SCE1572_7789	0	0
SCE1572_10748	21.14	43.86
SCE1572_1989	0	4.62
SCE1572_1949	4.81	0
SCE1572_6237	27.07	11.73
SCE1572_9782	36.05	25.52
SCE1572_7306	6.69	0
SCE1572_2281	36.07	16.19
SCE1572_7964	31.73	29.7
SCE1572_7423	83.99	133.89
SCE1572_5667	3.89	0
SCE1572_10563	38.42	28.45
SCE1572_7275	71.78	27.18
SCE1572_11133	38.35	24.69
SCE1572_9114	3.65	0
SCE1572_7239	0	0
SCE1572_4027	41.66	111.12
SCE1572_5905	0	0
SCE1572_7267	58.09	18.76
SCE1572_2133	61.57	16.08
SCE1572_10810	84.47	185.07
SCE1572_4116	12.84	1.72
SCE1572_5080	164.77	1102.68
SCE1572_8448	36.22	12.35
SCE1572_7157	60.19	22.88
SCE1572_2129	23.78	16.1
SCE1572_794	170.99	241.14

SCE1572_4368	31.92	120.04
SCE1572_11311	47.72	22.16
SCE1572_11337	18.08	10.04
SCE1572_9843	33.13	104.59
SCE1572_2222	30.09	25.07
SCE1572_5124	42.18	4.12
SCE1572_1070	19.47	1.12
SCE1572_1187	41.94	2.59
SCE1572_545	21.62	4.79
SCE1572_2849	0	0
SCE1572_2230	50.74	171.07
SCE1572_1076	25.27	53.67
SCE1572_3932	765.83	4832.6
SCE1572_7165	80.59	19.73
SCE1572_10357	37.04	350.66
SCE1572_1051	24.24	18.03
SCE1572_7137	35.56	8.07
SCE1572_3023	37.9	16.19
SCE1572_7337	58.24	234.93
SCE1572_11344	71.16	275.42
SCE1572_11394	82.43	308.24
SCE1572_11594	80.74	505.02
SCE1572_3525	57.76	793.34
SCE1572_3917	123.47	76.08
SCE1572_7408	23.87	128.4
SCE1572_7932	18.08	12.76
SCE1572_3065	18.19	20.44
SCE1572_1835	42.64	38.77
SCE1572_5417	72.31	97.69
SCE1572_6263	20.14	18.71
SCE1572_2908	33.43	46.78
SCE1572_4998	16.8	34.96
SCE1572_5705	53.7	66.52
SCE1572_11269	33.33	41.68
SCE1572_10778	50.97	44.26
SCE1572_1114	38.53	158.6
SCE1572_1515	18.09	49.76
SCE1572_10885	30.99	16.84
SCE1572_6780	0	0
SCE1572_4885	39.74	20.08
SCE1572_329	24.48	52.72
SCE1572_7039	36.83	15.46
SCE1572_2000	4.07	0
SCE1572_9025	63.17	243.28
SCE1572_4176	90.69	39.69
SCE1572_3506	90.21	266.39
SCE1572_6256	28.55	12.21
SCE1572_5642	9.89	10.58

SCE1572_2374	149.17	1268.4
SCE1572_5660	33.34	8.51
SCE1572_7032	37.31	17.92
SCE1572_4616	8.61	4.15
SCE1572_10293	0	0
SCE1572_8577	0	0
SCE1572_3910	81.13	155.25
SCE1572_1431	4.97	0
SCE1572_4795	45.1	122.41
SCE1572_316	49.19	26.02
SCE1572_5633	30.72	22.02
SCE1572_3703	26.91	11.88
SCE1572_4595	12.42	11.21
SCE1572_10587	39.43	12.03
SCE1572_10763	2.71	0
SCE1572_10935	15.98	13.42
SCE1572_4963	109.81	427.13
SCE1572_6137	10.78	13.84
SCE1572_6748	37.67	22.12
SCE1572_5606	12.38	10.43
SCE1572_9687	138.22	301.61
SCE1572_2832	20.02	35.44
SCE1572_1818	19.23	24.51
SCE1572_4454	22.24	14.6
SCE1572_221	54.64	58.54
SCE1572_6037	9.63	0
SCE1572_11273	54.75	236.95
SCE1572_6277	56.93	65.54
SCE1572_3590	16.08	0
SCE1572_9591	45.94	606.7
SCE1572_6556	31.63	10.07
SCE1572_9625	20.85	15.37
SCE1572_4274	53	272.95
SCE1572_3501	15.43	13
SCE1572_10414	37.03	50.45
SCE1572_5925	27.6	41.2
SCE1572_11104	10.83	72.98
SCE1572_3573	11.14	0.96
SCE1572_9635	68.39	69.07
SCE1572_9194	31.22	49.37
SCE1572_2062	94.25	64.11
SCE1572_1990	41.88	22.4
SCE1572_9006	48.42	68.47
SCE1572_4254	8.92	3.07
SCE1572_6660	38.97	37.26
SCE1572_6434	136.98	37.03
SCE1572_9096	37.9	101.96
SCE1572_11386	102.18	417.2

SCE1572_5521	42.93	47.56
SCE1572_2842	8.29	0
SCE1572_10730	17.97	4.05
SCE1572_2286	14.28	34.36
SCE1572_11466	32.62	22.69
SCE1572_1440	38.96	46.88
SCE1572_9727	25.97	15.12
SCE1572_5503	41.54	37.99
SCE1572_10188	49.73	86.83
SCE1572_3854	36.37	37.78
SCE1572_9729	45.94	51.04
SCE1572_888	36.71	3.84
SCE1572_8618	44.06	31.19
SCE1572_7014	14.44	2.9
SCE1572_7244	0	0
SCE1572_1233	43.54	14.86
SCE1572_9239	55.13	24.88
SCE1572_2490	42.53	17.19
SCE1572_61	35.39	73.49
SCE1572_6335	26.43	4.73
SCE1572_6765	97.37	30.13
SCE1572_9170	7.84	0
SCE1572_268	0	0
SCE1572_3927	174.8	279.06
SCE1572_993	18.34	37.66
SCE1572_8575	95.49	16.07
SCE1572_11250	21.06	0
SCE1572_2748	35.56	50.1
SCE1572_6245	15.46	3.54
SCE1572_10450	23.85	4.1
SCE1572_44	32.3	47.5
SCE1572_4878	9.52	4.58
SCE1572_1646	0	0
SCE1572_7509	0	0
SCE1572_6008	60.29	597.53
SCE1572_8285	44.09	83.78
SCE1572_5281	49.24	41.38
SCE1572_7812	140.01	1230.68
SCE1572_10549	39.02	20.63
SCE1572_172	143.42	59.18
SCE1572_2944	70.19	28.72
SCE1572_2332	76.18	70.21
SCE1572_9460	24.33	8.28
SCE1572_194	0	0
SCE1572_4556	30.1	12.37
SCE1572_11456	46.76	23.87
SCE1572_869	0	0
SCE1572_1905	7.29	0

SCE1572_7101	141.39	405.31
SCE1572_11474	51.13	14.6
SCE1572_5193	34.62	174.96
SCE1572_5443	53.02	17.91
SCE1572_4741	24.76	13.39
SCE1572_10553	0	0
SCE1572_3114	68.32	22.36
SCE1572_4068	28.91	43.69
SCE1572_11072	57.88	130.68
SCE1572_9767	69.36	584.26
SCE1572_756	0	0
SCE1572_4464	84.71	27.41
SCE1572_7980	38.62	30.98
SCE1572_6512	36.27	12.58
SCE1572_9297	112.18	426.09
SCE1572_5574	58.44	40.19
SCE1572_6775	0	0
SCE1572_9184	29.76	16.22
SCE1572_3090	86.98	84.21
SCE1572_2940	19.85	40.18
SCE1572_1007	63.26	163.65
SCE1572_10101	14.53	7.65
SCE1572_9664	32.31	167.51
SCE1572_4521	12.94	4.45
SCE1572_9451	0	0
SCE1572_10349	0	0
SCE1572_6063	9.19	0
SCE1572_7711	32.27	84
SCE1572_6040	145.2	224.62
SCE1572_7295	83.18	95.55
SCE1572_5612	56.76	110.41
SCE1572_914	78.11	213.79
SCE1572_7338	23.01	200.71
SCE1572_9546	34.48	57.49
SCE1572_2361	59.52	104.84
SCE1572_10081	574.3	3500.73
SCE1572_6425	40.68	10.01
SCE1572_7087	40.32	17.28
SCE1572_3122	62.01	24.28
SCE1572_10629	37.57	146.47
SCE1572_6183	44.99	13.54
SCE1572_2407	77.91	313.22
SCE1572_9479	109.09	121.27
SCE1572_3946	330.25	346.86
SCE1572_2018	14.29	13.37
SCE1572_7193	36.12	44.33
SCE1572_8678	16.04	10.53
SCE1572_6295	40.55	237.62

SCE1572_4225	36.82	7.82
SCE1572_9757	21.45	16.81
SCE1572_2709	59.3	21.68
SCE1572_1134	23.83	20.85
SCE1572_5682	22.26	95.42
SCE1572_6996	32.54	21.36
SCE1572_4442	44.67	27.34
SCE1572_10956	19.92	65.5
SCE1572_3745	12.69	3.92
SCE1572_4336	91.79	17.38
SCE1572_3099	17.26	3.93
SCE1572_11336	9.05	5.45
SCE1572_1216	3.89	0
SCE1572_535	24.19	64.43
SCE1572_9158	58.69	31.39
SCE1572_166	25.08	65.85
SCE1572_3410	9.94	0
SCE1572_2161	32.18	11.79
SCE1572_3908	17.92	3.32
SCE1572_6777	6.85	5.5
SCE1572_6645	26.86	16.44
SCE1572_3965	25.16	21.2
SCE1572_4261	48.13	25.43
SCE1572_2344	67.43	382.21
SCE1572_6770	2.79	4.48
SCE1572_1828	33.28	11.87
SCE1572_5426	69.7	52.29
SCE1572_7726	20.56	507.18
SCE1572_598	23.45	13.17
SCE1572_3901	35.71	81.43
SCE1572_8478	6.13	0
SCE1572_10284	40.07	147.9
SCE1572_11240	32.66	31.81
SCE1572_4461	201.41	21.55
SCE1572_10638	19.56	0
SCE1572_3799	64.44	220.36
SCE1572_1786	39.15	73.91
SCE1572_10158	21.02	12.04
SCE1572_8338	74.65	51.95
SCE1572_8980	73.3	24.17
SCE1572_3954	30.96	21.42
SCE1572_6417	0	0
SCE1572_9079	0	0
SCE1572_3083	33.21	7.36
SCE1572_10595	55.11	14.81
SCE1572_3328	137.1	392.1
SCE1572_3434	73.01	136.28
SCE1572_9984	72.32	35.93

SCE1572_8968	21.47	14.09
SCE1572_39	34.71	29.24
SCE1572_2411	62.39	244.78
SCE1572_1999	10.86	5.23
SCE1572_3318	9.93	30.2
SCE1572_10817	27.66	20.49
SCE1572_9696	50.39	125.01
SCE1572_6524	120.64	122.81
SCE1572_6569	15.99	95.57
SCE1572_7689	0	0
SCE1572_6110	46.96	19.38
SCE1572_7027	37.87	52.19
SCE1572_2816	83.72	36.49
SCE1572_5263	0	0
SCE1572_2933	0	0
SCE1572_6272	35.59	58.97
SCE1572_7271	27.57	9.76
SCE1572_4318	44.97	8.62
SCE1572_8239	40.9	111.64
SCE1572_2660	0	0
SCE1572_4415	29.23	6.59
SCE1572_11571	27.71	1391.15
SCE1572_308	30.14	69.19
SCE1572_3326	31.48	65.81
SCE1572_4125	18.45	7.67
SCE1572_7515	26.55	30.93
SCE1572_6405	30.11	39.42
SCE1572_802	32.25	45.18
SCE1572_9326	409.36	583.88
SCE1572_4981	50.93	188.16
SCE1572_7173	38.98	160.3
SCE1572_8233	13.81	23.75
SCE1572_10355	25.11	167.91
SCE1572_8626	76.35	49.88
SCE1572_822	5.83	0
SCE1572_2586	9.18	3.22
SCE1572_1120	35.94	13.71
SCE1572_10702	12.85	142.26
SCE1572_9415	3.3	0
SCE1572_6120	64	57.66
SCE1572_3047	24.02	12.85
SCE1572_1540	21.04	46.23
SCE1572_7232	55.31	22.03
SCE1572_3848	15.45	9.64
SCE1572_7998	25.73	12.25
SCE1572_8882	0	0
SCE1572_4751	44.2	178.74
SCE1572_6050	0	0

SCE1572_10386	57.77	26.78
SCE1572_9410	91.01	1580.21
SCE1572_3578	9.99	32.78
SCE1572_9550	160.39	108.57
SCE1572_6199	4.15	0
SCE1572_4504	56.07	30.41
SCE1572_7179	25.63	15.42
SCE1572_7040	12.55	0
SCE1572_4185	29.75	50.92
SCE1572_2868	37.18	33.7
SCE1572_304	78.61	22.36
SCE1572_11445	58.57	83.87
SCE1572_4021	31.03	45.09
SCE1572_4574	23.51	14.28
SCE1572_2367	0	0
SCE1572_1750	39.93	37.61
SCE1572_986	99.98	372.81
SCE1572_7378	8.59	7.39
SCE1572_1790	21.1	5.9
SCE1572_2796	23.16	22.81
SCE1572_2184	55.55	18.09
SCE1572_2119	54.1	111.36
SCE1572_6351	64.54	19.32
SCE1572_8494	6.49	0
SCE1572_8812	41.85	16.51
SCE1572_898	18.28	11.65
SCE1572_11468	51.52	152.35
SCE1572_6079	0	0
SCE1572_8680	21.04	17.87
SCE1572_3347	159.06	85.59
SCE1572_6055	117.56	171.88
SCE1572_5153	36.18	10.76
SCE1572_119	82.41	223.79
SCE1572_8896	65.51	322.12
SCE1572_1242	59.85	64.75
SCE1572_3419	63.59	79.36
SCE1572_9666	2.31	16.67
SCE1572_2487	34.28	133.9
SCE1572_1264	0	0
SCE1572_5098	59.33	254.61
SCE1572_2474	43.16	295.06
SCE1572_3592	16.01	13.6
SCE1572_1830	37.72	38.07
SCE1572_5597	82.17	300.16
SCE1572_7095	61.94	22.69
SCE1572_10249	0	0
SCE1572_4482	75.5	182.21
SCE1572_161	34.44	9.91

SCE1572_4585	30.55	40.1
SCE1572_63	28.54	25.34
SCE1572_2872	25.86	18.76
SCE1572_2379	22.92	100.42
SCE1572_6262	24.11	14.95
SCE1572_5456	11.43	4.23
SCE1572_8360	16.51	3.61
SCE1572_7880	34.24	35.32
SCE1572_6935	48.48	48.41
SCE1572_6679	48.52	40.14
SCE1572_3121	38.44	64.86
SCE1572_4352	0	0
SCE1572_1623	0	0
SCE1572_8671	13.78	4.74
SCE1572_10766	62.82	3112.93
SCE1572_4866	23.94	220
SCE1572_1285	93.23	1921.58
SCE1572_9791	0	0
SCE1572_24	35.91	47.06
SCE1572_9539	41.18	9.01
SCE1572_3941	648.03	891.46
SCE1572_6796	66.96	127.72
SCE1572_9330	334.31	1053.97
SCE1572_1657	39.51	33.17
SCE1572_3963	63.31	19.25
SCE1572_7879	53.99	46.69
SCE1572_5175	33.88	17.97
SCE1572_8423	92.88	60.82
SCE1572_4437	0	0
SCE1572_2421	20.39	33.01
SCE1572_6988	22.28	3.92
SCE1572_11010	29.03	144.07
SCE1572_5170	54.88	683.28
SCE1572_8563	74.48	464.16
SCE1572_3747	0	0
SCE1572_3998	28.74	52.28
SCE1572_4977	59.38	991.07
SCE1572_6959	2.57	0
SCE1572_1684	48.48	63.3
SCE1572_7333	0	0
SCE1572_3804	18.48	7.6
SCE1572_9627	52.96	19.9
SCE1572_7297	48.88	24.01
SCE1572_3672	28.19	17.38
SCE1572_1107	63.63	14.18
SCE1572_11117	33.19	21.79
SCE1572_11541	24.26	2.43
SCE1572_10815	13.48	9.93

SCE1572_11555	33.59	14.63
SCE1572_7690	33.13	104.59
SCE1572_6318	13.15	8.33
SCE1572_6941	24.49	10.4
SCE1572_8	75.18	78.85
SCE1572_9759	44.12	17.38
SCE1572_7657	39.68	26.94
SCE1572_6851	7.26	4.37
SCE1572_7002	0	0
SCE1572_9166	55.81	15.67
SCE1572_2975	35.64	7.09
SCE1572_4128	23.33	25.52
SCE1572_2261	37.23	119.46
SCE1572_4234	40.5	12.5
SCE1572_461	16.68	7.3
SCE1572_9873	18.38	14.74
SCE1572_9372	41.12	25.77
SCE1572_72	42.15	57.19
SCE1572_228	24.86	0
SCE1572_82	0	0
SCE1572_5341	39.42	44.14
SCE1572_10486	18.95	34.21
SCE1572_6682	46.65	303.68
SCE1572_9571	17.2	18.58
SCE1572_9040	26.68	171.25
SCE1572_11052	59.33	684.75
SCE1572_11360	125.74	569.24
SCE1572_5202	16.77	26.07
SCE1572_6880	2.26	0
SCE1572_4610	16.04	14.48
SCE1572_7675	58.7	15.1
SCE1572_1661	52.43	155.75
SCE1572_7892	492.21	22628.64
SCE1572_9047	5.14	0
SCE1572_5277	0	0
SCE1572_5998	30.12	58.98
SCE1572_8266	156.42	118.06
SCE1572_938	20.22	20.85
SCE1572_7383	140.14	51.29
SCE1572_2457	2.81	0
SCE1572_2054	100	143.64
SCE1572_571	0	0
SCE1572_4856	44.2	12.77
SCE1572_591	103.15	156.24
SCE1572_4653	71.56	33.37
SCE1572_3661	28.72	5.67
SCE1572_10229	14.21	11.4
SCE1572_6595	0	0

SCE1572_10091	80.53	462.5
SCE1572_4346	0	0
SCE1572_2896	42.03	10.84
SCE1572_692	20.22	24.33
SCE1572_881	75.1	109.82
SCE1572_4474	0	0
SCE1572_7801	68.98	112.6
SCE1572_6981	105.01	9.46
SCE1572_2582	52.61	28.47
SCE1572_5949	37.77	20.52
SCE1572_6269	13.87	40.05
SCE1572_11015	10.11	9.73
SCE1572_5129	0	0
SCE1572_1584	44.8	215.64
SCE1572_427	29.45	338.67
SCE1572_857	85.62	1850.37
SCE1572_3371	28.11	15.31
SCE1572_6197	3.76	3.02
SCE1572_640	9.88	16.64
SCE1572_9128	33.69	192.6
SCE1572_1193	35.91	62.74
SCE1572_5713	118.13	62.69
SCE1572_7201	25.96	22.09
SCE1572_11346	25.45	105.89
SCE1572_11037	34.96	166.78
SCE1572_7343	42.74	48.98
SCE1572_8128	31.22	0
SCE1572_1226	46.75	14.72
SCE1572_513	35.22	17.76
SCE1572_5913	7.37	3.73
SCE1572_1944	54.87	18.15
SCE1572_2663	29.78	19.55
SCE1572_4762	66.68	1070.27
SCE1572_3875	49.53	100.32
SCE1572_9233	39.69	174.56
SCE1572_3797	38.64	55.42
SCE1572_9285	13.43	16.16
SCE1572_11165	33.69	5.59
SCE1572_9532	62.53	973.13
SCE1572_8340	0	0
SCE1572_9803	22.16	35.16
SCE1572_8719	29.54	16.73
SCE1572_7418	0	0
SCE1572_4619	0	0
SCE1572_3836	16.85	0
SCE1572_1873	17.89	8.2
SCE1572_7970	24.24	37.24
SCE1572_3265	0	0

SCE1572_7069	54.44	207.34
SCE1572_8463	111.48	491.29
SCE1572_7553	25.08	13.72
SCE1572_11110	58.96	170.52
SCE1572_3915	8.39	0
SCE1572_5528	52.99	27.33
SCE1572_6920	43.32	0
SCE1572_9578	44.36	16.22
SCE1572_8019	0	0.01
SCE1572_8538	33.65	28.58
SCE1572_10597	64.98	17.38
SCE1572_3834	3.7	0
SCE1572_261	33.17	10.26
SCE1572_877	222.04	449.68
SCE1572_7620	21.32	19.86
SCE1572_8823	40.3	25.41
SCE1572_10432	38.98	24.38
SCE1572_3485	44.59	33.6
SCE1572_9925	222.8	704.88
SCE1572_736	36.15	26.58
SCE1572_7536	65.42	17.24
SCE1572_9893	22.83	12.7
SCE1572_3474	24.22	10.6
SCE1572_4680	4.15	0
SCE1572_5298	24.42	23.23
SCE1572_940	53.04	14.8
SCE1572_8983	4.94	0
SCE1572_6162	31.72	43.52
SCE1572_11509	27.99	19.34
SCE1572_9247	35.26	7.64
SCE1572_8387	112.31	23.65
SCE1572_10404	30.85	25.17
SCE1572_7127	3.16	0
SCE1572_7652	68.11	27.32
SCE1572_1001	0	0
SCE1572_3203	32.87	391.72
SCE1572_2243	61.24	34.79
SCE1572_10340	29.61	9.38
SCE1572_4698	6.77	3.26
SCE1572_92	89.36	198.98
SCE1572_547	13.91	14.62
SCE1572_8219	28.43	30.41
SCE1572_4004	0	0
SCE1572_4774	41.81	0
SCE1572_5326	0	0
SCE1572_6895	0	0
SCE1572_6208	0	0
SCE1572_6946	29.09	16.38

SCE1572_406	3.37	0
SCE1572_6188	14.88	10.07
SCE1572_5364	12.43	0
SCE1572_3196	48.42	136.93
SCE1572_3934	0	0
SCE1572_8611	32.87	12.92
SCE1572_6810	197.42	543.58
SCE1572_8806	0	0
SCE1572_4158	64.98	34.09
SCE1572_625	0	0
SCE1572_9337	83.96	251.67
SCE1572_9717	95.36	1145.26
SCE1572_848	59.17	42.73
SCE1572_9658	16.98	35.54
SCE1572_6828	16.68	13.21
SCE1572_7207	9.24	28.19
SCE1572_5783	24.59	46.62
SCE1572_7362	18.49	4.45
SCE1572_6948	29.55	24.36
SCE1572_6328	37.74	67.35
SCE1572_5971	82.64	157.8
SCE1572_11515	6.2	6.78
SCE1572_9998	16.6	3.77
SCE1572_7827	159.43	466.5
SCE1572_11498	0	0
SCE1572_8627	23.22	14.82
SCE1572_6396	13.27	44.85
SCE1572_1816	18.66	5.61
SCE1572_1689	34.99	47.72
SCE1572_540	29.26	18.76
SCE1572_4847	41.19	69.61
SCE1572_54	28.73	14.89
SCE1572_2120	51.89	85.78
SCE1572_1480	64.59	20.95
SCE1572_3175	47.89	87.95
SCE1572_6472	15.5	2.33
SCE1572_5395	0	0
SCE1572_7930	109.01	50.42
SCE1572_6485	17.57	23.49
SCE1572_2317	14.21	9.12
SCE1572_11521	27.57	10.3
SCE1572_6877	77.71	187.42
SCE1572_2337	17.4	9.97
SCE1572_9657	26.5	26.27
SCE1572_99	29.08	15
SCE1572_10461	44	198.87
SCE1572_2610	23.85	41
SCE1572_2693	13.36	5.8

SCE1572_5047	36.94	48.16
SCE1572_465	41.95	99.2
SCE1572_1806	21.83	14.6
SCE1572_1545	37.9	28.17
SCE1572_10098	21.79	88.16
SCE1572_783	51.08	20.7
SCE1572_9872	51.27	243.28
SCE1572_1542	11.37	29.65
SCE1572_6838	89.19	47.7
SCE1572_283	41.09	32.97
SCE1572_4492	33.69	27.47
SCE1572_850	52.08	176.1
SCE1572_3599	25.27	44.82
SCE1572_9433	136.62	180.46
SCE1572_1837	73.88	139.06
SCE1572_10439	194.26	713.55
SCE1572_10075	901.55	1765.8
SCE1572_10995	42.06	28.49
SCE1572_5183	23.82	457.2
SCE1572_10468	12.81	5.14
SCE1572_10502	43.55	33.89
SCE1572_1563	20.77	0
SCE1572_8311	7.17	1.26
SCE1572_3752	75.25	145.97
SCE1572_4381	18.06	8.21
SCE1572_164	21.6	13.48
SCE1572_2810	4.79	0
SCE1572_4276	43.84	24.43
SCE1572_5476	32.92	843.63
SCE1572_10133	13.3	10.06
SCE1572_11496	72.29	20.02
SCE1572_3154	11.05	11.82
SCE1572_10954	76.64	22.72
SCE1572_11204	63.75	141.64
SCE1572_6699	23.72	11.58
SCE1572_6692	6.23	0
SCE1572_2592	0	0
SCE1572_11437	39.98	61.73
SCE1572_4044	23.58	61.63
SCE1572_4691	38.81	65.69
SCE1572_5415	44.23	12.45
SCE1572_4748	86.18	42.25
SCE1572_7421	23.33	9.36
SCE1572_5627	43.8	6.08
SCE1572_6284	40.96	81.29
SCE1572_6442	71.5	40.55
SCE1572_916	0	0
SCE1572_240	19.77	0

SCE1572_11184	20.96	4.45
SCE1572_6705	567.87	2153.41
SCE1572_4810	0	0
SCE1572_2750	41.87	62.59
SCE1572_5828	16.52	9.23
SCE1572_7923	9.37	2.05
SCE1572_7154	14.56	9.67
SCE1572_9510	9.3	0
SCE1572_7887	79.1	393.68
SCE1572_9937	17.33	0
SCE1572_4961	22.81	96.88
SCE1572_8370	30.89	10.3
SCE1572_2727	26.49	13.19
SCE1572_8092	16.07	2.42
SCE1572_8693	45.12	9.78
SCE1572_2531	20.49	0
SCE1572_746	35.05	51.33
SCE1572_2099	20.11	12.41
SCE1572_5565	78.24	58.54
SCE1572_10542	80.2	53.54
SCE1572_9272	37.06	35.68
SCE1572_7316	0	0
SCE1572_8991	11.17	23.05
SCE1572_9863	56.46	21.82
SCE1572_5231	61.79	235.7
SCE1572_840	40.85	102.1
SCE1572_11308	24.93	5.75
SCE1572_2198	0	0
SCE1572_10222	21.92	36.64
SCE1572_4626	146.64	260.35
SCE1572_11257	47.93	77.69
SCE1572_10224	144.92	96.68
SCE1572_6698	19.53	20.15
SCE1572_580	16.48	37.02
SCE1572_6523	2.37	0
SCE1572_5519	0	0
SCE1572_8347	51.48	54.21
SCE1572_10511	0	0
SCE1572_444	27.27	7.88
SCE1572_5371	63.77	83.72
SCE1572_7543	17.02	72.24
SCE1572_7928	93.1	73.17
SCE1572_6072	34.19	14.31
SCE1572_6289	11.35	25.72
SCE1572_7872	94.81	299.73
SCE1572_7766	19.86	7.59
SCE1572_7584	20.13	0
SCE1572_2304	67.56	194.56

SCE1572_10314	30.72	4.77
SCE1572_6450	55.03	42.87
SCE1572_9907	38.53	62.5
SCE1572_385	2.76	0
SCE1572_10765	32.54	270.58
SCE1572_647	0	0
SCE1572_8929	32.26	116.46
SCE1572_6354	10.16	3.76
SCE1572_5287	38.29	243.28
SCE1572_6201	45.24	20.74
SCE1572_9991	52.67	15.39
SCE1572_395	38.2	54.41
SCE1572_9673	36.31	119.6
SCE1572_774	63.97	153.09
SCE1572_10195	16.68	5.47
SCE1572_796	83.72	163.41
SCE1572_1428	23.47	7.17
SCE1572_1400	15.32	15.53
SCE1572_2573	34.13	9.39
SCE1572_5836	27.07	26.07
SCE1572_11301	21.02	57.81
SCE1572_2655	29.85	21.43
SCE1572_4710	14.94	8.46
SCE1572_479	36.74	11.18
SCE1572_5447	54.65	19.8
SCE1572_6103	15.09	6.92
SCE1572_3603	168.43	104.26
SCE1572_4110	20.33	4.98
SCE1572_813	26.3	12.1
SCE1572_8604	14.18	29.49
SCE1572_8055	20.14	17.11
SCE1572_5747	6.1	1.83
SCE1572_1893	3.74	38.29
SCE1572_2990	8.42	0
SCE1572_3542	0	0
SCE1572_5938	14.21	3.8
SCE1572_1912	27.13	0
SCE1572_10333	0	0
SCE1572_967	0	0
SCE1572_11447	64.18	61.45
SCE1572_8007	54.01	1130.54
SCE1572_780	23.58	8.11
SCE1572_10863	31.11	362.81
SCE1572_6841	90.88	116.16
SCE1572_9493	0	0
SCE1572_10754	35.69	14.81
SCE1572_6212	67.53	26.98
SCE1572_1405	17.15	11.56

SCE1572_5390	0	0
SCE1572_7572	77.12	177.72
SCE1572_8821	9.52	22.91
SCE1572_1339	21.25	105.18
SCE1572_4924	32.34	51.9
SCE1572_7839	30.96	42.4
SCE1572_533	14.13	49.48
SCE1572_6340	27.77	23.34
SCE1572_1485	43.58	36.99
SCE1572_6969	49.29	442.22
SCE1572_4180	8.37	17.62
SCE1572_6543	94.08	115.67
SCE1572_7713	22.74	10.14
SCE1572_1020	28.36	100.03
SCE1572_1352	43.37	62.15
SCE1572_6221	59.17	31.15
SCE1572_4928	3.94	0
SCE1572_11194	33.49	168.54
SCE1572_8274	18.84	32.07
SCE1572_7612	43.5	88.07
SCE1572_8192	28.25	13.88
SCE1572_2938	44.56	84.21
SCE1572_1723	9.92	6.82
SCE1572_10164	44.66	14.14
SCE1572_10441	14.39	42.62
SCE1572_10980	9.48	16.67
SCE1572_3704	41.35	193.94
SCE1572_2165	85.65	47.38
SCE1572_2117	62.68	105.05
SCE1572_4941	15.33	23.92
SCE1572_8030	61.42	51.71
SCE1572_6903	51.13	12.09
SCE1572_4896	5.93	4.08
SCE1572_7270	118.57	95.13
SCE1572_7226	40.89	149.66
SCE1572_6720	5434.99	20079.31
SCE1572_9067	26.33	17.48
SCE1572_8853	5.83	3.51
SCE1572_3409	30.98	18.31
SCE1572_4072	50.16	134.85
SCE1572_1230	31.96	39.31
SCE1572_9833	31.07	10.32
SCE1572_4537	24.51	10.34
SCE1572_5721	66.41	68.36
SCE1572_11218	30.09	22.5
SCE1572_4782	59.03	47.86
SCE1572_10205	60.04	14.7
SCE1572_5110	34.42	311.44

SCE1572_4953	41.05	25.11
SCE1572_4499	57.15	43.94
SCE1572_5453	44.98	14.6
SCE1572_1383	0	0
SCE1572_10128	2.08	0
SCE1572_3035	15.05	6.19
SCE1572_3385	39.14	40.74
SCE1572_2578	22.33	4.09
SCE1572_8254	37.3	1859.59
SCE1572_10620	28.12	22.56
SCE1572_4986	16.9	43.07
SCE1572_6819	33.41	4.64
SCE1572_7748	11.73	1.13
SCE1572_1165	41.5	46.29
SCE1572_6381	24.19	139.76
SCE1572_3296	0	0
SCE1572_5450	46.61	44.38
SCE1572_7191	183.26	425.21
SCE1572_2557	58.89	28.13
SCE1572_3615	43.49	14.14
SCE1572_10857	105.29	66.69
SCE1572_4117	14.63	2131.91
SCE1572_6867	191.38	182.46
SCE1572_8380	17.84	18.4
SCE1572_1761	61.48	16.82
SCE1572_10234	15.04	0
SCE1572_10232	58.31	12.96
SCE1572_1579	23.18	25.57
SCE1572_5315	21.94	33.61
SCE1572_4151	27.96	251.34
SCE1572_3657	13.24	14.29
SCE1572_10615	54.18	32.83
SCE1572_1341	54.93	342.45
SCE1572_8243	113.07	261.01
SCE1572_7414	10.29	1.65
SCE1572_10911	3.92	0
SCE1572_5225	204.22	610.69
SCE1572_2396	9.83	25.64
SCE1572_4400	18.31	9.04
SCE1572_8842	38.6	55.97
SCE1572_10419	88.97	43.7
SCE1572_7959	14.01	24.53
SCE1572_1153	43.96	133.98
SCE1572_5336	25.93	16.01
SCE1572_4719	28.43	9.02
SCE1572_6586	241.25	55.08
SCE1572_7897	17.56	38.41
SCE1572_11158	50.28	47.83

SCE1572_3884	38.88	14.04
SCE1572_8080	25.54	3.84
SCE1572_3106	56.57	103.49
SCE1572_8814	23.07	11.38
SCE1572_5302	48.38	12.48
SCE1572_8654	411.33	2273.81
SCE1572_10843	19.25	0
SCE1572_7605	39.96	22.63
SCE1572_1593	45.39	83.68
SCE1572_11127	43.76	29.67
SCE1572_6369	43.48	42.04
SCE1572_741	17.2	27.23
SCE1572_1749	41.06	32.31
SCE1572_11146	35.84	75.75
SCE1572_6097	32.07	54.39
SCE1572_7486	18.42	14.43
SCE1572_10655	77.86	601.63
SCE1572_4816	2.61	0
SCE1572_2034	64.65	113.42
SCE1572_1214	21.41	12.37
SCE1572_10804	56.12	20.16
SCE1572_4252	62.5	22.29
SCE1572_11597	68.88	813.26
SCE1572_6887	16.41	3.76
SCE1572_7811	18.44	4.93
SCE1572_1359	61.74	193.19
SCE1572_10714	37.78	10.36
SCE1572_5251	65.33	273.36
SCE1572_7395	21.56	3.46
SCE1572_587	28.34	12.87
SCE1572_6808	97.31	380.45
SCE1572_2363	20.07	10.73
SCE1572_9844	13.24	28.96
SCE1572_10526	24.72	11.9
SCE1572_9342	211.46	2837.75
SCE1572_4146	25.94	9.76
SCE1572_7281	14.52	67.11
SCE1572_4372	49.84	18.75
SCE1572_814	16.4	6.4
SCE1572_5025	23.6	16.71
SCE1572_1083	31.13	4.83
SCE1572_6457	23.66	12.27
SCE1572_3233	31.11	20.49
SCE1572_671	23.92	79.72
SCE1572_4379	16.24	6.17
SCE1572_10683	88.3	196.98
SCE1572_1027	29.71	746.96
SCE1572_1631	39.24	8.59

SCE1572_8958	22	39.82
SCE1572_7873	75.81	264.33
SCE1572_233	14.36	34.57
SCE1572_10045	590.27	6756.38
SCE1572_344	59.95	18.04
SCE1572_5842	65.03	17.92
SCE1572_5402	31.45	20.34
SCE1572_10627	38.24	122.28
SCE1572_1	78.06	479.35
SCE1572_5460	25.62	1.26
SCE1572_5738	178.92	188.51
SCE1572_5815	13	13.21
SCE1572_6362	114.77	84.32
SCE1572_247	92.48	22.52
SCE1572_2757	32.34	20.42
SCE1572_8113	32.41	9.75
SCE1572_6567	32.64	57.67
SCE1572_3516	20.66	84.43
SCE1572_10268	42.08	28.88
SCE1572_4095	24.93	20.61
SCE1572_6711	55.01	96.88
SCE1572_7319	30.99	40.32
SCE1572_8996	22.93	32.49
SCE1572_10202	78.2	30.23
SCE1572_4229	37.35	25.9
SCE1572_10113	21.02	45.77
SCE1572_3289	44.63	26.07
SCE1572_5800	55.13	154.08
SCE1572_2827	32.9	6.89
SCE1572_10116	25.56	49.5
SCE1572_8211	49.29	63.61
SCE1572_6952	45.21	11.72
SCE1572_1962	54.18	20.22
SCE1572_9390	33.3	61.39
SCE1572_960	52.66	96.15
SCE1572_10946	51.87	23.63
SCE1572_2999	13.86	5.89
SCE1572_1927	30.61	57.39
SCE1572_9035	25.99	12.74
SCE1572_10724	0	0
SCE1572_4058	16.13	10.35
SCE1572_6655	24.99	12.3
SCE1572_438	0	0
SCE1572_5849	22.07	4.62
SCE1572_6601	100.27	115.95
SCE1572_8322	24.83	91.23
SCE1572_10662	44.4	34
SCE1572_10127	12.03	5.79

SCE1572_3361	22.58	0
SCE1572_5931	11.76	6.53
SCE1572_7120	60.96	32.95
SCE1572_8914	22.13	7.99
SCE1572_7213	112.71	16.15
SCE1572_5808	56.18	23.15
SCE1572_1738	32.49	0
SCE1572_1178	43.75	16.68
SCE1572_5531	55.79	0
SCE1572_3085	0	0
SCE1572_4189	26.14	63.28
SCE1572_1290	22.64	16.45
SCE1572_6503	6.85	0
SCE1572_7966	34.33	15.49
SCE1572_7867	11.73	91.23
SCE1572_10986	743.08	13966.3
SCE1572_8302	99.79	282.65
SCE1572_712	5.36	1.84
SCE1572_1371	69.58	63.46
SCE1572_10014	17.8	6.9
SCE1572_8836	0	0
SCE1572_4135	31.84	10.95
SCE1572_9308	351.96	2140.32
SCE1572_7860	61.5	92.95
SCE1572_11530	47.38	28.17
SCE1572_1168	86.01	38.63
SCE1572_3268	127.94	1735.08
SCE1572_5142	71.15	24.57
SCE1572_954	4.36	2.63
SCE1572_6321	6.62	6.67
SCE1572_9892	0	0
SCE1572_8065	140.33	32.25
SCE1572_8022	22.81	25.84
SCE1572_1397	40.05	77.46
SCE1572_6727	63.14	137.49
SCE1572_946	55.84	19.09
SCE1572_2467	37.38	27.75
SCE1572_1047	50.72	16.7
SCE1572_4000	24.5	51.84
SCE1572_7773	88.75	133.51
SCE1572_2072	27.61	12.82
SCE1572_6390	56.2	142.31
SCE1572_1177	47.09	48.57
SCE1572_8664	41.12	8.25
SCE1572_5863	29.48	16.69
SCE1572_10634	32.74	77.59
SCE1572_3028	0	0
SCE1572_1678	13.93	36.75

SCE1572_376	32.34	11.68
SCE1572_4086	45.87	23.39
SCE1572_4789	40.95	355.16
SCE1572_9083	10.67	0.89
SCE1572_8181	27	5
SCE1572_94	180.22	130.82
SCE1572_8595	0	0
SCE1572_4562	75.81	98.53
SCE1572_6368	23.87	139.98
SCE1572_7514	0	0
SCE1572_709	0	0
SCE1572_10710	21.95	10
SCE1572_3553	3.37	0
SCE1572_253	52.15	20.92
SCE1572_8944	9.78	0
SCE1572_6674	13.9	24.33
SCE1572_6736	60.55	312.13
SCE1572_2448	14.8	7.7
SCE1572_11291	125.25	105.77
SCE1572_5059	54.63	75.13
SCE1572_3156	16.71	16.68
SCE1572_1016	0	0
SCE1572_10518	45.57	28.36
SCE1572_7907	224.67	1334.9
SCE1572_1586	26.82	46.35
SCE1572_10977	115.94	182.46
SCE1572_6973	3.09	0
SCE1572_9853	76.43	29.83
SCE1572_1932	69.88	19.79
SCE1572_9952	9.97	8
SCE1572_5881	51.04	45.5
SCE1572_5954	39	27.26
SCE1572_110	100.98	331.62
SCE1572_6687	11.15	18.78
SCE1572_8903	56.1	11.86
SCE1572_5683	101.19	315.56
SCE1572_8061	6.5	0
SCE1572_2297	29.8	109.16
SCE1572_9316	29.77	65.05
SCE1572_7818	15.37	19.14
SCE1572_9386	7.16	9.4
SCE1572_4554	29.06	6.08
SCE1572_2012	39.76	17.88
SCE1572_3431	172.24	451.81
SCE1572_8225	63.79	33.38
SCE1572_9164	53.91	16.22
SCE1572_3644	44.12	22.2
SCE1572_966	28.46	53.54

SCE1572_9205	31.4	36.86
SCE1572_2462	29.31	45.41
SCE1572_5733	104.04	870.41
SCE1572_636	151.27	443.3
SCE1572_10837	37.16	56.54
SCE1572_8783	45.07	264.02
SCE1572_5757	59.86	64.91
SCE1572_5085	0	0
SCE1572_9612	8.42	0
SCE1572_5009	256.41	397.12
SCE1572_5052	34.94	19.72
SCE1572_6416	34.75	7.6
SCE1572_2625	0	0
SCE1572_5034	39.51	13.27
SCE1572_7625	57.32	98.87
SCE1572_3253	26.1	19.44
SCE1572_8099	21.2	176.7
SCE1572_4840	58.67	436.32
SCE1572_431	44.38	26.7
SCE1572_4065	22.45	11.77
SCE1572_10086	294.71	1283.38
SCE1572_8010	45.01	245.18
SCE1572_7807	220.41	173.2
SCE1572_4797	70.36	244.47
SCE1572_10784	50.13	51.11
SCE1572_3402	24.56	92.52
SCE1572_10601	31.1	10.92
SCE1572_6016	153.25	459.1
SCE1572_6822	131.67	1569.17
SCE1572_656	642.29	1382.7
SCE1572_8398	52.6	32.02
SCE1572_7062	0	0
SCE1572_9868	33.55	71.79

TableS3 Transcripts detected under different pH conditions(Original reads)

Locus tag	pH 7.0	pH 10.0
SCE1572_5566	240	147
SCE1572_4403	41	59
SCE1572_3237	0	0
SCE1572_7422	4	0
SCE1572_6423	271	39
SCE1572_5465	106	15
SCE1572_5888	12	71
SCE1572_1430	56	6
SCE1572_9058	138	23
SCE1572_8947	128	80
SCE1572_1415	20	2
SCE1572_9953	382	94
SCE1572_8357	17	1
SCE1572_5736	69	305
SCE1572_963	781	264
SCE1572_9431	52	21
SCE1572_6979	32	6
SCE1572_5559	0	0
SCE1572_1203	181	30
SCE1572_926	121	26
SCE1572_6927	127	84
SCE1572_4079	19	0
SCE1572_1922	93	18
SCE1572_10118	124	218
SCE1572_8912	9	0
SCE1572_7208	33	4
SCE1572_6891	31	8
SCE1572_10120	291	520
SCE1572_8105	0	0
SCE1572_5207	82	116
SCE1572_4631	207	39
SCE1572_211	98	19
SCE1572_9167	42	1
SCE1572_3914	122	15
SCE1572_7224	167	116
SCE1572_8249	132	82
SCE1572_8904	63	2
SCE1572_5794	209	181
SCE1572_3433	38	108
SCE1572_4684	328	135
SCE1572_9858	13	0
SCE1572_9695	0	0
SCE1572_1899	66	9
SCE1572_1005	294.01	34.85
SCE1572_7497	0	0
SCE1572_5550	106	12

SCE1572_10517	69	14
SCE1572_5396	73	15
SCE1572_11501	5	0
SCE1572_3334	0	0
SCE1572_10265	50	6
SCE1572_11111	256	63
SCE1572_6453	0	0
SCE1572_816	196	27
SCE1572_2624	295	49
SCE1572_6657	415	405
SCE1572_1590	118	46
SCE1572_4855	39	4
SCE1572_8348	261	92
SCE1572_4967	60	207
SCE1572_7617	234	512
SCE1572_8843	94	23
SCE1572_2650	35	10
SCE1572_1513	73	3
SCE1572_10034	220	64
SCE1572_9206	227	65
SCE1572_1573	89	23
SCE1572_9449	143	36
SCE1572_3515	27	41
SCE1572_7608	1	0
SCE1572_6365	108	500
SCE1572_7454	96	75
SCE1572_3975	16	8
SCE1572_3071	281	69
SCE1572_3042	104	10
SCE1572_5691	100	17
SCE1572_1404	145	11
SCE1572_49	53	4
SCE1572_8002	205.3	19.5
SCE1572_2278	69	190
SCE1572_4137	0	0
SCE1572_1345	158	478
SCE1572_8495	168	36
SCE1572_5018	307	179
SCE1572_830	39	18
SCE1572_187	62	1142
SCE1572_6610	17	8
SCE1572_4114	47	28
SCE1572_306	62	13
SCE1572_7613	50	230
SCE1572_1606	231	28
SCE1572_10395	15	1
SCE1572_9894	3	0
SCE1572_9491	0	0

SCE1572_11230	347	156
SCE1572_8955	1	0
SCE1572_6436	75	14
SCE1572_5448	88	15
SCE1572_3105	133	81
SCE1572_1366	194	221
SCE1572_8601	46	60
SCE1572_4069	0	0
SCE1572_5880	0	0
SCE1572_8037	0	0
SCE1572_6726	36	15
SCE1572_3543	0	0
SCE1572_7367	416	4999
SCE1572_248	223	16
SCE1572_10623	368.73	178.08
SCE1572_9768	64	160
SCE1572_10652	23	54
SCE1572_7802	72	197
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SCE1572_8236	71	267
SCE1572_11492	151	172
SCE1572_8269	125	18
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SCE1572_4056	62	61
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SCE1572_3829	106	369
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SCE1572_3863	123	22
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SCE1572_913	16	11
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SCE1572_9968	67	9
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SCE1572_9360	84	321
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SCE1572_3275	216	168
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SCE1572_10619	147	38
SCE1572_3921	108	50
SCE1572_4488	174.39	35
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SCE1572_1709	161	51
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SCE1572_1728	196	49
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SCE1572_5119	278	250
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SCE1572_5573	117	27
SCE1572_271	490.82	1324.47
SCE1572_7575	156	154
SCE1572_3477	0	0
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SCE1572_8926	92	62.5
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SCE1572_11546	141.59	6.51
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SCE1572_6640	224	31
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SCE1572_9746	170	58
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SCE1572_9681	412	478
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SCE1572_5590	188	26
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SCE1572_1626	77	86
SCE1572_2275	294	794
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SCE1572_893	39	33
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SCE1572_3453	149	27
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SCE1572_2412	148	38
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SCE1572_5168	58	68
SCE1572_5090	78	46
SCE1572_6021	450	246
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SCE1572_3185	324	48
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SCE1572_6306	33	8
SCE1572_3491	97	74
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SCE1572_7734	7	0
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SCE1572_11587	6	6
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SCE1572_9802	76	27
SCE1572_7705	0	0
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SCE1572_3918	27	32
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SCE1572_1560	5	0
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SCE1572_2873	109	33
SCE1572_9756	16	4
SCE1572_3753	115	179
SCE1572_550	0	0
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SCE1572_11268	212	104
SCE1572_851	1775	2226
SCE1572_3635	28	7
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SCE1572_6505	75	26
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SCE1572_5572	595.59	127.72
SCE1572_1376	63.36	15.02
SCE1572_6791	7	3
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SCE1572_1931	325	48
SCE1572_10042	1184	1554
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SCE1572_11036	12	51
SCE1572_10037	35	31
SCE1572_10631	24	0
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SCE1572_1714	73	25
SCE1572_5308	60	36
SCE1572_8874	338	33
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SCE1572_1360	191	248
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SCE1572_5022	105	209
SCE1572_3331	42	175
SCE1572_4207	116	132
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SCE1572_6374	129	15
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SCE1572_7196	0.83	0
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SCE1572_5939	121	13
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SCE1572_7571	132	211
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SCE1572_9581	66	43
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SCE1572_7642	49	10
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SCE1572_1660	244	360
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SCE1572_8756	450	85
SCE1572_6849	87	5
SCE1572_1254	46	8
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SCE1572_6827	138	304
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SCE1572_5367	22	16
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SCE1572_8902	102	23
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SCE1572_5589	143	47
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SCE1572_8427	54	3
SCE1572_6847	81	2
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SCE1572_9852	62	31
SCE1572_8582	52	15
SCE1572_3980	132	95
SCE1572_1717	41	53
SCE1572_713	142	77
SCE1572_4522	127	23
SCE1572_3892	86	66
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SCE1572_10732	202	43
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SCE1572_10647	30	34
SCE1572_5069	153	55
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SCE1572_10074	63	0
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SCE1572_156	118	151
SCE1572_1825	23	6
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SCE1572_2720	317	30
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SCE1572_9517	365	252
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SCE1572_10534	61	116
SCE1572_8384	21	4
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SCE1572_2499	196	40
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SCE1572_3563	453	109
SCE1572_9465	3	0
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SCE1572_2879	267	211
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SCE1572_4429	93	74
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SCE1572_7599	1560	1606
SCE1572_2049	52	55
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SCE1572_3985	103	129
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SCE1572_10746	8	1
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SCE1572_11334	164	150
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SCE1572_4103	90	15
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SCE1572_2226	89	13
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SCE1572_4978	118	701
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SCE1572_8496	329	51
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SCE1572_7549	228	28
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SCE1572_6866	175	40
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SCE1572_123	6	0
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SCE1572_3438	0	0
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SCE1572_10236	1346	349
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SCE1572_7576	43	18
SCE1572_10653	911	3155
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SCE1572_5891	51	32
SCE1572_687	49	6
SCE1572_8834	487	124
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SCE1572_6929	84	9
SCE1572_7439	6	0
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SCE1572_1143	48	34
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SCE1572_10362	106	461
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SCE1572_8285	57	45
SCE1572_5281	63	22
SCE1572_7812	181	661
SCE1572_10549	100.36	22.05
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SCE1572_9460	99	14
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SCE1572_5443	114	16
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SCE1572_4068	86	54
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SCE1572_9767	86	301
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SCE1572_2361	179	131
SCE1572_10081	875	2216
SCE1572_6425	88	9
SCE1572_7087	146	26
SCE1572_3122	209	34
SCE1572_10629	451.27	730.92
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SCE1572_9479	236	109
SCE1572_3946	660	288
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SCE1572_7193	143.17	73
SCE1572_8678	33	9
SCE1572_6295	92	224

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SCE1572_3745	39	5
SCE1572_4336	267	21
SCE1572_3099	74	7
SCE1572_11336	8	2
SCE1572_1216	2	0
SCE1572_535	253	280
SCE1572_9158	108	24
SCE1572_166	22	24
SCE1572_3410	4	0
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SCE1572_3908	13	1
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SCE1572_3901	57	54
SCE1572_8478	7	0
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SCE1572_11240	42	17
SCE1572_4461	360	16
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SCE1572_3318	19	24
SCE1572_10817	104	32
SCE1572_9696	228	235
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SCE1572_6569	31	77
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SCE1572_3326	76	66
SCE1572_4125	110	19
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SCE1572_3419	216	112
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SCE1572_10486	48	36
SCE1572_6682	44	119
SCE1572_9571	49	22
SCE1572_9040	63	168
SCE1572_11052	171	820
SCE1572_11360	277	521
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SCE1572_6880	1	0
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SCE1572_3371	84	19
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SCE1572_7713	27	5
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SCE1572_6221	64	14
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SCE1572_4941	54	35
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SCE1572_5721	166	71
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SCE1572_4782	95	32
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SCE1572_7191	278	268
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SCE1572_3615	111	15
SCE1572_10857	273.61	72
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SCE1572_1579	24	11
SCE1572_5315	22	14
SCE1572_4151	64	239
SCE1572_3657	29	13
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SCE1572_1341	100	259
SCE1572_8243	220	211
SCE1572_7414	30	2
SCE1572_10911	3	0
SCE1572_5225	132	164
SCE1572_2396	24	26
SCE1572_4400	39	8
SCE1572_8842	83	50
SCE1572_10419	98	20
SCE1572_7959	11	8
SCE1572_1153	87.56	110.88
SCE1572_5336	39	10
SCE1572_4719	129	17
SCE1572_6586	253	24
SCE1572_7897	11	10
SCE1572_11158	86.55	34.21

SCE1572_3884	40	6
SCE1572_8080	16	1
SCE1572_3106	50	38
SCE1572_8814	68.31	14
SCE1572_5302	112	12
SCE1572_8654	1210	2779
SCE1572_10843	8	0
SCE1572_7605	68	16
SCE1572_1593	47	36
SCE1572_11127	71	20
SCE1572_6369	117	47
SCE1572_741	38	25
SCE1572_1749	52	17
SCE1572_11146	156	137
SCE1572_6097	44	31
SCE1572_7486	43	14
SCE1572_10655	38	122
SCE1572_4816	1	0
SCE1572_2034	391	285
SCE1572_1214	25	6
SCE1572_10804	67	10
SCE1572_4252	54	8
SCE1572_11597	159	780
SCE1572_6887	21	2
SCE1572_7811	27	3
SCE1572_1359	270	351
SCE1572_10714	79	9
SCE1572_5251	237	412
SCE1572_7395	30	2
SCE1572_587	106	20
SCE1572_6808	181	294
SCE1572_2363	18	4
SCE1572_9844	11	10
SCE1572_10526	15	3
SCE1572_9342	106	591
SCE1572_4146	32	5
SCE1572_7281	25	48
SCE1572_4372	307	48
SCE1572_814	37	6
SCE1572_5025	85	25
SCE1572_1083	31	2
SCE1572_6457	130	28
SCE1572_3233	95	26
SCE1572_671	65	90
SCE1572_4379	95	15
SCE1572_10683	205	190
SCE1572_1027	117	1222
SCE1572_1631	22	2

SCE1572_8958	121	91
SCE1572_7873	78	113
SCE1572_233	9	9
SCE1572_10045	401	1907
SCE1572_344	312	39
SCE1572_5842	166	19
SCE1572_5402	67	18
SCE1572_10627	143	190
SCE1572_1	243	620
SCE1572_5460	49	1
SCE1572_5738	249	109
SCE1572_5815	45	19
SCE1572_6362	190	58
SCE1572_247	193.36	19.56
SCE1572_2757	61	16
SCE1572_8113	56	7
SCE1572_6567	79	58
SCE1572_3516	53	90
SCE1572_10268	242	69
SCE1572_4095	99	34
SCE1572_6711	82	60
SCE1572_7319	37	20
SCE1572_8996	124	73
SCE1572_10202	160.93	25.85
SCE1572_4229	118	34
SCE1572_10113	42	38
SCE1572_3289	136	33
SCE1572_5800	180	209
SCE1572_2827	23	2
SCE1572_10116	87	70
SCE1572_8211	276	148
SCE1572_6952	65	7
SCE1572_1962	129	20
SCE1572_9390	94	72
SCE1572_960	58	44
SCE1572_10946	391	74
SCE1572_2999	51	9
SCE1572_1927	86	67
SCE1572_9035	54	11
SCE1572_10724	0	0
SCE1572_4058	30	8
SCE1572_6655	44	9
SCE1572_438	0	0
SCE1572_5849	46	4
SCE1572_6601	537	258
SCE1572_8322	38	58
SCE1572_10662	176	56
SCE1572_10127	10	2

SCE1572_3361	7	0
SCE1572_5931	65	15
SCE1572_7120	236	53
SCE1572_8914	40	6
SCE1572_7213	84	5
SCE1572_5808	146	25
SCE1572_1738	36	0
SCE1572_1178	101	16
SCE1572_5531	46	0
SCE1572_3085	0	0
SCE1572_4189	166	167
SCE1572_1290	53	16
SCE1572_6503	16	0
SCE1572_7966	48	9
SCE1572_7867	13	42
SCE1572_10986	1784	13931
SCE1572_8302	181	213
SCE1572_712	7	1
SCE1572_1371	190	72
SCE1572_10014	180	29
SCE1572_8836	0	0
SCE1572_4135	63	9
SCE1572_9308	1618	4088
SCE1572_7860	43	27
SCE1572_11530	85	21
SCE1572_1168	493	92
SCE1572_3268	227	1279
SCE1572_5142	237	34
SCE1572_954	4	1
SCE1572_6321	19.12	8
SCE1572_9892	0	0
SCE1572_8065	199	19
SCE1572_8022	17	8
SCE1572_1397	56	45
SCE1572_6727	147	133
SCE1572_946	200	28.41
SCE1572_2467	107	33
SCE1572_1047	95	13
SCE1572_4000	58	51
SCE1572_7773	72	45
SCE1572_2072	114	22
SCE1572_6390	96	101
SCE1572_1177	91	39
SCE1572_8664	48	4
SCE1572_5863	153	36
SCE1572_10634	195	192
SCE1572_3028	0	0
SCE1572_1678	52	57

SCE1572_376	80	12
SCE1572_4086	203	43
SCE1572_4789	111	400
SCE1572_9083	29	1
SCE1572_8181	13	1
SCE1572_94	126	38
SCE1572_8595	0	0
SCE1572_4562	100	54
SCE1572_6368	71	173
SCE1572_7514	0	0
SCE1572_709	0	0
SCE1572_10710	42.28	8
SCE1572_3553	4	0
SCE1572_253	54	9
SCE1572_8944	4	0
SCE1572_6674	22	16
SCE1572_6736	127	272
SCE1572_2448	37	8
SCE1572_11291	57	20
SCE1572_5059	98	56
SCE1572_3156	41	17
SCE1572_1016	0	0
SCE1572_10518	437	113
SCE1572_7907	286	706
SCE1572_1586	82.08	58.94
SCE1572_10977	104	68
SCE1572_6973	1	0
SCE1572_9853	185	30
SCE1572_1932	289	34
SCE1572_9952	24	8
SCE1572_5881	135	50
SCE1572_5954	62	18
SCE1572_110	343	468
SCE1572_6687	10	7
SCE1572_8903	148	13
SCE1572_5683	301	390
SCE1572_8061	3	0
SCE1572_2297	138	210
SCE1572_9316	65	59
SCE1572_7818	29	15
SCE1572_9386	22	12
SCE1572_4554	23	2
SCE1572_2012	91	17
SCE1572_3431	167	182
SCE1572_8225	138	30
SCE1572_9164	128	16
SCE1572_3644	110	23
SCE1572_966	174	136

SCE1572_9205	41	20
SCE1572_2462	87	56
SCE1572_5733	269	935
SCE1572_636	432	526
SCE1572_10837	87	55
SCE1572_8783	129	314
SCE1572_5757	182	82
SCE1572_5085	0	0
SCE1572_9612	4	0
SCE1572_5009	230	148
SCE1572_5052	119.36	27.99
SCE1572_6416	44	4
SCE1572_2625	0	0
SCE1572_5034	86	12
SCE1572_7625	307	220
SCE1572_3253	42	13
SCE1572_8099	93	322
SCE1572_4840	89	275
SCE1572_431	168	42
SCE1572_4065	101	22
SCE1572_10086	346	626
SCE1572_8010	76	172
SCE1572_7807	487	159
SCE1572_4797	142	205
SCE1572_10784	406	172
SCE1572_3402	46	72
SCE1572_10601	48	7
SCE1572_6016	188	234
SCE1572_6822	165	817
SCE1572_656	1004	898
SCE1572_8398	170	43
SCE1572_7062	0	0
SCE1572_9868	81	72

TableS3 Transcripts detected under different pH conditions (edgeR)

Locus tag	logFoldChange	logConc	PValue	FDR
SCE1572_3527	-8.60991438	-11.1416	6.37E-21	6.70E-17
SCE1572_4119	-7.635412187	-11.6046	5.55E-18	2.92E-14
SCE1572_5270	-7.65599141	-13.1793	2.74E-17	9.62E-14
SCE1572_3528	-7.080685475	-12.034	2.68E-16	7.05E-13
SCE1572_4117	-7.191370235	-13.2741	4.49E-16	9.19E-13
SCE1572_8972	-6.902167314	-11.4858	5.67E-16	9.19E-13
SCE1572_4118	-6.956242225	-12.2072	6.11E-16	9.19E-13
SCE1572_10922	-6.753614141	-8.32851	7.99E-16	1.05E-12
SCE1572_3526	-6.874307896	-13.2482	3.11E-15	3.63E-12
SCE1572_10923	-6.380810321	-9.14727	1.06E-14	1.12E-11
SCE1572_7894	38.08986581	-30.9711	1.97E-14	1.88E-11
SCE1572_7402	-6.587931306	-13.7133	3.93E-14	3.44E-11
SCE1572_3712	-6.177538232	-12.2862	1.03E-13	8.32E-11
SCE1572_1395	-5.998550436	-11.2006	1.93E-13	1.36E-10
SCE1572_5184	-6.154693386	-12.9665	1.94E-13	1.36E-10
SCE1572_8009	-5.86766727	-9.11692	3.30E-13	1.99E-10
SCE1572_7401	-6.38476496	-14.4364	3.32E-13	1.99E-10
SCE1572_5187	-6.152318874	-13.4457	3.40E-13	1.99E-10
SCE1572_3340	-5.717542553	-9.87797	9.41E-13	5.21E-10
SCE1572_9597	-5.63472751	-10.6539	1.82E-12	9.20E-10
SCE1572_4147	-5.905629507	-13.7914	1.91E-12	9.20E-10
SCE1572_7889	-5.705273172	-12.2477	1.92E-12	9.20E-10
SCE1572_4152	-5.812304919	-13.2531	2.09E-12	9.56E-10
SCE1572_4735	-5.575829284	-9.42494	2.33E-12	1.02E-09
SCE1572_1985	-5.55787848	-9.41583	2.66E-12	1.12E-09
SCE1572_10766	-5.635061834	-12.2829	3.08E-12	1.21E-09
SCE1572_7892	-5.526979353	-9.14575	3.18E-12	1.21E-09
SCE1572_8254	-5.643977655	-12.2404	3.23E-12	1.21E-09
SCE1572_1948	-5.671526655	-13.034	3.92E-12	1.37E-09
SCE1572_3722	-5.529034757	-10.8436	3.92E-12	1.37E-09
SCE1572_11571	-5.654167583	-13.3322	5.97E-12	2.03E-09
SCE1572_7890	-5.413504577	-9.41788	6.90E-12	2.27E-09
SCE1572_3139	-5.824205582	-14.3296	9.21E-12	2.94E-09
SCE1572_1306	-5.349009388	-8.75232	1.01E-11	3.12E-09
SCE1572_187	-5.474574112	-12.6377	1.13E-11	3.30E-09
SCE1572_9596	-5.666380792	-13.7956	1.13E-11	3.30E-09
SCE1572_7896	-5.295711508	-7.3376	1.34E-11	3.82E-09
SCE1572_5185	-5.351055506	-11.3049	1.39E-11	3.84E-09
SCE1572_7893	-5.296932593	-9.75296	1.50E-11	4.04E-09
SCE1572_3784	-5.506001447	-13.2543	1.59E-11	4.17E-09
SCE1572_6311	-5.390560379	-12.906	2.18E-11	5.59E-09
SCE1572_3374	-5.262286692	-11.0687	2.24E-11	5.59E-09
SCE1572_6279	-5.376957901	-12.8334	2.29E-11	5.59E-09
SCE1572_1265	-5.254233103	-10.7479	2.34E-11	5.59E-09
SCE1572_6042	-5.260282929	-11.6767	2.86E-11	6.68E-09
SCE1572_7891	-5.240486505	-11.9408	3.38E-11	7.72E-09

SCE1572_463	-5.20386657	-12.1274	4.41E-11	9.86E-09
SCE1572_350	-5.159472042	-11.5303	5.09E-11	1.11E-08
SCE1572_6014	-5.39358207	-13.7744	5.69E-11	1.22E-08
SCE1572_5180	-5.200540001	-12.5391	5.85E-11	1.23E-08
SCE1572_3710	-5.053851301	-8.03492	6.64E-11	1.37E-08
SCE1572_858	-5.035961159	-9.59205	8.35E-11	1.67E-08
SCE1572_10487	-5.018176738	-8.29949	8.41E-11	1.67E-08
SCE1572_5186	-5.05981732	-11.2601	9.13E-11	1.78E-08
SCE1572_1284	-5.022413248	-10.5796	9.84E-11	1.88E-08
SCE1572_7227	-5.005982584	-11.7494	1.46E-10	2.73E-08
SCE1572_7744	-5.04880335	-12.7604	1.56E-10	2.87E-08
SCE1572_5181	-5.034786771	-12.3524	1.59E-10	2.89E-08
SCE1572_3987	-4.979242736	-11.9327	1.76E-10	3.15E-08
SCE1572_7844	-4.934219	-11.0547	1.90E-10	3.32E-08
SCE1572_10361	-5.129404482	-13.8576	2.33E-10	4.01E-08
SCE1572_8098	-5.38476496	-14.9364	2.41E-10	4.08E-08
SCE1572_859	-4.865635354	-9.67721	2.54E-10	4.14E-08
SCE1572_7403	-4.894405595	-11.3822	2.55E-10	4.14E-08
SCE1572_1026	-5.480876853	-15.2668	2.56E-10	4.14E-08
SCE1572_7367	-4.858407581	-10.1996	2.78E-10	4.44E-08
SCE1572_6630	-5.086998916	-14.1418	4.57E-10	7.15E-08
SCE1572_5182	-5.070165279	-14.2092	4.62E-10	7.15E-08
SCE1572_5015	-4.773260672	-10.6206	5.03E-10	7.67E-08
SCE1572_9714	-4.9885806	-13.7905	5.13E-10	7.70E-08
SCE1572_2391	-4.843504696	-12.6786	5.58E-10	8.26E-08
SCE1572_2964	-4.745354675	-11.8797	7.89E-10	1.15E-07
SCE1572_2397	-4.971863205	-14.0359	8.06E-10	1.16E-07
SCE1572_2472	-4.876285545	-13.4987	8.30E-10	1.18E-07
SCE1572_410	-5.097971974	-14.7802	9.56E-10	1.34E-07
SCE1572_5476	-4.683683902	-11.38	9.76E-10	1.34E-07
SCE1572_559	-4.925926921	-14.1113	9.81E-10	1.34E-07
SCE1572_5188	-4.741038878	-12.6919	1.19E-09	1.61E-07
SCE1572_1365	-4.65800454	-11.6079	1.24E-09	1.65E-07
SCE1572_1977	-4.60174892	-8.82131	1.32E-09	1.73E-07
SCE1572_3202	-4.613475851	-10.7985	1.40E-09	1.80E-07
SCE1572_8472	-4.762088691	-13.1933	1.40E-09	1.80E-07
SCE1572_1027	-4.656087337	-12.1308	1.43E-09	1.81E-07
SCE1572_1794	-4.82694221	-13.8713	1.46E-09	1.83E-07
SCE1572_9595	-4.851367913	-14.3186	1.88E-09	2.33E-07
SCE1572_9340	-4.541864828	-9.05827	1.95E-09	2.38E-07
SCE1572_10699	-4.643212096	-12.4998	1.98E-09	2.39E-07
SCE1572_2679	-4.727652674	-13.6078	2.00E-09	2.39E-07
SCE1572_5327	-4.539650562	-10.5516	2.18E-09	2.58E-07
SCE1572_7476	36.2567094	-31.8877	2.49E-09	2.91E-07
SCE1572_4622	-4.562977933	-11.8778	2.53E-09	2.92E-07
SCE1572_10924	-4.491386971	-9.39002	2.73E-09	3.13E-07
SCE1572_3307	-4.484904854	-11.0588	3.35E-09	3.79E-07
SCE1572_10644	-4.472721877	-11.5459	3.85E-09	4.31E-07

SCE1572_4800	-4.562545535	-12.8982	3.91E-09	4.33E-07
SCE1572_3726	-4.545785899	-12.8469	4.25E-09	4.63E-07
SCE1572_10043	-4.509345607	-12.4452	4.32E-09	4.63E-07
SCE1572_7220	-4.657481919	-13.9561	4.32E-09	4.63E-07
SCE1572_11285	-4.548095301	-12.9677	4.39E-09	4.67E-07
SCE1572_4426	-4.471169621	-12.0383	4.74E-09	4.98E-07
SCE1572_1683	-5.414381441	-16.037	4.78E-09	4.98E-07
SCE1572_1025	-4.651566196	-13.916	4.88E-09	5.03E-07
SCE1572_2097	-4.926775316	-14.9589	5.13E-09	5.24E-07
SCE1572_7636	-4.387882464	-9.73012	5.33E-09	5.39E-07
SCE1572_1285	-4.369556684	-8.63465	5.58E-09	5.59E-07
SCE1572_8008	-4.394805903	-11.28	6.23E-09	6.18E-07
SCE1572_8395	-4.483311782	-13.0875	6.38E-09	6.27E-07
SCE1572_6179	-4.398035121	-12.0112	6.80E-09	6.58E-07
SCE1572_564	-4.487152178	-13.1314	6.82E-09	6.58E-07
SCE1572_11073	-5.714366983	-16.472	7.55E-09	7.22E-07
SCE1572_8919	-4.730855106	-14.6418	7.71E-09	7.30E-07
SCE1572_2512	-4.456069994	-13.0788	8.02E-09	7.50E-07
SCE1572_8781	-4.407364807	-12.4113	8.09E-09	7.50E-07
SCE1572_8007	-4.391982411	-12.365	8.13E-09	7.50E-07
SCE1572_9416	-4.381198345	-12.2682	8.23E-09	7.53E-07
SCE1572_5033	-4.353441399	-11.4871	8.43E-09	7.65E-07
SCE1572_931	-4.308406667	-10.4815	9.26E-09	8.33E-07
SCE1572_8543	-4.364351089	-12.1928	9.44E-09	8.41E-07
SCE1572_8990	-4.30580005	-11.1876	1.02E-08	9.02E-07
SCE1572_6090	-4.441348488	-13.6491	1.14E-08	1.00E-06
SCE1572_857	-4.438005045	-13.5252	1.20E-08	1.04E-06
SCE1572_10986	-4.236534788	-8.41003	1.29E-08	1.11E-06
SCE1572_9026	-4.445452887	-13.8211	1.38E-08	1.17E-06
SCE1572_3725	-4.236874162	-9.77614	1.38E-08	1.17E-06
SCE1572_9693	-4.272964005	-12.3224	1.63E-08	1.37E-06
SCE1572_11202	-4.271423487	-12.2393	1.69E-08	1.41E-06
SCE1572_7726	-4.628975492	-15.0147	1.86E-08	1.54E-06
SCE1572_8915	-4.508462684	-14.6827	1.99E-08	1.63E-06
SCE1572_7222	-4.271423487	-12.7505	2.01E-08	1.64E-06
SCE1572_10296	-4.201773055	-11.7126	2.24E-08	1.80E-06
SCE1572_9598	-4.178021714	-10.8782	2.24E-08	1.80E-06
SCE1572_3367	-4.182449857	-11.5306	2.31E-08	1.84E-06
SCE1572_7586	-4.317435885	-13.4156	2.34E-08	1.84E-06
SCE1572_8307	4.277915104	-12.5613	2.35E-08	1.84E-06
SCE1572_4905	-4.28589397	-13.2321	2.40E-08	1.87E-06
SCE1572_11570	-4.609293126	-14.8546	2.45E-08	1.88E-06
SCE1572_4101	-4.158391625	-10.7988	2.45E-08	1.88E-06
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SCE1572_2229	-4.343573273	-13.872	2.59E-08	1.96E-06
SCE1572_5084	-4.160865112	-11.7331	2.90E-08	2.18E-06
SCE1572_9593	-4.174399033	-12.2995	2.99E-08	2.22E-06
SCE1572_9410	-4.12221767	-10.4289	3.01E-08	2.22E-06

SCE1572_7219	-4.132389793	-11.1183	3.01E-08	2.22E-06
SCE1572_10499	-4.441348488	-14.6491	3.32E-08	2.43E-06
SCE1572_7339	-4.338778755	-14.0723	3.46E-08	2.51E-06
SCE1572_5183	-4.267018308	-13.8381	3.64E-08	2.62E-06
SCE1572_1286	-4.067829841	-9.47033	3.94E-08	2.82E-06
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SCE1572_975	-4.005917806	-10.6503	6.19E-08	4.23E-06
SCE1572_6280	-4.347774373	-14.6318	6.42E-08	4.36E-06
SCE1572_1017	-4.278918024	-14.6048	6.81E-08	4.55E-06
SCE1572_11076	-4.247964514	-14.251	6.82E-08	4.55E-06
SCE1572_4001	-4.041435982	-12.366	6.83E-08	4.55E-06
SCE1572_9414	-3.990546795	-10.6231	6.92E-08	4.55E-06
SCE1572_2346	-4.185008735	-13.8104	6.93E-08	4.55E-06
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SCE1572_4762	-4.008768688	-11.755	7.09E-08	4.60E-06
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SCE1572_6730	-3.949683133	-8.44672	7.73E-08	4.96E-06
SCE1572_11034	-3.969609748	-10.9139	8.01E-08	5.11E-06
SCE1572_3337	-3.952227306	-10.0244	8.28E-08	5.25E-06
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SCE1572_7709	-3.927117851	-8.01747	8.85E-08	5.52E-06
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SCE1572_9417	-3.936640732	-10.2867	9.26E-08	5.73E-06
SCE1572_1307	-3.925090982	-9.8728	9.64E-08	5.93E-06
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SCE1572_6769	-3.913424915	-9.50521	1.02E-07	6.11E-06
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SCE1572_6874	-3.912506074	-10.4691	1.08E-07	6.30E-06
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SCE1572_5770	-3.893525124	-9.37541	1.14E-07	6.58E-06
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SCE1572_2264	-4.084191905	-14.0392	1.19E-07	6.77E-06
SCE1572_2398	-3.94467252	-12.6704	1.33E-07	7.50E-06
SCE1572_4974	-3.923949272	-12.1774	1.33E-07	7.50E-06
SCE1572_3986	-3.901204492	-11.6921	1.41E-07	7.87E-06
SCE1572_9532	-3.964241978	-13.1573	1.51E-07	8.41E-06
SCE1572_1308	-3.835549214	-9.76397	1.65E-07	9.14E-06

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SCE1572_2980	-3.867274304	-11.9361	1.72E-07	9.39E-06
SCE1572_5016	-3.847283781	-11.3557	1.74E-07	9.43E-06
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SCE1572_861	-3.898977864	-12.904	1.89E-07	9.97E-06
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SCE1572_11538	-3.923500184	-13.3902	1.94E-07	1.01E-05
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SCE1572_5234	-3.834087321	-12.0634	2.22E-07	1.15E-05
SCE1572_4002	-3.797492299	-10.6167	2.23E-07	1.15E-05
SCE1572_10760	-4.396954369	-15.6713	2.26E-07	1.15E-05
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SCE1572_10904	-3.935906327	-13.7174	2.36E-07	1.20E-05
SCE1572_6294	-4.070165279	-14.7092	2.39E-07	1.20E-05
SCE1572_4978	-3.842051072	-12.5255	2.41E-07	1.20E-05
SCE1572_11313	-3.814271114	-12.0297	2.44E-07	1.22E-05
SCE1572_1671	-3.823378882	-12.2882	2.47E-07	1.23E-05
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SCE1572_6003	-3.809273392	-13.0495	3.34E-07	1.56E-05
SCE1572_9591	-3.727409634	-11.0434	3.55E-07	1.65E-05
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SCE1572_10488	-3.701225069	-10.3519	3.88E-07	1.79E-05
SCE1572_4041	-3.699020397	-10.3023	3.93E-07	1.81E-05
SCE1572_9100	-3.773923828	-12.728	4.03E-07	1.84E-05
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SCE1572_2533	-4.134921487	-15.0918	4.36E-07	1.95E-05
SCE1572_977	-3.694114559	-11.1202	4.38E-07	1.95E-05
SCE1572_2320	-3.759301793	-12.7353	4.38E-07	1.95E-05
SCE1572_6366	-3.806460762	-13.8113	4.78E-07	2.12E-05
SCE1572_425	-3.742729206	-12.8285	4.96E-07	2.19E-05

SCE1572_7815	-3.638906867	-7.7428	5.10E-07	2.24E-05
SCE1572_5292	-3.850207413	-14.1187	5.31E-07	2.32E-05
SCE1572_4904	-3.80249298	-13.7841	5.32E-07	2.32E-05
SCE1572_4204	-4.150569092	-15.4466	5.42E-07	2.36E-05
SCE1572_8918	-3.888094848	-14.4783	5.50E-07	2.38E-05
SCE1572_6418	-3.657615847	-11.366	5.58E-07	2.41E-05
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SCE1572_10988	-3.722084896	-13.5613	8.15E-07	3.25E-05
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SCE1572_4940	-3.566468288	-11.5236	9.54E-07	3.73E-05
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SCE1572_6970	-4.139319951	-15.9376	1.00E-06	3.88E-05
SCE1572_2677	-4.030415388	-15.6136	1.06E-06	4.08E-05
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SCE1572_11597	-3.565870846	-12.2334	1.09E-06	4.17E-05
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SCE1572_7587	-3.536306317	-11.2168	1.11E-06	4.21E-05
SCE1572_3608	-3.544001666	-11.737	1.12E-06	4.24E-05
SCE1572_9418	-3.535788179	-11.4792	1.13E-06	4.29E-05
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SCE1572_10688	-3.562324686	-12.4085	1.21E-06	4.54E-05
SCE1572_5654	-3.525976147	-11.5273	1.22E-06	4.55E-05
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SCE1572_11118	-3.50985592	-11.1438	1.28E-06	4.76E-05
SCE1572_4244	-3.52053694	-11.5689	1.29E-06	4.78E-05
SCE1572_11052	-3.533051072	-12.1448	1.31E-06	4.80E-05

SCE1572_3866	-3.54972465	-12.4148	1.31E-06	4.80E-05
SCE1572_11598	-3.564528747	-13.0391	1.34E-06	4.87E-05
SCE1572_10272	-3.549669143	-12.7215	1.34E-06	4.87E-05
SCE1572_6476	-3.511940456	-11.7531	1.35E-06	4.88E-05
SCE1572_2834	-3.485940471	-10.0145	1.36E-06	4.92E-05
SCE1572_9592	-3.622400114	-13.6354	1.39E-06	5.00E-05
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SCE1572_5805	-3.690962379	-14.1618	1.45E-06	5.16E-05
SCE1572_2036	-3.481990473	-10.7585	1.46E-06	5.20E-05
SCE1572_3263	-3.476051028	-10.3456	1.47E-06	5.22E-05
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SCE1572_3370	-3.963301192	-15.6471	1.54E-06	5.43E-05
SCE1572_2043	-3.665702426	-14.3671	1.56E-06	5.48E-05
SCE1572_7425	-4.059919382	-15.8398	1.62E-06	5.65E-05
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SCE1572_5652	-3.518516349	-13.0621	1.73E-06	5.98E-05
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SCE1572_7237	-3.449066402	-10.8398	1.78E-06	6.10E-05
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SCE1572_6128	-3.38284477	-10.5397	2.57E-06	7.95E-05
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SCE1572_8456	-3.443278516	-13.2325	2.87E-06	8.75E-05
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SCE1572_91	-3.347559427	-11.2208	3.36E-06	0.0001
SCE1572_1389	-3.522962254	-14.1754	3.37E-06	0.0001
SCE1572_3151	-3.522648591	-14.0443	3.38E-06	0.0001
SCE1572_4798	-3.50632852	-14.2185	3.47E-06	0.000102
SCE1572_1396	-3.584013717	-14.583	3.47E-06	0.000102
SCE1572_10362	-3.392125973	-12.9052	3.52E-06	0.000103
SCE1572_2400	-3.3539747	-11.8384	3.52E-06	0.000103
SCE1572_1682	-3.32621596	-10.805	3.58E-06	0.000105
SCE1572_11596	-3.446865493	-13.7478	3.59E-06	0.000105
SCE1572_7613	-3.473057348	-13.9488	3.62E-06	0.000105
SCE1572_9721	-3.364386507	-12.3802	3.62E-06	0.000105
SCE1572_5120	-3.334087522	-11.3357	3.69E-06	0.000107
SCE1572_6605	-3.441348488	-13.7505	3.74E-06	0.000108
SCE1572_4973	-3.306935449	-9.79462	3.80E-06	0.000109
SCE1572_5736	-3.415564463	-13.5129	3.81E-06	0.000109
SCE1572_1349	-3.903691703	-16.0554	3.81E-06	0.000109
SCE1572_2022	-3.303618855	-10.2077	3.93E-06	0.000112
SCE1572_2110	-3.388341239	-13.3682	4.01E-06	0.000114
SCE1572_3529	-3.307993455	-10.9992	4.04E-06	0.000115
SCE1572_5032	-3.323149762	-11.8474	4.05E-06	0.000115
SCE1572_5073	-3.360988872	-12.7298	4.11E-06	0.000116
SCE1572_1978	-3.419067041	-13.7617	4.23E-06	0.000119
SCE1572_5359	-3.42273281	-13.9174	4.34E-06	0.000122
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SCE1572_7631	-3.422203439	-13.7355	4.38E-06	0.000123
SCE1572_5235	-3.347998012	-12.5999	4.39E-06	0.000123
SCE1572_2335	-3.355618614	-12.951	4.52E-06	0.000126
SCE1572_7962	-3.303272353	-11.8702	4.61E-06	0.000128
SCE1572_9094	-3.341244937	-12.7397	4.61E-06	0.000128
SCE1572_5038	-3.311755581	-12.0734	4.66E-06	0.000129
SCE1572_2684	-3.316067402	-12.22	4.76E-06	0.000131

SCE1572_1888	-3.514280011	-14.6652	4.82E-06	0.000132
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SCE1572_7678	-3.582211024	-14.8377	4.96E-06	0.000136
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SCE1572_11259	-3.285459547	-12.2027	5.39E-06	0.000145
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SCE1572_630	-3.306418908	-12.8686	5.69E-06	0.000152
SCE1572_6901	-3.345424068	-13.4086	5.73E-06	0.000153
SCE1572_469	-3.271423487	-12.3359	5.83E-06	0.000155
SCE1572_9341	-3.285124398	-12.6532	5.89E-06	0.000156
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SCE1572_6008	-3.313243663	-13.5851	7.59E-06	0.000194
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SCE1572_10749	-3.232691093	-12.4745	7.69E-06	0.000195
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SCE1572_2104	-3.207442861	-11.9507	8.10E-06	0.000204
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SCE1572_10357	-3.247175941	-13.4768	9.56E-06	0.000236
SCE1572_3327	-3.175318719	-11.9278	9.73E-06	0.000239
SCE1572_3331	-3.330317176	-14.2717	9.84E-06	0.000241
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SCE1572_9555	-3.248703411	-13.7048	1.07E-05	0.000258
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SCE1572_623	-3.117971177	-9.39518	1.10E-05	0.000265
SCE1572_8937	-3.110811798	-8.14125	1.11E-05	0.000266
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SCE1572_10764	34.75294298	-32.6396	1.14E-05	0.000272
SCE1572_9360	-3.205535551	-13.3341	1.17E-05	0.000279
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SCE1572_5876	-3.136144628	-12.4213	1.29E-05	0.0003
SCE1572_3781	-3.135361937	-12.5327	1.29E-05	0.0003
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SCE1572_5179	-4.018657417	-16.5125	1.35E-05	0.00031
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SCE1572_5110	-3.18196186	-13.4344	1.43E-05	0.000327
SCE1572_6835	-3.313243663	-14.5851	1.46E-05	0.000334
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SCE1572_8236	-3.182372299	-13.5883	1.54E-05	0.000348
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SCE1572_4588	-3.103546314	-13.733	2.21E-05	0.000467
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SCE1572_9767	-3.078778409	-13.3635	2.25E-05	0.000475
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SCE1572_8451	-3.106201105	-13.71	2.30E-05	0.000483
SCE1572_6363	-3.072877808	-13.0785	2.31E-05	0.000484
SCE1572_7589	-3.083454896	-13.328	2.36E-05	0.000493
SCE1572_4074	-2.990241735	-10.8568	2.37E-05	0.000494
SCE1572_4866	-3.204309291	-14.6827	2.39E-05	0.000497
SCE1572_7814	-2.986559716	-10.6412	2.39E-05	0.000497
SCE1572_4736	-3.024783519	-12.3656	2.45E-05	0.000508
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SCE1572_3769	-3.098956291	-13.63	2.48E-05	0.000512
SCE1572_9404	-3.248703411	-14.7048	2.49E-05	0.000513
SCE1572_8099	-3.063181554	-13.2585	2.50E-05	0.000514
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SCE1572_5087	-3.047840232	-13.1471	2.57E-05	0.000527
SCE1572_10535	-3.018442746	-12.6601	2.60E-05	0.000531
SCE1572_1966	-3.024690894	-12.7725	2.62E-05	0.000534
SCE1572_930	-3.023110587	-12.9473	2.67E-05	0.000543
SCE1572_10702	-3.473057348	-15.6858	2.67E-05	0.000543
SCE1572_906	34.56949684	-32.7313	2.69E-05	0.000545
SCE1572_10765	-3.059919382	-13.3398	2.70E-05	0.000545
SCE1572_9590	-3.004708735	-12.5322	2.73E-05	0.00055
SCE1572_9339	-2.995691191	-12.2314	2.73E-05	0.00055
SCE1572_9557	-3.09613957	-13.8985	2.76E-05	0.000555
SCE1572_10344	-2.942131556	-8.6554	2.85E-05	0.000571
SCE1572_2961	-2.979514072	-12.0779	2.95E-05	0.000591
SCE1572_10494	-2.989816975	-12.408	2.96E-05	0.000591

SCE1572_5726	-2.959890564	-11.3454	2.96E-05	0.000591
SCE1572_673	-3.003727704	-12.8731	3.04E-05	0.000606
SCE1572_9514	-2.997793966	-12.8878	3.05E-05	0.000607
SCE1572_3198	-3.451995733	-15.6963	3.09E-05	0.000614
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SCE1572_2285	-3.856385988	-16.5937	3.28E-05	0.000643
SCE1572_5135	-2.969819245	-12.4956	3.29E-05	0.000643
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SCE1572_10400	-3.039250045	-13.6001	3.38E-05	0.000658
SCE1572_5192	-3.021445234	-13.7741	3.44E-05	0.000669
SCE1572_1926	-2.92308332	-10.985	3.49E-05	0.000677
SCE1572_6873	-3.003572065	-13.3356	3.50E-05	0.000679
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SCE1572_4967	-3.058019849	-13.8933	3.57E-05	0.000687
SCE1572_11378	-3.035494311	-13.9535	3.57E-05	0.000687
SCE1572_1621	-2.96998102	-12.9616	3.67E-05	0.000705
SCE1572_618	-2.937392551	-12.2023	3.68E-05	0.000706
SCE1572_4221	-2.960560556	-12.7404	3.70E-05	0.000708
SCE1572_2409	-2.997248524	-13.5452	3.72E-05	0.000711
SCE1572_2744	-3.082978398	-14.173	3.74E-05	0.000713
SCE1572_707	-2.952712105	-12.7236	3.76E-05	0.000715
SCE1572_9421	-2.930386569	-12.0311	3.79E-05	0.00072
SCE1572_10286	-2.917253118	-11.8317	3.86E-05	0.000732
SCE1572_9041	-2.895965996	-10.3209	3.87E-05	0.000732
SCE1572_7671	4.013978732	-16.4658	3.92E-05	0.00074
SCE1572_3236	-2.907460172	-11.666	3.95E-05	0.000744
SCE1572_3513	-2.956186595	-12.9322	3.96E-05	0.000746
SCE1572_6981	3.468116051	-15.5164	4.01E-05	0.000753
SCE1572_1309	-2.876913691	-7.67328	4.04E-05	0.000757
SCE1572_10882	-2.924324816	-12.5542	4.11E-05	0.00077
SCE1572_11569	-3.252314664	-15.4551	4.15E-05	0.000775
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SCE1572_1976	-2.901565971	-11.9655	4.29E-05	0.000798
SCE1572_2633	3.711170997	-16.0549	4.34E-05	0.000806
SCE1572_6379	34.44174129	-32.7952	4.69E-05	0.00087
SCE1572_348	-3.008389081	-13.9921	4.75E-05	0.000879
SCE1572_3415	-2.978376512	-13.7525	4.80E-05	0.000886
SCE1572_7453	-2.870646681	-11.6555	4.84E-05	0.000892
SCE1572_10033	-2.881586542	-12.0619	4.86E-05	0.000895
SCE1572_10907	-2.865811001	-11.4206	4.88E-05	0.000898
SCE1572_9720	-2.962319433	-13.7188	4.92E-05	0.000904
SCE1572_11292	-2.869744371	-12.1461	5.15E-05	0.000944

SCE1572_3376	-3.078778409	-14.8829	5.20E-05	0.000951
SCE1572_8785	-3.011903565	-14.4657	5.22E-05	0.000952
SCE1572_6331	-2.953527146	-13.7863	5.23E-05	0.000954
SCE1572_11077	-3.426701713	-16.1564	5.25E-05	0.000955
SCE1572_1801	-3.104313501	-14.777	5.27E-05	0.000958
SCE1572_1511	-2.903307035	-12.9587	5.29E-05	0.000959
SCE1572_10111	-2.862286589	-11.9673	5.30E-05	0.00096
SCE1572_4486	-2.999343942	-14.2446	5.49E-05	0.000993
SCE1572_4787	-2.84105684	-11.2292	5.51E-05	0.000994
SCE1572_8657	-3.773923828	-16.8573	5.57E-05	0.001003
SCE1572_10046	-2.843712158	-11.4853	5.58E-05	0.001004
SCE1572_9971	-2.890069114	-12.8955	5.59E-05	0.001004
SCE1572_6133	-2.856385988	-12.1868	5.60E-05	0.001004
SCE1572_8238	-2.881665396	-12.844	5.67E-05	0.001014
SCE1572_11593	-2.90267964	-13.3543	5.69E-05	0.001014
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SCE1572_426	-3.091602449	-14.7834	5.75E-05	0.001022
SCE1572_10082	-2.912529066	-13.4806	5.78E-05	0.001023
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SCE1572_3462	-5.441348488	-18.6085	5.79E-05	0.001023
SCE1572_4062	-2.88779894	-13.1574	5.80E-05	0.001023
SCE1572_1345	-2.868509547	-12.5912	5.88E-05	0.001032
SCE1572_2665	-2.921839049	-13.5645	5.89E-05	0.001032
SCE1572_7573	-2.903691703	-13.5554	5.89E-05	0.001032
SCE1572_4840	-2.898977864	-13.404	5.89E-05	0.001032
SCE1572_6719	-2.88495514	-13.2429	5.98E-05	0.001047
SCE1572_2431	-2.91600997	-13.5674	6.00E-05	0.001049
SCE1572_2205	-3.318729202	-15.7629	6.12E-05	0.001067
SCE1572_5002	-2.831419072	-11.826	6.13E-05	0.001067
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SCE1572_2109	-2.987630521	-14.4431	6.48E-05	0.001122
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SCE1572_407	-2.916092234	-13.7214	6.57E-05	0.001135
SCE1572_6846	-2.928535774	-14.1645	6.60E-05	0.001136
SCE1572_531	-2.880471606	-13.2596	6.60E-05	0.001136
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SCE1572_10217	-2.704382894	-14.3332	0.000229	0.003165
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SCE1572_6406	-2.856385988	-15.4416	0.000246	0.003351
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SCE1572_10107	-2.58593411	-13.1659	0.000268	0.003593
SCE1572_4943	-2.540736956	-11.555	0.000272	0.003646
SCE1572_6733	-2.615377888	-13.7361	0.000273	0.003652
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SCE1572_9150	-2.682356588	-14.5286	0.000274	0.003653
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SCE1572_2360	-2.700266786	-14.6937	0.000296	0.003931
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SCE1572_2481	-2.510313955	-11.1914	0.000305	0.00401
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SCE1572_6479	-2.565754023	-13.4765	0.000325	0.004207
SCE1572_6792	-2.601128933	-13.8192	0.000329	0.004247
SCE1572_1364	-2.487998582	-10.476	0.000329	0.004247

SCE1572_2761	-2.536926148	-12.8709	0.000329	0.004247
SCE1572_2473	-2.528755534	-12.6639	0.000331	0.004265
SCE1572_1622	-2.655338469	-14.644	0.000332	0.004276
SCE1572_2393	-2.554532333	-13.2318	0.000336	0.004314
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SCE1572_4623	-2.62031863	-14.2911	0.000339	0.004347
SCE1572_6782	-3.386900704	-17.0508	0.000343	0.004395
SCE1572_6295	-2.555216453	-13.528	0.000344	0.004402
SCE1572_2760	-2.518281149	-12.9203	0.000349	0.004457
SCE1572_8654	-2.470982274	-9.85292	0.00035	0.004461
SCE1572_6274	-2.538527557	-13.1773	0.00035	0.004461
SCE1572_11266	-2.47341988	-10.6579	0.000353	0.004492
SCE1572_7325	-2.487898365	-11.6382	0.000356	0.004521
SCE1572_1356	-2.519860517	-12.8501	0.000357	0.004522
SCE1572_7342	-2.504225691	-12.3155	0.000357	0.004522
SCE1572_7518	-2.471019986	-10.7561	0.000358	0.004531
SCE1572_878	-2.541183756	-13.3171	0.000359	0.004539
SCE1572_5230	-2.474676665	-11.0097	0.00036	0.004548
SCE1572_10832	-2.503786197	-12.3908	0.000362	0.004565
SCE1572_9662	-2.493815908	-12.2494	0.000368	0.004634
SCE1572_3844	-2.480740033	-11.934	0.000368	0.004635
SCE1572_2344	-2.507168671	-12.6747	0.000371	0.004668
SCE1572_11398	-2.492676789	-12.583	0.000373	0.004678
SCE1572_3640	-2.804855687	-15.6788	0.000374	0.004684
SCE1572_7269	-2.470796752	-11.5979	0.000377	0.004724
SCE1572_2675	-2.652513654	-14.5767	0.000378	0.004724
SCE1572_10609	-2.478519721	-11.8708	0.000379	0.004736
SCE1572_7466	-2.502749033	-12.7469	0.000388	0.004846
SCE1572_3417	-2.54151265	-13.6491	0.000401	0.005001
SCE1572_8258	-2.587897152	-14.3073	0.000403	0.005016
SCE1572_8425	-2.736091754	-15.3173	0.000404	0.005023
SCE1572_7558	4.561466527	-17.777	0.000406	0.005035
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SCE1572_10300	-2.522648591	-13.5443	0.000407	0.005042
SCE1572_8804	-2.640657297	-14.8389	0.000408	0.005044
SCE1572_2276	-2.46264789	-12.1092	0.00041	0.005066
SCE1572_6368	-2.556304595	-13.9013	0.000414	0.005116
SCE1572_8658	-2.549408234	-13.7326	0.000418	0.005156
SCE1572_33	-2.433222598	-9.6979	0.000422	0.005195
SCE1572_1698	-2.856385988	-15.8135	0.000423	0.005197
SCE1572_6836	-2.856385988	-15.8135	0.000423	0.005197
SCE1572_3905	-2.446510194	-11.5668	0.000424	0.005197
SCE1572_9147	-2.629877458	-14.7289	0.000424	0.005197
SCE1572_10026	-2.47424037	-12.7792	0.000425	0.005199
SCE1572_4689	-2.464130986	-12.4373	0.00043	0.005264
SCE1572_7489	-3.145892605	-16.5863	0.000436	0.005331
SCE1572_4999	-2.427648984	-10.3505	0.00044	0.005369

SCE1572_8353	-2.421755124	-9.64158	0.00044	0.005369
SCE1572_11287	-2.53281004	-13.873	0.000441	0.00537
SCE1572_9667	-2.515730685	-13.679	0.000446	0.005412
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SCE1572_8630	-2.522231591	-13.7643	0.000456	0.005531
SCE1572_7574	-2.4705792	-12.846	0.000456	0.005531
SCE1572_3849	3.772970632	-17.1713	0.000459	0.005547
SCE1572_2811	3.750944326	-17.1823	0.000459	0.005547
SCE1572_947	2.902598919	-15.4706	0.000461	0.005568
SCE1572_568	-2.827816836	-15.8278	0.000462	0.005571
SCE1572_879	-2.450455919	-12.5115	0.000462	0.005571
SCE1572_1634	-2.426067031	-11.2582	0.000468	0.005624
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SCE1572_8349	3.518653444	-16.7135	0.00047	0.005627
SCE1572_10056	-2.98191687	-16.3788	0.00047	0.005627
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SCE1572_10097	-2.720730888	-15.2684	0.000472	0.005648
SCE1572_6683	-2.479316339	-13.4457	0.000476	0.005694
SCE1572_843	-2.440023091	-12.1903	0.000477	0.0057
SCE1572_5766	-2.414266581	-10.6484	0.000479	0.00571
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SCE1572_9891	4.535931435	-17.7898	0.000481	0.005725
SCE1572_3734	2.947745033	-15.5839	0.000482	0.005726
SCE1572_4808	-2.534457893	-14.2806	0.000485	0.005756
SCE1572_2231	-2.794985443	-15.9317	0.000488	0.005775
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SCE1572_9420	-2.560930104	-14.5569	0.000532	0.006235
SCE1572_8904	3.705856436	-17.2048	0.000534	0.006244
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SCE1572_8317	-2.602068799	-14.9838	0.000536	0.00626
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SCE1572_4776	-2.398472653	-12.0162	0.000559	0.006501
SCE1572_6130	-2.723935692	-15.7193	0.000566	0.006567
SCE1572_9352	-2.551531406	-14.4387	0.000566	0.006567
SCE1572_7630	-2.551531406	-14.6611	0.000569	0.006589
SCE1572_4080	-2.453173924	-13.3477	0.000569	0.006589
SCE1572_7867	-2.963301192	-16.1471	0.000576	0.006644

SCE1572_6297	-2.856385988	-16.0937	0.000576	0.006644
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SCE1572_7821	-2.501291029	-14.2972	0.000577	0.006644
SCE1572_2339	-2.547754715	-14.5635	0.000577	0.006644
SCE1572_4603	-2.388607026	-11.7906	0.000578	0.006647
SCE1572_7617	-2.401058767	-12.2583	0.000582	0.006685
SCE1572_5003	-2.593351582	-14.7846	0.000586	0.006724
SCE1572_9148	-2.411430966	-12.8289	0.000591	0.006769
SCE1572_6049	-2.487460413	-14.0631	0.000596	0.006816
SCE1572_10493	-2.375760147	-11.4975	0.000596	0.006816
SCE1572_6178	-2.490063774	-14.3028	0.000597	0.006821
SCE1572_8782	-2.432246281	-13.3852	0.000599	0.006836
SCE1572_7759	-2.448012219	-13.5202	0.000603	0.006869
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SCE1572_424	-2.497699343	-14.3524	0.000616	0.007007
SCE1572_4051	-2.396024498	-12.5313	0.000617	0.007008
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SCE1572_2105	-2.374069536	-12.0232	0.000637	0.007154
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SCE1572_11424	-2.562654785	-14.7999	0.000676	0.007513
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SCE1572_8851	-3.271423487	-17.1085	0.000682	0.007554
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SCE1572_7229	-2.385165653	-13.1366	0.0007	0.007745
SCE1572_3497	-2.354048544	-12.2097	0.000703	0.007763
SCE1572_2673	-2.398973537	-13.2349	0.000712	0.007851
SCE1572_2759	-2.394404987	-13.2494	0.000712	0.007851
SCE1572_9741	-2.366201712	-12.8062	0.00072	0.007928
SCE1572_9740	-2.382269256	-12.9681	0.000721	0.007937
SCE1572_5001	-2.348044769	-12.0519	0.000725	0.007967
SCE1572_3666	3.659313851	-17.2281	0.000727	0.007974

SCE1572_292	-3.026310989	-16.816	0.000727	0.007974
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SCE1572_7776	-2.36575087	-13.3519	0.000797	0.008582
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SCE1572_4979	-2.640657297	-15.4239	0.000854	0.009
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SCE1572_1525	-2.310201815	-11.8887	0.000858	0.009029
SCE1572_7045	-2.330317176	-12.8786	0.000859	0.00903
SCE1572_10054	-2.310951851	-12.1964	0.000869	0.009124
SCE1572_4737	-2.385495254	-13.8327	0.000876	0.009181
SCE1572_542	3.372432703	-16.7866	0.00088	0.009208
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SCE1572_6092	3.103615944	-16.506	0.000883	0.009226

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SCE1572_7887	-2.319456183	-12.5845	0.000905	0.009415
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SCE1572_5685	-2.321098646	-12.874	0.000918	0.009523
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SCE1572_7745	-2.272970613	-10.3285	0.000935	0.00967
SCE1572_472	-2.499229405	-14.8317	0.000948	0.009796
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SCE1572_10880	-2.287543152	-12.1247	0.000978	0.010001
SCE1572_7441	2.708398631	-15.5337	0.000984	0.01005
SCE1572_9128	-2.519351	-15.0695	0.000987	0.010072
SCE1572_9106	3.068426516	-16.5236	0.000995	0.010128
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SCE1572_6985	3.586557508	-17.2645	0.001	0.010158
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SCE1572_1513	3.333438571	-16.8061	0.001002	0.010174
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SCE1572_4686	-2.345119948	-13.701	0.00106	0.010679
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SCE1572_8791	-2.323890907	-13.4124	0.001067	0.010737
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SCE1572_10973	-2.261805484	-11.9647	0.001091	0.010922
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SCE1572_8796	4.086128518	-18.0147	0.001141	0.011269
SCE1572_2141	4.050504608	-18.0325	0.001141	0.011269
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SCE1572_10106	-2.242897789	-11.8327	0.001174	0.011521
SCE1572_6956	4.343286357	-17.8861	0.001176	0.011521
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SCE1572_7475	-2.236391471	-11.5816	0.001183	0.011578
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SCE1572_8455	-2.425228823	-14.7947	0.001195	0.011638
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SCE1572_8620	-2.389604913	-14.7768	0.001195	0.011638
SCE1572_1339	-2.311837755	-13.7138	0.001223	0.011898
SCE1572_11194	-2.335553824	-14.3801	0.001234	0.011996
SCE1572_6666	-2.250564882	-12.4966	0.001239	0.012034
SCE1572_2008	2.57824224	-15.1837	0.001244	0.012058
SCE1572_1872	-2.35739671	-14.3176	0.001245	0.012058
SCE1572_6203	-2.332305729	-14.3051	0.001245	0.012058
SCE1572_7542	-2.378338691	-14.4396	0.001252	0.012114
SCE1572_10066	-2.234172092	-12.2178	0.001257	0.012151
SCE1572_372	-2.302787658	-13.67	0.001259	0.012158
SCE1572_5233	-2.773923828	-16.3573	0.001267	0.012217
SCE1572_5269	-2.233119599	-12.3734	0.001267	0.012217
SCE1572_9356	-2.248703411	-12.8829	0.001283	0.012358
SCE1572_4942	-2.512431587	-15.6136	0.001287	0.012385
SCE1572_6654	-2.20444191	-10.2102	0.001289	0.012388
SCE1572_7408	-2.431888159	-15.0258	0.00129	0.012388
SCE1572_6296	-2.302450383	-14.0695	0.001296	0.012435
SCE1572_8052	3.272897029	-16.8364	0.001306	0.012526
SCE1572_9972	-2.241049838	-12.8164	0.001316	0.012607
SCE1572_10536	-2.289125489	-13.8448	0.001319	0.012625
SCE1572_105	33.68685379	-33.1726	0.001334	0.012736
SCE1572_4860	33.6410501	-33.1955	0.001334	0.012736
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SCE1572_4621	-2.263967682	-13.5973	0.00134	0.01278
SCE1572_10281	-2.265025716	-13.3765	0.001344	0.012797
SCE1572_4547	2.43484531	-14.5924	0.001346	0.012797
SCE1572_5193	-2.341812815	-14.5144	0.001346	0.012797
SCE1572_10703	-2.271423487	-13.6699	0.00135	0.012831
SCE1572_5264	-2.271423487	-13.4386	0.001353	0.012833
SCE1572_1842	2.727223352	-15.6942	0.001353	0.012833
SCE1572_8106	2.456496968	-14.8295	0.001355	0.012838
SCE1572_8896	-2.302011807	-14.0489	0.001359	0.012867
SCE1572_4972	-2.412779336	-15.0353	0.001365	0.012908
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SCE1572_10686	-2.280301638	-13.8492	0.001391	0.013107
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SCE1572_3648	-2.271423487	-13.7016	0.001398	0.013151
SCE1572_799	-2.225327072	-12.9037	0.001403	0.013192
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SCE1572_8375	-2.32204956	-14.3608	0.00141	0.013219
SCE1572_2695	-2.460457311	-15.4551	0.001415	0.013252
SCE1572_7284	4.013978732	-18.0508	0.00142	0.013252
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SCE1572_1724	-2.257484296	-13.5	0.001421	0.013252
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SCE1572_853	-2.237476155	-13.1992	0.001428	0.013304
SCE1572_10152	-2.222513887	-12.6106	0.001429	0.013304
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SCE1572_4336	2.396955022	-14.467	0.001435	0.013336
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SCE1572_11554	2.728576513	-15.8861	0.001446	0.013412
SCE1572_5895	2.309998656	-13.8153	0.001448	0.013419
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SCE1572_1348	-2.184149666	-11.3393	0.001482	0.01363
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SCE1572_6802	-2.180162507	-11.5387	0.001532	0.014016

SCE1572_11360	-2.182820883	-12.124	0.00156	0.014256
SCE1572_8758	-2.190286724	-12.2341	0.001561	0.014257
SCE1572_4319	2.702581304	-15.8991	0.001578	0.014383
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SCE1572_10083	-2.17800479	-11.9594	0.001583	0.014415
SCE1572_2108	-2.294143564	-14.2048	0.001592	0.014485
SCE1572_3171	-2.219376739	-13.2308	0.001599	0.014534
SCE1572_9311	-2.191622776	-12.4325	0.001602	0.014546
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SCE1572_9223	2.272897029	-13.6359	0.001622	0.014666
SCE1572_2527	2.353067378	-14.2963	0.001622	0.014666
SCE1572_2542	2.938029879	-16.5888	0.001623	0.014666
SCE1572_675	2.938029879	-16.5888	0.001623	0.014666
SCE1572_7667	2.238559489	-13.1081	0.001623	0.014666
SCE1572_584	-2.261081543	-14.0694	0.001631	0.014728
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SCE1572_10461	-2.180570057	-12.5042	0.001653	0.014884
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SCE1572_8809	2.659313851	-15.7281	0.001711	0.015264
SCE1572_6721	-2.259549387	-14.2687	0.001713	0.015271
SCE1572_8161	3.209703203	-16.868	0.001715	0.015271
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SCE1572_8463	-2.144029861	-10.6591	0.00173	0.015371
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SCE1572_10120	-2.108915957	-12.0899	0.002185	0.018338
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SCE1572_8779	-2.414381441	-15.537	0.002224	0.01855
SCE1572_6670	3.898501514	-18.1085	0.002228	0.018569
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SCE1572_1303	-2.25179468	-14.9938	0.002637	0.021137
SCE1572_11273	-2.117878229	-13.5698	0.002654	0.021246
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SCE1572_7238	-2.070863573	-12.4173	0.002663	0.021281
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SCE1572_945	2.335580889	-14.963	0.002675	0.021328
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SCE1572_3930	-2.057373046	-11.7006	0.002707	0.021515
SCE1572_9081	2.83710097	-16.6392	0.00271	0.021515
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SCE1572_10981	-2.0692932	-12.5264	0.002716	0.021545
SCE1572_7784	-2.284207654	-15.1862	0.002733	0.021663
SCE1572_10017	-2.087977346	-13.2191	0.002755	0.021824
SCE1572_7835	-2.211302495	-14.6088	0.002762	0.021832
SCE1572_7202	3.343286357	-17.3861	0.002763	0.021832
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SCE1572_5388	-2.06188663	-12.2214	0.002771	0.021853
SCE1572_11495	2.394459009	-15.1601	0.002772	0.021853
SCE1572_10210	2.394459009	-15.1601	0.002772	0.021853
SCE1572_5469	2.245852206	-14.6129	0.002774	0.021853
SCE1572_5251	-2.069180765	-12.4059	0.002778	0.021872
SCE1572_1091	2.340929012	-15.08	0.002788	0.021937
SCE1572_4932	-2.042131507	-11.2747	0.002802	0.022026
SCE1572_4657	-2.252314664	-14.9551	0.002804	0.022026
SCE1572_936	3.816039354	-18.1498	0.002812	0.022066
SCE1572_5788	-2.049031066	-11.8535	0.002813	0.022066
SCE1572_2584	2.337385756	-14.9822	0.002818	0.022089

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SCE1572_8946	-2.046179325	-11.585	0.002836	0.022197
SCE1572_9778	-2.070604478	-12.8263	0.002847	0.022252
SCE1572_9978	2.746498421	-16.3626	0.002848	0.022252
SCE1572_1221	2.451042537	-15.5103	0.002856	0.022296
SCE1572_5725	32.95588694	-33.5381	0.002864	0.022296
SCE1572_4079	32.9347813	-33.5487	0.002864	0.022296
SCE1572_8624	32.9347813	-33.5487	0.002864	0.022296
SCE1572_8064	32.9347813	-33.5487	0.002864	0.022296
SCE1572_3420	-2.06635915	-12.6522	0.002881	0.022415
SCE1572_8854	-2.166726108	-14.602	0.002886	0.022433
SCE1572_3969	-2.043555936	-12.0406	0.002904	0.02256
SCE1572_10073	-2.080239366	-13.1495	0.002918	0.022652
SCE1572_10555	2.322757544	-15.196	0.002925	0.022688
SCE1572_11386	-2.033862689	-11.3639	0.002938	0.022764
SCE1572_10118	-2.085411501	-13.3323	0.002942	0.022764
SCE1572_3622	2.225763054	-14.3599	0.002943	0.022764
SCE1572_7597	-2.150117191	-14.2999	0.002943	0.022764
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SCE1572_197	-2.121528057	-14.0205	0.002985	0.023038
SCE1572_6045	-2.025416093	-10.9567	0.00299	0.02306
SCE1572_10642	-2.046653127	-12.3229	0.002993	0.023061
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SCE1572_9003	-2.058694163	-12.7607	0.003013	0.023163
SCE1572_10283	-2.176564301	-14.4596	0.003036	0.023293
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SCE1572_2318	33.44174129	-33.2952	0.003043	0.023293
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SCE1572_10153	-2.250664927	-15.0746	0.003116	0.023832
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SCE1572_4962	-2.145892605	-14.3494	0.003163	0.024124
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SCE1572_11346	-2.06120578	-13.416	0.003304	0.024935
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SCE1572_6732	-2.09633678	-14.1517	0.003382	0.025444
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SCE1572_983	-2.014450834	-12.1672	0.003452	0.025881
SCE1572_1798	-2.154609822	-14.76	0.003463	0.025941
SCE1572_704	-2.033731929	-13.0086	0.003476	0.026019
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SCE1572_2724	-2.095573652	-14.3507	0.003537	0.026402
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SCE1572_7173	-2.044290033	-13.3184	0.003551	0.02647
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SCE1572_2145	-2.045656339	-13.5649	0.003623	0.026834
SCE1572_11042	2.053033434	-13.1984	0.003635	0.026904
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SCE1572_10806	2.008393771	-12.8638	0.004157	0.029366
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SCE1572_2460	32.85677879	-33.5877	0.004166	0.029366
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SCE1572_10709	32.85677879	-33.5877	0.004166	0.029366
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SCE1572_7481	32.85677879	-33.5877	0.004166	0.029366

SCE1572_8523	32.85677879	-33.5877	0.004166	0.029366
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SCE1572_6920	32.85677879	-33.5877	0.004166	0.029366
SCE1572_11344	-1.956759088	-11.6331	0.00418	0.029447
SCE1572_3081	-2.271423487	-15.6085	0.004189	0.02947
SCE1572_7281	-2.212529798	-15.5791	0.004189	0.02947
SCE1572_8874	2.08506183	-13.9709	0.004192	0.029472
SCE1572_9736	2.442822031	-15.8364	0.004233	0.029719
SCE1572_2578	2.442822031	-15.8364	0.004233	0.029719
SCE1572_8903	2.23759016	-15.2385	0.004236	0.029719
SCE1572_11601	-2.054931667	-14.371	0.004272	0.029952
SCE1572_35	-2.133919963	-15.2178	0.004278	0.029966
SCE1572_1424	-2.090851241	-14.6113	0.004279	0.029966
SCE1572_6325	-2.107924755	-14.8829	0.004284	0.029979
SCE1572_9434	-1.959479481	-12.0096	0.0043	0.030069
SCE1572_4071	-2.175208172	-15.2874	0.004323	0.030192
SCE1572_4382	2.239538432	-15.0311	0.004323	0.030192
SCE1572_1262	-1.995789044	-13.4858	0.004336	0.030262
SCE1572_5581	-1.971863205	-12.6994	0.004358	0.030396
SCE1572_7543	-2.089976616	-14.5029	0.004364	0.030404
SCE1572_1755	-2.115304285	-14.9861	0.004365	0.030404
SCE1572_2305	-2.07438664	-14.7374	0.004387	0.030535
SCE1572_6586	2.126607587	-14.4095	0.004405	0.030641
SCE1572_2028	-1.987120464	-13.3931	0.004427	0.030745
SCE1572_6705	-1.927244601	-9.50915	0.004427	0.030745
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SCE1572_9283	-2.041125868	-14.3779	0.004438	0.030787
SCE1572_8133	2.483464015	-16.2311	0.004447	0.030815
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SCE1572_2487	-1.969959495	-12.893	0.004491	0.03108
SCE1572_6808	-1.971249945	-12.8437	0.0045	0.03112
SCE1572_8460	-2.138156956	-15.1727	0.00451	0.03117
SCE1572_2975	2.325394885	-15.695	0.004545	0.031303
SCE1572_4036	3.728576513	-18.1935	0.004551	0.031303
SCE1572_7715	3.728576513	-18.1935	0.004551	0.031303
SCE1572_9795	3.682772823	-18.2164	0.004551	0.031303
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SCE1572_1822	2.143614012	-14.816	0.004604	0.031606
SCE1572_4777	-1.979657363	-13.1896	0.004608	0.031619
SCE1572_5585	2.429016231	-15.8433	0.004614	0.031636

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SCE1572_3324	-1.948623936	-12.6614	0.004641	0.031738
SCE1572_9973	-1.94185533	-12.2085	0.004652	0.031793
SCE1572_1613	2.041993108	-13.9493	0.004664	0.031857
SCE1572_5102	-1.978376512	-13.2525	0.004685	0.031977
SCE1572_5483	2.257829581	-15.4694	0.004695	0.032023
SCE1572_3101	-2.593351582	-16.7106	0.004701	0.032045
SCE1572_4175	2.095693382	-14.5505	0.004738	0.032241
SCE1572_6745	-2.075026274	-14.5103	0.004738	0.032241
SCE1572_7991	-1.988251436	-13.6769	0.004739	0.032241
SCE1572_9638	-2.08855943	-14.8926	0.004762	0.032361
SCE1572_2411	-1.976295452	-13.6972	0.004767	0.032361
SCE1572_10523	3.188008132	-17.4638	0.004771	0.032361
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SCE1572_10143	-2.030415388	-14.2916	0.004837	0.032757
SCE1572_10856	-1.936653328	-12.2948	0.004847	0.032787
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SCE1572_611	-2.310951851	-16.0038	0.004863	0.032872
SCE1572_11249	-2.154066536	-15.2522	0.004878	0.03295
SCE1572_7675	1.954580802	-12.6202	0.004895	0.033049
SCE1572_1149	-1.917201989	-11.4637	0.004911	0.03312
SCE1572_4	-1.953808385	-12.9686	0.004914	0.03312
SCE1572_1795	-1.959479481	-13.1795	0.004915	0.03312
SCE1572_10456	2.326835836	-15.7244	0.004935	0.033231
SCE1572_9063	2.138860482	-14.7404	0.004947	0.03329
SCE1572_10704	-2.059919382	-14.8398	0.004955	0.033322
SCE1572_11031	-2.106364241	-15.0666	0.00496	0.033334
SCE1572_10870	2.44739476	-16.2491	0.004963	0.033336
SCE1572_5040	-1.991900958	-13.8738	0.004997	0.033539
SCE1572_7435	2.41507704	-15.8502	0.005032	0.033755
SCE1572_11087	-2.119420394	-15.3626	0.005044	0.033812
SCE1572_3516	-2.035356129	-14.5836	0.005052	0.033842
SCE1572_11372	-1.966944363	-13.5255	0.005061	0.033866
SCE1572_7055	1.985587131	-13.4211	0.005062	0.033866
SCE1572_5488	2.120893936	-14.8274	0.005073	0.033901
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SCE1572_10463	-1.905646848	-11.356	0.005091	0.034
SCE1572_1361	-1.941274885	-13.0918	0.005109	0.034078
SCE1572_9609	-1.941274885	-13.0918	0.005109	0.034078
SCE1572_10011	-1.902688035	-11.1418	0.00512	0.034125
SCE1572_6912	2.301466181	-15.5851	0.005139	0.034186
SCE1572_8916	-2.188961327	-15.4798	0.005139	0.034186
SCE1572_8405	-2.136493907	-15.4536	0.005139	0.034186
SCE1572_5231	-1.935632739	-12.8457	0.005142	0.034186

SCE1572_6720	-1.889617416	-7.81122	0.00515	0.034218
SCE1572_5029	-1.982797367	-13.83	0.005192	0.034471
SCE1572_986	-1.902928574	-11.447	0.005195	0.034471
SCE1572_10774	-1.930386569	-12.6566	0.005203	0.034489
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SCE1572_7571	-1.948128556	-13.3107	0.005213	0.034531
SCE1572_10834	2.062000247	-14.3829	0.005256	0.034789
SCE1572_698	-2.234897611	-15.8898	0.00526	0.034793
SCE1572_1502	-1.967747097	-13.5904	0.005277	0.034861
SCE1572_11548	-1.954450274	-13.5838	0.005277	0.034861
SCE1572_9281	-1.914631129	-12.3112	0.005292	0.034941
SCE1572_6074	-1.900260797	-11.6614	0.005323	0.035119
SCE1572_10069	2.659313851	-16.7281	0.005329	0.035119
SCE1572_6421	2.659313851	-16.7281	0.005329	0.035119
SCE1572_7582	-1.915279677	-12.5642	0.005338	0.035158
SCE1572_8002	2.124764111	-14.71	0.005349	0.035163
SCE1572_11059	2.124764111	-14.71	0.005349	0.035163
SCE1572_2838	2.124764111	-14.71	0.005349	0.035163
SCE1572_1885	-2.119420394	-15.1402	0.005356	0.035179
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SCE1572_2014	2.300118498	-15.7378	0.005361	0.035179
SCE1572_9823	1.966807528	-13.293	0.005416	0.035513
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SCE1572_11246	2.091146592	-14.6199	0.005438	0.035575
SCE1572_7688	2.069200702	-14.4996	0.005447	0.035575
SCE1572_8798	2.167688147	-15.2735	0.005458	0.035575
SCE1572_4961	-2.090851241	-15.1963	0.005458	0.035575
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SCE1572_8427	2.898501514	-17.0236	0.005472	0.035575
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SCE1572_10631	33.27181629	-33.3801	0.005479	0.035575
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SCE1572_3686	33.27181629	-33.3801	0.005479	0.035575
SCE1572_3287	33.27181629	-33.3801	0.005479	0.035575
SCE1572_8827	33.23836981	-33.3969	0.005479	0.035575
SCE1572_9219	2.386787996	-15.8644	0.005492	0.035633
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SCE1572_10886	1.971433037	-13.5802	0.005561	0.036039
SCE1572_4236	-1.95655015	-13.6785	0.005566	0.036051
SCE1572_4225	2.231076853	-15.3573	0.00557	0.036055
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SCE1572_11595	-1.86116471	-9.84115	0.005908	0.037616
SCE1572_9297	-1.92963497	-13.3644	0.005923	0.037687
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SCE1572_7819	-1.881897314	-11.9166	0.005948	0.037788
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SCE1572_1829	-1.867817994	-10.9603	0.005969	0.037842
SCE1572_7901	2.277013138	-15.5973	0.005981	0.037851
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SCE1572_7069	-1.933427024	-14.0587	0.006507	0.040193
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SCE1572_7877	2.163962658	-15.5164	0.007269	0.043563
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SCE1572_3109	2.068426516	-15.0236	0.007346	0.043852
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SCE1572_11512	-1.804788254	-10.2382	0.007552	0.044102
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SCE1572_3568	1.929455709	-14.0557	0.007592	0.044291
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SCE1572_10927	-1.838652902	-12.8324	0.007634	0.044485
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SCE1572_6706	-1.806825939	-11.1684	0.007698	0.044807
SCE1572_247	2.033887616	-14.751	0.007714	0.044876
SCE1572_3459	1.797344228	-9.58357	0.007763	0.045135
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SCE1572_2356	-1.834852826	-12.9199	0.007822	0.045309
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SCE1572_7226	-1.876285545	-13.8061	0.007858	0.045341
SCE1572_5432	1.976504026	-14.6101	0.007859	0.045341

SCE1572_7919	1.976504026	-14.6101	0.007859	0.045341
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SCE1572_2101	-1.917786532	-14.2618	0.007907	0.045547
SCE1572_2779	-1.820508951	-12.2641	0.007907	0.045547
SCE1572_8241	-1.900780107	-14.3788	0.007956	0.045804
SCE1572_11482	-1.89945471	-14.1127	0.00798	0.045916
SCE1572_862	-1.838683986	-13.0523	0.007998	0.045995
SCE1572_3368	-1.799052813	-11.3555	0.008011	0.046027
SCE1572_6633	1.818270901	-11.9007	0.008012	0.046027
SCE1572_11200	-1.856385988	-13.6196	0.008065	0.046302
SCE1572_2395	-1.881476969	-14.1405	0.008124	0.046617
SCE1572_8693	2.201064284	-15.6353	0.008149	0.046686
SCE1572_8480	-1.88895385	-14.1949	0.008156	0.046686
SCE1572_6360	-1.88895385	-14.1949	0.008156	0.046686
SCE1572_2073	2.535931435	-16.7898	0.008158	0.046686
SCE1572_3227	2.535931435	-16.7898	0.008158	0.046686
SCE1572_9247	2.202507701	-15.7866	0.008188	0.046794
SCE1572_2704	-1.827816836	-12.8684	0.008188	0.046794
SCE1572_574	-1.904366017	-14.2685	0.00819	0.046794
SCE1572_3560	1.962631852	-14.617	0.008205	0.046827
SCE1572_11394	-1.907012061	-14.5683	0.008205	0.046827
SCE1572_1729	-2.127033578	-15.8734	0.008222	0.046896
SCE1572_6904	2.472737609	-16.4995	0.008234	0.046941
SCE1572_961	-1.838982942	-13.2908	0.008277	0.047161
SCE1572_8088	2.01203046	-14.8038	0.008297	0.04724
SCE1572_8621	-1.842172129	-13.3207	0.0083	0.04724
SCE1572_9113	-1.959479481	-15.1795	0.008314	0.047292
SCE1572_3344	-1.800265901	-12.054	0.008332	0.047371
SCE1572_10239	2.001595007	-14.8871	0.00835	0.047449
SCE1572_8176	1.927885321	-14.3389	0.008358	0.047449
SCE1572_3766	-1.914266904	-14.5392	0.008359	0.047449
SCE1572_6740	-1.861902993	-13.9553	0.008384	0.047562
SCE1572_6434	1.882777162	-13.7588	0.008429	0.047795
SCE1572_2402	-2.028152336	-15.4571	0.00844	0.047812
SCE1572_11114	-1.812419144	-12.7019	0.008446	0.047812
SCE1572_4527	-1.83005184	-13.4029	0.008446	0.047812
SCE1572_9154	-1.824443095	-13.3189	0.008459	0.04782
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SCE1572_6735	-1.819434852	-13.2396	0.00847	0.04782
SCE1572_175	3.050504608	-17.5325	0.008475	0.04782
SCE1572_8115	3.013978732	-17.5508	0.008475	0.04782
SCE1572_6617	3.013978732	-17.5508	0.008475	0.04782
SCE1572_8831	-1.805184907	-12.5257	0.008489	0.047873
SCE1572_1315	-1.896575078	-14.4983	0.008509	0.047961
SCE1572_8202	1.894162579	-13.9012	0.008542	0.048123
SCE1572_1106	2.283165365	-15.9162	0.008588	0.048327
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SCE1572_7536	1.919718	-14.191	0.008674	0.048683
SCE1572_6017	-1.784436146	-11.9056	0.008709	0.048852
SCE1572_1342	-1.790422725	-11.9502	0.008723	0.048889
SCE1572_5937	2.313539014	-16.316	0.008734	0.048889
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SCE1572_2039	-2.225619797	-16.2164	0.008734	0.048889
SCE1572_2869	-2.325871271	-16.4658	0.008776	0.049096
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SCE1572_850	-1.761738551	-9.27153	0.008902	0.049564
SCE1572_10377	2.173361356	-15.8012	0.008928	0.049633
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SCE1572_4368	-1.915279677	-14.7866	0.008966	0.049812
SCE1572_11274	-1.814785083	-13.4106	0.00897	0.049812
SCE1572_844	-1.785477611	-12.3175	0.009014	0.050033
SCE1572_5902	1.806579025	-12.6626	0.009019	0.050034
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SCE1572_11412	-1.824501927	-13.4862	0.00906	0.050179
SCE1572_3247	-1.828371612	-13.7146	0.009168	0.050539
SCE1572_3861	-1.765382789	-11.2716	0.009172	0.050539
SCE1572_11293	-1.776546116	-12.2561	0.009183	0.050539
SCE1572_1394	-1.850285788	-14.1003	0.009186	0.050539
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SCE1572_8350	32.64569646	-33.6932	0.009224	0.050539
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SCE1572_1498	2.187024843	-15.7408	0.009245	0.050567
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SCE1572_8108	1.945807229	-14.7629	0.009304	0.050861
SCE1572_9900	-1.766078154	-11.7216	0.009309	0.050862
SCE1572_5484	2.466937115	-16.5286	0.009323	0.050862
SCE1572_995	2.451042537	-16.5103	0.009323	0.050862
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SCE1572_10284	-1.888094848	-14.4783	0.009385	0.051119
SCE1572_1739	2.509936226	-16.8028	0.009436	0.051238
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SCE1572_3882	2.483464015	-16.816	0.009436	0.051238
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SCE1572_6398	-1.910833772	-14.6733	0.009464	0.051338
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SCE1572_5	-1.781961147	-12.9544	0.009542	0.05168
SCE1572_18	-1.779285019	-12.5508	0.009554	0.051721
SCE1572_7580	-1.908853408	-14.8829	0.009559	0.051721
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SCE1572_565	-1.810092335	-13.8543	0.009882	0.05286

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SCE1572_1068	33.07917121	-33.4765	0.010215	0.054236
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SCE1572_5095	-1.766950904	-12.93	0.010414	0.054821
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SCE1572_7477	-1.938848148	-15.2723	0.010552	0.055494
SCE1572_5156	2.406648418	-16.5325	0.01057	0.055506
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SCE1572_1996	2.050504608	-15.5731	0.010598	0.055568
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SCE1572_10941	2.12850712	-15.8236	0.010635	0.055639
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SCE1572_366	-1.771852478	-13.5008	0.010738	0.055938
SCE1572_9943	-1.764236141	-13.0634	0.010756	0.056005
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SCE1572_9961	2.252138469	-16.3467	0.011035	0.056895
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SCE1572_9718	-1.75348608	-12.9289	0.011081	0.057049
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SCE1572_6723	-1.780437135	-13.7385	0.011186	0.05744
SCE1572_3042	2.107088136	-15.6823	0.011195	0.05744
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SCE1572_2920	1.982333105	-15.3662	0.011294	0.057862
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SCE1572_8759	-1.729221558	-12.5517	0.011383	0.058206
SCE1572_528	-1.828905251	-14.6868	0.011393	0.058229
SCE1572_9066	1.863736096	-14.3186	0.011408	0.058275
SCE1572_5917	-1.748176771	-13.2952	0.011487	0.058649
SCE1572_110	-1.71972344	-12.0473	0.011493	0.058649
SCE1572_8629	-1.882858199	-15.2178	0.011498	0.058649

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SCE1572_11449	-1.729822026	-12.4756	0.011531	0.058733
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SCE1572_3036	2.113240363	-15.8312	0.011618	0.059077
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SCE1572_8111	1.850205957	-14.3778	0.011621	0.059077
SCE1572_6232	1.885080999	-14.5303	0.011638	0.059104
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SCE1572_7674	1.92541544	-14.8471	0.011671	0.059234
SCE1572_6324	-1.760627005	-13.6807	0.011674	0.059234
SCE1572_3931	-1.70236119	-10.8949	0.011723	0.059453
SCE1572_8639	-1.779570391	-13.9476	0.011737	0.059494
SCE1572_5623	-1.7652381	-13.8319	0.011787	0.059719
SCE1572_6333	-1.845659581	-14.9145	0.01184	0.059955
SCE1572_1932	1.816039354	-14.0623	0.011845	0.059955
SCE1572_1300	1.930210374	-15.1858	0.01187	0.060051
SCE1572_2784	2.038431776	-15.4536	0.011892	0.060133
SCE1572_1005	1.805211177	-14.0321	0.011926	0.060241
SCE1572_935	-1.76423736	-13.7926	0.011928	0.060241
SCE1572_3259	-1.729581203	-12.7779	0.01193	0.060241
SCE1572_11055	-1.748901561	-13.4324	0.01198	0.060462
SCE1572_4316	1.916203516	-14.9298	0.011988	0.060474
SCE1572_5349	2.360844728	-16.5554	0.012	0.060477
SCE1572_7431	2.360844728	-16.5554	0.012	0.060477
SCE1572_2323	-1.800117768	-14.4984	0.01201	0.060497
SCE1572_5823	2.698202864	-17.1237	0.012065	0.060748
SCE1572_10242	1.9706513	-15.372	0.012093	0.060858
SCE1572_10469	-1.836208106	-14.8261	0.012129	0.06101
SCE1572_6330	-1.759088786	-13.9261	0.012155	0.061111
SCE1572_2464	1.861601932	-14.6675	0.012186	0.061225
SCE1572_2712	-1.700951989	-11.761	0.012189	0.061225
SCE1572_3767	-1.856385988	-15.0087	0.012201	0.061255
SCE1572_9963	1.745308288	-12.9706	0.012232	0.061384
SCE1572_10452	-1.764463498	-14.1071	0.012354	0.061964
SCE1572_6991	2.024032396	-15.5863	0.012365	0.061982
SCE1572_6776	1.718442136	-12.2328	0.012371	0.061982
SCE1572_6240	1.772970632	-13.5863	0.012375	0.061982
SCE1572_3150	-1.827816836	-14.7429	0.012392	0.062035
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SCE1572_5207	-1.771852478	-14.0857	0.012434	0.062041
SCE1572_5967	2.171520009	-15.972	0.012434	0.062041
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SCE1572_5755	-1.703217215	-12.1512	0.012476	0.062221
SCE1572_4624	-1.751416428	-13.6206	0.012489	0.062254

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SCE1572_10332	1.780897548	-13.7079	0.012612	0.062672
SCE1572_8322	-1.881476969	-15.1405	0.012623	0.062672
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SCE1572_2454	-1.706001173	-13.1099	0.013173	0.064422
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SCE1572_3117	-1.700735117	-13.0194	0.013205	0.06453
SCE1572_7434	-2.107924755	-16.4679	0.013209	0.06453
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SCE1572_3487	1.954644592	-15.2731	0.01328	0.064787
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SCE1572_8957	-1.724474312	-13.7805	0.013293	0.064791
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SCE1572_4317	2.698559746	-17.3411	0.013538	0.06571
SCE1572_1509	1.881528436	-14.8691	0.013548	0.065729
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SCE1572_4958	2.667175968	-17.1392	0.014225	0.067306
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SCE1572_6082	2.635467109	-17.1551	0.014225	0.067306
SCE1572_1758	1.716702413	-13.2687	0.014283	0.067485
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SCE1572_10294	-1.683101974	-12.7395	0.014296	0.067491
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SCE1572_6000	-1.728061891	-13.9106	0.014527	0.068396
SCE1572_9436	-1.642798237	-10.136	0.014549	0.068437
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SCE1572_9925	-1.665852937	-12.3711	0.01457	0.068498
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SCE1572_9330	-1.660835179	-12.0271	0.01461	0.068622
SCE1572_5706	-1.741874107	-14.0832	0.014618	0.068622
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SCE1572_11023	-1.677415847	-12.8466	0.014653	0.068743
SCE1572_515	1.898501514	-15.0211	0.014719	0.069023
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SCE1572_5842	1.855688431	-14.882	0.01498	0.069932
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SCE1572_6722	-1.752956398	-14.7248	0.01513	0.070479
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SCE1572_8623	-1.669182995	-13.5173	0.016267	0.073846
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SCE1572_4445	-1.66221344	-13.4213	0.016368	0.074174
SCE1572_7354	1.772470911	-14.3642	0.016368	0.074174
SCE1572_1021	1.766711642	-14.3671	0.016368	0.074174
SCE1572_2500	2.013978732	-16.0508	0.016397	0.07424
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SCE1572_2513	-1.694922565	-14.0723	0.016601	0.075133
SCE1572_2912	1.633074131	-12.1414	0.016634	0.075252
SCE1572_6467	2.01808313	-15.8788	0.016656	0.075252
SCE1572_6425	2.01808313	-15.8788	0.016656	0.075252
SCE1572_2476	2.001595007	-15.8871	0.016656	0.075252
SCE1572_1390	-1.666908189	-13.4734	0.016664	0.075254
SCE1572_10012	-1.686460986	-13.9468	0.016701	0.075357
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SCE1572_2148	1.776067312	-14.7103	0.016725	0.07542
SCE1572_912	-1.620927826	-11.6858	0.01673	0.07542
SCE1572_2261	-1.686460986	-13.901	0.016736	0.07542
SCE1572_7758	3.313539014	-18.401	0.016783	0.075565
SCE1572_11541	3.313539014	-18.401	0.016783	0.075565
SCE1572_6209	2.59378743	-17.1663	0.01681	0.075656
SCE1572_6987	1.991610919	-15.74	0.01685	0.075803
SCE1572_670	-1.676938212	-13.6578	0.016909	0.076037
SCE1572_9538	1.927356377	-15.6347	0.016929	0.076062
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SCE1572_7549	1.754111605	-14.3734	0.016979	0.076255
SCE1572_9353	-1.652513654	-13.4917	0.017006	0.076343
SCE1572_1679	-1.648277792	-13.439	0.017034	0.076435
SCE1572_9334	-1.695563193	-14.1776	0.017068	0.076553
SCE1572_7647	1.734201062	-14.1907	0.017083	0.07659
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SCE1572_3276	-1.77589607	-15.015	0.017346	0.077309
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SCE1572_762	1.649504942	-13.0042	0.017775	0.078717
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SCE1572_10180	-1.691326742	-14.2741	0.018266	0.080354
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SCE1572_3832	-1.629877458	-14.2289	0.020948	0.087886
SCE1572_3412	-1.734395463	-15.2525	0.020973	0.087958
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SCE1572_5358	-1.586120013	-13.2142	0.02114	0.088504
SCE1572_5535	1.656683594	-14.0595	0.021162	0.088504
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SCE1572_9496	-1.627567297	-13.8716	0.02138	0.089156
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SCE1572_6701	1.655725948	-14.1855	0.021471	0.08944
SCE1572_9501	-1.551531406	-11.4607	0.021505	0.089544
SCE1572_7426	-1.686460986	-14.901	0.021525	0.089549
SCE1572_8612	1.869057736	-15.6638	0.021539	0.089549
SCE1572_2142	1.869057736	-15.6638	0.021539	0.089549
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SCE1572_863	-1.612460405	-13.8087	0.021781	0.090014
SCE1572_7267	1.626277937	-13.8523	0.021842	0.090014
SCE1572_9349	-1.57766996	-13.3309	0.021842	0.090014
SCE1572_8597	1.607484696	-13.3714	0.021887	0.090014
SCE1572_4954	32.27181629	-33.8801	0.0219	0.090014
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SCE1572_10624	-1.616251984	-13.8772	0.021968	0.090166
SCE1572_2010	1.916203516	-15.9298	0.021972	0.090166
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SCE1572_2287	-1.721226404	-15.111	0.021989	0.090166
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SCE1572_686	1.703773122	-14.7465	0.022078	0.090463
SCE1572_7035	1.695409649	-14.7506	0.022078	0.090463
SCE1572_1061	-1.593351582	-13.7252	0.022095	0.090498
SCE1572_6108	1.681048143	-14.4624	0.022199	0.090537
SCE1572_7938	-1.643392264	-14.42	0.022199	0.090537
SCE1572_6481	3.252138469	-18.4317	0.022208	0.090537
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SCE1572_714	3.252138469	-18.4317	0.022208	0.090537
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SCE1572_11171	3.252138469	-18.4317	0.022208	0.090537
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SCE1572_8807	3.188008132	-18.4638	0.022208	0.090537
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SCE1572_7329	3.188008132	-18.4638	0.022208	0.090537
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SCE1572_2259	1.700562137	-14.5071	0.022298	0.090807
SCE1572_2157	-1.631599051	-14.4473	0.022298	0.090807
SCE1572_1188	1.918401072	-16.0986	0.022309	0.090807
SCE1572_2786	-1.811991868	-15.9638	0.022309	0.090807
SCE1572_8308	-1.536902252	-11.1345	0.02232	0.090818
SCE1572_5225	-1.584581372	-13.4925	0.022343	0.090877
SCE1572_273	-1.543122754	-11.8607	0.022352	0.090878
SCE1572_6115	1.816039354	-15.3424	0.022418	0.091111
SCE1572_57	1.719531373	-14.8761	0.022434	0.091141
SCE1572_3038	1.650897149	-14.2781	0.022451	0.091175

SCE1572_8217	1.635467109	-14.0701	0.022481	0.091236
SCE1572_10878	2.029746048	-16.2355	0.022492	0.091236
SCE1572_8929	-1.856385988	-16.0791	0.022492	0.091236
SCE1572_8566	-1.651695568	-14.5261	0.022509	0.09127
SCE1572_468	-1.679081456	-14.8749	0.022566	0.091465
SCE1572_632	-1.549826294	-12.5943	0.022598	0.091559
SCE1572_7958	-1.557727672	-12.6078	0.022631	0.091658
SCE1572_11464	1.558272603	-12.3838	0.022728	0.092013
SCE1572_8228	1.79632112	-15.4592	0.022756	0.092087
SCE1572_3898	-1.62430451	-14.142	0.022835	0.092087
SCE1572_10203	-1.662633614	-14.9572	0.022854	0.092087
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SCE1572_9812	1.564082475	-12.8328	0.022875	0.092087
SCE1572_5461	2.050504608	-16.4476	0.022886	0.092087
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SCE1572_6783	-1.971863205	-16.3433	0.022886	0.092087
SCE1572_6006	-1.884400364	-16.2995	0.022886	0.092087
SCE1572_10985	-1.523810649	-10.0204	0.022904	0.092122
SCE1572_4054	-1.614311201	-14.1645	0.022932	0.092176
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SCE1572_2184	1.614405493	-13.727	0.023061	0.092579
SCE1572_4778	-1.743491931	-15.5033	0.023145	0.092879
SCE1572_9355	-1.615869019	-14.0455	0.023173	0.092958
SCE1572_2711	-1.561765239	-13.2537	0.023195	0.093012
SCE1572_9655	2.923564672	-18.0207	0.023239	0.093151
SCE1572_1153	-1.61207879	-14.071	0.023271	0.093245
SCE1572_108	-1.537793605	-12.0685	0.02331	0.093362
SCE1572_6397	-1.627567297	-14.2866	0.02336	0.093502
SCE1572_5419	-1.770994497	-15.5857	0.023362	0.093502
SCE1572_7249	1.582474021	-13.3358	0.023439	0.093528
SCE1572_5684	-1.61127349	-14.5236	0.023469	0.093528
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SCE1572_1858	2.252138469	-16.9317	0.023483	0.093528
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SCE1572_2829	2.220429609	-16.9476	0.023483	0.093528
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SCE1572_4026	-1.539912323	-12.5149	0.023533	0.093528
SCE1572_7101	-1.523630207	-11.1348	0.023553	0.093528
SCE1572_4232	1.898501514	-15.7866	0.023597	0.093528
SCE1572_218	-1.749470784	-15.6471	0.023597	0.093528
SCE1572_826	1.701269167	-14.8852	0.023601	0.093528
SCE1572_1859	2.728576513	-17.6935	0.02363	0.093528
SCE1572_7350	2.728576513	-17.6935	0.02363	0.093528
SCE1572_5894	2.728576513	-17.6935	0.02363	0.093528
SCE1572_6647	2.728576513	-17.6935	0.02363	0.093528
SCE1572_6472	2.728576513	-17.6935	0.02363	0.093528
SCE1572_4039	2.682772823	-17.7164	0.02363	0.093528
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SCE1572_10314	2.682772823	-17.7164	0.02363	0.093528
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SCE1572_3796	2.501166017	-17.2222	0.023635	0.093528
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SCE1572_3985	-1.596150215	-13.8446	0.023648	0.093544
SCE1572_3914	1.752423255	-15.2747	0.023752	0.093794
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SCE1572_7669	1.740549155	-15.2806	0.023752	0.093794
SCE1572_11061	-1.511552686	-8.95573	0.023752	0.093794
SCE1572_3920	1.659313851	-14.6432	0.023758	0.093794
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SCE1572_6573	1.718522848	-15.0286	0.024152	0.094938
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SCE1572_3452	1.679188486	-14.5177	0.024154	0.094938
SCE1572_10052	-1.565870846	-13.8183	0.024182	0.095013
SCE1572_6275	-1.534959787	-12.6578	0.02421	0.095051
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SCE1572_10954	1.749638128	-15.0955	0.02436	0.095604
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SCE1572_1661	-1.575039704	-13.7473	0.024399	0.09568
SCE1572_11323	-1.544441981	-13.1647	0.024409	0.09568
SCE1572_1312	-1.517647499	-11.7695	0.024416	0.09568
SCE1572_2930	1.783024297	-15.4658	0.024459	0.095777
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SCE1572_4836	-1.643392264	-14.8351	0.024833	0.096919
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SCE1572_8601	-1.654752127	-14.9783	0.02553	0.098822
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SCE1572_5551	1.766711642	-15.3671	0.025639	0.099099
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SCE1572_1853	1.693811095	-14.8186	0.025646	0.099099
SCE1572_5598	-1.556514814	-13.6561	0.025672	0.099161
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SCE1572_4287	1.739145755	-15.1007	0.025793	0.099484
SCE1572_3114	1.607270217	-14.2999	0.025818	0.099543
SCE1572_662	-1.488573638	-8.82586	0.025855	0.099651
SCE1572_10275	-1.637072959	-14.8102	0.025883	0.099722
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SCE1572_11529	1.685507791	-15.1276	0.026075	0.100204
SCE1572_1516	-1.504622663	-12.159	0.026185	0.100591
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SCE1572_10321	-1.633993566	-15.1199	0.026378	0.101158
SCE1572_4670	1.70946769	-14.9551	0.026402	0.101158
SCE1572_9046	1.511658391	-12.2039	0.02642	0.101158
SCE1572_6958	2.16153592	-16.6551	0.026429	0.101158
SCE1572_2965	2.134568873	-16.6686	0.026429	0.101158
SCE1572_7137	2.134568873	-16.6686	0.026429	0.101158
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SCE1572_1218	1.646962747	-14.5904	0.026619	0.101589
SCE1572_8182	1.816039354	-15.5648	0.026673	0.101722
SCE1572_1337	-1.517734535	-13.0157	0.026673	0.101722
SCE1572_435	-1.530943409	-13.4657	0.026691	0.101754
SCE1572_6122	-1.509995835	-12.7413	0.026824	0.102224
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SCE1572_6765	1.687934528	-15.0439	0.026992	0.102787
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SCE1572_10032	-1.578852012	-14.2178	0.027271	0.103695
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SCE1572_10540	1.516898243	-12.5311	0.027289	0.103695
SCE1572_10347	-1.531067304	-13.4139	0.027307	0.103724
SCE1572_5613	1.647958053	-14.7102	0.027374	0.103926
SCE1572_1777	1.605305138	-14.3971	0.02738	0.103926
SCE1572_443	1.878323632	-16.1186	0.027504	0.104032
SCE1572_1489	1.878323632	-16.1186	0.027504	0.104032
SCE1572_7683	1.85785953	-16.1288	0.027504	0.104032
SCE1572_2573	1.85785953	-16.1288	0.027504	0.104032
SCE1572_9633	1.664036261	-14.9038	0.02751	0.104032
SCE1572_10307	2.188008132	-16.9638	0.027518	0.104032
SCE1572_8299	2.188008132	-16.9638	0.027518	0.104032
SCE1572_10716	2.188008132	-16.9638	0.027518	0.104032
SCE1572_6416	2.188008132	-16.9638	0.027518	0.104032
SCE1572_1863	1.79270685	-15.702	0.027526	0.104032
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SCE1572_161	1.79270685	-15.702	0.027526	0.104032
SCE1572_1674	-1.504084244	-12.6703	0.027565	0.104142
SCE1572_6182	1.674536673	-15.133	0.027667	0.104489
SCE1572_9681	-1.485789768	-11.8998	0.027679	0.104495
SCE1572_11110	-1.53642208	-13.6852	0.027698	0.104504
SCE1572_1768	1.594559165	-14.3063	0.027701	0.104504
SCE1572_2565	-1.489603657	-12.1623	0.027742	0.104621
SCE1572_9601	-1.481861868	-11.4745	0.027756	0.104635
SCE1572_944	1.638673399	-14.6021	0.027768	0.104643
SCE1572_11189	1.500160304	-12.1784	0.027797	0.104681
SCE1572_2602	1.673571714	-14.9595	0.027832	0.104681
SCE1572_4177	1.673571714	-14.9595	0.027832	0.104681
SCE1572_11488	1.673571714	-14.9595	0.027832	0.104681
SCE1572_3596	1.673571714	-14.9595	0.027832	0.104681
SCE1572_5534	1.535931435	-13.4318	0.027855	0.104681
SCE1572_4022	-1.568405225	-14.4157	0.027857	0.104681
SCE1572_11468	-1.568405225	-14.4157	0.027857	0.104681
SCE1572_3241	1.635467109	-14.7806	0.027952	0.104978
SCE1572_6061	-1.473346379	-10.509	0.027956	0.104978
SCE1572_2009	1.866080037	-15.8028	0.028016	0.10509
SCE1572_1761	1.866080037	-15.8028	0.028016	0.10509
SCE1572_9626	1.796780089	-15.7837	0.028016	0.10509
SCE1572_9149	-1.511737816	-13.2514	0.02806	0.105156
SCE1572_5614	1.96561571	-16.2676	0.028084	0.105156
SCE1572_5660	1.964741085	-16.2681	0.028084	0.105156
SCE1572_3535	1.943589404	-16.2786	0.028084	0.105156
SCE1572_6952	1.943589404	-16.2786	0.028084	0.105156
SCE1572_2070	2.465542107	-17.24	0.028123	0.105192
SCE1572_9199	2.429016231	-17.2583	0.028123	0.105192
SCE1572_2545	2.429016231	-17.2583	0.028123	0.105192
SCE1572_3	-1.481346556	-11.8916	0.028179	0.105363
SCE1572_8190	1.553004948	-13.6963	0.028204	0.105421
SCE1572_3426	1.598941233	-14.2583	0.028216	0.105425
SCE1572_3196	-1.503916498	-13.0615	0.028238	0.105473
SCE1572_5104	-1.542725509	-14.1149	0.028253	0.105489
SCE1572_825	1.658187185	-14.8364	0.028268	0.10551
SCE1572_398	1.728576513	-15.493	0.02829	0.105526
SCE1572_7941	-1.508752179	-13.3364	0.028293	0.105526
SCE1572_8302	-1.50628722	-13.0762	0.028347	0.105658
SCE1572_5716	-1.468576777	-10.2308	0.028348	0.105658
SCE1572_8001	1.499861162	-12.6281	0.028415	0.105868
SCE1572_10072	-1.473731662	-11.4682	0.028428	0.105881
SCE1572_331	-1.509220601	-13.14	0.028453	0.105935
SCE1572_8011	-1.548533078	-14.1455	0.028474	0.105975
SCE1572_7831	-1.529221245	-14.041	0.028492	0.106005
SCE1572_1198	1.549027093	-13.7287	0.028536	0.106132
SCE1572_9854	1.523192323	-13.2738	0.028566	0.106206
SCE1572_9064	1.614708548	-14.4431	0.028686	0.106561

SCE1572_6640	1.581735125	-14.3127	0.028697	0.106561
SCE1572_1907	-1.54061012	-14.2735	0.028697	0.106561
SCE1572_10182	-1.508462684	-13.4457	0.028702	0.106561
SCE1572_4856	1.787470202	-15.5791	0.028778	0.106804
SCE1572_4134	1.554977191	-13.854	0.028899	0.107219
SCE1572_5217	1.587978183	-14.1345	0.028933	0.107289
SCE1572_8045	1.603045631	-14.3494	0.028955	0.107289
SCE1572_10108	-1.572289966	-14.4345	0.028963	0.107289
SCE1572_9987	1.616101784	-14.6059	0.028969	0.107289
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SCE1572_2689	-1.530341784	-13.6937	0.029055	0.107566
SCE1572_7581	-1.456792893	-9.53943	0.029207	0.108091
SCE1572_6544	-1.468569957	-11.4656	0.029265	0.108138
SCE1572_3387	2.635467109	-17.74	0.029323	0.108138
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SCE1572_5118	-1.581763608	-14.8945	0.029345	0.108138
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SCE1572_1649	1.672303394	-15.1573	0.029363	0.108138
SCE1572_6437	1.663481485	-15.1386	0.029363	0.108138
SCE1572_4719	1.652340927	-15.1441	0.029363	0.108138
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SCE1572_4265	1.976504026	-16.4846	0.029464	0.10828
SCE1572_1430	1.950968934	-16.4973	0.029464	0.10828
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SCE1572_5862	1.568796069	-14.3192	0.029732	0.108923
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SCE1572_8739	1.682772823	-15.2164	0.029821	0.109059
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SCE1572_7009	1.563517267	-14.0666	0.030027	0.10951
SCE1572_8971	-1.48501896	-13.0321	0.030152	0.109928
SCE1572_3688	1.55691646	-13.9939	0.030184	0.110004
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SCE1572_5800	-1.486929523	-13.0939	0.030339	0.110457
SCE1572_9178	-1.490989864	-13.3939	0.030437	0.110766
SCE1572_816	1.588398855	-14.5087	0.030445	0.110766
SCE1572_6684	-1.537498347	-14.2567	0.030502	0.110933
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SCE1572_2146	1.81837124	-16.1486	0.030577	0.111089
SCE1572_4747	1.57795465	-14.4108	0.030637	0.11127
SCE1572_7252	1.696396107	-15.1221	0.030663	0.111328
SCE1572_470	-1.480140971	-12.8612	0.030803	0.111797
SCE1572_6976	1.66055809	-14.9796	0.030946	0.112238
SCE1572_7629	-1.587450981	-14.9208	0.030946	0.112238
SCE1572_8448	1.547749223	-14.2395	0.030958	0.112241
SCE1572_8363	1.595154845	-14.6752	0.030971	0.112251
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SCE1572_728	-1.552836422	-14.5304	0.031157	0.112732
SCE1572_10442	1.641113672	-15.1498	0.031171	0.112744
SCE1572_421	-1.856385988	-16.5937	0.031233	0.112928
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SCE1572_7939	-1.756850314	-16.1288	0.031424	0.113349
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SCE1572_356	2.188008132	-17.3788	0.034945	0.120128
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SCE1572_972	-1.440481745	-13.0776	0.03504	0.120366
SCE1572_2392	-1.441348488	-12.7505	0.035041	0.120366
SCE1572_5698	-1.566256472	-14.9857	0.035082	0.120467
SCE1572_3476	-1.45697914	-13.3433	0.035099	0.120486
SCE1572_4549	1.606897956	-15.1669	0.035155	0.120547
SCE1572_7527	1.606897956	-15.1669	0.035155	0.120547
SCE1572_8041	1.898501514	-16.3012	0.035193	0.120547
SCE1572_3966	-1.704382894	-16.1551	0.035193	0.120547
SCE1572_5004	-1.704382894	-16.1551	0.035193	0.120547
SCE1572_5457	1.64186488	-15.33	0.035227	0.120547

SCE1572_5455	1.64186488	-15.33	0.035227	0.120547
SCE1572_3490	-1.570983769	-15.2583	0.035227	0.120547
SCE1572_10266	-1.465596035	-13.7138	0.035235	0.120547
SCE1572_969	-1.520451035	-14.4605	0.035245	0.120547
SCE1572_2220	-1.499692475	-14.4501	0.035245	0.120547
SCE1572_4072	-1.431028303	-12.5638	0.035254	0.120547
SCE1572_6888	1.787470202	-15.9941	0.035325	0.120587
SCE1572_6015	1.787470202	-15.9941	0.035325	0.120587
SCE1572_5656	1.787470202	-15.9941	0.035325	0.120587
SCE1572_9629	1.535931435	-14.5894	0.035333	0.120587
SCE1572_595	1.728576513	-15.7341	0.035335	0.120587
SCE1572_479	1.71208839	-15.7423	0.035335	0.120587
SCE1572_9561	1.468261608	-13.5957	0.03535	0.120602
SCE1572_9358	-1.48501896	-14.0321	0.035592	0.121388
SCE1572_9707	1.603045631	-15.0863	0.035778	0.121921
SCE1572_7073	1.603045631	-15.0863	0.035778	0.121921
SCE1572_1931	1.48790992	-13.7289	0.035783	0.121921
SCE1572_3283	1.529476413	-14.293	0.03589	0.122243
SCE1572_8288	-1.551531406	-15.1611	0.035919	0.122303
SCE1572_2161	1.443649501	-12.9609	0.035932	0.122309
SCE1572_7916	-1.411904711	-11.8419	0.035948	0.122324
SCE1572_8193	1.535931435	-14.3829	0.036009	0.122461
SCE1572_7702	1.571336771	-14.7485	0.036012	0.122461
SCE1572_10067	-1.403563826	-10.6908	0.036034	0.122496
SCE1572_9651	1.662688577	-15.4191	0.036071	0.122504
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SCE1572_7147	-1.48441721	-14.1276	0.036096	0.122548
SCE1572_2803	-1.628975492	-15.5147	0.036232	0.12297
SCE1572_2479	-1.78599666	-16.6288	0.036253	0.123002
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SCE1572_1384	1.463286133	-13.3261	0.036368	0.123235
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SCE1572_7791	2.586557508	-17.7645	0.036521	0.123235
SCE1572_2193	2.535931435	-17.7898	0.036521	0.123235
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SCE1572_9455	-1.578084825	-15.2922	0.03766	0.126269
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SCE1572_1944	1.592074513	-15.0918	0.037878	0.126758
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SCE1572_4314	1.639942177	-15.5274	0.038021	0.126935
SCE1572_1614	-1.429571321	-13.2569	0.038021	0.126935
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SCE1572_8076	1.639550596	-15.6822	0.04042	0.131743
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SCE1572_9734	-1.557727672	-15.1928	0.040716	0.132545
SCE1572_3407	-1.383785853	-12.3109	0.040935	0.133216
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SCE1572_1002	2.143614012	-17.401	0.042606	0.136834
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SCE1572_11233	-1.404397352	-13.4471	0.042658	0.136877
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SCE1572_8367	1.563152904	-15.3693	0.043079	0.137891
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SCE1572_834	-1.479531682	-14.7315	0.043362	0.138476
SCE1572_7548	1.586557508	-15.2645	0.043367	0.138476
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SCE1572_4334	1.84405373	-16.5508	0.043422	0.138487
SCE1572_8120	1.84405373	-16.5508	0.043422	0.138487
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SCE1572_7700	1.710429166	-15.8806	0.043437	0.138487
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SCE1572_10635	-1.378338691	-13.1322	0.043745	0.139344
SCE1572_2800	1.426547975	-13.8526	0.043763	0.139359
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SCE1572_4552	1.535931435	-15.4825	0.054921	0.162569

SCE1572_5943	1.535931435	-15.4825	0.054921	0.162569
SCE1572_1124	1.535931435	-15.4825	0.054921	0.162569
SCE1572_4199	-1.493815908	-15.4124	0.054921	0.162569
SCE1572_4795	-1.44475509	-15.0522	0.054931	0.162569
SCE1572_526	-1.337311423	-13.9191	0.054981	0.162664
SCE1572_1731	1.321902487	-12.9706	0.054995	0.162664
SCE1572_6390	-1.344672469	-14.0719	0.055087	0.162893
SCE1572_53	1.344376418	-13.6307	0.055127	0.162963
SCE1572_2017	1.389306521	-14.2757	0.055212	0.163043
SCE1572_2939	-1.61934679	-16.0601	0.055216	0.163043
SCE1572_1807	-1.555216453	-16.028	0.055216	0.163043
SCE1572_3382	-1.555216453	-16.028	0.055216	0.163043
SCE1572_5383	1.439069896	-14.8788	0.055282	0.163192
SCE1572_198	-1.328756662	-13.4554	0.055315	0.163243
SCE1572_7749	1.519989891	-15.5973	0.055487	0.163676
SCE1572_4007	-1.308704503	-13.0974	0.055492	0.163676
SCE1572_8583	1.284768775	-11.2505	0.055521	0.163713
SCE1572_7311	1.322101027	-13.0044	0.055599	0.163898
SCE1572_402	1.754111605	-16.3734	0.055867	0.164467
SCE1572_4731	1.728576513	-16.3861	0.055867	0.164467
SCE1572_11237	1.728576513	-16.3861	0.055867	0.164467
SCE1572_8113	1.728576513	-16.3861	0.055867	0.164467
SCE1572_9293	-1.378338691	-14.3546	0.05587	0.164467
SCE1572_2225	1.496760838	-15.3094	0.055959	0.164544
SCE1572_10548	1.496760838	-15.3094	0.055959	0.164544
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SCE1572_10962	1.419738418	-14.7629	0.055959	0.164544
SCE1572_984	-1.330924499	-14.0939	0.05608	0.164855
SCE1572_7507	1.568886482	-15.7498	0.05613	0.164956
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SCE1572_8912	31.85677879	-34.0877	0.056522	0.165099
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SCE1572_11301	-1.464068565	-15.7898	0.056867	0.165732
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SCE1572_3557	1.433833247	-14.8173	0.057537	0.166307
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SCE1572_3222	-1.303132347	-14.1858	0.063353	0.176562
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SCE1572_7652	1.313539014	-14.0087	0.063611	0.177094
SCE1572_130	1.456496968	-15.3295	0.063661	0.17714
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SCE1572_1899	1.603045631	-16.0863	0.063789	0.177397
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SCE1572_2627	1.344235811	-14.4315	0.063826	0.177397
SCE1572_1131	2.001595007	-17.472	0.063872	0.177397
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SCE1572_7004	2.001595007	-17.472	0.063872	0.177397
SCE1572_11476	-1.971863205	-17.3433	0.063872	0.177397
SCE1572_346	1.335234085	-14.3458	0.063916	0.177473
SCE1572_5533	1.280872825	-13.3513	0.064199	0.178211
SCE1572_10089	-1.341812815	-14.7514	0.064349	0.178402

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SCE1572_2503	1.35006489	-14.6823	0.064443	0.178526
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SCE1572_2713	-1.332824032	-14.5543	0.064521	0.178636
SCE1572_7729	-1.312065472	-14.5439	0.064521	0.178636
SCE1572_10648	-1.325871271	-14.3809	0.064641	0.178693
SCE1572_4467	1.728576513	-16.6085	0.064661	0.178693
SCE1572_1814	1.728576513	-16.6085	0.064661	0.178693
SCE1572_8504	1.698202864	-16.6237	0.064661	0.178693
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SCE1572_9939	1.698202864	-16.6237	0.064661	0.178693
SCE1572_6889	1.698202864	-16.6237	0.064661	0.178693
SCE1572_5752	-1.236305444	-11.7482	0.064689	0.178702
SCE1572_5941	1.487568413	-15.6136	0.064707	0.178702
SCE1572_7727	-1.264437057	-13.0035	0.064715	0.178702
SCE1572_4299	1.26140139	-12.6722	0.064808	0.178911
SCE1572_8855	-1.284844003	-13.9453	0.064841	0.178956
SCE1572_6813	1.282607154	-13.6351	0.064935	0.179086
SCE1572_3774	1.451042537	-15.4254	0.06494	0.179086
SCE1572_10554	1.436395761	-15.4327	0.06494	0.179086
SCE1572_6452	1.284536988	-13.328	0.064993	0.179157
SCE1572_9675	-1.263011247	-13.2714	0.064999	0.179157
SCE1572_9640	-1.226143738	-9.70002	0.065043	0.17923
SCE1572_808	1.422473385	-15.2591	0.065096	0.179236
SCE1572_1227	1.409297996	-15.2657	0.065096	0.179236
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SCE1572_332	-1.358886328	-15.0648	0.065204	0.179487
SCE1572_1104	-1.345424068	-14.8236	0.065333	0.179795
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SCE1572_643	-1.249728416	-12.6382	0.065559	0.180008
SCE1572_6657	-1.236234059	-12.0141	0.065576	0.180008
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SCE1572_1202	1.586557508	-16.2645	0.065616	0.180008
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SCE1572_10647	-1.451995733	-15.6963	0.066313	0.181766
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SCE1572_4469	1.278773596	-13.4411	0.066681	0.182454
SCE1572_4745	-1.288497	-14.2926	0.066976	0.183212
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SCE1572_3947	-1.207238968	-8.89943	0.068851	0.187029
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SCE1572_887	-1.224426008	-12.4316	0.069738	0.189145
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SCE1572_5756	1.45440155	-15.6301	0.069913	0.189496
SCE1572_5319	1.391541526	-14.9697	0.069957	0.189496
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SCE1572_11028	2.728576513	-18.6935	0.072973	0.194116
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SCE1572_4383	1.287543805	-14.6067	0.076097	0.199798
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SCE1572_5042	-1.241049838	-14.1237	0.077086	0.201439
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SCE1572_1928	-1.211302495	-13.1088	0.077516	0.202396
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SCE1572_2544	1.231076853	-13.5353	0.077591	0.202493

SCE1572_11469	-1.297895698	-14.9254	0.077612	0.202493
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SCE1572_5608	1.288448033	-14.5556	0.077696	0.202592
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SCE1572_3288	-1.197041291	-13.0941	0.077814	0.202787
SCE1572_6778	1.21535862	-13.2022	0.07785	0.20283
SCE1572_809	-1.180820938	-11.8933	0.078	0.203127
SCE1572_9630	1.535931435	-16.1199	0.078056	0.203127
SCE1572_4135	1.535931435	-16.1199	0.078056	0.203127
SCE1572_6840	-1.441348488	-16.0236	0.078056	0.203127
SCE1572_6057	-1.231895123	-13.9188	0.078178	0.203127
SCE1572_11282	-1.231895123	-13.9188	0.078178	0.203127
SCE1572_10503	-1.551531406	-16.7461	0.078188	0.203127
SCE1572_5621	1.252075742	-14.1098	0.078261	0.203127
SCE1572_4811	-1.255656171	-14.1778	0.078307	0.203127
SCE1572_1041	1.228291727	-13.5129	0.078373	0.203127
SCE1572_2806	1.298426961	-14.5293	0.07846	0.203127
SCE1572_2733	-1.361621296	-15.6942	0.078469	0.203127
SCE1572_1085	1.304605889	-14.6506	0.078515	0.203127
SCE1572_9576	1.950968934	-17.4973	0.078524	0.203127
SCE1572_6859	1.950968934	-17.4973	0.078524	0.203127
SCE1572_2449	1.950968934	-17.4973	0.078524	0.203127
SCE1572_2255	1.950968934	-17.4973	0.078524	0.203127
SCE1572_10726	1.950968934	-17.4973	0.078524	0.203127
SCE1572_4361	1.950968934	-17.4973	0.078524	0.203127
SCE1572_1332	1.950968934	-17.4973	0.078524	0.203127
SCE1572_2896	1.950968934	-17.4973	0.078524	0.203127
SCE1572_11452	1.898501514	-17.5236	0.078524	0.203127
SCE1572_381	1.898501514	-17.5236	0.078524	0.203127
SCE1572_9136	1.898501514	-17.5236	0.078524	0.203127
SCE1572_7811	1.898501514	-17.5236	0.078524	0.203127
SCE1572_245	1.890464195	-17.5276	0.078524	0.203127
SCE1572_4752	-1.856385988	-17.401	0.078524	0.203127
SCE1572_6933	-1.856385988	-17.401	0.078524	0.203127
SCE1572_9400	-1.686460986	-17.316	0.078524	0.203127
SCE1572_7063	1.236060261	-13.7673	0.078566	0.203148
SCE1572_7429	1.429016231	-15.5359	0.078625	0.203148
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SCE1572_2922	1.413074687	-15.5439	0.078625	0.203148
SCE1572_3970	-1.300569833	-15.0642	0.078655	0.203148
SCE1572_9979	1.355359189	-15.2926	0.078667	0.203148
SCE1572_5436	1.355359189	-15.2926	0.078667	0.203148
SCE1572_374	1.269144894	-14.3788	0.079097	0.204208
SCE1572_2333	-1.204309291	-13.4603	0.079132	0.204248
SCE1572_4722	-1.220349302	-13.8735	0.079187	0.20434
SCE1572_11351	1.190646404	-12.2433	0.079229	0.204397
SCE1572_4592	-1.250664927	-14.5746	0.07932	0.204583

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SCE1572_9674	-1.204752447	-13.4507	0.079504	0.204956
SCE1572_9119	1.621661309	-16.4396	0.079722	0.205368
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SCE1572_3475	-1.303132347	-15.1858	0.079888	0.205694
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SCE1572_1447	1.376274769	-15.4627	0.080032	0.205876
SCE1572_1769	1.451042537	-16.0103	0.080111	0.205876
SCE1572_7352	1.451042537	-16.0103	0.080111	0.205876
SCE1572_2548	1.451042537	-16.0103	0.080111	0.205876
SCE1572_870	-1.378338691	-15.9396	0.080111	0.205876
SCE1572_5381	1.465542107	-15.74	0.080134	0.205876
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SCE1572_4565	-1.204309291	-13.6827	0.080334	0.206286
SCE1572_10391	1.32395563	-14.8722	0.08052	0.206665
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SCE1572_537	-1.206468045	-13.4131	0.080587	0.206784
SCE1572_10721	1.170984984	-11.5181	0.080606	0.206784
SCE1572_5467	1.353067378	-15.2113	0.081052	0.207878
SCE1572_10571	-1.168885325	-11.8349	0.081338	0.208561
SCE1572_5548	1.293361132	-14.8261	0.08142	0.208581
SCE1572_6875	1.293361132	-14.8261	0.08142	0.208581
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SCE1572_10942	1.193825458	-12.969	0.081665	0.208581
SCE1572_4047	1.403176226	-15.6557	0.081697	0.208581
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SCE1572_1138	1.764200423	-16.8537	0.081703	0.208581
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SCE1572_722	1.761382658	-16.8552	0.081703	0.208581
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SCE1572_10495	-1.203251984	-13.7052	0.081779	0.208724
SCE1572_8325	-1.188961327	-13.2429	0.081951	0.209111
SCE1572_485	1.313539014	-15.1531	0.082164	0.209518
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SCE1572_1515	-1.464068565	-16.2048	0.08217	0.209518
SCE1572_4801	-1.271423487	-14.7628	0.082288	0.209615

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SCE1572_4056	-1.247964514	-14.751	0.082288	0.209615
SCE1572_5290	1.281117536	-14.5103	0.082308	0.209615
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SCE1572_2490	1.302567896	-14.9471	0.08272	0.210615
SCE1572_8385	1.214216052	-13.9265	0.082972	0.211176
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SCE1572_10562	1.196285234	-13.1559	0.08325	0.21176
SCE1572_7365	-1.167993897	-12.4323	0.083305	0.211846
SCE1572_948	1.275266715	-14.5959	0.083434	0.212124
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SCE1572_5446	1.439069896	-15.8788	0.083771	0.212716
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SCE1572_5485	1.168475	-12.0727	0.083795	0.212716
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SCE1572_10156	-1.304590351	-15.2506	0.083829	0.212716
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SCE1572_2597	-2.690535248	-18.8399	0.084472	0.213817
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SCE1572_7088	1.396955022	-15.5519	0.084547	0.213817
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SCE1572_8857	-1.245888395	-14.8734	0.087908	0.21944
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SCE1572_9958	1.816039354	-17.1498	0.088001	0.21944
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SCE1572_6048	-1.149551484	-12.2706	0.088201	0.219592
SCE1572_4164	1.357933133	-15.3788	0.088244	0.219592
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SCE1572_7732	-1.356312385	-15.6067	0.088356	0.219648
SCE1572_3068	-1.218312151	-14.345	0.088658	0.220346
SCE1572_3341	-1.139395093	-11.7206	0.088722	0.220432
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SCE1572_4502	1.289291467	-15.0912	0.089023	0.220835
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SCE1572_10816	1.593646933	-16.4536	0.089896	0.22206
SCE1572_3919	1.593646933	-16.4536	0.089896	0.22206
SCE1572_5669	1.593646933	-16.4536	0.089896	0.22206
SCE1572_2466	1.565077781	-16.4679	0.089896	0.22206
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SCE1572_9772	-1.37451698	-15.8871	0.089974	0.222121
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SCE1572_10021	1.226293954	-14.3075	0.090328	0.222764
SCE1572_2667	1.170646971	-13.2245	0.09033	0.222764
SCE1572_11543	1.223987429	-14.2759	0.090855	0.223402
SCE1572_3170	-1.205080992	-14.2509	0.090855	0.223402
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SCE1572_10596	1.38065321	-15.5601	0.090939	0.223402
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SCE1572_2894	1.207548318	-14.1321	0.090956	0.223402
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SCE1572_11294	2.252138469	-17.9317	0.091098	0.223402
SCE1572_2827	2.252138469	-17.9317	0.091098	0.223402
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SCE1572_8404	2.188008132	-17.9638	0.091098	0.223402
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SCE1572_1151	-1.78599666	-17.6288	0.091098	0.223402
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SCE1572_10186	-1.199273701	-14.372	0.091293	0.223723
SCE1572_6222	1.313539014	-15.2311	0.091386	0.223898
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SCE1572_7824	1.398427911	-15.8991	0.091543	0.224074
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SCE1572_445	1.269144894	-14.9638	0.091614	0.224145
SCE1572_4252	1.483464015	-16.316	0.092047	0.225053
SCE1572_6728	-1.40266802	-16.2355	0.092047	0.225053
SCE1572_5318	1.329480558	-15.4861	0.092114	0.225053
SCE1572_3537	1.329480558	-15.4861	0.092114	0.225053
SCE1572_6496	1.329480558	-15.4861	0.092114	0.225053
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SCE1572_8661	1.185705346	-13.632	0.092205	0.225222
SCE1572_10961	-1.271423487	-15.1389	0.09233	0.225476
SCE1572_10378	1.2185425	-14.361	0.092385	0.225559
SCE1572_5617	1.247950672	-14.5269	0.09241	0.225567
SCE1572_5451	1.183142376	-13.7113	0.092579	0.225927
SCE1572_3580	1.19324478	-13.8173	0.092633	0.226007
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SCE1572_8650	1.353067378	-15.7963	0.092993	0.226098
SCE1572_6671	1.353067378	-15.7963	0.092993	0.226098
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SCE1572_11204	-1.15594627	-13.4658	0.093375	0.226098
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SCE1572_413	1.241646095	-14.852	0.093896	0.226098
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SCE1572_8355	1.287354194	-15.1045	0.094086	0.226098
SCE1572_10248	1.277013138	-15.0973	0.094086	0.226098
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SCE1572_8756	1.132966768	-13.0819	0.099443	0.233364
SCE1572_11254	-1.137406139	-13.8063	0.099702	0.23392
SCE1572_1184	1.133560348	-13.1511	0.09981	0.234122
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SCE1572_11522	1.313539014	-15.816	0.101288	0.236376
SCE1572_6093	1.313539014	-15.816	0.101288	0.236376
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SCE1572_5335	-1.128683315	-13.6563	0.10226	0.237905
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SCE1572_10946	1.130147945	-13.2832	0.102606	0.238448
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SCE1572_1745	1.25909123	-15.2583	0.103108	0.239454
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SCE1572_3136	1.313539014	-15.7006	0.10344	0.240014
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SCE1572_7622	-1.103779427	-12.8886	0.104024	0.241156
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SCE1572_9536	1.141772665	-13.8722	0.104182	0.241416
SCE1572_642	-1.101498486	-12.9647	0.104249	0.241519
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SCE1572_9525	-1.493815908	-16.9973	0.104627	0.241808
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SCE1572_7340	-1.092575407	-12.982	0.108563	0.248069
SCE1572_7037	-1.15594627	-14.4658	0.108677	0.248222
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SCE1572_9725	-1.730855106	-17.4638	0.119582	0.264237
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SCE1572_7415	1.728576513	-17.6085	0.119582	0.264237
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SCE1572_6868	1.728576513	-17.6085	0.119582	0.264237
SCE1572_11307	-1.103300728	-14.1337	0.11968	0.264397
SCE1572_2224	1.313539014	-15.9416	0.119726	0.264443
SCE1572_1076	-1.090851241	-14.1113	0.119821	0.264597
SCE1572_4783	1.059989646	-12.7377	0.119963	0.264855
SCE1572_3464	1.0656115	-12.9551	0.120144	0.265199
SCE1572_9553	1.252138469	-15.8467	0.120281	0.265391
SCE1572_11533	1.252138469	-15.8467	0.120281	0.265391
SCE1572_1398	1.072254191	-13.2179	0.120317	0.265415
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SCE1572_1003	1.153598101	-14.7261	0.120456	0.265553
SCE1572_4456	-1.114697983	-14.6844	0.120456	0.265553
SCE1572_2701	1.100909561	-14.0155	0.120588	0.265789
SCE1572_9475	-1.080601145	-13.9687	0.120704	0.26599
SCE1572_9181	1.125466666	-14.5882	0.121194	0.266988
SCE1572_1298	1.256955485	-15.7289	0.121234	0.266988
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SCE1572_4311	1.131932207	-14.5376	0.121519	0.267561
SCE1572_933	-1.043154499	-12.6427	0.121838	0.268206
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SCE1572_5886	1.081092928	-13.7099	0.122225	0.268835
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SCE1572_10959	1.231076853	-15.5353	0.122363	0.268835
SCE1572_1159	1.231076853	-15.5353	0.122363	0.268835
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SCE1572_8565	-1.025413177	-11.014	0.122918	0.269569
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SCE1572_2981	-1.137122395	-15.2688	0.123485	0.270531
SCE1572_88	-1.069115312	-14.0532	0.123692	0.270923
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SCE1572_9834	1.188008132	-15.1418	0.124318	0.271738
SCE1572_7719	1.174832743	-15.1484	0.124318	0.271738
SCE1572_6139	-1.078778409	-13.8829	0.124358	0.271738
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SCE1572_7612	-1.022064018	-12.519	0.128826	0.276999
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SCE1572_6738	-1.178314083	-15.74	0.131224	0.278463
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SCE1572_329	-1.110958815	-14.9408	0.13145	0.278463
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SCE1572_3405	1.109398297	-14.9181	0.137938	0.288665
SCE1572_9950	1.135751894	-14.9663	0.138111	0.28897
SCE1572_4929	-1.082389663	-14.9551	0.138292	0.28929
SCE1572_6473	-0.997061075	-12.3469	0.138433	0.289396
SCE1572_2107	-1.024629722	-13.504	0.138471	0.289396
SCE1572_2115	1.127125889	-15.0348	0.13848	0.289396
SCE1572_10271	1.127125889	-15.0348	0.13848	0.289396
SCE1572_2577	1.114634945	-15.041	0.13848	0.289396
SCE1572_8728	1.117618804	-15.1067	0.13888	0.290118
SCE1572_2911	1.104443415	-15.1132	0.13888	0.290118
SCE1572_10516	0.993745309	-11.9389	0.138963	0.290232
SCE1572_9518	-1.041941641	-14.1358	0.139034	0.290276
SCE1572_6642	1.148115404	-15.1618	0.139094	0.290276

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SCE1572_1304	-0.999248427	-12.6748	0.139176	0.29039
SCE1572_10738	1.040690318	-13.6548	0.139298	0.290586
SCE1572_8394	-1.003171372	-12.7139	0.139447	0.29084
SCE1572_5247	1.124505189	-15.2476	0.13955	0.290997
SCE1572_10505	1.158564354	-15.3086	0.139794	0.291448
SCE1572_3940	-0.986391979	-11.5881	0.139841	0.291489
SCE1572_8985	-1.101498486	-15.2866	0.140049	0.291781
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SCE1572_9095	-1.049031066	-14.2969	0.140065	0.291781
SCE1572_2888	1.148908312	-15.3959	0.140317	0.292075
SCE1572_4632	1.148908312	-15.3959	0.140317	0.292075
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SCE1572_2012	1.148908312	-15.3959	0.140317	0.292075
SCE1572_874	1.03936405	-13.8377	0.140543	0.292487
SCE1572_8549	1.188008132	-15.4638	0.140598	0.292543
SCE1572_5011	-1.15594627	-15.4658	0.140892	0.29304
SCE1572_7836	-1.119420394	-15.4476	0.140892	0.29304
SCE1572_10090	-1.00660607	-13.188	0.141083	0.29338
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SCE1572_5414	1.179237922	-15.5613	0.141201	0.293451
SCE1572_5497	-1.012036858	-13.5194	0.141316	0.293632
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SCE1572_10075	-0.974097971	-10.3513	0.141447	0.293787
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SCE1572_1137	1.086274114	-14.6567	0.142469	0.295385
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SCE1572_8820	1.200630978	-15.8725	0.143002	0.29614
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SCE1572_3037	1.246424818	-15.9751	0.143419	0.296537
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SCE1572_1118	0.997676919	-13.0832	0.144314	0.297978
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SCE1572_6470	1.313539014	-16.2311	0.144797	0.298505
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SCE1572_6147	1.586557508	-17.2645	0.14853	0.300951
SCE1572_7049	1.586557508	-17.2645	0.14853	0.300951
SCE1572_8122	1.586557508	-17.2645	0.14853	0.300951
SCE1572_9141	1.586557508	-17.2645	0.14853	0.300951
SCE1572_6214	1.586557508	-17.2645	0.14853	0.300951
SCE1572_10315	-1.512431587	-17.1136	0.14853	0.300951
SCE1572_1542	-1.386900704	-17.0508	0.14853	0.300951
SCE1572_501	1.143614012	-15.316	0.148628	0.301034
SCE1572_7314	1.12850712	-15.3236	0.148628	0.301034
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SCE1572_7751	1.042467289	-14.3666	0.150005	0.30324
SCE1572_9867	-1.024508747	-14.3412	0.150005	0.30324
SCE1572_796	-0.969014843	-12.5593	0.150154	0.303481
SCE1572_5846	-1.008389081	-14.0701	0.150781	0.304608
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SCE1572_6113	-1.115304285	-15.4861	0.151025	0.304891
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SCE1572_7913	1.143614012	-15.5791	0.15172	0.306118
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SCE1572_4934	-0.953062007	-11.8725	0.153342	0.30815
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SCE1572_5058	1.177883914	-15.7684	0.154099	0.309306
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SCE1572_4658	-1.032235823	-14.6432	0.154628	0.310117
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SCE1572_10103	-1.129404482	-15.7645	0.155007	0.310722
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SCE1572_3023	1.223341205	-15.9867	0.157034	0.313592
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SCE1572_5637	1.03936405	-14.8377	0.157497	0.314152
SCE1572_337	1.024032396	-14.5014	0.157554	0.314152
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SCE1572_6204	-1.069789626	-15.2707	0.158037	0.314996
SCE1572_11416	-1.069789626	-15.2707	0.158037	0.314996
SCE1572_10646	1.062000247	-14.8829	0.158152	0.315142

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SCE1572_5132	-0.990241735	-14.2491	0.158457	0.315654
SCE1572_9984	1.004907741	-14.0635	0.158704	0.316086
SCE1572_6451	0.989568946	-13.7115	0.159011	0.316638
SCE1572_7176	-0.98191687	-14.0569	0.159127	0.316754
SCE1572_2669	1.031768045	-14.5877	0.159223	0.316754
SCE1572_4537	1.240700448	-16.1774	0.159401	0.316754
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SCE1572_244	1.180381069	-16.1457	0.159401	0.316754
SCE1572_3254	-1.15594627	-16.0508	0.159401	0.316754
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SCE1572_3752	-0.960221799	-13.198	0.159799	0.317228
SCE1572_11300	-1.01988472	-14.5904	0.159824	0.317228
SCE1572_5572	0.949911586	-12.586	0.159841	0.317228
SCE1572_10428	1.10054529	-15.42	0.159851	0.317228
SCE1572_1378	1.10054529	-15.42	0.159851	0.317228
SCE1572_2019	1.002938925	-14.3469	0.15995	0.317365
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SCE1572_10531	31.27181629	-34.3801	0.161491	0.318201
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SCE1572_390	1.353067378	-16.7963	0.169557	0.328644
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SCE1572_7998	1.066958148	-15.6011	0.175242	0.336104
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SCE1572_8365	1.134568873	-16.1686	0.17611	0.337215
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SCE1572_2273	-1.094545725	-16.0815	0.17611	0.337215
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SCE1572_5998	-0.973742938	-14.9597	0.177117	0.338127
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SCE1572_966	-0.915942832	-13.4283	0.177476	0.338414
SCE1572_2171	0.932590405	-13.2877	0.177653	0.33869
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SCE1572_11463	-0.894687003	-11.3681	0.178523	0.33955
SCE1572_10824	-0.933842128	-13.7433	0.178579	0.339594
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SCE1572_5479	1.066446152	-15.3546	0.178732	0.339762
SCE1572_3434	-0.904749009	-12.4174	0.178813	0.339815
SCE1572_2938	-0.922619686	-13.6487	0.178915	0.339815
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SCE1572_9527	-1.049031066	-15.6754	0.178922	0.339815
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SCE1572_10732	0.960523241	-14.1513	0.179513	0.340816
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SCE1572_2940	-1.021445234	-15.359	0.1804	0.342348
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SCE1572_7909	-0.963301192	-15.1471	0.193208	0.357686
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SCE1572_11413	0.954289293	-14.6264	0.193353	0.357686
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SCE1572_11134	0.976504026	-14.9846	0.193898	0.358484
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SCE1572_8533	0.932109907	-14.5473	0.203874	0.372218
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SCE1572_5115	-0.919951117	-14.6598	0.204404	0.372861
SCE1572_732	0.919718	-14.691	0.204404	0.372861
SCE1572_5783	-0.927469086	-14.8211	0.205024	0.373928
SCE1572_159	-0.853475296	-12.4762	0.205252	0.374121
SCE1572_606	-0.848922469	-12.5693	0.205366	0.374121
SCE1572_9406	-1.271423487	-16.993	0.205414	0.374121
SCE1572_9280	1.264629413	-17.1035	0.205414	0.374121
SCE1572_1335	1.264629413	-17.1035	0.205414	0.374121
SCE1572_6196	1.264629413	-17.1035	0.205414	0.374121
SCE1572_1225	1.264629413	-17.1035	0.205414	0.374121
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SCE1572_5717	-0.858199558	-12.8503	0.205573	0.374279
SCE1572_6500	-1.008389081	-15.6551	0.205609	0.374279
SCE1572_2736	-0.968860717	-15.6353	0.205609	0.374279
SCE1572_4758	0.857501052	-12.7835	0.205643	0.374279
SCE1572_5949	0.876006877	-13.316	0.205795	0.374491
SCE1572_6180	0.880064266	-13.4885	0.206054	0.374831
SCE1572_70	0.880064266	-13.4885	0.206054	0.374831
SCE1572_1930	-0.861547693	-13.3593	0.206132	0.374908
SCE1572_5146	1.102034908	-16.0473	0.206388	0.375028
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SCE1572_5427	-0.998404993	-15.972	0.206388	0.375028
SCE1572_5570	0.841288735	-11.4933	0.206412	0.375028
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SCE1572_4466	0.991610919	-15.24	0.206639	0.375146
SCE1572_8869	0.976504026	-15.2476	0.206639	0.375146
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SCE1572_4360	-0.868664318	-13.6095	0.206869	0.375146
SCE1572_926	0.947000032	-14.8838	0.207044	0.375399
SCE1572_2435	-0.916758606	-14.5854	0.207221	0.375656
SCE1572_11107	-0.867033232	-13.8189	0.207345	0.375752
SCE1572_7360	-0.876122206	-13.9723	0.207346	0.375752
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SCE1572_2424	-0.846708074	-12.4588	0.207816	0.376173
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SCE1572_9381	-0.88999438	-14.2548	0.208035	0.376173
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SCE1572_4504	0.878323632	-14.0337	0.209786	0.378413
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SCE1572_9390	-0.886759637	-14.3312	0.212594	0.381162
SCE1572_7878	1.050504608	-15.8321	0.212687	0.381162
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SCE1572_3748	-0.821257764	-12.3187	0.219177	0.389063
SCE1572_11295	-1.271423487	-17.3716	0.219277	0.389063
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SCE1572_3862	-0.894569182	-14.439	0.21955	0.389348
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SCE1572_11364	0.816039354	-12.5623	0.228382	0.399222
SCE1572_5312	0.860488188	-14.0729	0.228647	0.399618
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SCE1572_7567	1.120893936	-16.4973	0.232558	0.404757
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SCE1572_2199	0.809496508	-14.3676	0.255543	0.429429
SCE1572_9428	-0.761348198	-12.4328	0.255688	0.429604
SCE1572_11527	0.839607825	-14.9941	0.255952	0.429979
SCE1572_11458	-0.789890576	-13.7248	0.256023	0.43003
SCE1572_9105	-0.804855687	-14.6788	0.25718	0.431905
SCE1572_3980	-0.796884976	-13.8864	0.257349	0.432119
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SCE1572_1127	1.143614012	-16.901	0.25882	0.433897
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SCE1572_6838	0.898501514	-15.2866	0.259338	0.434349
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SCE1572_3106	-0.875494811	-15.2476	0.259338	0.434349
SCE1572_7742	-0.775728324	-13.8018	0.259515	0.434577
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SCE1572_7842	-0.734670079	-13.2754	0.281137	0.459264
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SCE1572_4890	-0.713831958	-12.0181	0.28558	0.459994
SCE1572_7472	-0.77296998	-14.467	0.285645	0.459994
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SCE1572_1904	31.00878188	-34.5117	0.285714	0.459994
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SCE1572_11138	31.00878188	-34.5117	0.285714	0.459994
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SCE1572_6441	31.00878188	-34.5117	0.285714	0.459994
SCE1572_8091	31.00878188	-34.5117	0.285714	0.459994
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SCE1572_6945	31.00878188	-34.5117	0.285714	0.459994
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SCE1572_8687	0.887775108	-15.707	0.290856	0.465848
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SCE1572_11082	-0.78599666	-14.8069	0.291353	0.46643
SCE1572_2032	0.778959298	-14.8288	0.291353	0.46643
SCE1572_3694	0.757527887	-14.4696	0.291686	0.466892
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SCE1572_66	-0.721226404	-14.0261	0.306292	0.481408
SCE1572_3261	-0.706638868	-13.8261	0.307089	0.482588
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SCE1572_6522	-0.768923147	-15.2723	0.307454	0.483018
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SCE1572_3279	-0.717825157	-14.4625	0.311801	0.487734
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SCE1572_8398	0.711702694	-14.2757	0.314245	0.489881
SCE1572_7163	-0.706925089	-14.2615	0.314245	0.489881
SCE1572_1735	0.708768032	-13.922	0.314559	0.490288
SCE1572_1105	0.781043933	-14.9124	0.314692	0.490288
SCE1572_4511	0.768104877	-14.9188	0.314692	0.490288
SCE1572_2314	-0.738549497	-14.8725	0.314692	0.490288
SCE1572_6146	0.728576513	-14.1389	0.314826	0.490423
SCE1572_6070	-1.049031066	-16.9973	0.315121	0.490487
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SCE1572_2880	-0.949495392	-16.9476	0.315121	0.490487
SCE1572_9482	-0.949495392	-16.9476	0.315121	0.490487
SCE1572_4738	-0.89945471	-16.42	0.315146	0.490487
SCE1572_451	-0.89945471	-16.42	0.315146	0.490487
SCE1572_10518	0.67988702	-12.8977	0.315371	0.490763
SCE1572_4600	-0.74090877	-14.6733	0.315564	0.490992
SCE1572_2642	0.772970632	-15.0863	0.316047	0.49167
SCE1572_11465	0.738560602	-14.5186	0.316206	0.491845
SCE1572_8274	-0.771852478	-15.5857	0.316443	0.492082
SCE1572_8298	0.670695597	-12.2467	0.316452	0.492082
SCE1572_4543	0.70801519	-13.9758	0.316504	0.49209
SCE1572_4294	0.692050637	-13.5825	0.316597	0.492161

SCE1572_11399	-0.715030139	-14.3278	0.316697	0.492245
SCE1572_2329	0.739464829	-14.6437	0.317431	0.493313
SCE1572_7427	0.692854591	-13.1878	0.317496	0.493341
SCE1572_9450	0.779202586	-15.2759	0.317704	0.493517
SCE1572_10263	0.762523845	-15.2842	0.317704	0.493517
SCE1572_8926	-0.713645816	-14.4488	0.317845	0.493591
SCE1572_8922	-0.713645816	-14.4488	0.317845	0.493591
SCE1572_431	0.728576513	-14.3012	0.318158	0.493931
SCE1572_5811	0.719963383	-14.3055	0.318158	0.493931
SCE1572_8677	-0.811991868	-15.8788	0.318503	0.494322
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SCE1572_5496	0.728576513	-14.7866	0.318877	0.494776
SCE1572_4442	0.704328967	-13.7987	0.31889	0.494776
SCE1572_8319	-0.675447994	-12.9526	0.319009	0.494887
SCE1572_5293	-0.766188179	-15.4867	0.319771	0.495923
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SCE1572_10785	-0.673521931	-12.8632	0.320127	0.496402
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SCE1572_7948	-0.697432104	-13.9471	0.320849	0.496593
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SCE1572_1849	0.702581304	-13.8991	0.322919	0.4986
SCE1572_3859	-0.667601959	-13.1437	0.323236	0.499016
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SCE1572_4015	-0.678725338	-13.4429	0.323866	0.499609
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SCE1572_1844	0.717929269	-14.6113	0.324125	0.499802
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SCE1572_5134	-1.119420394	-17.4476	0.324544	0.500228
SCE1572_3133	0.669075501	-13.0939	0.324966	0.500804
SCE1572_1943	0.781687849	-15.345	0.325362	0.500931
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SCE1572_9127	-0.728281162	-15.2926	0.325362	0.500931
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SCE1572_10615	0.718234569	-14.5694	0.325652	0.500931
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SCE1572_1564	-0.805759915	-16.0683	0.325858	0.500931
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SCE1572_11290	-0.646825211	-10.2924	0.326679	0.502048
SCE1572_1420	-0.730855106	-14.9638	0.3269	0.502239
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SCE1572_9583	0.728576513	-14.5236	0.327085	0.502378
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SCE1572_11270	-0.664208179	-12.7974	0.327665	0.503195
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SCE1572_1143	-0.773923828	-15.3573	0.333635	0.507839

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SCE1572_2486	-0.680536152	-14.0582	0.333862	0.508038
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SCE1572_894	-0.666724768	-13.4723	0.334361	0.508651
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SCE1572_8485	0.744878325	-15.2259	0.337541	0.51105
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SCE1572_10539	0.671992985	-14.0213	0.339255	0.513496
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SCE1572_10792	-0.657314641	-13.7717	0.340455	0.515077
SCE1572_10783	0.705856436	-14.7048	0.340545	0.515077
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SCE1572_9982	0.714076943	-15.0569	0.340729	0.515283
SCE1572_10612	-0.67386095	-14.1468	0.340934	0.515517
SCE1572_6040	-0.633698325	-11.9275	0.340982	0.515517
SCE1572_4320	0.692050637	-14.3898	0.341254	0.515825

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SCE1572_8602	0.714637322	-15	0.342113	0.516495
SCE1572_2482	-0.679301195	-14.3313	0.34212	0.516495
SCE1572_6784	0.656426727	-13.372	0.342442	0.516907
SCE1572_5347	0.816039354	-16.0648	0.342553	0.516917
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SCE1572_7413	-0.664705718	-14.0278	0.343084	0.517565
SCE1572_8197	1.001595007	-16.972	0.343208	0.517565
SCE1572_227	1.001595007	-16.972	0.343208	0.517565
SCE1572_3408	-0.659988775	-13.6329	0.343223	0.517565
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SCE1572_1746	0.66202532	-13.796	0.343733	0.518187
SCE1572_7922	0.764200423	-15.3537	0.344281	0.518854
SCE1572_8109	0.764200423	-15.3537	0.344281	0.518854
SCE1572_3964	0.687934528	-14.222	0.34445	0.518854
SCE1572_3787	-0.66683218	-14.2014	0.34445	0.518854
SCE1572_621	0.689048149	-14.5038	0.344529	0.518854
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SCE1572_1594	-0.670519442	-14.4861	0.344529	0.518854
SCE1572_9318	-0.625585249	-11.1155	0.344571	0.518854
SCE1572_10857	0.654628661	-13.5605	0.344664	0.518919
SCE1572_5828	0.835491717	-15.9396	0.345195	0.519349
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SCE1572_11232	0.809496508	-15.9526	0.345195	0.519349
SCE1572_11499	0.809496508	-15.9526	0.345195	0.519349
SCE1572_2131	0.809496508	-15.9526	0.345195	0.519349
SCE1572_2412	0.690102365	-14.4648	0.345374	0.519542
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SCE1572_5702	-0.671510645	-14.3935	0.346168	0.520439
SCE1572_9032	0.70511754	-14.751	0.346613	0.520885
SCE1572_523	-0.677062288	-14.7239	0.346613	0.520885
SCE1572_7423	-0.677062288	-14.7239	0.346613	0.520885
SCE1572_10475	-0.65707718	-14.0465	0.347047	0.521464
SCE1572_8973	-0.686460986	-15.1531	0.347134	0.521519
SCE1572_5560	0.693006557	-14.3265	0.347623	0.522104
SCE1572_5579	0.684987244	-14.323	0.347623	0.522104
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SCE1572_1908	-0.686460986	-15.0791	0.348353	0.522888
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SCE1572_10848	0.750944326	-15.6823	0.349299	0.524172
SCE1572_9751	0.658498077	-13.8705	0.350144	0.525365
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SCE1572_7397	0.770396689	-15.5851	0.350922	0.526083
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SCE1572_9288	-0.620904356	-11.9716	0.351796	0.527054
SCE1572_5948	0.682772823	-14.3945	0.35192	0.527054
SCE1572_3927	-0.679081456	-14.3749	0.35192	0.527054
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SCE1572_4431	1.231076853	-17.8573	0.352672	0.527054
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SCE1572_5107	-0.613948487	-13.7648	0.377523	0.550199
SCE1572_9704	-0.610909953	-13.8241	0.377724	0.550416
SCE1572_1860	-0.617873901	-13.891	0.377941	0.550656
SCE1572_591	-0.603267051	-13.1696	0.378392	0.551236
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SCE1572_10663	-0.597298766	-12.8407	0.379208	0.552272
SCE1572_8529	0.620427709	-14.2557	0.37934	0.552388
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SCE1572_3786	-0.58071811	-11.4747	0.382205	0.5561
SCE1572_11431	0.67795044	-14.8608	0.382259	0.5561
SCE1572_5978	0.665011384	-14.8673	0.382259	0.5561
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SCE1572_9581	-0.653294122	-14.9582	0.382988	0.557005
SCE1572_3897	-0.651695568	-15.0261	0.383391	0.557516
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SCE1572_9631	0.710429166	-15.3806	0.385344	0.55989
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SCE1572_10727	0.582725646	-14.481	0.42451	0.596765
SCE1572_9531	-0.569104036	-14.4597	0.42451	0.596765
SCE1572_2429	-0.569104036	-14.4597	0.42451	0.596765
SCE1572_3715	-0.538210028	-13.0601	0.424825	0.597128
SCE1572_1604	0.614405493	-15.227	0.42521	0.59751
SCE1572_10262	0.614405493	-15.227	0.42521	0.59751
SCE1572_10905	-0.544441981	-13.472	0.425416	0.597719

SCE1572_4434	0.569724919	-14.1886	0.425951	0.59839
SCE1572_9487	-0.633993566	-15.6199	0.42641	0.598716
SCE1572_2538	-0.633993566	-15.6199	0.42641	0.598716
SCE1572_9072	-0.600046235	-15.6029	0.42641	0.598716
SCE1572_7860	-0.600046235	-15.6029	0.42641	0.598716
SCE1572_4531	0.586557508	-14.7645	0.427377	0.599993
SCE1572_10115	-0.547121739	-13.4365	0.427503	0.599995
SCE1572_4107	0.760997991	-16.2178	0.427663	0.599995
SCE1572_7492	0.728576513	-16.2341	0.427663	0.599995
SCE1572_5714	-0.711996078	-16.1658	0.427663	0.599995
SCE1572_1163	-0.711996078	-16.1658	0.427663	0.599995
SCE1572_11191	-0.55401069	-13.6343	0.427935	0.600103
SCE1572_11437	-0.630965874	-15.2858	0.427969	0.600103
SCE1572_5070	-0.603998826	-15.2723	0.427969	0.600103
SCE1572_10616	-0.603998826	-15.2723	0.427969	0.600103
SCE1572_193	-0.547484573	-13.8558	0.428493	0.600613
SCE1572_6099	-0.547484573	-13.8558	0.428493	0.600613
SCE1572_5211	-0.538284672	-13.0885	0.428504	0.600613
SCE1572_7639	-0.564470462	-14.2525	0.428925	0.601123
SCE1572_3105	-0.555991054	-13.9959	0.429503	0.601853
SCE1572_3961	-0.531776303	-12.5755	0.429595	0.601903
SCE1572_9780	0.587978183	-14.6345	0.429976	0.602125
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SCE1572_11205	-1.856385988	-19.401	0.430642	0.602566
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SCE1572_8162	-1.856385988	-19.401	0.430642	0.602566
SCE1572_9264	-0.552836422	-14.0304	0.430879	0.602789
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SCE1572_4448	1.050504608	-17.5325	0.431875	0.603493
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SCE1572_6202	0.547660728	-13.6547	0.432366	0.603702
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SCE1572_746	-0.554595538	-13.6769	0.43351	0.604889
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SCE1572_9073	0.548368538	-13.7392	0.435932	0.607383
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SCE1572_3305	-0.52984864	-13.3569	0.436992	0.608618
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SCE1572_2330	0.542564527	-13.8323	0.439946	0.61055
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SCE1572_10507	-0.52776324	-13.8954	0.44845	0.618272
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SCE1572_5677	-0.570983769	-15.0213	0.456779	0.626225
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SCE1572_6794	-0.639155272	-16.0554	0.459963	0.629382
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SCE1572_8255	-0.500047862	-12.8649	0.461311	0.629975
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SCE1572_4414	0.866080037	-17.3028	0.465039	0.633585
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SCE1572_5853	0.825512995	-17.3231	0.465039	0.633585
SCE1572_11592	0.798965841	-17.3364	0.465039	0.633585
SCE1572_8229	0.798965841	-17.3364	0.465039	0.633585
SCE1572_9970	0.798965841	-17.3364	0.465039	0.633585
SCE1572_310	0.798965841	-17.3364	0.465039	0.633585
SCE1572_5509	0.798965841	-17.3364	0.465039	0.633585
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SCE1572_5891	-0.598998145	-15.3573	0.465843	0.634188
SCE1572_2649	0.584186604	-15.3734	0.465843	0.634188
SCE1572_3303	-0.570983769	-15.3433	0.465843	0.634188
SCE1572_11473	0.565077781	-15.3829	0.465843	0.634188

SCE1572_11425	-0.494491486	-12.8293	0.466006	0.634327
SCE1572_9221	0.486819946	-11.745	0.466164	0.634392
SCE1572_10645	-0.510034419	-13.9552	0.466174	0.634392
SCE1572_11150	-0.519351	-14.4846	0.466269	0.63444
SCE1572_11212	0.581019325	-15.5973	0.466499	0.634588
SCE1572_2331	0.581019325	-15.5973	0.466499	0.634588
SCE1572_5537	0.535931435	-14.6199	0.46683	0.634956
SCE1572_7874	-0.625060442	-15.8467	0.467198	0.635114
SCE1572_7142	-0.499043708	-13.8327	0.467486	0.635114
SCE1572_5977	0.695409649	-16.2506	0.467814	0.635114
SCE1572_3507	0.772970632	-16.6713	0.467852	0.635114
SCE1572_1436	0.772970632	-16.6713	0.467852	0.635114
SCE1572_6306	0.772970632	-16.6713	0.467852	0.635114
SCE1572_3794	0.772970632	-16.6713	0.467852	0.635114
SCE1572_4005	-0.756850314	-16.6288	0.467852	0.635114
SCE1572_640	-0.756850314	-16.6288	0.467852	0.635114
SCE1572_3883	0.728576513	-16.6935	0.467852	0.635114
SCE1572_7757	0.728576513	-16.6935	0.467852	0.635114
SCE1572_8131	0.728576513	-16.6935	0.467852	0.635114
SCE1572_7452	-0.686460986	-16.5937	0.467852	0.635114
SCE1572_9211	-0.686460986	-16.5937	0.467852	0.635114
SCE1572_2809	0.663189062	-16.6644	0.467852	0.635114
SCE1572_4754	-0.516535985	-13.9941	0.468424	0.635808
SCE1572_10034	0.509936226	-13.8028	0.469075	0.636499
SCE1572_10024	0.57533982	-15.0697	0.469114	0.636499
SCE1572_5386	0.567295606	-15.0737	0.469114	0.636499
SCE1572_2984	0.505198307	-13.8744	0.469589	0.637061
SCE1572_8966	-0.504084244	-13.7552	0.470579	0.63824
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SCE1572_3320	-0.494801693	-13.3744	0.470709	0.638334
SCE1572_3249	-0.525180079	-14.3662	0.471039	0.638699
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SCE1572_3979	-0.54705793	-14.8077	0.471336	0.638918
SCE1572_258	-0.593351582	-15.4476	0.471443	0.638918
SCE1572_6138	-0.593351582	-15.4476	0.471443	0.638918
SCE1572_2748	-0.498833983	-13.4003	0.472304	0.640002
SCE1572_3392	-0.481174469	-12.0552	0.472527	0.640221
SCE1572_1504	-0.491204695	-13.7798	0.472635	0.640285
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SCE1572_11446	-0.478656101	-12.5624	0.474349	0.642441
SCE1572_599	0.671992985	-16.0213	0.474911	0.642872
SCE1572_4326	0.642846639	-16.0359	0.474911	0.642872
SCE1572_8627	0.642846639	-16.0359	0.474911	0.642872
SCE1572_5619	-0.61934679	-15.9751	0.474911	0.642872
SCE1572_9737	-0.52140174	-14.859	0.475519	0.643613
SCE1572_802	-0.490433269	-13.1532	0.476199	0.644417
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SCE1572_10466	0.505070471	-14.0504	0.477489	0.644454
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SCE1572_8695	-0.555216453	-15.528	0.477755	0.644731
SCE1572_10312	0.486501726	-12.872	0.478011	0.644993
SCE1572_4217	-0.499375434	-14.2851	0.478105	0.645036
SCE1572_8403	0.496760838	-13.8094	0.478356	0.645293
SCE1572_154	-0.534457893	-14.5701	0.478927	0.645503
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SCE1572_9761	-0.908853408	-17.7048	0.479207	0.645503
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SCE1572_2389	-0.768923147	-16.8573	0.479616	0.645503
SCE1572_3639	-0.768923147	-16.8573	0.479616	0.645503
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SCE1572_4503	0.514451708	-14.9426	0.480071	0.645923
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SCE1572_10353	-0.456245206	-10.111	0.488171	0.653607
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SCE1572_2682	0.545712456	-15.3926	0.491653	0.656828
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SCE1572_951	-0.509583224	-14.789	0.496348	0.660862
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SCE1572_3274	0.535931435	-15.6199	0.496369	0.660862
SCE1572_3954	0.527663819	-15.1501	0.496484	0.660932
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SCE1572_2875	-0.514694638	-15.4571	0.499021	0.66305
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SCE1572_5761	0.499952138	-14.9498	0.500122	0.664345

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SCE1572_4021	-0.543503032	-15.3295	0.501238	0.665492
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SCE1572_10351	0.48600621	-14.4225	0.507914	0.673505
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SCE1572_9636	-0.448728019	-13.0825	0.510436	0.676164
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SCE1572_5140	0.626696899	-16.285	0.511408	0.676518
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SCE1572_1711	0.475128156	-14.3284	0.51353	0.678207
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SCE1572_1969	0.613099296	-16.0508	0.513776	0.678207
SCE1572_3167	-0.548957463	-16.0103	0.513776	0.678207
SCE1572_3523	-0.507863683	-14.8854	0.514417	0.678207
SCE1572_2884	-0.507863683	-14.8854	0.514417	0.678207
SCE1572_6171	0.494111259	-14.9038	0.514417	0.678207
SCE1572_8618	0.494111259	-14.9038	0.514417	0.678207
SCE1572_8603	-0.488234876	-14.8756	0.514417	0.678207

SCE1572_3798	-0.488234876	-14.8756	0.514417	0.678207
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SCE1572_2086	-0.437433438	-14.168	0.540457	0.698688
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SCE1572_6661	-0.436234357	-13.8165	0.540956	0.698896
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SCE1572_1953	-0.477874365	-15.3898	0.547186	0.700414
SCE1572_6894	0.421801561	-13.8025	0.547495	0.700725
SCE1572_5878	0.474819921	-14.8662	0.548173	0.701506
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SCE1572_10389	-0.431888159	-14.4408	0.548527	0.701789
SCE1572_10352	0.503016813	-15.5583	0.548796	0.701943
SCE1572_9108	-0.471722138	-15.5388	0.548796	0.701943
SCE1572_6021	-0.400156801	-12.3153	0.548847	0.701943
SCE1572_1850	0.409061625	-13.0459	0.549241	0.702361
SCE1572_8605	-0.441348488	-14.5236	0.549518	0.702629
SCE1572_9256	-0.406172899	-12.9662	0.549959	0.703108
SCE1572_5053	0.438234761	-14.2537	0.550376	0.703556
SCE1572_1046	0.523756721	-15.7084	0.550667	0.703757
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SCE1572_3900	-0.4103999	-13.6483	0.551735	0.704759
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SCE1572_3319	-0.436847096	-14.3693	0.552341	0.705195
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SCE1572_7839	-0.457836611	-15.2423	0.554174	0.706693
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SCE1572_9432	0.401001855	-14.8573	0.596596	0.74185
SCE1572_6806	0.424570326	-15.2016	0.596696	0.74185
SCE1572_5020	0.406648418	-15.2106	0.596696	0.74185
SCE1572_11333	-0.378338691	-13.7392	0.596895	0.742009
SCE1572_10662	0.38065321	-14.0601	0.597321	0.742351
SCE1572_98	0.667175968	-17.1392	0.597593	0.742351
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SCE1572_1825	0.667175968	-17.1392	0.597593	0.742351
SCE1572_3391	-0.593351582	-17.0325	0.597593	0.742351
SCE1572_6266	-0.593351582	-17.0325	0.597593	0.742351
SCE1572_6450	0.355917616	-12.9373	0.598299	0.74314
SCE1572_1709	0.387068049	-14.1918	0.598775	0.743555
SCE1572_7242	-0.383316367	-14.1833	0.598775	0.743555
SCE1572_9320	-0.414787662	-15.0557	0.598935	0.743579
SCE1572_2077	-0.414787662	-15.0557	0.598935	0.743579
SCE1572_24	-0.394280235	-14.6402	0.599945	0.744724
SCE1572_8560	0.519989891	-16.0973	0.600141	0.744724
SCE1572_3499	-0.474956881	-16.0473	0.600141	0.744724
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SCE1572_466	0.406648418	-14.9476	0.600817	0.745299
SCE1572_4457	-0.383898216	-14.9278	0.600817	0.745299
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SCE1572_6622	0.414467923	-15.327	0.602008	0.746425
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SCE1572_2293	-0.375760147	-14.8194	0.602421	0.74674
SCE1572_1591	-0.360357215	-13.7144	0.602513	0.74674
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SCE1572_11044	-0.406353067	-15.4536	0.640815	0.777135
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SCE1572_3235	0.304497209	-10.0806	0.643771	0.780091
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SCE1572_3741	0.367477821	-14.7448	0.645163	0.781507
SCE1572_10092	0.333716896	-13.7412	0.645353	0.781647
SCE1572_9793	0.391541526	-15.277	0.646292	0.782514
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SCE1572_7752	0.487568413	-16.1136	0.647858	0.783868
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SCE1572_4838	0.333858998	-14.3363	0.648233	0.784052
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SCE1572_7864	-0.34697452	-14.6166	0.648382	0.784142
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SCE1572_6461	0.340011225	-14.7178	0.650046	0.785911
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SCE1572_627	-0.341132459	-14.5004	0.651145	0.786774
SCE1572_11269	-0.3269186	-14.4933	0.651145	0.786774
SCE1572_5408	0.387539595	-15.6161	0.651311	0.786774
SCE1572_1820	-0.477874365	-16.3898	0.651531	0.786774
SCE1572_6618	0.439069896	-16.3788	0.651531	0.786774
SCE1572_5887	0.439069896	-16.3788	0.651531	0.786774
SCE1572_7609	-0.42342658	-16.3626	0.651531	0.786774
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SCE1572_614	0.398427911	-16.3991	0.651531	0.786774
SCE1572_10133	0.398427911	-16.3991	0.651531	0.786774
SCE1572_8790	-0.317717139	-13.6468	0.651876	0.78695
SCE1572_971	0.370682921	-14.828	0.651939	0.78695
SCE1572_6664	0.356607736	-14.8351	0.651939	0.78695
SCE1572_11064	-0.323614632	-14.3139	0.651976	0.78695
SCE1572_602	-0.310155882	-12.9745	0.652648	0.78767
SCE1572_8075	-0.332418752	-14.594	0.652863	0.78784
SCE1572_8417	0.370122542	-15.2289	0.653067	0.787906
SCE1572_6756	0.351506864	-15.2382	0.653067	0.787906
SCE1572_8208	0.3347555	-14.3985	0.653542	0.78825
SCE1572_5392	0.324186258	-14.4038	0.653542	0.78825
SCE1572_5923	-0.307492742	-13.8717	0.653578	0.78825
SCE1572_11126	0.344235811	-14.9315	0.654113	0.788625
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SCE1572_2465	-0.408927011	-15.8028	0.654708	0.789161
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SCE1572_5827	0.341583928	-14.7035	0.654801	0.789182
SCE1572_8475	0.296802225	-11.7345	0.655049	0.789392
SCE1572_3194	-0.325463327	-14.133	0.655916	0.789508
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SCE1572_11020	0.483464015	-16.816	0.656347	0.789508
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SCE1572_10930	0.325511655	-14.5731	0.657235	0.790124
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SCE1572_10214	-0.315817606	-14.1713	0.664171	0.795734
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SCE1572_10916	0.306121542	-13.8823	0.665858	0.797157
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SCE1572_10807	0.335234085	-14.4307	0.667152	0.798487
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SCE1572_3302	-0.264155487	-12.5605	0.699356	0.822635
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SCE1572_2068	0.535931435	-17.7898	0.700311	0.822635
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SCE1572_4019	-0.288701478	-14.8098	0.702916	0.824957
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SCE1572_10130	0.290455401	-15.5202	0.747485	0.855128
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SCE1572_4492	0.290455401	-15.5202	0.747485	0.855128
SCE1572_9285	-0.271423487	-15.493	0.747485	0.855128
SCE1572_6601	-0.213872464	-12.1535	0.747628	0.855198
SCE1572_5096	-0.220284638	-13.568	0.748643	0.856266
SCE1572_5791	-0.235203299	-14.2927	0.749065	0.856655
SCE1572_7355	0.217723226	-12.5739	0.749522	0.857008
SCE1572_4173	-0.219334976	-13.08	0.749633	0.857008
SCE1572_7135	0.313539014	-15.8135	0.749699	0.857008
SCE1572_4805	0.313539014	-15.8135	0.749699	0.857008
SCE1572_1485	0.232342931	-13.8755	0.74985	0.857088
SCE1572_511	0.220188537	-12.8924	0.749942	0.857099
SCE1572_9852	-0.271423487	-15.2393	0.750881	0.857987
SCE1572_10696	-0.248339874	-15.2278	0.750881	0.857987
SCE1572_5511	0.241026514	-14.8498	0.751363	0.858444
SCE1572_1241	-0.314492209	-16.1276	0.752733	0.859658
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SCE1572_9132	0.241837548	-14.1555	0.753019	0.859658
SCE1572_4202	-0.255826632	-14.6621	0.753221	0.859658
SCE1572_11179	-0.240396591	-14.6544	0.753221	0.859658
SCE1572_6329	0.264629413	-15.0186	0.75332	0.859658
SCE1572_189	-0.231895123	-15.0038	0.75332	0.859658
SCE1572_9585	0.269144894	-15.4638	0.753325	0.859658

SCE1572_6679	0.269144894	-15.4638	0.753325	0.859658
SCE1572_5281	0.246424818	-15.4751	0.753325	0.859658
SCE1572_6340	0.246424818	-15.4751	0.753325	0.859658
SCE1572_42	0.233049096	-14.515	0.754708	0.861143
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SCE1572_4067	-0.271423487	-15.9456	0.776274	0.876245
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SCE1572_3673	-0.204752447	-13.9507	0.783054	0.882026
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SCE1572_5568	0.252138469	-15.9317	0.783156	0.882026
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SCE1572_3763	-0.271423487	-16.3861	0.786774	0.885153
SCE1572_10425	-0.271423487	-16.3861	0.786774	0.885153
SCE1572_9481	0.19324478	-13.3173	0.787175	0.885508
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SCE1572_10846	0.284969861	-15.8278	0.795724	0.89022
SCE1572_1810	0.255823516	-15.8424	0.795724	0.89022
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SCE1572_6277	-0.20729315	-14.702	0.795797	0.89022
SCE1572_8372	-0.215570252	-14.9176	0.795849	0.89022
SCE1572_5692	0.20774435	-14.9095	0.795849	0.89022
SCE1572_9313	0.191977034	-14.9174	0.795849	0.89022
SCE1572_918	-0.179394349	-12.7638	0.796823	0.891215
SCE1572_3720	0.196182063	-13.9597	0.797345	0.891704
SCE1572_3779	0.194661618	-14.0778	0.797534	0.89182

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SCE1572_9458	-0.228354765	-15.1276	0.799731	0.892568
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SCE1572_6480	-0.196461429	-13.9272	0.800837	0.89333
SCE1572_10968	0.231076853	-15.7723	0.801477	0.8936
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SCE1572_7076	-0.18261422	-14.1718	0.801853	0.893701
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SCE1572_11418	0.132154897	-13.6879	0.855993	0.931637
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SCE1572_9348	0.133832991	-13.7814	0.860164	0.934572
SCE1572_8408	0.143614012	-13.9416	0.860201	0.934572
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SCE1572_11371	-0.123240265	-12.419	0.860802	0.935033
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SCE1572_4115	-0.145892605	-14.0863	0.862951	0.936883
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SCE1572_3314	0.136661252	-14.289	0.863376	0.937181
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SCE1572_1004	0.006522085	-15.5448	1	1
SCE1572_11422	0.006110488	-15.0103	1	1
SCE1572_1742	-0.005143422	-13.8509	1	1
SCE1572_8326	0.004210956	-14.2228	1	1
SCE1572_217	0.004210956	-15.8077	1	1
SCE1572_5871	-0.003490282	-14.4448	1	1
SCE1572_6667	0.003436354	-13.7162	1	1
SCE1572_10822	0.003198893	-15.102	1	1
SCE1572_6085	0.003198893	-15.102	1	1
SCE1572_1288	0.003057445	-12.9688	1	1
SCE1572_1375	0.002609918	-13.4418	1	1
SCE1572_5813	0.002499235	-14.2752	1	1
SCE1572_3007	0.001595007	-16.472	1	1

SCE1572_10854	0.001595007	-14.8871	1	1
SCE1572_3698	0.001595007	-15.472	1	1
SCE1572_4355	0.001595007	-16.472	1	1
SCE1572_2754	-0.001334324	-13.971	1	1
SCE1572_820	-0.001334324	-15.971	1	1
SCE1572_3156	-0.001334324	-15.971	1	1
SCE1572_3442	0.000656058	-14.3295	1	1
SCE1572_4897	-0.000121465	-15.1999	1	1

TableS7 Homologous genes in So0157-2 and So ce56

Sorangium cellulosum So0157-2	*Sorangium cellulosum* So ce56	E-value （So0157-2 vs So ce56）	E-value （So ce56 vs So0157-2）
SCE1572_1	sce_1	0.00E+00	0.00E+00
SCE1572_10	sce_10	9.00E-171	3.00E-166
SCE1572_100	sce_87	0.00E+00	0.00E+00
SCE1572_10000	sce_8822	2.00E-55	2.00E-55
SCE1572_10002	sce_8823	0.00E+00	0.00E+00
SCE1572_10003	sce_8824	1.00E-148	1.00E-149
SCE1572_10006	sce_8830	6.00E-49	6.00E-49
SCE1572_10007	sce_8831	4.00E-139	2.00E-121
SCE1572_10008	sce_8832	4.00E-77	3.00E-91
SCE1572_10009	sce_8833	8.00E-122	3.00E-120
SCE1572_10010	sce_8834	8.00E-30	2.00E-23
SCE1572_10011	sce_8835	9.00E-151	9.00E-151
SCE1572_10012	sce_8836	2.00E-144	4.00E-136
SCE1572_10013	sce_8837	2.00E-80	2.00E-79
SCE1572_10014	sce_8838	0.00E+00	0.00E+00
SCE1572_10015	sce_8839	0.00E+00	0.00E+00
SCE1572_10015	sce_10220	0.00E+00	0.00E+00
SCE1572_10016	sce_8840	3.00E-07	1.00E-11
SCE1572_10017	sce_8841	1.00E-136	6.00E-145
SCE1572_10018	sce_9498	2.00E-172	2.00E-172
SCE1572_10019	sce_9499	0.00E+00	0.00E+00
SCE1572_1002	sce_757	1.00E-79	7.00E-80
SCE1572_10020	sce_9500	1.00E-111	1.00E-127
SCE1572_10024	sce_10364	2.00E-148	2.00E-128
SCE1572_10026	sce_8842	2.00E-48	6.00E-54
SCE1572_10027	sce_8843	6.00E-60	1.00E-68
SCE1572_10028	sce_8844	4.00E-107	5.00E-115
SCE1572_10029	sce_8845	0.00E+00	0.00E+00
SCE1572_1003	sce_758	7.00E-175	7.00E-172
SCE1572_10030	sce_8846	2.00E-107	4.00E-111
SCE1572_10033	sce_8847	0.00E+00	0.00E+00
SCE1572_10034	sce_8851	6.00E-172	3.00E-177
SCE1572_10036	sce_8852	4.00E-54	3.00E-46
SCE1572_10037	sce_8853	4.00E-89	2.00E-103
SCE1572_10038	sce_8854	5.00E-176	3.00E-167
SCE1572_1004	sce_5158	0.00E+00	0.00E+00
SCE1572_1004	sce_1116	0.00E+00	0.00E+00
SCE1572_1004	sce_7318	0.00E+00	0.00E+00
SCE1572_10040	sce_8856	0.00E+00	0.00E+00
SCE1572_10042	sce_8858	0.00E+00	0.00E+00
SCE1572_10043	sce_8859	5.00E-147	5.00E-147
SCE1572_10044	sce_8860	3.00E-36	3.00E-36
SCE1572_10045	sce_8861	3.00E-40	3.00E-39
SCE1572_10046	sce_8862	0.00E+00	0.00E+00
SCE1572_10047	sce_8863	2.00E-43	2.00E-43
SCE1572_10048	sce_8864	0.00E+00	0.00E+00
SCE1572_10049	sce_8865	2.00E-179	7.00E-175
SCE1572_1005	sce_1115	0.00E+00	0.00E+00
SCE1572_1005	sce_5159	0.00E+00	0.00E+00
SCE1572_10050	sce_8866	0.00E+00	0.00E+00
SCE1572_10051	sce_8868	0.00E+00	0.00E+00
SCE1572_10052	sce_8869	0.00E+00	0.00E+00
SCE1572_10053	sce_8870	1.00E-165	1.00E-169
SCE1572_10054	sce_8871	0.00E+00	0.00E+00
SCE1572_10055	sce_8872	0.00E+00	0.00E+00
SCE1572_10056	sce_8873	3.00E-47	3.00E-47
SCE1572_10057	sce_8874	1.00E-161	3.00E-149
SCE1572_10058	sce_8875	8.00E-65	5.00E-65
SCE1572_10059	sce_8876	0.00E+00	0.00E+00
SCE1572_1006	sce_759	2.00E-114	6.00E-126
SCE1572_10061	sce_8878	1.00E-118	5.00E-109
SCE1572_10062	sce_8879	2.00E-49	1.00E-49
SCE1572_10063	sce_8880	3.00E-66	3.00E-66
SCE1572_10064	sce_8881	2.00E-09	2.00E-09
SCE1572_10065	sce_8882	3.00E-42	3.00E-42
SCE1572_10066	sce_8883	9.00E-113	9.00E-113
SCE1572_10067	sce_8884	0.00E+00	0.00E+00
SCE1572_10068	sce_8885	4.00E-55	3.00E-65
SCE1572_10069	sce_8886	6.00E-24	1.00E-21
SCE1572_1007	sce_760	0.00E+00	0.00E+00
SCE1572_10070	sce_8887	5.00E-83	7.00E-91
SCE1572_10071	sce_8888	1.00E-63	1.00E-63
SCE1572_10072	sce_8889	1.00E-96	3.00E-102
SCE1572_10073	sce_8890	7.00E-60	7.00E-60

SCE1572_10074	sce_8891	4.00E-30	4.00E-30
SCE1572_10075	sce_8892	3.00E-104	5.00E-105
SCE1572_10076	sce_8893	3.00E-52	3.00E-52
SCE1572_10077	sce_8894	2.00E-64	2.00E-64
SCE1572_10078	sce_8895	7.00E-43	9.00E-43
SCE1572_10079	sce_8896	2.00E-22	2.00E-22
SCE1572_1008	sce_761	0.00E+00	0.00E+00
SCE1572_10080	sce_8897	2.00E-75	2.00E-75
SCE1572_10081	sce_8898	5.00E-132	5.00E-132
SCE1572_10082	sce_8899	2.00E-49	2.00E-49
SCE1572_10083	sce_8901	3.00E-65	2.00E-58
SCE1572_10084	sce_8902	2.00E-143	2.00E-143
SCE1572_10085	sce_8903	0.00E+00	0.00E+00
SCE1572_10086	sce_8904	4.00E-39	2.00E-40
SCE1572_10089	sce_8905	6.00E-95	2.00E-97
SCE1572_1009	sce_763	0.00E+00	0.00E+00
SCE1572_10090	sce_8907	3.00E-180	1.00E-180
SCE1572_10091	sce_8909	0.00E+00	0.00E+00
SCE1572_10092	sce_8910	0.00E+00	0.00E+00
SCE1572_10093	sce_8911	8.00E-21	8.00E-21
SCE1572_10095	sce_8913	3.00E-63	8.00E-65
SCE1572_10096	sce_8914	0.00E+00	0.00E+00
SCE1572_10097	sce_8915	3.00E-59	2.00E-54
SCE1572_10098	sce_8916	4.00E-142	3.00E-130
SCE1572_10099	sce_8917	3.00E-117	5.00E-117
SCE1572_10100	sce_8918	2.00E-114	4.00E-105
SCE1572_10101	sce_8919	2.00E-125	9.00E-139
SCE1572_10102	sce_8920	6.00E-128	5.00E-128
SCE1572_10103	sce_8921	3.00E-85	6.00E-87
SCE1572_10104	sce_8922	2.00E-31	1.00E-47
SCE1572_10105	sce_8923	8.00E-36	2.00E-48
SCE1572_10106	sce_8924	3.00E-137	4.00E-137
SCE1572_10107	sce_8925	4.00E-41	4.00E-41
SCE1572_10108	sce_8926	0.00E+00	0.00E+00
SCE1572_10109	sce_8927	5.00E-60	1.00E-53
SCE1572_1011	sce_9659	3.00E-45	7.00E-46
SCE1572_10111	sce_8928	0.00E+00	0.00E+00
SCE1572_10115	sce_8930	0.00E+00	0.00E+00
SCE1572_10117	sce_8934	1.00E-95	1.00E-93
SCE1572_10118	sce_8935	2.00E-110	4.00E-113
SCE1572_10119	sce_8937	3.00E-144	7.00E-144
SCE1572_10120	sce_8938	0.00E+00	2.00E-177
SCE1572_10121	sce_8939	2.00E-76	1.00E-81
SCE1572_10122	sce_8940	0.00E+00	0.00E+00
SCE1572_10123	sce_8941	2.00E-48	1.00E-48
SCE1572_1013	sce_768	0.00E+00	0.00E+00
SCE1572_10130	sce_8942	4.00E-116	2.00E-118
SCE1572_1014	sce_769	3.00E-76	3.00E-76
SCE1572_10141	sce_8944	2.00E-119	2.00E-119
SCE1572_10142	sce_8945	0.00E+00	0.00E+00
SCE1572_10143	sce_8946	4.00E-121	3.00E-120
SCE1572_10144	sce_8947	2.00E-149	3.00E-159
SCE1572_10145	sce_8948	0.00E+00	0.00E+00
SCE1572_10146	sce_8949	0.00E+00	0.00E+00
SCE1572_10147	sce_8950	2.00E-153	4.00E-164
SCE1572_10148	sce_8951	1.00E-47	1.00E-47
SCE1572_10149	sce_8952	3.00E-33	1.00E-55
SCE1572_1015	sce_3750	0.00E+00	0.00E+00
SCE1572_1015	sce_5229	0.00E+00	0.00E+00
SCE1572_1015	sce_6712	0.00E+00	0.00E+00
SCE1572_1015	sce_5226	0.00E+00	0.00E+00
SCE1572_1015	sce_9954	0.00E+00	0.00E+00
SCE1572_10150	sce_8953	3.00E-98	4.00E-106
SCE1572_10151	sce_8954	8.00E-64	9.00E-66
SCE1572_10152	sce_8955	1.00E-51	1.00E-51
SCE1572_10153	sce_8956	3.00E-65	7.00E-79
SCE1572_10154	sce_8957	4.00E-123	4.00E-133
SCE1572_10155	sce_8958	4.00E-154	1.00E-170
SCE1572_10156	sce_8959	9.00E-24	1.00E-24
SCE1572_10157	sce_8960	0.00E+00	0.00E+00
SCE1572_10159	sce_8961	1.00E-13	3.00E-11
SCE1572_10160	sce_8962	0.00E+00	0.00E+00
SCE1572_10161	sce_8963	2.00E-176	2.00E-169
SCE1572_10165	sce_8964	2.00E-149	8.00E-159
SCE1572_10167	sce_8966	0.00E+00	0.00E+00
SCE1572_10168	sce_8967	6.00E-68	1.00E-67

SCE1572_10169	sce_8968	1.00E-55	5.00E-48
SCE1572_1017	sce_772	4.00E-45	2.00E-45
SCE1572_10170	sce_8969	2.00E-143	1.00E-134
SCE1572_10172	sce_8970	8.00E-134	8.00E-134
SCE1572_10173	sce_8972	5.00E-55	2.00E-50
SCE1572_10175	sce_8974	7.00E-33	6.00E-31
SCE1572_10176	sce_8975	2.00E-37	4.00E-29
SCE1572_10177	sce_8976	1.00E-53	4.00E-63
SCE1572_10178	sce_8977	8.00E-113	3.00E-113
SCE1572_10179	sce_8978	2.00E-126	3.00E-123
SCE1572_10180	sce_8979	8.00E-146	3.00E-145
SCE1572_10181	sce_8980	7.00E-89	2.00E-74
SCE1572_10182	sce_8981	0.00E+00	0.00E+00
SCE1572_10183	sce_9845	9.00E-94	4.00E-102
SCE1572_10184	sce_9844	3.00E-84	4.00E-83
SCE1572_10186	sce_8992	2.00E-147	4.00E-151
SCE1572_10187	sce_8993	3.00E-62	3.00E-52
SCE1572_10188	sce_8994	9.00E-130	2.00E-123
SCE1572_10189	sce_8995	0.00E+00	0.00E+00
SCE1572_10190	sce_8996	0.00E+00	0.00E+00
SCE1572_10191	sce_8997	6.00E-45	6.00E-45
SCE1572_10192	sce_8998	6.00E-46	6.00E-46
SCE1572_10193	sce_8999	4.00E-147	3.00E-161
SCE1572_10194	sce_9000	0.00E+00	0.00E+00
SCE1572_10195	sce_9001	7.00E-63	7.00E-63
SCE1572_10198	sce_9003	1.00E-33	2.00E-17
SCE1572_10199	sce_9004	0.00E+00	0.00E+00
SCE1572_102	sce_88	2.00E-78	5.00E-70
SCE1572_10200	sce_9005	1.00E-73	1.00E-73
SCE1572_10201	sce_9006	3.00E-112	1.00E-125
SCE1572_10206	sce_8592	0.00E+00	0.00E+00
SCE1572_10206	sce_3937	0.00E+00	0.00E+00
SCE1572_10208	sce_9676	0.00E+00	0.00E+00
SCE1572_10210	sce_9675	9.00E-127	9.00E-127
SCE1572_10212	sce_9674	3.00E-129	2.00E-119
SCE1572_10213	sce_9673	4.00E-20	1.00E-17
SCE1572_10214	sce_9672	1.00E-143	9.00E-153
SCE1572_10216	sce_9670	4.00E-26	4.00E-25
SCE1572_10217	sce_9669	0.00E+00	0.00E+00
SCE1572_10218	sce_9668	0.00E+00	0.00E+00
SCE1572_10219	sce_9667	0.00E+00	0.00E+00
SCE1572_1022	sce_6293	8.00E-39	3.00E-40
SCE1572_10220	sce_9666	0.00E+00	0.00E+00
SCE1572_10221	sce_2358	0.00E+00	0.00E+00
SCE1572_10222	sce_9656	9.00E-118	7.00E-126
SCE1572_10223	sce_9655	0.00E+00	0.00E+00
SCE1572_10231	sce_7445	6.00E-98	4.00E-84
SCE1572_10231	sce_4534	6.00E-98	4.00E-84
SCE1572_10235	sce_7404	0.00E+00	0.00E+00
SCE1572_10239	sce_6868	8.00E-132	6.00E-129
SCE1572_10242	sce_1432	1.00E-89	8.00E-88
SCE1572_10245	sce_6866	2.00E-86	2.00E-86
SCE1572_10248	sce_7083	2.00E-55	9.00E-56
SCE1572_10250	sce_5192	6.00E-122	8.00E-117
SCE1572_10256	sce_1659	8.00E-172	6.00E-161
SCE1572_10257	sce_8036	0.00E+00	2.00E-180
SCE1572_10257	sce_6864	0.00E+00	5.00E-178
SCE1572_10259	sce_9277	3.00E-14	1.00E-08
SCE1572_10260	sce_9652	5.00E-76	9.00E-77
SCE1572_10261	sce_9651	0.00E+00	0.00E+00
SCE1572_10262	sce_9650	0.00E+00	0.00E+00
SCE1572_10265	sce_9648	6.00E-85	1.00E-84
SCE1572_10266	sce_9647	4.00E-110	2.00E-114
SCE1572_10267	sce_9646	0.00E+00	0.00E+00
SCE1572_10268	sce_9645	0.00E+00	0.00E+00
SCE1572_10269	sce_9644	9.00E-127	2.00E-125
SCE1572_10270	sce_2619	3.00E-34	2.00E-37
SCE1572_10271	sce_9643	4.00E-147	2.00E-154
SCE1572_10272	sce_9642	0.00E+00	0.00E+00
SCE1572_10273	sce_9641	9.00E-100	5.00E-96
SCE1572_10274	sce_9639	1.00E-174	1.00E-175
SCE1572_10275	sce_9638	3.00E-136	3.00E-136
SCE1572_10276	sce_9637	4.00E-167	3.00E-167
SCE1572_10277	sce_9636	6.00E-177	0.00E+00
SCE1572_10278	sce_9635	1.00E-158	3.00E-150
SCE1572_10279	sce_9634	3.00E-84	5.00E-83

SCE1572_10280	sce_9633	0.00E+00	0.00E+00
SCE1572_10281	sce_9631	1.00E-68	3.00E-69
SCE1572_10282	sce_9630	2.00E-38	4.00E-38
SCE1572_10283	sce_9629	9.00E-141	3.00E-133
SCE1572_10284	sce_9628	1.00E-106	5.00E-108
SCE1572_10285	sce_9627	8.00E-65	1.00E-82
SCE1572_10286	sce_9626	1.00E-109	9.00E-110
SCE1572_10287	sce_9625	0.00E+00	0.00E+00
SCE1572_10287	sce_5292	0.00E+00	0.00E+00
SCE1572_10287	sce_5639	0.00E+00	0.00E+00
SCE1572_10287	sce_6281	0.00E+00	0.00E+00
SCE1572_10288	sce_9624	0.00E+00	0.00E+00
SCE1572_10289	sce_9623	4.00E-58	2.00E-58
SCE1572_10290	sce_9622	5.00E-75	2.00E-62
SCE1572_10291	sce_9621	7.00E-63	7.00E-63
SCE1572_10292	sce_9620	4.00E-54	4.00E-54
SCE1572_10294	sce_9619	0.00E+00	0.00E+00
SCE1572_10295	sce_9617	2.00E-134	1.00E-142
SCE1572_10296	sce_9616	1.00E-63	1.00E-56
SCE1572_10297	sce_9615	1.00E-140	1.00E-140
SCE1572_10298	sce_9614	5.00E-138	4.00E-132
SCE1572_10299	sce_9613	9.00E-142	1.00E-143
SCE1572_103	sce_89	2.00E-120	2.00E-122
SCE1572_1030	sce_6285	7.00E-57	1.00E-65
SCE1572_10300	sce_9612	7.00E-77	4.00E-64
SCE1572_10301	sce_9611	0.00E+00	0.00E+00
SCE1572_10301	sce_9956	0.00E+00	0.00E+00
SCE1572_10302	sce_9610	2.00E-37	1.00E-51
SCE1572_10303	sce_9609	0.00E+00	0.00E+00
SCE1572_10304	sce_9607	0.00E+00	0.00E+00
SCE1572_10304	sce_4238	0.00E+00	0.00E+00
SCE1572_10305	sce_9606	1.00E-139	8.00E-145
SCE1572_10306	sce_9605	2.00E-57	4.00E-57
SCE1572_10307	sce_9604	2.00E-46	2.00E-55
SCE1572_10308	sce_9603	3.00E-88	6.00E-88
SCE1572_10309	sce_9602	3.00E-61	1.00E-62
SCE1572_10311	sce_9601	5.00E-70	9.00E-90
SCE1572_10312	sce_9600	0.00E+00	0.00E+00
SCE1572_10313	sce_9007	9.00E-69	6.00E-62
SCE1572_10314	sce_9008	7.00E-32	2.00E-39
SCE1572_10315	sce_9009	3.00E-26	3.00E-26
SCE1572_10317	sce_9010	3.00E-127	3.00E-133
SCE1572_10318	sce_9011	0.00E+00	0.00E+00
SCE1572_10319	sce_9012	4.00E-149	3.00E-160
SCE1572_10320	sce_9013	2.00E-55	4.00E-57
SCE1572_10321	sce_9015	2.00E-63	6.00E-62
SCE1572_10322	sce_9016	5.00E-18	3.00E-16
SCE1572_10323	sce_9017	3.00E-121	6.00E-138
SCE1572_10325	sce_9018	0.00E+00	0.00E+00
SCE1572_10326	sce_9019	6.00E-32	1.00E-26
SCE1572_10329	sce_9020	1.00E-98	1.00E-98
SCE1572_1033	sce_9382	9.00E-53	7.00E-49
SCE1572_10331	sce_9022	0.00E+00	0.00E+00
SCE1572_10332	sce_9023	0.00E+00	0.00E+00
SCE1572_10335	sce_9025	6.00E-49	5.00E-37
SCE1572_10336	sce_9027	7.00E-124	2.00E-127
SCE1572_10338	sce_1108	0.00E+00	0.00E+00
SCE1572_10338	sce_9028	0.00E+00	0.00E+00
SCE1572_10339	sce_9029	5.00E-68	4.00E-68
SCE1572_1034	sce_778	0.00E+00	0.00E+00
SCE1572_10340	sce_9030	0.00E+00	0.00E+00
SCE1572_10341	sce_9031	6.00E-90	1.00E-75
SCE1572_10342	sce_9032	0.00E+00	2.00E-154
SCE1572_10343	sce_9033	2.00E-148	2.00E-139
SCE1572_10344	sce_9034	1.00E-167	2.00E-169
SCE1572_10345	sce_9035	1.00E-134	1.00E-133
SCE1572_10346	sce_9037	0.00E+00	0.00E+00
SCE1572_10347	sce_9038	0.00E+00	0.00E+00
SCE1572_1035	sce_10117	0.00E+00	0.00E+00
SCE1572_10353	sce_8066	1.00E-13	7.00E-24
SCE1572_10354	sce_9218	3.00E-25	3.00E-25
SCE1572_1036	sce_7392	9.00E-19	4.00E-18
SCE1572_10367	sce_4494	0.00E+00	0.00E+00
SCE1572_10368	sce_9055	1.00E-45	1.00E-49
SCE1572_10369	sce_9056	0.00E+00	0.00E+00
SCE1572_10370	sce_9057	0.00E+00	0.00E+00

SCE1572_10371	sce_9058	3.00E-134	4.00E-155
SCE1572_10372	sce_9059	1.00E-82	2.00E-85
SCE1572_10373	sce_9061	0.00E+00	0.00E+00
SCE1572_10374	sce_9062	2.00E-50	2.00E-51
SCE1572_10375	sce_9065	4.00E-103	1.00E-103
SCE1572_10376	sce_9066	5.00E-159	6.00E-159
SCE1572_10378	sce_9067	0.00E+00	0.00E+00
SCE1572_1038	sce_6088	1.00E-12	3.00E-16
SCE1572_10380	sce_9069	0.00E+00	0.00E+00
SCE1572_10381	sce_9070	0.00E+00	0.00E+00
SCE1572_10382	sce_9071	4.00E-114	2.00E-99
SCE1572_10383	sce_9072	4.00E-132	3.00E-121
SCE1572_10384	sce_9073	2.00E-69	5.00E-81
SCE1572_10385	sce_9074	2.00E-131	9.00E-140
SCE1572_10386	sce_9075	0.00E+00	0.00E+00
SCE1572_10391	sce_9046	1.00E-146	7.00E-145
SCE1572_10393	sce_3027	0.00E+00	0.00E+00
SCE1572_10394	sce_9047	9.00E-09	9.00E-09
SCE1572_10397	sce_9216	2.00E-131	3.00E-141
SCE1572_10398	sce_9215	0.00E+00	0.00E+00
SCE1572_10399	sce_9214	0.00E+00	0.00E+00
SCE1572_104	sce_90	3.00E-41	4.00E-71
SCE1572_1040	sce_775	2.00E-51	3.00E-52
SCE1572_10400	sce_9209	6.00E-172	6.00E-172
SCE1572_10402	sce_2173	2.00E-13	1.00E-11
SCE1572_10435	sce_9076	6.00E-107	1.00E-101
SCE1572_10436	sce_9077	5.00E-139	2.00E-144
SCE1572_10437	sce_9078	2.00E-121	3.00E-119
SCE1572_10438	sce_9079	5.00E-48	2.00E-55
SCE1572_10439	sce_9080	7.00E-124	7.00E-124
SCE1572_1044	sce_780	1.00E-54	1.00E-54
SCE1572_10441	sce_9082	1.00E-44	7.00E-29
SCE1572_10442	sce_9083	0.00E+00	0.00E+00
SCE1572_10443	sce_9084	2.00E-92	4.00E-110
SCE1572_10444	sce_9085	0.00E+00	0.00E+00
SCE1572_10446	sce_9086	5.00E-68	7.00E-80
SCE1572_10447	sce_9087	0.00E+00	0.00E+00
SCE1572_10448	sce_9088	5.00E-89	5.00E-89
SCE1572_10449	sce_9089	0.00E+00	0.00E+00
SCE1572_1045	sce_781	7.00E-66	1.00E-66
SCE1572_10451	sce_9093	8.00E-35	1.00E-34
SCE1572_10452	sce_9094	2.00E-121	4.00E-112
SCE1572_10453	sce_9095	3.00E-175	8.00E-178
SCE1572_10455	sce_9096	8.00E-150	4.00E-162
SCE1572_10456	sce_9097	3.00E-59	1.00E-67
SCE1572_10459	sce_9098	7.00E-65	5.00E-68
SCE1572_1046	sce_782	0.00E+00	0.00E+00
SCE1572_10460	sce_9099	5.00E-148	4.00E-153
SCE1572_10461	sce_9100	0.00E+00	0.00E+00
SCE1572_10462	sce_9101	0.00E+00	0.00E+00
SCE1572_10463	sce_9102	0.00E+00	0.00E+00
SCE1572_10464	sce_9103	5.00E-96	1.00E-80
SCE1572_10465	sce_9104	1.00E-58	4.00E-67
SCE1572_10466	sce_9105	0.00E+00	0.00E+00
SCE1572_10469	sce_9115	4.00E-90	2.00E-93
SCE1572_1047	sce_784	1.00E-125	8.00E-129
SCE1572_10471	sce_9116	0.00E+00	0.00E+00
SCE1572_10472	sce_9117	0.00E+00	0.00E+00
SCE1572_10473	sce_9118	3.00E-174	0.00E+00
SCE1572_10474	sce_9119	0.00E+00	0.00E+00
SCE1572_10475	sce_9120	0.00E+00	0.00E+00
SCE1572_10476	sce_9121	2.00E-124	2.00E-124
SCE1572_10477	sce_9122	1.00E-50	1.00E-50
SCE1572_10478	sce_9123	2.00E-82	7.00E-82
SCE1572_10479	sce_9124	2.00E-68	6.00E-69
SCE1572_1048	sce_785	4.00E-97	7.00E-102
SCE1572_10480	sce_9125	2.00E-41	1.00E-35
SCE1572_10481	sce_9126	9.00E-144	4.00E-134
SCE1572_10482	sce_9127	9.00E-69	1.00E-63
SCE1572_10483	sce_9128	3.00E-99	8.00E-89
SCE1572_10484	sce_9129	2.00E-163	2.00E-165
SCE1572_10485	sce_9130	0.00E+00	0.00E+00
SCE1572_10486	sce_9131	0.00E+00	5.00E-163
SCE1572_10487	sce_9133	0.00E+00	0.00E+00
SCE1572_10488	sce_9135	0.00E+00	0.00E+00
SCE1572_10489	sce_9136	0.00E+00	0.00E+00

SCE1572_1049	sce_786	4.00E-40	4.00E-40
SCE1572_10490	sce_9137	2.00E-118	3.00E-117
SCE1572_10491	sce_9138	1.00E-167	6.00E-160
SCE1572_10492	sce_9140	1.00E-65	9.00E-69
SCE1572_10493	sce_9141	0.00E+00	0.00E+00
SCE1572_10494	sce_9142	0.00E+00	0.00E+00
SCE1572_10495	sce_9143	0.00E+00	0.00E+00
SCE1572_10496	sce_9144	2.00E-58	2.00E-58
SCE1572_10497	sce_9145	2.00E-134	2.00E-134
SCE1572_10498	sce_9146	3.00E-179	4.00E-174
SCE1572_10499	sce_9147	3.00E-69	3.00E-69
SCE1572_105	sce_91	2.00E-21	2.00E-21
SCE1572_10500	sce_9148	6.00E-94	5.00E-86
SCE1572_10501	sce_9149	1.00E-45	1.00E-45
SCE1572_10502	sce_9150	0.00E+00	0.00E+00
SCE1572_10503	sce_9151	4.00E-75	2.00E-71
SCE1572_10504	sce_9152	2.00E-102	2.00E-102
SCE1572_10507	sce_9156	3.00E-84	3.00E-84
SCE1572_10508	sce_9157	2.00E-73	2.00E-73
SCE1572_10509	sce_9159	3.00E-60	5.00E-68
SCE1572_1051	sce_3616	6.00E-131	1.00E-137
SCE1572_10510	sce_9160	1.00E-142	4.00E-164
SCE1572_10516	sce_2347	1.00E-13	4.00E-13
SCE1572_10518	sce_2335	5.00E-10	1.00E-12
SCE1572_10519	sce_2334	5.00E-21	1.00E-20
SCE1572_1052	sce_8827	0.00E+00	0.00E+00
SCE1572_10520	sce_2333	2.00E-30	2.00E-38
SCE1572_10521	sce_2332	5.00E-28	1.00E-27
SCE1572_10522	sce_2331	6.00E-14	2.00E-11
SCE1572_10524	sce_2329	6.00E-27	4.00E-27
SCE1572_10526	sce_2327	1.00E-10	1.00E-10
SCE1572_10527	sce_2326	1.00E-18	1.00E-18
SCE1572_10529	sce_2324	6.00E-65	4.00E-65
SCE1572_1053	sce_8826	2.00E-109	8.00E-118
SCE1572_10534	sce_2320	8.00E-52	9.00E-52
SCE1572_1054	sce_8825	2.00E-177	2.00E-177
SCE1572_1055	sce_4687	0.00E+00	0.00E+00
SCE1572_1056	sce_778	0.00E+00	0.00E+00
SCE1572_10564	sce_9181	2.00E-122	3.00E-124
SCE1572_10565	sce_9180	3.00E-11	2.00E-15
SCE1572_10566	sce_9179	7.00E-52	7.00E-52
SCE1572_10567	sce_9178	5.00E-51	5.00E-51
SCE1572_1057	sce_792	0.00E+00	0.00E+00
SCE1572_1058	sce_793	7.00E-49	3.00E-37
SCE1572_10585	sce_3805	7.00E-47	7.00E-47
SCE1572_10586	sce_3806	6.00E-16	6.00E-16
SCE1572_1059	sce_4898	3.00E-70	3.00E-70
SCE1572_10591	sce_9173	6.00E-08	4.00E-08
SCE1572_10594	sce_7746	0.00E+00	0.00E+00
SCE1572_10595	sce_7745	0.00E+00	0.00E+00
SCE1572_10595	sce_142	0.00E+00	0.00E+00
SCE1572_10595	sce_3777	0.00E+00	0.00E+00
SCE1572_10596	sce_7744	2.00E-107	6.00E-112
SCE1572_10597	sce_7743	2.00E-38	3.00E-38
SCE1572_10600	sce_7488	3.00E-15	5.00E-11
SCE1572_10604	sce_9219	0.00E+00	2.00E-180
SCE1572_10607	sce_9220	1.00E-96	1.00E-96
SCE1572_10608	sce_9221	1.00E-131	8.00E-129
SCE1572_10609	sce_9222	0.00E+00	0.00E+00
SCE1572_10609	sce_1814	0.00E+00	0.00E+00
SCE1572_10609	sce_3148	0.00E+00	0.00E+00
SCE1572_1061	sce_794	2.00E-151	3.00E-150
SCE1572_10610	sce_9042	2.00E-28	2.00E-28
SCE1572_10615	sce_9224	1.00E-164	6.00E-162
SCE1572_10616	sce_9225	2.00E-85	1.00E-83
SCE1572_10620	sce_9228	0.00E+00	0.00E+00
SCE1572_10621	sce_9229	0.00E+00	0.00E+00
SCE1572_10622	sce_9230	0.00E+00	0.00E+00
SCE1572_10622	sce_9231	0.00E+00	0.00E+00
SCE1572_10622	sce_389	0.00E+00	0.00E+00
SCE1572_10623	sce_9231	0.00E+00	0.00E+00
SCE1572_10623	sce_9237	0.00E+00	0.00E+00
SCE1572_10623	sce_9230	0.00E+00	0.00E+00
SCE1572_10624	sce_9232	5.00E-136	5.00E-138
SCE1572_10625	sce_9233	2.00E-34	2.00E-34
SCE1572_10626	sce_9234	0.00E+00	0.00E+00

SCE1572_10627	sce_9235	0.00E+00	0.00E+00
SCE1572_10628	sce_9236	0.00E+00	0.00E+00
SCE1572_10628	sce_389	0.00E+00	0.00E+00
SCE1572_10629	sce_9237	0.00E+00	0.00E+00
SCE1572_10629	sce_9231	0.00E+00	0.00E+00
SCE1572_10629	sce_2666	0.00E+00	0.00E+00
SCE1572_10629	sce_389	0.00E+00	0.00E+00
SCE1572_10629	sce_7637	0.00E+00	0.00E+00
SCE1572_10633	sce_9240	0.00E+00	0.00E+00
SCE1572_10634	sce_9238	0.00E+00	0.00E+00
SCE1572_10634	sce_4347	0.00E+00	0.00E+00
SCE1572_10635	sce_9239	5.00E-162	5.00E-180
SCE1572_10637	sce_9241	9.00E-06	1.00E-12
SCE1572_10638	sce_9242	5.00E-15	3.00E-13
SCE1572_10639	sce_9244	0.00E+00	0.00E+00
SCE1572_10640	sce_9245	0.00E+00	0.00E+00
SCE1572_10641	sce_9246	8.00E-150	1.00E-161
SCE1572_10642	sce_9247	0.00E+00	0.00E+00
SCE1572_10643	sce_9248	5.00E-157	6.00E-157
SCE1572_10644	sce_9249	2.00E-173	1.00E-173
SCE1572_10645	sce_9250	7.00E-147	9.00E-146
SCE1572_10646	sce_9251	2.00E-119	1.00E-131
SCE1572_10647	sce_9252	2.00E-91	2.00E-91
SCE1572_10648	sce_9253	1.00E-160	1.00E-158
SCE1572_1065	sce_9451	2.00E-117	2.00E-117
SCE1572_10650	sce_9254	3.00E-57	3.00E-57
SCE1572_10651	sce_9255	0.00E+00	0.00E+00
SCE1572_10652	sce_9256	9.00E-97	1.00E-104
SCE1572_10653	sce_9257	0.00E+00	0.00E+00
SCE1572_10654	sce_9258	0.00E+00	5.00E-175
SCE1572_10655	sce_9259	1.00E-34	1.00E-34
SCE1572_10656	sce_9260	0.00E+00	0.00E+00
SCE1572_10657	sce_9261	4.00E-166	5.00E-166
SCE1572_10658	sce_9263	8.00E-41	9.00E-37
SCE1572_10659	sce_9264	0.00E+00	0.00E+00
SCE1572_1066	sce_9453	2.00E-120	2.00E-119
SCE1572_10660	sce_9265	7.00E-61	2.00E-61
SCE1572_10661	sce_9266	0.00E+00	0.00E+00
SCE1572_10662	sce_9267	0.00E+00	0.00E+00
SCE1572_10663	sce_9271	0.00E+00	0.00E+00
SCE1572_10664	sce_9272	6.00E-123	6.00E-123
SCE1572_10665	sce_9273	9.00E-132	1.00E-131
SCE1572_10666	sce_9274	8.00E-160	4.00E-160
SCE1572_10667	sce_9275	4.00E-121	2.00E-92
SCE1572_10669	sce_9279	2.00E-149	2.00E-149
SCE1572_1067	sce_9454	0.00E+00	0.00E+00
SCE1572_10671	sce_9283	7.00E-35	1.00E-55
SCE1572_10672	sce_9284	1.00E-109	2.00E-99
SCE1572_10673	sce_9285	0.00E+00	0.00E+00
SCE1572_10674	sce_9286	4.00E-115	1.00E-115
SCE1572_10675	sce_9287	0.00E+00	0.00E+00
SCE1572_10676	sce_9288	1.00E-143	2.00E-149
SCE1572_10677	sce_9289	1.00E-59	1.00E-64
SCE1572_10678	sce_9290	1.00E-137	3.00E-137
SCE1572_10679	sce_9291	0.00E+00	0.00E+00
SCE1572_10681	sce_9292	3.00E-110	1.00E-110
SCE1572_10682	sce_9293	1.00E-102	9.00E-91
SCE1572_10683	sce_9294	5.00E-149	2.00E-146
SCE1572_10685	sce_9295	0.00E+00	0.00E+00
SCE1572_10686	sce_9296	0.00E+00	0.00E+00
SCE1572_10687	sce_9297	3.00E-40	3.00E-40
SCE1572_10688	sce_9298	9.00E-116	9.00E-116
SCE1572_10692	sce_9299	7.00E-94	3.00E-96
SCE1572_10693	sce_9300	0.00E+00	0.00E+00
SCE1572_10695	sce_9306	7.00E-89	7.00E-89
SCE1572_10696	sce_9307	2.00E-136	5.00E-61
SCE1572_10697	sce_9308	0.00E+00	0.00E+00
SCE1572_10698	sce_9309	1.00E-92	5.00E-78
SCE1572_10699	sce_9310	7.00E-130	2.00E-118
SCE1572_107	sce_95	2.00E-107	2.00E-107
SCE1572_10702	sce_9311	4.00E-33	4.00E-36
SCE1572_10703	sce_9312	1.00E-140	2.00E-144
SCE1572_10704	sce_9313	1.00E-80	1.00E-71
SCE1572_10710	sce_9505	1.00E-83	4.00E-76
SCE1572_10711	sce_9314	7.00E-90	8.00E-77
SCE1572_10712	sce_9315	0.00E+00	0.00E+00

SCE1572_10713	sce_9316	1.00E-86	1.00E-86
SCE1572_10717	sce_9370	3.00E-120	4.00E-118
SCE1572_10718	sce_9378	3.00E-31	2.00E-42
SCE1572_10719	sce_9379	0.00E+00	0.00E+00
SCE1572_1072	sce_795	0.00E+00	0.00E+00
SCE1572_10725	sce_9383	5.00E-143	8.00E-149
SCE1572_10728	sce_9384	5.00E-100	5.00E-100
SCE1572_10729	sce_9385	8.00E-111	3.00E-113
SCE1572_10730	sce_9387	7.00E-102	3.00E-100
SCE1572_10731	sce_9388	1.00E-31	8.00E-22
SCE1572_10732	sce_9390	0.00E+00	0.00E+00
SCE1572_10733	sce_9391	1.00E-39	8.00E-38
SCE1572_10735	sce_9393	3.00E-83	7.00E-80
SCE1572_10736	sce_9394	0.00E+00	0.00E+00
SCE1572_10737	sce_9395	0.00E+00	0.00E+00
SCE1572_10738	sce_9396	0.00E+00	0.00E+00
SCE1572_10745	sce_10010	1.00E-91	1.00E-91
SCE1572_10747	sce_9992	6.00E-139	4.00E-156
SCE1572_10748	sce_9993	5.00E-92	1.00E-124
SCE1572_10749	sce_10027	3.00E-158	3.00E-158
SCE1572_10750	sce_10004	1.00E-65	1.00E-65
SCE1572_10751	sce_827	0.00E+00	0.00E+00
SCE1572_10752	sce_5142	1.00E-113	3.00E-114
SCE1572_10753	sce_6048	0.00E+00	0.00E+00
SCE1572_10754	sce_1347	1.00E-74	2.00E-83
SCE1572_10755	sce_10007	0.00E+00	0.00E+00
SCE1572_10756	sce_9959	0.00E+00	0.00E+00
SCE1572_10757	sce_9958	0.00E+00	0.00E+00
SCE1572_10758	sce_10009	7.00E-47	2.00E-49
SCE1572_10762	sce_10003	0.00E+00	0.00E+00
SCE1572_10765	sce_10018	0.00E+00	0.00E+00
SCE1572_10767	sce_10013	3.00E-171	2.00E-159
SCE1572_10768	sce_8396	8.00E-28	7.00E-28
SCE1572_10769	sce_8395	1.00E-33	1.00E-33
SCE1572_1077	sce_5210	1.00E-105	5.00E-82
SCE1572_10772	sce_10029	7.00E-83	1.00E-75
SCE1572_10773	sce_10030	9.00E-81	5.00E-81
SCE1572_10774	sce_10031	2.00E-93	1.00E-93
SCE1572_10776	sce_9407	0.00E+00	0.00E+00
SCE1572_10776	sce_3765	0.00E+00	0.00E+00
SCE1572_10776	sce_8451	0.00E+00	0.00E+00
SCE1572_10776	sce_4817	0.00E+00	0.00E+00
SCE1572_10777	sce_9040	4.00E-162	5.00E-160
SCE1572_10778	sce_2922	0.00E+00	0.00E+00
SCE1572_1078	sce_5665	9.00E-177	9.00E-177
SCE1572_10782	sce_9409	4.00E-132	8.00E-155
SCE1572_10783	sce_9410	0.00E+00	0.00E+00
SCE1572_10784	sce_9411	0.00E+00	0.00E+00
SCE1572_10785	sce_9412	0.00E+00	0.00E+00
SCE1572_10787	sce_9413	7.00E-176	7.00E-174
SCE1572_10789	sce_9414	7.00E-73	4.00E-73
SCE1572_10790	sce_9415	5.00E-110	2.00E-110
SCE1572_10791	sce_9416	9.00E-169	2.00E-159
SCE1572_10792	sce_9417	0.00E+00	0.00E+00
SCE1572_10793	sce_9418	4.00E-97	7.00E-105
SCE1572_10794	sce_9419	9.00E-61	5.00E-57
SCE1572_10795	sce_9420	1.00E-12	1.00E-12
SCE1572_10797	sce_9422	3.00E-149	3.00E-158
SCE1572_10798	sce_9424	1.00E-56	1.00E-56
SCE1572_108	sce_96	0.00E+00	0.00E+00
SCE1572_1080	sce_796	6.00E-70	2.00E-64
SCE1572_10802	sce_9425	0.00E+00	0.00E+00
SCE1572_10805	sce_4489	8.00E-140	3.00E-148
SCE1572_10807	sce_2093	0.00E+00	0.00E+00
SCE1572_10808	sce_9441	3.00E-41	2.00E-37
SCE1572_1081	sce_798	4.00E-44	4.00E-48
SCE1572_10810	sce_9443	2.00E-55	1.00E-55
SCE1572_10812	sce_9444	9.00E-49	3.00E-51
SCE1572_10813	sce_9446	2.00E-22	4.00E-22
SCE1572_10814	sce_9447	4.00E-174	7.00E-174
SCE1572_10815	sce_9448	3.00E-158	6.00E-169
SCE1572_10816	sce_9449	5.00E-84	7.00E-90
SCE1572_10817	sce_2995	0.00E+00	0.00E+00
SCE1572_10818	sce_2996	0.00E+00	0.00E+00
SCE1572_10819	sce_2998	0.00E+00	0.00E+00
SCE1572_1082	sce_799	3.00E-95	1.00E-107

SCE1572_10820	sce_9459	8.00E-84	8.00E-84
SCE1572_10822	sce_9460	2.00E-113	2.00E-124
SCE1572_10823	sce_6965	1.00E-139	1.00E-132
SCE1572_10824	sce_8729	3.00E-45	3.00E-45
SCE1572_10825	sce_8728	5.00E-52	3.00E-63
SCE1572_10827	sce_3440	1.00E-155	4.00E-148
SCE1572_10828	sce_3441	2.00E-58	2.00E-58
SCE1572_1083	sce_800	1.00E-54	2.00E-54
SCE1572_10830	sce_3442	0.00E+00	0.00E+00
SCE1572_10831	sce_2163	1.00E-160	3.00E-156
SCE1572_10834	sce_1601	0.00E+00	0.00E+00
SCE1572_10834	sce_6742	0.00E+00	0.00E+00
SCE1572_10838	sce_9473	1.00E-174	0.00E+00
SCE1572_1084	sce_801	2.00E-133	3.00E-112
SCE1572_10840	sce_5249	2.00E-23	2.00E-23
SCE1572_10841	sce_9475	3.00E-113	6.00E-120
SCE1572_10842	sce_9476	2.00E-26	4.00E-27
SCE1572_10846	sce_1385	0.00E+00	0.00E+00
SCE1572_10847	sce_1384	0.00E+00	0.00E+00
SCE1572_10848	sce_1383	5.00E-175	0.00E+00
SCE1572_10849	sce_1382	1.00E-153	5.00E-159
SCE1572_10850	sce_1381	5.00E-161	2.00E-166
SCE1572_10852	sce_2474	6.00E-179	6.00E-179
SCE1572_10853	sce_2473	1.00E-123	1.00E-110
SCE1572_10854	sce_2472	6.00E-144	2.00E-161
SCE1572_10855	sce_2471	0.00E+00	0.00E+00
SCE1572_10856	sce_2470	2.00E-155	8.00E-163
SCE1572_10857	sce_5146	1.00E-154	3.00E-155
SCE1572_10858	sce_9486	0.00E+00	0.00E+00
SCE1572_10859	sce_9487	0.00E+00	0.00E+00
SCE1572_1086	sce_802	0.00E+00	0.00E+00
SCE1572_10860	sce_9488	6.00E-57	6.00E-57
SCE1572_10861	sce_9489	0.00E+00	0.00E+00
SCE1572_10862	sce_9491	0.00E+00	0.00E+00
SCE1572_10863	sce_9492	5.00E-130	4.00E-120
SCE1572_10865	sce_3077	1.00E-68	2.00E-68
SCE1572_10867	sce_9494	6.00E-69	6.00E-74
SCE1572_10868	sce_9495	0.00E+00	0.00E+00
SCE1572_10869	sce_9496	0.00E+00	0.00E+00
SCE1572_10871	sce_3937	0.00E+00	0.00E+00
SCE1572_10871	sce_8592	0.00E+00	0.00E+00
SCE1572_10879	sce_9509	2.00E-170	1.00E-172
SCE1572_10880	sce_9510	0.00E+00	0.00E+00
SCE1572_10882	sce_9511	1.00E-141	8.00E-145
SCE1572_10883	sce_9512	3.00E-23	1.00E-23
SCE1572_10884	sce_9513	6.00E-103	3.00E-114
SCE1572_10885	sce_9514	0.00E+00	0.00E+00
SCE1572_10886	sce_9515	2.00E-158	3.00E-142
SCE1572_10887	sce_9517	5.00E-134	2.00E-128
SCE1572_10889	sce_9521	0.00E+00	0.00E+00
SCE1572_10890	sce_9522	1.00E-71	6.00E-90
SCE1572_10892	sce_9524	7.00E-154	7.00E-172
SCE1572_10893	sce_9525	9.00E-173	1.00E-180
SCE1572_10894	sce_9529	2.00E-52	4.00E-44
SCE1572_10897	sce_9530	2.00E-99	5.00E-99
SCE1572_10898	sce_9531	1.00E-74	3.00E-79
SCE1572_109	sce_97	2.00E-121	7.00E-130
SCE1572_10901	sce_9534	2.00E-168	9.00E-159
SCE1572_10904	sce_9537	5.00E-81	7.00E-84
SCE1572_10905	sce_9539	4.00E-96	4.00E-96
SCE1572_10906	sce_9540	1.00E-20	9.00E-25
SCE1572_10907	sce_9541	0.00E+00	0.00E+00
SCE1572_10908	sce_9542	4.00E-111	1.00E-111
SCE1572_10912	sce_9548	0.00E+00	0.00E+00
SCE1572_10913	sce_9550	3.00E-30	3.00E-30
SCE1572_10914	sce_8717	5.00E-161	4.00E-168
SCE1572_10916	sce_9551	0.00E+00	0.00E+00
SCE1572_10917	sce_9552	0.00E+00	0.00E+00
SCE1572_10919	sce_9553	1.00E-108	5.00E-107
SCE1572_10920	sce_9554	4.00E-99	2.00E-92
SCE1572_10921	sce_8693	6.00E-51	7.00E-48
SCE1572_10922	sce_9555	6.00E-140	8.00E-154
SCE1572_10923	sce_9556	3.00E-125	5.00E-128
SCE1572_10924	sce_9557	0.00E+00	0.00E+00
SCE1572_10924	sce_10204	0.00E+00	0.00E+00
SCE1572_10924	sce_5835	0.00E+00	0.00E+00

SCE1572_10924	sce_388	0.00E+00	0.00E+00
SCE1572_10924	sce_7640	0.00E+00	0.00E+00
SCE1572_10924	sce_4513	0.00E+00	0.00E+00
SCE1572_10924	sce_6535	0.00E+00	0.00E+00
SCE1572_10924	sce_3003	0.00E+00	0.00E+00
SCE1572_10924	sce_9920	0.00E+00	0.00E+00
SCE1572_10924	sce_3085	0.00E+00	0.00E+00
SCE1572_10924	sce_7661	0.00E+00	0.00E+00
SCE1572_10924	sce_7109	0.00E+00	0.00E+00
SCE1572_10924	sce_3917	0.00E+00	0.00E+00
SCE1572_10924	sce_6107	0.00E+00	0.00E+00
SCE1572_10924	sce_6095	0.00E+00	0.00E+00
SCE1572_10924	sce_6093	0.00E+00	0.00E+00
SCE1572_10924	sce_6092	0.00E+00	0.00E+00
SCE1572_10924	sce_6094	0.00E+00	0.00E+00
SCE1572_10924	sce_8618	0.00E+00	0.00E+00
SCE1572_10924	sce_2065	0.00E+00	0.00E+00
SCE1572_10927	sce_9558	0.00E+00	0.00E+00
SCE1572_10928	sce_9559	4.00E-164	0.00E+00
SCE1572_10929	sce_2568	2.00E-16	5.00E-12
SCE1572_10940	sce_8783	4.00E-52	2.00E-52
SCE1572_10941	sce_6032	1.00E-14	3.00E-22
SCE1572_10947	sce_9423	7.00E-38	2.00E-45
SCE1572_10949	sce_9560	3.00E-49	3.00E-49
SCE1572_1095	sce_5295	2.00E-64	2.00E-60
SCE1572_10951	sce_9561	0.00E+00	0.00E+00
SCE1572_10955	sce_9564	0.00E+00	0.00E+00
SCE1572_10956	sce_9569	2.00E-131	4.00E-130
SCE1572_10957	sce_9570	1.00E-67	9.00E-64
SCE1572_10958	sce_9572	7.00E-153	3.00E-159
SCE1572_10959	sce_9573	0.00E+00	0.00E+00
SCE1572_10960	sce_9574	1.00E-53	6.00E-57
SCE1572_10961	sce_9575	2.00E-51	2.00E-54
SCE1572_10964	sce_9678	0.00E+00	0.00E+00
SCE1572_10965	sce_9679	0.00E+00	0.00E+00
SCE1572_10966	sce_9680	6.00E-63	1.00E-61
SCE1572_10967	sce_9681	8.00E-91	2.00E-91
SCE1572_10968	sce_9682	4.00E-97	1.00E-97
SCE1572_10969	sce_9683	0.00E+00	0.00E+00
SCE1572_10970	sce_9684	0.00E+00	0.00E+00
SCE1572_10971	sce_9685	3.00E-18	8.00E-11
SCE1572_10972	sce_9686	7.00E-155	3.00E-148
SCE1572_10973	sce_9687	0.00E+00	0.00E+00
SCE1572_10973	sce_9694	0.00E+00	0.00E+00
SCE1572_10975	sce_9696	2.00E-41	2.00E-41
SCE1572_10976	sce_9697	2.00E-10	4.00E-15
SCE1572_10977	sce_9698	2.00E-63	2.00E-62
SCE1572_10978	sce_9699	4.00E-80	3.00E-80
SCE1572_10979	sce_9701	0.00E+00	0.00E+00
SCE1572_1098	sce_3750	0.00E+00	0.00E+00
SCE1572_1098	sce_5229	0.00E+00	0.00E+00
SCE1572_1098	sce_6712	0.00E+00	0.00E+00
SCE1572_1098	sce_5226	0.00E+00	0.00E+00
SCE1572_10980	sce_9702	1.00E-110	9.00E-107
SCE1572_10981	sce_9703	0.00E+00	0.00E+00
SCE1572_10982	sce_9704	1.00E-130	1.00E-130
SCE1572_10983	sce_9705	0.00E+00	0.00E+00
SCE1572_10984	sce_9706	0.00E+00	0.00E+00
SCE1572_10985	sce_9707	3.00E-38	3.00E-38
SCE1572_10986	sce_9708	1.00E-175	1.00E-163
SCE1572_10987	sce_9709	2.00E-110	4.00E-113
SCE1572_10988	sce_9710	4.00E-69	1.00E-61
SCE1572_10989	sce_9711	4.00E-165	5.00E-153
SCE1572_10990	sce_9712	4.00E-45	4.00E-45
SCE1572_10991	sce_9713	3.00E-124	6.00E-136
SCE1572_10992	sce_9714	3.00E-34	1.00E-21
SCE1572_10994	sce_9715	8.00E-97	9.00E-109
SCE1572_10995	sce_9716	0.00E+00	0.00E+00
SCE1572_10997	sce_9718	0.00E+00	0.00E+00
SCE1572_10998	sce_9719	6.00E-88	3.00E-105
SCE1572_10999	sce_9721	1.00E-22	1.00E-22
SCE1572_11	sce_11	4.00E-148	6.00E-152
SCE1572_110	sce_98	0.00E+00	0.00E+00
SCE1572_11000	sce_9722	3.00E-30	4.00E-30
SCE1572_11001	sce_9723	2.00E-36	1.00E-27
SCE1572_11002	sce_9724	1.00E-20	2.00E-13

SCE1572_11003	sce_9725	8.00E-158	2.00E-154
SCE1572_11004	sce_9726	0.00E+00	0.00E+00
SCE1572_11005	sce_9727	0.00E+00	0.00E+00
SCE1572_11007	sce_9729	0.00E+00	0.00E+00
SCE1572_11009	sce_9730	0.00E+00	0.00E+00
SCE1572_11010	sce_9731	7.00E-142	3.00E-139
SCE1572_11019	sce_9732	1.00E-40	7.00E-30
SCE1572_11020	sce_9733	8.00E-77	4.00E-68
SCE1572_11021	sce_9734	5.00E-118	2.00E-138
SCE1572_11022	sce_9735	0.00E+00	0.00E+00
SCE1572_11022	sce_3075	0.00E+00	0.00E+00
SCE1572_11023	sce_9737	0.00E+00	0.00E+00
SCE1572_11024	sce_9738	2.00E-66	2.00E-66
SCE1572_11025	sce_9739	0.00E+00	0.00E+00
SCE1572_11027	sce_9741	1.00E-54	2.00E-46
SCE1572_11028	sce_9742	4.00E-27	2.00E-19
SCE1572_11029	sce_9743	1.00E-23	7.00E-23
SCE1572_11030	sce_9744	2.00E-72	7.00E-66
SCE1572_11033	sce_9745	6.00E-08	7.00E-07
SCE1572_11034	sce_9746	0.00E+00	0.00E+00
SCE1572_11035	sce_9747	7.00E-80	5.00E-71
SCE1572_11036	sce_9748	7.00E-42	6.00E-42
SCE1572_11037	sce_9749	0.00E+00	0.00E+00
SCE1572_11038	sce_9750	2.00E-15	2.00E-15
SCE1572_11039	sce_9751	0.00E+00	0.00E+00
SCE1572_11040	sce_9752	0.00E+00	0.00E+00
SCE1572_11041	sce_9754	8.00E-26	6.00E-27
SCE1572_11042	sce_9755	5.00E-101	6.00E-101
SCE1572_11043	sce_9757	0.00E+00	0.00E+00
SCE1572_11043	sce_3883	0.00E+00	0.00E+00
SCE1572_11043	sce_5226	0.00E+00	0.00E+00
SCE1572_11043	sce_5403	0.00E+00	0.00E+00
SCE1572_11043	sce_5751	0.00E+00	0.00E+00
SCE1572_11043	sce_9665	0.00E+00	0.00E+00
SCE1572_11043	sce_7154	0.00E+00	0.00E+00
SCE1572_11043	sce_7969	0.00E+00	0.00E+00
SCE1572_11043	sce_9954	0.00E+00	0.00E+00
SCE1572_11043	sce_5746	0.00E+00	0.00E+00
SCE1572_11043	sce_6712	0.00E+00	0.00E+00
SCE1572_11043	sce_2053	0.00E+00	0.00E+00
SCE1572_11043	sce_3750	0.00E+00	0.00E+00
SCE1572_11043	sce_5229	0.00E+00	0.00E+00
SCE1572_11044	sce_7609	7.00E-81	2.00E-75
SCE1572_11046	sce_9758	0.00E+00	0.00E+00
SCE1572_11046	sce_5980	0.00E+00	0.00E+00
SCE1572_11047	sce_9760	6.00E-86	3.00E-85
SCE1572_11048	sce_9761	2.00E-177	0.00E+00
SCE1572_11049	sce_9762	0.00E+00	0.00E+00
SCE1572_11050	sce_9763	2.00E-93	3.00E-87
SCE1572_11051	sce_9765	1.00E-93	1.00E-108
SCE1572_11052	sce_9766	1.00E-150	5.00E-146
SCE1572_11053	sce_9767	0.00E+00	0.00E+00
SCE1572_11054	sce_9771	7.00E-117	2.00E-124
SCE1572_11055	sce_9772	0.00E+00	0.00E+00
SCE1572_11056	sce_9773	6.00E-50	9.00E-50
SCE1572_11062	sce_4581	0.00E+00	0.00E+00
SCE1572_11062	sce_9106	0.00E+00	0.00E+00
SCE1572_11064	sce_9779	0.00E+00	0.00E+00
SCE1572_11066	sce_9780	0.00E+00	0.00E+00
SCE1572_11068	sce_9813	0.00E+00	0.00E+00
SCE1572_11069	sce_9814	0.00E+00	0.00E+00
SCE1572_11070	sce_9815	8.00E-98	1.00E-101
SCE1572_11072	sce_9822	4.00E-122	5.00E-131
SCE1572_11073	sce_9823	4.00E-35	2.00E-28
SCE1572_11074	sce_9824	1.00E-08	2.00E-12
SCE1572_11075	sce_9825	7.00E-42	1.00E-54
SCE1572_11076	sce_9826	2.00E-54	8.00E-74
SCE1572_11077	sce_9827	1.00E-79	1.00E-79
SCE1572_11078	sce_7074	1.00E-09	8.00E-09
SCE1572_11079	sce_9829	2.00E-56	1.00E-45
SCE1572_11080	sce_9830	4.00E-92	1.00E-93
SCE1572_11081	sce_9831	3.00E-167	3.00E-174
SCE1572_11082	sce_9832	6.00E-112	4.00E-119
SCE1572_11083	sce_9833	6.00E-37	3.00E-45
SCE1572_11090	sce_9835	0.00E+00	0.00E+00
SCE1572_11091	sce_9836	8.00E-120	6.00E-122

SCE1572_11093	sce_9837	0.00E+00	0.00E+00
SCE1572_11094	sce_9838	0.00E+00	0.00E+00
SCE1572_11096	sce_9839	2.00E-151	8.00E-157
SCE1572_11097	sce_9840	0.00E+00	0.00E+00
SCE1572_11098	sce_9841	0.00E+00	0.00E+00
SCE1572_11099	sce_9842	3.00E-119	6.00E-123
SCE1572_111	sce_99	5.00E-139	1.00E-149
SCE1572_11102	sce_9843	3.00E-112	2.00E-117
SCE1572_11103	sce_6096	7.00E-52	2.00E-53
SCE1572_11104	sce_6097	1.00E-64	1.00E-71
SCE1572_11105	sce_6098	2.00E-15	1.00E-26
SCE1572_11106	sce_6099	4.00E-79	8.00E-88
SCE1572_11111	sce_311	4.00E-130	2.00E-122
SCE1572_11112	sce_1119	4.00E-54	1.00E-51
SCE1572_11113	sce_9847	0.00E+00	0.00E+00
SCE1572_11114	sce_7062	9.00E-71	2.00E-71
SCE1572_11117	sce_6854	2.00E-54	2.00E-55
SCE1572_11118	sce_8356	0.00E+00	0.00E+00
SCE1572_11119	sce_8357	0.00E+00	0.00E+00
SCE1572_11119	sce_225	0.00E+00	0.00E+00
SCE1572_11119	sce_6235	0.00E+00	0.00E+00
SCE1572_11119	sce_2161	0.00E+00	0.00E+00
SCE1572_11119	sce_5276	0.00E+00	0.00E+00
SCE1572_11120	sce_6777	1.00E-41	2.00E-43
SCE1572_11121	sce_6778	6.00E-85	6.00E-85
SCE1572_11123	sce_1320	0.00E+00	0.00E+00
SCE1572_11125	sce_3466	2.00E-61	1.00E-71
SCE1572_11126	sce_9853	0.00E+00	0.00E+00
SCE1572_11130	sce_3722	0.00E+00	0.00E+00
SCE1572_11131	sce_3725	4.00E-109	1.00E-112
SCE1572_11132	sce_3724	0.00E+00	0.00E+00
SCE1572_11133	sce_3723	3.00E-148	1.00E-152
SCE1572_11134	sce_8378	2.00E-142	3.00E-140
SCE1572_11137	sce_8625	3.00E-59	1.00E-57
SCE1572_1114	sce_7128	2.00E-27	1.00E-27
SCE1572_11145	sce_9872	6.00E-101	6.00E-101
SCE1572_11151	sce_9873	1.00E-110	2.00E-114
SCE1572_11152	sce_9874	1.00E-23	9.00E-16
SCE1572_11153	sce_8393	1.00E-72	6.00E-63
SCE1572_11156	sce_7817	6.00E-22	1.00E-19
SCE1572_11159	sce_9876	9.00E-38	1.00E-30
SCE1572_11160	sce_9877	6.00E-99	6.00E-90
SCE1572_11161	sce_9887	0.00E+00	0.00E+00
SCE1572_11162	sce_9888	6.00E-178	0.00E+00
SCE1572_11163	sce_9890	3.00E-166	4.00E-166
SCE1572_11165	sce_9891	2.00E-87	1.00E-96
SCE1572_11166	sce_9892	2.00E-116	7.00E-112
SCE1572_11167	sce_8358	1.00E-26	1.00E-19
SCE1572_11170	sce_10020	3.00E-150	6.00E-163
SCE1572_11171	sce_10021	2.00E-44	2.00E-44
SCE1572_11172	sce_9911	8.00E-107	2.00E-100
SCE1572_11173	sce_9912	9.00E-111	7.00E-111
SCE1572_11174	sce_9913	0.00E+00	0.00E+00
SCE1572_11175	sce_9914	0.00E+00	0.00E+00
SCE1572_11177	sce_9915	8.00E-104	3.00E-103
SCE1572_11179	sce_9922	6.00E-169	3.00E-169
SCE1572_11180	sce_9924	2.00E-79	6.00E-81
SCE1572_11181	sce_9925	4.00E-107	4.00E-107
SCE1572_11182	sce_9926	5.00E-63	5.00E-78
SCE1572_11183	sce_9927	8.00E-131	8.00E-131
SCE1572_11189	sce_2238	0.00E+00	0.00E+00
SCE1572_11191	sce_9930	0.00E+00	0.00E+00
SCE1572_11192	sce_9931	3.00E-156	9.00E-150
SCE1572_11193	sce_9932	2.00E-84	3.00E-84
SCE1572_11194	sce_9933	2.00E-102	3.00E-92
SCE1572_11195	sce_9948	2.00E-79	5.00E-83
SCE1572_11196	sce_9947	4.00E-152	2.00E-180
SCE1572_11198	sce_9949	0.00E+00	0.00E+00
SCE1572_11199	sce_9950	1.00E-66	2.00E-58
SCE1572_11200	sce_9951	0.00E+00	7.00E-175
SCE1572_11201	sce_9952	7.00E-59	9.00E-68
SCE1572_11202	sce_9953	2.00E-152	3.00E-147
SCE1572_11206	sce_9954	0.00E+00	0.00E+00
SCE1572_11206	sce_5226	0.00E+00	0.00E+00
SCE1572_11206	sce_7154	0.00E+00	0.00E+00
SCE1572_11206	sce_5403	0.00E+00	0.00E+00

SCE1572_11206	sce_1803	0.00E+00	0.00E+00
SCE1572_11206	sce_3750	0.00E+00	0.00E+00
SCE1572_11206	sce_6712	0.00E+00	0.00E+00
SCE1572_11206	sce_7969	0.00E+00	0.00E+00
SCE1572_11206	sce_5751	0.00E+00	0.00E+00
SCE1572_11206	sce_9665	0.00E+00	0.00E+00
SCE1572_11206	sce_5746	0.00E+00	0.00E+00
SCE1572_11206	sce_2053	0.00E+00	0.00E+00
SCE1572_11206	sce_5229	0.00E+00	0.00E+00
SCE1572_11206	sce_9757	0.00E+00	0.00E+00
SCE1572_11206	sce_4073	0.00E+00	0.00E+00
SCE1572_11206	sce_3491	0.00E+00	0.00E+00
SCE1572_11206	sce_7465	0.00E+00	0.00E+00
SCE1572_11206	sce_7657	0.00E+00	0.00E+00
SCE1572_11208	sce_9956	0.00E+00	0.00E+00
SCE1572_11209	sce_9957	3.00E-118	9.00E-147
SCE1572_11210	sce_9963	5.00E-51	5.00E-51
SCE1572_11211	sce_9964	2.00E-144	2.00E-141
SCE1572_11215	sce_3793	0.00E+00	0.00E+00
SCE1572_11215	sce_7069	0.00E+00	0.00E+00
SCE1572_11215	sce_5085	0.00E+00	0.00E+00
SCE1572_11215	sce_5086	0.00E+00	0.00E+00
SCE1572_11215	sce_6701	0.00E+00	0.00E+00
SCE1572_11217	sce_9972	3.00E-142	7.00E-142
SCE1572_11218	sce_9973	0.00E+00	0.00E+00
SCE1572_11218	sce_9974	0.00E+00	0.00E+00
SCE1572_11225	sce_2399	3.00E-161	1.00E-161
SCE1572_11226	sce_2398	4.00E-121	1.00E-122
SCE1572_11227	sce_2397	3.00E-156	2.00E-156
SCE1572_11228	sce_2396	1.00E-81	8.00E-82
SCE1572_11230	sce_4485	3.00E-120	4.00E-120
SCE1572_11231	sce_9974	0.00E+00	0.00E+00
SCE1572_11231	sce_9973	0.00E+00	0.00E+00
SCE1572_11231	sce_8694	0.00E+00	0.00E+00
SCE1572_11231	sce_2645	0.00E+00	0.00E+00
SCE1572_11232	sce_9975	2.00E-131	5.00E-134
SCE1572_11233	sce_9976	3.00E-65	2.00E-62
SCE1572_11235	sce_9977	9.00E-148	1.00E-151
SCE1572_11236	sce_9978	0.00E+00	0.00E+00
SCE1572_11237	sce_9979	6.00E-141	1.00E-134
SCE1572_11238	sce_9980	4.00E-171	2.00E-163
SCE1572_11239	sce_9981	3.00E-164	4.00E-168
SCE1572_11240	sce_3744	4.00E-65	1.00E-65
SCE1572_11242	sce_1013	0.00E+00	0.00E+00
SCE1572_11243	sce_4521	1.00E-71	1.00E-78
SCE1572_11244	sce_10033	9.00E-100	7.00E-100
SCE1572_11246	sce_5205	9.00E-137	7.00E-131
SCE1572_11249	sce_10035	4.00E-61	1.00E-70
SCE1572_11253	sce_10036	0.00E+00	0.00E+00
SCE1572_11253	sce_5546	0.00E+00	0.00E+00
SCE1572_11254	sce_10037	0.00E+00	0.00E+00
SCE1572_11255	sce_10038	0.00E+00	0.00E+00
SCE1572_11256	sce_10039	3.00E-96	2.00E-106
SCE1572_11257	sce_10040	1.00E-58	6.00E-58
SCE1572_11258	sce_10041	3.00E-62	3.00E-62
SCE1572_11259	sce_10042	0.00E+00	0.00E+00
SCE1572_11260	sce_10043	6.00E-171	6.00E-171
SCE1572_11261	sce_10044	4.00E-37	4.00E-37
SCE1572_11262	sce_10045	2.00E-163	0.00E+00
SCE1572_11263	sce_10046	3.00E-148	2.00E-153
SCE1572_11264	sce_10047	7.00E-67	7.00E-67
SCE1572_11265	sce_10048	0.00E+00	0.00E+00
SCE1572_11266	sce_10049	3.00E-173	3.00E-173
SCE1572_11267	sce_10050	6.00E-91	6.00E-91
SCE1572_11268	sce_10051	0.00E+00	0.00E+00
SCE1572_11269	sce_10052	4.00E-108	7.00E-112
SCE1572_11270	sce_10053	0.00E+00	0.00E+00
SCE1572_11271	sce_10054	0.00E+00	0.00E+00
SCE1572_11272	sce_10055	6.00E-119	2.00E-133
SCE1572_11273	sce_10056	2.00E-157	2.00E-149
SCE1572_11274	sce_10057	2.00E-148	2.00E-148
SCE1572_11275	sce_10058	2.00E-149	2.00E-157
SCE1572_11276	sce_10060	1.00E-63	1.00E-63
SCE1572_11277	sce_10061	0.00E+00	0.00E+00
SCE1572_11279	sce_10062	4.00E-73	4.00E-73
SCE1572_1128	sce_808	0.00E+00	0.00E+00

SCE1572_11280	sce_10063	0.00E+00	0.00E+00
SCE1572_11281	sce_10064	0.00E+00	0.00E+00
SCE1572_11282	sce_10065	3.00E-156	1.00E-160
SCE1572_11283	sce_10067	2.00E-88	9.00E-82
SCE1572_11284	sce_10068	5.00E-131	4.00E-133
SCE1572_11285	sce_10069	8.00E-109	8.00E-109
SCE1572_11286	sce_1373	1.00E-106	7.00E-119
SCE1572_11287	sce_10070	4.00E-71	5.00E-67
SCE1572_11288	sce_10071	0.00E+00	0.00E+00
SCE1572_11290	sce_10072	0.00E+00	0.00E+00
SCE1572_11291	sce_10074	7.00E-35	7.00E-35
SCE1572_11292	sce_10075	4.00E-164	0.00E+00
SCE1572_11293	sce_10076	2.00E-173	1.00E-169
SCE1572_11294	sce_10077	2.00E-32	3.00E-36
SCE1572_11295	sce_10078	1.00E-56	3.00E-47
SCE1572_11296	sce_10079	0.00E+00	0.00E+00
SCE1572_11297	sce_10080	0.00E+00	1.00E-150
SCE1572_11298	sce_10081	2.00E-130	1.00E-130
SCE1572_11299	sce_10082	1.00E-135	1.00E-135
SCE1572_113	sce_101	1.00E-164	9.00E-166
SCE1572_11300	sce_10083	0.00E+00	0.00E+00
SCE1572_11301	sce_10084	2.00E-40	3.00E-41
SCE1572_11302	sce_10085	0.00E+00	0.00E+00
SCE1572_11303	sce_10086	0.00E+00	0.00E+00
SCE1572_11304	sce_10087	0.00E+00	0.00E+00
SCE1572_11306	sce_10088	0.00E+00	0.00E+00
SCE1572_11307	sce_10089	3.00E-139	9.00E-139
SCE1572_11308	sce_10090	0.00E+00	2.00E-163
SCE1572_11309	sce_10091	0.00E+00	4.00E-161
SCE1572_11313	sce_10092	6.00E-95	7.00E-95
SCE1572_11315	sce_10095	0.00E+00	0.00E+00
SCE1572_11316	sce_10096	0.00E+00	0.00E+00
SCE1572_11317	sce_10097	0.00E+00	0.00E+00
SCE1572_11318	sce_10098	0.00E+00	0.00E+00
SCE1572_1132	sce_809	8.00E-69	1.00E-69
SCE1572_11320	sce_10100	2.00E-75	3.00E-84
SCE1572_11321	sce_4678	6.00E-137	4.00E-144
SCE1572_11322	sce_10101	2.00E-128	2.00E-119
SCE1572_11323	sce_10102	0.00E+00	0.00E+00
SCE1572_11324	sce_10103	1.00E-87	4.00E-86
SCE1572_11325	sce_10105	3.00E-166	3.00E-170
SCE1572_11326	sce_10106	1.00E-122	1.00E-127
SCE1572_11327	sce_10107	1.00E-151	7.00E-134
SCE1572_1133	sce_810	2.00E-10	3.00E-08
SCE1572_11330	sce_10110	9.00E-69	1.00E-70
SCE1572_11331	sce_10111	1.00E-103	1.00E-103
SCE1572_11332	sce_10112	1.00E-86	2.00E-86
SCE1572_11333	sce_10113	0.00E+00	0.00E+00
SCE1572_11334	sce_10114	3.00E-40	6.00E-34
SCE1572_11336	sce_10135	8.00E-07	5.00E-07
SCE1572_1134	sce_8742	2.00E-25	2.00E-25
SCE1572_11340	sce_10140	5.00E-135	2.00E-142
SCE1572_11342	sce_10141	5.00E-163	7.00E-163
SCE1572_11343	sce_10142	2.00E-83	1.00E-91
SCE1572_11344	sce_10143	0.00E+00	0.00E+00
SCE1572_11345	sce_10144	2.00E-57	5.00E-57
SCE1572_11346	sce_10145	0.00E+00	0.00E+00
SCE1572_11347	sce_10146	6.00E-142	4.00E-142
SCE1572_11348	sce_10147	9.00E-25	3.00E-25
SCE1572_11351	sce_3937	0.00E+00	0.00E+00
SCE1572_11351	sce_8592	0.00E+00	0.00E+00
SCE1572_11354	sce_10188	4.00E-105	3.00E-118
SCE1572_11355	sce_8736	5.00E-30	9.00E-34
SCE1572_11356	sce_10189	1.00E-72	3.00E-78
SCE1572_11360	sce_10195	1.00E-178	7.00E-165
SCE1572_11361	sce_10196	0.00E+00	0.00E+00
SCE1572_11362	sce_10202	2.00E-178	5.00E-176
SCE1572_11363	sce_10203	0.00E+00	0.00E+00
SCE1572_11363	sce_2733	0.00E+00	0.00E+00
SCE1572_11364	sce_10204	0.00E+00	0.00E+00
SCE1572_11364	sce_5835	0.00E+00	0.00E+00
SCE1572_11364	sce_4513	0.00E+00	0.00E+00
SCE1572_11364	sce_388	0.00E+00	0.00E+00
SCE1572_11364	sce_7640	0.00E+00	0.00E+00
SCE1572_11364	sce_7661	0.00E+00	0.00E+00
SCE1572_11364	sce_3085	0.00E+00	0.00E+00

SCE1572_11364	sce_9557	0.00E+00	0.00E+00
SCE1572_11364	sce_7109	0.00E+00	0.00E+00
SCE1572_11364	sce_6535	0.00E+00	0.00E+00
SCE1572_11364	sce_9920	0.00E+00	0.00E+00
SCE1572_11364	sce_3003	0.00E+00	0.00E+00
SCE1572_11364	sce_6092	0.00E+00	0.00E+00
SCE1572_11364	sce_6093	0.00E+00	0.00E+00
SCE1572_11364	sce_6095	0.00E+00	0.00E+00
SCE1572_11364	sce_2065	0.00E+00	0.00E+00
SCE1572_11364	sce_8618	0.00E+00	0.00E+00
SCE1572_11364	sce_3917	0.00E+00	0.00E+00
SCE1572_1137	sce_9398	1.00E-109	1.00E-134
SCE1572_11370	sce_10205	2.00E-121	7.00E-135
SCE1572_11371	sce_10206	1.00E-118	9.00E-129
SCE1572_11372	sce_10209	1.00E-156	2.00E-159
SCE1572_11373	sce_10210	2.00E-139	2.00E-139
SCE1572_11374	sce_10211	0.00E+00	0.00E+00
SCE1572_11376	sce_10212	2.00E-152	3.00E-152
SCE1572_11377	sce_10213	4.00E-111	4.00E-111
SCE1572_11378	sce_10214	0.00E+00	0.00E+00
SCE1572_11379	sce_10215	8.00E-145	3.00E-147
SCE1572_11380	sce_10216	2.00E-74	1.00E-74
SCE1572_11381	sce_10217	8.00E-138	2.00E-157
SCE1572_11382	sce_10218	0.00E+00	0.00E+00
SCE1572_11384	sce_10219	0.00E+00	0.00E+00
SCE1572_11385	sce_10220	0.00E+00	0.00E+00
SCE1572_11385	sce_8839	0.00E+00	0.00E+00
SCE1572_11386	sce_10221	0.00E+00	0.00E+00
SCE1572_11387	sce_10223	2.00E-146	2.00E-146
SCE1572_11389	sce_10228	0.00E+00	0.00E+00
SCE1572_11389	sce_2553	0.00E+00	0.00E+00
SCE1572_11390	sce_10229	3.00E-122	3.00E-131
SCE1572_11391	sce_10230	8.00E-133	6.00E-133
SCE1572_11392	sce_10231	0.00E+00	0.00E+00
SCE1572_11393	sce_10233	0.00E+00	0.00E+00
SCE1572_11394	sce_10235	2.00E-53	2.00E-53
SCE1572_11395	sce_10237	0.00E+00	0.00E+00
SCE1572_11396	sce_10238	5.00E-54	2.00E-55
SCE1572_11398	sce_10239	0.00E+00	0.00E+00
SCE1572_11399	sce_10240	0.00E+00	0.00E+00
SCE1572_1140	sce_814	8.00E-24	1.00E-27
SCE1572_11400	sce_10241	0.00E+00	0.00E+00
SCE1572_11402	sce_10242	5.00E-47	4.00E-51
SCE1572_11404	sce_10243	2.00E-115	1.00E-108
SCE1572_11410	sce_10267	1.00E-132	2.00E-142
SCE1572_11412	sce_10269	2.00E-55	2.00E-49
SCE1572_11413	sce_10270	0.00E+00	0.00E+00
SCE1572_11414	sce_10271	0.00E+00	0.00E+00
SCE1572_11415	sce_10272	1.00E-119	1.00E-119
SCE1572_11416	sce_10274	2.00E-107	3.00E-92
SCE1572_1142	sce_815	0.00E+00	0.00E+00
SCE1572_11420	sce_10275	0.00E+00	0.00E+00
SCE1572_11421	sce_10276	0.00E+00	0.00E+00
SCE1572_11422	sce_10277	3.00E-144	3.00E-156
SCE1572_11424	sce_10283	5.00E-106	1.00E-96
SCE1572_11429	sce_3038	2.00E-105	2.00E-97
SCE1572_1143	sce_816	3.00E-38	2.00E-33
SCE1572_11430	sce_10284	0.00E+00	0.00E+00
SCE1572_11431	sce_10285	0.00E+00	0.00E+00
SCE1572_11432	sce_10288	0.00E+00	2.00E-176
SCE1572_11433	sce_10289	0.00E+00	0.00E+00
SCE1572_11435	sce_10290	0.00E+00	0.00E+00
SCE1572_11436	sce_10291	5.00E-179	7.00E-175
SCE1572_11437	sce_10292	1.00E-66	9.00E-73
SCE1572_11438	sce_10293	0.00E+00	0.00E+00
SCE1572_11439	sce_10294	0.00E+00	0.00E+00
SCE1572_11440	sce_10295	3.00E-113	2.00E-113
SCE1572_11441	sce_10296	4.00E-78	5.00E-80
SCE1572_11442	sce_10297	8.00E-80	4.00E-85
SCE1572_11443	sce_10298	4.00E-48	5.00E-48
SCE1572_11444	sce_10299	2.00E-57	7.00E-58
SCE1572_11445	sce_10300	0.00E+00	0.00E+00
SCE1572_11446	sce_10301	0.00E+00	0.00E+00
SCE1572_11447	sce_10302	0.00E+00	0.00E+00
SCE1572_11449	sce_10304	2.00E-146	1.00E-152
SCE1572_11450	sce_10305	0.00E+00	0.00E+00

SCE1572_11451	sce_10306	1.00E-85	1.00E-85
SCE1572_11452	sce_10307	6.00E-64	5.00E-64
SCE1572_11453	sce_10308	3.00E-57	3.00E-57
SCE1572_11457	sce_5222	0.00E+00	0.00E+00
SCE1572_11457	sce_5216	0.00E+00	0.00E+00
SCE1572_11458	sce_3037	5.00E-40	1.00E-35
SCE1572_11459	sce_5221	6.00E-25	2.00E-27
SCE1572_1146	sce_817	1.00E-72	7.00E-65
SCE1572_11460	sce_5222	0.00E+00	0.00E+00
SCE1572_11460	sce_5216	0.00E+00	0.00E+00
SCE1572_11460	sce_3035	0.00E+00	0.00E+00
SCE1572_11462	sce_1332	1.00E-14	1.00E-16
SCE1572_11468	sce_10309	7.00E-77	5.00E-70
SCE1572_11469	sce_10310	1.00E-94	2.00E-97
SCE1572_1147	sce_3880	0.00E+00	0.00E+00
SCE1572_11470	sce_10311	2.00E-103	1.00E-112
SCE1572_11471	sce_10312	1.00E-153	6.00E-147
SCE1572_11474	sce_9503	0.00E+00	0.00E+00
SCE1572_11474	sce_10365	0.00E+00	0.00E+00
SCE1572_11474	sce_9908	0.00E+00	0.00E+00
SCE1572_11478	sce_10313	6.00E-132	6.00E-131
SCE1572_1148	sce_3879	0.00E+00	0.00E+00
SCE1572_11480	sce_10315	0.00E+00	0.00E+00
SCE1572_11481	sce_10316	3.00E-129	1.00E-132
SCE1572_11482	sce_10317	4.00E-144	3.00E-144
SCE1572_11483	sce_10318	8.00E-103	8.00E-103
SCE1572_11484	sce_10319	2.00E-143	3.00E-146
SCE1572_11485	sce_10321	0.00E+00	0.00E+00
SCE1572_11486	sce_10322	3.00E-74	1.00E-75
SCE1572_11491	sce_10323	1.00E-180	6.00E-179
SCE1572_11492	sce_10324	0.00E+00	0.00E+00
SCE1572_11493	sce_10326	0.00E+00	0.00E+00
SCE1572_11499	sce_10332	4.00E-57	5.00E-54
SCE1572_115	sce_103	3.00E-71	2.00E-81
SCE1572_11500	sce_10333	7.00E-149	1.00E-140
SCE1572_11502	sce_10334	2.00E-42	3.00E-49
SCE1572_11503	sce_10335	7.00E-115	7.00E-103
SCE1572_11505	sce_10337	2.00E-82	1.00E-81
SCE1572_11506	sce_10338	2.00E-111	2.00E-114
SCE1572_11507	sce_10339	4.00E-133	4.00E-133
SCE1572_11508	sce_10340	1.00E-92	8.00E-92
SCE1572_11509	sce_10341	0.00E+00	0.00E+00
SCE1572_11510	sce_10342	3.00E-40	2.00E-45
SCE1572_11511	sce_10344	0.00E+00	0.00E+00
SCE1572_11512	sce_10345	6.00E-141	3.00E-144
SCE1572_11513	sce_10346	0.00E+00	0.00E+00
SCE1572_11514	sce_10347	0.00E+00	0.00E+00
SCE1572_11515	sce_10348	1.00E-88	9.00E-92
SCE1572_11516	sce_10349	5.00E-117	2.00E-139
SCE1572_11517	sce_10350	0.00E+00	0.00E+00
SCE1572_11518	sce_10351	8.00E-116	7.00E-116
SCE1572_11519	sce_10352	2.00E-124	8.00E-127
SCE1572_11520	sce_10353	8.00E-29	1.00E-36
SCE1572_11523	sce_7057	1.00E-15	6.00E-17
SCE1572_11524	sce_7056	1.00E-24	1.00E-20
SCE1572_11525	sce_7055	6.00E-95	2.00E-97
SCE1572_11526	sce_10265	6.00E-21	1.00E-21
SCE1572_11529	sce_10371	0.00E+00	0.00E+00
SCE1572_11530	sce_10372	3.00E-23	4.00E-23
SCE1572_11531	sce_10373	1.00E-70	1.00E-81
SCE1572_11533	sce_10380	1.00E-133	1.00E-122
SCE1572_11534	sce_10381	1.00E-119	4.00E-127
SCE1572_11535	sce_10384	0.00E+00	0.00E+00
SCE1572_11536	sce_10385	0.00E+00	0.00E+00
SCE1572_11537	sce_10386	5.00E-129	1.00E-121
SCE1572_11538	sce_10387	6.00E-92	2.00E-91
SCE1572_11539	sce_10388	5.00E-95	3.00E-99
SCE1572_11540	sce_10389	2.00E-91	5.00E-85
SCE1572_11541	sce_10390	2.00E-76	1.00E-68
SCE1572_11542	sce_10391	3.00E-125	2.00E-121
SCE1572_11543	sce_10392	6.00E-175	0.00E+00
SCE1572_11544	sce_10393	9.00E-131	1.00E-126
SCE1572_11545	sce_10394	0.00E+00	0.00E+00
SCE1572_11546	sce_10396	1.00E-130	6.00E-124
SCE1572_11548	sce_10397	3.00E-99	3.00E-99
SCE1572_11549	sce_10398	1.00E-156	2.00E-158

SCE1572_11553	sce_10402	0.00E+00	0.00E+00
SCE1572_11554	sce_10403	3.00E-114	1.00E-117
SCE1572_11555	sce_6028	2.00E-173	0.00E+00
SCE1572_11564	sce_10405	2.00E-72	8.00E-69
SCE1572_11565	sce_8641	2.00E-06	2.00E-12
SCE1572_11569	sce_167	2.00E-79	3.00E-78
SCE1572_11571	sce_7925	5.00E-89	4.00E-101
SCE1572_11574	sce_9347	0.00E+00	0.00E+00
SCE1572_11575	sce_10410	3.00E-163	3.00E-163
SCE1572_11576	sce_8743	1.00E-77	1.00E-77
SCE1572_11577	sce_10411	2.00E-153	2.00E-145
SCE1572_11578	sce_10415	7.00E-62	3.00E-62
SCE1572_11579	sce_10416	4.00E-147	9.00E-133
SCE1572_11580	sce_10417	4.00E-64	2.00E-69
SCE1572_11581	sce_10418	8.00E-165	5.00E-158
SCE1572_11582	sce_10419	0.00E+00	0.00E+00
SCE1572_11583	sce_10447	0.00E+00	0.00E+00
SCE1572_11584	sce_10448	1.00E-149	3.00E-150
SCE1572_11586	sce_10450	0.00E+00	0.00E+00
SCE1572_11588	sce_10452	2.00E-150	2.00E-148
SCE1572_11589	sce_10454	3.00E-98	1.00E-106
SCE1572_11590	sce_10455	1.00E-153	1.00E-153
SCE1572_11593	sce_10456	1.00E-97	1.00E-97
SCE1572_11594	sce_10457	3.00E-133	7.00E-140
SCE1572_11595	sce_10458	0.00E+00	0.00E+00
SCE1572_11596	sce_10459	7.00E-83	7.00E-83
SCE1572_11597	sce_10460	1.00E-102	4.00E-104
SCE1572_11598	sce_10461	9.00E-76	1.00E-74
SCE1572_11599	sce_10462	4.00E-119	2.00E-134
SCE1572_116	sce_104	2.00E-145	1.00E-144
SCE1572_11600	sce_10463	1.00E-90	1.00E-90
SCE1572_11601	sce_10464	1.00E-111	4.00E-96
SCE1572_1164	sce_854	6.00E-32	2.00E-26
SCE1572_1165	sce_856	0.00E+00	0.00E+00
SCE1572_1166	sce_857	0.00E+00	0.00E+00
SCE1572_1168	sce_4696	0.00E+00	0.00E+00
SCE1572_1169	sce_858	0.00E+00	0.00E+00
SCE1572_117	sce_105	3.00E-135	4.00E-126
SCE1572_1175	sce_5251	3.00E-84	2.00E-84
SCE1572_1176	sce_2435	1.00E-86	4.00E-87
SCE1572_1177	sce_860	9.00E-128	1.00E-127
SCE1572_1178	sce_2432	9.00E-117	5.00E-104
SCE1572_1179	sce_2431	3.00E-132	6.00E-128
SCE1572_118	sce_106	6.00E-80	6.00E-80
SCE1572_1180	sce_2430	3.00E-88	2.00E-85
SCE1572_1181	sce_5268	1.00E-57	1.00E-55
SCE1572_1184	sce_5086	0.00E+00	0.00E+00
SCE1572_1184	sce_5085	0.00E+00	0.00E+00
SCE1572_1184	sce_6701	0.00E+00	0.00E+00
SCE1572_1184	sce_3793	0.00E+00	0.00E+00
SCE1572_1185	sce_2391	6.00E-104	3.00E-100
SCE1572_1186	sce_862	2.00E-121	2.00E-121
SCE1572_1187	sce_863	2.00E-35	9.00E-37
SCE1572_1188	sce_9528	3.00E-59	2.00E-63
SCE1572_1189	sce_202	1.00E-150	1.00E-151
SCE1572_119	sce_107	6.00E-150	6.00E-150
SCE1572_1190	sce_1118	0.00E+00	0.00E+00
SCE1572_1192	sce_866	0.00E+00	0.00E+00
SCE1572_1193	sce_867	0.00E+00	0.00E+00
SCE1572_1197	sce_3917	0.00E+00	0.00E+00
SCE1572_1197	sce_6092	0.00E+00	0.00E+00
SCE1572_1197	sce_6107	0.00E+00	0.00E+00
SCE1572_1197	sce_6093	0.00E+00	0.00E+00
SCE1572_1197	sce_6094	0.00E+00	0.00E+00
SCE1572_1197	sce_6095	0.00E+00	0.00E+00
SCE1572_1197	sce_7661	0.00E+00	0.00E+00
SCE1572_1197	sce_388	0.00E+00	0.00E+00
SCE1572_1197	sce_9920	0.00E+00	0.00E+00
SCE1572_1197	sce_6535	0.00E+00	0.00E+00
SCE1572_1197	sce_3003	0.00E+00	0.00E+00
SCE1572_1197	sce_2065	0.00E+00	0.00E+00
SCE1572_1197	sce_10204	0.00E+00	0.00E+00
SCE1572_1197	sce_8602	0.00E+00	0.00E+00
SCE1572_1197	sce_7640	0.00E+00	0.00E+00
SCE1572_1197	sce_9557	0.00E+00	0.00E+00
SCE1572_1197	sce_4513	0.00E+00	0.00E+00

SCE1572_1197	sce_5835	0.00E+00	0.00E+00
SCE1572_1198	sce_868	0.00E+00	0.00E+00
SCE1572_12	sce_12	3.00E-103	9.00E-99
SCE1572_120	sce_108	3.00E-133	5.00E-138
SCE1572_1200	sce_837	4.00E-104	2.00E-99
SCE1572_1202	sce_869	1.00E-75	1.00E-78
SCE1572_1203	sce_870	6.00E-89	5.00E-69
SCE1572_1207	sce_871	0.00E+00	0.00E+00
SCE1572_1208	sce_872	0.00E+00	0.00E+00
SCE1572_1209	sce_873	2.00E-82	6.00E-77
SCE1572_121	sce_109	1.00E-105	5.00E-113
SCE1572_1211	sce_874	3.00E-56	2.00E-49
SCE1572_1212	sce_875	5.00E-51	3.00E-59
SCE1572_1216	sce_2569	5.00E-23	9.00E-22
SCE1572_1219	sce_879	6.00E-97	8.00E-95
SCE1572_122	sce_110	2.00E-167	3.00E-167
SCE1572_1222	sce_881	3.00E-34	3.00E-45
SCE1572_1230	sce_4062	0.00E+00	0.00E+00
SCE1572_1230	sce_9373	0.00E+00	0.00E+00
SCE1572_1231	sce_885	0.00E+00	0.00E+00
SCE1572_1233	sce_895	0.00E+00	0.00E+00
SCE1572_1234	sce_896	0.00E+00	0.00E+00
SCE1572_1236	sce_898	0.00E+00	0.00E+00
SCE1572_1242	sce_900	0.00E+00	0.00E+00
SCE1572_1243	sce_9368	1.00E-08	2.00E-15
SCE1572_1245	sce_5041	3.00E-29	3.00E-33
SCE1572_1248	sce_901	4.00E-76	2.00E-76
SCE1572_125	sce_125	7.00E-49	5.00E-50
SCE1572_1250	sce_1317	7.00E-17	8.00E-17
SCE1572_1251	sce_1318	1.00E-22	1.00E-28
SCE1572_1252	sce_902	0.00E+00	0.00E+00
SCE1572_1253	sce_903	2.00E-87	2.00E-87
SCE1572_1254	sce_904	2.00E-60	2.00E-60
SCE1572_1255	sce_7640	0.00E+00	0.00E+00
SCE1572_1255	sce_5835	0.00E+00	0.00E+00
SCE1572_1255	sce_388	0.00E+00	0.00E+00
SCE1572_1255	sce_10204	0.00E+00	0.00E+00
SCE1572_1255	sce_4513	0.00E+00	0.00E+00
SCE1572_1257	sce_846	0.00E+00	0.00E+00
SCE1572_1258	sce_1687	3.00E-90	3.00E-90
SCE1572_1259	sce_1688	7.00E-43	7.00E-43
SCE1572_126	sce_127	2.00E-153	4.00E-175
SCE1572_1260	sce_1689	0.00E+00	0.00E+00
SCE1572_1261	sce_1690	9.00E-159	3.00E-148
SCE1572_1262	sce_10368	5.00E-122	3.00E-106
SCE1572_1263	sce_909	0.00E+00	0.00E+00
SCE1572_1265	sce_910	5.00E-46	4.00E-46
SCE1572_1266	sce_911	7.00E-19	7.00E-19
SCE1572_1268	sce_916	4.00E-176	0.00E+00
SCE1572_1269	sce_917	4.00E-145	5.00E-150
SCE1572_127	sce_128	4.00E-80	4.00E-96
SCE1572_1270	sce_1557	2.00E-153	2.00E-162
SCE1572_1271	sce_1556	7.00E-170	3.00E-162
SCE1572_1272	sce_1553	4.00E-15	2.00E-06
SCE1572_1273	sce_1552	0.00E+00	0.00E+00
SCE1572_1274	sce_1551	8.00E-69	6.00E-62
SCE1572_1275	sce_1550	6.00E-67	6.00E-67
SCE1572_1276	sce_1549	0.00E+00	0.00E+00
SCE1572_1280	sce_1493	2.00E-147	2.00E-146
SCE1572_1281	sce_919	1.00E-178	0.00E+00
SCE1572_1284	sce_920	0.00E+00	0.00E+00
SCE1572_1285	sce_921	0.00E+00	0.00E+00
SCE1572_1286	sce_922	0.00E+00	0.00E+00
SCE1572_1287	sce_923	1.00E-74	5.00E-72
SCE1572_1288	sce_924	2.00E-154	1.00E-150
SCE1572_1290	sce_925	4.00E-131	6.00E-134
SCE1572_1291	sce_926	1.00E-97	2.00E-90
SCE1572_1292	sce_927	0.00E+00	0.00E+00
SCE1572_1293	sce_928	1.00E-165	5.00E-172
SCE1572_1294	sce_929	3.00E-126	7.00E-154
SCE1572_1295	sce_930	5.00E-142	3.00E-136
SCE1572_1297	sce_931	2.00E-64	1.00E-70
SCE1572_1298	sce_932	4.00E-27	4.00E-27
SCE1572_1299	sce_933	9.00E-142	4.00E-132
SCE1572_13	sce_13	0.00E+00	0.00E+00
SCE1572_1300	sce_934	7.00E-155	2.00E-155

SCE1572_1301	sce_936	0.00E+00	0.00E+00
SCE1572_1302	sce_937	3.00E-81	4.00E-91
SCE1572_1303	sce_938	3.00E-98	4.00E-101
SCE1572_1304	sce_939	0.00E+00	0.00E+00
SCE1572_1305	sce_940	2.00E-31	2.00E-30
SCE1572_1306	sce_942	5.00E-72	5.00E-74
SCE1572_1307	sce_943	6.00E-80	6.00E-80
SCE1572_1308	sce_944	0.00E+00	0.00E+00
SCE1572_1309	sce_945	0.00E+00	0.00E+00
SCE1572_1309	sce_457	0.00E+00	0.00E+00
SCE1572_131	sce_129	4.00E-67	6.00E-62
SCE1572_1310	sce_946	1.00E-54	1.00E-54
SCE1572_1311	sce_947	2.00E-107	3.00E-99
SCE1572_1312	sce_948	8.00E-51	8.00E-51
SCE1572_1313	sce_949	1.00E-152	1.00E-152
SCE1572_1314	sce_950	1.00E-52	1.00E-44
SCE1572_1315	sce_951	2.00E-97	7.00E-113
SCE1572_1316	sce_952	0.00E+00	0.00E+00
SCE1572_1318	sce_953	1.00E-72	2.00E-71
SCE1572_1319	sce_954	4.00E-152	2.00E-136
SCE1572_132	sce_130	0.00E+00	0.00E+00
SCE1572_1320	sce_956	0.00E+00	0.00E+00
SCE1572_1321	sce_957	4.00E-159	2.00E-150
SCE1572_1323	sce_959	0.00E+00	8.00E-179
SCE1572_1324	sce_960	1.00E-76	3.00E-76
SCE1572_1329	sce_8257	9.00E-14	6.00E-18
SCE1572_133	sce_131	0.00E+00	0.00E+00
SCE1572_1337	sce_961	0.00E+00	0.00E+00
SCE1572_1338	sce_962	0.00E+00	0.00E+00
SCE1572_1339	sce_963	0.00E+00	0.00E+00
SCE1572_1341	sce_965	2.00E-138	2.00E-138
SCE1572_1342	sce_967	7.00E-164	7.00E-164
SCE1572_1343	sce_968	8.00E-65	1.00E-56
SCE1572_1344	sce_969	0.00E+00	7.00E-179
SCE1572_1345	sce_970	3.00E-180	0.00E+00
SCE1572_1346	sce_971	1.00E-83	5.00E-79
SCE1572_1347	sce_972	0.00E+00	0.00E+00
SCE1572_1348	sce_973	9.00E-166	8.00E-159
SCE1572_135	sce_9966	4.00E-120	3.00E-120
SCE1572_1350	sce_974	1.00E-64	4.00E-65
SCE1572_1351	sce_975	2.00E-166	2.00E-166
SCE1572_1352	sce_976	0.00E+00	0.00E+00
SCE1572_1353	sce_978	3.00E-113	2.00E-109
SCE1572_1354	sce_979	3.00E-146	6.00E-165
SCE1572_1355	sce_980	6.00E-156	8.00E-162
SCE1572_1356	sce_981	6.00E-102	2.00E-99
SCE1572_1357	sce_982	0.00E+00	0.00E+00
SCE1572_1358	sce_984	0.00E+00	0.00E+00
SCE1572_1359	sce_985	0.00E+00	0.00E+00
SCE1572_136	sce_9965	6.00E-152	1.00E-150
SCE1572_1360	sce_986	0.00E+00	0.00E+00
SCE1572_1361	sce_987	0.00E+00	0.00E+00
SCE1572_1362	sce_988	0.00E+00	0.00E+00
SCE1572_1363	sce_989	9.00E-43	9.00E-43
SCE1572_1364	sce_990	4.00E-97	4.00E-97
SCE1572_1365	sce_991	1.00E-122	3.00E-129
SCE1572_1366	sce_992	0.00E+00	0.00E+00
SCE1572_1367	sce_993	1.00E-151	9.00E-159
SCE1572_1368	sce_994	0.00E+00	0.00E+00
SCE1572_1369	sce_995	0.00E+00	0.00E+00
SCE1572_137	sce_133	0.00E+00	0.00E+00
SCE1572_1370	sce_996	0.00E+00	0.00E+00
SCE1572_1371	sce_998	0.00E+00	0.00E+00
SCE1572_1372	sce_999	1.00E-62	1.00E-62
SCE1572_1374	sce_1000	0.00E+00	0.00E+00
SCE1572_1375	sce_1002	0.00E+00	0.00E+00
SCE1572_1377	sce_5241	7.00E-63	1.00E-77
SCE1572_1379	sce_1428	1.00E-37	6.00E-38
SCE1572_1380	sce_4696	0.00E+00	0.00E+00
SCE1572_1381	sce_6188	0.00E+00	0.00E+00
SCE1572_1384	sce_8656	0.00E+00	0.00E+00
SCE1572_1385	sce_6414	4.00E-133	5.00E-132
SCE1572_1387	sce_9995	0.00E+00	0.00E+00
SCE1572_1389	sce_1692	2.00E-26	2.00E-26
SCE1572_1390	sce_4602	2.00E-163	1.00E-160
SCE1572_1392	sce_1004	8.00E-130	1.00E-132

SCE1572_1393	sce_1005	3.00E-168	2.00E-178
SCE1572_1394	sce_6012	4.00E-39	2.00E-40
SCE1572_1395	sce_1006	2.00E-179	8.00E-172
SCE1572_1396	sce_1007	2.00E-93	7.00E-107
SCE1572_1397	sce_1333	2.00E-38	8.00E-42
SCE1572_1398	sce_1331	4.00E-53	1.00E-49
SCE1572_1399	sce_1330	6.00E-40	2.00E-41
SCE1572_14	sce_14	0.00E+00	0.00E+00
SCE1572_1400	sce_1341	1.00E-54	1.00E-65
SCE1572_1401	sce_1340	1.00E-135	7.00E-134
SCE1572_1405	sce_1339	1.00E-158	2.00E-128
SCE1572_1406	sce_1338	0.00E+00	0.00E+00
SCE1572_1407	sce_1337	1.00E-157	3.00E-157
SCE1572_1408	sce_1336	1.00E-80	4.00E-85
SCE1572_1409	sce_1335	0.00E+00	0.00E+00
SCE1572_1410	sce_1334	1.00E-111	9.00E-121
SCE1572_1411	sce_1008	0.00E+00	0.00E+00
SCE1572_1412	sce_1009	6.00E-140	1.00E-136
SCE1572_1413	sce_1010	3.00E-47	2.00E-48
SCE1572_1414	sce_1011	9.00E-30	5.00E-36
SCE1572_1416	sce_5962	0.00E+00	0.00E+00
SCE1572_1417	sce_4679	2.00E-39	3.00E-39
SCE1572_1418	sce_4680	2.00E-37	2.00E-37
SCE1572_1423	sce_1015	0.00E+00	0.00E+00
SCE1572_1424	sce_3601	1.00E-119	5.00E-113
SCE1572_1425	sce_3600	1.00E-150	8.00E-154
SCE1572_1426	sce_1017	1.00E-128	1.00E-128
SCE1572_1428	sce_1018	1.00E-158	2.00E-151
SCE1572_1429	sce_1019	2.00E-122	2.00E-122
SCE1572_1430	sce_1022	5.00E-122	2.00E-129
SCE1572_1431	sce_1023	2.00E-31	2.00E-31
SCE1572_1432	sce_1024	4.00E-30	1.00E-67
SCE1572_1434	sce_8817	0.00E+00	0.00E+00
SCE1572_1434	sce_10193	0.00E+00	0.00E+00
SCE1572_1435	sce_4560	2.00E-25	5.00E-29
SCE1572_1437	sce_6320	6.00E-68	6.00E-68
SCE1572_1438	sce_6321	1.00E-143	7.00E-148
SCE1572_1439	sce_6322	2.00E-161	4.00E-152
SCE1572_144	sce_1298	3.00E-11	3.00E-11
SCE1572_1440	sce_6323	0.00E+00	0.00E+00
SCE1572_1441	sce_6330	0.00E+00	0.00E+00
SCE1572_1442	sce_6326	2.00E-108	4.00E-106
SCE1572_1443	sce_1084	0.00E+00	0.00E+00
SCE1572_1445	sce_2350	0.00E+00	0.00E+00
SCE1572_1447	sce_6187	0.00E+00	0.00E+00
SCE1572_1448	sce_2658	7.00E-43	5.00E-49
SCE1572_1449	sce_2659	4.00E-48	4.00E-48
SCE1572_145	sce_6050	5.00E-46	6.00E-53
SCE1572_1450	sce_9885	3.00E-157	3.00E-157
SCE1572_1451	sce_9884	4.00E-149	5.00E-144
SCE1572_1453	sce_1676	0.00E+00	0.00E+00
SCE1572_1455	sce_7521	0.00E+00	0.00E+00
SCE1572_1459	sce_8592	0.00E+00	0.00E+00
SCE1572_1459	sce_3937	0.00E+00	0.00E+00
SCE1572_146	sce_6051	0.00E+00	0.00E+00
SCE1572_1463	sce_9794	3.00E-123	3.00E-127
SCE1572_1464	sce_9795	6.00E-115	1.00E-131
SCE1572_1465	sce_7514	6.00E-79	2.00E-82
SCE1572_147	sce_6052	0.00E+00	0.00E+00
SCE1572_149	sce_1469	4.00E-70	5.00E-62
SCE1572_1492	sce_7318	0.00E+00	0.00E+00
SCE1572_1492	sce_5158	0.00E+00	0.00E+00
SCE1572_1492	sce_1116	0.00E+00	0.00E+00
SCE1572_1494	sce_2498	0.00E+00	0.00E+00
SCE1572_1496	sce_8802	1.00E-60	3.00E-52
SCE1572_1497	sce_9879	1.00E-69	3.00E-68
SCE1572_15	sce_15	4.00E-25	1.00E-19
SCE1572_150	sce_138	8.00E-85	2.00E-97
SCE1572_1504	sce_10169	0.00E+00	0.00E+00
SCE1572_1511	sce_7061	5.00E-83	6.00E-73
SCE1572_1512	sce_9866	2.00E-141	6.00E-137
SCE1572_1514	sce_1037	2.00E-100	3.00E-121
SCE1572_1515	sce_1039	2.00E-16	1.00E-16
SCE1572_1516	sce_1040	0.00E+00	0.00E+00
SCE1572_1518	sce_1041	0.00E+00	0.00E+00
SCE1572_1521	sce_1044	5.00E-63	3.00E-58

SCE1572_1523	sce_1046	3.00E-106	3.00E-99
SCE1572_1525	sce_1047	0.00E+00	0.00E+00
SCE1572_1526	sce_1048	0.00E+00	0.00E+00
SCE1572_1527	sce_1049	3.00E-20	2.00E-20
SCE1572_1528	sce_1051	0.00E+00	0.00E+00
SCE1572_1529	sce_1052	0.00E+00	0.00E+00
SCE1572_1532	sce_1053	2.00E-59	4.00E-61
SCE1572_1533	sce_1054	1.00E-75	7.00E-92
SCE1572_1534	sce_1056	1.00E-119	3.00E-115
SCE1572_1535	sce_1057	4.00E-79	8.00E-93
SCE1572_1538	sce_1058	1.00E-152	7.00E-153
SCE1572_1539	sce_1059	5.00E-166	6.00E-163
SCE1572_1540	sce_1060	0.00E+00	0.00E+00
SCE1572_1543	sce_1061	7.00E-13	7.00E-18
SCE1572_1544	sce_1063	5.00E-79	5.00E-79
SCE1572_1545	sce_1065	0.00E+00	0.00E+00
SCE1572_1546	sce_1066	0.00E+00	0.00E+00
SCE1572_1547	sce_1071	2.00E-84	1.00E-84
SCE1572_1548	sce_1074	0.00E+00	0.00E+00
SCE1572_1549	sce_1075	4.00E-142	3.00E-140
SCE1572_155	sce_140	0.00E+00	0.00E+00
SCE1572_1550	sce_1076	6.00E-45	4.00E-46
SCE1572_1551	sce_1078	3.00E-163	7.00E-140
SCE1572_1552	sce_9982	9.00E-78	1.00E-97
SCE1572_1553	sce_1080	4.00E-52	3.00E-70
SCE1572_1554	sce_1081	0.00E+00	0.00E+00
SCE1572_1556	sce_4904	3.00E-52	5.00E-53
SCE1572_1558	sce_1087	0.00E+00	0.00E+00
SCE1572_1559	sce_1088	2.00E-58	2.00E-60
SCE1572_156	sce_141	4.00E-133	4.00E-133
SCE1572_1560	sce_1090	4.00E-112	1.00E-92
SCE1572_1561	sce_1091	2.00E-124	9.00E-126
SCE1572_1562	sce_1092	4.00E-49	2.00E-49
SCE1572_1563	sce_1094	4.00E-27	4.00E-27
SCE1572_1564	sce_1095	6.00E-71	1.00E-70
SCE1572_1567	sce_1096	3.00E-18	1.00E-16
SCE1572_1568	sce_1097	0.00E+00	0.00E+00
SCE1572_1569	sce_1098	6.00E-132	1.00E-132
SCE1572_157	sce_5982	0.00E+00	0.00E+00
SCE1572_1571	sce_1122	7.00E-26	2.00E-32
SCE1572_1572	sce_1123	0.00E+00	0.00E+00
SCE1572_1573	sce_1124	4.00E-176	2.00E-178
SCE1572_1574	sce_1125	1.00E-99	3.00E-99
SCE1572_1575	sce_1126	2.00E-150	4.00E-150
SCE1572_1576	sce_1127	2.00E-180	9.00E-160
SCE1572_1577	sce_1128	2.00E-152	5.00E-155
SCE1572_158	sce_5981	7.00E-84	1.00E-104
SCE1572_1581	sce_1132	2.00E-111	1.00E-110
SCE1572_1582	sce_1133	2.00E-121	2.00E-125
SCE1572_1584	sce_1604	8.00E-95	8.00E-95
SCE1572_1585	sce_7900	1.00E-95	1.00E-95
SCE1572_159	sce_5980	0.00E+00	0.00E+00
SCE1572_16	sce_16	6.00E-160	3.00E-162
SCE1572_1600	sce_8426	0.00E+00	0.00E+00
SCE1572_1604	sce_1140	1.00E-37	8.00E-46
SCE1572_1605	sce_1143	0.00E+00	0.00E+00
SCE1572_1606	sce_1144	0.00E+00	0.00E+00
SCE1572_1607	sce_1145	2.00E-108	7.00E-109
SCE1572_1608	sce_1146	0.00E+00	0.00E+00
SCE1572_1609	sce_1148	0.00E+00	0.00E+00
SCE1572_161	sce_8630	1.00E-133	1.00E-135
SCE1572_1610	sce_1149	0.00E+00	0.00E+00
SCE1572_1612	sce_1151	8.00E-99	3.00E-88
SCE1572_1614	sce_1152	0.00E+00	0.00E+00
SCE1572_1615	sce_1153	0.00E+00	0.00E+00
SCE1572_1616	sce_1154	1.00E-142	4.00E-128
SCE1572_1617	sce_1155	8.00E-137	1.00E-136
SCE1572_1618	sce_1156	0.00E+00	0.00E+00
SCE1572_1619	sce_1157	6.00E-105	6.00E-96
SCE1572_162	sce_8629	0.00E+00	0.00E+00
SCE1572_1620	sce_1158	1.00E-60	1.00E-60
SCE1572_1621	sce_1159	2.00E-60	3.00E-70
SCE1572_1625	sce_8406	5.00E-30	3.00E-31
SCE1572_1626	sce_1164	7.00E-83	1.00E-77
SCE1572_1627	sce_7633	0.00E+00	0.00E+00
SCE1572_1628	sce_1165	4.00E-145	7.00E-147

SCE1572_1629	sce_1166	1.00E-51	1.00E-43
SCE1572_1633	sce_1167	0.00E+00	0.00E+00
SCE1572_1634	sce_1168	0.00E+00	0.00E+00
SCE1572_1636	sce_1170	2.00E-99	2.00E-99
SCE1572_1640	sce_9109	5.00E-28	7.00E-26
SCE1572_1643	sce_8347	0.00E+00	0.00E+00
SCE1572_1645	sce_4581	0.00E+00	0.00E+00
SCE1572_1645	sce_9106	0.00E+00	0.00E+00
SCE1572_1649	sce_6171	0.00E+00	0.00E+00
SCE1572_165	sce_147	8.00E-131	3.00E-154
SCE1572_1651	sce_5536	9.00E-51	4.00E-51
SCE1572_1658	sce_1173	4.00E-80	1.00E-80
SCE1572_1659	sce_1174	7.00E-153	4.00E-137
SCE1572_1660	sce_1175	7.00E-168	3.00E-166
SCE1572_1661	sce_1176	1.00E-177	1.00E-177
SCE1572_1663	sce_1177	1.00E-09	1.00E-08
SCE1572_1664	sce_1178	1.00E-167	1.00E-167
SCE1572_1665	sce_1180	1.00E-165	3.00E-169
SCE1572_1666	sce_1181	0.00E+00	0.00E+00
SCE1572_1667	sce_1183	3.00E-99	1.00E-92
SCE1572_1668	sce_1184	5.00E-175	2.00E-180
SCE1572_1669	sce_1185	9.00E-43	1.00E-51
SCE1572_1670	sce_1186	0.00E+00	0.00E+00
SCE1572_1671	sce_1187	0.00E+00	0.00E+00
SCE1572_1672	sce_1188	4.00E-78	5.00E-88
SCE1572_1673	sce_1189	0.00E+00	0.00E+00
SCE1572_1674	sce_1190	4.00E-161	2.00E-148
SCE1572_1675	sce_1191	3.00E-89	2.00E-85
SCE1572_1677	sce_1192	4.00E-18	1.00E-24
SCE1572_1678	sce_1193	0.00E+00	0.00E+00
SCE1572_1679	sce_1194	0.00E+00	0.00E+00
SCE1572_168	sce_148	6.00E-105	1.00E-107
SCE1572_1680	sce_1195	3.00E-153	3.00E-153
SCE1572_1681	sce_1196	1.00E-62	8.00E-72
SCE1572_1682	sce_1197	1.00E-116	1.00E-108
SCE1572_1683	sce_1198	3.00E-43	3.00E-43
SCE1572_1684	sce_1199	3.00E-144	3.00E-144
SCE1572_1685	sce_1200	9.00E-87	8.00E-100
SCE1572_1686	sce_1201	8.00E-24	1.00E-20
SCE1572_1687	sce_1202	9.00E-79	5.00E-72
SCE1572_1688	sce_1203	1.00E-69	3.00E-69
SCE1572_169	sce_149	1.00E-138	6.00E-133
SCE1572_1690	sce_1204	3.00E-56	4.00E-50
SCE1572_1691	sce_1205	8.00E-71	9.00E-71
SCE1572_1692	sce_1206	6.00E-14	2.00E-21
SCE1572_1693	sce_1207	1.00E-32	4.00E-10
SCE1572_1696	sce_1209	9.00E-116	1.00E-107
SCE1572_1697	sce_1210	2.00E-17	2.00E-26
SCE1572_1698	sce_1211	8.00E-33	8.00E-42
SCE1572_1699	sce_1212	0.00E+00	0.00E+00
SCE1572_17	sce_17	1.00E-49	6.00E-51
SCE1572_170	sce_151	9.00E-71	2.00E-71
SCE1572_1700	sce_1213	8.00E-159	4.00E-154
SCE1572_1701	sce_1214	0.00E+00	0.00E+00
SCE1572_1702	sce_1215	3.00E-105	8.00E-112
SCE1572_1703	sce_1216	0.00E+00	0.00E+00
SCE1572_1705	sce_1218	0.00E+00	0.00E+00
SCE1572_1706	sce_1219	0.00E+00	0.00E+00
SCE1572_1707	sce_1221	3.00E-169	6.00E-171
SCE1572_1708	sce_1222	2.00E-25	2.00E-25
SCE1572_1709	sce_1223	0.00E+00	0.00E+00
SCE1572_171	sce_152	7.00E-39	7.00E-39
SCE1572_1710	sce_1224	4.00E-43	2.00E-40
SCE1572_1711	sce_1225	2.00E-162	5.00E-169
SCE1572_1712	sce_1226	6.00E-149	3.00E-159
SCE1572_1713	sce_1227	2.00E-84	5.00E-85
SCE1572_1717	sce_1230	3.00E-154	5.00E-161
SCE1572_1718	sce_1231	0.00E+00	0.00E+00
SCE1572_1719	sce_1232	0.00E+00	0.00E+00
SCE1572_1720	sce_1233	3.00E-111	2.00E-103
SCE1572_1722	sce_1235	0.00E+00	0.00E+00
SCE1572_1724	sce_1236	5.00E-135	8.00E-135
SCE1572_1725	sce_1237	0.00E+00	0.00E+00
SCE1572_1727	sce_1238	0.00E+00	0.00E+00
SCE1572_1728	sce_1240	0.00E+00	6.00E-129
SCE1572_173	sce_153	2.00E-24	2.00E-35

SCE1572_1731	sce_9222	0.00E+00	0.00E+00
SCE1572_1731	sce_1814	0.00E+00	0.00E+00
SCE1572_1739	sce_1242	3.00E-116	1.00E-104
SCE1572_174	sce_154	2.00E-98	4.00E-88
SCE1572_1740	sce_1243	1.00E-105	3.00E-121
SCE1572_175	sce_155	8.00E-118	1.00E-134
SCE1572_176	sce_156	8.00E-32	3.00E-32
SCE1572_1761	sce_1670	1.00E-107	1.00E-107
SCE1572_1762	sce_1116	0.00E+00	0.00E+00
SCE1572_1762	sce_5158	0.00E+00	0.00E+00
SCE1572_1762	sce_7318	0.00E+00	0.00E+00
SCE1572_1763	sce_1115	0.00E+00	0.00E+00
SCE1572_1763	sce_5159	0.00E+00	0.00E+00
SCE1572_1768	sce_5098	0.00E+00	0.00E+00
SCE1572_177	sce_7124	8.00E-38	4.00E-37
SCE1572_1771	sce_1085	5.00E-179	7.00E-180
SCE1572_1772	sce_1086	0.00E+00	0.00E+00
SCE1572_1774	sce_5484	1.00E-74	4.00E-76
SCE1572_1775	sce_5485	2.00E-09	4.00E-17
SCE1572_1776	sce_5486	0.00E+00	0.00E+00
SCE1572_1776	sce_1479	0.00E+00	0.00E+00
SCE1572_1777	sce_5487	0.00E+00	0.00E+00
SCE1572_1777	sce_1478	0.00E+00	0.00E+00
SCE1572_1778	sce_8627	1.00E-99	4.00E-104
SCE1572_1780	sce_1565	1.00E-124	1.00E-124
SCE1572_1781	sce_1564	1.00E-142	5.00E-152
SCE1572_1782	sce_7064	5.00E-53	5.00E-53
SCE1572_1783	sce_7065	2.00E-70	2.00E-70
SCE1572_1785	sce_7067	0.00E+00	0.00E+00
SCE1572_179	sce_159	0.00E+00	0.00E+00
SCE1572_18	sce_18	0.00E+00	0.00E+00
SCE1572_1806	sce_1266	2.00E-87	2.00E-89
SCE1572_1807	sce_1267	1.00E-78	9.00E-49
SCE1572_1808	sce_1268	2.00E-111	3.00E-105
SCE1572_1809	sce_1269	6.00E-138	5.00E-137
SCE1572_181	sce_1372	0.00E+00	0.00E+00
SCE1572_1810	sce_5174	7.00E-92	5.00E-97
SCE1572_1811	sce_5175	2.00E-176	2.00E-171
SCE1572_1812	sce_1270	1.00E-130	5.00E-146
SCE1572_1813	sce_1271	2.00E-84	5.00E-75
SCE1572_1814	sce_1272	2.00E-147	3.00E-157
SCE1572_1815	sce_1273	3.00E-143	4.00E-180
SCE1572_1816	sce_1275	3.00E-80	2.00E-79
SCE1572_1818	sce_9112	4.00E-22	4.00E-22
SCE1572_1820	sce_1284	1.00E-61	2.00E-66
SCE1572_1824	sce_2457	0.00E+00	0.00E+00
SCE1572_1825	sce_2458	7.00E-101	1.00E-96
SCE1572_1829	sce_6076	0.00E+00	0.00E+00
SCE1572_183	sce_9533	0.00E+00	0.00E+00
SCE1572_1830	sce_1292	0.00E+00	0.00E+00
SCE1572_1832	sce_1293	3.00E-30	3.00E-36
SCE1572_1833	sce_1294	0.00E+00	0.00E+00
SCE1572_1834	sce_1295	1.00E-39	1.00E-42
SCE1572_1835	sce_1296	9.00E-71	6.00E-78
SCE1572_1836	sce_1297	3.00E-25	4.00E-25
SCE1572_1837	sce_1299	0.00E+00	0.00E+00
SCE1572_1838	sce_1300	0.00E+00	0.00E+00
SCE1572_1840	sce_1302	1.00E-141	3.00E-152
SCE1572_1841	sce_1303	6.00E-45	7.00E-50
SCE1572_1842	sce_1304	0.00E+00	0.00E+00
SCE1572_1843	sce_1305	5.00E-93	5.00E-93
SCE1572_1844	sce_1306	1.00E-177	0.00E+00
SCE1572_1846	sce_1308	2.00E-50	1.00E-46
SCE1572_1849	sce_1492	0.00E+00	0.00E+00
SCE1572_185	sce_7864	1.00E-85	1.00E-96
SCE1572_1850	sce_1491	0.00E+00	0.00E+00
SCE1572_1851	sce_1490	6.00E-47	4.00E-47
SCE1572_1852	sce_1488	2.00E-136	7.00E-136
SCE1572_1853	sce_1487	2.00E-98	5.00E-99
SCE1572_1855	sce_1309	0.00E+00	0.00E+00
SCE1572_1856	sce_1310	0.00E+00	0.00E+00
SCE1572_1858	sce_1312	5.00E-51	5.00E-51
SCE1572_1859	sce_1313	2.00E-35	1.00E-47
SCE1572_186	sce_7863	6.00E-126	5.00E-136
SCE1572_1860	sce_1315	0.00E+00	0.00E+00
SCE1572_1862	sce_3679	2.00E-179	0.00E+00

SCE1572_1866	sce_6298	7.00E-12	3.00E-08
SCE1572_1869	sce_1342	1.00E-157	3.00E-162
SCE1572_1870	sce_1344	1.00E-62	1.00E-87
SCE1572_1871	sce_3671	1.00E-93	3.00E-93
SCE1572_1872	sce_1345	0.00E+00	0.00E+00
SCE1572_1874	sce_1390	3.00E-87	2.00E-83
SCE1572_1875	sce_1391	0.00E+00	0.00E+00
SCE1572_1876	sce_1392	0.00E+00	0.00E+00
SCE1572_1876	sce_5578	0.00E+00	0.00E+00
SCE1572_1878	sce_1394	6.00E-15	4.00E-19
SCE1572_1879	sce_1395	9.00E-66	1.00E-66
SCE1572_188	sce_171	1.00E-117	9.00E-127
SCE1572_1880	sce_1396	0.00E+00	0.00E+00
SCE1572_1881	sce_1397	4.00E-71	8.00E-67
SCE1572_1882	sce_1398	0.00E+00	0.00E+00
SCE1572_1882	sce_7661	0.00E+00	0.00E+00
SCE1572_1884	sce_1399	3.00E-113	2.00E-102
SCE1572_1885	sce_1401	3.00E-128	5.00E-157
SCE1572_1887	sce_1402	0.00E+00	0.00E+00
SCE1572_1889	sce_1404	0.00E+00	0.00E+00
SCE1572_189	sce_172	5.00E-57	1.00E-53
SCE1572_1891	sce_1405	3.00E-06	6.00E-06
SCE1572_1892	sce_1406	4.00E-155	2.00E-159
SCE1572_1893	sce_1407	3.00E-70	4.00E-71
SCE1572_1894	sce_1408	0.00E+00	3.00E-180
SCE1572_1895	sce_1409	7.00E-67	5.00E-98
SCE1572_1898	sce_1410	0.00E+00	0.00E+00
SCE1572_1899	sce_1411	1.00E-148	1.00E-166
SCE1572_19	sce_19	0.00E+00	0.00E+00
SCE1572_190	sce_3728	5.00E-157	3.00E-167
SCE1572_1902	sce_1414	0.00E+00	0.00E+00
SCE1572_1903	sce_1415	0.00E+00	0.00E+00
SCE1572_1905	sce_1416	3.00E-34	9.00E-30
SCE1572_1906	sce_1417	0.00E+00	0.00E+00
SCE1572_1907	sce_1418	0.00E+00	0.00E+00
SCE1572_1908	sce_1419	6.00E-106	4.00E-106
SCE1572_1914	sce_1421	7.00E-128	2.00E-136
SCE1572_1915	sce_1422	0.00E+00	0.00E+00
SCE1572_1917	sce_1436	5.00E-94	6.00E-97
SCE1572_1918	sce_1437	2.00E-107	5.00E-100
SCE1572_1919	sce_1438	0.00E+00	0.00E+00
SCE1572_1920	sce_1439	9.00E-134	2.00E-143
SCE1572_1922	sce_1440	5.00E-132	7.00E-150
SCE1572_1923	sce_1441	0.00E+00	1.00E-174
SCE1572_1924	sce_1442	0.00E+00	0.00E+00
SCE1572_1925	sce_1443	9.00E-16	1.00E-15
SCE1572_1926	sce_1444	0.00E+00	0.00E+00
SCE1572_1926	sce_2656	0.00E+00	0.00E+00
SCE1572_1927	sce_1445	0.00E+00	0.00E+00
SCE1572_1928	sce_1446	9.00E-119	7.00E-125
SCE1572_1929	sce_1447	8.00E-140	0.00E+00
SCE1572_1930	sce_1448	0.00E+00	0.00E+00
SCE1572_1931	sce_2577	0.00E+00	0.00E+00
SCE1572_1932	sce_1449	0.00E+00	0.00E+00
SCE1572_1934	sce_1450	1.00E-67	1.00E-67
SCE1572_1946	sce_5198	3.00E-26	2.00E-23
SCE1572_1948	sce_1316	3.00E-79	7.00E-72
SCE1572_1950	sce_848	1.00E-89	9.00E-93
SCE1572_1951	sce_849	2.00E-57	7.00E-65
SCE1572_1952	sce_850	1.00E-60	4.00E-59
SCE1572_1953	sce_1455	5.00E-86	5.00E-86
SCE1572_1954	sce_6015	2.00E-90	2.00E-90
SCE1572_1955	sce_1456	9.00E-78	9.00E-78
SCE1572_1956	sce_1457	2.00E-81	1.00E-116
SCE1572_1957	sce_6060	2.00E-44	5.00E-38
SCE1572_1958	sce_2565	1.00E-115	8.00E-114
SCE1572_1960	sce_1462	0.00E+00	0.00E+00
SCE1572_1961	sce_1463	0.00E+00	0.00E+00
SCE1572_1962	sce_1464	0.00E+00	0.00E+00
SCE1572_1963	sce_1465	3.00E-112	4.00E-111
SCE1572_1964	sce_1466	5.00E-103	4.00E-103
SCE1572_1965	sce_1467	1.00E-132	1.00E-132
SCE1572_1966	sce_1468	1.00E-177	0.00E+00
SCE1572_1967	sce_1470	4.00E-55	2.00E-55
SCE1572_1969	sce_1471	4.00E-67	3.00E-71
SCE1572_1971	sce_1472	1.00E-83	4.00E-76

SCE1572_1972	sce_1473	0.00E+00	0.00E+00
SCE1572_1975	sce_1474	0.00E+00	0.00E+00
SCE1572_1976	sce_1475	0.00E+00	0.00E+00
SCE1572_199	sce_173	0.00E+00	0.00E+00
SCE1572_1993	sce_1476	1.00E-117	4.00E-108
SCE1572_1994	sce_1477	0.00E+00	0.00E+00
SCE1572_1995	sce_1478	0.00E+00	0.00E+00
SCE1572_1995	sce_5487	0.00E+00	0.00E+00
SCE1572_1996	sce_1479	0.00E+00	0.00E+00
SCE1572_1996	sce_5486	0.00E+00	0.00E+00
SCE1572_1997	sce_1480	2.00E-14	8.00E-11
SCE1572_1998	sce_1481	1.00E-78	1.00E-80
SCE1572_1999	sce_1482	2.00E-57	6.00E-63
SCE1572_2	sce_2	0.00E+00	0.00E+00
SCE1572_20	sce_20	2.00E-158	0.00E+00
SCE1572_200	sce_6011	2.00E-59	8.00E-62
SCE1572_2000	sce_1483	2.00E-28	7.00E-29
SCE1572_2001	sce_1484	1.00E-92	8.00E-96
SCE1572_2002	sce_3672	5.00E-62	3.00E-61
SCE1572_2003	sce_1486	9.00E-65	1.00E-55
SCE1572_2005	sce_8025	2.00E-105	8.00E-98
SCE1572_2009	sce_1587	3.00E-16	1.00E-15
SCE1572_2014	sce_6082	1.00E-104	1.00E-85
SCE1572_2016	sce_1496	0.00E+00	0.00E+00
SCE1572_2017	sce_1497	0.00E+00	0.00E+00
SCE1572_2018	sce_1498	1.00E-74	3.00E-81
SCE1572_2019	sce_1499	0.00E+00	0.00E+00
SCE1572_2020	sce_1500	9.00E-88	1.00E-90
SCE1572_2022	sce_3705	0.00E+00	0.00E+00
SCE1572_2023	sce_5152	2.00E-133	7.00E-143
SCE1572_2024	sce_1510	0.00E+00	5.00E-176
SCE1572_2025	sce_1511	4.00E-168	4.00E-172
SCE1572_2026	sce_9276	9.00E-77	3.00E-75
SCE1572_2028	sce_1517	3.00E-75	3.00E-75
SCE1572_2029	sce_1512	2.00E-156	2.00E-156
SCE1572_203	sce_1460	6.00E-107	2.00E-108
SCE1572_2030	sce_8774	2.00E-14	3.00E-21
SCE1572_2031	sce_1513	4.00E-74	4.00E-74
SCE1572_2032	sce_1515	4.00E-54	7.00E-51
SCE1572_2033	sce_1676	0.00E+00	0.00E+00
SCE1572_2036	sce_1518	5.00E-49	7.00E-50
SCE1572_2038	sce_1519	8.00E-88	6.00E-91
SCE1572_2039	sce_1520	2.00E-35	2.00E-44
SCE1572_2040	sce_1521	5.00E-114	3.00E-114
SCE1572_2041	sce_1679	1.00E-70	6.00E-79
SCE1572_2042	sce_1522	3.00E-151	3.00E-137
SCE1572_2043	sce_1523	6.00E-103	1.00E-110
SCE1572_2045	sce_1527	0.00E+00	3.00E-174
SCE1572_2046	sce_1529	6.00E-131	9.00E-118
SCE1572_2048	sce_1530	1.00E-46	3.00E-55
SCE1572_205	sce_6005	0.00E+00	0.00E+00
SCE1572_2054	sce_1546	2.00E-127	1.00E-132
SCE1572_2055	sce_1567	7.00E-90	1.00E-75
SCE1572_2059	sce_1569	1.00E-138	3.00E-134
SCE1572_2064	sce_3848	2.00E-14	1.00E-14
SCE1572_2065	sce_1576	4.00E-173	2.00E-174
SCE1572_2066	sce_1577	0.00E+00	0.00E+00
SCE1572_2067	sce_1578	2.00E-156	8.00E-153
SCE1572_2069	sce_1579	0.00E+00	1.00E-141
SCE1572_2071	sce_1583	4.00E-25	3.00E-14
SCE1572_2072	sce_1588	0.00E+00	0.00E+00
SCE1572_2074	sce_1589	1.00E-71	1.00E-51
SCE1572_2075	sce_1590	1.00E-33	1.00E-31
SCE1572_2076	sce_1591	0.00E+00	0.00E+00
SCE1572_2077	sce_10225	3.00E-117	1.00E-127
SCE1572_2078	sce_7460	3.00E-128	3.00E-140
SCE1572_2080	sce_1592	7.00E-170	2.00E-177
SCE1572_2081	sce_1593	0.00E+00	0.00E+00
SCE1572_2082	sce_1594	1.00E-69	2.00E-66
SCE1572_2086	sce_1596	0.00E+00	0.00E+00
SCE1572_2089	sce_5892	7.00E-50	4.00E-45
SCE1572_2092	sce_7399	4.00E-55	9.00E-43
SCE1572_2095	sce_1609	4.00E-132	4.00E-133
SCE1572_2096	sce_1610	2.00E-53	5.00E-61
SCE1572_2097	sce_1611	1.00E-62	1.00E-62
SCE1572_2098	sce_1612	1.00E-113	7.00E-113

SCE1572_2099	sce_1613	3.00E-140	1.00E-144
SCE1572_21	sce_22	2.00E-28	1.00E-31
SCE1572_2100	sce_1614	2.00E-18	1.00E-29
SCE1572_2101	sce_1617	4.00E-70	2.00E-65
SCE1572_2102	sce_1618	1.00E-137	2.00E-137
SCE1572_2103	sce_1619	0.00E+00	0.00E+00
SCE1572_2104	sce_1620	1.00E-170	3.00E-177
SCE1572_2105	sce_1621	2.00E-133	3.00E-133
SCE1572_2106	sce_1622	8.00E-137	1.00E-142
SCE1572_2107	sce_1623	0.00E+00	0.00E+00
SCE1572_2108	sce_1624	1.00E-122	1.00E-147
SCE1572_2109	sce_1625	2.00E-47	3.00E-47
SCE1572_2110	sce_1626	4.00E-163	9.00E-163
SCE1572_2111	sce_1627	0.00E+00	0.00E+00
SCE1572_2114	sce_1629	2.00E-131	6.00E-138
SCE1572_2115	sce_1630	0.00E+00	0.00E+00
SCE1572_2117	sce_1631	0.00E+00	0.00E+00
SCE1572_2119	sce_1632	2.00E-87	6.00E-73
SCE1572_2120	sce_1633	0.00E+00	0.00E+00
SCE1572_2121	sce_1634	3.00E-34	3.00E-34
SCE1572_2123	sce_1635	2.00E-164	5.00E-160
SCE1572_2125	sce_1645	0.00E+00	0.00E+00
SCE1572_2126	sce_1646	6.00E-19	1.00E-25
SCE1572_2128	sce_1647	7.00E-155	2.00E-149
SCE1572_2129	sce_1648	1.00E-74	1.00E-84
SCE1572_2130	sce_1649	1.00E-36	1.00E-35
SCE1572_2131	sce_1650	8.00E-13	7.00E-14
SCE1572_2132	sce_1652	4.00E-110	5.00E-117
SCE1572_2136	sce_1655	6.00E-93	8.00E-93
SCE1572_2137	sce_1656	1.00E-169	5.00E-147
SCE1572_2139	sce_7075	4.00E-99	5.00E-131
SCE1572_214	sce_2177	6.00E-49	2.00E-55
SCE1572_2142	sce_1658	0.00E+00	0.00E+00
SCE1572_2143	sce_1666	0.00E+00	0.00E+00
SCE1572_2144	sce_1667	0.00E+00	0.00E+00
SCE1572_2145	sce_1668	0.00E+00	0.00E+00
SCE1572_2148	sce_841	0.00E+00	0.00E+00
SCE1572_215	sce_6003	3.00E-179	3.00E-179
SCE1572_2151	sce_1719	1.00E-127	7.00E-131
SCE1572_2152	sce_1720	3.00E-105	4.00E-105
SCE1572_2153	sce_1721	3.00E-95	3.00E-95
SCE1572_2154	sce_1722	1.00E-100	3.00E-101
SCE1572_2161	sce_389	0.00E+00	0.00E+00
SCE1572_2161	sce_2666	0.00E+00	0.00E+00
SCE1572_2161	sce_7637	0.00E+00	0.00E+00
SCE1572_2161	sce_9237	0.00E+00	0.00E+00
SCE1572_2163	sce_175	3.00E-136	3.00E-145
SCE1572_2170	sce_5759	0.00E+00	0.00E+00
SCE1572_2171	sce_5758	0.00E+00	0.00E+00
SCE1572_2174	sce_764	6.00E-167	2.00E-166
SCE1572_2176	sce_1727	2.00E-66	2.00E-85
SCE1572_2177	sce_1728	6.00E-133	4.00E-128
SCE1572_2178	sce_10158	3.00E-40	3.00E-52
SCE1572_2181	sce_1323	8.00E-105	2.00E-104
SCE1572_2184	sce_6334	3.00E-22	2.00E-33
SCE1572_2185	sce_9438	0.00E+00	0.00E+00
SCE1572_2187	sce_7422	0.00E+00	0.00E+00
SCE1572_219	sce_5881	7.00E-64	7.00E-64
SCE1572_2190	sce_2564	8.00E-80	8.00E-80
SCE1572_2191	sce_7916	0.00E+00	0.00E+00
SCE1572_2193	sce_3807	1.00E-78	3.00E-78
SCE1572_2195	sce_176	3.00E-69	7.00E-77
SCE1572_2196	sce_9450	6.00E-155	1.00E-149
SCE1572_2197	sce_3917	0.00E+00	0.00E+00
SCE1572_2197	sce_6094	0.00E+00	0.00E+00
SCE1572_2197	sce_6092	0.00E+00	0.00E+00
SCE1572_2197	sce_6107	0.00E+00	0.00E+00
SCE1572_2197	sce_6093	0.00E+00	0.00E+00
SCE1572_2197	sce_6095	0.00E+00	0.00E+00
SCE1572_2197	sce_7661	0.00E+00	0.00E+00
SCE1572_2197	sce_388	0.00E+00	0.00E+00
SCE1572_2197	sce_6535	0.00E+00	0.00E+00
SCE1572_2197	sce_9920	0.00E+00	0.00E+00
SCE1572_2197	sce_8602	0.00E+00	0.00E+00
SCE1572_2197	sce_10204	0.00E+00	0.00E+00
SCE1572_2197	sce_4513	0.00E+00	0.00E+00

SCE1572_2197	sce_3003	0.00E+00	0.00E+00
SCE1572_2197	sce_7640	0.00E+00	0.00E+00
SCE1572_2197	sce_5835	0.00E+00	0.00E+00
SCE1572_2197	sce_9557	0.00E+00	0.00E+00
SCE1572_2197	sce_3085	0.00E+00	0.00E+00
SCE1572_2199	sce_1746	0.00E+00	0.00E+00
SCE1572_22	sce_23	0.00E+00	0.00E+00
SCE1572_2200	sce_1747	3.00E-175	3.00E-175
SCE1572_2201	sce_1748	0.00E+00	0.00E+00
SCE1572_2202	sce_1749	7.00E-74	6.00E-82
SCE1572_2203	sce_1750	4.00E-149	2.00E-151
SCE1572_2204	sce_1751	3.00E-137	3.00E-129
SCE1572_2205	sce_1752	3.00E-36	3.00E-36
SCE1572_2206	sce_1753	2.00E-148	2.00E-141
SCE1572_2207	sce_1754	2.00E-58	1.00E-56
SCE1572_2209	sce_1755	1.00E-115	2.00E-121
SCE1572_2210	sce_1586	6.00E-24	5.00E-29
SCE1572_2212	sce_1756	3.00E-85	2.00E-53
SCE1572_2215	sce_1759	2.00E-141	5.00E-165
SCE1572_2216	sce_1760	6.00E-115	9.00E-123
SCE1572_2218	sce_1762	0.00E+00	0.00E+00
SCE1572_222	sce_10163	2.00E-124	2.00E-124
SCE1572_2222	sce_1765	3.00E-36	2.00E-29
SCE1572_2223	sce_1766	3.00E-119	8.00E-121
SCE1572_2226	sce_1775	4.00E-76	2.00E-64
SCE1572_2227	sce_1103	1.00E-118	1.00E-115
SCE1572_2228	sce_1776	0.00E+00	0.00E+00
SCE1572_2229	sce_1777	2.00E-64	7.00E-65
SCE1572_223	sce_9852	6.00E-109	2.00E-117
SCE1572_2230	sce_1778	0.00E+00	0.00E+00
SCE1572_2231	sce_1779	4.00E-95	4.00E-95
SCE1572_2232	sce_1780	2.00E-65	2.00E-65
SCE1572_2233	sce_1781	0.00E+00	0.00E+00
SCE1572_2234	sce_1782	2.00E-150	5.00E-133
SCE1572_2235	sce_1783	0.00E+00	4.00E-178
SCE1572_2236	sce_1784	0.00E+00	0.00E+00
SCE1572_2237	sce_1785	8.00E-56	9.00E-56
SCE1572_2238	sce_1786	3.00E-163	2.00E-172
SCE1572_2239	sce_1787	3.00E-125	7.00E-136
SCE1572_224	sce_9851	3.00E-115	1.00E-123
SCE1572_2242	sce_1794	2.00E-104	5.00E-114
SCE1572_2246	sce_1793	8.00E-33	5.00E-32
SCE1572_2249	sce_1790	3.00E-62	1.00E-67
SCE1572_2251	sce_1796	2.00E-35	7.00E-32
SCE1572_2252	sce_1797	3.00E-163	2.00E-162
SCE1572_2253	sce_1798	5.00E-156	2.00E-165
SCE1572_2254	sce_1799	2.00E-122	2.00E-150
SCE1572_2255	sce_1800	2.00E-80	2.00E-80
SCE1572_2256	sce_1801	0.00E+00	0.00E+00
SCE1572_2258	sce_1803	0.00E+00	0.00E+00
SCE1572_2258	sce_5403	0.00E+00	0.00E+00
SCE1572_2258	sce_5226	0.00E+00	0.00E+00
SCE1572_2258	sce_7154	0.00E+00	0.00E+00
SCE1572_2258	sce_7969	0.00E+00	0.00E+00
SCE1572_2258	sce_4073	0.00E+00	0.00E+00
SCE1572_2258	sce_9665	0.00E+00	0.00E+00
SCE1572_2258	sce_5751	0.00E+00	0.00E+00
SCE1572_2258	sce_2053	0.00E+00	0.00E+00
SCE1572_2258	sce_9954	0.00E+00	0.00E+00
SCE1572_2258	sce_9757	0.00E+00	0.00E+00
SCE1572_2258	sce_5746	0.00E+00	0.00E+00
SCE1572_2258	sce_3491	0.00E+00	0.00E+00
SCE1572_2259	sce_1804	3.00E-106	2.00E-98
SCE1572_226	sce_2494	1.00E-54	9.00E-50
SCE1572_2261	sce_1805	0.00E+00	0.00E+00
SCE1572_2262	sce_1806	0.00E+00	0.00E+00
SCE1572_2263	sce_1807	1.00E-141	8.00E-133
SCE1572_2264	sce_1808	7.00E-71	8.00E-64
SCE1572_2265	sce_1809	4.00E-91	5.00E-84
SCE1572_2266	sce_1810	2.00E-172	0.00E+00
SCE1572_2267	sce_1811	5.00E-125	2.00E-134
SCE1572_2268	sce_1812	0.00E+00	0.00E+00
SCE1572_2269	sce_1813	1.00E-151	3.00E-163
SCE1572_2270	sce_1814	0.00E+00	0.00E+00
SCE1572_2270	sce_9222	0.00E+00	0.00E+00
SCE1572_2270	sce_3148	0.00E+00	0.00E+00

SCE1572_2271	sce_1815	1.00E-163	4.00E-166
SCE1572_2272	sce_1817	0.00E+00	0.00E+00
SCE1572_2273	sce_1818	3.00E-45	5.00E-60
SCE1572_2274	sce_1819	8.00E-31	4.00E-39
SCE1572_2275	sce_1820	0.00E+00	0.00E+00
SCE1572_2276	sce_1821	0.00E+00	0.00E+00
SCE1572_2277	sce_1822	0.00E+00	0.00E+00
SCE1572_2278	sce_1823	4.00E-127	1.00E-134
SCE1572_2279	sce_1824	0.00E+00	0.00E+00
SCE1572_2280	sce_1826	0.00E+00	0.00E+00
SCE1572_2281	sce_1827	1.00E-100	5.00E-91
SCE1572_2282	sce_1828	1.00E-104	1.00E-108
SCE1572_2283	sce_1829	0.00E+00	0.00E+00
SCE1572_2284	sce_1831	4.00E-49	5.00E-49
SCE1572_2285	sce_1832	2.00E-38	2.00E-38
SCE1572_2286	sce_1833	4.00E-66	1.00E-65
SCE1572_2287	sce_1834	2.00E-68	2.00E-68
SCE1572_2288	sce_1835	6.00E-136	1.00E-126
SCE1572_2289	sce_1836	7.00E-27	7.00E-27
SCE1572_2290	sce_1837	3.00E-72	4.00E-82
SCE1572_2291	sce_1838	0.00E+00	0.00E+00
SCE1572_2292	sce_1840	2.00E-65	2.00E-65
SCE1572_2293	sce_1841	0.00E+00	2.00E-178
SCE1572_2294	sce_1842	0.00E+00	0.00E+00
SCE1572_2296	sce_1843	9.00E-162	2.00E-164
SCE1572_2297	sce_1844	3.00E-75	3.00E-48
SCE1572_2298	sce_1845	6.00E-71	5.00E-71
SCE1572_2299	sce_1846	2.00E-85	1.00E-85
SCE1572_23	sce_24	2.00E-130	2.00E-125
SCE1572_230	sce_3089	2.00E-21	1.00E-21
SCE1572_2300	sce_1847	9.00E-128	2.00E-122
SCE1572_2301	sce_1848	3.00E-32	3.00E-33
SCE1572_2302	sce_1849	0.00E+00	0.00E+00
SCE1572_2303	sce_1850	0.00E+00	0.00E+00
SCE1572_2304	sce_1851	5.00E-169	2.00E-170
SCE1572_2305	sce_1852	3.00E-168	2.00E-164
SCE1572_2306	sce_1853	5.00E-157	5.00E-162
SCE1572_2307	sce_1854	3.00E-118	1.00E-124
SCE1572_2308	sce_1855	0.00E+00	0.00E+00
SCE1572_2309	sce_1856	1.00E-121	1.00E-125
SCE1572_2310	sce_1857	0.00E+00	0.00E+00
SCE1572_2311	sce_1858	0.00E+00	0.00E+00
SCE1572_2312	sce_1859	5.00E-173	3.00E-173
SCE1572_2313	sce_1860	6.00E-138	5.00E-140
SCE1572_2314	sce_1861	6.00E-93	7.00E-89
SCE1572_2315	sce_1862	1.00E-15	1.00E-15
SCE1572_2316	sce_1863	6.00E-170	0.00E+00
SCE1572_2317	sce_1864	1.00E-63	6.00E-63
SCE1572_2318	sce_1865	2.00E-40	2.00E-40
SCE1572_2319	sce_1866	6.00E-101	9.00E-113
SCE1572_2320	sce_1867	2.00E-109	4.00E-129
SCE1572_2321	sce_1868	8.00E-61	7.00E-61
SCE1572_2322	sce_1869	6.00E-109	3.00E-119
SCE1572_2323	sce_1870	0.00E+00	0.00E+00
SCE1572_2324	sce_1871	1.00E-56	2.00E-56
SCE1572_2325	sce_1872	6.00E-138	1.00E-151
SCE1572_2326	sce_1873	1.00E-96	2.00E-103
SCE1572_2327	sce_1875	0.00E+00	0.00E+00
SCE1572_2328	sce_1877	3.00E-146	3.00E-151
SCE1572_2329	sce_1878	0.00E+00	0.00E+00
SCE1572_2330	sce_1879	0.00E+00	0.00E+00
SCE1572_2331	sce_10208	1.00E-41	6.00E-41
SCE1572_2332	sce_10207	5.00E-100	3.00E-104
SCE1572_2333	sce_1883	0.00E+00	0.00E+00
SCE1572_2335	sce_1885	1.00E-112	3.00E-128
SCE1572_2336	sce_1886	2.00E-158	0.00E+00
SCE1572_2337	sce_1887	7.00E-59	3.00E-45
SCE1572_2338	sce_1888	3.00E-120	5.00E-139
SCE1572_2339	sce_1889	3.00E-88	1.00E-90
SCE1572_234	sce_5301	4.00E-44	3.00E-45
SCE1572_2341	sce_1890	7.00E-69	5.00E-76
SCE1572_2342	sce_1891	2.00E-34	2.00E-34
SCE1572_2343	sce_1893	1.00E-72	1.00E-72
SCE1572_2344	sce_1894	0.00E+00	0.00E+00
SCE1572_2345	sce_1895	1.00E-80	2.00E-80
SCE1572_2346	sce_1896	7.00E-69	6.00E-69

SCE1572_2347	sce_1897	9.00E-98	9.00E-98
SCE1572_2348	sce_1898	2.00E-125	6.00E-125
SCE1572_2349	sce_1899	1.00E-144	2.00E-142
SCE1572_235	sce_5302	4.00E-38	4.00E-38
SCE1572_2351	sce_1902	0.00E+00	0.00E+00
SCE1572_2352	sce_1903	1.00E-75	1.00E-78
SCE1572_2353	sce_1904	1.00E-37	3.00E-51
SCE1572_2354	sce_1905	2.00E-109	2.00E-109
SCE1572_2355	sce_1906	1.00E-128	2.00E-118
SCE1572_2356	sce_1907	0.00E+00	0.00E+00
SCE1572_2357	sce_1908	4.00E-91	4.00E-91
SCE1572_2358	sce_1909	6.00E-125	2.00E-125
SCE1572_2359	sce_1910	4.00E-121	2.00E-133
SCE1572_2361	sce_1912	0.00E+00	0.00E+00
SCE1572_2362	sce_1913	0.00E+00	0.00E+00
SCE1572_2363	sce_1914	7.00E-52	3.00E-60
SCE1572_2364	sce_1915	5.00E-16	1.00E-21
SCE1572_2365	sce_1916	2.00E-110	6.00E-94
SCE1572_2366	sce_1917	0.00E+00	0.00E+00
SCE1572_2368	sce_1918	1.00E-94	1.00E-98
SCE1572_2369	sce_1919	6.00E-27	1.00E-27
SCE1572_237	sce_5613	2.00E-23	1.00E-23
SCE1572_2370	sce_1920	2.00E-159	0.00E+00
SCE1572_2371	sce_1921	0.00E+00	0.00E+00
SCE1572_2372	sce_1922	0.00E+00	0.00E+00
SCE1572_2373	sce_1923	2.00E-41	5.00E-37
SCE1572_2374	sce_1925	2.00E-54	2.00E-54
SCE1572_2375	sce_1926	2.00E-45	2.00E-45
SCE1572_2376	sce_1927	0.00E+00	0.00E+00
SCE1572_2377	sce_1928	2.00E-32	6.00E-58
SCE1572_2378	sce_1929	2.00E-51	2.00E-51
SCE1572_2379	sce_1930	1.00E-91	3.00E-91
SCE1572_238	sce_5612	2.00E-12	2.00E-12
SCE1572_2380	sce_1931	1.00E-101	5.00E-88
SCE1572_2381	sce_1932	0.00E+00	0.00E+00
SCE1572_2382	sce_1933	2.00E-133	3.00E-136
SCE1572_2383	sce_1935	1.00E-143	1.00E-138
SCE1572_2384	sce_1937	8.00E-93	1.00E-93
SCE1572_2385	sce_1938	0.00E+00	0.00E+00
SCE1572_2386	sce_1939	0.00E+00	0.00E+00
SCE1572_2387	sce_1940	0.00E+00	0.00E+00
SCE1572_2389	sce_1941	9.00E-35	3.00E-31
SCE1572_2390	sce_1942	0.00E+00	0.00E+00
SCE1572_2392	sce_1945	0.00E+00	0.00E+00
SCE1572_2393	sce_1946	1.00E-155	3.00E-154
SCE1572_2394	sce_1947	0.00E+00	0.00E+00
SCE1572_2395	sce_1948	0.00E+00	0.00E+00
SCE1572_2396	sce_1950	4.00E-96	5.00E-119
SCE1572_2397	sce_1951	1.00E-24	1.00E-24
SCE1572_2398	sce_1952	2.00E-54	2.00E-49
SCE1572_2399	sce_1953	8.00E-78	8.00E-78
SCE1572_24	sce_25	0.00E+00	0.00E+00
SCE1572_2400	sce_1954	0.00E+00	0.00E+00
SCE1572_2401	sce_1955	2.00E-80	2.00E-79
SCE1572_2402	sce_1956	5.00E-70	5.00E-70
SCE1572_2403	sce_1957	2.00E-79	4.00E-78
SCE1572_2404	sce_1958	7.00E-94	2.00E-101
SCE1572_2405	sce_1959	0.00E+00	0.00E+00
SCE1572_2406	sce_1960	2.00E-150	4.00E-142
SCE1572_2407	sce_1961	4.00E-165	1.00E-160
SCE1572_2408	sce_1962	3.00E-108	1.00E-107
SCE1572_2409	sce_1963	3.00E-68	3.00E-68
SCE1572_241	sce_10193	0.00E+00	0.00E+00
SCE1572_241	sce_3499	0.00E+00	0.00E+00
SCE1572_241	sce_8817	0.00E+00	0.00E+00
SCE1572_2410	sce_1964	9.00E-174	9.00E-174
SCE1572_2411	sce_1965	3.00E-113	1.00E-118
SCE1572_2412	sce_1966	0.00E+00	0.00E+00
SCE1572_2413	sce_1967	3.00E-84	3.00E-84
SCE1572_2414	sce_1968	0.00E+00	0.00E+00
SCE1572_2415	sce_1969	2.00E-21	1.00E-24
SCE1572_2416	sce_1970	7.00E-17	2.00E-14
SCE1572_2418	sce_1971	2.00E-41	2.00E-39
SCE1572_2419	sce_1973	0.00E+00	0.00E+00
SCE1572_2420	sce_1974	0.00E+00	0.00E+00
SCE1572_2421	sce_1975	2.00E-113	4.00E-118

SCE1572_2423	sce_1976	2.00E-43	1.00E-43
SCE1572_2424	sce_1977	1.00E-159	2.00E-159
SCE1572_2425	sce_1978	0.00E+00	0.00E+00
SCE1572_2426	sce_1979	3.00E-146	3.00E-146
SCE1572_2427	sce_1980	0.00E+00	0.00E+00
SCE1572_2428	sce_1981	2.00E-69	3.00E-69
SCE1572_2429	sce_1982	3.00E-76	3.00E-76
SCE1572_2430	sce_1983	0.00E+00	0.00E+00
SCE1572_2431	sce_1985	7.00E-79	4.00E-67
SCE1572_2432	sce_1986	6.00E-169	7.00E-171
SCE1572_2433	sce_1987	4.00E-102	1.00E-104
SCE1572_2434	sce_1988	0.00E+00	0.00E+00
SCE1572_2435	sce_1989	7.00E-156	1.00E-153
SCE1572_2436	sce_1990	3.00E-88	6.00E-93
SCE1572_2437	sce_1991	2.00E-42	8.00E-45
SCE1572_2438	sce_1992	1.00E-136	1.00E-135
SCE1572_2439	sce_1993	3.00E-115	2.00E-127
SCE1572_244	sce_8398	5.00E-73	3.00E-82
SCE1572_2440	sce_1994	0.00E+00	0.00E+00
SCE1572_2441	sce_1995	0.00E+00	0.00E+00
SCE1572_2442	sce_1997	4.00E-81	2.00E-75
SCE1572_2443	sce_8759	3.00E-18	3.00E-17
SCE1572_2444	sce_1996	3.00E-112	7.00E-100
SCE1572_2446	sce_1998	0.00E+00	0.00E+00
SCE1572_245	sce_513	7.00E-52	3.00E-62
SCE1572_2453	sce_1999	0.00E+00	0.00E+00
SCE1572_2454	sce_2000	8.00E-148	2.00E-162
SCE1572_2455	sce_2001	5.00E-177	2.00E-180
SCE1572_2456	sce_2002	1.00E-60	2.00E-62
SCE1572_2458	sce_2003	4.00E-165	3.00E-169
SCE1572_2459	sce_2004	2.00E-100	2.00E-102
SCE1572_2464	sce_2005	0.00E+00	0.00E+00
SCE1572_2466	sce_2006	2.00E-162	4.00E-159
SCE1572_2467	sce_2007	0.00E+00	0.00E+00
SCE1572_2468	sce_2010	3.00E-148	3.00E-148
SCE1572_2469	sce_2011	9.00E-133	3.00E-112
SCE1572_2471	sce_2012	0.00E+00	0.00E+00
SCE1572_2472	sce_2013	4.00E-39	1.00E-52
SCE1572_2473	sce_2014	5.00E-75	1.00E-79
SCE1572_2474	sce_2015	1.00E-179	0.00E+00
SCE1572_2475	sce_2016	0.00E+00	0.00E+00
SCE1572_2476	sce_2017	1.00E-81	6.00E-89
SCE1572_2477	sce_2018	1.00E-137	1.00E-147
SCE1572_2478	sce_2019	7.00E-129	4.00E-118
SCE1572_2479	sce_2020	4.00E-69	4.00E-69
SCE1572_2481	sce_7593	3.00E-115	8.00E-109
SCE1572_2482	sce_2042	0.00E+00	0.00E+00
SCE1572_2486	sce_2056	1.00E-116	2.00E-132
SCE1572_2487	sce_2058	8.00E-129	3.00E-137
SCE1572_2489	sce_2059	3.00E-33	1.00E-37
SCE1572_2490	sce_2066	0.00E+00	0.00E+00
SCE1572_2494	sce_2073	4.00E-180	0.00E+00
SCE1572_2495	sce_2074	6.00E-113	5.00E-113
SCE1572_2497	sce_2075	0.00E+00	0.00E+00
SCE1572_2499	sce_2419	0.00E+00	0.00E+00
SCE1572_25	sce_27	5.00E-83	2.00E-69
SCE1572_2500	sce_2418	2.00E-134	9.00E-119
SCE1572_2503	sce_7548	2.00E-157	6.00E-161
SCE1572_2504	sce_3033	2.00E-69	2.00E-69
SCE1572_2505	sce_3034	3.00E-113	1.00E-113
SCE1572_251	sce_7318	0.00E+00	0.00E+00
SCE1572_251	sce_1116	0.00E+00	0.00E+00
SCE1572_251	sce_5158	0.00E+00	0.00E+00
SCE1572_2510	sce_2355	4.00E-13	4.00E-10
SCE1572_2511	sce_2094	4.00E-135	5.00E-139
SCE1572_2517	sce_8744	1.00E-10	1.00E-10
SCE1572_2519	sce_2437	0.00E+00	0.00E+00
SCE1572_2520	sce_2097	1.00E-150	2.00E-160
SCE1572_2521	sce_2098	9.00E-89	1.00E-98
SCE1572_2522	sce_2099	2.00E-93	2.00E-113
SCE1572_2524	sce_2100	9.00E-57	1.00E-79
SCE1572_2525	sce_2101	0.00E+00	0.00E+00
SCE1572_2526	sce_2102	2.00E-138	6.00E-117
SCE1572_2527	sce_3701	9.00E-99	9.00E-100
SCE1572_253	sce_5453	5.00E-44	7.00E-40
SCE1572_2537	sce_2104	2.00E-73	4.00E-67

SCE1572_2538	sce_2118	0.00E+00	1.00E-179
SCE1572_2539	sce_2119	0.00E+00	0.00E+00
SCE1572_2543	sce_2126	8.00E-52	2.00E-61
SCE1572_2544	sce_5086	0.00E+00	0.00E+00
SCE1572_2544	sce_5085	0.00E+00	0.00E+00
SCE1572_2544	sce_6701	0.00E+00	0.00E+00
SCE1572_2547	sce_2128	0.00E+00	0.00E+00
SCE1572_255	sce_8414	2.00E-22	2.00E-26
SCE1572_2551	sce_2130	0.00E+00	0.00E+00
SCE1572_2553	sce_2131	0.00E+00	0.00E+00
SCE1572_2554	sce_2132	0.00E+00	0.00E+00
SCE1572_2555	sce_2133	3.00E-93	9.00E-101
SCE1572_2557	sce_8817	0.00E+00	0.00E+00
SCE1572_256	sce_8408	6.00E-15	3.00E-16
SCE1572_2560	sce_2134	2.00E-30	7.00E-40
SCE1572_2561	sce_2135	1.00E-147	8.00E-137
SCE1572_2562	sce_2136	0.00E+00	0.00E+00
SCE1572_2563	sce_2137	4.00E-122	1.00E-122
SCE1572_2564	sce_2138	9.00E-40	7.00E-35
SCE1572_2567	sce_2139	0.00E+00	0.00E+00
SCE1572_2568	sce_2140	5.00E-22	7.00E-31
SCE1572_2570	sce_2143	2.00E-23	2.00E-23
SCE1572_2573	sce_2144	8.00E-99	2.00E-104
SCE1572_2574	sce_2145	2.00E-74	8.00E-64
SCE1572_2575	sce_2146	0.00E+00	0.00E+00
SCE1572_2577	sce_2148	2.00E-159	8.00E-153
SCE1572_2578	sce_2156	0.00E+00	0.00E+00
SCE1572_258	sce_8407	6.00E-78	2.00E-75
SCE1572_2581	sce_2162	2.00E-58	3.00E-59
SCE1572_2586	sce_6226	0.00E+00	0.00E+00
SCE1572_2587	sce_6227	7.00E-29	1.00E-28
SCE1572_2588	sce_3750	0.00E+00	0.00E+00
SCE1572_2588	sce_6712	0.00E+00	0.00E+00
SCE1572_2588	sce_9954	0.00E+00	0.00E+00
SCE1572_2588	sce_5226	0.00E+00	0.00E+00
SCE1572_2588	sce_5751	0.00E+00	0.00E+00
SCE1572_2589	sce_6703	0.00E+00	0.00E+00
SCE1572_259	sce_8408	1.00E-15	3.00E-16
SCE1572_2594	sce_2174	0.00E+00	0.00E+00
SCE1572_26	sce_28	9.00E-157	0.00E+00
SCE1572_260	sce_6878	2.00E-87	8.00E-93
SCE1572_2604	sce_2186	1.00E-80	4.00E-74
SCE1572_2605	sce_2187	2.00E-137	1.00E-124
SCE1572_2606	sce_2188	1.00E-43	2.00E-42
SCE1572_2608	sce_2189	0.00E+00	0.00E+00
SCE1572_2609	sce_2190	7.00E-84	7.00E-84
SCE1572_2610	sce_2192	1.00E-124	1.00E-116
SCE1572_2612	sce_2195	0.00E+00	4.00E-125
SCE1572_2613	sce_2196	8.00E-63	3.00E-54
SCE1572_2614	sce_2199	1.00E-66	3.00E-55
SCE1572_2615	sce_2200	0.00E+00	0.00E+00
SCE1572_2616	sce_7835	1.00E-65	3.00E-49
SCE1572_2617	sce_2202	2.00E-38	1.00E-38
SCE1572_2619	sce_2204	0.00E+00	0.00E+00
SCE1572_262	sce_4682	2.00E-111	8.00E-96
SCE1572_2620	sce_3715	0.00E+00	0.00E+00
SCE1572_2621	sce_3716	0.00E+00	0.00E+00
SCE1572_2624	sce_5143	0.00E+00	0.00E+00
SCE1572_2626	sce_8582	2.00E-79	2.00E-83
SCE1572_2627	sce_5133	0.00E+00	0.00E+00
SCE1572_2628	sce_5134	0.00E+00	0.00E+00
SCE1572_2629	sce_5147	0.00E+00	0.00E+00
SCE1572_2629	sce_4662	0.00E+00	0.00E+00
SCE1572_2630	sce_4663	0.00E+00	0.00E+00
SCE1572_2630	sce_5148	0.00E+00	0.00E+00
SCE1572_2631	sce_5156	0.00E+00	0.00E+00
SCE1572_2632	sce_1664	0.00E+00	0.00E+00
SCE1572_2632	sce_5137	0.00E+00	0.00E+00
SCE1572_2633	sce_5137	0.00E+00	0.00E+00
SCE1572_2633	sce_1664	0.00E+00	0.00E+00
SCE1572_2634	sce_5138	0.00E+00	0.00E+00
SCE1572_2634	sce_1665	0.00E+00	0.00E+00
SCE1572_2635	sce_3717	1.00E-165	2.00E-162
SCE1572_2636	sce_3502	3.00E-97	1.00E-102
SCE1572_2637	sce_3712	0.00E+00	0.00E+00
SCE1572_2638	sce_3711	0.00E+00	0.00E+00

SCE1572_2639	sce_3710	1.00E-124	1.00E-124
SCE1572_264	sce_1106	2.00E-39	1.00E-38
SCE1572_2640	sce_3709	2.00E-160	7.00E-155
SCE1572_2641	sce_3708	0.00E+00	0.00E+00
SCE1572_2642	sce_3707	4.00E-121	1.00E-135
SCE1572_2643	sce_3706	6.00E-129	2.00E-133
SCE1572_2644	sce_6530	0.00E+00	1.00E-174
SCE1572_2647	sce_6531	0.00E+00	0.00E+00
SCE1572_2647	sce_9918	0.00E+00	0.00E+00
SCE1572_2647	sce_894	0.00E+00	0.00E+00
SCE1572_265	sce_5651	1.00E-51	5.00E-55
SCE1572_2652	sce_9920	0.00E+00	0.00E+00
SCE1572_2652	sce_6535	0.00E+00	0.00E+00
SCE1572_2652	sce_3003	0.00E+00	0.00E+00
SCE1572_2652	sce_5835	0.00E+00	0.00E+00
SCE1572_2652	sce_10204	0.00E+00	0.00E+00
SCE1572_2652	sce_9557	0.00E+00	0.00E+00
SCE1572_2652	sce_7640	0.00E+00	0.00E+00
SCE1572_2652	sce_388	0.00E+00	0.00E+00
SCE1572_2652	sce_2065	0.00E+00	0.00E+00
SCE1572_2652	sce_4513	0.00E+00	0.00E+00
SCE1572_2652	sce_6092	0.00E+00	0.00E+00
SCE1572_2652	sce_7661	0.00E+00	0.00E+00
SCE1572_2652	sce_6107	0.00E+00	0.00E+00
SCE1572_2652	sce_8618	0.00E+00	0.00E+00
SCE1572_2652	sce_3085	0.00E+00	0.00E+00
SCE1572_2652	sce_6095	0.00E+00	0.00E+00
SCE1572_2652	sce_3917	0.00E+00	0.00E+00
SCE1572_2653	sce_2205	6.00E-110	5.00E-128
SCE1572_2654	sce_2206	3.00E-78	2.00E-84
SCE1572_2655	sce_2207	0.00E+00	0.00E+00
SCE1572_2656	sce_2208	0.00E+00	0.00E+00
SCE1572_2656	sce_3055	0.00E+00	6.00E-166
SCE1572_2657	sce_2209	5.00E-129	4.00E-137
SCE1572_2658	sce_2210	0.00E+00	0.00E+00
SCE1572_2659	sce_2212	0.00E+00	0.00E+00
SCE1572_2661	sce_2213	7.00E-105	1.00E-88
SCE1572_2662	sce_2214	6.00E-45	2.00E-44
SCE1572_2663	sce_2215	4.00E-30	3.00E-39
SCE1572_2664	sce_2216	4.00E-124	2.00E-124
SCE1572_2665	sce_2217	6.00E-107	6.00E-107
SCE1572_2669	sce_2218	0.00E+00	0.00E+00
SCE1572_2670	sce_2219	0.00E+00	0.00E+00
SCE1572_2671	sce_2220	4.00E-136	8.00E-132
SCE1572_2672	sce_2221	3.00E-96	4.00E-113
SCE1572_2673	sce_2222	0.00E+00	0.00E+00
SCE1572_2674	sce_2223	0.00E+00	0.00E+00
SCE1572_2675	sce_2224	2.00E-162	1.00E-156
SCE1572_2676	sce_2225	4.00E-112	2.00E-112
SCE1572_2677	sce_2226	1.00E-70	1.00E-72
SCE1572_2678	sce_2227	3.00E-41	6.00E-51
SCE1572_2679	sce_2228	1.00E-112	4.00E-102
SCE1572_2688	sce_2229	3.00E-54	4.00E-51
SCE1572_2689	sce_2230	4.00E-99	6.00E-99
SCE1572_269	sce_9355	7.00E-28	6.00E-28
SCE1572_2691	sce_2231	0.00E+00	0.00E+00
SCE1572_2692	sce_2232	2.00E-73	2.00E-73
SCE1572_2693	sce_2233	1.00E-140	0.00E+00
SCE1572_2694	sce_2234	1.00E-112	9.00E-107
SCE1572_2695	sce_2235	9.00E-76	4.00E-66
SCE1572_27	sce_29	8.00E-40	1.00E-39
SCE1572_2700	sce_1425	1.00E-20	4.00E-23
SCE1572_2701	sce_6712	0.00E+00	0.00E+00
SCE1572_2701	sce_3750	0.00E+00	0.00E+00
SCE1572_2701	sce_9954	0.00E+00	0.00E+00
SCE1572_2701	sce_5229	0.00E+00	0.00E+00
SCE1572_2701	sce_5226	0.00E+00	0.00E+00
SCE1572_2701	sce_9665	0.00E+00	0.00E+00
SCE1572_2701	sce_5403	0.00E+00	0.00E+00
SCE1572_2701	sce_5751	0.00E+00	0.00E+00
SCE1572_2701	sce_7154	0.00E+00	0.00E+00
SCE1572_2702	sce_2240	0.00E+00	0.00E+00
SCE1572_2703	sce_2241	4.00E-67	4.00E-67
SCE1572_2704	sce_2242	0.00E+00	0.00E+00
SCE1572_2705	sce_2243	5.00E-64	1.00E-56
SCE1572_2706	sce_2244	0.00E+00	0.00E+00

SCE1572_2706	sce_2245	0.00E+00	0.00E+00
SCE1572_2707	sce_2246	4.00E-67	9.00E-66
SCE1572_2708	sce_2247	8.00E-148	3.00E-152
SCE1572_2709	sce_2248	2.00E-76	6.00E-87
SCE1572_271	sce_6076	0.00E+00	0.00E+00
SCE1572_2710	sce_2249	6.00E-75	8.00E-75
SCE1572_2711	sce_2250	1.00E-147	5.00E-151
SCE1572_2712	sce_2251	9.00E-65	3.00E-69
SCE1572_2713	sce_2252	2.00E-138	7.00E-133
SCE1572_2714	sce_2253	1.00E-94	2.00E-94
SCE1572_2715	sce_2254	0.00E+00	0.00E+00
SCE1572_2716	sce_2255	2.00E-126	6.00E-132
SCE1572_2718	sce_2256	0.00E+00	0.00E+00
SCE1572_2719	sce_2257	1.00E-53	1.00E-53
SCE1572_2720	sce_2258	0.00E+00	0.00E+00
SCE1572_2721	sce_2259	1.00E-82	4.00E-70
SCE1572_2722	sce_2260	0.00E+00	0.00E+00
SCE1572_2723	sce_2261	8.00E-67	1.00E-69
SCE1572_2724	sce_2262	4.00E-102	4.00E-122
SCE1572_2725	sce_2263	2.00E-160	1.00E-160
SCE1572_2726	sce_2264	3.00E-111	3.00E-111
SCE1572_2727	sce_2265	4.00E-114	2.00E-119
SCE1572_2728	sce_2266	3.00E-172	3.00E-176
SCE1572_2729	sce_2267	2.00E-149	2.00E-149
SCE1572_273	sce_9375	0.00E+00	0.00E+00
SCE1572_2730	sce_2268	2.00E-165	3.00E-177
SCE1572_2731	sce_2269	0.00E+00	0.00E+00
SCE1572_2732	sce_2270	8.00E-105	5.00E-106
SCE1572_2733	sce_2272	2.00E-92	3.00E-89
SCE1572_2734	sce_2273	2.00E-46	3.00E-46
SCE1572_2735	sce_2274	3.00E-107	2.00E-132
SCE1572_2736	sce_2275	1.00E-139	3.00E-134
SCE1572_2737	sce_2276	0.00E+00	0.00E+00
SCE1572_2738	sce_2277	2.00E-48	2.00E-43
SCE1572_2739	sce_2278	4.00E-139	2.00E-141
SCE1572_2740	sce_2279	2.00E-59	5.00E-67
SCE1572_2741	sce_2280	3.00E-21	1.00E-24
SCE1572_2742	sce_2281	2.00E-88	3.00E-88
SCE1572_2743	sce_2282	4.00E-163	4.00E-175
SCE1572_2744	sce_2283	4.00E-46	2.00E-52
SCE1572_2745	sce_2284	2.00E-116	6.00E-137
SCE1572_2746	sce_2285	8.00E-54	2.00E-62
SCE1572_2747	sce_2286	7.00E-72	6.00E-71
SCE1572_2748	sce_2287	0.00E+00	0.00E+00
SCE1572_2749	sce_2288	3.00E-153	7.00E-175
SCE1572_275	sce_8423	4.00E-111	4.00E-111
SCE1572_2750	sce_2289	1.00E-166	2.00E-166
SCE1572_2751	sce_2290	7.00E-144	5.00E-147
SCE1572_2752	sce_2291	1.00E-161	8.00E-157
SCE1572_2754	sce_2292	9.00E-81	4.00E-79
SCE1572_2758	sce_2304	0.00E+00	0.00E+00
SCE1572_2759	sce_2305	0.00E+00	0.00E+00
SCE1572_2760	sce_2306	3.00E-78	8.00E-70
SCE1572_2761	sce_2307	4.00E-103	1.00E-99
SCE1572_2763	sce_2308	0.00E+00	0.00E+00
SCE1572_2765	sce_2310	7.00E-51	4.00E-76
SCE1572_2766	sce_2311	3.00E-116	3.00E-116
SCE1572_2767	sce_2312	4.00E-56	7.00E-69
SCE1572_2768	sce_2313	2.00E-54	5.00E-55
SCE1572_2769	sce_2314	1.00E-38	7.00E-61
SCE1572_2770	sce_4153	3.00E-21	3.00E-19
SCE1572_2771	sce_7299	2.00E-25	1.00E-25
SCE1572_2774	sce_7302	6.00E-125	1.00E-119
SCE1572_2777	sce_10401	0.00E+00	0.00E+00
SCE1572_2781	sce_2367	2.00E-57	3.00E-54
SCE1572_2782	sce_2368	0.00E+00	0.00E+00
SCE1572_2783	sce_2369	2.00E-80	8.00E-83
SCE1572_2784	sce_5173	6.00E-157	3.00E-169
SCE1572_2787	sce_2372	8.00E-28	2.00E-29
SCE1572_2788	sce_2375	5.00E-48	5.00E-48
SCE1572_2789	sce_2376	7.00E-52	2.00E-49
SCE1572_2790	sce_2381	6.00E-75	3.00E-75
SCE1572_2792	sce_2439	0.00E+00	0.00E+00
SCE1572_2795	sce_2451	4.00E-48	4.00E-48
SCE1572_2796	sce_2449	2.00E-50	3.00E-46
SCE1572_2797	sce_1364	0.00E+00	0.00E+00

SCE1572_2798	sce_1365	1.00E-71	2.00E-69
SCE1572_2799	sce_2462	5.00E-109	3.00E-111
SCE1572_28	sce_30	9.00E-74	5.00E-90
SCE1572_2800	sce_1367	0.00E+00	0.00E+00
SCE1572_2803	sce_6975	3.00E-82	2.00E-91
SCE1572_2804	sce_2463	0.00E+00	0.00E+00
SCE1572_2805	sce_2465	0.00E+00	0.00E+00
SCE1572_2806	sce_4688	4.00E-138	2.00E-130
SCE1572_281	sce_6002	0.00E+00	0.00E+00
SCE1572_2813	sce_10023	2.00E-86	2.00E-86
SCE1572_2814	sce_7618	0.00E+00	0.00E+00
SCE1572_2815	sce_4673	7.00E-128	2.00E-132
SCE1572_2820	sce_7859	9.00E-172	0.00E+00
SCE1572_2821	sce_7860	1.00E-177	2.00E-176
SCE1572_2824	sce_6417	0.00E+00	0.00E+00
SCE1572_2825	sce_1113	6.00E-147	8.00E-137
SCE1572_2826	sce_1112	3.00E-103	5.00E-98
SCE1572_2827	sce_1111	6.00E-39	8.00E-47
SCE1572_2829	sce_1110	1.00E-23	1.00E-23
SCE1572_283	sce_1702	9.00E-83	4.00E-80
SCE1572_2835	sce_521	2.00E-14	2.00E-14
SCE1572_2836	sce_520	3.00E-09	4.00E-09
SCE1572_284	sce_9986	5.00E-93	2.00E-98
SCE1572_2846	sce_514	6.00E-29	4.00E-35
SCE1572_2848	sce_10371	0.00E+00	0.00E+00
SCE1572_2850	sce_10151	1.00E-101	1.00E-101
SCE1572_2858	sce_10022	2.00E-126	6.00E-118
SCE1572_2872	sce_2416	3.00E-14	3.00E-31
SCE1572_2873	sce_1277	1.00E-68	5.00E-68
SCE1572_2875	sce_2477	6.00E-133	1.00E-129
SCE1572_2876	sce_2478	0.00E+00	0.00E+00
SCE1572_2877	sce_2483	2.00E-32	1.00E-30
SCE1572_2878	sce_2484	0.00E+00	0.00E+00
SCE1572_288	sce_6683	2.00E-53	3.00E-57
SCE1572_2883	sce_2505	6.00E-61	5.00E-61
SCE1572_2884	sce_2506	2.00E-139	2.00E-139
SCE1572_2885	sce_2507	3.00E-166	2.00E-174
SCE1572_2886	sce_2508	0.00E+00	0.00E+00
SCE1572_2887	sce_2510	1.00E-14	7.00E-25
SCE1572_2888	sce_2511	9.00E-166	2.00E-166
SCE1572_2895	sce_2512	7.00E-128	1.00E-118
SCE1572_2897	sce_2548	3.00E-91	4.00E-83
SCE1572_2899	sce_2549	6.00E-172	3.00E-159
SCE1572_29	sce_31	2.00E-106	2.00E-106
SCE1572_2912	sce_7637	0.00E+00	0.00E+00
SCE1572_2912	sce_389	0.00E+00	0.00E+00
SCE1572_2912	sce_2666	0.00E+00	0.00E+00
SCE1572_2912	sce_9231	0.00E+00	0.00E+00
SCE1572_2912	sce_9237	0.00E+00	0.00E+00
SCE1572_2913	sce_7637	0.00E+00	0.00E+00
SCE1572_2913	sce_9231	0.00E+00	0.00E+00
SCE1572_2913	sce_389	0.00E+00	0.00E+00
SCE1572_2913	sce_9230	0.00E+00	0.00E+00
SCE1572_2913	sce_2666	0.00E+00	0.00E+00
SCE1572_2913	sce_9237	0.00E+00	0.00E+00
SCE1572_2914	sce_7637	0.00E+00	0.00E+00
SCE1572_2914	sce_389	0.00E+00	0.00E+00
SCE1572_2914	sce_2666	0.00E+00	0.00E+00
SCE1572_2914	sce_9230	0.00E+00	0.00E+00
SCE1572_2914	sce_9237	0.00E+00	0.00E+00
SCE1572_2914	sce_9231	0.00E+00	0.00E+00
SCE1572_2915	sce_4641	0.00E+00	0.00E+00
SCE1572_2916	sce_6296	4.00E-128	7.00E-128
SCE1572_2917	sce_2550	5.00E-132	1.00E-109
SCE1572_2926	sce_6392	2.00E-36	2.00E-29
SCE1572_2932	sce_2553	0.00E+00	0.00E+00
SCE1572_2934	sce_2554	3.00E-129	6.00E-148
SCE1572_2935	sce_2555	2.00E-14	6.00E-10
SCE1572_2936	sce_2556	1.00E-35	6.00E-36
SCE1572_2950	sce_7501	6.00E-08	8.00E-08
SCE1572_2954	sce_3808	1.00E-69	1.00E-70
SCE1572_2957	sce_2577	0.00E+00	0.00E+00
SCE1572_2960	sce_5463	3.00E-141	4.00E-143
SCE1572_2961	sce_2578	0.00E+00	0.00E+00
SCE1572_2963	sce_2579	0.00E+00	0.00E+00
SCE1572_297	sce_8687	3.00E-118	4.00E-117

SCE1572_2979	sce_2583	7.00E-60	1.00E-66
SCE1572_298	sce_8686	1.00E-142	3.00E-132
SCE1572_2980	sce_2584	2.00E-101	2.00E-99
SCE1572_2983	sce_2585	3.00E-106	8.00E-109
SCE1572_2984	sce_2586	6.00E-50	7.00E-50
SCE1572_2985	sce_2587	5.00E-60	6.00E-60
SCE1572_2987	sce_2588	0.00E+00	0.00E+00
SCE1572_299	sce_9374	2.00E-110	2.00E-106
SCE1572_2991	sce_2589	0.00E+00	0.00E+00
SCE1572_2991	sce_5830	0.00E+00	0.00E+00
SCE1572_2991	sce_5824	0.00E+00	0.00E+00
SCE1572_2991	sce_5827	0.00E+00	0.00E+00
SCE1572_2991	sce_2940	0.00E+00	0.00E+00
SCE1572_2992	sce_2590	2.00E-52	2.00E-52
SCE1572_2993	sce_2591	3.00E-93	1.00E-93
SCE1572_2995	sce_2593	0.00E+00	5.00E-180
SCE1572_2996	sce_2596	0.00E+00	0.00E+00
SCE1572_2998	sce_2597	1.00E-70	1.00E-70
SCE1572_3	sce_3	0.00E+00	0.00E+00
SCE1572_30	sce_32	0.00E+00	0.00E+00
SCE1572_3002	sce_6068	2.00E-68	2.00E-60
SCE1572_3003	sce_9937	2.00E-73	1.00E-70
SCE1572_3005	sce_9938	7.00E-26	3.00E-25
SCE1572_3007	sce_2598	4.00E-55	6.00E-68
SCE1572_3008	sce_2600	2.00E-63	2.00E-63
SCE1572_3009	sce_6056	5.00E-40	4.00E-40
SCE1572_3010	sce_2938	2.00E-31	4.00E-23
SCE1572_3011	sce_2937	0.00E+00	0.00E+00
SCE1572_3014	sce_2467	3.00E-147	5.00E-149
SCE1572_3015	sce_2476	6.00E-105	1.00E-117
SCE1572_3020	sce_7521	0.00E+00	0.00E+00
SCE1572_3023	sce_6869	1.00E-96	9.00E-95
SCE1572_3024	sce_6870	9.00E-99	1.00E-114
SCE1572_3032	sce_2601	1.00E-112	1.00E-112
SCE1572_3033	sce_2602	0.00E+00	0.00E+00
SCE1572_3034	sce_2603	4.00E-110	5.00E-114
SCE1572_3035	sce_2604	4.00E-60	3.00E-71
SCE1572_3036	sce_2606	4.00E-157	5.00E-173
SCE1572_3037	sce_2607	2.00E-105	1.00E-129
SCE1572_3061	sce_7454	7.00E-30	7.00E-13
SCE1572_3062	sce_7455	3.00E-62	2.00E-53
SCE1572_3063	sce_5710	0.00E+00	0.00E+00
SCE1572_3064	sce_2609	3.00E-43	3.00E-43
SCE1572_3065	sce_2610	9.00E-42	7.00E-47
SCE1572_3066	sce_2611	7.00E-67	6.00E-68
SCE1572_3067	sce_2612	2.00E-110	7.00E-104
SCE1572_3068	sce_2614	2.00E-120	1.00E-97
SCE1572_3069	sce_7327	4.00E-13	2.00E-10
SCE1572_3070	sce_7328	7.00E-51	8.00E-51
SCE1572_3071	sce_7329	0.00E+00	0.00E+00
SCE1572_3073	sce_7330	2.00E-06	7.00E-12
SCE1572_3074	sce_7331	3.00E-65	4.00E-65
SCE1572_3077	sce_9583	0.00E+00	0.00E+00
SCE1572_308	sce_2028	2.00E-142	8.00E-133
SCE1572_3080	sce_157	7.00E-86	7.00E-86
SCE1572_3082	sce_1504	1.00E-55	2.00E-51
SCE1572_3084	sce_7092	7.00E-97	2.00E-87
SCE1572_309	sce_7865	2.00E-135	2.00E-132
SCE1572_3093	sce_2615	8.00E-65	8.00E-65
SCE1572_3099	sce_9462	5.00E-56	4.00E-73
SCE1572_31	sce_33	1.00E-72	4.00E-72
SCE1572_310	sce_7866	1.00E-91	5.00E-85
SCE1572_3101	sce_2618	2.00E-47	3.00E-59
SCE1572_3103	sce_2621	1.00E-72	1.00E-70
SCE1572_3105	sce_2481	2.00E-53	1.00E-43
SCE1572_3107	sce_2623	4.00E-147	4.00E-131
SCE1572_3108	sce_2624	1.00E-143	1.00E-143
SCE1572_3109	sce_2625	0.00E+00	0.00E+00
SCE1572_311	sce_9786	1.00E-58	5.00E-53
SCE1572_3110	sce_2626	0.00E+00	0.00E+00
SCE1572_3111	sce_2627	4.00E-118	6.00E-120
SCE1572_3113	sce_1386	0.00E+00	0.00E+00
SCE1572_3114	sce_1387	0.00E+00	0.00E+00
SCE1572_3115	sce_2628	2.00E-121	2.00E-121
SCE1572_3116	sce_2629	8.00E-112	4.00E-109
SCE1572_3117	sce_2630	0.00E+00	0.00E+00

SCE1572_3118	sce_2631	4.00E-08	1.00E-08
SCE1572_3119	sce_2632	1.00E-54	5.00E-49
SCE1572_312	sce_9787	2.00E-26	1.00E-25
SCE1572_3120	sce_2633	1.00E-28	2.00E-26
SCE1572_3124	sce_2634	2.00E-49	3.00E-43
SCE1572_3125	sce_2636	4.00E-70	4.00E-70
SCE1572_3126	sce_2637	7.00E-57	2.00E-58
SCE1572_3127	sce_6335	2.00E-21	1.00E-24
SCE1572_3131	sce_6339	0.00E+00	0.00E+00
SCE1572_3133	sce_6341	0.00E+00	0.00E+00
SCE1572_3137	sce_3750	0.00E+00	0.00E+00
SCE1572_3137	sce_7657	0.00E+00	0.00E+00
SCE1572_3137	sce_6712	0.00E+00	0.00E+00
SCE1572_3137	sce_9954	0.00E+00	0.00E+00
SCE1572_3137	sce_3491	0.00E+00	0.00E+00
SCE1572_3137	sce_5226	0.00E+00	0.00E+00
SCE1572_3137	sce_9665	0.00E+00	0.00E+00
SCE1572_3137	sce_5751	0.00E+00	0.00E+00
SCE1572_3137	sce_7154	0.00E+00	0.00E+00
SCE1572_3137	sce_5403	0.00E+00	0.00E+00
SCE1572_3137	sce_5746	0.00E+00	0.00E+00
SCE1572_3138	sce_2638	4.00E-74	5.00E-74
SCE1572_314	sce_2561	2.00E-92	5.00E-93
SCE1572_3140	sce_1537	0.00E+00	0.00E+00
SCE1572_3141	sce_7640	0.00E+00	0.00E+00
SCE1572_3141	sce_388	0.00E+00	0.00E+00
SCE1572_3141	sce_5835	0.00E+00	0.00E+00
SCE1572_3141	sce_10204	0.00E+00	0.00E+00
SCE1572_3141	sce_3085	0.00E+00	0.00E+00
SCE1572_3141	sce_4513	0.00E+00	0.00E+00
SCE1572_3141	sce_7109	0.00E+00	0.00E+00
SCE1572_3141	sce_9557	0.00E+00	0.00E+00
SCE1572_3141	sce_3003	0.00E+00	0.00E+00
SCE1572_3141	sce_9920	0.00E+00	0.00E+00
SCE1572_3141	sce_7661	0.00E+00	0.00E+00
SCE1572_3141	sce_3917	0.00E+00	0.00E+00
SCE1572_3141	sce_6107	0.00E+00	0.00E+00
SCE1572_3141	sce_6093	0.00E+00	0.00E+00
SCE1572_3141	sce_6095	0.00E+00	0.00E+00
SCE1572_3141	sce_6094	0.00E+00	0.00E+00
SCE1572_3141	sce_2065	0.00E+00	0.00E+00
SCE1572_3141	sce_6535	0.00E+00	0.00E+00
SCE1572_3141	sce_4466	0.00E+00	0.00E+00
SCE1572_3141	sce_6092	0.00E+00	0.00E+00
SCE1572_3149	sce_5504	4.00E-173	0.00E+00
SCE1572_315	sce_616	0.00E+00	0.00E+00
SCE1572_3151	sce_2640	4.00E-77	1.00E-55
SCE1572_3152	sce_2641	0.00E+00	0.00E+00
SCE1572_3152	sce_5502	0.00E+00	0.00E+00
SCE1572_3154	sce_2642	1.00E-39	4.00E-15
SCE1572_3155	sce_2643	2.00E-89	5.00E-83
SCE1572_3156	sce_2644	5.00E-73	2.00E-72
SCE1572_3157	sce_2645	0.00E+00	0.00E+00
SCE1572_3157	sce_9974	0.00E+00	0.00E+00
SCE1572_3157	sce_9973	0.00E+00	0.00E+00
SCE1572_3158	sce_5229	0.00E+00	0.00E+00
SCE1572_3158	sce_6712	0.00E+00	0.00E+00
SCE1572_3158	sce_3750	0.00E+00	0.00E+00
SCE1572_3158	sce_9954	0.00E+00	0.00E+00
SCE1572_3158	sce_5403	0.00E+00	0.00E+00
SCE1572_3158	sce_5226	0.00E+00	0.00E+00
SCE1572_3158	sce_774	0.00E+00	0.00E+00
SCE1572_3158	sce_9665	0.00E+00	0.00E+00
SCE1572_3159	sce_2654	3.00E-176	3.00E-173
SCE1572_316	sce_619	0.00E+00	0.00E+00
SCE1572_3160	sce_10130	4.00E-08	5.00E-08
SCE1572_3161	sce_10131	5.00E-27	5.00E-27
SCE1572_3162	sce_2655	0.00E+00	0.00E+00
SCE1572_3163	sce_2656	0.00E+00	0.00E+00
SCE1572_3163	sce_1444	0.00E+00	0.00E+00
SCE1572_3164	sce_9942	0.00E+00	0.00E+00
SCE1572_3165	sce_9943	0.00E+00	0.00E+00
SCE1572_3166	sce_9944	0.00E+00	0.00E+00
SCE1572_3169	sce_5119	4.00E-116	1.00E-110
SCE1572_317	sce_620	5.00E-105	1.00E-101
SCE1572_3172	sce_389	0.00E+00	0.00E+00

SCE1572_3172	sce_7637	0.00E+00	0.00E+00
SCE1572_3172	sce_9237	0.00E+00	0.00E+00
SCE1572_3172	sce_2666	0.00E+00	0.00E+00
SCE1572_3172	sce_9230	0.00E+00	0.00E+00
SCE1572_3172	sce_9231	0.00E+00	0.00E+00
SCE1572_3173	sce_2667	4.00E-79	2.00E-87
SCE1572_3174	sce_2668	2.00E-93	9.00E-101
SCE1572_3181	sce_2671	0.00E+00	0.00E+00
SCE1572_3182	sce_2672	0.00E+00	0.00E+00
SCE1572_3183	sce_2673	4.00E-123	4.00E-122
SCE1572_3188	sce_2679	0.00E+00	0.00E+00
SCE1572_3189	sce_2680	9.00E-21	3.00E-26
SCE1572_3190	sce_2681	1.00E-69	4.00E-72
SCE1572_3191	sce_2683	7.00E-20	7.00E-20
SCE1572_3192	sce_2684	6.00E-66	9.00E-66
SCE1572_3193	sce_2685	0.00E+00	0.00E+00
SCE1572_3194	sce_2686	0.00E+00	0.00E+00
SCE1572_3196	sce_2688	0.00E+00	0.00E+00
SCE1572_3197	sce_2689	4.00E-163	4.00E-175
SCE1572_3198	sce_2690	6.00E-57	8.00E-59
SCE1572_3199	sce_2692	6.00E-150	2.00E-149
SCE1572_32	sce_34	2.00E-86	3.00E-73
SCE1572_3200	sce_2694	3.00E-66	5.00E-71
SCE1572_3201	sce_2695	2.00E-25	2.00E-25
SCE1572_3202	sce_2696	0.00E+00	0.00E+00
SCE1572_3203	sce_2697	6.00E-123	1.00E-124
SCE1572_3204	sce_2698	1.00E-67	2.00E-70
SCE1572_3205	sce_2699	0.00E+00	0.00E+00
SCE1572_3206	sce_2700	0.00E+00	0.00E+00
SCE1572_3207	sce_2701	3.00E-167	1.00E-167
SCE1572_3208	sce_2702	7.00E-114	7.00E-114
SCE1572_3209	sce_2703	2.00E-110	8.00E-125
SCE1572_3210	sce_2704	9.00E-97	2.00E-103
SCE1572_3211	sce_2705	6.00E-19	2.00E-07
SCE1572_3212	sce_2706	1.00E-47	5.00E-44
SCE1572_3213	sce_2707	3.00E-125	4.00E-119
SCE1572_3215	sce_2708	0.00E+00	0.00E+00
SCE1572_3216	sce_2709	0.00E+00	4.00E-172
SCE1572_3217	sce_2710	0.00E+00	0.00E+00
SCE1572_3218	sce_2711	2.00E-13	5.00E-28
SCE1572_3219	sce_2712	2.00E-60	4.00E-62
SCE1572_322	sce_4699	3.00E-61	1.00E-68
SCE1572_3220	sce_2713	2.00E-42	2.00E-42
SCE1572_3221	sce_2714	9.00E-63	9.00E-58
SCE1572_3222	sce_2715	8.00E-122	7.00E-127
SCE1572_3223	sce_2716	4.00E-34	2.00E-38
SCE1572_3225	sce_2717	0.00E+00	0.00E+00
SCE1572_3226	sce_2718	1.00E-125	1.00E-136
SCE1572_3227	sce_2719	5.00E-113	1.00E-116
SCE1572_3228	sce_2720	3.00E-87	3.00E-87
SCE1572_3229	sce_2721	2.00E-42	2.00E-42
SCE1572_3230	sce_2722	6.00E-119	5.00E-119
SCE1572_3231	sce_2723	3.00E-151	3.00E-154
SCE1572_3232	sce_2724	3.00E-174	0.00E+00
SCE1572_3233	sce_2726	0.00E+00	0.00E+00
SCE1572_3234	sce_2727	2.00E-105	8.00E-99
SCE1572_3235	sce_2728	0.00E+00	0.00E+00
SCE1572_3236	sce_2732	0.00E+00	0.00E+00
SCE1572_3238	sce_2733	0.00E+00	0.00E+00
SCE1572_3238	sce_10203	0.00E+00	0.00E+00
SCE1572_3239	sce_2734	2.00E-166	1.00E-161
SCE1572_3241	sce_2735	0.00E+00	0.00E+00
SCE1572_3243	sce_2737	0.00E+00	0.00E+00
SCE1572_3244	sce_2738	6.00E-36	2.00E-35
SCE1572_3245	sce_2740	2.00E-175	2.00E-174
SCE1572_3246	sce_2741	0.00E+00	0.00E+00
SCE1572_3247	sce_2742	5.00E-82	1.00E-91
SCE1572_3248	sce_2744	5.00E-64	3.00E-64
SCE1572_3249	sce_2745	4.00E-167	8.00E-174
SCE1572_3250	sce_2746	2.00E-55	2.00E-54
SCE1572_3252	sce_2748	0.00E+00	0.00E+00
SCE1572_3253	sce_2749	1.00E-100	2.00E-103
SCE1572_3254	sce_2750	3.00E-153	7.00E-166
SCE1572_3255	sce_2751	1.00E-100	4.00E-100
SCE1572_3256	sce_2752	3.00E-82	4.00E-93
SCE1572_3257	sce_2753	5.00E-106	2.00E-111

SCE1572_3259	sce_2754	0.00E+00	0.00E+00
SCE1572_3260	sce_2755	7.00E-11	6.00E-06
SCE1572_3261	sce_2756	0.00E+00	0.00E+00
SCE1572_3262	sce_2757	1.00E-120	7.00E-129
SCE1572_3263	sce_2758	7.00E-167	7.00E-167
SCE1572_3264	sce_2759	0.00E+00	0.00E+00
SCE1572_3266	sce_2760	1.00E-160	2.00E-159
SCE1572_3267	sce_2761	0.00E+00	0.00E+00
SCE1572_3268	sce_2762	3.00E-89	1.00E-89
SCE1572_3269	sce_2764	5.00E-129	8.00E-137
SCE1572_3270	sce_2765	0.00E+00	0.00E+00
SCE1572_3271	sce_2766	0.00E+00	0.00E+00
SCE1572_3273	sce_2767	2.00E-118	1.00E-118
SCE1572_3274	sce_2768	9.00E-176	3.00E-172
SCE1572_3275	sce_2769	9.00E-58	9.00E-58
SCE1572_3276	sce_2770	5.00E-99	4.00E-111
SCE1572_3278	sce_2773	0.00E+00	3.00E-180
SCE1572_3279	sce_2774	6.00E-144	1.00E-137
SCE1572_3280	sce_2775	0.00E+00	0.00E+00
SCE1572_3281	sce_2776	7.00E-136	1.00E-130
SCE1572_3283	sce_2777	0.00E+00	0.00E+00
SCE1572_3284	sce_2784	2.00E-07	2.00E-08
SCE1572_3285	sce_2782	5.00E-166	5.00E-166
SCE1572_3286	sce_2778	8.00E-99	2.00E-100
SCE1572_3288	sce_2785	0.00E+00	0.00E+00
SCE1572_3292	sce_2786	0.00E+00	0.00E+00
SCE1572_3293	sce_2787	6.00E-83	2.00E-82
SCE1572_3294	sce_2788	2.00E-83	3.00E-74
SCE1572_3297	sce_2789	0.00E+00	0.00E+00
SCE1572_3298	sce_2790	6.00E-55	3.00E-67
SCE1572_3299	sce_2791	5.00E-166	1.00E-174
SCE1572_33	sce_35	0.00E+00	0.00E+00
SCE1572_330	sce_4328	0.00E+00	6.00E-168
SCE1572_3300	sce_2792	6.00E-101	8.00E-108
SCE1572_3301	sce_2793	7.00E-146	4.00E-134
SCE1572_3302	sce_2794	0.00E+00	0.00E+00
SCE1572_3306	sce_2797	0.00E+00	0.00E+00
SCE1572_3307	sce_2798	2.00E-180	0.00E+00
SCE1572_3308	sce_2799	7.00E-55	1.00E-41
SCE1572_3309	sce_2800	4.00E-90	1.00E-92
SCE1572_331	sce_4326	1.00E-159	3.00E-170
SCE1572_3310	sce_2801	1.00E-108	3.00E-108
SCE1572_3311	sce_2802	1.00E-58	4.00E-60
SCE1572_3312	sce_2804	1.00E-61	5.00E-70
SCE1572_3313	sce_2805	6.00E-74	1.00E-86
SCE1572_3314	sce_2807	0.00E+00	0.00E+00
SCE1572_3315	sce_2808	1.00E-37	2.00E-32
SCE1572_3316	sce_2811	0.00E+00	0.00E+00
SCE1572_3317	sce_2812	0.00E+00	0.00E+00
SCE1572_3318	sce_2813	2.00E-104	2.00E-105
SCE1572_3319	sce_2814	5.00E-134	2.00E-143
SCE1572_332	sce_180	1.00E-78	2.00E-76
SCE1572_3320	sce_2815	0.00E+00	0.00E+00
SCE1572_3320	sce_3653	0.00E+00	0.00E+00
SCE1572_3321	sce_2816	0.00E+00	0.00E+00
SCE1572_3322	sce_2817	3.00E-11	3.00E-11
SCE1572_3324	sce_2819	7.00E-149	5.00E-153
SCE1572_3325	sce_2820	0.00E+00	0.00E+00
SCE1572_3326	sce_2821	3.00E-73	5.00E-77
SCE1572_3327	sce_2822	2.00E-61	2.00E-61
SCE1572_3328	sce_2823	3.00E-69	2.00E-69
SCE1572_3329	sce_2824	0.00E+00	0.00E+00
SCE1572_333	sce_181	3.00E-135	2.00E-127
SCE1572_3330	sce_2826	7.00E-43	3.00E-50
SCE1572_3331	sce_2827	9.00E-45	1.00E-46
SCE1572_3332	sce_2828	1.00E-21	1.00E-21
SCE1572_3333	sce_2829	0.00E+00	0.00E+00
SCE1572_3335	sce_2831	0.00E+00	0.00E+00
SCE1572_3336	sce_2832	0.00E+00	0.00E+00
SCE1572_3337	sce_2833	4.00E-153	1.00E-164
SCE1572_3338	sce_2834	7.00E-40	7.00E-40
SCE1572_3339	sce_2835	2.00E-171	2.00E-171
SCE1572_334	sce_183	7.00E-111	1.00E-122
SCE1572_3340	sce_2836	0.00E+00	0.00E+00
SCE1572_3341	sce_2837	2.00E-145	1.00E-144
SCE1572_3342	sce_2838	0.00E+00	0.00E+00

SCE1572_3343	sce_2839	1.00E-132	1.00E-132
SCE1572_3344	sce_2840	0.00E+00	0.00E+00
SCE1572_3345	sce_2841	0.00E+00	0.00E+00
SCE1572_335	sce_184	3.00E-166	3.00E-160
SCE1572_3352	sce_2846	0.00E+00	0.00E+00
SCE1572_3358	sce_2848	4.00E-50	2.00E-63
SCE1572_3359	sce_2849	0.00E+00	0.00E+00
SCE1572_336	sce_185	1.00E-78	7.00E-76
SCE1572_3360	sce_2850	0.00E+00	0.00E+00
SCE1572_3363	sce_2851	1.00E-76	1.00E-76
SCE1572_3364	sce_2853	5.00E-73	3.00E-73
SCE1572_3365	sce_2854	1.00E-91	2.00E-85
SCE1572_3366	sce_2855	3.00E-123	9.00E-113
SCE1572_3367	sce_2856	0.00E+00	0.00E+00
SCE1572_3368	sce_2857	0.00E+00	0.00E+00
SCE1572_3369	sce_2859	2.00E-123	1.00E-130
SCE1572_337	sce_187	0.00E+00	0.00E+00
SCE1572_3370	sce_2860	3.00E-52	3.00E-52
SCE1572_3371	sce_2861	0.00E+00	0.00E+00
SCE1572_3372	sce_2862	0.00E+00	0.00E+00
SCE1572_3373	sce_2863	1.00E-21	2.00E-20
SCE1572_3374	sce_2864	2.00E-128	7.00E-124
SCE1572_3375	sce_2865	2.00E-180	6.00E-179
SCE1572_3376	sce_2866	2.00E-93	7.00E-93
SCE1572_3377	sce_7568	4.00E-43	8.00E-48
SCE1572_3378	sce_7569	2.00E-22	2.00E-22
SCE1572_3379	sce_7570	2.00E-38	9.00E-42
SCE1572_3380	sce_2867	3.00E-94	3.00E-94
SCE1572_3381	sce_2868	3.00E-133	4.00E-133
SCE1572_3382	sce_2869	1.00E-136	4.00E-136
SCE1572_3383	sce_2870	5.00E-76	4.00E-73
SCE1572_3384	sce_2871	0.00E+00	0.00E+00
SCE1572_3385	sce_2872	4.00E-180	0.00E+00
SCE1572_3387	sce_2873	3.00E-42	8.00E-36
SCE1572_3388	sce_2874	3.00E-95	1.00E-84
SCE1572_3389	sce_2875	4.00E-49	3.00E-33
SCE1572_339	sce_7549	2.00E-108	6.00E-107
SCE1572_3390	sce_2876	4.00E-61	5.00E-61
SCE1572_3391	sce_2877	2.00E-67	4.00E-75
SCE1572_3392	sce_2878	0.00E+00	0.00E+00
SCE1572_3393	sce_2879	1.00E-39	1.00E-39
SCE1572_3394	sce_2880	8.00E-71	1.00E-71
SCE1572_3395	sce_2881	6.00E-15	4.00E-21
SCE1572_3396	sce_2882	9.00E-63	2.00E-54
SCE1572_3397	sce_2884	0.00E+00	0.00E+00
SCE1572_3398	sce_2885	4.00E-19	5.00E-19
SCE1572_34	sce_36	3.00E-145	4.00E-145
SCE1572_340	sce_7550	1.00E-97	2.00E-96
SCE1572_3400	sce_2887	0.00E+00	0.00E+00
SCE1572_3402	sce_2889	9.00E-116	2.00E-111
SCE1572_3403	sce_2890	5.00E-87	8.00E-92
SCE1572_3404	sce_2891	3.00E-118	3.00E-118
SCE1572_3405	sce_2892	0.00E+00	0.00E+00
SCE1572_3406	sce_2893	2.00E-172	2.00E-172
SCE1572_3407	sce_2894	0.00E+00	0.00E+00
SCE1572_3408	sce_2895	4.00E-144	4.00E-144
SCE1572_3409	sce_2896	1.00E-68	2.00E-97
SCE1572_341	sce_188	0.00E+00	0.00E+00
SCE1572_3410	sce_2897	2.00E-13	6.00E-16
SCE1572_3411	sce_2898	2.00E-82	7.00E-84
SCE1572_3412	sce_2899	7.00E-100	3.00E-101
SCE1572_3414	sce_2900	0.00E+00	0.00E+00
SCE1572_3415	sce_2901	5.00E-61	1.00E-63
SCE1572_3416	sce_2903	2.00E-59	2.00E-69
SCE1572_3417	sce_2904	2.00E-99	3.00E-107
SCE1572_3418	sce_2905	0.00E+00	2.00E-180
SCE1572_3419	sce_2906	0.00E+00	0.00E+00
SCE1572_342	sce_189	5.00E-120	5.00E-120
SCE1572_3420	sce_2907	0.00E+00	0.00E+00
SCE1572_3421	sce_2908	0.00E+00	0.00E+00
SCE1572_3422	sce_2909	0.00E+00	0.00E+00
SCE1572_3423	sce_2910	4.00E-09	6.00E-09
SCE1572_3424	sce_2911	3.00E-119	3.00E-119
SCE1572_3425	sce_2912	2.00E-20	1.00E-21
SCE1572_3427	sce_2913	0.00E+00	0.00E+00
SCE1572_3429	sce_2914	0.00E+00	0.00E+00

SCE1572_343	sce_190	0.00E+00	0.00E+00
SCE1572_3430	sce_2915	9.00E-61	4.00E-61
SCE1572_3431	sce_2916	1.00E-31	9.00E-30
SCE1572_3432	sce_2917	6.00E-87	3.00E-81
SCE1572_3433	sce_2918	1.00E-101	8.00E-130
SCE1572_3434	sce_2919	0.00E+00	0.00E+00
SCE1572_3435	sce_2920	8.00E-112	1.00E-111
SCE1572_3436	sce_2925	3.00E-107	7.00E-106
SCE1572_3437	sce_2931	2.00E-117	3.00E-117
SCE1572_3439	sce_2932	1.00E-163	1.00E-163
SCE1572_344	sce_2552	6.00E-128	2.00E-116
SCE1572_3441	sce_2933	3.00E-99	3.00E-93
SCE1572_3442	sce_2934	0.00E+00	0.00E+00
SCE1572_3443	sce_2935	2.00E-57	3.00E-69
SCE1572_3444	sce_5835	0.00E+00	0.00E+00
SCE1572_3444	sce_7640	0.00E+00	0.00E+00
SCE1572_3444	sce_388	0.00E+00	0.00E+00
SCE1572_3444	sce_3085	0.00E+00	0.00E+00
SCE1572_3444	sce_10204	0.00E+00	0.00E+00
SCE1572_3444	sce_4513	0.00E+00	0.00E+00
SCE1572_3444	sce_9557	0.00E+00	0.00E+00
SCE1572_3444	sce_7109	0.00E+00	0.00E+00
SCE1572_3444	sce_9920	0.00E+00	0.00E+00
SCE1572_3444	sce_6535	0.00E+00	0.00E+00
SCE1572_3444	sce_3003	0.00E+00	0.00E+00
SCE1572_3444	sce_7661	0.00E+00	0.00E+00
SCE1572_3444	sce_3917	0.00E+00	0.00E+00
SCE1572_3444	sce_6093	0.00E+00	0.00E+00
SCE1572_3444	sce_6107	0.00E+00	0.00E+00
SCE1572_3444	sce_6094	0.00E+00	0.00E+00
SCE1572_3444	sce_6092	0.00E+00	0.00E+00
SCE1572_3444	sce_8618	0.00E+00	0.00E+00
SCE1572_3444	sce_7643	0.00E+00	0.00E+00
SCE1572_3445	sce_225	0.00E+00	0.00E+00
SCE1572_3445	sce_2161	0.00E+00	0.00E+00
SCE1572_3445	sce_6235	0.00E+00	0.00E+00
SCE1572_3445	sce_8357	0.00E+00	0.00E+00
SCE1572_3445	sce_5276	0.00E+00	0.00E+00
SCE1572_3447	sce_2939	4.00E-53	5.00E-53
SCE1572_3448	sce_2940	0.00E+00	0.00E+00
SCE1572_3448	sce_5830	0.00E+00	0.00E+00
SCE1572_3448	sce_5827	0.00E+00	0.00E+00
SCE1572_3448	sce_5824	0.00E+00	0.00E+00
SCE1572_3448	sce_2589	0.00E+00	0.00E+00
SCE1572_3449	sce_2941	0.00E+00	0.00E+00
SCE1572_345	sce_2359	3.00E-85	3.00E-90
SCE1572_3450	sce_2942	9.00E-172	6.00E-178
SCE1572_3451	sce_2943	0.00E+00	0.00E+00
SCE1572_3452	sce_2944	0.00E+00	0.00E+00
SCE1572_3453	sce_2945	0.00E+00	0.00E+00
SCE1572_3455	sce_2946	0.00E+00	0.00E+00
SCE1572_3456	sce_2947	7.00E-179	2.00E-178
SCE1572_3458	sce_2948	8.00E-82	1.00E-81
SCE1572_3459	sce_2952	2.00E-34	2.00E-38
SCE1572_346	sce_3609	0.00E+00	0.00E+00
SCE1572_3460	sce_2953	1.00E-35	5.00E-36
SCE1572_3461	sce_2954	3.00E-70	8.00E-71
SCE1572_3462	sce_2955	3.00E-21	5.00E-15
SCE1572_3463	sce_2956	0.00E+00	0.00E+00
SCE1572_3464	sce_2957	0.00E+00	0.00E+00
SCE1572_3467	sce_2958	7.00E-91	7.00E-97
SCE1572_3468	sce_2960	4.00E-56	7.00E-68
SCE1572_3469	sce_2962	0.00E+00	0.00E+00
SCE1572_347	sce_9865	9.00E-115	1.00E-114
SCE1572_3470	sce_2963	0.00E+00	0.00E+00
SCE1572_3472	sce_2964	1.00E-99	2.00E-96
SCE1572_3473	sce_2965	4.00E-69	5.00E-62
SCE1572_3474	sce_2966	0.00E+00	0.00E+00
SCE1572_3475	sce_2967	8.00E-68	8.00E-104
SCE1572_3476	sce_2969	0.00E+00	0.00E+00
SCE1572_3480	sce_2972	0.00E+00	0.00E+00
SCE1572_3481	sce_2973	7.00E-22	1.00E-26
SCE1572_3483	sce_2974	7.00E-146	8.00E-155
SCE1572_3484	sce_2975	2.00E-69	1.00E-68
SCE1572_3490	sce_1329	7.00E-83	5.00E-96
SCE1572_3493	sce_2976	0.00E+00	0.00E+00

SCE1572_3494	sce_2977	2.00E-48	8.00E-49
SCE1572_3496	sce_2978	0.00E+00	0.00E+00
SCE1572_3497	sce_2980	2.00E-61	2.00E-61
SCE1572_3498	sce_2981	0.00E+00	0.00E+00
SCE1572_3499	sce_2982	3.00E-65	3.00E-65
SCE1572_35	sce_37	5.00E-127	2.00E-124
SCE1572_350	sce_9998	6.00E-159	0.00E+00
SCE1572_3500	sce_2983	0.00E+00	0.00E+00
SCE1572_3501	sce_2984	0.00E+00	0.00E+00
SCE1572_3502	sce_2985	7.00E-119	5.00E-127
SCE1572_3503	sce_2986	5.00E-135	2.00E-138
SCE1572_3504	sce_2987	1.00E-145	1.00E-153
SCE1572_3505	sce_2988	6.00E-144	6.00E-144
SCE1572_3506	sce_2989	1.00E-107	2.00E-107
SCE1572_3507	sce_2990	1.00E-52	4.00E-50
SCE1572_3508	sce_2991	8.00E-61	3.00E-68
SCE1572_3509	sce_2992	0.00E+00	0.00E+00
SCE1572_3510	sce_2993	2.00E-62	4.00E-72
SCE1572_3511	sce_2994	2.00E-125	7.00E-114
SCE1572_3513	sce_7498	0.00E+00	0.00E+00
SCE1572_3514	sce_7500	8.00E-136	6.00E-128
SCE1572_3516	sce_7492	9.00E-143	4.00E-145
SCE1572_3517	sce_8421	1.00E-46	1.00E-46
SCE1572_352	sce_193	6.00E-75	1.00E-69
SCE1572_3521	sce_1043	1.00E-139	6.00E-131
SCE1572_3523	sce_3138	2.00E-51	4.00E-60
SCE1572_3525	sce_7491	0.00E+00	0.00E+00
SCE1572_3528	sce_2106	7.00E-57	3.00E-52
SCE1572_3529	sce_7067	0.00E+00	0.00E+00
SCE1572_353	sce_194	2.00E-75	6.00E-78
SCE1572_3533	sce_7120	0.00E+00	0.00E+00
SCE1572_3534	sce_8653	1.00E-20	1.00E-20
SCE1572_354	sce_195	1.00E-142	4.00E-151
SCE1572_3549	sce_5143	0.00E+00	0.00E+00
SCE1572_355	sce_196	7.00E-149	1.00E-140
SCE1572_3550	sce_1370	0.00E+00	0.00E+00
SCE1572_3552	sce_6024	2.00E-46	6.00E-49
SCE1572_3553	sce_6183	7.00E-21	7.00E-28
SCE1572_3554	sce_10012	1.00E-108	1.00E-104
SCE1572_3555	sce_5751	0.00E+00	0.00E+00
SCE1572_3555	sce_5746	0.00E+00	0.00E+00
SCE1572_3555	sce_9665	0.00E+00	0.00E+00
SCE1572_3555	sce_5226	0.00E+00	0.00E+00
SCE1572_3555	sce_5403	0.00E+00	0.00E+00
SCE1572_3555	sce_7969	0.00E+00	0.00E+00
SCE1572_3555	sce_4073	0.00E+00	0.00E+00
SCE1572_3555	sce_7154	0.00E+00	0.00E+00
SCE1572_3555	sce_2053	0.00E+00	0.00E+00
SCE1572_3555	sce_9757	0.00E+00	0.00E+00
SCE1572_3555	sce_9954	0.00E+00	0.00E+00
SCE1572_3555	sce_6712	0.00E+00	0.00E+00
SCE1572_3555	sce_3750	0.00E+00	0.00E+00
SCE1572_3555	sce_1803	0.00E+00	0.00E+00
SCE1572_3564	sce_5229	0.00E+00	0.00E+00
SCE1572_3564	sce_6712	0.00E+00	0.00E+00
SCE1572_3564	sce_3750	0.00E+00	0.00E+00
SCE1572_3564	sce_9954	0.00E+00	0.00E+00
SCE1572_3564	sce_5403	0.00E+00	0.00E+00
SCE1572_3564	sce_774	0.00E+00	0.00E+00
SCE1572_3564	sce_9665	0.00E+00	0.00E+00
SCE1572_3568	sce_5229	0.00E+00	0.00E+00
SCE1572_3568	sce_6712	0.00E+00	0.00E+00
SCE1572_3568	sce_3750	0.00E+00	0.00E+00
SCE1572_3568	sce_9954	0.00E+00	0.00E+00
SCE1572_3568	sce_5403	0.00E+00	0.00E+00
SCE1572_3568	sce_9665	0.00E+00	0.00E+00
SCE1572_3568	sce_774	0.00E+00	0.00E+00
SCE1572_3568	sce_5226	0.00E+00	0.00E+00
SCE1572_357	sce_198	0.00E+00	0.00E+00
SCE1572_3576	sce_6709	3.00E-40	2.00E-40
SCE1572_3577	sce_170	6.00E-105	1.00E-104
SCE1572_3579	sce_6216	4.00E-49	3.00E-49
SCE1572_358	sce_199	0.00E+00	0.00E+00
SCE1572_3581	sce_4603	4.00E-90	1.00E-81
SCE1572_3585	sce_9857	2.00E-86	2.00E-86
SCE1572_359	sce_200	0.00E+00	0.00E+00

SCE1572_3592	sce_7649	4.00E-63	8.00E-57
SCE1572_3593	sce_7648	0.00E+00	0.00E+00
SCE1572_3594	sce_7651	1.00E-117	4.00E-132
SCE1572_3599	sce_1701	3.00E-21	3.00E-21
SCE1572_36	sce_38	0.00E+00	0.00E+00
SCE1572_360	sce_201	2.00E-73	2.00E-73
SCE1572_3604	sce_1597	0.00E+00	0.00E+00
SCE1572_3605	sce_1598	0.00E+00	0.00E+00
SCE1572_3605	sce_1599	0.00E+00	0.00E+00
SCE1572_3607	sce_4487	0.00E+00	0.00E+00
SCE1572_3608	sce_3024	1.00E-148	9.00E-153
SCE1572_3609	sce_3025	0.00E+00	0.00E+00
SCE1572_3614	sce_6533	1.00E-22	4.00E-33
SCE1572_3619	sce_2155	0.00E+00	0.00E+00
SCE1572_3620	sce_2154	3.00E-60	1.00E-46
SCE1572_3621	sce_2153	6.00E-46	9.00E-46
SCE1572_3622	sce_2152	0.00E+00	0.00E+00
SCE1572_3623	sce_2151	2.00E-63	4.00E-63
SCE1572_3624	sce_2150	2.00E-30	2.00E-30
SCE1572_3625	sce_2149	5.00E-95	5.00E-95
SCE1572_3626	sce_6850	3.00E-158	1.00E-139
SCE1572_3627	sce_6851	3.00E-94	8.00E-108
SCE1572_3628	sce_1042	2.00E-63	2.00E-63
SCE1572_3629	sce_7856	1.00E-45	6.00E-44
SCE1572_3630	sce_6065	0.00E+00	0.00E+00
SCE1572_3631	sce_6047	3.00E-159	7.00E-166
SCE1572_3632	sce_6048	0.00E+00	0.00E+00
SCE1572_3633	sce_6046	7.00E-76	1.00E-72
SCE1572_3634	sce_2425	2.00E-140	2.00E-131
SCE1572_3639	sce_6070	1.00E-56	2.00E-56
SCE1572_3641	sce_6018	2.00E-161	4.00E-167
SCE1572_3646	sce_4691	2.00E-114	1.00E-105
SCE1572_3647	sce_4692	4.00E-102	8.00E-101
SCE1572_3648	sce_4693	4.00E-153	5.00E-154
SCE1572_3650	sce_2436	1.00E-76	8.00E-77
SCE1572_3654	sce_3043	7.00E-75	1.00E-74
SCE1572_3656	sce_5240	7.00E-16	1.00E-17
SCE1572_3658	sce_5238	2.00E-66	4.00E-101
SCE1572_367	sce_203	1.00E-93	9.00E-104
SCE1572_3670	sce_2337	7.00E-117	3.00E-118
SCE1572_3675	sce_8689	1.00E-09	1.00E-08
SCE1572_3677	sce_7357	9.00E-70	2.00E-58
SCE1572_3678	sce_7356	2.00E-71	2.00E-71
SCE1572_368	sce_204	0.00E+00	0.00E+00
SCE1572_3680	sce_6700	1.00E-20	9.00E-20
SCE1572_3688	sce_1325	0.00E+00	0.00E+00
SCE1572_3689	sce_3046	2.00E-115	7.00E-126
SCE1572_3691	sce_3794	0.00E+00	0.00E+00
SCE1572_3696	sce_3047	1.00E-06	6.00E-10
SCE1572_37	sce_39	5.00E-97	2.00E-90
SCE1572_3700	sce_3049	0.00E+00	0.00E+00
SCE1572_3701	sce_3051	6.00E-78	6.00E-78
SCE1572_3702	sce_3052	0.00E+00	0.00E+00
SCE1572_3703	sce_3053	2.00E-142	4.00E-150
SCE1572_3704	sce_10152	2.00E-27	1.00E-27
SCE1572_3707	sce_7655	4.00E-114	6.00E-113
SCE1572_3710	sce_8390	8.00E-40	8.00E-40
SCE1572_3711	sce_8388	7.00E-23	7.00E-23
SCE1572_3712	sce_3061	2.00E-137	3.00E-138
SCE1572_3717	sce_7923	2.00E-14	8.00E-16
SCE1572_3719	sce_3062	9.00E-125	1.00E-125
SCE1572_3720	sce_3065	0.00E+00	0.00E+00
SCE1572_3722	sce_3066	0.00E+00	0.00E+00
SCE1572_3725	sce_7838	3.00E-124	2.00E-121
SCE1572_373	sce_205	9.00E-126	2.00E-134
SCE1572_3731	sce_3071	0.00E+00	0.00E+00
SCE1572_3732	sce_3072	0.00E+00	0.00E+00
SCE1572_3734	sce_5891	3.00E-93	5.00E-101
SCE1572_3738	sce_3078	7.00E-62	2.00E-98
SCE1572_374	sce_206	0.00E+00	0.00E+00
SCE1572_3745	sce_3083	4.00E-57	2.00E-129
SCE1572_3746	sce_3084	6.00E-84	6.00E-83
SCE1572_3748	sce_3085	0.00E+00	0.00E+00
SCE1572_3748	sce_7640	0.00E+00	0.00E+00
SCE1572_3748	sce_388	0.00E+00	0.00E+00
SCE1572_3748	sce_5835	0.00E+00	0.00E+00

SCE1572_3748	sce_10204	0.00E+00	0.00E+00
SCE1572_3748	sce_3003	0.00E+00	0.00E+00
SCE1572_3748	sce_9557	0.00E+00	0.00E+00
SCE1572_3748	sce_7109	0.00E+00	0.00E+00
SCE1572_3748	sce_7661	0.00E+00	0.00E+00
SCE1572_3748	sce_4513	0.00E+00	0.00E+00
SCE1572_3748	sce_9920	0.00E+00	0.00E+00
SCE1572_3748	sce_3917	0.00E+00	0.00E+00
SCE1572_3748	sce_6535	0.00E+00	0.00E+00
SCE1572_3748	sce_6093	0.00E+00	0.00E+00
SCE1572_3749	sce_3086	3.00E-48	2.00E-55
SCE1572_3750	sce_3087	4.00E-88	2.00E-90
SCE1572_3752	sce_9196	6.00E-49	6.00E-49
SCE1572_3755	sce_4641	0.00E+00	0.00E+00
SCE1572_3758	sce_8592	0.00E+00	0.00E+00
SCE1572_3758	sce_3937	0.00E+00	0.00E+00
SCE1572_3759	sce_8592	0.00E+00	0.00E+00
SCE1572_3759	sce_3937	0.00E+00	0.00E+00
SCE1572_3761	sce_3092	0.00E+00	0.00E+00
SCE1572_3762	sce_3093	0.00E+00	0.00E+00
SCE1572_3763	sce_3100	2.00E-51	1.00E-53
SCE1572_3764	sce_3101	2.00E-145	7.00E-149
SCE1572_3765	sce_3102	0.00E+00	0.00E+00
SCE1572_3766	sce_3103	5.00E-176	4.00E-164
SCE1572_3767	sce_3104	2.00E-126	1.00E-128
SCE1572_3768	sce_3105	6.00E-161	7.00E-163
SCE1572_3769	sce_3106	5.00E-50	3.00E-57
SCE1572_3771	sce_3107	5.00E-149	4.00E-159
SCE1572_3772	sce_3108	1.00E-159	1.00E-159
SCE1572_3773	sce_3109	0.00E+00	0.00E+00
SCE1572_3774	sce_3110	0.00E+00	0.00E+00
SCE1572_3775	sce_3111	2.00E-71	5.00E-72
SCE1572_3776	sce_3112	0.00E+00	0.00E+00
SCE1572_3777	sce_3113	3.00E-140	2.00E-154
SCE1572_3778	sce_3114	2.00E-173	9.00E-174
SCE1572_3779	sce_3115	0.00E+00	0.00E+00
SCE1572_3780	sce_3116	5.00E-41	5.00E-41
SCE1572_3781	sce_3117	2.00E-157	8.00E-149
SCE1572_3782	sce_3118	9.00E-156	9.00E-148
SCE1572_3784	sce_3119	8.00E-84	7.00E-74
SCE1572_3785	sce_3120	1.00E-48	1.00E-48
SCE1572_3786	sce_3121	0.00E+00	0.00E+00
SCE1572_3786	sce_6618	0.00E+00	0.00E+00
SCE1572_3787	sce_3122	1.00E-97	3.00E-91
SCE1572_3788	sce_3123	2.00E-143	2.00E-143
SCE1572_3789	sce_3124	9.00E-152	9.00E-152
SCE1572_379	sce_211	8.00E-173	3.00E-162
SCE1572_3790	sce_3126	0.00E+00	0.00E+00
SCE1572_3791	sce_3127	0.00E+00	0.00E+00
SCE1572_3793	sce_3129	0.00E+00	0.00E+00
SCE1572_3794	sce_3130	6.00E-53	4.00E-44
SCE1572_3795	sce_3131	1.00E-146	4.00E-155
SCE1572_3796	sce_3132	0.00E+00	0.00E+00
SCE1572_3797	sce_3133	0.00E+00	0.00E+00
SCE1572_3798	sce_3134	0.00E+00	0.00E+00
SCE1572_3799	sce_3135	0.00E+00	0.00E+00
SCE1572_38	sce_40	1.00E-179	0.00E+00
SCE1572_3801	sce_5620	1.00E-53	1.00E-53
SCE1572_3803	sce_3137	0.00E+00	0.00E+00
SCE1572_3805	sce_3139	1.00E-97	9.00E-75
SCE1572_3807	sce_5178	0.00E+00	0.00E+00
SCE1572_3808	sce_3140	3.00E-178	0.00E+00
SCE1572_3809	sce_3141	4.00E-56	2.00E-70
SCE1572_381	sce_6106	1.00E-16	2.00E-17
SCE1572_3815	sce_2107	1.00E-125	1.00E-123
SCE1572_3817	sce_4644	9.00E-87	1.00E-86
SCE1572_3818	sce_3145	0.00E+00	0.00E+00
SCE1572_382	sce_212	1.00E-47	8.00E-46
SCE1572_3820	sce_3147	7.00E-159	5.00E-141
SCE1572_3821	sce_3148	0.00E+00	0.00E+00
SCE1572_3821	sce_1814	0.00E+00	0.00E+00
SCE1572_3821	sce_9222	0.00E+00	0.00E+00
SCE1572_3822	sce_3149	3.00E-15	2.00E-12
SCE1572_3823	sce_3151	9.00E-61	8.00E-67
SCE1572_3824	sce_3152	1.00E-169	7.00E-158
SCE1572_3826	sce_3153	0.00E+00	0.00E+00

SCE1572_3827	sce_3154	6.00E-19	9.00E-19
SCE1572_3828	sce_3155	3.00E-117	3.00E-117
SCE1572_3829	sce_3156	0.00E+00	4.00E-142
SCE1572_383	sce_7076	1.00E-144	2.00E-140
SCE1572_3830	sce_3157	2.00E-86	9.00E-87
SCE1572_3831	sce_3158	4.00E-101	1.00E-105
SCE1572_3832	sce_3159	2.00E-145	1.00E-150
SCE1572_3833	sce_3161	5.00E-126	2.00E-116
SCE1572_3835	sce_7642	2.00E-169	0.00E+00
SCE1572_3839	sce_3162	8.00E-152	8.00E-152
SCE1572_3840	sce_3163	2.00E-88	2.00E-88
SCE1572_3841	sce_3164	9.00E-177	0.00E+00
SCE1572_3842	sce_3165	2.00E-98	2.00E-98
SCE1572_3846	sce_2595	7.00E-20	8.00E-20
SCE1572_3848	sce_3166	9.00E-82	4.00E-82
SCE1572_3849	sce_3167	3.00E-82	1.00E-87
SCE1572_3850	sce_3168	6.00E-112	6.00E-112
SCE1572_3851	sce_3169	2.00E-109	2.00E-109
SCE1572_3852	sce_3170	3.00E-145	1.00E-145
SCE1572_3854	sce_3171	2.00E-132	2.00E-120
SCE1572_3855	sce_3172	2.00E-78	2.00E-85
SCE1572_3856	sce_3180	2.00E-83	4.00E-141
SCE1572_3857	sce_3181	0.00E+00	0.00E+00
SCE1572_3858	sce_3182	2.00E-109	5.00E-129
SCE1572_3859	sce_3183	0.00E+00	0.00E+00
SCE1572_3860	sce_3184	1.00E-102	3.00E-106
SCE1572_3861	sce_3185	0.00E+00	0.00E+00
SCE1572_3861	sce_5602	0.00E+00	0.00E+00
SCE1572_3861	sce_5033	0.00E+00	0.00E+00
SCE1572_3863	sce_3186	0.00E+00	0.00E+00
SCE1572_3864	sce_3187	0.00E+00	0.00E+00
SCE1572_3866	sce_3188	3.00E-86	2.00E-88
SCE1572_3867	sce_3189	2.00E-69	4.00E-65
SCE1572_3868	sce_3190	3.00E-153	2.00E-160
SCE1572_3869	sce_3191	2.00E-78	4.00E-76
SCE1572_387	sce_213	9.00E-20	3.00E-24
SCE1572_3870	sce_3192	1.00E-56	4.00E-66
SCE1572_3871	sce_3194	2.00E-104	6.00E-107
SCE1572_3872	sce_3195	0.00E+00	0.00E+00
SCE1572_3873	sce_3196	4.00E-151	7.00E-162
SCE1572_3874	sce_3197	0.00E+00	0.00E+00
SCE1572_3875	sce_3198	8.00E-89	7.00E-95
SCE1572_3876	sce_3199	6.00E-44	6.00E-44
SCE1572_3877	sce_3200	4.00E-11	2.00E-12
SCE1572_3878	sce_3201	0.00E+00	0.00E+00
SCE1572_3879	sce_3202	2.00E-174	2.00E-174
SCE1572_388	sce_214	8.00E-52	2.00E-56
SCE1572_3880	sce_3204	0.00E+00	0.00E+00
SCE1572_3881	sce_3205	2.00E-95	9.00E-94
SCE1572_3882	sce_3206	5.00E-119	1.00E-142
SCE1572_3883	sce_3207	2.00E-62	2.00E-69
SCE1572_3884	sce_3208	2.00E-86	2.00E-86
SCE1572_3885	sce_3209	2.00E-76	2.00E-76
SCE1572_3886	sce_3210	6.00E-101	1.00E-98
SCE1572_3887	sce_3211	0.00E+00	0.00E+00
SCE1572_3888	sce_3212	0.00E+00	0.00E+00
SCE1572_3889	sce_3213	4.00E-101	2.00E-105
SCE1572_389	sce_5187	8.00E-20	2.00E-19
SCE1572_3890	sce_3215	0.00E+00	0.00E+00
SCE1572_3891	sce_3216	0.00E+00	0.00E+00
SCE1572_3892	sce_3221	2.00E-133	5.00E-139
SCE1572_3893	sce_3222	3.00E-65	2.00E-60
SCE1572_3894	sce_3223	3.00E-86	2.00E-87
SCE1572_3895	sce_3224	2.00E-82	3.00E-81
SCE1572_3896	sce_3225	7.00E-135	3.00E-152
SCE1572_3897	sce_3226	1.00E-131	5.00E-144
SCE1572_3898	sce_3227	0.00E+00	0.00E+00
SCE1572_3899	sce_3228	0.00E+00	7.00E-178
SCE1572_39	sce_41	0.00E+00	0.00E+00
SCE1572_39	sce_370	0.00E+00	0.00E+00
SCE1572_390	sce_5188	9.00E-53	1.00E-56
SCE1572_3900	sce_3229	5.00E-102	3.00E-102
SCE1572_3901	sce_3230	8.00E-69	6.00E-78
SCE1572_3903	sce_3232	0.00E+00	0.00E+00
SCE1572_3905	sce_3234	0.00E+00	0.00E+00
SCE1572_3906	sce_3235	0.00E+00	0.00E+00

SCE1572_3907	sce_3236	4.00E-118	1.00E-131
SCE1572_3908	sce_3238	1.00E-13	1.00E-22
SCE1572_3909	sce_3239	0.00E+00	0.00E+00
SCE1572_3910	sce_3240	4.00E-113	9.00E-111
SCE1572_3911	sce_3241	7.00E-86	7.00E-86
SCE1572_3912	sce_3242	9.00E-29	1.00E-14
SCE1572_3913	sce_3243	0.00E+00	0.00E+00
SCE1572_3914	sce_3245	7.00E-129	1.00E-136
SCE1572_3915	sce_3246	2.00E-103	3.00E-80
SCE1572_3916	sce_3247	1.00E-136	7.00E-148
SCE1572_3917	sce_3249	2.00E-127	2.00E-134
SCE1572_3918	sce_3250	2.00E-85	2.00E-85
SCE1572_3919	sce_3251	1.00E-68	5.00E-86
SCE1572_392	sce_215	1.00E-51	3.00E-57
SCE1572_3920	sce_3252	2.00E-119	9.00E-119
SCE1572_3921	sce_3254	1.00E-114	9.00E-98
SCE1572_3922	sce_3255	5.00E-90	6.00E-96
SCE1572_3923	sce_3256	0.00E+00	0.00E+00
SCE1572_3924	sce_3257	3.00E-84	1.00E-84
SCE1572_3925	sce_3258	9.00E-150	3.00E-159
SCE1572_3926	sce_3259	3.00E-142	6.00E-155
SCE1572_3927	sce_3260	3.00E-42	3.00E-42
SCE1572_3928	sce_3261	0.00E+00	0.00E+00
SCE1572_3929	sce_3262	0.00E+00	0.00E+00
SCE1572_393	sce_2460	1.00E-22	7.00E-20
SCE1572_3930	sce_3263	3.00E-115	7.00E-123
SCE1572_3931	sce_3264	3.00E-141	3.00E-141
SCE1572_3932	sce_3265	1.00E-140	1.00E-140
SCE1572_3933	sce_3267	9.00E-164	6.00E-167
SCE1572_3935	sce_3268	0.00E+00	0.00E+00
SCE1572_3937	sce_3270	7.00E-103	2.00E-94
SCE1572_3938	sce_3271	4.00E-128	5.00E-131
SCE1572_3939	sce_3272	2.00E-42	5.00E-38
SCE1572_394	sce_217	0.00E+00	0.00E+00
SCE1572_3940	sce_3273	6.00E-99	7.00E-99
SCE1572_3941	sce_3274	0.00E+00	0.00E+00
SCE1572_3942	sce_3275	0.00E+00	0.00E+00
SCE1572_3943	sce_3276	0.00E+00	0.00E+00
SCE1572_3944	sce_3277	3.00E-27	3.00E-22
SCE1572_3945	sce_3278	0.00E+00	0.00E+00
SCE1572_3946	sce_3279	3.00E-174	2.00E-166
SCE1572_3947	sce_3281	0.00E+00	0.00E+00
SCE1572_3947	sce_3280	0.00E+00	0.00E+00
SCE1572_3948	sce_3282	0.00E+00	0.00E+00
SCE1572_3949	sce_3283	0.00E+00	0.00E+00
SCE1572_395	sce_218	4.00E-149	1.00E-132
SCE1572_3951	sce_3285	0.00E+00	0.00E+00
SCE1572_3952	sce_3286	2.00E-101	5.00E-102
SCE1572_3953	sce_3287	2.00E-96	2.00E-93
SCE1572_3958	sce_8665	2.00E-07	3.00E-14
SCE1572_3959	sce_3289	0.00E+00	0.00E+00
SCE1572_3960	sce_2531	4.00E-25	9.00E-24
SCE1572_3961	sce_3291	2.00E-176	5.00E-177
SCE1572_3962	sce_3292	0.00E+00	0.00E+00
SCE1572_3963	sce_3293	0.00E+00	0.00E+00
SCE1572_3964	sce_3294	0.00E+00	0.00E+00
SCE1572_3965	sce_3295	2.00E-68	1.00E-64
SCE1572_3967	sce_10164	3.00E-101	1.00E-101
SCE1572_3968	sce_3296	0.00E+00	0.00E+00
SCE1572_3969	sce_3297	0.00E+00	0.00E+00
SCE1572_3970	sce_3299	8.00E-118	8.00E-118
SCE1572_3971	sce_3300	0.00E+00	0.00E+00
SCE1572_3972	sce_3301	2.00E-38	2.00E-38
SCE1572_3973	sce_3302	1.00E-171	7.00E-159
SCE1572_3974	sce_3303	2.00E-73	7.00E-74
SCE1572_3975	sce_3304	6.00E-62	1.00E-73
SCE1572_3976	sce_3305	2.00E-131	2.00E-131
SCE1572_3977	sce_3306	4.00E-137	2.00E-137
SCE1572_3978	sce_3307	1.00E-138	5.00E-132
SCE1572_3979	sce_3308	2.00E-145	8.00E-152
SCE1572_398	sce_219	0.00E+00	0.00E+00
SCE1572_3980	sce_3309	0.00E+00	0.00E+00
SCE1572_3981	sce_3310	0.00E+00	0.00E+00
SCE1572_3982	sce_3311	5.00E-118	6.00E-118
SCE1572_3983	sce_3314	4.00E-84	4.00E-91
SCE1572_3984	sce_3315	1.00E-124	2.00E-122

SCE1572_3985	sce_3316	0.00E+00	0.00E+00
SCE1572_3986	sce_3317	7.00E-140	2.00E-136
SCE1572_3987	sce_3318	6.00E-72	5.00E-72
SCE1572_3988	sce_3319	5.00E-67	1.00E-71
SCE1572_3989	sce_3320	2.00E-111	7.00E-103
SCE1572_3990	sce_3321	0.00E+00	0.00E+00
SCE1572_3991	sce_3322	0.00E+00	0.00E+00
SCE1572_3992	sce_3323	4.00E-07	3.00E-06
SCE1572_3993	sce_3324	1.00E-22	3.00E-18
SCE1572_3997	sce_3327	0.00E+00	0.00E+00
SCE1572_3998	sce_3328	0.00E+00	0.00E+00
SCE1572_3999	sce_3329	0.00E+00	0.00E+00
SCE1572_4	sce_4	1.00E-76	1.00E-83
SCE1572_400	sce_8410	2.00E-45	5.00E-35
SCE1572_4000	sce_3330	2.00E-144	2.00E-136
SCE1572_4001	sce_3331	0.00E+00	0.00E+00
SCE1572_4002	sce_3332	0.00E+00	0.00E+00
SCE1572_4003	sce_3333	1.00E-77	1.00E-77
SCE1572_4005	sce_3335	2.00E-56	4.00E-56
SCE1572_4006	sce_3336	0.00E+00	0.00E+00
SCE1572_4007	sce_3337	0.00E+00	0.00E+00
SCE1572_4008	sce_3338	5.00E-49	5.00E-60
SCE1572_4009	sce_3339	0.00E+00	0.00E+00
SCE1572_4010	sce_3340	0.00E+00	0.00E+00
SCE1572_4011	sce_3341	8.00E-113	7.00E-111
SCE1572_4012	sce_3342	0.00E+00	0.00E+00
SCE1572_4013	sce_3343	6.00E-172	1.00E-155
SCE1572_4015	sce_3344	3.00E-51	5.00E-53
SCE1572_4017	sce_3345	9.00E-116	1.00E-113
SCE1572_4018	sce_3346	0.00E+00	0.00E+00
SCE1572_4019	sce_3347	2.00E-123	5.00E-111
SCE1572_4020	sce_3348	7.00E-95	1.00E-86
SCE1572_4021	sce_3349	2.00E-112	2.00E-112
SCE1572_4022	sce_3350	0.00E+00	0.00E+00
SCE1572_4023	sce_3351	5.00E-78	2.00E-80
SCE1572_4024	sce_3352	0.00E+00	0.00E+00
SCE1572_4025	sce_3353	2.00E-150	6.00E-138
SCE1572_4026	sce_3354	0.00E+00	0.00E+00
SCE1572_4027	sce_3355	0.00E+00	0.00E+00
SCE1572_4028	sce_3356	2.00E-108	2.00E-108
SCE1572_4029	sce_3357	1.00E-92	1.00E-92
SCE1572_4030	sce_3358	4.00E-116	5.00E-120
SCE1572_4031	sce_3360	1.00E-115	1.00E-115
SCE1572_4032	sce_3361	1.00E-97	1.00E-97
SCE1572_4034	sce_3362	2.00E-99	2.00E-99
SCE1572_4035	sce_3363	6.00E-165	5.00E-165
SCE1572_4036	sce_3364	8.00E-107	1.00E-119
SCE1572_4037	sce_3365	2.00E-65	3.00E-59
SCE1572_4038	sce_3366	0.00E+00	0.00E+00
SCE1572_404	sce_224	9.00E-155	9.00E-155
SCE1572_4041	sce_3368	0.00E+00	0.00E+00
SCE1572_4043	sce_3369	0.00E+00	0.00E+00
SCE1572_4044	sce_3370	4.00E-104	4.00E-96
SCE1572_4045	sce_3372	0.00E+00	0.00E+00
SCE1572_4047	sce_3374	9.00E-164	7.00E-158
SCE1572_4048	sce_5533	1.00E-66	7.00E-59
SCE1572_4049	sce_3375	9.00E-143	3.00E-143
SCE1572_405	sce_225	0.00E+00	0.00E+00
SCE1572_405	sce_2161	0.00E+00	0.00E+00
SCE1572_405	sce_6235	0.00E+00	0.00E+00
SCE1572_405	sce_8357	0.00E+00	0.00E+00
SCE1572_405	sce_5276	0.00E+00	0.00E+00
SCE1572_4050	sce_3376	0.00E+00	0.00E+00
SCE1572_4050	sce_5364	0.00E+00	0.00E+00
SCE1572_4050	sce_4711	0.00E+00	0.00E+00
SCE1572_4051	sce_3377	6.00E-95	6.00E-95
SCE1572_4052	sce_3378	9.00E-150	1.00E-157
SCE1572_4053	sce_3379	1.00E-173	5.00E-166
SCE1572_4054	sce_3380	4.00E-126	4.00E-126
SCE1572_4055	sce_3381	0.00E+00	0.00E+00
SCE1572_4056	sce_3382	1.00E-89	2.00E-107
SCE1572_4058	sce_3383	1.00E-99	1.00E-75
SCE1572_4059	sce_3384	2.00E-174	0.00E+00
SCE1572_4060	sce_3385	9.00E-75	9.00E-75
SCE1572_4061	sce_3386	1.00E-132	5.00E-137
SCE1572_4062	sce_3387	2.00E-124	1.00E-124

SCE1572_4063	sce_3388	2.00E-119	2.00E-133
SCE1572_4065	sce_3390	0.00E+00	0.00E+00
SCE1572_4066	sce_3391	0.00E+00	0.00E+00
SCE1572_4067	sce_3392	2.00E-66	1.00E-65
SCE1572_4068	sce_3393	0.00E+00	0.00E+00
SCE1572_407	sce_226	4.00E-82	4.00E-82
SCE1572_4070	sce_3394	1.00E-79	2.00E-87
SCE1572_4071	sce_3396	2.00E-55	4.00E-50
SCE1572_4072	sce_3397	0.00E+00	0.00E+00
SCE1572_4073	sce_3398	0.00E+00	0.00E+00
SCE1572_4074	sce_3399	0.00E+00	0.00E+00
SCE1572_4075	sce_3401	4.00E-60	4.00E-47
SCE1572_4077	sce_3403	1.00E-70	1.00E-70
SCE1572_4078	sce_3404	2.00E-114	2.00E-122
SCE1572_408	sce_227	0.00E+00	0.00E+00
SCE1572_4080	sce_3406	0.00E+00	0.00E+00
SCE1572_4084	sce_3407	1.00E-94	1.00E-105
SCE1572_4085	sce_3410	1.00E-47	3.00E-48
SCE1572_4086	sce_3412	0.00E+00	0.00E+00
SCE1572_4089	sce_3415	2.00E-175	1.00E-170
SCE1572_409	sce_5625	2.00E-116	1.00E-121
SCE1572_4090	sce_3416	1.00E-126	4.00E-135
SCE1572_4091	sce_3417	2.00E-147	1.00E-151
SCE1572_4092	sce_3418	2.00E-92	2.00E-92
SCE1572_4093	sce_3419	2.00E-125	1.00E-138
SCE1572_4095	sce_3420	0.00E+00	0.00E+00
SCE1572_4098	sce_3422	9.00E-53	2.00E-52
SCE1572_41	sce_42	4.00E-62	1.00E-57
SCE1572_410	sce_228	2.00E-39	1.00E-48
SCE1572_4100	sce_3438	0.00E+00	0.00E+00
SCE1572_4101	sce_3439	0.00E+00	0.00E+00
SCE1572_4105	sce_3459	6.00E-135	6.00E-142
SCE1572_411	sce_229	0.00E+00	0.00E+00
SCE1572_411	sce_805	0.00E+00	0.00E+00
SCE1572_4110	sce_3461	1.00E-140	2.00E-141
SCE1572_4111	sce_3462	1.00E-102	1.00E-102
SCE1572_4112	sce_3463	2.00E-82	2.00E-95
SCE1572_4113	sce_3464	5.00E-122	6.00E-128
SCE1572_4115	sce_3465	4.00E-168	3.00E-157
SCE1572_4116	sce_7384	1.00E-67	1.00E-70
SCE1572_4118	sce_3468	2.00E-121	3.00E-124
SCE1572_4119	sce_3469	4.00E-103	4.00E-103
SCE1572_412	sce_230	8.00E-75	2.00E-83
SCE1572_4122	sce_3467	6.00E-74	2.00E-74
SCE1572_4125	sce_3471	1.00E-128	2.00E-180
SCE1572_4128	sce_3472	4.00E-65	5.00E-65
SCE1572_4129	sce_3473	0.00E+00	0.00E+00
SCE1572_413	sce_231	0.00E+00	0.00E+00
SCE1572_4130	sce_3474	6.00E-138	6.00E-138
SCE1572_4131	sce_3475	3.00E-21	5.00E-19
SCE1572_4132	sce_3476	0.00E+00	0.00E+00
SCE1572_4133	sce_3477	6.00E-73	2.00E-83
SCE1572_4138	sce_3483	2.00E-129	8.00E-139
SCE1572_4139	sce_3484	2.00E-105	7.00E-114
SCE1572_414	sce_232	6.00E-40	1.00E-46
SCE1572_4140	sce_3485	1.00E-178	1.00E-174
SCE1572_4141	sce_3486	7.00E-153	1.00E-139
SCE1572_4147	sce_7614	1.00E-82	1.00E-76
SCE1572_4148	sce_7615	2.00E-39	2.00E-39
SCE1572_4151	sce_3080	1.00E-173	2.00E-153
SCE1572_4152	sce_8359	1.00E-80	1.00E-73
SCE1572_4155	sce_2035	1.00E-104	6.00E-101
SCE1572_4156	sce_3492	0.00E+00	0.00E+00
SCE1572_4158	sce_2442	8.00E-66	2.00E-63
SCE1572_4166	sce_9855	2.00E-20	7.00E-18
SCE1572_4171	sce_3495	0.00E+00	0.00E+00
SCE1572_4172	sce_3496	0.00E+00	0.00E+00
SCE1572_4173	sce_3497	0.00E+00	0.00E+00
SCE1572_4174	sce_3498	3.00E-48	3.00E-54
SCE1572_4179	sce_3503	2.00E-44	9.00E-65
SCE1572_418	sce_9373	0.00E+00	0.00E+00
SCE1572_418	sce_4062	0.00E+00	0.00E+00
SCE1572_4180	sce_3504	5.00E-55	1.00E-51
SCE1572_4181	sce_3505	0.00E+00	0.00E+00
SCE1572_4184	sce_3506	4.00E-78	1.00E-78
SCE1572_4185	sce_3507	0.00E+00	0.00E+00

SCE1572_4186	sce_3508	6.00E-57	9.00E-57
SCE1572_4187	sce_3509	0.00E+00	0.00E+00
SCE1572_4188	sce_3510	0.00E+00	0.00E+00
SCE1572_4189	sce_3511	0.00E+00	0.00E+00
SCE1572_419	sce_233	0.00E+00	0.00E+00
SCE1572_4190	sce_3512	0.00E+00	0.00E+00
SCE1572_4191	sce_3513	0.00E+00	0.00E+00
SCE1572_4192	sce_3514	0.00E+00	0.00E+00
SCE1572_4193	sce_3515	2.00E-131	3.00E-131
SCE1572_4194	sce_3516	9.00E-146	5.00E-139
SCE1572_4195	sce_3517	2.00E-120	4.00E-123
SCE1572_4199	sce_3518	6.00E-138	9.00E-126
SCE1572_420	sce_234	5.00E-101	7.00E-91
SCE1572_4200	sce_479	3.00E-85	9.00E-107
SCE1572_4201	sce_3519	1.00E-58	3.00E-49
SCE1572_4202	sce_3520	0.00E+00	0.00E+00
SCE1572_4202	sce_10425	0.00E+00	0.00E+00
SCE1572_4202	sce_7361	0.00E+00	0.00E+00
SCE1572_4203	sce_3521	2.00E-156	2.00E-156
SCE1572_4204	sce_3522	7.00E-37	6.00E-27
SCE1572_4205	sce_3523	3.00E-120	5.00E-114
SCE1572_4206	sce_3524	0.00E+00	0.00E+00
SCE1572_4207	sce_3525	4.00E-140	2.00E-139
SCE1572_4208	sce_3526	8.00E-136	9.00E-125
SCE1572_4209	sce_3527	2.00E-137	3.00E-136
SCE1572_421	sce_235	2.00E-72	6.00E-78
SCE1572_4210	sce_3528	5.00E-22	2.00E-15
SCE1572_4211	sce_3529	0.00E+00	0.00E+00
SCE1572_4213	sce_3531	2.00E-124	2.00E-124
SCE1572_4215	sce_3533	0.00E+00	0.00E+00
SCE1572_4216	sce_3534	0.00E+00	0.00E+00
SCE1572_4217	sce_3535	0.00E+00	0.00E+00
SCE1572_4219	sce_3536	1.00E-148	2.00E-152
SCE1572_422	sce_236	0.00E+00	0.00E+00
SCE1572_4220	sce_3537	1.00E-46	4.00E-50
SCE1572_4221	sce_3538	2.00E-108	2.00E-108
SCE1572_4222	sce_10449	2.00E-06	4.00E-08
SCE1572_4223	sce_3539	3.00E-62	3.00E-64
SCE1572_4225	sce_3540	0.00E+00	0.00E+00
SCE1572_4227	sce_3542	0.00E+00	0.00E+00
SCE1572_4228	sce_1020	2.00E-122	3.00E-126
SCE1572_4229	sce_118	1.00E-165	2.00E-148
SCE1572_423	sce_237	3.00E-71	6.00E-68
SCE1572_4232	sce_116	5.00E-110	2.00E-67
SCE1572_4233	sce_115	3.00E-50	3.00E-30
SCE1572_4234	sce_114	2.00E-26	2.00E-24
SCE1572_4235	sce_113	1.00E-29	1.00E-29
SCE1572_4236	sce_3543	4.00E-127	2.00E-130
SCE1572_4237	sce_3544	2.00E-173	3.00E-173
SCE1572_4239	sce_3545	6.00E-131	8.00E-123
SCE1572_424	sce_238	1.00E-137	1.00E-140
SCE1572_4240	sce_1034	2.00E-107	8.00E-113
SCE1572_4244	sce_3546	0.00E+00	0.00E+00
SCE1572_4245	sce_3547	4.00E-97	2.00E-82
SCE1572_4246	sce_3548	1.00E-38	4.00E-41
SCE1572_4247	sce_3549	1.00E-175	2.00E-175
SCE1572_4248	sce_3550	0.00E+00	0.00E+00
SCE1572_425	sce_7595	3.00E-110	3.00E-110
SCE1572_4250	sce_3551	0.00E+00	0.00E+00
SCE1572_4251	sce_3553	7.00E-53	6.00E-43
SCE1572_4252	sce_3554	2.00E-62	5.00E-67
SCE1572_4255	sce_3556	1.00E-32	2.00E-32
SCE1572_4256	sce_3557	7.00E-120	2.00E-119
SCE1572_4258	sce_3559	2.00E-114	5.00E-117
SCE1572_426	sce_7596	1.00E-59	4.00E-61
SCE1572_4260	sce_9165	0.00E+00	0.00E+00
SCE1572_4268	sce_4615	7.00E-28	6.00E-29
SCE1572_427	sce_7597	2.00E-105	2.00E-104
SCE1572_4273	sce_4652	1.00E-08	8.00E-08
SCE1572_428	sce_821	2.00E-64	2.00E-78
SCE1572_4282	sce_3583	1.00E-53	4.00E-53
SCE1572_4284	sce_4504	4.00E-114	4.00E-114
SCE1572_4288	sce_3587	1.00E-143	2.00E-150
SCE1572_4289	sce_2038	1.00E-99	2.00E-99
SCE1572_429	sce_9917	0.00E+00	0.00E+00
SCE1572_4292	sce_3630	7.00E-142	8.00E-142

SCE1572_4293	sce_3631	0.00E+00	0.00E+00
SCE1572_4294	sce_3632	0.00E+00	0.00E+00
SCE1572_4295	sce_3633	2.00E-107	2.00E-113
SCE1572_4296	sce_3634	0.00E+00	0.00E+00
SCE1572_4299	sce_3635	0.00E+00	0.00E+00
SCE1572_430	sce_9918	0.00E+00	0.00E+00
SCE1572_430	sce_894	0.00E+00	0.00E+00
SCE1572_430	sce_6531	0.00E+00	0.00E+00
SCE1572_4300	sce_3636	0.00E+00	0.00E+00
SCE1572_4301	sce_3637	0.00E+00	0.00E+00
SCE1572_4303	sce_1742	3.00E-32	1.00E-31
SCE1572_4304	sce_6369	4.00E-60	2.00E-65
SCE1572_4305	sce_6370	1.00E-104	2.00E-102
SCE1572_4306	sce_6371	9.00E-63	4.00E-65
SCE1572_4307	sce_6372	9.00E-110	2.00E-118
SCE1572_431	sce_893	0.00E+00	0.00E+00
SCE1572_4311	sce_3642	0.00E+00	0.00E+00
SCE1572_4312	sce_3643	0.00E+00	0.00E+00
SCE1572_4314	sce_5479	0.00E+00	0.00E+00
SCE1572_4315	sce_5478	1.00E-54	4.00E-62
SCE1572_4316	sce_5477	0.00E+00	2.00E-177
SCE1572_4317	sce_5476	2.00E-168	7.00E-178
SCE1572_4318	sce_5475	0.00E+00	0.00E+00
SCE1572_4318	sce_6689	0.00E+00	0.00E+00
SCE1572_4319	sce_5474	8.00E-180	0.00E+00
SCE1572_432	sce_247	0.00E+00	0.00E+00
SCE1572_432	sce_2052	0.00E+00	0.00E+00
SCE1572_4325	sce_9304	4.00E-56	1.00E-61
SCE1572_4326	sce_1249	4.00E-48	2.00E-63
SCE1572_4327	sce_3613	2.00E-62	3.00E-60
SCE1572_4328	sce_3644	5.00E-158	1.00E-147
SCE1572_4329	sce_3645	2.00E-139	1.00E-139
SCE1572_433	sce_248	0.00E+00	0.00E+00
SCE1572_433	sce_3612	0.00E+00	0.00E+00
SCE1572_433	sce_886	0.00E+00	0.00E+00
SCE1572_433	sce_5797	0.00E+00	0.00E+00
SCE1572_4331	sce_1730	7.00E-126	6.00E-128
SCE1572_4332	sce_1731	5.00E-135	2.00E-141
SCE1572_4334	sce_1451	6.00E-101	9.00E-95
SCE1572_4336	sce_9941	3.00E-179	0.00E+00
SCE1572_4338	sce_3614	0.00E+00	0.00E+00
SCE1572_4339	sce_3615	3.00E-82	4.00E-90
SCE1572_4340	sce_3617	0.00E+00	0.00E+00
SCE1572_4341	sce_3618	2.00E-155	4.00E-169
SCE1572_4342	sce_3619	1.00E-155	0.00E+00
SCE1572_4343	sce_3620	6.00E-51	2.00E-51
SCE1572_4345	sce_6956	4.00E-50	9.00E-56
SCE1572_4347	sce_3647	1.00E-45	2.00E-45
SCE1572_4348	sce_3648	1.00E-131	8.00E-131
SCE1572_435	sce_9784	5.00E-124	2.00E-117
SCE1572_4350	sce_8789	0.00E+00	0.00E+00
SCE1572_4351	sce_8790	1.00E-116	2.00E-116
SCE1572_4353	sce_10400	1.00E-123	2.00E-123
SCE1572_4357	sce_4503	5.00E-180	2.00E-178
SCE1572_4358	sce_4502	1.00E-151	3.00E-152
SCE1572_4359	sce_3650	4.00E-72	6.00E-83
SCE1572_436	sce_9783	7.00E-107	2.00E-119
SCE1572_4360	sce_3651	0.00E+00	0.00E+00
SCE1572_4366	sce_3652	6.00E-85	5.00E-85
SCE1572_4367	sce_3653	0.00E+00	0.00E+00
SCE1572_4367	sce_2815	0.00E+00	0.00E+00
SCE1572_4368	sce_3654	2.00E-124	2.00E-124
SCE1572_4369	sce_3656	0.00E+00	0.00E+00
SCE1572_437	sce_251	0.00E+00	0.00E+00
SCE1572_4372	sce_1774	5.00E-138	1.00E-119
SCE1572_4375	sce_7552	1.00E-71	3.00E-141
SCE1572_4378	sce_7961	5.00E-28	3.00E-28
SCE1572_4379	sce_2664	3.00E-104	3.00E-113
SCE1572_4380	sce_9237	0.00E+00	0.00E+00
SCE1572_4380	sce_2666	0.00E+00	0.00E+00
SCE1572_4381	sce_9236	0.00E+00	0.00E+00
SCE1572_4381	sce_389	0.00E+00	0.00E+00
SCE1572_4387	sce_3657	0.00E+00	0.00E+00
SCE1572_4388	sce_5785	2.00E-67	1.00E-74
SCE1572_4390	sce_8231	3.00E-145	9.00E-150
SCE1572_4391	sce_3655	0.00E+00	0.00E+00

SCE1572_4392	sce_7959	2.00E-175	0.00E+00
SCE1572_4393	sce_5977	2.00E-32	1.00E-52
SCE1572_4394	sce_5975	3.00E-102	1.00E-112
SCE1572_4397	sce_3659	0.00E+00	0.00E+00
SCE1572_4398	sce_3660	0.00E+00	0.00E+00
SCE1572_44	sce_43	3.00E-97	1.00E-104
SCE1572_4400	sce_3662	2.00E-126	3.00E-113
SCE1572_4401	sce_3663	2.00E-56	1.00E-57
SCE1572_4424	sce_3665	0.00E+00	0.00E+00
SCE1572_4424	sce_549	0.00E+00	0.00E+00
SCE1572_4426	sce_7566	5.00E-112	5.00E-112
SCE1572_4427	sce_7565	3.00E-156	2.00E-159
SCE1572_4429	sce_3666	3.00E-152	5.00E-153
SCE1572_4430	sce_3667	2.00E-147	7.00E-115
SCE1572_4431	sce_3668	1.00E-87	3.00E-79
SCE1572_4434	sce_7318	0.00E+00	0.00E+00
SCE1572_4434	sce_1116	0.00E+00	0.00E+00
SCE1572_4434	sce_5158	0.00E+00	0.00E+00
SCE1572_4435	sce_1685	2.00E-19	5.00E-19
SCE1572_4438	sce_5548	5.00E-09	3.00E-09
SCE1572_4439	sce_5547	2.00E-17	4.00E-18
SCE1572_444	sce_257	9.00E-64	1.00E-63
SCE1572_4440	sce_3676	0.00E+00	0.00E+00
SCE1572_4441	sce_3678	0.00E+00	0.00E+00
SCE1572_4442	sce_3679	0.00E+00	0.00E+00
SCE1572_4443	sce_6978	2.00E-31	2.00E-34
SCE1572_4444	sce_3689	0.00E+00	0.00E+00
SCE1572_4445	sce_3690	0.00E+00	0.00E+00
SCE1572_4447	sce_3691	0.00E+00	0.00E+00
SCE1572_4448	sce_3692	2.00E-61	1.00E-58
SCE1572_4449	sce_4170	4.00E-16	5.00E-18
SCE1572_445	sce_258	4.00E-148	4.00E-144
SCE1572_4450	sce_7444	3.00E-64	3.00E-64
SCE1572_4450	sce_4542	3.00E-64	3.00E-64
SCE1572_4452	sce_9472	1.00E-49	5.00E-50
SCE1572_4453	sce_3693	9.00E-113	9.00E-110
SCE1572_4454	sce_3694	5.00E-84	2.00E-94
SCE1572_4455	sce_3696	6.00E-147	2.00E-140
SCE1572_4456	sce_3699	8.00E-105	5.00E-98
SCE1572_4458	sce_3700	3.00E-169	2.00E-167
SCE1572_4459	sce_3702	1.00E-142	1.00E-142
SCE1572_446	sce_259	0.00E+00	0.00E+00
SCE1572_4460	sce_7662	2.00E-12	1.00E-11
SCE1572_4461	sce_7663	2.00E-54	3.00E-48
SCE1572_4463	sce_7475	0.00E+00	0.00E+00
SCE1572_4466	sce_3703	3.00E-171	2.00E-171
SCE1572_4469	sce_7563	0.00E+00	0.00E+00
SCE1572_447	sce_260	3.00E-136	3.00E-136
SCE1572_4470	sce_3713	4.00E-63	1.00E-63
SCE1572_4471	sce_3714	3.00E-172	0.00E+00
SCE1572_4475	sce_5993	0.00E+00	0.00E+00
SCE1572_4476	sce_1358	7.00E-39	6.00E-55
SCE1572_4478	sce_6103	2.00E-49	4.00E-48
SCE1572_448	sce_261	0.00E+00	0.00E+00
SCE1572_4480	sce_6105	3.00E-34	2.00E-24
SCE1572_4486	sce_7885	9.00E-75	6.00E-75
SCE1572_4487	sce_3726	5.00E-113	1.00E-121
SCE1572_4489	sce_3719	2.00E-124	6.00E-140
SCE1572_449	sce_262	9.00E-108	2.00E-107
SCE1572_4490	sce_7400	7.00E-114	7.00E-108
SCE1572_4491	sce_6061	8.00E-68	4.00E-74
SCE1572_4493	sce_2657	3.00E-149	6.00E-139
SCE1572_4494	sce_7608	1.00E-07	3.00E-06
SCE1572_4495	sce_3745	0.00E+00	0.00E+00
SCE1572_4496	sce_3746	5.00E-84	8.00E-89
SCE1572_4497	sce_3747	2.00E-143	2.00E-145
SCE1572_4498	sce_3748	5.00E-153	0.00E+00
SCE1572_4499	sce_3749	5.00E-99	5.00E-99
SCE1572_45	sce_44	6.00E-154	6.00E-156
SCE1572_450	sce_263	1.00E-179	2.00E-169
SCE1572_4500	sce_3763	7.00E-111	1.00E-109
SCE1572_4501	sce_3764	3.00E-56	1.00E-119
SCE1572_4504	sce_3765	0.00E+00	0.00E+00
SCE1572_4504	sce_9407	0.00E+00	0.00E+00
SCE1572_4504	sce_8451	0.00E+00	0.00E+00
SCE1572_4504	sce_4817	0.00E+00	0.00E+00

SCE1572_4507	sce_3766	4.00E-141	1.00E-139
SCE1572_4508	sce_3767	2.00E-27	1.00E-25
SCE1572_4509	sce_3769	5.00E-78	4.00E-78
SCE1572_451	sce_267	6.00E-97	2.00E-88
SCE1572_4510	sce_3770	2.00E-107	6.00E-117
SCE1572_4514	sce_3771	9.00E-138	9.00E-138
SCE1572_4515	sce_3772	1.00E-41	1.00E-43
SCE1572_4516	sce_3773	1.00E-92	3.00E-89
SCE1572_4517	sce_3774	0.00E+00	5.00E-167
SCE1572_4519	sce_3778	2.00E-162	2.00E-162
SCE1572_452	sce_268	1.00E-53	3.00E-53
SCE1572_4520	sce_8632	1.00E-112	1.00E-112
SCE1572_4521	sce_3779	2.00E-123	8.00E-110
SCE1572_4523	sce_3782	4.00E-63	1.00E-63
SCE1572_4524	sce_3783	3.00E-142	7.00E-142
SCE1572_4525	sce_3784	6.00E-107	1.00E-95
SCE1572_4526	sce_3785	1.00E-87	6.00E-95
SCE1572_4527	sce_3787	3.00E-122	2.00E-125
SCE1572_4529	sce_3788	3.00E-126	2.00E-111
SCE1572_453	sce_269	0.00E+00	0.00E+00
SCE1572_4530	sce_3789	2.00E-135	6.00E-152
SCE1572_4533	sce_3790	3.00E-175	4.00E-175
SCE1572_4534	sce_3791	4.00E-144	3.00E-160
SCE1572_4535	sce_3792	1.00E-45	2.00E-42
SCE1572_4536	sce_9770	2.00E-150	5.00E-143
SCE1572_4538	sce_3794	0.00E+00	0.00E+00
SCE1572_4539	sce_3796	6.00E-99	8.00E-98
SCE1572_4540	sce_3793	0.00E+00	0.00E+00
SCE1572_4540	sce_7069	0.00E+00	0.00E+00
SCE1572_4540	sce_5086	0.00E+00	0.00E+00
SCE1572_4541	sce_3794	0.00E+00	0.00E+00
SCE1572_4543	sce_3797	0.00E+00	0.00E+00
SCE1572_4544	sce_3798	0.00E+00	0.00E+00
SCE1572_4552	sce_1380	0.00E+00	0.00E+00
SCE1572_4553	sce_1379	3.00E-88	5.00E-89
SCE1572_4557	sce_3799	3.00E-155	4.00E-155
SCE1572_4558	sce_3801	8.00E-163	9.00E-152
SCE1572_4559	sce_3802	1.00E-79	6.00E-75
SCE1572_4563	sce_3813	8.00E-38	8.00E-38
SCE1572_4564	sce_3814	2.00E-16	3.00E-17
SCE1572_4565	sce_3816	0.00E+00	0.00E+00
SCE1572_4566	sce_3818	3.00E-78	2.00E-83
SCE1572_4567	sce_3819	9.00E-139	9.00E-139
SCE1572_4568	sce_3820	2.00E-10	3.00E-11
SCE1572_458	sce_270	0.00E+00	0.00E+00
SCE1572_4580	sce_3097	1.00E-155	2.00E-154
SCE1572_4582	sce_3821	0.00E+00	0.00E+00
SCE1572_4583	sce_3822	7.00E-08	1.00E-07
SCE1572_4584	sce_3823	1.00E-142	1.00E-142
SCE1572_4585	sce_3824	3.00E-132	4.00E-126
SCE1572_4586	sce_3825	0.00E+00	0.00E+00
SCE1572_4587	sce_3826	0.00E+00	0.00E+00
SCE1572_4588	sce_3827	9.00E-60	2.00E-58
SCE1572_4589	sce_3828	8.00E-56	5.00E-54
SCE1572_459	sce_271	9.00E-112	3.00E-111
SCE1572_4591	sce_3829	3.00E-18	1.00E-18
SCE1572_4592	sce_3830	0.00E+00	0.00E+00
SCE1572_4593	sce_3831	5.00E-93	4.00E-93
SCE1572_4594	sce_3832	2.00E-150	2.00E-144
SCE1572_4596	sce_3833	0.00E+00	0.00E+00
SCE1572_4598	sce_3835	0.00E+00	0.00E+00
SCE1572_46	sce_45	8.00E-155	3.00E-146
SCE1572_460	sce_272	3.00E-08	5.00E-14
SCE1572_4600	sce_3837	2.00E-180	0.00E+00
SCE1572_4602	sce_3838	2.00E-75	1.00E-68
SCE1572_4603	sce_3839	0.00E+00	0.00E+00
SCE1572_4604	sce_3840	1.00E-103	4.00E-105
SCE1572_4605	sce_3841	5.00E-137	3.00E-130
SCE1572_4606	sce_3842	1.00E-69	7.00E-59
SCE1572_4607	sce_3843	2.00E-92	5.00E-92
SCE1572_4608	sce_3844	7.00E-124	1.00E-134
SCE1572_4609	sce_3845	3.00E-14	1.00E-14
SCE1572_461	sce_273	3.00E-25	1.00E-21
SCE1572_4610	sce_3846	2.00E-140	2.00E-136
SCE1572_4611	sce_3847	5.00E-140	1.00E-136
SCE1572_4618	sce_3850	0.00E+00	0.00E+00

SCE1572_462	sce_274	2.00E-101	3.00E-108
SCE1572_4623	sce_3852	3.00E-64	2.00E-72
SCE1572_4624	sce_3853	3.00E-75	3.00E-75
SCE1572_4625	sce_3855	3.00E-64	1.00E-66
SCE1572_4626	sce_3856	6.00E-98	9.00E-92
SCE1572_4627	sce_3857	3.00E-40	2.00E-40
SCE1572_4629	sce_3859	0.00E+00	0.00E+00
SCE1572_4629	sce_3861	0.00E+00	0.00E+00
SCE1572_463	sce_277	1.00E-127	2.00E-125
SCE1572_4630	sce_6341	0.00E+00	0.00E+00
SCE1572_4633	sce_3860	0.00E+00	0.00E+00
SCE1572_4634	sce_3861	0.00E+00	0.00E+00
SCE1572_4634	sce_3859	0.00E+00	0.00E+00
SCE1572_4637	sce_3862	0.00E+00	0.00E+00
SCE1572_4638	sce_3863	1.00E-135	1.00E-132
SCE1572_4639	sce_3864	9.00E-72	2.00E-96
SCE1572_4640	sce_3865	2.00E-106	1.00E-104
SCE1572_4644	sce_10174	3.00E-105	1.00E-105
SCE1572_4645	sce_3868	0.00E+00	0.00E+00
SCE1572_4646	sce_3869	3.00E-123	4.00E-139
SCE1572_4648	sce_3870	3.00E-52	2.00E-49
SCE1572_4650	sce_3872	3.00E-172	1.00E-164
SCE1572_4651	sce_3873	2.00E-165	3.00E-168
SCE1572_4652	sce_3874	0.00E+00	0.00E+00
SCE1572_4653	sce_3875	0.00E+00	0.00E+00
SCE1572_4654	sce_3876	1.00E-89	7.00E-84
SCE1572_4657	sce_3877	7.00E-51	2.00E-59
SCE1572_4658	sce_3878	2.00E-147	2.00E-147
SCE1572_4659	sce_4570	2.00E-62	2.00E-69
SCE1572_466	sce_278	2.00E-161	4.00E-151
SCE1572_4660	sce_3881	6.00E-67	4.00E-67
SCE1572_4661	sce_3882	1.00E-97	5.00E-78
SCE1572_4662	sce_3883	0.00E+00	0.00E+00
SCE1572_4662	sce_9757	0.00E+00	0.00E+00
SCE1572_4662	sce_5226	0.00E+00	0.00E+00
SCE1572_4662	sce_5403	0.00E+00	0.00E+00
SCE1572_4662	sce_7154	0.00E+00	0.00E+00
SCE1572_4664	sce_3885	4.00E-156	6.00E-145
SCE1572_4665	sce_3886	6.00E-61	1.00E-56
SCE1572_4666	sce_3887	4.00E-34	9.00E-35
SCE1572_467	sce_279	0.00E+00	0.00E+00
SCE1572_4670	sce_7871	9.00E-124	5.00E-124
SCE1572_4673	sce_3906	0.00E+00	0.00E+00
SCE1572_4674	sce_3907	6.00E-49	6.00E-49
SCE1572_4675	sce_3910	1.00E-137	6.00E-130
SCE1572_468	sce_280	5.00E-127	2.00E-132
SCE1572_4684	sce_1283	0.00E+00	0.00E+00
SCE1572_4685	sce_1282	0.00E+00	0.00E+00
SCE1572_4689	sce_8439	3.00E-163	5.00E-154
SCE1572_469	sce_281	6.00E-118	6.00E-118
SCE1572_4693	sce_1662	0.00E+00	0.00E+00
SCE1572_4696	sce_7939	6.00E-137	8.00E-137
SCE1572_4697	sce_5765	1.00E-19	3.00E-25
SCE1572_4699	sce_3926	4.00E-112	2.00E-95
SCE1572_47	sce_46	1.00E-145	2.00E-149
SCE1572_470	sce_282	7.00E-137	1.00E-140
SCE1572_4700	sce_3927	2.00E-89	1.00E-84
SCE1572_4701	sce_5100	5.00E-16	8.00E-21
SCE1572_4703	sce_3929	3.00E-88	1.00E-98
SCE1572_4704	sce_3930	8.00E-86	9.00E-86
SCE1572_4705	sce_3931	4.00E-155	5.00E-145
SCE1572_4706	sce_3932	2.00E-133	3.00E-133
SCE1572_4707	sce_3933	2.00E-112	1.00E-112
SCE1572_4709	sce_9357	0.00E+00	0.00E+00
SCE1572_4710	sce_3935	3.00E-79	5.00E-82
SCE1572_4711	sce_8816	0.00E+00	0.00E+00
SCE1572_4712	sce_8817	0.00E+00	0.00E+00
SCE1572_4712	sce_10193	0.00E+00	0.00E+00
SCE1572_4712	sce_3499	0.00E+00	0.00E+00
SCE1572_4713	sce_3939	0.00E+00	0.00E+00
SCE1572_4714	sce_3940	3.00E-84	4.00E-93
SCE1572_4716	sce_3941	1.00E-59	7.00E-48
SCE1572_4717	sce_3942	1.00E-80	2.00E-86
SCE1572_4718	sce_3943	3.00E-78	5.00E-91
SCE1572_4719	sce_3945	0.00E+00	0.00E+00
SCE1572_472	sce_283	2.00E-55	6.00E-62

SCE1572_4720	sce_3946	5.00E-129	6.00E-129
SCE1572_4721	sce_3947	4.00E-159	2.00E-162
SCE1572_4722	sce_3948	1.00E-160	2.00E-169
SCE1572_4723	sce_3949	3.00E-44	3.00E-44
SCE1572_4724	sce_3950	8.00E-37	1.00E-44
SCE1572_4725	sce_3951	0.00E+00	0.00E+00
SCE1572_4726	sce_3952	0.00E+00	0.00E+00
SCE1572_4727	sce_6342	1.00E-120	4.00E-122
SCE1572_4728	sce_6341	0.00E+00	0.00E+00
SCE1572_4729	sce_6340	6.00E-35	7.00E-28
SCE1572_473	sce_284	3.00E-118	3.00E-118
SCE1572_4730	sce_6339	0.00E+00	0.00E+00
SCE1572_4731	sce_6338	2.00E-146	8.00E-160
SCE1572_4732	sce_6337	3.00E-84	2.00E-63
SCE1572_4733	sce_6336	1.00E-59	1.00E-59
SCE1572_4734	sce_3954	8.00E-170	2.00E-173
SCE1572_4735	sce_3956	0.00E+00	0.00E+00
SCE1572_4736	sce_3957	2.00E-139	9.00E-138
SCE1572_4738	sce_3958	7.00E-51	7.00E-57
SCE1572_474	sce_285	2.00E-54	2.00E-54
SCE1572_4740	sce_3961	0.00E+00	0.00E+00
SCE1572_4741	sce_3962	6.00E-161	4.00E-175
SCE1572_4742	sce_3963	5.00E-74	4.00E-74
SCE1572_4743	sce_3965	4.00E-119	4.00E-109
SCE1572_4744	sce_3966	7.00E-42	2.00E-42
SCE1572_4745	sce_3967	0.00E+00	0.00E+00
SCE1572_4746	sce_3968	0.00E+00	0.00E+00
SCE1572_4747	sce_3969	1.00E-62	2.00E-63
SCE1572_475	sce_286	0.00E+00	0.00E+00
SCE1572_4750	sce_3971	1.00E-177	1.00E-177
SCE1572_4751	sce_3972	2.00E-178	9.00E-159
SCE1572_4752	sce_3974	2.00E-35	2.00E-35
SCE1572_4754	sce_7978	2.00E-119	2.00E-119
SCE1572_4755	sce_10127	2.00E-83	3.00E-91
SCE1572_4758	sce_3976	0.00E+00	0.00E+00
SCE1572_476	sce_287	3.00E-90	3.00E-90
SCE1572_4762	sce_3978	5.00E-154	4.00E-162
SCE1572_4763	sce_3979	3.00E-110	1.00E-111
SCE1572_4764	sce_3980	2.00E-89	8.00E-90
SCE1572_4765	sce_3981	5.00E-156	2.00E-146
SCE1572_4766	sce_3982	0.00E+00	0.00E+00
SCE1572_4767	sce_3983	8.00E-150	3.00E-140
SCE1572_477	sce_288	2.00E-91	3.00E-86
SCE1572_4771	sce_3987	4.00E-177	0.00E+00
SCE1572_4772	sce_3988	6.00E-166	2.00E-167
SCE1572_4773	sce_7233	3.00E-122	2.00E-125
SCE1572_4774	sce_3989	4.00E-25	1.00E-24
SCE1572_4776	sce_3991	0.00E+00	0.00E+00
SCE1572_4777	sce_3992	0.00E+00	0.00E+00
SCE1572_478	sce_289	5.00E-154	7.00E-145
SCE1572_4780	sce_3993	0.00E+00	0.00E+00
SCE1572_4781	sce_3995	2.00E-120	2.00E-112
SCE1572_4782	sce_3997	6.00E-27	1.00E-21
SCE1572_4783	sce_299	2.00E-121	7.00E-127
SCE1572_4785	sce_3999	0.00E+00	0.00E+00
SCE1572_4786	sce_4000	0.00E+00	0.00E+00
SCE1572_4787	sce_4001	9.00E-108	3.00E-110
SCE1572_4788	sce_4002	5.00E-135	2.00E-136
SCE1572_4789	sce_4004	0.00E+00	0.00E+00
SCE1572_479	sce_290	0.00E+00	0.00E+00
SCE1572_4790	sce_4005	4.00E-123	4.00E-121
SCE1572_4791	sce_4006	9.00E-96	1.00E-99
SCE1572_4793	sce_4007	6.00E-72	7.00E-72
SCE1572_4794	sce_4008	0.00E+00	0.00E+00
SCE1572_4795	sce_4010	7.00E-83	3.00E-73
SCE1572_4796	sce_4011	3.00E-70	2.00E-61
SCE1572_4797	sce_4012	5.00E-101	5.00E-113
SCE1572_4798	sce_4013	1.00E-45	1.00E-45
SCE1572_4799	sce_4014	0.00E+00	0.00E+00
SCE1572_48	sce_47	3.00E-119	1.00E-94
SCE1572_480	sce_291	9.00E-126	9.00E-126
SCE1572_4800	sce_4015	1.00E-90	1.00E-90
SCE1572_4801	sce_4016	3.00E-176	2.00E-173
SCE1572_4802	sce_4017	0.00E+00	0.00E+00
SCE1572_4803	sce_4018	0.00E+00	0.00E+00
SCE1572_4807	sce_4021	0.00E+00	0.00E+00

SCE1572_4808	sce_4022	8.00E-132	6.00E-138
SCE1572_4809	sce_4023	0.00E+00	0.00E+00
SCE1572_481	sce_292	6.00E-147	1.00E-144
SCE1572_4811	sce_4025	8.00E-106	1.00E-100
SCE1572_4812	sce_4026	3.00E-61	5.00E-66
SCE1572_4813	sce_4027	0.00E+00	0.00E+00
SCE1572_4814	sce_4028	4.00E-147	4.00E-138
SCE1572_4815	sce_4029	0.00E+00	0.00E+00
SCE1572_4817	sce_4031	2.00E-83	2.00E-83
SCE1572_4818	sce_4032	4.00E-40	1.00E-37
SCE1572_4819	sce_4033	4.00E-122	5.00E-132
SCE1572_482	sce_293	0.00E+00	0.00E+00
SCE1572_4820	sce_4034	0.00E+00	0.00E+00
SCE1572_4821	sce_4035	0.00E+00	0.00E+00
SCE1572_4823	sce_4036	4.00E-99	9.00E-101
SCE1572_4824	sce_4037	0.00E+00	0.00E+00
SCE1572_4825	sce_4038	4.00E-133	6.00E-133
SCE1572_4826	sce_4039	0.00E+00	0.00E+00
SCE1572_4827	sce_4040	8.00E-86	5.00E-73
SCE1572_4828	sce_4041	1.00E-33	1.00E-33
SCE1572_4829	sce_4042	7.00E-136	8.00E-155
SCE1572_483	sce_294	0.00E+00	0.00E+00
SCE1572_4830	sce_4043	8.00E-132	5.00E-143
SCE1572_4831	sce_4045	4.00E-169	1.00E-169
SCE1572_4833	sce_4046	2.00E-171	2.00E-171
SCE1572_4835	sce_4047	9.00E-68	2.00E-67
SCE1572_4836	sce_4048	2.00E-85	1.00E-94
SCE1572_4837	sce_4049	1.00E-128	5.00E-128
SCE1572_4838	sce_4050	5.00E-73	5.00E-73
SCE1572_4839	sce_4051	0.00E+00	0.00E+00
SCE1572_484	sce_295	0.00E+00	0.00E+00
SCE1572_4840	sce_4052	3.00E-76	2.00E-80
SCE1572_4841	sce_4053	0.00E+00	0.00E+00
SCE1572_4842	sce_4054	1.00E-50	3.00E-50
SCE1572_4843	sce_4055	3.00E-178	2.00E-173
SCE1572_4844	sce_4056	7.00E-109	1.00E-108
SCE1572_4845	sce_4057	2.00E-121	9.00E-135
SCE1572_4846	sce_4058	0.00E+00	0.00E+00
SCE1572_4847	sce_4059	6.00E-157	4.00E-163
SCE1572_4848	sce_4060	0.00E+00	1.00E-175
SCE1572_4849	sce_3628	3.00E-16	3.00E-18
SCE1572_485	sce_296	4.00E-113	3.00E-113
SCE1572_4851	sce_4062	0.00E+00	0.00E+00
SCE1572_4851	sce_9373	0.00E+00	0.00E+00
SCE1572_4853	sce_4063	2.00E-38	4.00E-39
SCE1572_4854	sce_4066	2.00E-95	3.00E-107
SCE1572_4855	sce_4067	3.00E-52	3.00E-59
SCE1572_4856	sce_4069	2.00E-125	1.00E-139
SCE1572_4857	sce_6129	7.00E-43	6.00E-35
SCE1572_4859	sce_4071	5.00E-129	5.00E-149
SCE1572_486	sce_297	4.00E-39	5.00E-39
SCE1572_4861	sce_4073	0.00E+00	0.00E+00
SCE1572_4861	sce_5403	0.00E+00	0.00E+00
SCE1572_4861	sce_7154	0.00E+00	0.00E+00
SCE1572_4862	sce_4075	4.00E-65	8.00E-53
SCE1572_4863	sce_4077	7.00E-123	4.00E-124
SCE1572_4864	sce_4078	1.00E-105	2.00E-120
SCE1572_4866	sce_4080	1.00E-115	1.00E-115
SCE1572_4868	sce_4081	0.00E+00	0.00E+00
SCE1572_4869	sce_4082	7.00E-45	3.00E-57
SCE1572_487	sce_298	4.00E-118	5.00E-110
SCE1572_4870	sce_4083	3.00E-51	9.00E-60
SCE1572_4871	sce_4084	4.00E-96	5.00E-96
SCE1572_4872	sce_4086	0.00E+00	0.00E+00
SCE1572_4873	sce_4087	4.00E-104	1.00E-103
SCE1572_4874	sce_4088	9.00E-93	9.00E-93
SCE1572_4875	sce_4089	2.00E-143	2.00E-143
SCE1572_4876	sce_4090	0.00E+00	0.00E+00
SCE1572_4877	sce_4091	4.00E-105	2.00E-107
SCE1572_4879	sce_4092	0.00E+00	0.00E+00
SCE1572_4880	sce_4094	7.00E-177	0.00E+00
SCE1572_4882	sce_4095	0.00E+00	0.00E+00
SCE1572_4883	sce_4096	9.00E-58	1.00E-57
SCE1572_4884	sce_4097	2.00E-110	3.00E-115
SCE1572_4889	sce_4102	9.00E-123	8.00E-159
SCE1572_4890	sce_914	1.00E-141	1.00E-141

SCE1572_49	sce_48	3.00E-92	3.00E-92
SCE1572_4901	sce_4861	0.00E+00	0.00E+00
SCE1572_4901	sce_4106	0.00E+00	0.00E+00
SCE1572_4902	sce_4107	2.00E-132	3.00E-140
SCE1572_4903	sce_4108	2.00E-147	7.00E-141
SCE1572_4906	sce_4116	2.00E-73	2.00E-73
SCE1572_4907	sce_4117	1.00E-86	3.00E-71
SCE1572_4908	sce_4118	2.00E-171	7.00E-173
SCE1572_4911	sce_4121	0.00E+00	0.00E+00
SCE1572_4912	sce_4122	2.00E-41	2.00E-41
SCE1572_4913	sce_4123	2.00E-43	2.00E-43
SCE1572_4914	sce_4124	9.00E-90	1.00E-79
SCE1572_4916	sce_4127	0.00E+00	0.00E+00
SCE1572_4917	sce_4128	2.00E-47	6.00E-72
SCE1572_4918	sce_4129	0.00E+00	0.00E+00
SCE1572_4919	sce_4130	2.00E-60	2.00E-51
SCE1572_4920	sce_4131	1.00E-45	3.00E-53
SCE1572_4921	sce_4132	4.00E-72	5.00E-66
SCE1572_4922	sce_4134	5.00E-80	4.00E-96
SCE1572_4923	sce_4135	5.00E-176	5.00E-176
SCE1572_4924	sce_4136	5.00E-103	2.00E-102
SCE1572_4925	sce_4137	0.00E+00	0.00E+00
SCE1572_4926	sce_4138	7.00E-113	2.00E-135
SCE1572_4929	sce_4140	1.00E-112	5.00E-113
SCE1572_493	sce_5846	1.00E-92	2.00E-68
SCE1572_4930	sce_4141	5.00E-143	1.00E-140
SCE1572_4931	sce_4142	5.00E-128	7.00E-121
SCE1572_4932	sce_4143	1.00E-167	7.00E-170
SCE1572_4933	sce_4144	3.00E-30	3.00E-30
SCE1572_4934	sce_4145	1.00E-76	8.00E-74
SCE1572_4935	sce_4146	8.00E-115	3.00E-113
SCE1572_4936	sce_4147	2.00E-131	2.00E-121
SCE1572_4937	sce_4149	8.00E-154	3.00E-142
SCE1572_4939	sce_4152	0.00E+00	0.00E+00
SCE1572_494	sce_5847	3.00E-38	7.00E-42
SCE1572_4940	sce_4154	1.00E-120	1.00E-120
SCE1572_4941	sce_4155	7.00E-133	2.00E-120
SCE1572_4942	sce_4156	2.00E-77	1.00E-75
SCE1572_4943	sce_4157	0.00E+00	0.00E+00
SCE1572_4944	sce_4158	8.00E-110	1.00E-88
SCE1572_4945	sce_4159	0.00E+00	0.00E+00
SCE1572_4947	sce_4161	8.00E-123	2.00E-112
SCE1572_4949	sce_4162	2.00E-71	2.00E-72
SCE1572_4950	sce_4899	8.00E-39	3.00E-34
SCE1572_4951	sce_4163	3.00E-88	3.00E-88
SCE1572_4952	sce_4164	9.00E-15	3.00E-11
SCE1572_4953	sce_1234	4.00E-23	6.00E-23
SCE1572_4955	sce_4165	4.00E-137	1.00E-142
SCE1572_4956	sce_4166	0.00E+00	0.00E+00
SCE1572_4958	sce_4167	2.00E-76	9.00E-70
SCE1572_496	sce_5848	1.00E-145	8.00E-146
SCE1572_4960	sce_4168	0.00E+00	5.00E-135
SCE1572_4961	sce_4169	2.00E-36	2.00E-37
SCE1572_4962	sce_4173	9.00E-39	9.00E-35
SCE1572_4963	sce_4174	0.00E+00	0.00E+00
SCE1572_4964	sce_4175	4.00E-74	2.00E-76
SCE1572_4965	sce_3793	0.00E+00	0.00E+00
SCE1572_4965	sce_7069	0.00E+00	0.00E+00
SCE1572_4965	sce_5086	0.00E+00	0.00E+00
SCE1572_4965	sce_6701	0.00E+00	0.00E+00
SCE1572_4965	sce_5085	0.00E+00	0.00E+00
SCE1572_4967	sce_4176	6.00E-180	0.00E+00
SCE1572_4968	sce_4177	0.00E+00	0.00E+00
SCE1572_4969	sce_4178	9.00E-94	1.00E-98
SCE1572_497	sce_2515	3.00E-42	3.00E-49
SCE1572_4972	sce_4181	8.00E-41	2.00E-46
SCE1572_4973	sce_4182	0.00E+00	0.00E+00
SCE1572_4974	sce_4183	2.00E-93	7.00E-94
SCE1572_4975	sce_4184	0.00E+00	0.00E+00
SCE1572_4976	sce_4185	0.00E+00	0.00E+00
SCE1572_4977	sce_4186	0.00E+00	0.00E+00
SCE1572_4978	sce_4187	2.00E-162	7.00E-167
SCE1572_498	sce_8618	0.00E+00	0.00E+00
SCE1572_498	sce_2065	0.00E+00	0.00E+00
SCE1572_498	sce_10204	0.00E+00	0.00E+00
SCE1572_498	sce_388	0.00E+00	0.00E+00

SCE1572_498	sce_7640	0.00E+00	0.00E+00
SCE1572_498	sce_4513	0.00E+00	0.00E+00
SCE1572_498	sce_3003	0.00E+00	0.00E+00
SCE1572_498	sce_7109	0.00E+00	0.00E+00
SCE1572_498	sce_7661	0.00E+00	0.00E+00
SCE1572_4984	sce_4189	0.00E+00	0.00E+00
SCE1572_4986	sce_4190	6.00E-160	5.00E-150
SCE1572_4987	sce_4191	0.00E+00	0.00E+00
SCE1572_4988	sce_4192	2.00E-62	5.00E-69
SCE1572_4989	sce_4193	4.00E-80	5.00E-86
SCE1572_4990	sce_4194	2.00E-113	2.00E-113
SCE1572_4991	sce_4195	7.00E-31	3.00E-26
SCE1572_4992	sce_4196	6.00E-14	4.00E-23
SCE1572_4993	sce_4197	4.00E-96	1.00E-104
SCE1572_4994	sce_4198	2.00E-172	7.00E-163
SCE1572_4995	sce_4199	2.00E-110	7.00E-117
SCE1572_4996	sce_4200	5.00E-72	6.00E-67
SCE1572_4998	sce_4201	2.00E-111	6.00E-126
SCE1572_4999	sce_4202	0.00E+00	0.00E+00
SCE1572_5	sce_5	2.00E-174	2.00E-177
SCE1572_50	sce_49	1.00E-122	2.00E-128
SCE1572_5001	sce_4203	2.00E-150	3.00E-157
SCE1572_5002	sce_4204	1.00E-77	5.00E-77
SCE1572_5003	sce_4205	3.00E-65	8.00E-67
SCE1572_5004	sce_4206	2.00E-44	4.00E-46
SCE1572_5005	sce_4207	2.00E-26	7.00E-20
SCE1572_5006	sce_4208	0.00E+00	0.00E+00
SCE1572_5007	sce_4209	1.00E-121	2.00E-121
SCE1572_5008	sce_4210	2.00E-83	3.00E-90
SCE1572_5009	sce_4211	1.00E-61	1.00E-61
SCE1572_5010	sce_4212	0.00E+00	0.00E+00
SCE1572_5011	sce_4213	4.00E-118	3.00E-119
SCE1572_5012	sce_4214	4.00E-114	5.00E-114
SCE1572_5013	sce_4215	1.00E-140	2.00E-146
SCE1572_5014	sce_4216	2.00E-171	2.00E-171
SCE1572_5015	sce_4217	7.00E-86	2.00E-91
SCE1572_5016	sce_4218	0.00E+00	0.00E+00
SCE1572_5017	sce_4219	2.00E-85	1.00E-79
SCE1572_5018	sce_4220	0.00E+00	0.00E+00
SCE1572_5019	sce_4221	3.00E-108	4.00E-107
SCE1572_5020	sce_4222	0.00E+00	0.00E+00
SCE1572_5021	sce_4223	0.00E+00	0.00E+00
SCE1572_5022	sce_4225	9.00E-157	9.00E-157
SCE1572_5024	sce_4226	0.00E+00	0.00E+00
SCE1572_5025	sce_4227	9.00E-168	9.00E-179
SCE1572_5026	sce_4228	1.00E-82	3.00E-86
SCE1572_5027	sce_4229	0.00E+00	0.00E+00
SCE1572_5028	sce_4230	5.00E-112	4.00E-134
SCE1572_5029	sce_4231	3.00E-114	2.00E-114
SCE1572_5030	sce_4232	0.00E+00	0.00E+00
SCE1572_5031	sce_4233	2.00E-65	1.00E-67
SCE1572_5032	sce_4234	0.00E+00	0.00E+00
SCE1572_5033	sce_4235	7.00E-112	2.00E-119
SCE1572_5034	sce_4236	1.00E-146	2.00E-146
SCE1572_5035	sce_4237	1.00E-125	2.00E-132
SCE1572_5037	sce_4238	0.00E+00	0.00E+00
SCE1572_5037	sce_9607	0.00E+00	0.00E+00
SCE1572_5038	sce_4239	5.00E-63	5.00E-63
SCE1572_5040	sce_4240	1.00E-135	7.00E-145
SCE1572_5041	sce_4241	1.00E-91	4.00E-98
SCE1572_5042	sce_4242	0.00E+00	0.00E+00
SCE1572_5043	sce_4243	5.00E-58	9.00E-62
SCE1572_5044	sce_4244	3.00E-18	4.00E-14
SCE1572_5045	sce_4245	4.00E-93	1.00E-84
SCE1572_5047	sce_6904	8.00E-81	7.00E-72
SCE1572_505	sce_8661	7.00E-10	1.00E-06
SCE1572_5052	sce_522	7.00E-135	2.00E-126
SCE1572_5056	sce_7667	0.00E+00	0.00E+00
SCE1572_5057	sce_7841	3.00E-169	5.00E-175
SCE1572_5058	sce_4246	0.00E+00	0.00E+00
SCE1572_5059	sce_4247	6.00E-101	1.00E-98
SCE1572_5060	sce_4248	1.00E-171	1.00E-176
SCE1572_5061	sce_4250	4.00E-55	4.00E-55
SCE1572_5062	sce_4251	2.00E-139	5.00E-151
SCE1572_5063	sce_4252	1.00E-13	2.00E-21
SCE1572_5064	sce_4253	8.00E-143	2.00E-149

SCE1572_5065	sce_4254	2.00E-167	2.00E-170
SCE1572_5066	sce_4255	9.00E-162	1.00E-164
SCE1572_5067	sce_4256	2.00E-172	2.00E-172
SCE1572_5068	sce_4257	1.00E-144	0.00E+00
SCE1572_5069	sce_4258	0.00E+00	0.00E+00
SCE1572_507	sce_1673	1.00E-57	2.00E-63
SCE1572_5070	sce_4259	2.00E-153	2.00E-144
SCE1572_5071	sce_4260	0.00E+00	0.00E+00
SCE1572_5072	sce_4261	8.00E-136	5.00E-144
SCE1572_5073	sce_4262	3.00E-128	5.00E-131
SCE1572_5074	sce_4263	1.00E-34	1.00E-34
SCE1572_5076	sce_4265	0.00E+00	0.00E+00
SCE1572_5077	sce_4266	3.00E-90	3.00E-90
SCE1572_5078	sce_4267	0.00E+00	2.00E-178
SCE1572_5079	sce_4268	2.00E-64	3.00E-64
SCE1572_508	sce_1674	0.00E+00	0.00E+00
SCE1572_5080	sce_4269	0.00E+00	0.00E+00
SCE1572_5081	sce_4270	3.00E-39	3.00E-39
SCE1572_5082	sce_4271	5.00E-119	2.00E-118
SCE1572_5083	sce_4272	7.00E-130	5.00E-131
SCE1572_5084	sce_4273	1.00E-163	8.00E-164
SCE1572_5086	sce_4274	9.00E-27	8.00E-27
SCE1572_5087	sce_4275	2.00E-86	1.00E-93
SCE1572_5088	sce_4276	7.00E-160	8.00E-170
SCE1572_5089	sce_4277	3.00E-89	2.00E-89
SCE1572_509	sce_312	6.00E-94	3.00E-95
SCE1572_5090	sce_4278	0.00E+00	2.00E-171
SCE1572_5091	sce_4279	1.00E-172	2.00E-167
SCE1572_5093	sce_4280	8.00E-43	8.00E-43
SCE1572_5094	sce_4281	0.00E+00	0.00E+00
SCE1572_5095	sce_4282	0.00E+00	0.00E+00
SCE1572_5096	sce_4283	3.00E-139	3.00E-137
SCE1572_5097	sce_4284	1.00E-110	9.00E-110
SCE1572_5098	sce_4285	4.00E-155	2.00E-169
SCE1572_5099	sce_4286	1.00E-99	2.00E-104
SCE1572_510	sce_313	1.00E-157	9.00E-155
SCE1572_5100	sce_4287	5.00E-49	2.00E-48
SCE1572_5101	sce_4288	2.00E-111	3.00E-122
SCE1572_5102	sce_4289	0.00E+00	0.00E+00
SCE1572_5103	sce_4290	0.00E+00	0.00E+00
SCE1572_5104	sce_4291	4.00E-76	8.00E-64
SCE1572_5105	sce_4292	0.00E+00	0.00E+00
SCE1572_5106	sce_4293	4.00E-28	4.00E-28
SCE1572_5107	sce_4294	2.00E-97	1.00E-97
SCE1572_5108	sce_4295	1.00E-101	7.00E-95
SCE1572_511	sce_315	0.00E+00	0.00E+00
SCE1572_5110	sce_4297	0.00E+00	0.00E+00
SCE1572_5111	sce_4298	0.00E+00	0.00E+00
SCE1572_5112	sce_4299	3.00E-178	0.00E+00
SCE1572_5113	sce_4300	1.00E-69	5.00E-63
SCE1572_5114	sce_4301	0.00E+00	0.00E+00
SCE1572_5115	sce_4303	0.00E+00	4.00E-170
SCE1572_5116	sce_4304	2.00E-131	6.00E-146
SCE1572_5117	sce_4305	6.00E-80	2.00E-88
SCE1572_5118	sce_4306	4.00E-73	1.00E-63
SCE1572_5119	sce_4307	0.00E+00	0.00E+00
SCE1572_512	sce_317	3.00E-15	2.00E-12
SCE1572_5120	sce_4308	1.00E-169	2.00E-173
SCE1572_5121	sce_4309	0.00E+00	0.00E+00
SCE1572_5122	sce_4310	1.00E-69	1.00E-60
SCE1572_5123	sce_4311	4.00E-132	6.00E-139
SCE1572_5127	sce_4314	1.00E-180	0.00E+00
SCE1572_5128	sce_4315	2.00E-164	7.00E-179
SCE1572_513	sce_318	3.00E-131	1.00E-132
SCE1572_5130	sce_4317	6.00E-54	6.00E-54
SCE1572_5131	sce_4318	2.00E-53	5.00E-49
SCE1572_5132	sce_4319	5.00E-147	4.00E-154
SCE1572_5134	sce_4320	1.00E-25	2.00E-33
SCE1572_5135	sce_4321	1.00E-160	8.00E-161
SCE1572_5136	sce_4322	3.00E-139	2.00E-134
SCE1572_5137	sce_4323	5.00E-128	4.00E-141
SCE1572_514	sce_319	9.00E-88	2.00E-96
SCE1572_5141	sce_4324	0.00E+00	0.00E+00
SCE1572_5142	sce_4325	0.00E+00	3.00E-173
SCE1572_5145	sce_1505	2.00E-121	9.00E-116
SCE1572_5146	sce_3919	2.00E-53	9.00E-40

SCE1572_5147	sce_1503	4.00E-49	1.00E-69
SCE1572_5148	sce_4330	5.00E-95	6.00E-97
SCE1572_515	sce_321	5.00E-140	4.00E-140
SCE1572_5150	sce_4331	2.00E-86	3.00E-93
SCE1572_5154	sce_4332	4.00E-82	4.00E-82
SCE1572_5157	sce_4333	0.00E+00	0.00E+00
SCE1572_5159	sce_4334	1.00E-88	1.00E-88
SCE1572_5160	sce_4335	9.00E-132	6.00E-114
SCE1572_5164	sce_7843	2.00E-40	1.00E-37
SCE1572_5170	sce_4336	0.00E+00	0.00E+00
SCE1572_5171	sce_4337	7.00E-175	0.00E+00
SCE1572_5177	sce_4338	0.00E+00	0.00E+00
SCE1572_5178	sce_4339	0.00E+00	0.00E+00
SCE1572_5180	sce_4340	0.00E+00	0.00E+00
SCE1572_5181	sce_4342	4.00E-139	6.00E-142
SCE1572_5182	sce_4343	1.00E-112	9.00E-120
SCE1572_5183	sce_4344	4.00E-94	9.00E-94
SCE1572_5184	sce_4345	1.00E-114	5.00E-103
SCE1572_5185	sce_4346	5.00E-119	1.00E-119
SCE1572_5186	sce_4347	0.00E+00	0.00E+00
SCE1572_519	sce_2023	1.00E-68	3.00E-69
SCE1572_520	sce_322	6.00E-48	1.00E-50
SCE1572_5200	sce_4359	1.00E-39	6.00E-40
SCE1572_5202	sce_4360	2.00E-168	1.00E-167
SCE1572_5203	sce_4361	7.00E-21	5.00E-23
SCE1572_5204	sce_4362	2.00E-144	2.00E-154
SCE1572_5205	sce_4363	5.00E-137	2.00E-135
SCE1572_5206	sce_4364	1.00E-88	2.00E-94
SCE1572_5207	sce_4365	3.00E-86	6.00E-90
SCE1572_5208	sce_4366	3.00E-16	5.00E-26
SCE1572_5209	sce_4367	2.00E-15	9.00E-29
SCE1572_521	sce_323	2.00E-41	3.00E-43
SCE1572_5211	sce_4368	0.00E+00	0.00E+00
SCE1572_5212	sce_9054	3.00E-106	3.00E-106
SCE1572_5213	sce_4370	3.00E-162	2.00E-154
SCE1572_5214	sce_4371	3.00E-98	4.00E-90
SCE1572_5215	sce_4372	2.00E-142	2.00E-142
SCE1572_5217	sce_4373	0.00E+00	0.00E+00
SCE1572_522	sce_325	4.00E-103	4.00E-103
SCE1572_5220	sce_4374	3.00E-168	7.00E-86
SCE1572_5221	sce_4375	3.00E-25	1.00E-25
SCE1572_5222	sce_4377	0.00E+00	0.00E+00
SCE1572_5223	sce_4378	4.00E-173	6.00E-161
SCE1572_5224	sce_4379	3.00E-110	3.00E-101
SCE1572_5225	sce_4380	3.00E-11	1.00E-17
SCE1572_5226	sce_4381	2.00E-104	7.00E-105
SCE1572_5227	sce_4382	1.00E-07	1.00E-07
SCE1572_5228	sce_4383	7.00E-129	7.00E-129
SCE1572_5229	sce_4384	7.00E-49	7.00E-49
SCE1572_523	sce_326	2.00E-141	9.00E-141
SCE1572_5230	sce_4385	0.00E+00	0.00E+00
SCE1572_5231	sce_4386	0.00E+00	0.00E+00
SCE1572_5232	sce_4387	1.00E-70	1.00E-70
SCE1572_5233	sce_4388	3.00E-41	5.00E-41
SCE1572_5234	sce_4389	6.00E-63	6.00E-63
SCE1572_5235	sce_4390	0.00E+00	0.00E+00
SCE1572_5236	sce_4391	0.00E+00	0.00E+00
SCE1572_5237	sce_4392	1.00E-172	8.00E-173
SCE1572_5238	sce_4393	0.00E+00	0.00E+00
SCE1572_5239	sce_4394	2.00E-108	3.00E-124
SCE1572_524	sce_327	3.00E-91	1.00E-100
SCE1572_5240	sce_4395	5.00E-41	7.00E-45
SCE1572_5241	sce_4396	1.00E-69	3.00E-72
SCE1572_5242	sce_4397	3.00E-47	9.00E-48
SCE1572_5243	sce_4398	4.00E-24	5.00E-24
SCE1572_5244	sce_4399	3.00E-166	4.00E-170
SCE1572_5245	sce_4400	3.00E-93	6.00E-106
SCE1572_5246	sce_4402	2.00E-82	1.00E-82
SCE1572_5247	sce_4403	1.00E-54	2.00E-53
SCE1572_5248	sce_4404	2.00E-159	2.00E-172
SCE1572_5249	sce_4405	0.00E+00	0.00E+00
SCE1572_525	sce_328	4.00E-73	4.00E-73
SCE1572_5250	sce_4406	0.00E+00	0.00E+00
SCE1572_5251	sce_4407	4.00E-164	3.00E-170
SCE1572_5252	sce_4408	3.00E-116	1.00E-117
SCE1572_5254	sce_4409	1.00E-155	1.00E-173

SCE1572_5255	sce_4410	1.00E-09	2.00E-09
SCE1572_5256	sce_4411	6.00E-28	5.00E-31
SCE1572_5257	sce_4412	1.00E-98	2.00E-97
SCE1572_5259	sce_4413	3.00E-160	7.00E-163
SCE1572_526	sce_329	2.00E-172	3.00E-174
SCE1572_5260	sce_4415	7.00E-151	1.00E-162
SCE1572_5261	sce_4416	6.00E-71	6.00E-51
SCE1572_5264	sce_4418	4.00E-101	9.00E-102
SCE1572_5266	sce_4420	4.00E-163	4.00E-160
SCE1572_5267	sce_4421	0.00E+00	0.00E+00
SCE1572_5268	sce_4422	1.00E-50	6.00E-61
SCE1572_5269	sce_4423	0.00E+00	0.00E+00
SCE1572_527	sce_330	1.00E-76	2.00E-93
SCE1572_5270	sce_4424	2.00E-30	2.00E-30
SCE1572_5273	sce_4427	6.00E-23	2.00E-29
SCE1572_5276	sce_4428	1.00E-21	1.00E-18
SCE1572_5278	sce_4431	1.00E-133	2.00E-132
SCE1572_5279	sce_4432	0.00E+00	0.00E+00
SCE1572_528	sce_331	8.00E-74	1.00E-81
SCE1572_5280	sce_4433	2.00E-123	6.00E-126
SCE1572_5283	sce_4434	5.00E-100	5.00E-104
SCE1572_5284	sce_4435	6.00E-106	4.00E-106
SCE1572_5285	sce_4436	1.00E-21	3.00E-22
SCE1572_5286	sce_4439	1.00E-177	0.00E+00
SCE1572_5287	sce_4440	5.00E-24	5.00E-27
SCE1572_5288	sce_4441	0.00E+00	0.00E+00
SCE1572_529	sce_332	1.00E-20	2.00E-28
SCE1572_5290	sce_4444	0.00E+00	0.00E+00
SCE1572_5292	sce_4448	9.00E-76	2.00E-76
SCE1572_5295	sce_4451	7.00E-99	3.00E-104
SCE1572_5296	sce_9863	2.00E-20	2.00E-17
SCE1572_5297	sce_4452	6.00E-56	5.00E-49
SCE1572_5298	sce_4454	1.00E-106	3.00E-108
SCE1572_5299	sce_4455	0.00E+00	0.00E+00
SCE1572_53	sce_9404	0.00E+00	0.00E+00
SCE1572_530	sce_333	0.00E+00	0.00E+00
SCE1572_5304	sce_4456	6.00E-62	7.00E-62
SCE1572_5306	sce_1644	8.00E-125	8.00E-125
SCE1572_5307	sce_1643	1.00E-99	1.00E-99
SCE1572_5308	sce_1642	4.00E-139	6.00E-139
SCE1572_5309	sce_1641	1.00E-131	3.00E-132
SCE1572_531	sce_334	0.00E+00	0.00E+00
SCE1572_5310	sce_1640	1.00E-70	6.00E-64
SCE1572_5311	sce_1639	4.00E-63	3.00E-63
SCE1572_5315	sce_4457	4.00E-38	8.00E-37
SCE1572_532	sce_121	2.00E-98	4.00E-93
SCE1572_5321	sce_9369	4.00E-54	4.00E-54
SCE1572_5324	sce_4460	0.00E+00	0.00E+00
SCE1572_5325	sce_4462	6.00E-65	2.00E-64
SCE1572_5327	sce_4463	0.00E+00	0.00E+00
SCE1572_533	sce_339	2.00E-33	2.00E-36
SCE1572_5331	sce_4465	9.00E-130	3.00E-132
SCE1572_5332	sce_4466	0.00E+00	0.00E+00
SCE1572_5332	sce_7643	0.00E+00	0.00E+00
SCE1572_5333	sce_4467	1.00E-122	6.00E-147
SCE1572_5334	sce_2438	1.00E-164	6.00E-168
SCE1572_5335	sce_6710	0.00E+00	0.00E+00
SCE1572_5336	sce_4472	9.00E-97	2.00E-98
SCE1572_5337	sce_3082	0.00E+00	0.00E+00
SCE1572_5339	sce_3073	6.00E-32	1.00E-37
SCE1572_5340	sce_3074	0.00E+00	0.00E+00
SCE1572_5341	sce_3075	0.00E+00	0.00E+00
SCE1572_5341	sce_9735	0.00E+00	0.00E+00
SCE1572_5342	sce_3076	8.00E-63	3.00E-52
SCE1572_5345	sce_4471	1.00E-100	1.00E-100
SCE1572_5346	sce_4473	6.00E-25	9.00E-19
SCE1572_5347	sce_4474	6.00E-93	7.00E-102
SCE1572_5348	sce_4475	6.00E-153	1.00E-152
SCE1572_535	sce_341	0.00E+00	0.00E+00
SCE1572_5352	sce_4477	0.00E+00	0.00E+00
SCE1572_5353	sce_8197	4.00E-07	5.00E-07
SCE1572_5354	sce_4479	2.00E-81	7.00E-87
SCE1572_5355	sce_4481	3.00E-101	4.00E-101
SCE1572_5359	sce_4482	1.00E-79	8.00E-48
SCE1572_536	sce_342	2.00E-107	3.00E-101
SCE1572_5361	sce_4484	3.00E-141	3.00E-141

SCE1572_5362	sce_6192	2.00E-32	3.00E-42
SCE1572_5363	sce_6193	2.00E-106	4.00E-168
SCE1572_5365	sce_6194	1.00E-100	6.00E-102
SCE1572_5368	sce_4493	1.00E-58	1.00E-39
SCE1572_5369	sce_4494	0.00E+00	0.00E+00
SCE1572_537	sce_343	0.00E+00	0.00E+00
SCE1572_5371	sce_4495	0.00E+00	0.00E+00
SCE1572_5372	sce_7583	0.00E+00	0.00E+00
SCE1572_5373	sce_7582	3.00E-73	2.00E-73
SCE1572_5374	sce_4496	0.00E+00	0.00E+00
SCE1572_5375	sce_7141	6.00E-33	1.00E-26
SCE1572_5376	sce_4498	0.00E+00	0.00E+00
SCE1572_5377	sce_4499	0.00E+00	0.00E+00
SCE1572_5379	sce_4505	6.00E-144	6.00E-144
SCE1572_538	sce_344	8.00E-170	1.00E-173
SCE1572_5380	sce_4506	6.00E-135	3.00E-122
SCE1572_5381	sce_4507	0.00E+00	1.00E-166
SCE1572_5382	sce_4508	6.00E-170	3.00E-160
SCE1572_5384	sce_2062	4.00E-35	5.00E-34
SCE1572_5385	sce_4509	0.00E+00	0.00E+00
SCE1572_5386	sce_4510	3.00E-177	6.00E-171
SCE1572_5387	sce_4511	0.00E+00	0.00E+00
SCE1572_5388	sce_4512	1.00E-166	1.00E-163
SCE1572_5389	sce_4513	0.00E+00	0.00E+00
SCE1572_5389	sce_10204	0.00E+00	0.00E+00
SCE1572_5389	sce_388	0.00E+00	0.00E+00
SCE1572_5389	sce_5835	0.00E+00	0.00E+00
SCE1572_5389	sce_7640	0.00E+00	0.00E+00
SCE1572_5389	sce_3085	0.00E+00	0.00E+00
SCE1572_5389	sce_9557	0.00E+00	0.00E+00
SCE1572_5389	sce_7109	0.00E+00	0.00E+00
SCE1572_5389	sce_6535	0.00E+00	0.00E+00
SCE1572_5389	sce_3003	0.00E+00	0.00E+00
SCE1572_5389	sce_6093	0.00E+00	0.00E+00
SCE1572_5389	sce_6095	0.00E+00	0.00E+00
SCE1572_5389	sce_9920	0.00E+00	0.00E+00
SCE1572_5389	sce_6107	0.00E+00	0.00E+00
SCE1572_5389	sce_3917	0.00E+00	0.00E+00
SCE1572_5389	sce_6092	0.00E+00	0.00E+00
SCE1572_5389	sce_7661	0.00E+00	0.00E+00
SCE1572_5389	sce_8618	0.00E+00	0.00E+00
SCE1572_539	sce_345	4.00E-56	3.00E-50
SCE1572_5391	sce_4516	2.00E-162	2.00E-162
SCE1572_5392	sce_4517	3.00E-138	3.00E-138
SCE1572_5393	sce_4518	7.00E-149	7.00E-149
SCE1572_5394	sce_4519	0.00E+00	0.00E+00
SCE1572_54	sce_9403	2.00E-39	3.00E-48
SCE1572_540	sce_346	0.00E+00	0.00E+00
SCE1572_5400	sce_4522	0.00E+00	0.00E+00
SCE1572_5401	sce_4523	8.00E-38	1.00E-30
SCE1572_5402	sce_4524	7.00E-106	9.00E-105
SCE1572_5404	sce_4537	4.00E-60	4.00E-60
SCE1572_5405	sce_4538	2.00E-128	2.00E-128
SCE1572_5406	sce_4539	5.00E-62	9.00E-61
SCE1572_5408	sce_4540	6.00E-120	4.00E-103
SCE1572_541	sce_347	6.00E-90	1.00E-86
SCE1572_5412	sce_4562	0.00E+00	1.00E-176
SCE1572_5414	sce_4564	2.00E-122	3.00E-128
SCE1572_5415	sce_4565	0.00E+00	0.00E+00
SCE1572_5416	sce_4566	2.00E-113	6.00E-107
SCE1572_5417	sce_4567	3.00E-161	2.00E-159
SCE1572_5418	sce_10011	9.00E-38	2.00E-47
SCE1572_5419	sce_9329	6.00E-76	1.00E-62
SCE1572_542	sce_348	9.00E-120	7.00E-119
SCE1572_5420	sce_4568	7.00E-131	5.00E-139
SCE1572_5421	sce_4569	3.00E-76	1.00E-79
SCE1572_5423	sce_4573	0.00E+00	0.00E+00
SCE1572_5426	sce_1600	5.00E-13	3.00E-18
SCE1572_5427	sce_3045	1.00E-58	2.00E-59
SCE1572_5429	sce_4574	0.00E+00	0.00E+00
SCE1572_543	sce_349	4.00E-120	3.00E-100
SCE1572_5430	sce_7563	0.00E+00	0.00E+00
SCE1572_5434	sce_4578	0.00E+00	0.00E+00
SCE1572_544	sce_350	3.00E-57	3.00E-57
SCE1572_545	sce_352	4.00E-144	2.00E-145
SCE1572_5451	sce_5278	0.00E+00	0.00E+00

SCE1572_5452	sce_5276	0.00E+00	0.00E+00
SCE1572_5452	sce_2161	0.00E+00	0.00E+00
SCE1572_5452	sce_225	0.00E+00	0.00E+00
SCE1572_5452	sce_8357	0.00E+00	0.00E+00
SCE1572_5452	sce_6235	0.00E+00	0.00E+00
SCE1572_5468	sce_388	0.00E+00	0.00E+00
SCE1572_5468	sce_5835	0.00E+00	0.00E+00
SCE1572_5468	sce_7640	0.00E+00	0.00E+00
SCE1572_5468	sce_10204	0.00E+00	0.00E+00
SCE1572_5468	sce_9920	0.00E+00	0.00E+00
SCE1572_5468	sce_7661	0.00E+00	0.00E+00
SCE1572_5468	sce_3085	0.00E+00	0.00E+00
SCE1572_5468	sce_9557	0.00E+00	0.00E+00
SCE1572_5468	sce_3003	0.00E+00	0.00E+00
SCE1572_5468	sce_6092	0.00E+00	0.00E+00
SCE1572_5468	sce_4513	0.00E+00	0.00E+00
SCE1572_5468	sce_6095	0.00E+00	0.00E+00
SCE1572_5468	sce_7109	0.00E+00	0.00E+00
SCE1572_5468	sce_6094	0.00E+00	0.00E+00
SCE1572_5468	sce_6535	0.00E+00	0.00E+00
SCE1572_5468	sce_2065	0.00E+00	0.00E+00
SCE1572_5468	sce_6093	0.00E+00	0.00E+00
SCE1572_5468	sce_3917	0.00E+00	0.00E+00
SCE1572_5468	sce_6107	0.00E+00	0.00E+00
SCE1572_5468	sce_1398	0.00E+00	0.00E+00
SCE1572_5468	sce_8602	0.00E+00	0.00E+00
SCE1572_547	sce_353	2.00E-107	3.00E-115
SCE1572_5470	sce_4595	2.00E-52	1.00E-53
SCE1572_5475	sce_8779	5.00E-101	2.00E-84
SCE1572_5476	sce_8781	0.00E+00	0.00E+00
SCE1572_5477	sce_8782	2.00E-128	6.00E-153
SCE1572_548	sce_355	0.00E+00	0.00E+00
SCE1572_5480	sce_7640	0.00E+00	0.00E+00
SCE1572_5480	sce_388	0.00E+00	0.00E+00
SCE1572_5480	sce_5835	0.00E+00	0.00E+00
SCE1572_5480	sce_10204	0.00E+00	0.00E+00
SCE1572_5480	sce_3085	0.00E+00	0.00E+00
SCE1572_5480	sce_4513	0.00E+00	0.00E+00
SCE1572_5480	sce_9557	0.00E+00	0.00E+00
SCE1572_5480	sce_7109	0.00E+00	0.00E+00
SCE1572_5480	sce_9920	0.00E+00	0.00E+00
SCE1572_5480	sce_6107	0.00E+00	0.00E+00
SCE1572_5480	sce_3003	0.00E+00	0.00E+00
SCE1572_5480	sce_6535	0.00E+00	0.00E+00
SCE1572_5480	sce_6092	0.00E+00	0.00E+00
SCE1572_5480	sce_6093	0.00E+00	0.00E+00
SCE1572_5480	sce_7661	0.00E+00	0.00E+00
SCE1572_5480	sce_3917	0.00E+00	0.00E+00
SCE1572_5480	sce_6095	0.00E+00	0.00E+00
SCE1572_5480	sce_6094	0.00E+00	0.00E+00
SCE1572_5480	sce_2065	0.00E+00	0.00E+00
SCE1572_5480	sce_8618	0.00E+00	0.00E+00
SCE1572_5482	sce_5502	0.00E+00	0.00E+00
SCE1572_5482	sce_2641	0.00E+00	0.00E+00
SCE1572_5483	sce_5480	7.00E-121	5.00E-109
SCE1572_5484	sce_5479	3.00E-179	0.00E+00
SCE1572_5485	sce_7637	0.00E+00	0.00E+00
SCE1572_5485	sce_389	0.00E+00	0.00E+00
SCE1572_5485	sce_2666	0.00E+00	0.00E+00
SCE1572_5485	sce_9230	0.00E+00	0.00E+00
SCE1572_5485	sce_9237	0.00E+00	0.00E+00
SCE1572_5487	sce_4598	1.00E-112	2.00E-121
SCE1572_5488	sce_4599	2.00E-111	2.00E-110
SCE1572_55	sce_8347	0.00E+00	0.00E+00
SCE1572_55	sce_4610	0.00E+00	0.00E+00
SCE1572_5504	sce_2328	1.00E-21	3.00E-10
SCE1572_551	sce_357	2.00E-68	2.00E-67
SCE1572_5510	sce_2321	1.00E-14	1.00E-15
SCE1572_5512	sce_2319	4.00E-60	8.00E-62
SCE1572_552	sce_358	0.00E+00	0.00E+00
SCE1572_5522	sce_6361	6.00E-47	9.00E-56
SCE1572_5528	sce_7463	2.00E-37	6.00E-31
SCE1572_5529	sce_3646	9.00E-179	4.00E-179
SCE1572_5533	sce_3598	0.00E+00	0.00E+00
SCE1572_5536	sce_3597	0.00E+00	0.00E+00
SCE1572_5537	sce_3596	0.00E+00	0.00E+00

SCE1572_5538	sce_3595	0.00E+00	0.00E+00
SCE1572_5539	sce_3594	0.00E+00	0.00E+00
SCE1572_5540	sce_3593	4.00E-121	2.00E-128
SCE1572_5541	sce_3592	5.00E-89	5.00E-89
SCE1572_5542	sce_3590	0.00E+00	0.00E+00
SCE1572_5543	sce_3589	5.00E-38	5.00E-38
SCE1572_5544	sce_3588	9.00E-179	5.00E-179
SCE1572_556	sce_359	5.00E-93	7.00E-101
SCE1572_557	sce_360	0.00E+00	0.00E+00
SCE1572_5570	sce_7637	0.00E+00	0.00E+00
SCE1572_5570	sce_9230	0.00E+00	0.00E+00
SCE1572_5570	sce_389	0.00E+00	0.00E+00
SCE1572_5570	sce_2666	0.00E+00	0.00E+00
SCE1572_5570	sce_9237	0.00E+00	0.00E+00
SCE1572_5570	sce_9231	0.00E+00	0.00E+00
SCE1572_5571	sce_9230	0.00E+00	0.00E+00
SCE1572_5571	sce_7637	0.00E+00	0.00E+00
SCE1572_5571	sce_389	0.00E+00	0.00E+00
SCE1572_5571	sce_2666	0.00E+00	0.00E+00
SCE1572_5571	sce_9237	0.00E+00	0.00E+00
SCE1572_5571	sce_9231	0.00E+00	0.00E+00
SCE1572_5572	sce_9230	0.00E+00	0.00E+00
SCE1572_5572	sce_389	0.00E+00	0.00E+00
SCE1572_5572	sce_2666	0.00E+00	0.00E+00
SCE1572_5572	sce_7637	0.00E+00	0.00E+00
SCE1572_5572	sce_9237	0.00E+00	0.00E+00
SCE1572_5572	sce_9231	0.00E+00	0.00E+00
SCE1572_5579	sce_4645	0.00E+00	0.00E+00
SCE1572_558	sce_361	1.00E-106	2.00E-103
SCE1572_5580	sce_4646	1.00E-159	6.00E-165
SCE1572_5581	sce_4647	3.00E-144	1.00E-139
SCE1572_5582	sce_1162	3.00E-98	4.00E-104
SCE1572_5583	sce_1161	3.00E-133	4.00E-140
SCE1572_5584	sce_1160	1.00E-149	4.00E-160
SCE1572_5585	sce_4648	3.00E-111	2.00E-102
SCE1572_5587	sce_4650	1.00E-91	3.00E-95
SCE1572_559	sce_362	1.00E-52	1.00E-52
SCE1572_5592	sce_4656	0.00E+00	0.00E+00
SCE1572_5594	sce_4657	6.00E-142	7.00E-142
SCE1572_5596	sce_4658	0.00E+00	0.00E+00
SCE1572_5597	sce_4660	0.00E+00	0.00E+00
SCE1572_5598	sce_4661	2.00E-160	3.00E-171
SCE1572_5599	sce_5147	0.00E+00	0.00E+00
SCE1572_5599	sce_4662	0.00E+00	0.00E+00
SCE1572_560	sce_363	6.00E-176	6.00E-176
SCE1572_5600	sce_4663	0.00E+00	0.00E+00
SCE1572_5600	sce_5148	0.00E+00	0.00E+00
SCE1572_5601	sce_4665	0.00E+00	0.00E+00
SCE1572_5602	sce_4671	0.00E+00	0.00E+00
SCE1572_5606	sce_4684	4.00E-139	1.00E-147
SCE1572_5607	sce_6014	0.00E+00	0.00E+00
SCE1572_5608	sce_4685	6.00E-69	8.00E-63
SCE1572_5609	sce_4686	0.00E+00	0.00E+00
SCE1572_561	sce_364	1.00E-142	1.00E-143
SCE1572_5612	sce_5882	9.00E-60	6.00E-60
SCE1572_5614	sce_4701	2.00E-79	7.00E-78
SCE1572_5617	sce_4702	0.00E+00	1.00E-176
SCE1572_5619	sce_4704	1.00E-87	5.00E-90
SCE1572_562	sce_365	6.00E-130	9.00E-122
SCE1572_5622	sce_4705	0.00E+00	0.00E+00
SCE1572_5623	sce_4706	0.00E+00	0.00E+00
SCE1572_5625	sce_4707	2.00E-34	3.00E-27
SCE1572_563	sce_366	3.00E-96	1.00E-85
SCE1572_5630	sce_7538	0.00E+00	0.00E+00
SCE1572_5635	sce_8649	0.00E+00	0.00E+00
SCE1572_5635	sce_6571	0.00E+00	0.00E+00
SCE1572_5636	sce_8648	1.00E-141	1.00E-141
SCE1572_5637	sce_4709	0.00E+00	0.00E+00
SCE1572_5639	sce_4710	1.00E-92	5.00E-104
SCE1572_5640	sce_7661	0.00E+00	0.00E+00
SCE1572_5640	sce_8602	0.00E+00	0.00E+00
SCE1572_5640	sce_3917	0.00E+00	0.00E+00
SCE1572_5640	sce_6107	0.00E+00	0.00E+00
SCE1572_5640	sce_6092	0.00E+00	0.00E+00
SCE1572_5640	sce_6093	0.00E+00	0.00E+00
SCE1572_5640	sce_6094	0.00E+00	0.00E+00

SCE1572_5640	sce_6095	0.00E+00	0.00E+00
SCE1572_5640	sce_6535	0.00E+00	0.00E+00
SCE1572_5640	sce_388	0.00E+00	0.00E+00
SCE1572_5640	sce_10204	0.00E+00	0.00E+00
SCE1572_5640	sce_9920	0.00E+00	0.00E+00
SCE1572_5640	sce_3003	0.00E+00	0.00E+00
SCE1572_5640	sce_9557	0.00E+00	0.00E+00
SCE1572_5640	sce_5835	0.00E+00	0.00E+00
SCE1572_5640	sce_7640	0.00E+00	0.00E+00
SCE1572_5640	sce_2065	0.00E+00	0.00E+00
SCE1572_5640	sce_8618	0.00E+00	0.00E+00
SCE1572_5640	sce_4513	0.00E+00	0.00E+00
SCE1572_5640	sce_3085	0.00E+00	0.00E+00
SCE1572_5640	sce_7109	0.00E+00	0.00E+00
SCE1572_5649	sce_4711	0.00E+00	0.00E+00
SCE1572_5649	sce_3376	0.00E+00	0.00E+00
SCE1572_565	sce_368	7.00E-73	7.00E-73
SCE1572_5652	sce_9774	3.00E-134	8.00E-150
SCE1572_5654	sce_9776	0.00E+00	0.00E+00
SCE1572_5654	sce_5358	0.00E+00	0.00E+00
SCE1572_5655	sce_9777	0.00E+00	0.00E+00
SCE1572_5655	sce_5359	0.00E+00	0.00E+00
SCE1572_5656	sce_1130	5.00E-22	5.00E-55
SCE1572_5658	sce_4713	0.00E+00	0.00E+00
SCE1572_5659	sce_9663	0.00E+00	0.00E+00
SCE1572_5663	sce_4714	0.00E+00	0.00E+00
SCE1572_5664	sce_4715	2.00E-166	1.00E-155
SCE1572_5665	sce_4716	2.00E-62	2.00E-67
SCE1572_5666	sce_4717	5.00E-122	3.00E-130
SCE1572_5668	sce_4718	9.00E-29	9.00E-28
SCE1572_5669	sce_4719	4.00E-134	3.00E-139
SCE1572_567	sce_370	0.00E+00	0.00E+00
SCE1572_567	sce_41	0.00E+00	0.00E+00
SCE1572_5670	sce_4720	3.00E-176	5.00E-164
SCE1572_5671	sce_4721	1.00E-130	1.00E-130
SCE1572_5673	sce_4722	1.00E-103	7.00E-111
SCE1572_5675	sce_4727	1.00E-170	1.00E-152
SCE1572_5676	sce_4728	8.00E-45	1.00E-37
SCE1572_5677	sce_4729	5.00E-129	1.00E-125
SCE1572_5678	sce_4730	0.00E+00	4.00E-175
SCE1572_5679	sce_4731	0.00E+00	0.00E+00
SCE1572_568	sce_371	5.00E-48	3.00E-48
SCE1572_5680	sce_4732	0.00E+00	0.00E+00
SCE1572_5681	sce_4733	8.00E-30	9.00E-30
SCE1572_5682	sce_4734	8.00E-66	1.00E-62
SCE1572_5683	sce_4735	0.00E+00	0.00E+00
SCE1572_5684	sce_4736	1.00E-89	1.00E-89
SCE1572_5685	sce_4738	3.00E-66	3.00E-60
SCE1572_5686	sce_4739	1.00E-48	1.00E-48
SCE1572_5688	sce_4740	7.00E-99	7.00E-99
SCE1572_5689	sce_4741	1.00E-119	1.00E-119
SCE1572_569	sce_372	6.00E-20	5.00E-22
SCE1572_5690	sce_4742	8.00E-70	3.00E-77
SCE1572_5691	sce_4743	7.00E-149	3.00E-163
SCE1572_5692	sce_4744	0.00E+00	0.00E+00
SCE1572_5693	sce_4745	4.00E-96	7.00E-89
SCE1572_5694	sce_4746	0.00E+00	2.00E-173
SCE1572_5695	sce_9269	1.00E-46	1.00E-46
SCE1572_5697	sce_4750	0.00E+00	0.00E+00
SCE1572_5699	sce_4751	1.00E-92	5.00E-92
SCE1572_57	sce_6254	6.00E-92	5.00E-89
SCE1572_570	sce_804	2.00E-138	2.00E-141
SCE1572_5700	sce_4752	2.00E-64	2.00E-60
SCE1572_5701	sce_4753	3.00E-37	7.00E-44
SCE1572_5702	sce_4754	0.00E+00	0.00E+00
SCE1572_5703	sce_4755	0.00E+00	0.00E+00
SCE1572_5704	sce_4756	7.00E-146	7.00E-146
SCE1572_5705	sce_4757	9.00E-72	4.00E-58
SCE1572_5706	sce_4758	2.00E-97	2.00E-94
SCE1572_5707	sce_4759	6.00E-102	2.00E-102
SCE1572_5708	sce_4761	0.00E+00	0.00E+00
SCE1572_5709	sce_4762	0.00E+00	0.00E+00
SCE1572_5710	sce_4763	3.00E-11	1.00E-15
SCE1572_5711	sce_4764	0.00E+00	0.00E+00
SCE1572_5712	sce_4765	2.00E-55	2.00E-55
SCE1572_5713	sce_4766	4.00E-56	2.00E-56

SCE1572_5714	sce_4767	1.00E-104	4.00E-110
SCE1572_5715	sce_4768	1.00E-48	8.00E-49
SCE1572_5716	sce_4769	0.00E+00	0.00E+00
SCE1572_5716	sce_1353	0.00E+00	0.00E+00
SCE1572_5717	sce_4770	1.00E-48	1.00E-47
SCE1572_5718	sce_4771	4.00E-160	7.00E-160
SCE1572_5719	sce_4772	2.00E-115	2.00E-115
SCE1572_5720	sce_4773	2.00E-159	3.00E-159
SCE1572_5721	sce_4774	3.00E-166	3.00E-164
SCE1572_5722	sce_4775	8.00E-127	2.00E-129
SCE1572_5726	sce_4776	0.00E+00	0.00E+00
SCE1572_5727	sce_4778	0.00E+00	0.00E+00
SCE1572_5728	sce_4779	8.00E-106	4.00E-103
SCE1572_5729	sce_4780	1.00E-46	1.00E-50
SCE1572_573	sce_375	0.00E+00	0.00E+00
SCE1572_5731	sce_4781	6.00E-38	5.00E-46
SCE1572_5732	sce_4782	7.00E-94	2.00E-104
SCE1572_5733	sce_4783	8.00E-167	2.00E-169
SCE1572_5734	sce_4784	0.00E+00	0.00E+00
SCE1572_5735	sce_4785	0.00E+00	0.00E+00
SCE1572_5736	sce_4786	8.00E-48	2.00E-54
SCE1572_5737	sce_4788	1.00E-58	4.00E-54
SCE1572_5738	sce_4789	6.00E-45	2.00E-45
SCE1572_5739	sce_4790	2.00E-69	2.00E-70
SCE1572_574	sce_376	9.00E-108	1.00E-115
SCE1572_5740	sce_4791	4.00E-87	4.00E-87
SCE1572_5741	sce_4792	4.00E-137	6.00E-135
SCE1572_5742	sce_4793	2.00E-129	1.00E-116
SCE1572_5744	sce_4794	0.00E+00	0.00E+00
SCE1572_5745	sce_4795	2.00E-52	2.00E-52
SCE1572_5746	sce_4796	0.00E+00	0.00E+00
SCE1572_5747	sce_4797	1.00E-65	6.00E-91
SCE1572_5748	sce_4798	2.00E-165	3.00E-165
SCE1572_5749	sce_4799	0.00E+00	0.00E+00
SCE1572_575	sce_377	5.00E-22	5.00E-22
SCE1572_5750	sce_4800	2.00E-61	3.00E-72
SCE1572_5751	sce_4801	0.00E+00	0.00E+00
SCE1572_5752	sce_4803	1.00E-124	2.00E-112
SCE1572_5754	sce_4805	7.00E-121	4.00E-121
SCE1572_5755	sce_4806	0.00E+00	0.00E+00
SCE1572_5759	sce_4807	5.00E-147	6.00E-169
SCE1572_576	sce_381	0.00E+00	0.00E+00
SCE1572_5760	sce_4808	8.00E-134	7.00E-122
SCE1572_5761	sce_4809	2.00E-155	2.00E-154
SCE1572_5762	sce_4810	5.00E-125	2.00E-114
SCE1572_5764	sce_4811	8.00E-147	3.00E-146
SCE1572_5765	sce_4812	0.00E+00	0.00E+00
SCE1572_5766	sce_4813	0.00E+00	0.00E+00
SCE1572_5767	sce_4814	0.00E+00	0.00E+00
SCE1572_5768	sce_4815	0.00E+00	0.00E+00
SCE1572_5769	sce_4816	4.00E-177	4.00E-177
SCE1572_5770	sce_4817	0.00E+00	0.00E+00
SCE1572_5770	sce_9407	0.00E+00	0.00E+00
SCE1572_5770	sce_8451	0.00E+00	0.00E+00
SCE1572_5770	sce_3765	0.00E+00	0.00E+00
SCE1572_5772	sce_4818	0.00E+00	0.00E+00
SCE1572_5774	sce_4820	3.00E-13	1.00E-15
SCE1572_5775	sce_4821	0.00E+00	0.00E+00
SCE1572_5776	sce_4822	0.00E+00	0.00E+00
SCE1572_5777	sce_4823	9.00E-56	1.00E-55
SCE1572_5778	sce_4824	2.00E-108	2.00E-108
SCE1572_5779	sce_4825	5.00E-100	8.00E-135
SCE1572_5780	sce_4826	5.00E-117	1.00E-117
SCE1572_5781	sce_4827	0.00E+00	0.00E+00
SCE1572_5782	sce_4828	2.00E-30	6.00E-31
SCE1572_5783	sce_4830	4.00E-141	2.00E-160
SCE1572_5784	sce_4831	3.00E-73	1.00E-100
SCE1572_5785	sce_4832	1.00E-68	1.00E-70
SCE1572_5786	sce_4833	3.00E-47	8.00E-48
SCE1572_5787	sce_4834	5.00E-86	5.00E-86
SCE1572_5788	sce_4835	6.00E-98	3.00E-104
SCE1572_5789	sce_4836	0.00E+00	0.00E+00
SCE1572_579	sce_384	2.00E-57	1.00E-58
SCE1572_5790	sce_4837	1.00E-176	1.00E-176
SCE1572_5791	sce_4838	0.00E+00	0.00E+00
SCE1572_5792	sce_4839	7.00E-52	4.00E-54

SCE1572_5793	sce_4840	3.00E-108	9.00E-122
SCE1572_5794	sce_4841	1.00E-119	2.00E-121
SCE1572_5795	sce_4842	9.00E-80	1.00E-78
SCE1572_5796	sce_4843	2.00E-104	3.00E-110
SCE1572_5797	sce_4844	2.00E-146	3.00E-158
SCE1572_5798	sce_4846	6.00E-107	4.00E-103
SCE1572_5799	sce_4847	5.00E-137	2.00E-136
SCE1572_58	sce_6262	3.00E-124	9.00E-129
SCE1572_580	sce_385	1.00E-116	1.00E-125
SCE1572_5800	sce_4848	7.00E-180	0.00E+00
SCE1572_5801	sce_4849	8.00E-109	5.00E-120
SCE1572_5802	sce_4850	2.00E-124	3.00E-126
SCE1572_5803	sce_4851	2.00E-88	6.00E-84
SCE1572_5804	sce_4852	2.00E-41	2.00E-42
SCE1572_5806	sce_4854	2.00E-31	2.00E-31
SCE1572_5807	sce_4855	2.00E-73	2.00E-80
SCE1572_5808	sce_4856	4.00E-163	2.00E-163
SCE1572_5809	sce_4857	0.00E+00	0.00E+00
SCE1572_581	sce_386	3.00E-159	6.00E-174
SCE1572_5810	sce_4858	3.00E-64	3.00E-73
SCE1572_5811	sce_4859	0.00E+00	0.00E+00
SCE1572_5812	sce_4861	0.00E+00	0.00E+00
SCE1572_5812	sce_4106	0.00E+00	0.00E+00
SCE1572_5813	sce_4862	2.00E-170	4.00E-167
SCE1572_5814	sce_4863	3.00E-111	0.00E+00
SCE1572_5815	sce_4864	0.00E+00	0.00E+00
SCE1572_5816	sce_4865	2.00E-176	3.00E-169
SCE1572_5818	sce_9910	7.00E-118	6.00E-106
SCE1572_582	sce_392	0.00E+00	2.00E-180
SCE1572_5820	sce_10365	0.00E+00	0.00E+00
SCE1572_5820	sce_9503	0.00E+00	0.00E+00
SCE1572_5820	sce_9908	0.00E+00	0.00E+00
SCE1572_5823	sce_4866	2.00E-58	1.00E-58
SCE1572_5825	sce_4867	0.00E+00	0.00E+00
SCE1572_5826	sce_4868	3.00E-133	6.00E-142
SCE1572_5827	sce_4869	0.00E+00	2.00E-171
SCE1572_5828	sce_4870	4.00E-150	1.00E-156
SCE1572_583	sce_393	1.00E-104	2.00E-120
SCE1572_5831	sce_4872	8.00E-99	1.00E-76
SCE1572_5832	sce_4873	1.00E-147	6.00E-163
SCE1572_5833	sce_4874	0.00E+00	0.00E+00
SCE1572_5834	sce_4875	2.00E-45	2.00E-45
SCE1572_5835	sce_4876	1.00E-135	2.00E-135
SCE1572_5837	sce_4878	0.00E+00	0.00E+00
SCE1572_5838	sce_4879	1.00E-94	4.00E-88
SCE1572_584	sce_394	1.00E-168	6.00E-161
SCE1572_585	sce_395	0.00E+00	0.00E+00
SCE1572_5850	sce_160	2.00E-112	5.00E-108
SCE1572_5853	sce_2040	4.00E-08	1.00E-07
SCE1572_5854	sce_7025	3.00E-15	2.00E-26
SCE1572_5855	sce_3173	4.00E-59	4.00E-59
SCE1572_586	sce_396	0.00E+00	0.00E+00
SCE1572_5868	sce_4880	1.00E-112	2.00E-102
SCE1572_5869	sce_4881	7.00E-102	4.00E-102
SCE1572_587	sce_398	8.00E-180	0.00E+00
SCE1572_5870	sce_4882	1.00E-62	2.00E-63
SCE1572_5871	sce_4883	0.00E+00	0.00E+00
SCE1572_5872	sce_4885	0.00E+00	0.00E+00
SCE1572_5873	sce_4887	0.00E+00	0.00E+00
SCE1572_5874	sce_4888	5.00E-51	5.00E-51
SCE1572_5875	sce_4889	3.00E-41	1.00E-43
SCE1572_5876	sce_4890	7.00E-138	6.00E-143
SCE1572_5879	sce_4891	4.00E-68	7.00E-75
SCE1572_588	sce_399	2.00E-75	6.00E-83
SCE1572_5883	sce_7152	8.00E-69	7.00E-69
SCE1572_5884	sce_7151	0.00E+00	0.00E+00
SCE1572_5886	sce_7494	1.00E-83	7.00E-71
SCE1572_5887	sce_4892	4.00E-130	4.00E-133
SCE1572_5889	sce_4893	6.00E-15	4.00E-15
SCE1572_5890	sce_4895	3.00E-176	5.00E-177
SCE1572_5893	sce_4896	2.00E-150	1.00E-152
SCE1572_5894	sce_7535	9.00E-52	1.00E-47
SCE1572_5895	sce_7536	0.00E+00	0.00E+00
SCE1572_5896	sce_7537	0.00E+00	0.00E+00
SCE1572_5898	sce_4908	2.00E-28	1.00E-34
SCE1572_5899	sce_2489	4.00E-89	8.00E-87

SCE1572_59	sce_6258	3.00E-74	1.00E-90
SCE1572_5900	sce_2490	2.00E-98	2.00E-105
SCE1572_5906	sce_4909	0.00E+00	0.00E+00
SCE1572_5907	sce_4911	6.00E-58	6.00E-58
SCE1572_5908	sce_4912	0.00E+00	0.00E+00
SCE1572_5909	sce_4913	9.00E-70	9.00E-70
SCE1572_591	sce_400	5.00E-158	8.00E-146
SCE1572_5910	sce_4914	2.00E-121	4.00E-106
SCE1572_5911	sce_4915	0.00E+00	0.00E+00
SCE1572_5912	sce_4916	2.00E-71	5.00E-73
SCE1572_5913	sce_4917	2.00E-136	8.00E-141
SCE1572_5914	sce_4918	3.00E-130	5.00E-140
SCE1572_5915	sce_4919	0.00E+00	0.00E+00
SCE1572_5916	sce_4920	6.00E-68	1.00E-66
SCE1572_5917	sce_4921	0.00E+00	5.00E-173
SCE1572_5919	sce_4923	1.00E-178	1.00E-178
SCE1572_592	sce_401	4.00E-105	2.00E-112
SCE1572_5920	sce_4924	0.00E+00	0.00E+00
SCE1572_5922	sce_4925	3.00E-133	9.00E-155
SCE1572_5923	sce_4926	0.00E+00	0.00E+00
SCE1572_5924	sce_4927	4.00E-39	2.00E-58
SCE1572_5925	sce_4928	0.00E+00	0.00E+00
SCE1572_5926	sce_4929	0.00E+00	0.00E+00
SCE1572_5927	sce_4930	0.00E+00	0.00E+00
SCE1572_5928	sce_6137	9.00E-85	1.00E-84
SCE1572_5929	sce_6138	4.00E-63	7.00E-55
SCE1572_593	sce_402	0.00E+00	0.00E+00
SCE1572_5931	sce_4931	0.00E+00	0.00E+00
SCE1572_5932	sce_4932	0.00E+00	0.00E+00
SCE1572_5940	sce_2546	1.00E-08	7.00E-07
SCE1572_595	sce_404	2.00E-137	1.00E-138
SCE1572_596	sce_405	0.00E+00	0.00E+00
SCE1572_5973	sce_4934	9.00E-142	9.00E-133
SCE1572_5975	sce_4935	2.00E-132	2.00E-139
SCE1572_5976	sce_4936	2.00E-122	9.00E-141
SCE1572_5977	sce_4937	2.00E-113	1.00E-110
SCE1572_5978	sce_4938	0.00E+00	0.00E+00
SCE1572_5979	sce_4939	1.00E-116	1.00E-116
SCE1572_598	sce_406	6.00E-75	4.00E-83
SCE1572_5980	sce_4941	4.00E-169	3.00E-170
SCE1572_5981	sce_4942	2.00E-43	4.00E-43
SCE1572_5983	sce_2441	1.00E-06	2.00E-07
SCE1572_5990	sce_9404	0.00E+00	0.00E+00
SCE1572_5991	sce_4943	2.00E-151	2.00E-154
SCE1572_5992	sce_4944	1.00E-137	4.00E-149
SCE1572_5993	sce_4945	2.00E-101	3.00E-92
SCE1572_5994	sce_4946	0.00E+00	0.00E+00
SCE1572_5995	sce_4947	9.00E-155	9.00E-148
SCE1572_5996	sce_4948	7.00E-75	4.00E-74
SCE1572_5997	sce_4949	6.00E-137	3.00E-152
SCE1572_5998	sce_4950	5.00E-153	7.00E-162
SCE1572_5999	sce_4951	1.00E-154	1.00E-154
SCE1572_6	sce_6	0.00E+00	0.00E+00
SCE1572_60	sce_50	0.00E+00	0.00E+00
SCE1572_6000	sce_4952	3.00E-103	4.00E-117
SCE1572_6001	sce_4953	9.00E-37	2.00E-37
SCE1572_6002	sce_4954	8.00E-77	3.00E-79
SCE1572_6003	sce_4955	4.00E-124	2.00E-104
SCE1572_6004	sce_4956	2.00E-135	7.00E-136
SCE1572_6005	sce_4957	9.00E-160	5.00E-166
SCE1572_6007	sce_4958	2.00E-107	2.00E-109
SCE1572_6008	sce_4959	9.00E-83	2.00E-74
SCE1572_6009	sce_4960	8.00E-32	8.00E-32
SCE1572_601	sce_407	0.00E+00	0.00E+00
SCE1572_6010	sce_4961	3.00E-40	3.00E-40
SCE1572_6011	sce_4963	0.00E+00	0.00E+00
SCE1572_6012	sce_4964	5.00E-151	5.00E-170
SCE1572_6013	sce_4965	0.00E+00	0.00E+00
SCE1572_6014	sce_4966	1.00E-126	4.00E-120
SCE1572_6016	sce_4969	2.00E-90	2.00E-90
SCE1572_6017	sce_4970	0.00E+00	0.00E+00
SCE1572_6018	sce_4971	0.00E+00	0.00E+00
SCE1572_6019	sce_4972	1.00E-29	5.00E-29
SCE1572_602	sce_410	0.00E+00	0.00E+00
SCE1572_6020	sce_4973	3.00E-125	4.00E-125
SCE1572_6021	sce_4974	0.00E+00	0.00E+00

SCE1572_6023	sce_4976	0.00E+00	0.00E+00
SCE1572_6024	sce_4977	0.00E+00	0.00E+00
SCE1572_6025	sce_4978	1.00E-39	8.00E-57
SCE1572_6026	sce_4979	3.00E-121	4.00E-120
SCE1572_6027	sce_4980	2.00E-42	6.00E-51
SCE1572_6028	sce_4981	3.00E-73	2.00E-70
SCE1572_6029	sce_4982	0.00E+00	0.00E+00
SCE1572_603	sce_411	2.00E-117	5.00E-114
SCE1572_6030	sce_4983	1.00E-144	1.00E-136
SCE1572_6031	sce_4984	0.00E+00	0.00E+00
SCE1572_6032	sce_4985	3.00E-23	3.00E-23
SCE1572_6033	sce_4986	0.00E+00	0.00E+00
SCE1572_6034	sce_4987	0.00E+00	0.00E+00
SCE1572_6036	sce_4988	1.00E-14	9.00E-11
SCE1572_6037	sce_4989	9.00E-22	5.00E-14
SCE1572_6038	sce_4990	3.00E-146	4.00E-162
SCE1572_6039	sce_4991	8.00E-150	9.00E-161
SCE1572_604	sce_413	0.00E+00	0.00E+00
SCE1572_6040	sce_4992	0.00E+00	0.00E+00
SCE1572_6041	sce_4993	0.00E+00	0.00E+00
SCE1572_6042	sce_4994	4.00E-118	7.00E-117
SCE1572_6044	sce_4995	1.00E-42	2.00E-35
SCE1572_6045	sce_4996	2.00E-177	2.00E-178
SCE1572_6046	sce_4997	0.00E+00	0.00E+00
SCE1572_6047	sce_4999	3.00E-38	3.00E-39
SCE1572_6048	sce_5000	1.00E-109	5.00E-89
SCE1572_6049	sce_5001	1.00E-82	3.00E-70
SCE1572_605	sce_414	1.00E-69	8.00E-70
SCE1572_6051	sce_5002	2.00E-173	5.00E-174
SCE1572_6052	sce_5003	0.00E+00	0.00E+00
SCE1572_6053	sce_5004	2.00E-136	2.00E-144
SCE1572_6054	sce_5005	0.00E+00	0.00E+00
SCE1572_6055	sce_5006	0.00E+00	0.00E+00
SCE1572_6056	sce_5007	0.00E+00	0.00E+00
SCE1572_6057	sce_5008	2.00E-33	2.00E-25
SCE1572_6058	sce_5009	8.00E-106	5.00E-128
SCE1572_6059	sce_4871	3.00E-81	1.00E-89
SCE1572_606	sce_415	0.00E+00	0.00E+00
SCE1572_6061	sce_5011	4.00E-94	1.00E-92
SCE1572_6062	sce_5012	0.00E+00	0.00E+00
SCE1572_6064	sce_5013	2.00E-84	3.00E-91
SCE1572_6065	sce_5014	8.00E-17	4.00E-14
SCE1572_6066	sce_5015	4.00E-86	4.00E-70
SCE1572_6067	sce_5016	0.00E+00	0.00E+00
SCE1572_6068	sce_5017	5.00E-169	8.00E-174
SCE1572_6069	sce_5018	7.00E-81	1.00E-82
SCE1572_607	sce_416	1.00E-20	1.00E-20
SCE1572_6070	sce_5019	1.00E-61	7.00E-73
SCE1572_6074	sce_5020	0.00E+00	0.00E+00
SCE1572_6075	sce_5022	0.00E+00	0.00E+00
SCE1572_6076	sce_5023	7.00E-15	7.00E-15
SCE1572_6077	sce_5024	8.00E-35	8.00E-35
SCE1572_608	sce_418	0.00E+00	0.00E+00
SCE1572_6082	sce_244	6.00E-53	5.00E-52
SCE1572_6083	sce_3006	2.00E-126	3.00E-144
SCE1572_6086	sce_1876	7.00E-13	8.00E-13
SCE1572_6087	sce_5033	0.00E+00	0.00E+00
SCE1572_6087	sce_5602	0.00E+00	0.00E+00
SCE1572_6087	sce_3185	0.00E+00	0.00E+00
SCE1572_6088	sce_5035	3.00E-127	2.00E-118
SCE1572_6089	sce_5036	3.00E-39	8.00E-39
SCE1572_6090	sce_5037	2.00E-71	1.00E-66
SCE1572_6091	sce_5039	1.00E-32	1.00E-16
SCE1572_6094	sce_835	2.00E-128	7.00E-126
SCE1572_6096	sce_9920	0.00E+00	0.00E+00
SCE1572_6096	sce_7640	0.00E+00	0.00E+00
SCE1572_6097	sce_5042	1.00E-86	5.00E-77
SCE1572_6098	sce_5043	8.00E-140	5.00E-146
SCE1572_6099	sce_5045	1.00E-175	6.00E-174
SCE1572_61	sce_51	0.00E+00	0.00E+00
SCE1572_6100	sce_5047	0.00E+00	0.00E+00
SCE1572_6100	sce_8489	0.00E+00	0.00E+00
SCE1572_6101	sce_5048	0.00E+00	0.00E+00
SCE1572_6102	sce_5049	3.00E-83	3.00E-83
SCE1572_6103	sce_5050	9.00E-86	3.00E-83
SCE1572_6104	sce_5051	7.00E-153	6.00E-161

SCE1572_6105	sce_5052	1.00E-42	6.00E-43
SCE1572_6106	sce_5053	2.00E-101	1.00E-93
SCE1572_6107	sce_5054	7.00E-169	3.00E-159
SCE1572_6108	sce_5055	0.00E+00	0.00E+00
SCE1572_6109	sce_5056	3.00E-82	5.00E-81
SCE1572_611	sce_420	6.00E-99	1.00E-107
SCE1572_6110	sce_5057	3.00E-23	2.00E-22
SCE1572_6111	sce_5058	6.00E-94	6.00E-99
SCE1572_6112	sce_5059	4.00E-42	3.00E-63
SCE1572_6113	sce_5060	8.00E-107	2.00E-111
SCE1572_6114	sce_6885	1.00E-30	1.00E-28
SCE1572_6116	sce_2459	2.00E-97	6.00E-96
SCE1572_6118	sce_6665	7.00E-08	7.00E-08
SCE1572_6119	sce_5062	2.00E-112	2.00E-112
SCE1572_612	sce_421	1.00E-94	9.00E-95
SCE1572_6120	sce_5063	1.00E-81	2.00E-77
SCE1572_6121	sce_5064	2.00E-91	2.00E-130
SCE1572_6122	sce_5066	0.00E+00	0.00E+00
SCE1572_6123	sce_5068	0.00E+00	0.00E+00
SCE1572_6123	sce_5637	0.00E+00	0.00E+00
SCE1572_6124	sce_5069	3.00E-84	3.00E-84
SCE1572_6125	sce_5070	4.00E-133	4.00E-120
SCE1572_6126	sce_5071	1.00E-121	2.00E-118
SCE1572_6127	sce_5072	2.00E-172	0.00E+00
SCE1572_6128	sce_5073	0.00E+00	0.00E+00
SCE1572_6129	sce_5074	0.00E+00	0.00E+00
SCE1572_613	sce_422	4.00E-112	2.00E-103
SCE1572_6131	sce_5076	8.00E-44	8.00E-44
SCE1572_6133	sce_5077	0.00E+00	0.00E+00
SCE1572_6134	sce_5078	4.00E-42	2.00E-41
SCE1572_6135	sce_5079	0.00E+00	0.00E+00
SCE1572_6136	sce_5080	0.00E+00	0.00E+00
SCE1572_6137	sce_5081	2.00E-71	3.00E-72
SCE1572_6138	sce_7381	1.00E-120	1.00E-120
SCE1572_6139	sce_5082	0.00E+00	0.00E+00
SCE1572_614	sce_423	5.00E-78	8.00E-79
SCE1572_6140	sce_5083	0.00E+00	0.00E+00
SCE1572_6142	sce_5084	1.00E-120	9.00E-129
SCE1572_6145	sce_5088	7.00E-103	2.00E-116
SCE1572_6146	sce_1290	1.00E-37	3.00E-30
SCE1572_6151	sce_5091	0.00E+00	0.00E+00
SCE1572_6154	sce_5638	3.00E-69	4.00E-69
SCE1572_6155	sce_5094	2.00E-135	1.00E-136
SCE1572_6156	sce_5123	1.00E-75	2.00E-83
SCE1572_6158	sce_5128	8.00E-149	3.00E-137
SCE1572_6159	sce_5129	1.00E-169	2.00E-126
SCE1572_616	sce_424	0.00E+00	0.00E+00
SCE1572_6161	sce_5130	0.00E+00	0.00E+00
SCE1572_6162	sce_5131	0.00E+00	0.00E+00
SCE1572_6164	sce_5160	3.00E-100	2.00E-122
SCE1572_6165	sce_5161	0.00E+00	0.00E+00
SCE1572_6166	sce_5162	0.00E+00	3.00E-177
SCE1572_6167	sce_5163	1.00E-46	4.00E-51
SCE1572_6168	sce_5164	2.00E-161	3.00E-175
SCE1572_617	sce_425	8.00E-100	8.00E-100
SCE1572_6170	sce_5165	2.00E-76	2.00E-76
SCE1572_6171	sce_5166	0.00E+00	0.00E+00
SCE1572_6173	sce_335	4.00E-71	2.00E-64
SCE1572_6174	sce_336	7.00E-109	6.00E-115
SCE1572_6175	sce_5250	1.00E-138	8.00E-139
SCE1572_6176	sce_5171	2.00E-115	4.00E-124
SCE1572_6178	sce_5176	3.00E-102	7.00E-96
SCE1572_6179	sce_5177	5.00E-83	3.00E-101
SCE1572_618	sce_426	3.00E-116	8.00E-119
SCE1572_6180	sce_5178	0.00E+00	0.00E+00
SCE1572_6181	sce_5179	1.00E-101	1.00E-101
SCE1572_6184	sce_5320	5.00E-09	8.00E-10
SCE1572_6185	sce_5195	0.00E+00	0.00E+00
SCE1572_6186	sce_5196	2.00E-06	1.00E-18
SCE1572_6187	sce_5197	2.00E-67	3.00E-81
SCE1572_6188	sce_5199	2.00E-110	6.00E-109
SCE1572_619	sce_427	5.00E-89	4.00E-44
SCE1572_6191	sce_5200	7.00E-79	9.00E-83
SCE1572_6192	sce_5206	6.00E-77	9.00E-83
SCE1572_6195	sce_5207	6.00E-57	1.00E-54
SCE1572_6196	sce_5208	2.00E-35	3.00E-25

SCE1572_6197	sce_5209	7.00E-14	8.00E-18
SCE1572_6198	sce_5211	1.00E-116	2.00E-122
SCE1572_620	sce_428	0.00E+00	0.00E+00
SCE1572_6200	sce_5224	4.00E-144	2.00E-154
SCE1572_6201	sce_5225	0.00E+00	0.00E+00
SCE1572_6202	sce_5226	0.00E+00	0.00E+00
SCE1572_6202	sce_5403	0.00E+00	0.00E+00
SCE1572_6202	sce_1803	0.00E+00	0.00E+00
SCE1572_6202	sce_7969	0.00E+00	0.00E+00
SCE1572_6202	sce_7154	0.00E+00	0.00E+00
SCE1572_6202	sce_9665	0.00E+00	0.00E+00
SCE1572_6202	sce_5751	0.00E+00	0.00E+00
SCE1572_6202	sce_4073	0.00E+00	0.00E+00
SCE1572_6202	sce_5746	0.00E+00	0.00E+00
SCE1572_6202	sce_2053	0.00E+00	0.00E+00
SCE1572_6202	sce_9757	0.00E+00	0.00E+00
SCE1572_6202	sce_9954	0.00E+00	0.00E+00
SCE1572_6202	sce_3750	0.00E+00	0.00E+00
SCE1572_6202	sce_6712	0.00E+00	0.00E+00
SCE1572_6202	sce_5229	0.00E+00	0.00E+00
SCE1572_6203	sce_5228	4.00E-144	3.00E-135
SCE1572_6205	sce_2524	0.00E+00	0.00E+00
SCE1572_6206	sce_2525	0.00E+00	0.00E+00
SCE1572_621	sce_430	0.00E+00	0.00E+00
SCE1572_6210	sce_8592	0.00E+00	0.00E+00
SCE1572_6210	sce_3937	0.00E+00	0.00E+00
SCE1572_6213	sce_10331	4.00E-83	8.00E-81
SCE1572_6215	sce_5242	2.00E-135	1.00E-134
SCE1572_6217	sce_9321	2.00E-16	6.00E-18
SCE1572_6222	sce_2729	4.00E-51	5.00E-58
SCE1572_6224	sce_5247	1.00E-114	3.00E-121
SCE1572_6225	sce_5248	3.00E-82	1.00E-91
SCE1572_6227	sce_8772	4.00E-33	4.00E-42
SCE1572_623	sce_431	0.00E+00	0.00E+00
SCE1572_6231	sce_3674	3.00E-126	1.00E-128
SCE1572_6232	sce_3675	3.00E-165	2.00E-163
SCE1572_6234	sce_8040	8.00E-10	9.00E-11
SCE1572_6235	sce_10194	4.00E-48	1.00E-42
SCE1572_6236	sce_2008	2.00E-115	1.00E-115
SCE1572_6238	sce_5252	9.00E-122	1.00E-140
SCE1572_6241	sce_5253	2.00E-57	6.00E-58
SCE1572_6242	sce_5254	0.00E+00	8.00E-173
SCE1572_6246	sce_7862	5.00E-167	5.00E-165
SCE1572_6247	sce_614	9.00E-120	1.00E-109
SCE1572_6248	sce_7861	4.00E-56	4.00E-56
SCE1572_6252	sce_5264	0.00E+00	0.00E+00
SCE1572_6253	sce_5265	2.00E-97	1.00E-90
SCE1572_6254	sce_5266	0.00E+00	0.00E+00
SCE1572_6259	sce_5270	5.00E-47	2.00E-46
SCE1572_6260	sce_5271	9.00E-132	1.00E-132
SCE1572_6261	sce_5272	1.00E-58	1.00E-63
SCE1572_6262	sce_5273	0.00E+00	0.00E+00
SCE1572_6263	sce_5274	3.00E-179	0.00E+00
SCE1572_6264	sce_5275	3.00E-118	5.00E-121
SCE1572_6265	sce_5282	1.00E-75	1.00E-75
SCE1572_6266	sce_5284	2.00E-07	2.00E-06
SCE1572_6269	sce_5285	2.00E-56	4.00E-57
SCE1572_627	sce_10425	0.00E+00	0.00E+00
SCE1572_627	sce_7361	0.00E+00	0.00E+00
SCE1572_627	sce_3520	0.00E+00	0.00E+00
SCE1572_6270	sce_5287	3.00E-109	3.00E-109
SCE1572_6272	sce_5289	7.00E-169	2.00E-173
SCE1572_6273	sce_3740	0.00E+00	0.00E+00
SCE1572_6274	sce_3739	3.00E-71	3.00E-71
SCE1572_6275	sce_3738	0.00E+00	0.00E+00
SCE1572_6276	sce_3737	8.00E-96	6.00E-90
SCE1572_6278	sce_3669	2.00E-53	5.00E-60
SCE1572_6279	sce_5294	1.00E-43	6.00E-47
SCE1572_628	sce_436	2.00E-66	8.00E-74
SCE1572_6280	sce_5297	2.00E-66	1.00E-66
SCE1572_6281	sce_1108	0.00E+00	0.00E+00
SCE1572_6281	sce_9028	0.00E+00	0.00E+00
SCE1572_6283	sce_5305	7.00E-161	3.00E-174
SCE1572_6284	sce_5310	3.00E-108	3.00E-108
SCE1572_6285	sce_5311	1.00E-115	1.00E-115
SCE1572_6286	sce_5312	3.00E-81	1.00E-81

SCE1572_6287	sce_5313	1.00E-93	1.00E-99
SCE1572_6289	sce_5318	8.00E-84	1.00E-78
SCE1572_629	sce_437	0.00E+00	0.00E+00
SCE1572_6291	sce_5319	3.00E-73	1.00E-102
SCE1572_6292	sce_5321	9.00E-127	1.00E-131
SCE1572_6293	sce_5150	3.00E-148	5.00E-148
SCE1572_6296	sce_5322	4.00E-73	8.00E-69
SCE1572_6298	sce_5323	2.00E-123	4.00E-128
SCE1572_63	sce_54	0.00E+00	0.00E+00
SCE1572_630	sce_438	1.00E-134	1.00E-134
SCE1572_6300	sce_5324	2.00E-78	2.00E-80
SCE1572_6301	sce_7403	2.00E-43	1.00E-42
SCE1572_6302	sce_5329	0.00E+00	0.00E+00
SCE1572_6304	sce_5331	3.00E-39	3.00E-39
SCE1572_6305	sce_5332	6.00E-99	9.00E-100
SCE1572_6306	sce_5333	1.00E-116	1.00E-118
SCE1572_6307	sce_5334	5.00E-158	1.00E-163
SCE1572_6308	sce_5335	3.00E-133	3.00E-141
SCE1572_6309	sce_5336	7.00E-135	7.00E-135
SCE1572_631	sce_439	0.00E+00	0.00E+00
SCE1572_6310	sce_5337	3.00E-144	4.00E-145
SCE1572_6311	sce_5338	7.00E-141	7.00E-141
SCE1572_6313	sce_2034	2.00E-101	5.00E-105
SCE1572_6318	sce_5340	3.00E-62	8.00E-83
SCE1572_6319	sce_5341	3.00E-76	1.00E-74
SCE1572_632	sce_440	3.00E-162	2.00E-162
SCE1572_6321	sce_5342	3.00E-90	7.00E-94
SCE1572_6322	sce_5343	6.00E-65	1.00E-64
SCE1572_6323	sce_5344	0.00E+00	0.00E+00
SCE1572_6324	sce_5345	2.00E-147	2.00E-156
SCE1572_6325	sce_5346	1.00E-57	6.00E-43
SCE1572_6326	sce_5348	5.00E-51	5.00E-51
SCE1572_6327	sce_5349	1.00E-32	3.00E-33
SCE1572_6328	sce_5350	2.00E-113	2.00E-113
SCE1572_6329	sce_5351	0.00E+00	0.00E+00
SCE1572_633	sce_441	2.00E-135	8.00E-140
SCE1572_6330	sce_5352	0.00E+00	0.00E+00
SCE1572_6331	sce_5353	1.00E-64	1.00E-64
SCE1572_6332	sce_5354	7.00E-130	9.00E-140
SCE1572_6333	sce_5355	2.00E-142	3.00E-142
SCE1572_6334	sce_5357	2.00E-154	2.00E-164
SCE1572_6335	sce_5358	0.00E+00	0.00E+00
SCE1572_6335	sce_9776	0.00E+00	0.00E+00
SCE1572_6336	sce_5359	0.00E+00	0.00E+00
SCE1572_6336	sce_9777	0.00E+00	0.00E+00
SCE1572_6337	sce_5360	4.00E-96	4.00E-96
SCE1572_6338	sce_5361	2.00E-72	8.00E-64
SCE1572_6339	sce_5373	1.00E-147	1.00E-147
SCE1572_634	sce_442	0.00E+00	0.00E+00
SCE1572_6340	sce_5374	6.00E-46	3.00E-79
SCE1572_6341	sce_5375	6.00E-141	6.00E-141
SCE1572_6342	sce_5377	1.00E-172	0.00E+00
SCE1572_6343	sce_5378	0.00E+00	0.00E+00
SCE1572_6344	sce_5379	0.00E+00	0.00E+00
SCE1572_6345	sce_5380	2.00E-45	2.00E-50
SCE1572_6346	sce_5382	1.00E-150	1.00E-153
SCE1572_6347	sce_5383	3.00E-85	3.00E-85
SCE1572_635	sce_443	5.00E-95	5.00E-83
SCE1572_6351	sce_5387	3.00E-146	3.00E-139
SCE1572_6352	sce_5388	1.00E-63	9.00E-58
SCE1572_6353	sce_5389	7.00E-124	7.00E-124
SCE1572_6354	sce_5506	1.00E-56	2.00E-52
SCE1572_6356	sce_6038	1.00E-173	2.00E-170
SCE1572_6357	sce_5390	6.00E-158	6.00E-177
SCE1572_6359	sce_5391	7.00E-80	4.00E-69
SCE1572_636	sce_444	1.00E-97	1.00E-104
SCE1572_6360	sce_5392	3.00E-56	8.00E-50
SCE1572_6363	sce_5393	0.00E+00	0.00E+00
SCE1572_6364	sce_5394	5.00E-110	2.00E-126
SCE1572_6365	sce_5395	1.00E-168	6.00E-171
SCE1572_6366	sce_5396	2.00E-124	5.00E-74
SCE1572_6367	sce_5397	3.00E-79	7.00E-74
SCE1572_6368	sce_5398	0.00E+00	0.00E+00
SCE1572_637	sce_446	4.00E-90	4.00E-90
SCE1572_6370	sce_5400	9.00E-42	2.00E-45
SCE1572_6377	sce_5401	4.00E-95	7.00E-99

SCE1572_6378	sce_7567	3.00E-96	2.00E-96
SCE1572_638	sce_447	4.00E-108	1.00E-108
SCE1572_6381	sce_5402	4.00E-46	4.00E-46
SCE1572_6382	sce_5403	0.00E+00	0.00E+00
SCE1572_6382	sce_5226	0.00E+00	0.00E+00
SCE1572_6382	sce_7969	0.00E+00	0.00E+00
SCE1572_6382	sce_7154	0.00E+00	0.00E+00
SCE1572_6382	sce_5751	0.00E+00	0.00E+00
SCE1572_6382	sce_4073	0.00E+00	0.00E+00
SCE1572_6382	sce_9665	0.00E+00	0.00E+00
SCE1572_6382	sce_5746	0.00E+00	0.00E+00
SCE1572_6382	sce_2053	0.00E+00	0.00E+00
SCE1572_6382	sce_9954	0.00E+00	0.00E+00
SCE1572_6382	sce_1803	0.00E+00	0.00E+00
SCE1572_6382	sce_6712	0.00E+00	0.00E+00
SCE1572_6382	sce_3750	0.00E+00	0.00E+00
SCE1572_6382	sce_5229	0.00E+00	0.00E+00
SCE1572_6383	sce_5404	8.00E-12	8.00E-12
SCE1572_6384	sce_5405	7.00E-142	4.00E-140
SCE1572_6386	sce_5406	0.00E+00	0.00E+00
SCE1572_6387	sce_5407	0.00E+00	0.00E+00
SCE1572_6388	sce_5408	0.00E+00	0.00E+00
SCE1572_6389	sce_5409	0.00E+00	0.00E+00
SCE1572_639	sce_448	0.00E+00	0.00E+00
SCE1572_6390	sce_5410	1.00E-139	1.00E-139
SCE1572_6392	sce_5412	1.00E-110	1.00E-110
SCE1572_6393	sce_5413	5.00E-129	5.00E-129
SCE1572_6394	sce_5414	3.00E-58	6.00E-58
SCE1572_6396	sce_5415	0.00E+00	0.00E+00
SCE1572_6397	sce_5416	0.00E+00	0.00E+00
SCE1572_6398	sce_5417	3.00E-124	1.00E-130
SCE1572_6399	sce_5418	0.00E+00	0.00E+00
SCE1572_64	sce_55	1.00E-110	4.00E-103
SCE1572_640	sce_449	5.00E-50	8.00E-79
SCE1572_6400	sce_5419	0.00E+00	0.00E+00
SCE1572_6401	sce_5420	9.00E-07	9.00E-07
SCE1572_6402	sce_5422	0.00E+00	0.00E+00
SCE1572_6403	sce_5423	1.00E-123	7.00E-120
SCE1572_6404	sce_5424	2.00E-13	1.00E-27
SCE1572_6405	sce_5425	1.00E-98	4.00E-101
SCE1572_6406	sce_5426	2.00E-56	5.00E-75
SCE1572_6407	sce_5427	5.00E-140	7.00E-146
SCE1572_6408	sce_5428	4.00E-142	3.00E-134
SCE1572_6409	sce_5429	2.00E-13	3.00E-12
SCE1572_641	sce_450	3.00E-116	2.00E-112
SCE1572_6412	sce_5430	7.00E-103	8.00E-103
SCE1572_6413	sce_5431	1.00E-83	2.00E-83
SCE1572_6415	sce_5433	5.00E-128	2.00E-128
SCE1572_6416	sce_5434	3.00E-68	4.00E-51
SCE1572_6418	sce_5435	0.00E+00	0.00E+00
SCE1572_6419	sce_4723	3.00E-11	4.00E-18
SCE1572_642	sce_451	0.00E+00	0.00E+00
SCE1572_6420	sce_4725	0.00E+00	0.00E+00
SCE1572_6420	sce_5308	0.00E+00	0.00E+00
SCE1572_6422	sce_7652	1.00E-32	4.00E-24
SCE1572_6423	sce_3067	2.00E-134	2.00E-138
SCE1572_6425	sce_1172	5.00E-85	7.00E-76
SCE1572_6426	sce_1171	1.00E-47	7.00E-43
SCE1572_6428	sce_7206	1.00E-129	4.00E-145
SCE1572_6429	sce_2031	1.00E-144	8.00E-141
SCE1572_643	sce_452	4.00E-111	1.00E-98
SCE1572_6430	sce_6181	0.00E+00	0.00E+00
SCE1572_6431	sce_7564	8.00E-76	2.00E-73
SCE1572_6432	sce_2123	4.00E-75	3.00E-84
SCE1572_6433	sce_2124	2.00E-59	6.00E-58
SCE1572_6436	sce_3639	1.00E-109	9.00E-112
SCE1572_6437	sce_3640	8.00E-97	8.00E-97
SCE1572_644	sce_453	7.00E-56	2.00E-65
SCE1572_6445	sce_5449	5.00E-101	7.00E-106
SCE1572_6451	sce_8592	0.00E+00	0.00E+00
SCE1572_6451	sce_3937	0.00E+00	0.00E+00
SCE1572_6452	sce_3937	0.00E+00	0.00E+00
SCE1572_6452	sce_8592	0.00E+00	0.00E+00
SCE1572_6457	sce_5452	0.00E+00	0.00E+00
SCE1572_6464	sce_5437	7.00E-43	5.00E-40
SCE1572_6465	sce_5438	6.00E-93	3.00E-97

SCE1572_6466	sce_5439	7.00E-108	1.00E-107
SCE1572_6467	sce_5440	6.00E-150	6.00E-141
SCE1572_6468	sce_5441	0.00E+00	0.00E+00
SCE1572_6469	sce_5442	1.00E-174	7.00E-179
SCE1572_6470	sce_5443	2.00E-140	2.00E-140
SCE1572_6471	sce_5444	0.00E+00	2.00E-178
SCE1572_6472	sce_5445	2.00E-127	3.00E-127
SCE1572_6478	sce_2488	1.00E-61	7.00E-62
SCE1572_648	sce_455	0.00E+00	0.00E+00
SCE1572_6482	sce_5451	5.00E-170	2.00E-161
SCE1572_6484	sce_5454	5.00E-164	0.00E+00
SCE1572_6485	sce_5455	7.00E-93	5.00E-94
SCE1572_6486	sce_5456	4.00E-46	5.00E-43
SCE1572_6487	sce_5457	4.00E-59	9.00E-43
SCE1572_6488	sce_5458	2.00E-16	5.00E-13
SCE1572_6490	sce_2076	1.00E-67	2.00E-81
SCE1572_6492	sce_2078	1.00E-103	9.00E-124
SCE1572_6493	sce_2079	1.00E-101	2.00E-107
SCE1572_6498	sce_5461	0.00E+00	0.00E+00
SCE1572_6499	sce_9818	5.00E-08	4.00E-10
SCE1572_65	sce_56	2.00E-106	2.00E-102
SCE1572_650	sce_945	0.00E+00	0.00E+00
SCE1572_650	sce_457	0.00E+00	0.00E+00
SCE1572_6509	sce_3727	4.00E-59	2.00E-60
SCE1572_651	sce_458	3.00E-26	3.00E-26
SCE1572_6511	sce_9988	1.00E-85	4.00E-84
SCE1572_6512	sce_5465	0.00E+00	0.00E+00
SCE1572_6514	sce_5467	0.00E+00	0.00E+00
SCE1572_6515	sce_5468	4.00E-53	2.00E-74
SCE1572_6516	sce_5469	0.00E+00	0.00E+00
SCE1572_6517	sce_5471	3.00E-46	2.00E-62
SCE1572_652	sce_459	1.00E-55	2.00E-39
SCE1572_6520	sce_5493	2.00E-125	8.00E-100
SCE1572_6521	sce_5494	9.00E-28	9.00E-28
SCE1572_6524	sce_5495	7.00E-142	1.00E-141
SCE1572_6525	sce_1706	7.00E-67	2.00E-58
SCE1572_653	sce_460	6.00E-99	6.00E-99
SCE1572_6530	sce_9960	0.00E+00	0.00E+00
SCE1572_6531	sce_9961	0.00E+00	0.00E+00
SCE1572_6535	sce_9435	3.00E-73	2.00E-81
SCE1572_6541	sce_5497	1.00E-121	7.00E-118
SCE1572_6542	sce_5498	2.00E-141	2.00E-149
SCE1572_6543	sce_5499	1.00E-118	1.00E-118
SCE1572_6544	sce_5500	0.00E+00	0.00E+00
SCE1572_6545	sce_5501	2.00E-171	2.00E-143
SCE1572_6547	sce_9557	3.00E-169	0.00E+00
SCE1572_655	sce_461	2.00E-80	2.00E-80
SCE1572_6551	sce_5511	4.00E-170	0.00E+00
SCE1572_6556	sce_7099	1.00E-61	7.00E-66
SCE1572_6557	sce_5514	1.00E-134	1.00E-120
SCE1572_6559	sce_6328	4.00E-70	1.00E-69
SCE1572_656	sce_462	9.00E-111	2.00E-111
SCE1572_657	sce_463	1.00E-94	6.00E-85
SCE1572_6570	sce_6017	2.00E-64	4.00E-50
SCE1572_6572	sce_9878	2.00E-86	2.00E-86
SCE1572_6574	sce_8429	0.00E+00	0.00E+00
SCE1572_6575	sce_5136	3.00E-22	8.00E-23
SCE1572_6576	sce_9599	2.00E-108	2.00E-108
SCE1572_6577	sce_9598	5.00E-142	2.00E-141
SCE1572_6578	sce_1328	7.00E-162	3.00E-164
SCE1572_6579	sce_9849	9.00E-64	3.00E-65
SCE1572_658	sce_464	4.00E-47	5.00E-47
SCE1572_6581	sce_6235	0.00E+00	0.00E+00
SCE1572_6581	sce_2161	0.00E+00	0.00E+00
SCE1572_6581	sce_225	0.00E+00	0.00E+00
SCE1572_6581	sce_8357	0.00E+00	0.00E+00
SCE1572_6581	sce_5276	0.00E+00	0.00E+00
SCE1572_6582	sce_5517	1.00E-111	2.00E-120
SCE1572_6585	sce_7661	0.00E+00	0.00E+00
SCE1572_6585	sce_6093	0.00E+00	0.00E+00
SCE1572_6585	sce_6092	0.00E+00	0.00E+00
SCE1572_6585	sce_6095	0.00E+00	0.00E+00
SCE1572_6585	sce_3917	0.00E+00	0.00E+00
SCE1572_6585	sce_6107	0.00E+00	0.00E+00
SCE1572_6585	sce_6094	0.00E+00	0.00E+00
SCE1572_6585	sce_10204	0.00E+00	0.00E+00

SCE1572_6585	sce_9920	0.00E+00	0.00E+00
SCE1572_6585	sce_6535	0.00E+00	0.00E+00
SCE1572_6585	sce_388	0.00E+00	0.00E+00
SCE1572_6585	sce_3003	0.00E+00	0.00E+00
SCE1572_6585	sce_7640	0.00E+00	0.00E+00
SCE1572_6585	sce_9557	0.00E+00	0.00E+00
SCE1572_6585	sce_5835	0.00E+00	0.00E+00
SCE1572_6585	sce_4513	0.00E+00	0.00E+00
SCE1572_6585	sce_8618	0.00E+00	0.00E+00
SCE1572_6587	sce_9236	0.00E+00	0.00E+00
SCE1572_6587	sce_389	0.00E+00	0.00E+00
SCE1572_6588	sce_389	0.00E+00	0.00E+00
SCE1572_6588	sce_7637	0.00E+00	0.00E+00
SCE1572_6588	sce_2666	0.00E+00	0.00E+00
SCE1572_6588	sce_9237	0.00E+00	0.00E+00
SCE1572_659	sce_465	4.00E-24	4.00E-24
SCE1572_6596	sce_5518	4.00E-23	2.00E-38
SCE1572_6597	sce_5519	4.00E-52	2.00E-56
SCE1572_6598	sce_5520	2.00E-107	5.00E-107
SCE1572_6599	sce_5522	0.00E+00	0.00E+00
SCE1572_66	sce_58	0.00E+00	0.00E+00
SCE1572_660	sce_466	0.00E+00	0.00E+00
SCE1572_6600	sce_5523	0.00E+00	0.00E+00
SCE1572_6601	sce_5524	0.00E+00	0.00E+00
SCE1572_6601	sce_9469	0.00E+00	0.00E+00
SCE1572_6602	sce_5526	3.00E-72	3.00E-97
SCE1572_6603	sce_5527	3.00E-121	3.00E-126
SCE1572_6605	sce_2518	4.00E-26	5.00E-23
SCE1572_6609	sce_8361	3.00E-09	8.00E-10
SCE1572_661	sce_467	3.00E-09	4.00E-15
SCE1572_6610	sce_803	6.00E-37	1.00E-47
SCE1572_6614	sce_5529	3.00E-152	1.00E-148
SCE1572_6616	sce_5530	0.00E+00	0.00E+00
SCE1572_6617	sce_7059	2.00E-47	9.00E-53
SCE1572_6619	sce_7066	2.00E-19	2.00E-29
SCE1572_662	sce_468	0.00E+00	0.00E+00
SCE1572_6624	sce_169	2.00E-22	1.00E-24
SCE1572_6625	sce_9401	3.00E-41	2.00E-43
SCE1572_6629	sce_3602	8.00E-63	6.00E-61
SCE1572_6630	sce_3603	9.00E-63	1.00E-63
SCE1572_6634	sce_9373	0.00E+00	0.00E+00
SCE1572_6634	sce_4062	0.00E+00	0.00E+00
SCE1572_6637	sce_5710	0.00E+00	0.00E+00
SCE1572_664	sce_469	0.00E+00	0.00E+00
SCE1572_6640	sce_5538	0.00E+00	0.00E+00
SCE1572_6641	sce_5539	6.00E-122	2.00E-116
SCE1572_6642	sce_5540	4.00E-73	1.00E-77
SCE1572_6643	sce_5541	2.00E-177	1.00E-177
SCE1572_6645	sce_1705	3.00E-86	6.00E-98
SCE1572_6646	sce_2536	7.00E-93	8.00E-93
SCE1572_665	sce_470	1.00E-78	3.00E-93
SCE1572_6650	sce_1704	2.00E-133	2.00E-134
SCE1572_6652	sce_7114	3.00E-48	8.00E-49
SCE1572_6654	sce_5546	0.00E+00	0.00E+00
SCE1572_6654	sce_10036	0.00E+00	0.00E+00
SCE1572_6655	sce_5551	1.00E-20	2.00E-44
SCE1572_6657	sce_3612	0.00E+00	0.00E+00
SCE1572_666	sce_471	8.00E-147	4.00E-150
SCE1572_6663	sce_5556	2.00E-116	2.00E-101
SCE1572_6665	sce_5554	7.00E-176	1.00E-154
SCE1572_6666	sce_5555	0.00E+00	0.00E+00
SCE1572_6668	sce_9809	2.00E-154	2.00E-171
SCE1572_6669	sce_9810	3.00E-96	7.00E-97
SCE1572_667	sce_472	0.00E+00	0.00E+00
SCE1572_6670	sce_9811	1.00E-56	9.00E-43
SCE1572_6671	sce_5917	5.00E-62	3.00E-62
SCE1572_6673	sce_5558	1.00E-30	7.00E-38
SCE1572_6676	sce_5560	7.00E-88	5.00E-95
SCE1572_6677	sce_5181	2.00E-94	1.00E-82
SCE1572_6678	sce_5561	2.00E-92	8.00E-93
SCE1572_668	sce_473	1.00E-116	2.00E-112
SCE1572_6680	sce_5562	2.00E-84	5.00E-90
SCE1572_6681	sce_5563	7.00E-103	8.00E-128
SCE1572_6683	sce_5564	2.00E-166	2.00E-159
SCE1572_6684	sce_5568	2.00E-172	2.00E-179
SCE1572_6687	sce_5569	2.00E-66	2.00E-66

SCE1572_6688	sce_5086	0.00E+00	0.00E+00
SCE1572_6688	sce_5085	0.00E+00	0.00E+00
SCE1572_6688	sce_6701	0.00E+00	0.00E+00
SCE1572_6688	sce_3793	0.00E+00	0.00E+00
SCE1572_669	sce_474	0.00E+00	0.00E+00
SCE1572_6691	sce_10016	3.00E-24	3.00E-24
SCE1572_6694	sce_2414	3.00E-131	1.00E-122
SCE1572_6695	sce_5574	5.00E-162	2.00E-171
SCE1572_6696	sce_5575	3.00E-89	1.00E-100
SCE1572_6697	sce_5576	9.00E-102	9.00E-102
SCE1572_67	sce_60	1.00E-133	8.00E-122
SCE1572_670	sce_475	3.00E-160	4.00E-164
SCE1572_6700	sce_2475	7.00E-145	1.00E-152
SCE1572_6701	sce_3424	0.00E+00	0.00E+00
SCE1572_6704	sce_5577	2.00E-66	1.00E-77
SCE1572_6705	sce_5578	0.00E+00	0.00E+00
SCE1572_6705	sce_1392	0.00E+00	0.00E+00
SCE1572_6706	sce_5579	7.00E-89	7.00E-89
SCE1572_6708	sce_5580	1.00E-132	1.00E-130
SCE1572_6709	sce_5581	9.00E-180	8.00E-180
SCE1572_671	sce_476	2.00E-145	8.00E-167
SCE1572_6710	sce_5582	0.00E+00	0.00E+00
SCE1572_6710	sce_8116	0.00E+00	0.00E+00
SCE1572_6711	sce_5583	2.00E-101	2.00E-101
SCE1572_6712	sce_5584	0.00E+00	0.00E+00
SCE1572_6713	sce_5585	4.00E-94	3.00E-96
SCE1572_6714	sce_5586	0.00E+00	0.00E+00
SCE1572_6715	sce_5587	0.00E+00	0.00E+00
SCE1572_6716	sce_5588	0.00E+00	0.00E+00
SCE1572_6717	sce_5589	9.00E-105	1.00E-97
SCE1572_6719	sce_5590	3.00E-145	3.00E-140
SCE1572_672	sce_478	7.00E-53	2.00E-83
SCE1572_6720	sce_5592	8.00E-78	3.00E-69
SCE1572_6721	sce_5593	1.00E-60	3.00E-60
SCE1572_6722	sce_5594	9.00E-74	9.00E-74
SCE1572_6723	sce_5595	0.00E+00	0.00E+00
SCE1572_6724	sce_5596	9.00E-172	0.00E+00
SCE1572_6725	sce_5597	4.00E-103	2.00E-102
SCE1572_6726	sce_5598	4.00E-85	3.00E-85
SCE1572_6727	sce_5599	5.00E-82	3.00E-86
SCE1572_6728	sce_5600	8.00E-54	2.00E-38
SCE1572_6729	sce_5601	6.00E-13	5.00E-15
SCE1572_6730	sce_5602	0.00E+00	0.00E+00
SCE1572_6730	sce_3185	0.00E+00	0.00E+00
SCE1572_6730	sce_5033	0.00E+00	0.00E+00
SCE1572_6732	sce_5604	6.00E-124	2.00E-127
SCE1572_6733	sce_5605	7.00E-152	2.00E-145
SCE1572_6734	sce_5606	3.00E-114	1.00E-102
SCE1572_6735	sce_5607	0.00E+00	0.00E+00
SCE1572_6736	sce_5608	1.00E-153	1.00E-153
SCE1572_6737	sce_5609	4.00E-84	1.00E-83
SCE1572_6738	sce_5610	4.00E-96	8.00E-112
SCE1572_6740	sce_1003	0.00E+00	0.00E+00
SCE1572_6742	sce_5614	4.00E-130	2.00E-140
SCE1572_6743	sce_5615	5.00E-12	3.00E-14
SCE1572_6744	sce_5616	5.00E-80	3.00E-66
SCE1572_6750	sce_5627	4.00E-169	3.00E-178
SCE1572_6755	sce_10428	4.00E-43	9.00E-43
SCE1572_6756	sce_10429	4.00E-54	9.00E-54
SCE1572_6757	sce_10430	5.00E-116	5.00E-116
SCE1572_6759	sce_5628	2.00E-54	3.00E-62
SCE1572_676	sce_480	4.00E-78	8.00E-81
SCE1572_6760	sce_1338	0.00E+00	0.00E+00
SCE1572_6760	sce_9335	0.00E+00	0.00E+00
SCE1572_6764	sce_5629	0.00E+00	0.00E+00
SCE1572_6768	sce_5447	7.00E-20	2.00E-14
SCE1572_6769	sce_5632	0.00E+00	0.00E+00
SCE1572_677	sce_481	0.00E+00	0.00E+00
SCE1572_6770	sce_5634	2.00E-06	1.00E-06
SCE1572_6771	sce_5635	4.00E-23	3.00E-08
SCE1572_6773	sce_5637	0.00E+00	0.00E+00
SCE1572_6776	sce_5639	0.00E+00	0.00E+00
SCE1572_6776	sce_9625	0.00E+00	0.00E+00
SCE1572_6776	sce_5292	0.00E+00	0.00E+00
SCE1572_6777	sce_5640	9.00E-10	8.00E-10
SCE1572_6778	sce_5641	2.00E-90	6.00E-100

SCE1572_6779	sce_5642	7.00E-87	1.00E-87
SCE1572_678	sce_482	0.00E+00	0.00E+00
SCE1572_6781	sce_5643	3.00E-50	1.00E-41
SCE1572_6782	sce_5644	1.00E-42	3.00E-40
SCE1572_6783	sce_5645	1.00E-73	1.00E-73
SCE1572_6787	sce_5646	4.00E-111	3.00E-113
SCE1572_6788	sce_5647	9.00E-129	2.00E-126
SCE1572_6789	sce_5648	0.00E+00	0.00E+00
SCE1572_679	sce_483	8.00E-72	8.00E-72
SCE1572_6792	sce_5650	0.00E+00	0.00E+00
SCE1572_6793	sce_5652	0.00E+00	0.00E+00
SCE1572_6794	sce_5653	1.00E-113	4.00E-117
SCE1572_6795	sce_5654	0.00E+00	0.00E+00
SCE1572_6796	sce_5655	1.00E-35	2.00E-22
SCE1572_6797	sce_5656	1.00E-169	1.00E-169
SCE1572_6798	sce_5657	0.00E+00	0.00E+00
SCE1572_6799	sce_5658	5.00E-50	3.00E-78
SCE1572_68	sce_61	0.00E+00	0.00E+00
SCE1572_6800	sce_5660	0.00E+00	0.00E+00
SCE1572_6802	sce_5662	0.00E+00	0.00E+00
SCE1572_6803	sce_5663	1.00E-111	8.00E-102
SCE1572_6804	sce_5664	3.00E-106	3.00E-110
SCE1572_6806	sce_5666	0.00E+00	0.00E+00
SCE1572_6807	sce_5667	2.00E-133	2.00E-133
SCE1572_6808	sce_5668	5.00E-134	9.00E-143
SCE1572_6809	sce_5669	0.00E+00	0.00E+00
SCE1572_681	sce_484	2.00E-77	7.00E-90
SCE1572_6810	sce_5670	0.00E+00	0.00E+00
SCE1572_6811	sce_5671	3.00E-134	5.00E-141
SCE1572_6812	sce_5672	4.00E-24	5.00E-37
SCE1572_6813	sce_5673	0.00E+00	0.00E+00
SCE1572_6814	sce_5675	0.00E+00	0.00E+00
SCE1572_6815	sce_5677	0.00E+00	0.00E+00
SCE1572_6816	sce_5678	0.00E+00	0.00E+00
SCE1572_6817	sce_5679	9.00E-55	5.00E-55
SCE1572_6818	sce_5680	4.00E-60	3.00E-60
SCE1572_6819	sce_5681	1.00E-97	4.00E-101
SCE1572_682	sce_485	0.00E+00	0.00E+00
SCE1572_6820	sce_5682	2.00E-35	3.00E-34
SCE1572_6821	sce_5683	1.00E-116	2.00E-107
SCE1572_6822	sce_5684	6.00E-79	8.00E-80
SCE1572_6823	sce_5685	0.00E+00	0.00E+00
SCE1572_6824	sce_5686	4.00E-124	4.00E-118
SCE1572_6826	sce_5687	4.00E-63	1.00E-62
SCE1572_6827	sce_5688	0.00E+00	0.00E+00
SCE1572_6828	sce_5689	0.00E+00	0.00E+00
SCE1572_683	sce_486	8.00E-47	9.00E-47
SCE1572_6831	sce_5691	0.00E+00	0.00E+00
SCE1572_6832	sce_5694	5.00E-87	8.00E-88
SCE1572_6833	sce_5695	1.00E-146	1.00E-162
SCE1572_6835	sce_5696	1.00E-93	1.00E-93
SCE1572_6837	sce_5697	1.00E-73	8.00E-74
SCE1572_6838	sce_5698	3.00E-69	4.00E-69
SCE1572_6839	sce_5699	2.00E-169	0.00E+00
SCE1572_684	sce_487	1.00E-156	2.00E-147
SCE1572_6840	sce_5700	2.00E-93	1.00E-93
SCE1572_6841	sce_5701	0.00E+00	0.00E+00
SCE1572_6842	sce_5702	1.00E-147	2.00E-146
SCE1572_6843	sce_5703	6.00E-104	2.00E-112
SCE1572_6844	sce_5704	0.00E+00	0.00E+00
SCE1572_6845	sce_5705	6.00E-78	3.00E-86
SCE1572_6846	sce_5706	2.00E-99	2.00E-99
SCE1572_6847	sce_5707	0.00E+00	1.00E-130
SCE1572_6848	sce_5709	0.00E+00	1.00E-168
SCE1572_6849	sce_5711	0.00E+00	0.00E+00
SCE1572_6850	sce_5712	4.00E-85	4.00E-66
SCE1572_6851	sce_5713	3.00E-27	2.00E-30
SCE1572_6853	sce_5714	0.00E+00	0.00E+00
SCE1572_6854	sce_5715	7.00E-79	1.00E-79
SCE1572_6855	sce_5716	6.00E-30	7.00E-30
SCE1572_6856	sce_5717	5.00E-94	5.00E-94
SCE1572_6857	sce_5718	1.00E-97	2.00E-102
SCE1572_6858	sce_5719	2.00E-168	1.00E-157
SCE1572_6859	sce_5720	2.00E-51	4.00E-51
SCE1572_686	sce_488	0.00E+00	0.00E+00
SCE1572_6860	sce_5721	0.00E+00	0.00E+00

SCE1572_6860	sce_8732	0.00E+00	0.00E+00
SCE1572_6861	sce_5723	8.00E-23	1.00E-22
SCE1572_6862	sce_5724	0.00E+00	0.00E+00
SCE1572_6863	sce_5725	2.00E-165	6.00E-171
SCE1572_6865	sce_5728	0.00E+00	0.00E+00
SCE1572_6866	sce_5729	0.00E+00	0.00E+00
SCE1572_6867	sce_5730	0.00E+00	0.00E+00
SCE1572_6868	sce_5731	2.00E-95	3.00E-90
SCE1572_6869	sce_5732	9.00E-51	8.00E-58
SCE1572_687	sce_489	8.00E-53	1.00E-49
SCE1572_6870	sce_5733	7.00E-176	2.00E-169
SCE1572_6871	sce_5734	2.00E-100	2.00E-96
SCE1572_6872	sce_5735	1.00E-162	9.00E-163
SCE1572_6873	sce_5737	6.00E-148	1.00E-156
SCE1572_6874	sce_5738	7.00E-130	0.00E+00
SCE1572_6875	sce_5739	7.00E-16	4.00E-17
SCE1572_6876	sce_5741	2.00E-45	4.00E-41
SCE1572_6877	sce_5742	0.00E+00	0.00E+00
SCE1572_6878	sce_5743	4.00E-113	6.00E-118
SCE1572_6879	sce_5744	0.00E+00	0.00E+00
SCE1572_688	sce_490	6.00E-123	4.00E-118
SCE1572_6883	sce_5745	4.00E-120	3.00E-117
SCE1572_6886	sce_9736	1.00E-60	5.00E-61
SCE1572_689	sce_491	3.00E-172	0.00E+00
SCE1572_6892	sce_5751	0.00E+00	0.00E+00
SCE1572_6892	sce_5746	0.00E+00	0.00E+00
SCE1572_6892	sce_9665	0.00E+00	0.00E+00
SCE1572_6892	sce_5403	0.00E+00	0.00E+00
SCE1572_6892	sce_5226	0.00E+00	0.00E+00
SCE1572_6892	sce_1803	0.00E+00	0.00E+00
SCE1572_6892	sce_7154	0.00E+00	0.00E+00
SCE1572_6892	sce_7969	0.00E+00	0.00E+00
SCE1572_6892	sce_2053	0.00E+00	0.00E+00
SCE1572_6893	sce_5746	0.00E+00	0.00E+00
SCE1572_6893	sce_9665	0.00E+00	0.00E+00
SCE1572_6893	sce_5751	0.00E+00	0.00E+00
SCE1572_6893	sce_5403	0.00E+00	0.00E+00
SCE1572_6893	sce_5226	0.00E+00	0.00E+00
SCE1572_6893	sce_7969	0.00E+00	0.00E+00
SCE1572_6893	sce_2053	0.00E+00	0.00E+00
SCE1572_6893	sce_1803	0.00E+00	0.00E+00
SCE1572_6893	sce_4073	0.00E+00	0.00E+00
SCE1572_6893	sce_9954	0.00E+00	0.00E+00
SCE1572_6893	sce_3750	0.00E+00	0.00E+00
SCE1572_6894	sce_5751	0.00E+00	0.00E+00
SCE1572_6894	sce_5746	0.00E+00	0.00E+00
SCE1572_6894	sce_9665	0.00E+00	0.00E+00
SCE1572_6894	sce_5226	0.00E+00	0.00E+00
SCE1572_6894	sce_5403	0.00E+00	0.00E+00
SCE1572_6894	sce_7969	0.00E+00	0.00E+00
SCE1572_6894	sce_4073	0.00E+00	0.00E+00
SCE1572_6894	sce_7154	0.00E+00	0.00E+00
SCE1572_6894	sce_2053	0.00E+00	0.00E+00
SCE1572_6894	sce_9954	0.00E+00	0.00E+00
SCE1572_6894	sce_9757	0.00E+00	0.00E+00
SCE1572_6894	sce_6712	0.00E+00	0.00E+00
SCE1572_6894	sce_3750	0.00E+00	0.00E+00
SCE1572_6894	sce_1803	0.00E+00	0.00E+00
SCE1572_6898	sce_5752	0.00E+00	0.00E+00
SCE1572_6899	sce_5753	3.00E-127	1.00E-118
SCE1572_69	sce_62	3.00E-21	2.00E-12
SCE1572_690	sce_492	4.00E-58	1.00E-58
SCE1572_6903	sce_2563	5.00E-44	2.00E-37
SCE1572_691	sce_494	4.00E-151	8.00E-155
SCE1572_6910	sce_9236	0.00E+00	0.00E+00
SCE1572_6910	sce_389	0.00E+00	0.00E+00
SCE1572_6915	sce_5756	0.00E+00	0.00E+00
SCE1572_6916	sce_5761	5.00E-143	6.00E-143
SCE1572_6917	sce_8380	3.00E-64	3.00E-48
SCE1572_6918	sce_5762	5.00E-68	5.00E-68
SCE1572_6919	sce_8379	2.00E-89	1.00E-97
SCE1572_692	sce_495	6.00E-42	6.00E-42
SCE1572_6921	sce_2065	0.00E+00	0.00E+00
SCE1572_6921	sce_8618	0.00E+00	0.00E+00
SCE1572_6921	sce_10204	0.00E+00	0.00E+00
SCE1572_6921	sce_6092	0.00E+00	0.00E+00

SCE1572_6921	sce_6535	0.00E+00	0.00E+00
SCE1572_6921	sce_3003	0.00E+00	0.00E+00
SCE1572_6921	sce_6095	0.00E+00	0.00E+00
SCE1572_6921	sce_7661	0.00E+00	0.00E+00
SCE1572_6921	sce_388	0.00E+00	0.00E+00
SCE1572_6921	sce_7640	0.00E+00	0.00E+00
SCE1572_6921	sce_4513	0.00E+00	0.00E+00
SCE1572_6921	sce_9557	0.00E+00	0.00E+00
SCE1572_6921	sce_5835	0.00E+00	0.00E+00
SCE1572_6922	sce_1259	1.00E-22	5.00E-27
SCE1572_6923	sce_805	0.00E+00	0.00E+00
SCE1572_6923	sce_229	0.00E+00	0.00E+00
SCE1572_6929	sce_5770	5.00E-15	1.00E-21
SCE1572_693	sce_496	0.00E+00	0.00E+00
SCE1572_6932	sce_5763	1.00E-76	1.00E-76
SCE1572_6937	sce_5766	4.00E-41	2.00E-43
SCE1572_6939	sce_5767	4.00E-121	9.00E-127
SCE1572_694	sce_9364	2.00E-47	8.00E-48
SCE1572_6940	sce_5768	3.00E-51	2.00E-53
SCE1572_6941	sce_5769	0.00E+00	0.00E+00
SCE1572_6942	sce_1680	0.00E+00	0.00E+00
SCE1572_6946	sce_5528	6.00E-65	6.00E-65
SCE1572_6947	sce_5773	3.00E-94	5.00E-113
SCE1572_6948	sce_5835	0.00E+00	0.00E+00
SCE1572_6948	sce_388	0.00E+00	0.00E+00
SCE1572_6948	sce_7640	0.00E+00	0.00E+00
SCE1572_6948	sce_3085	0.00E+00	0.00E+00
SCE1572_6948	sce_7109	0.00E+00	0.00E+00
SCE1572_6948	sce_3003	0.00E+00	0.00E+00
SCE1572_6948	sce_10204	0.00E+00	0.00E+00
SCE1572_6948	sce_4513	0.00E+00	0.00E+00
SCE1572_695	sce_9358	3.00E-66	7.00E-71
SCE1572_6953	sce_2385	1.00E-37	1.00E-38
SCE1572_6955	sce_5883	5.00E-75	5.00E-65
SCE1572_6956	sce_177	2.00E-15	4.00E-12
SCE1572_6960	sce_5775	0.00E+00	0.00E+00
SCE1572_6962	sce_5776	3.00E-77	7.00E-77
SCE1572_6963	sce_5777	0.00E+00	0.00E+00
SCE1572_6964	sce_5778	0.00E+00	0.00E+00
SCE1572_6965	sce_5779	2.00E-125	2.00E-125
SCE1572_6966	sce_5780	0.00E+00	0.00E+00
SCE1572_6967	sce_5781	0.00E+00	0.00E+00
SCE1572_6968	sce_5782	1.00E-147	2.00E-135
SCE1572_6969	sce_5783	1.00E-66	9.00E-55
SCE1572_6970	sce_5784	4.00E-36	1.00E-39
SCE1572_6974	sce_5787	0.00E+00	0.00E+00
SCE1572_6974	sce_1723	0.00E+00	0.00E+00
SCE1572_6974	sce_774	0.00E+00	0.00E+00
SCE1572_6975	sce_5788	4.00E-102	4.00E-114
SCE1572_6976	sce_5789	1.00E-156	1.00E-163
SCE1572_6978	sce_5790	6.00E-86	4.00E-85
SCE1572_6980	sce_5791	2.00E-123	1.00E-123
SCE1572_6981	sce_5794	2.00E-77	2.00E-77
SCE1572_6983	sce_5797	0.00E+00	0.00E+00
SCE1572_6983	sce_3612	0.00E+00	0.00E+00
SCE1572_6983	sce_886	0.00E+00	0.00E+00
SCE1572_6983	sce_248	0.00E+00	0.00E+00
SCE1572_6984	sce_5799	2.00E-40	1.00E-35
SCE1572_6985	sce_5800	0.00E+00	0.00E+00
SCE1572_6988	sce_5805	3.00E-106	3.00E-98
SCE1572_6991	sce_5807	7.00E-180	2.00E-170
SCE1572_6992	sce_100	2.00E-129	2.00E-136
SCE1572_6993	sce_5811	9.00E-108	3.00E-123
SCE1572_6994	sce_5812	3.00E-112	2.00E-111
SCE1572_6995	sce_5813	6.00E-98	4.00E-86
SCE1572_6996	sce_5815	4.00E-76	6.00E-76
SCE1572_7	sce_7	1.00E-88	1.00E-88
SCE1572_70	sce_63	2.00E-151	6.00E-152
SCE1572_7003	sce_3413	0.00E+00	0.00E+00
SCE1572_7004	sce_5821	6.00E-86	2.00E-89
SCE1572_7005	sce_5822	6.00E-64	2.00E-57
SCE1572_7008	sce_6818	4.00E-08	4.00E-08
SCE1572_7009	sce_9483	1.00E-101	1.00E-113
SCE1572_701	sce_497	0.00E+00	0.00E+00
SCE1572_7011	sce_9481	9.00E-135	3.00E-124
SCE1572_7015	sce_9479	1.00E-29	9.00E-34

SCE1572_702	sce_498	1.00E-24	3.00E-23
SCE1572_7022	sce_6228	0.00E+00	0.00E+00
SCE1572_7022	sce_6833	0.00E+00	0.00E+00
SCE1572_7022	sce_6827	0.00E+00	0.00E+00
SCE1572_7022	sce_10159	0.00E+00	0.00E+00
SCE1572_7022	sce_7513	0.00E+00	0.00E+00
SCE1572_7022	sce_7408	0.00E+00	0.00E+00
SCE1572_7022	sce_6876	0.00E+00	0.00E+00
SCE1572_7022	sce_6836	0.00E+00	0.00E+00
SCE1572_7022	sce_2543	0.00E+00	0.00E+00
SCE1572_7026	sce_5823	0.00E+00	0.00E+00
SCE1572_7027	sce_5824	0.00E+00	0.00E+00
SCE1572_7027	sce_5830	0.00E+00	0.00E+00
SCE1572_7027	sce_2940	0.00E+00	0.00E+00
SCE1572_7027	sce_5827	0.00E+00	0.00E+00
SCE1572_7027	sce_2589	0.00E+00	0.00E+00
SCE1572_7029	sce_5827	0.00E+00	0.00E+00
SCE1572_7029	sce_5830	0.00E+00	0.00E+00
SCE1572_7029	sce_5824	0.00E+00	0.00E+00
SCE1572_7029	sce_2940	0.00E+00	0.00E+00
SCE1572_7029	sce_2589	0.00E+00	0.00E+00
SCE1572_703	sce_500	1.00E-17	9.00E-31
SCE1572_7030	sce_5828	7.00E-57	7.00E-57
SCE1572_7032	sce_5830	0.00E+00	0.00E+00
SCE1572_7032	sce_5827	0.00E+00	0.00E+00
SCE1572_7032	sce_5824	0.00E+00	0.00E+00
SCE1572_7032	sce_2940	0.00E+00	0.00E+00
SCE1572_7032	sce_2589	0.00E+00	0.00E+00
SCE1572_7033	sce_5831	2.00E-63	2.00E-63
SCE1572_7034	sce_5832	2.00E-83	2.00E-70
SCE1572_7035	sce_5833	0.00E+00	0.00E+00
SCE1572_7036	sce_5834	2.00E-97	2.00E-97
SCE1572_704	sce_501	0.00E+00	0.00E+00
SCE1572_7041	sce_5839	5.00E-70	4.00E-79
SCE1572_7044	sce_9896	3.00E-106	3.00E-115
SCE1572_705	sce_502	0.00E+00	0.00E+00
SCE1572_706	sce_503	3.00E-40	9.00E-50
SCE1572_7063	sce_7667	0.00E+00	0.00E+00
SCE1572_7068	sce_5840	0.00E+00	0.00E+00
SCE1572_7069	sce_1257	9.00E-50	3.00E-54
SCE1572_707	sce_504	0.00E+00	0.00E+00
SCE1572_7072	sce_5849	0.00E+00	0.00E+00
SCE1572_7074	sce_5850	1.00E-72	1.00E-72
SCE1572_7075	sce_5851	1.00E-117	8.00E-117
SCE1572_7076	sce_5854	0.00E+00	0.00E+00
SCE1572_7079	sce_5855	6.00E-55	6.00E-55
SCE1572_708	sce_505	2.00E-92	2.00E-92
SCE1572_7080	sce_5856	0.00E+00	0.00E+00
SCE1572_7081	sce_5857	9.00E-152	4.00E-153
SCE1572_7082	sce_5858	2.00E-81	3.00E-76
SCE1572_7083	sce_5859	5.00E-72	3.00E-84
SCE1572_7084	sce_5860	1.00E-167	2.00E-159
SCE1572_7087	sce_9904	1.00E-85	3.00E-80
SCE1572_7091	sce_5861	0.00E+00	0.00E+00
SCE1572_7095	sce_5863	4.00E-45	7.00E-43
SCE1572_7096	sce_1560	0.00E+00	0.00E+00
SCE1572_7097	sce_1561	3.00E-112	3.00E-105
SCE1572_7098	sce_1562	2.00E-115	2.00E-114
SCE1572_71	sce_64	6.00E-100	2.00E-102
SCE1572_710	sce_507	2.00E-50	2.00E-50
SCE1572_7100	sce_5868	9.00E-66	3.00E-58
SCE1572_7101	sce_5869	0.00E+00	0.00E+00
SCE1572_7102	sce_5870	0.00E+00	0.00E+00
SCE1572_7104	sce_5836	0.00E+00	0.00E+00
SCE1572_7105	sce_5837	0.00E+00	0.00E+00
SCE1572_7109	sce_1435	6.00E-36	6.00E-36
SCE1572_711	sce_508	7.00E-59	4.00E-67
SCE1572_7114	sce_7551	1.00E-115	5.00E-107
SCE1572_7118	sce_9883	4.00E-77	3.00E-93
SCE1572_7122	sce_5871	0.00E+00	0.00E+00
SCE1572_7124	sce_5872	0.00E+00	0.00E+00
SCE1572_7125	sce_5874	0.00E+00	0.00E+00
SCE1572_713	sce_509	0.00E+00	0.00E+00
SCE1572_7131	sce_8424	5.00E-23	7.00E-15
SCE1572_7132	sce_3684	5.00E-85	5.00E-85
SCE1572_7133	sce_5482	0.00E+00	0.00E+00

SCE1572_7134	sce_6324	5.00E-50	3.00E-50
SCE1572_7135	sce_5876	5.00E-167	2.00E-173
SCE1572_7136	sce_5877	6.00E-130	2.00E-140
SCE1572_7143	sce_301	2.00E-69	4.00E-66
SCE1572_7144	sce_5878	4.00E-66	7.00E-74
SCE1572_7146	sce_5879	2.00E-57	1.00E-57
SCE1572_7147	sce_5880	2.00E-158	5.00E-168
SCE1572_7148	sce_5885	1.00E-110	1.00E-73
SCE1572_7149	sce_5886	4.00E-67	1.00E-67
SCE1572_7150	sce_5887	4.00E-98	2.00E-98
SCE1572_7151	sce_5889	2.00E-31	1.00E-32
SCE1572_7152	sce_5890	2.00E-126	3.00E-122
SCE1572_7153	sce_9846	2.00E-115	2.00E-128
SCE1572_7155	sce_5893	3.00E-160	1.00E-149
SCE1572_7157	sce_1355	7.00E-23	2.00E-25
SCE1572_7159	sce_5894	6.00E-59	2.00E-59
SCE1572_7161	sce_5895	3.00E-73	4.00E-73
SCE1572_7162	sce_5896	3.00E-171	3.00E-171
SCE1572_7163	sce_5897	2.00E-163	3.00E-155
SCE1572_7164	sce_3432	1.00E-28	2.00E-37
SCE1572_7170	sce_5899	0.00E+00	0.00E+00
SCE1572_7171	sce_5900	3.00E-28	3.00E-28
SCE1572_7172	sce_5901	1.00E-80	2.00E-80
SCE1572_7173	sce_5902	0.00E+00	0.00E+00
SCE1572_7175	sce_5904	0.00E+00	0.00E+00
SCE1572_7176	sce_5905	1.00E-176	1.00E-163
SCE1572_7178	sce_2175	0.00E+00	0.00E+00
SCE1572_7181	sce_6290	2.00E-18	2.00E-18
SCE1572_7182	sce_1246	2.00E-159	6.00E-160
SCE1572_7183	sce_1245	2.00E-118	2.00E-115
SCE1572_7185	sce_5906	3.00E-62	5.00E-71
SCE1572_7186	sce_5907	0.00E+00	0.00E+00
SCE1572_7187	sce_5908	0.00E+00	0.00E+00
SCE1572_7188	sce_5909	0.00E+00	0.00E+00
SCE1572_7189	sce_1882	2.00E-129	1.00E-118
SCE1572_7190	sce_1881	2.00E-122	3.00E-114
SCE1572_7191	sce_5914	5.00E-117	9.00E-118
SCE1572_7193	sce_5915	0.00E+00	0.00E+00
SCE1572_7199	sce_8384	3.00E-134	3.00E-134
SCE1572_72	sce_65	2.00E-153	6.00E-148
SCE1572_7200	sce_5918	0.00E+00	0.00E+00
SCE1572_7201	sce_5919	9.00E-139	7.00E-138
SCE1572_7206	sce_5924	6.00E-101	3.00E-101
SCE1572_7207	sce_5926	4.00E-79	2.00E-93
SCE1572_7208	sce_5920	7.00E-73	3.00E-76
SCE1572_7209	sce_5936	1.00E-146	3.00E-147
SCE1572_7210	sce_5937	3.00E-37	2.00E-35
SCE1572_7211	sce_5938	8.00E-160	1.00E-170
SCE1572_7212	sce_5939	1.00E-10	1.00E-10
SCE1572_7214	sce_5941	3.00E-105	1.00E-110
SCE1572_7216	sce_5944	2.00E-133	2.00E-139
SCE1572_7219	sce_5945	2.00E-90	9.00E-93
SCE1572_7220	sce_5946	1.00E-10	1.00E-28
SCE1572_7222	sce_5947	7.00E-154	4.00E-152
SCE1572_7223	sce_5948	0.00E+00	0.00E+00
SCE1572_7224	sce_5950	6.00E-176	6.00E-176
SCE1572_7225	sce_5951	2.00E-173	7.00E-175
SCE1572_7226	sce_5952	2.00E-129	2.00E-112
SCE1572_7227	sce_5953	3.00E-56	7.00E-66
SCE1572_7228	sce_5954	3.00E-88	3.00E-86
SCE1572_7229	sce_5955	2.00E-128	3.00E-138
SCE1572_7233	sce_8264	3.00E-66	3.00E-78
SCE1572_7234	sce_5956	2.00E-77	5.00E-75
SCE1572_7235	sce_5957	0.00E+00	0.00E+00
SCE1572_7236	sce_5958	0.00E+00	0.00E+00
SCE1572_7237	sce_5960	0.00E+00	0.00E+00
SCE1572_7238	sce_5962	0.00E+00	0.00E+00
SCE1572_7240	sce_5963	4.00E-117	1.00E-106
SCE1572_7241	sce_7661	0.00E+00	0.00E+00
SCE1572_7241	sce_6107	0.00E+00	0.00E+00
SCE1572_7241	sce_3917	0.00E+00	0.00E+00
SCE1572_7241	sce_6093	0.00E+00	0.00E+00
SCE1572_7241	sce_3003	0.00E+00	0.00E+00
SCE1572_7241	sce_6535	0.00E+00	0.00E+00
SCE1572_7241	sce_6092	0.00E+00	0.00E+00
SCE1572_7241	sce_388	0.00E+00	0.00E+00

SCE1572_7241	sce_6094	0.00E+00	0.00E+00
SCE1572_7241	sce_8602	0.00E+00	0.00E+00
SCE1572_7241	sce_6095	0.00E+00	0.00E+00
SCE1572_7241	sce_9920	0.00E+00	0.00E+00
SCE1572_7241	sce_7640	0.00E+00	0.00E+00
SCE1572_7241	sce_5835	0.00E+00	0.00E+00
SCE1572_7241	sce_10204	0.00E+00	0.00E+00
SCE1572_7241	sce_8618	0.00E+00	0.00E+00
SCE1572_7242	sce_5964	0.00E+00	0.00E+00
SCE1572_7243	sce_5965	0.00E+00	0.00E+00
SCE1572_7245	sce_5966	2.00E-47	2.00E-46
SCE1572_7246	sce_5968	6.00E-126	6.00E-126
SCE1572_7248	sce_5969	1.00E-35	1.00E-35
SCE1572_7249	sce_2378	0.00E+00	0.00E+00
SCE1572_725	sce_9985	5.00E-42	2.00E-27
SCE1572_7250	sce_2378	0.00E+00	0.00E+00
SCE1572_7252	sce_2379	6.00E-177	4.00E-171
SCE1572_7253	sce_2380	1.00E-60	9.00E-61
SCE1572_7254	sce_2382	3.00E-65	7.00E-34
SCE1572_7255	sce_5970	0.00E+00	0.00E+00
SCE1572_7256	sce_5971	1.00E-158	3.00E-177
SCE1572_7257	sce_5537	1.00E-30	4.00E-33
SCE1572_7258	sce_5972	4.00E-147	4.00E-147
SCE1572_726	sce_527	0.00E+00	0.00E+00
SCE1572_7260	sce_5973	3.00E-103	2.00E-111
SCE1572_7263	sce_5978	3.00E-97	4.00E-84
SCE1572_7265	sce_5979	0.00E+00	0.00E+00
SCE1572_7268	sce_5980	0.00E+00	0.00E+00
SCE1572_7270	sce_5982	0.00E+00	0.00E+00
SCE1572_7271	sce_6026	4.00E-68	3.00E-63
SCE1572_7272	sce_6025	1.00E-65	3.00E-73
SCE1572_7275	sce_6816	7.00E-76	1.00E-84
SCE1572_7277	sce_7693	2.00E-19	2.00E-19
SCE1572_7279	sce_629	2.00E-06	3.00E-06
SCE1572_728	sce_528	2.00E-158	1.00E-157
SCE1572_7280	sce_5983	1.00E-82	8.00E-65
SCE1572_7281	sce_5984	3.00E-79	1.00E-72
SCE1572_7282	sce_5986	7.00E-125	6.00E-129
SCE1572_7283	sce_5987	0.00E+00	0.00E+00
SCE1572_7285	sce_5988	0.00E+00	0.00E+00
SCE1572_7286	sce_5989	0.00E+00	0.00E+00
SCE1572_7287	sce_5990	3.00E-62	2.00E-62
SCE1572_7288	sce_6130	0.00E+00	0.00E+00
SCE1572_729	sce_529	3.00E-86	2.00E-81
SCE1572_7290	sce_5991	2.00E-120	2.00E-128
SCE1572_7296	sce_6071	8.00E-138	7.00E-142
SCE1572_7297	sce_6072	3.00E-34	5.00E-34
SCE1572_7298	sce_6074	0.00E+00	0.00E+00
SCE1572_7299	sce_3003	0.00E+00	0.00E+00
SCE1572_7299	sce_9920	0.00E+00	0.00E+00
SCE1572_7299	sce_6535	0.00E+00	0.00E+00
SCE1572_7299	sce_388	0.00E+00	0.00E+00
SCE1572_7299	sce_5835	0.00E+00	0.00E+00
SCE1572_7299	sce_9557	0.00E+00	0.00E+00
SCE1572_7299	sce_10204	0.00E+00	0.00E+00
SCE1572_7299	sce_7640	0.00E+00	0.00E+00
SCE1572_7299	sce_4513	0.00E+00	0.00E+00
SCE1572_7299	sce_3085	0.00E+00	0.00E+00
SCE1572_7299	sce_3917	0.00E+00	0.00E+00
SCE1572_7299	sce_6093	0.00E+00	0.00E+00
SCE1572_7299	sce_6092	0.00E+00	0.00E+00
SCE1572_7299	sce_6107	0.00E+00	0.00E+00
SCE1572_7299	sce_7661	0.00E+00	0.00E+00
SCE1572_7299	sce_8618	0.00E+00	0.00E+00
SCE1572_7299	sce_6095	0.00E+00	0.00E+00
SCE1572_7299	sce_2065	0.00E+00	0.00E+00
SCE1572_7299	sce_6094	0.00E+00	0.00E+00
SCE1572_7299	sce_7109	0.00E+00	0.00E+00
SCE1572_73	sce_66	0.00E+00	0.00E+00
SCE1572_730	sce_532	0.00E+00	0.00E+00
SCE1572_7300	sce_3004	3.00E-82	3.00E-82
SCE1572_7302	sce_2466	3.00E-09	1.00E-09
SCE1572_7303	sce_5169	1.00E-92	4.00E-95
SCE1572_7304	sce_5168	3.00E-119	1.00E-121
SCE1572_7305	sce_2493	9.00E-138	5.00E-144
SCE1572_7308	sce_10414	1.00E-14	7.00E-14

SCE1572_7309	sce_4708	0.00E+00	0.00E+00
SCE1572_7309	sce_6222	0.00E+00	0.00E+00
SCE1572_731	sce_533	2.00E-113	5.00E-116
SCE1572_7310	sce_6091	3.00E-141	5.00E-155
SCE1572_7311	sce_6095	0.00E+00	0.00E+00
SCE1572_7311	sce_6093	0.00E+00	0.00E+00
SCE1572_7311	sce_6092	0.00E+00	0.00E+00
SCE1572_7311	sce_6094	0.00E+00	0.00E+00
SCE1572_7311	sce_6107	0.00E+00	0.00E+00
SCE1572_7311	sce_3917	0.00E+00	0.00E+00
SCE1572_7311	sce_7661	0.00E+00	0.00E+00
SCE1572_7311	sce_388	0.00E+00	0.00E+00
SCE1572_7311	sce_9920	0.00E+00	0.00E+00
SCE1572_7311	sce_6535	0.00E+00	0.00E+00
SCE1572_7311	sce_4513	0.00E+00	0.00E+00
SCE1572_7311	sce_3003	0.00E+00	0.00E+00
SCE1572_7311	sce_9557	0.00E+00	0.00E+00
SCE1572_7311	sce_10204	0.00E+00	0.00E+00
SCE1572_7311	sce_8602	0.00E+00	0.00E+00
SCE1572_7311	sce_7640	0.00E+00	0.00E+00
SCE1572_7311	sce_5835	0.00E+00	0.00E+00
SCE1572_7319	sce_6109	4.00E-70	7.00E-67
SCE1572_732	sce_534	3.00E-180	8.00E-179
SCE1572_7321	sce_6110	4.00E-18	4.00E-18
SCE1572_7323	sce_6111	5.00E-38	8.00E-37
SCE1572_7325	sce_6112	6.00E-179	3.00E-178
SCE1572_7326	sce_6113	7.00E-159	1.00E-145
SCE1572_7327	sce_6114	0.00E+00	0.00E+00
SCE1572_7327	sce_6541	0.00E+00	0.00E+00
SCE1572_7329	sce_6116	2.00E-60	2.00E-55
SCE1572_733	sce_536	3.00E-121	2.00E-131
SCE1572_7330	sce_6117	0.00E+00	0.00E+00
SCE1572_7332	sce_6119	0.00E+00	0.00E+00
SCE1572_7334	sce_6120	0.00E+00	0.00E+00
SCE1572_7336	sce_6121	0.00E+00	0.00E+00
SCE1572_7337	sce_6122	0.00E+00	0.00E+00
SCE1572_7338	sce_6123	6.00E-163	7.00E-164
SCE1572_7339	sce_6124	7.00E-47	7.00E-49
SCE1572_734	sce_537	0.00E+00	0.00E+00
SCE1572_7340	sce_6125	2.00E-102	2.00E-101
SCE1572_7341	sce_6126	0.00E+00	0.00E+00
SCE1572_7342	sce_6127	0.00E+00	0.00E+00
SCE1572_7343	sce_4461	0.00E+00	0.00E+00
SCE1572_7348	sce_6131	2.00E-88	3.00E-88
SCE1572_7349	sce_6132	3.00E-58	1.00E-64
SCE1572_735	sce_538	9.00E-88	4.00E-101
SCE1572_7350	sce_6133	4.00E-56	2.00E-75
SCE1572_7351	sce_6134	5.00E-77	3.00E-54
SCE1572_7352	sce_6135	6.00E-115	2.00E-116
SCE1572_7357	sce_6139	3.00E-113	3.00E-129
SCE1572_7358	sce_6140	8.00E-137	8.00E-137
SCE1572_736	sce_539	2.00E-102	7.00E-105
SCE1572_7360	sce_6141	0.00E+00	0.00E+00
SCE1572_7361	sce_6142	6.00E-108	2.00E-90
SCE1572_7363	sce_6144	0.00E+00	0.00E+00
SCE1572_7364	sce_6145	0.00E+00	0.00E+00
SCE1572_7365	sce_2350	0.00E+00	0.00E+00
SCE1572_7366	sce_6146	6.00E-160	7.00E-163
SCE1572_7367	sce_6147	0.00E+00	0.00E+00
SCE1572_7368	sce_6148	2.00E-74	1.00E-82
SCE1572_7369	sce_6149	1.00E-30	1.00E-33
SCE1572_7370	sce_6150	0.00E+00	0.00E+00
SCE1572_7371	sce_6151	2.00E-46	1.00E-52
SCE1572_7372	sce_6153	0.00E+00	0.00E+00
SCE1572_7377	sce_6154	0.00E+00	0.00E+00
SCE1572_7379	sce_7617	7.00E-31	3.00E-31
SCE1572_738	sce_540	1.00E-171	3.00E-166
SCE1572_7380	sce_868	1.00E-179	0.00E+00
SCE1572_7384	sce_2434	9.00E-168	6.00E-161
SCE1572_7387	sce_6155	2.00E-160	2.00E-160
SCE1572_7388	sce_6156	6.00E-155	8.00E-150
SCE1572_739	sce_541	0.00E+00	0.00E+00
SCE1572_7390	sce_7829	6.00E-49	3.00E-50
SCE1572_7391	sce_7831	1.00E-149	4.00E-152
SCE1572_7393	sce_7832	5.00E-60	4.00E-60
SCE1572_7394	sce_7833	3.00E-74	3.00E-76

SCE1572_7395	sce_7834	1.00E-103	1.00E-96
SCE1572_7396	sce_6157	9.00E-92	1.00E-89
SCE1572_7397	sce_6158	5.00E-126	1.00E-125
SCE1572_7398	sce_6159	0.00E+00	0.00E+00
SCE1572_7399	sce_6161	1.00E-66	2.00E-51
SCE1572_74	sce_67	5.00E-119	4.00E-106
SCE1572_740	sce_542	3.00E-54	4.00E-42
SCE1572_7400	sce_6162	4.00E-141	9.00E-142
SCE1572_7403	sce_6163	5.00E-151	2.00E-150
SCE1572_7404	sce_6164	6.00E-67	5.00E-67
SCE1572_7405	sce_6165	8.00E-73	1.00E-72
SCE1572_7406	sce_6166	2.00E-88	2.00E-71
SCE1572_7408	sce_6167	7.00E-110	7.00E-110
SCE1572_741	sce_543	8.00E-85	1.00E-96
SCE1572_7411	sce_6169	4.00E-58	6.00E-61
SCE1572_7412	sce_6170	1.00E-165	1.00E-161
SCE1572_7413	sce_6171	0.00E+00	0.00E+00
SCE1572_7416	sce_6172	6.00E-140	8.00E-151
SCE1572_7417	sce_6173	0.00E+00	0.00E+00
SCE1572_742	sce_544	4.00E-156	4.00E-157
SCE1572_7420	sce_6175	1.00E-127	3.00E-132
SCE1572_7423	sce_6176	3.00E-39	1.00E-46
SCE1572_7424	sce_6177	2.00E-127	2.00E-127
SCE1572_7425	sce_6178	2.00E-76	2.00E-74
SCE1572_7427	sce_5086	0.00E+00	0.00E+00
SCE1572_7427	sce_5085	0.00E+00	0.00E+00
SCE1572_7427	sce_6701	0.00E+00	0.00E+00
SCE1572_7427	sce_3793	0.00E+00	0.00E+00
SCE1572_7428	sce_6179	0.00E+00	0.00E+00
SCE1572_7429	sce_6180	2.00E-153	5.00E-147
SCE1572_743	sce_545	5.00E-85	2.00E-110
SCE1572_7430	sce_3028	0.00E+00	0.00E+00
SCE1572_7431	sce_4600	5.00E-96	3.00E-109
SCE1572_7432	sce_6207	5.00E-66	5.00E-69
SCE1572_7433	sce_6208	1.00E-34	3.00E-35
SCE1572_7434	sce_6211	2.00E-43	2.00E-43
SCE1572_7435	sce_6212	1.00E-177	0.00E+00
SCE1572_7436	sce_8363	6.00E-29	2.00E-29
SCE1572_7438	sce_6218	4.00E-105	3.00E-106
SCE1572_7443	sce_5549	7.00E-66	2.00E-65
SCE1572_7446	sce_6219	2.00E-32	2.00E-32
SCE1572_7448	sce_6220	0.00E+00	0.00E+00
SCE1572_7449	sce_6221	0.00E+00	0.00E+00
SCE1572_745	sce_548	0.00E+00	0.00E+00
SCE1572_7453	sce_6235	0.00E+00	0.00E+00
SCE1572_7453	sce_2161	0.00E+00	0.00E+00
SCE1572_7453	sce_225	0.00E+00	0.00E+00
SCE1572_7453	sce_8357	0.00E+00	0.00E+00
SCE1572_7453	sce_5276	0.00E+00	0.00E+00
SCE1572_7454	sce_6238	4.00E-106	6.00E-96
SCE1572_7455	sce_6239	3.00E-159	1.00E-149
SCE1572_7456	sce_6240	0.00E+00	3.00E-174
SCE1572_7457	sce_6241	4.00E-73	8.00E-85
SCE1572_7458	sce_6242	4.00E-160	3.00E-163
SCE1572_746	sce_549	0.00E+00	0.00E+00
SCE1572_746	sce_3665	0.00E+00	0.00E+00
SCE1572_7460	sce_6244	4.00E-25	2.00E-30
SCE1572_7461	sce_6246	0.00E+00	0.00E+00
SCE1572_7462	sce_6247	4.00E-126	3.00E-126
SCE1572_7463	sce_6248	3.00E-150	1.00E-161
SCE1572_7464	sce_6249	1.00E-115	3.00E-112
SCE1572_7465	sce_6250	2.00E-107	1.00E-107
SCE1572_7467	sce_6263	4.00E-176	3.00E-176
SCE1572_7468	sce_6264	4.00E-23	5.00E-24
SCE1572_7469	sce_6265	8.00E-136	5.00E-139
SCE1572_7470	sce_6266	2.00E-118	8.00E-116
SCE1572_7472	sce_6268	8.00E-102	8.00E-102
SCE1572_7473	sce_6269	0.00E+00	0.00E+00
SCE1572_7474	sce_6270	5.00E-94	5.00E-94
SCE1572_7475	sce_6271	0.00E+00	0.00E+00
SCE1572_7477	sce_6273	3.00E-120	9.00E-136
SCE1572_7478	sce_6275	4.00E-67	5.00E-67
SCE1572_7479	sce_6276	0.00E+00	0.00E+00
SCE1572_748	sce_551	2.00E-75	8.00E-76
SCE1572_7480	sce_6278	4.00E-65	1.00E-66
SCE1572_7481	sce_6279	7.00E-12	5.00E-12

SCE1572_7482	sce_6280	8.00E-18	1.00E-24
SCE1572_7483	sce_6281	0.00E+00	0.00E+00
SCE1572_7483	sce_9625	0.00E+00	0.00E+00
SCE1572_7483	sce_5292	0.00E+00	0.00E+00
SCE1572_7485	sce_6306	0.00E+00	0.00E+00
SCE1572_7487	sce_615	0.00E+00	0.00E+00
SCE1572_749	sce_4659	4.00E-105	2.00E-102
SCE1572_7492	sce_7123	1.00E-42	8.00E-42
SCE1572_7493	sce_6083	3.00E-175	2.00E-159
SCE1572_75	sce_68	1.00E-79	1.00E-81
SCE1572_750	sce_552	0.00E+00	0.00E+00
SCE1572_7500	sce_6307	2.00E-60	1.00E-60
SCE1572_7501	sce_6309	9.00E-155	1.00E-154
SCE1572_7502	sce_6310	9.00E-92	9.00E-95
SCE1572_7503	sce_6313	9.00E-157	1.00E-156
SCE1572_7504	sce_6314	3.00E-40	1.00E-44
SCE1572_7505	sce_6315	3.00E-176	3.00E-177
SCE1572_7506	sce_8592	0.00E+00	0.00E+00
SCE1572_7506	sce_3937	0.00E+00	0.00E+00
SCE1572_7508	sce_3937	0.00E+00	0.00E+00
SCE1572_751	sce_553	1.00E-85	2.00E-84
SCE1572_7515	sce_6331	3.00E-50	5.00E-59
SCE1572_7516	sce_6332	4.00E-45	7.00E-41
SCE1572_7517	sce_6344	0.00E+00	0.00E+00
SCE1572_7518	sce_6345	0.00E+00	0.00E+00
SCE1572_7519	sce_6346	5.00E-81	5.00E-81
SCE1572_752	sce_554	7.00E-25	9.00E-29
SCE1572_7520	sce_6347	4.00E-83	1.00E-83
SCE1572_7524	sce_6348	1.00E-45	2.00E-45
SCE1572_7525	sce_6349	0.00E+00	0.00E+00
SCE1572_7527	sce_6351	6.00E-173	2.00E-177
SCE1572_7528	sce_6352	0.00E+00	0.00E+00
SCE1572_753	sce_555	7.00E-126	3.00E-126
SCE1572_7530	sce_6375	3.00E-149	9.00E-150
SCE1572_7531	sce_6373	1.00E-08	4.00E-09
SCE1572_7534	sce_6381	2.00E-21	1.00E-20
SCE1572_7535	sce_6382	0.00E+00	0.00E+00
SCE1572_7536	sce_6383	0.00E+00	0.00E+00
SCE1572_7537	sce_6401	5.00E-27	5.00E-28
SCE1572_7538	sce_6403	0.00E+00	0.00E+00
SCE1572_7539	sce_6404	2.00E-23	3.00E-32
SCE1572_754	sce_556	8.00E-168	8.00E-168
SCE1572_7540	sce_6405	3.00E-177	8.00E-176
SCE1572_7541	sce_6406	1.00E-50	7.00E-45
SCE1572_7542	sce_6407	1.00E-74	4.00E-82
SCE1572_7543	sce_6408	0.00E+00	0.00E+00
SCE1572_7544	sce_6409	7.00E-78	3.00E-95
SCE1572_7545	sce_9213	0.00E+00	0.00E+00
SCE1572_7546	sce_9212	0.00E+00	0.00E+00
SCE1572_7547	sce_9211	7.00E-158	5.00E-153
SCE1572_7548	sce_9210	5.00E-147	8.00E-154
SCE1572_7549	sce_5154	0.00E+00	0.00E+00
SCE1572_755	sce_557	4.00E-37	2.00E-33
SCE1572_7550	sce_5153	0.00E+00	0.00E+00
SCE1572_7552	sce_6410	2.00E-97	2.00E-77
SCE1572_7553	sce_6411	3.00E-66	3.00E-66
SCE1572_7554	sce_6412	1.00E-94	8.00E-106
SCE1572_7555	sce_6413	8.00E-45	2.00E-69
SCE1572_7557	sce_6415	3.00E-74	4.00E-82
SCE1572_7559	sce_3680	0.00E+00	0.00E+00
SCE1572_7560	sce_9660	3.00E-165	2.00E-178
SCE1572_7562	sce_1286	2.00E-30	5.00E-39
SCE1572_7563	sce_5995	0.00E+00	0.00E+00
SCE1572_7566	sce_6421	8.00E-62	2.00E-62
SCE1572_7567	sce_6422	3.00E-103	7.00E-68
SCE1572_7568	sce_6423	2.00E-107	3.00E-105
SCE1572_7569	sce_6424	0.00E+00	0.00E+00
SCE1572_757	sce_558	1.00E-121	1.00E-121
SCE1572_7571	sce_6425	0.00E+00	0.00E+00
SCE1572_7572	sce_6427	4.00E-29	6.00E-20
SCE1572_7573	sce_6428	2.00E-111	1.00E-109
SCE1572_7574	sce_6429	1.00E-96	5.00E-106
SCE1572_7575	sce_6430	0.00E+00	0.00E+00
SCE1572_7576	sce_6431	0.00E+00	0.00E+00
SCE1572_7577	sce_6432	4.00E-76	4.00E-76
SCE1572_7578	sce_6433	2.00E-50	2.00E-50

SCE1572_7579	sce_6435	0.00E+00	0.00E+00
SCE1572_758	sce_559	3.00E-93	1.00E-103
SCE1572_7580	sce_6436	6.00E-132	1.00E-145
SCE1572_7581	sce_6437	0.00E+00	0.00E+00
SCE1572_7581	sce_831	0.00E+00	0.00E+00
SCE1572_7582	sce_6438	2.00E-87	2.00E-94
SCE1572_7583	sce_6439	2.00E-149	2.00E-156
SCE1572_7584	sce_6440	2.00E-16	2.00E-16
SCE1572_7585	sce_6441	3.00E-46	3.00E-46
SCE1572_7586	sce_6442	9.00E-53	6.00E-51
SCE1572_7587	sce_6443	3.00E-161	3.00E-159
SCE1572_7588	sce_6444	5.00E-78	8.00E-79
SCE1572_7589	sce_6448	1.00E-138	1.00E-138
SCE1572_759	sce_560	4.00E-93	4.00E-93
SCE1572_7590	sce_6449	0.00E+00	0.00E+00
SCE1572_7591	sce_6450	0.00E+00	0.00E+00
SCE1572_7592	sce_6451	0.00E+00	0.00E+00
SCE1572_7593	sce_6452	0.00E+00	0.00E+00
SCE1572_7594	sce_6453	2.00E-43	2.00E-43
SCE1572_7595	sce_6454	6.00E-165	4.00E-165
SCE1572_7596	sce_6455	0.00E+00	8.00E-154
SCE1572_7597	sce_6456	7.00E-73	7.00E-73
SCE1572_7599	sce_6458	3.00E-51	4.00E-52
SCE1572_760	sce_561	0.00E+00	0.00E+00
SCE1572_7600	sce_6461	9.00E-124	4.00E-142
SCE1572_7601	sce_6462	6.00E-178	5.00E-176
SCE1572_7602	sce_6463	0.00E+00	0.00E+00
SCE1572_7603	sce_6464	0.00E+00	0.00E+00
SCE1572_7604	sce_6465	1.00E-64	6.00E-65
SCE1572_7606	sce_9946	1.00E-160	1.00E-175
SCE1572_7607	sce_6467	5.00E-109	6.00E-107
SCE1572_7609	sce_6470	4.00E-56	2.00E-49
SCE1572_761	sce_562	1.00E-95	3.00E-101
SCE1572_7610	sce_6471	4.00E-117	4.00E-117
SCE1572_7611	sce_6472	1.00E-61	2.00E-61
SCE1572_7612	sce_6473	0.00E+00	0.00E+00
SCE1572_7613	sce_6475	8.00E-88	6.00E-84
SCE1572_7614	sce_6476	2.00E-114	4.00E-117
SCE1572_7617	sce_6477	2.00E-134	2.00E-134
SCE1572_7618	sce_6478	5.00E-120	5.00E-120
SCE1572_7619	sce_6479	3.00E-157	3.00E-157
SCE1572_762	sce_92	0.00E+00	0.00E+00
SCE1572_7620	sce_6480	1.00E-149	9.00E-158
SCE1572_7621	sce_6481	1.00E-139	3.00E-127
SCE1572_7622	sce_6482	0.00E+00	0.00E+00
SCE1572_7623	sce_6483	1.00E-151	9.00E-144
SCE1572_7624	sce_6484	0.00E+00	0.00E+00
SCE1572_7625	sce_6486	0.00E+00	0.00E+00
SCE1572_7626	sce_6487	3.00E-78	1.00E-77
SCE1572_7627	sce_7919	1.00E-09	6.00E-10
SCE1572_7628	sce_6488	6.00E-139	4.00E-140
SCE1572_7629	sce_6489	1.00E-126	1.00E-126
SCE1572_7630	sce_6491	2.00E-56	8.00E-50
SCE1572_7631	sce_6492	2.00E-53	4.00E-56
SCE1572_7632	sce_6493	0.00E+00	0.00E+00
SCE1572_7634	sce_6494	3.00E-75	6.00E-74
SCE1572_7635	sce_6495	0.00E+00	0.00E+00
SCE1572_7636	sce_6496	1.00E-71	1.00E-81
SCE1572_7637	sce_6497	0.00E+00	0.00E+00
SCE1572_7638	sce_6498	3.00E-108	6.00E-116
SCE1572_7639	sce_6499	0.00E+00	0.00E+00
SCE1572_764	sce_563	0.00E+00	0.00E+00
SCE1572_7640	sce_6500	2.00E-72	9.00E-71
SCE1572_7641	sce_6501	0.00E+00	0.00E+00
SCE1572_7641	sce_736	0.00E+00	0.00E+00
SCE1572_7643	sce_6502	0.00E+00	1.00E-179
SCE1572_7644	sce_6504	0.00E+00	0.00E+00
SCE1572_7645	sce_6505	0.00E+00	0.00E+00
SCE1572_7646	sce_6506	0.00E+00	0.00E+00
SCE1572_7647	sce_9653	0.00E+00	0.00E+00
SCE1572_7648	sce_2926	0.00E+00	0.00E+00
SCE1572_765	sce_2573	3.00E-26	2.00E-26
SCE1572_7654	sce_8663	3.00E-12	7.00E-10
SCE1572_7655	sce_8662	1.00E-41	2.00E-24
SCE1572_7659	sce_9782	8.00E-45	2.00E-45
SCE1572_7662	sce_9807	1.00E-60	9.00E-69

SCE1572_7665	sce_1677	3.00E-127	2.00E-126
SCE1572_7667	sce_2109	2.00E-12	6.00E-13
SCE1572_767	sce_565	4.00E-147	7.00E-133
SCE1572_7677	sce_6508	0.00E+00	0.00E+00
SCE1572_7678	sce_6509	2.00E-55	2.00E-55
SCE1572_7679	sce_6510	5.00E-81	4.00E-80
SCE1572_768	sce_566	5.00E-180	1.00E-163
SCE1572_7680	sce_6511	3.00E-127	1.00E-134
SCE1572_7681	sce_6512	7.00E-129	3.00E-147
SCE1572_7682	sce_6513	1.00E-76	4.00E-82
SCE1572_7683	sce_6514	0.00E+00	0.00E+00
SCE1572_7685	sce_6515	5.00E-34	4.00E-63
SCE1572_7687	sce_6516	3.00E-117	5.00E-126
SCE1572_769	sce_567	1.00E-52	7.00E-56
SCE1572_7691	sce_6517	3.00E-71	7.00E-70
SCE1572_7692	sce_6518	6.00E-160	3.00E-173
SCE1572_7693	sce_6519	4.00E-116	3.00E-120
SCE1572_7694	sce_6520	0.00E+00	0.00E+00
SCE1572_7695	sce_6521	7.00E-83	2.00E-101
SCE1572_7696	sce_6522	2.00E-117	2.00E-120
SCE1572_7697	sce_6523	4.00E-176	1.00E-172
SCE1572_7698	sce_6524	6.00E-145	3.00E-150
SCE1572_7699	sce_6525	1.00E-124	7.00E-125
SCE1572_77	sce_69	1.00E-169	9.00E-177
SCE1572_770	sce_568	8.00E-101	8.00E-101
SCE1572_7700	sce_6526	2.00E-165	7.00E-159
SCE1572_7701	sce_6527	5.00E-27	1.00E-29
SCE1572_7702	sce_6528	0.00E+00	0.00E+00
SCE1572_7703	sce_6536	4.00E-113	2.00E-121
SCE1572_7704	sce_6537	1.00E-37	3.00E-34
SCE1572_7706	sce_6538	0.00E+00	0.00E+00
SCE1572_7707	sce_6539	0.00E+00	0.00E+00
SCE1572_7709	sce_6541	0.00E+00	0.00E+00
SCE1572_7709	sce_6114	0.00E+00	0.00E+00
SCE1572_771	sce_569	1.00E-157	2.00E-139
SCE1572_7710	sce_6542	2.00E-84	2.00E-88
SCE1572_7711	sce_6543	1.00E-71	3.00E-70
SCE1572_7712	sce_6544	3.00E-120	5.00E-153
SCE1572_7713	sce_6545	1.00E-63	5.00E-62
SCE1572_7718	sce_6546	1.00E-139	1.00E-162
SCE1572_7719	sce_6547	4.00E-97	1.00E-99
SCE1572_772	sce_570	4.00E-129	2.00E-135
SCE1572_7720	sce_6548	1.00E-139	8.00E-142
SCE1572_7723	sce_6549	4.00E-153	3.00E-147
SCE1572_7724	sce_6550	0.00E+00	0.00E+00
SCE1572_7725	sce_6551	0.00E+00	0.00E+00
SCE1572_7726	sce_6552	2.00E-59	3.00E-59
SCE1572_7727	sce_6553	0.00E+00	0.00E+00
SCE1572_7729	sce_6554	1.00E-76	1.00E-85
SCE1572_773	sce_571	2.00E-97	5.00E-100
SCE1572_7730	sce_6555	3.00E-102	1.00E-99
SCE1572_7731	sce_6556	9.00E-51	9.00E-51
SCE1572_7732	sce_6557	5.00E-82	2.00E-67
SCE1572_7733	sce_6558	8.00E-111	4.00E-102
SCE1572_7735	sce_6560	1.00E-51	1.00E-51
SCE1572_7736	sce_6561	4.00E-107	2.00E-113
SCE1572_7737	sce_6562	6.00E-51	2.00E-64
SCE1572_7738	sce_6563	2.00E-130	0.00E+00
SCE1572_774	sce_572	0.00E+00	0.00E+00
SCE1572_7740	sce_6564	0.00E+00	0.00E+00
SCE1572_7741	sce_6565	3.00E-162	1.00E-158
SCE1572_7742	sce_6566	0.00E+00	0.00E+00
SCE1572_7743	sce_6567	9.00E-138	4.00E-135
SCE1572_7744	sce_6568	1.00E-155	1.00E-155
SCE1572_7745	sce_6569	6.00E-51	2.00E-48
SCE1572_7746	sce_6571	0.00E+00	0.00E+00
SCE1572_7746	sce_8649	0.00E+00	0.00E+00
SCE1572_7747	sce_6572	5.00E-139	5.00E-139
SCE1572_775	sce_573	6.00E-54	4.00E-54
SCE1572_7758	sce_6574	3.00E-76	1.00E-89
SCE1572_7759	sce_6577	0.00E+00	0.00E+00
SCE1572_7760	sce_6578	0.00E+00	0.00E+00
SCE1572_7761	sce_6579	1.00E-51	2.00E-50
SCE1572_7765	sce_6583	1.00E-46	1.00E-46
SCE1572_7766	sce_6584	0.00E+00	0.00E+00
SCE1572_7768	sce_6585	0.00E+00	0.00E+00

SCE1572_7768	sce_900	0.00E+00	0.00E+00
SCE1572_7769	sce_6586	3.00E-134	3.00E-144
SCE1572_777	sce_574	6.00E-98	1.00E-96
SCE1572_7770	sce_6587	0.00E+00	0.00E+00
SCE1572_7771	sce_6588	1.00E-127	1.00E-115
SCE1572_7772	sce_6589	2.00E-47	7.00E-41
SCE1572_7773	sce_6590	1.00E-51	1.00E-51
SCE1572_7777	sce_512	1.00E-75	8.00E-77
SCE1572_778	sce_575	1.00E-150	3.00E-144
SCE1572_7784	sce_518	5.00E-155	7.00E-144
SCE1572_779	sce_576	0.00E+00	0.00E+00
SCE1572_7790	sce_6596	4.00E-19	3.00E-18
SCE1572_7791	sce_6597	3.00E-114	8.00E-116
SCE1572_7792	sce_6598	8.00E-74	8.00E-74
SCE1572_7793	sce_6599	0.00E+00	0.00E+00
SCE1572_7794	sce_6600	4.00E-64	8.00E-77
SCE1572_7795	sce_6601	8.00E-114	2.00E-125
SCE1572_7798	sce_6602	2.00E-08	6.00E-16
SCE1572_78	sce_70	2.00E-58	4.00E-59
SCE1572_7800	sce_6605	0.00E+00	0.00E+00
SCE1572_7801	sce_6606	0.00E+00	0.00E+00
SCE1572_7802	sce_6607	7.00E-106	4.00E-108
SCE1572_7803	sce_6608	8.00E-16	3.00E-09
SCE1572_7804	sce_6609	0.00E+00	0.00E+00
SCE1572_7805	sce_6610	0.00E+00	0.00E+00
SCE1572_7806	sce_6611	1.00E-164	5.00E-165
SCE1572_7807	sce_6612	0.00E+00	0.00E+00
SCE1572_7808	sce_6613	0.00E+00	0.00E+00
SCE1572_7810	sce_6614	1.00E-58	5.00E-58
SCE1572_7811	sce_6615	3.00E-108	3.00E-108
SCE1572_7812	sce_6616	2.00E-103	2.00E-103
SCE1572_7814	sce_6617	3.00E-47	2.00E-47
SCE1572_7815	sce_6618	0.00E+00	0.00E+00
SCE1572_7815	sce_3121	0.00E+00	0.00E+00
SCE1572_7816	sce_6619	3.00E-89	3.00E-89
SCE1572_7817	sce_6620	3.00E-96	3.00E-96
SCE1572_7818	sce_6621	5.00E-107	6.00E-123
SCE1572_7819	sce_6622	0.00E+00	0.00E+00
SCE1572_782	sce_577	5.00E-99	4.00E-97
SCE1572_7820	sce_6623	3.00E-141	1.00E-139
SCE1572_7821	sce_6624	1.00E-85	3.00E-92
SCE1572_7822	sce_6625	8.00E-162	5.00E-162
SCE1572_7823	sce_6626	8.00E-56	5.00E-56
SCE1572_7824	sce_6627	3.00E-169	0.00E+00
SCE1572_7825	sce_6628	6.00E-115	1.00E-114
SCE1572_7826	sce_6629	0.00E+00	0.00E+00
SCE1572_7827	sce_6630	9.00E-49	8.00E-38
SCE1572_7828	sce_6631	6.00E-151	6.00E-151
SCE1572_7829	sce_6632	1.00E-98	5.00E-100
SCE1572_783	sce_578	0.00E+00	0.00E+00
SCE1572_7830	sce_6633	0.00E+00	0.00E+00
SCE1572_7831	sce_6634	1.00E-154	1.00E-154
SCE1572_7832	sce_6635	5.00E-82	5.00E-82
SCE1572_7833	sce_6636	0.00E+00	0.00E+00
SCE1572_7834	sce_6637	1.00E-08	4.00E-08
SCE1572_7835	sce_6638	5.00E-92	5.00E-92
SCE1572_7836	sce_6639	5.00E-159	1.00E-151
SCE1572_7837	sce_6640	4.00E-35	4.00E-35
SCE1572_7838	sce_6641	4.00E-127	9.00E-102
SCE1572_7839	sce_6642	3.00E-87	7.00E-71
SCE1572_784	sce_579	4.00E-149	4.00E-135
SCE1572_7840	sce_6644	0.00E+00	0.00E+00
SCE1572_7841	sce_6645	3.00E-77	6.00E-77
SCE1572_7842	sce_6646	1.00E-94	1.00E-97
SCE1572_7843	sce_6647	0.00E+00	0.00E+00
SCE1572_7844	sce_6648	5.00E-92	6.00E-92
SCE1572_7845	sce_6649	3.00E-164	1.00E-159
SCE1572_7846	sce_6650	3.00E-36	5.00E-26
SCE1572_7847	sce_6651	3.00E-39	3.00E-39
SCE1572_7848	sce_6652	0.00E+00	0.00E+00
SCE1572_7849	sce_6653	0.00E+00	0.00E+00
SCE1572_785	sce_581	1.00E-165	2.00E-176
SCE1572_7850	sce_6654	0.00E+00	0.00E+00
SCE1572_7851	sce_6655	1.00E-98	1.00E-98
SCE1572_7853	sce_6656	3.00E-112	3.00E-112
SCE1572_7854	sce_6657	2.00E-109	1.00E-98

SCE1572_7855	sce_6658	2.00E-79	4.00E-72
SCE1572_7856	sce_6659	0.00E+00	0.00E+00
SCE1572_7857	sce_6660	4.00E-166	2.00E-158
SCE1572_7858	sce_6661	0.00E+00	0.00E+00
SCE1572_7862	sce_6662	3.00E-170	1.00E-174
SCE1572_7863	sce_6663	7.00E-50	7.00E-50
SCE1572_7864	sce_6664	3.00E-100	3.00E-100
SCE1572_7865	sce_6667	1.00E-151	1.00E-165
SCE1572_7866	sce_6668	0.00E+00	7.00E-180
SCE1572_7867	sce_6669	1.00E-47	1.00E-50
SCE1572_7868	sce_6670	5.00E-154	3.00E-134
SCE1572_7869	sce_6671	2.00E-161	2.00E-160
SCE1572_787	sce_582	0.00E+00	0.00E+00
SCE1572_7870	sce_6672	5.00E-87	3.00E-90
SCE1572_7871	sce_6673	4.00E-123	3.00E-134
SCE1572_7872	sce_6674	0.00E+00	0.00E+00
SCE1572_7873	sce_6675	1.00E-82	1.00E-82
SCE1572_7874	sce_6676	2.00E-52	3.00E-54
SCE1572_7875	sce_6678	6.00E-125	3.00E-129
SCE1572_7876	sce_6679	2.00E-127	2.00E-127
SCE1572_7877	sce_6680	7.00E-127	7.00E-127
SCE1572_7878	sce_6681	3.00E-131	4.00E-137
SCE1572_7879	sce_6682	0.00E+00	0.00E+00
SCE1572_788	sce_583	0.00E+00	0.00E+00
SCE1572_7880	sce_6684	3.00E-42	2.00E-42
SCE1572_7881	sce_6685	0.00E+00	0.00E+00
SCE1572_7883	sce_6688	1.00E-96	1.00E-99
SCE1572_7884	sce_6689	0.00E+00	0.00E+00
SCE1572_7884	sce_5475	0.00E+00	0.00E+00
SCE1572_7885	sce_5474	0.00E+00	0.00E+00
SCE1572_7885	sce_6690	0.00E+00	0.00E+00
SCE1572_7886	sce_6691	5.00E-48	5.00E-48
SCE1572_7887	sce_6692	0.00E+00	0.00E+00
SCE1572_7888	sce_6693	0.00E+00	0.00E+00
SCE1572_7889	sce_6694	2.00E-137	2.00E-138
SCE1572_7890	sce_6695	7.00E-55	5.00E-40
SCE1572_7893	sce_2085	1.00E-14	9.00E-15
SCE1572_7896	sce_6697	3.00E-41	3.00E-41
SCE1572_7898	sce_6698	6.00E-102	2.00E-120
SCE1572_7902	sce_6705	6.00E-72	2.00E-72
SCE1572_7903	sce_6706	9.00E-70	2.00E-71
SCE1572_7904	sce_6707	6.00E-115	2.00E-114
SCE1572_7907	sce_4677	1.00E-108	2.00E-108
SCE1572_791	sce_584	0.00E+00	0.00E+00
SCE1572_7910	sce_4620	3.00E-12	6.00E-12
SCE1572_7911	sce_1247	4.00E-70	1.00E-68
SCE1572_7912	sce_7656	2.00E-32	6.00E-29
SCE1572_7914	sce_6714	1.00E-126	6.00E-128
SCE1572_7916	sce_6716	0.00E+00	0.00E+00
SCE1572_7917	sce_6717	8.00E-153	1.00E-161
SCE1572_7918	sce_6718	0.00E+00	0.00E+00
SCE1572_7919	sce_6718	0.00E+00	0.00E+00
SCE1572_792	sce_585	3.00E-53	7.00E-48
SCE1572_7920	sce_6718	0.00E+00	0.00E+00
SCE1572_7922	sce_6719	1.00E-168	1.00E-160
SCE1572_7923	sce_6720	3.00E-55	1.00E-49
SCE1572_7924	sce_6721	0.00E+00	0.00E+00
SCE1572_7925	sce_6722	7.00E-42	4.00E-56
SCE1572_7927	sce_6723	0.00E+00	0.00E+00
SCE1572_7928	sce_6724	0.00E+00	0.00E+00
SCE1572_7929	sce_6725	3.00E-109	3.00E-109
SCE1572_793	sce_586	3.00E-108	3.00E-108
SCE1572_7930	sce_6726	3.00E-158	8.00E-158
SCE1572_7931	sce_6729	0.00E+00	0.00E+00
SCE1572_7932	sce_6730	0.00E+00	0.00E+00
SCE1572_7935	sce_6733	0.00E+00	0.00E+00
SCE1572_7936	sce_6734	1.00E-112	6.00E-126
SCE1572_7937	sce_6735	1.00E-103	2.00E-130
SCE1572_7938	sce_6736	4.00E-160	6.00E-162
SCE1572_7939	sce_6737	9.00E-120	3.00E-103
SCE1572_794	sce_587	6.00E-113	6.00E-113
SCE1572_7940	sce_6738	0.00E+00	0.00E+00
SCE1572_7941	sce_6739	5.00E-122	9.00E-123
SCE1572_7942	sce_6742	0.00E+00	0.00E+00
SCE1572_7943	sce_6743	9.00E-104	9.00E-104
SCE1572_7944	sce_6744	1.00E-58	1.00E-63

SCE1572_7949	sce_6745	2.00E-110	1.00E-121
SCE1572_795	sce_588	0.00E+00	0.00E+00
SCE1572_7950	sce_6746	4.00E-172	9.00E-179
SCE1572_7951	sce_6747	1.00E-82	1.00E-82
SCE1572_7952	sce_6748	0.00E+00	0.00E+00
SCE1572_7953	sce_6750	0.00E+00	0.00E+00
SCE1572_7955	sce_6751	2.00E-157	9.00E-160
SCE1572_7956	sce_6752	2.00E-118	5.00E-110
SCE1572_7957	sce_6753	9.00E-89	1.00E-100
SCE1572_7958	sce_4490	1.00E-74	1.00E-74
SCE1572_7959	sce_6754	2.00E-59	2.00E-59
SCE1572_796	sce_589	0.00E+00	0.00E+00
SCE1572_7960	sce_2029	9.00E-123	1.00E-122
SCE1572_7962	sce_6756	0.00E+00	0.00E+00
SCE1572_7963	sce_6757	0.00E+00	0.00E+00
SCE1572_7965	sce_6764	3.00E-33	2.00E-38
SCE1572_7966	sce_6765	6.00E-65	8.00E-63
SCE1572_7968	sce_6766	8.00E-111	3.00E-98
SCE1572_797	sce_590	0.00E+00	0.00E+00
SCE1572_7970	sce_6769	2.00E-126	1.00E-125
SCE1572_7971	sce_6770	6.00E-76	6.00E-86
SCE1572_7972	sce_6771	1.00E-76	5.00E-90
SCE1572_7973	sce_6772	1.00E-49	1.00E-51
SCE1572_7974	sce_6773	3.00E-150	6.00E-153
SCE1572_7975	sce_7456	5.00E-94	2.00E-97
SCE1572_7976	sce_7452	7.00E-29	1.00E-29
SCE1572_7978	sce_9166	1.00E-141	3.00E-145
SCE1572_798	sce_591	7.00E-125	7.00E-125
SCE1572_7984	sce_6787	2.00E-155	3.00E-151
SCE1572_7985	sce_6788	0.00E+00	0.00E+00
SCE1572_7986	sce_6789	1.00E-109	5.00E-106
SCE1572_7987	sce_6790	2.00E-99	3.00E-111
SCE1572_799	sce_592	0.00E+00	0.00E+00
SCE1572_7991	sce_6792	8.00E-102	3.00E-102
SCE1572_7993	sce_6793	6.00E-155	9.00E-179
SCE1572_7997	sce_6225	2.00E-118	5.00E-99
SCE1572_7998	sce_6226	0.00E+00	0.00E+00
SCE1572_8	sce_8	9.00E-170	1.00E-169
SCE1572_8001	sce_9566	0.00E+00	0.00E+00
SCE1572_8003	sce_9566	0.00E+00	0.00E+00
SCE1572_8003	sce_7530	0.00E+00	0.00E+00
SCE1572_8005	sce_6795	0.00E+00	0.00E+00
SCE1572_8007	sce_6796	2.00E-139	4.00E-138
SCE1572_8008	sce_6797	0.00E+00	0.00E+00
SCE1572_8009	sce_6798	3.00E-142	3.00E-142
SCE1572_801	sce_593	1.00E-127	2.00E-118
SCE1572_8010	sce_6800	2.00E-117	8.00E-119
SCE1572_8011	sce_6801	2.00E-141	7.00E-156
SCE1572_8013	sce_6802	0.00E+00	0.00E+00
SCE1572_8014	sce_6803	0.00E+00	0.00E+00
SCE1572_8015	sce_6804	3.00E-46	6.00E-46
SCE1572_8016	sce_6805	9.00E-22	2.00E-24
SCE1572_8018	sce_6807	1.00E-66	7.00E-67
SCE1572_8019	sce_1676	0.00E+00	0.00E+00
SCE1572_802	sce_594	0.00E+00	0.00E+00
SCE1572_8020	sce_6833	0.00E+00	0.00E+00
SCE1572_8020	sce_6827	0.00E+00	0.00E+00
SCE1572_8020	sce_6228	0.00E+00	0.00E+00
SCE1572_8020	sce_10159	0.00E+00	0.00E+00
SCE1572_8020	sce_7513	0.00E+00	0.00E+00
SCE1572_8020	sce_7408	0.00E+00	0.00E+00
SCE1572_8020	sce_6876	0.00E+00	0.00E+00
SCE1572_8020	sce_6836	0.00E+00	0.00E+00
SCE1572_8020	sce_2543	0.00E+00	0.00E+00
SCE1572_8020	sce_7036	0.00E+00	0.00E+00
SCE1572_8021	sce_7413	3.00E-69	3.00E-69
SCE1572_8022	sce_7414	3.00E-39	3.00E-45
SCE1572_8030	sce_304	1.00E-163	3.00E-165
SCE1572_8034	sce_9170	6.00E-53	1.00E-52
SCE1572_8035	sce_9171	2.00E-137	5.00E-142
SCE1572_8039	sce_9793	2.00E-70	3.00E-61
SCE1572_8040	sce_10359	4.00E-88	3.00E-86
SCE1572_8041	sce_6872	8.00E-80	2.00E-91
SCE1572_8042	sce_6877	6.00E-45	3.00E-49
SCE1572_8043	sce_6809	4.00E-12	4.00E-12
SCE1572_8068	sce_7404	0.00E+00	0.00E+00

SCE1572_8072	sce_9803	1.00E-36	3.00E-37
SCE1572_8073	sce_9804	2.00E-34	2.00E-29
SCE1572_8074	sce_1036	4.00E-18	2.00E-16
SCE1572_8082	sce_6847	5.00E-13	5.00E-13
SCE1572_8083	sce_6849	2.00E-31	7.00E-38
SCE1572_8089	sce_5122	6.00E-149	1.00E-160
SCE1572_809	sce_225	0.00E+00	0.00E+00
SCE1572_809	sce_6235	0.00E+00	0.00E+00
SCE1572_809	sce_2161	0.00E+00	0.00E+00
SCE1572_809	sce_8357	0.00E+00	0.00E+00
SCE1572_809	sce_5276	0.00E+00	0.00E+00
SCE1572_8090	sce_5121	0.00E+00	0.00E+00
SCE1572_8091	sce_5118	2.00E-50	8.00E-50
SCE1572_8092	sce_5117	4.00E-45	1.00E-51
SCE1572_8093	sce_5116	0.00E+00	0.00E+00
SCE1572_8094	sce_5115	3.00E-133	1.00E-135
SCE1572_8095	sce_5114	6.00E-125	6.00E-125
SCE1572_8096	sce_5113	6.00E-72	6.00E-72
SCE1572_8097	sce_5112	0.00E+00	0.00E+00
SCE1572_8098	sce_9043	6.00E-26	9.00E-34
SCE1572_8099	sce_9044	0.00E+00	0.00E+00
SCE1572_810	sce_6107	0.00E+00	0.00E+00
SCE1572_810	sce_3917	0.00E+00	0.00E+00
SCE1572_810	sce_6093	0.00E+00	0.00E+00
SCE1572_810	sce_6094	0.00E+00	0.00E+00
SCE1572_810	sce_6092	0.00E+00	0.00E+00
SCE1572_810	sce_7661	0.00E+00	0.00E+00
SCE1572_810	sce_6095	0.00E+00	0.00E+00
SCE1572_810	sce_2065	0.00E+00	0.00E+00
SCE1572_810	sce_8618	0.00E+00	0.00E+00
SCE1572_8100	sce_5110	0.00E+00	0.00E+00
SCE1572_8115	sce_5109	2.00E-100	2.00E-101
SCE1572_8126	sce_5107	0.00E+00	0.00E+00
SCE1572_8127	sce_9045	0.00E+00	0.00E+00
SCE1572_8133	sce_5552	2.00E-23	7.00E-23
SCE1572_8137	sce_861	5.00E-10	1.00E-09
SCE1572_8146	sce_3042	4.00E-52	6.00E-47
SCE1572_8176	sce_5106	6.00E-81	1.00E-93
SCE1572_8190	sce_4070	4.00E-147	2.00E-147
SCE1572_8203	sce_6891	7.00E-28	3.00E-27
SCE1572_8206	sce_8351	3.00E-130	2.00E-143
SCE1572_8207	sce_8350	1.00E-56	2.00E-60
SCE1572_8208	sce_8348	5.00E-17	7.00E-18
SCE1572_8209	sce_8347	0.00E+00	0.00E+00
SCE1572_8209	sce_4610	0.00E+00	0.00E+00
SCE1572_8210	sce_8346	6.00E-110	7.00E-117
SCE1572_8211	sce_8345	0.00E+00	0.00E+00
SCE1572_8212	sce_8344	4.00E-54	8.00E-43
SCE1572_8213	sce_8343	0.00E+00	0.00E+00
SCE1572_8214	sce_8342	0.00E+00	0.00E+00
SCE1572_8220	sce_4907	3.00E-52	1.00E-48
SCE1572_8222	sce_7070	5.00E-169	6.00E-175
SCE1572_8225	sce_6785	6.00E-86	1.00E-96
SCE1572_8226	sce_6895	1.00E-87	4.00E-101
SCE1572_8227	sce_6896	3.00E-125	1.00E-123
SCE1572_8228	sce_6897	0.00E+00	0.00E+00
SCE1572_8229	sce_6899	2.00E-121	2.00E-142
SCE1572_823	sce_631	4.00E-68	8.00E-69
SCE1572_8230	sce_6900	5.00E-156	2.00E-167
SCE1572_8231	sce_6901	0.00E+00	0.00E+00
SCE1572_8232	sce_6902	2.00E-78	5.00E-74
SCE1572_8233	sce_6905	1.00E-175	1.00E-167
SCE1572_8235	sce_6906	6.00E-36	2.00E-29
SCE1572_8236	sce_6907	3.00E-74	2.00E-74
SCE1572_8237	sce_6908	1.00E-66	5.00E-62
SCE1572_8238	sce_6909	1.00E-96	4.00E-97
SCE1572_8239	sce_6910	5.00E-132	7.00E-136
SCE1572_824	sce_5835	0.00E+00	0.00E+00
SCE1572_824	sce_10204	0.00E+00	0.00E+00
SCE1572_824	sce_388	0.00E+00	0.00E+00
SCE1572_824	sce_7640	0.00E+00	0.00E+00
SCE1572_824	sce_4513	0.00E+00	0.00E+00
SCE1572_824	sce_3085	0.00E+00	0.00E+00
SCE1572_824	sce_7109	0.00E+00	0.00E+00
SCE1572_824	sce_3003	0.00E+00	0.00E+00
SCE1572_824	sce_9557	0.00E+00	0.00E+00

SCE1572_824	sce_6535	0.00E+00	0.00E+00
SCE1572_824	sce_6092	0.00E+00	0.00E+00
SCE1572_824	sce_7661	0.00E+00	0.00E+00
SCE1572_8240	sce_6911	8.00E-103	3.00E-113
SCE1572_8241	sce_6912	0.00E+00	0.00E+00
SCE1572_8242	sce_6913	4.00E-44	2.00E-39
SCE1572_8243	sce_6914	1.00E-169	1.00E-169
SCE1572_8244	sce_6915	2.00E-95	2.00E-95
SCE1572_8245	sce_6916	0.00E+00	0.00E+00
SCE1572_8246	sce_6917	1.00E-73	3.00E-73
SCE1572_8247	sce_6918	4.00E-107	2.00E-102
SCE1572_8248	sce_6919	4.00E-77	2.00E-85
SCE1572_8249	sce_6920	0.00E+00	0.00E+00
SCE1572_825	sce_621	0.00E+00	0.00E+00
SCE1572_8250	sce_6921	0.00E+00	0.00E+00
SCE1572_8251	sce_6922	2.00E-45	5.00E-71
SCE1572_8252	sce_6923	0.00E+00	0.00E+00
SCE1572_8253	sce_6924	3.00E-157	0.00E+00
SCE1572_8254	sce_6925	3.00E-133	1.00E-139
SCE1572_8255	sce_6926	0.00E+00	0.00E+00
SCE1572_8256	sce_6927	3.00E-79	9.00E-75
SCE1572_8257	sce_6928	3.00E-108	7.00E-108
SCE1572_8258	sce_6929	2.00E-118	2.00E-118
SCE1572_8259	sce_6930	0.00E+00	0.00E+00
SCE1572_826	sce_622	0.00E+00	0.00E+00
SCE1572_8260	sce_6931	4.00E-136	2.00E-154
SCE1572_8261	sce_6932	2.00E-110	1.00E-124
SCE1572_8262	sce_6933	0.00E+00	0.00E+00
SCE1572_8263	sce_6934	0.00E+00	0.00E+00
SCE1572_8264	sce_6935	2.00E-104	1.00E-103
SCE1572_8265	sce_6936	2.00E-69	8.00E-87
SCE1572_8266	sce_6937	0.00E+00	0.00E+00
SCE1572_8268	sce_6317	3.00E-11	9.00E-11
SCE1572_8269	sce_6318	0.00E+00	0.00E+00
SCE1572_827	sce_623	4.00E-106	1.00E-112
SCE1572_8270	sce_6319	0.00E+00	0.00E+00
SCE1572_8271	sce_6940	1.00E-136	8.00E-111
SCE1572_8272	sce_6941	3.00E-88	3.00E-89
SCE1572_8273	sce_6942	1.00E-98	1.00E-98
SCE1572_8274	sce_7920	4.00E-19	4.00E-33
SCE1572_8275	sce_6944	0.00E+00	5.00E-107
SCE1572_8276	sce_6945	6.00E-114	9.00E-113
SCE1572_8277	sce_6946	6.00E-87	8.00E-85
SCE1572_8278	sce_6947	3.00E-149	4.00E-158
SCE1572_8279	sce_6948	3.00E-72	1.00E-75
SCE1572_828	sce_624	4.00E-42	1.00E-43
SCE1572_8280	sce_6949	0.00E+00	0.00E+00
SCE1572_8281	sce_6950	2.00E-169	4.00E-169
SCE1572_8282	sce_6951	0.00E+00	0.00E+00
SCE1572_8283	sce_6316	1.00E-49	5.00E-43
SCE1572_8284	sce_611	3.00E-07	8.00E-13
SCE1572_8285	sce_613	2.00E-54	6.00E-58
SCE1572_8286	sce_6953	9.00E-84	1.00E-83
SCE1572_8287	sce_6954	1.00E-161	1.00E-166
SCE1572_8289	sce_6053	3.00E-25	5.00E-31
SCE1572_829	sce_625	3.00E-83	5.00E-86
SCE1572_8291	sce_9526	7.00E-12	3.00E-13
SCE1572_8294	sce_6979	7.00E-91	6.00E-95
SCE1572_8295	sce_6980	4.00E-115	4.00E-115
SCE1572_8296	sce_6981	2.00E-105	4.00E-98
SCE1572_8297	sce_6982	0.00E+00	0.00E+00
SCE1572_8298	sce_6983	0.00E+00	0.00E+00
SCE1572_830	sce_626	7.00E-66	2.00E-67
SCE1572_8301	sce_6985	0.00E+00	0.00E+00
SCE1572_8302	sce_6986	7.00E-83	1.00E-73
SCE1572_8303	sce_6987	1.00E-43	1.00E-53
SCE1572_8304	sce_6988	3.00E-64	1.00E-68
SCE1572_8305	sce_6989	2.00E-106	2.00E-106
SCE1572_8306	sce_6990	4.00E-26	4.00E-26
SCE1572_8307	sce_1129	7.00E-16	1.00E-16
SCE1572_8309	sce_6991	1.00E-124	5.00E-150
SCE1572_8310	sce_6992	4.00E-159	2.00E-160
SCE1572_8311	sce_6993	0.00E+00	1.00E-104
SCE1572_8312	sce_6994	4.00E-93	4.00E-93
SCE1572_8313	sce_6995	1.00E-172	2.00E-169
SCE1572_8314	sce_6996	0.00E+00	0.00E+00

SCE1572_8315	sce_6997	2.00E-60	2.00E-71
SCE1572_8316	sce_6998	2.00E-165	4.00E-173
SCE1572_8317	sce_6999	2.00E-111	2.00E-120
SCE1572_8318	sce_7000	7.00E-156	4.00E-133
SCE1572_8319	sce_7002	0.00E+00	0.00E+00
SCE1572_8320	sce_7003	3.00E-47	2.00E-61
SCE1572_8321	sce_7004	0.00E+00	0.00E+00
SCE1572_8322	sce_7006	1.00E-105	4.00E-105
SCE1572_8323	sce_7007	3.00E-118	3.00E-118
SCE1572_8324	sce_7008	2.00E-127	7.00E-118
SCE1572_8325	sce_7009	0.00E+00	1.00E-166
SCE1572_8326	sce_7010	0.00E+00	0.00E+00
SCE1572_8327	sce_7011	0.00E+00	2.00E-180
SCE1572_8329	sce_7012	0.00E+00	0.00E+00
SCE1572_8330	sce_7013	0.00E+00	0.00E+00
SCE1572_8331	sce_7014	9.00E-148	4.00E-150
SCE1572_8332	sce_7015	6.00E-85	1.00E-85
SCE1572_8333	sce_7016	6.00E-48	6.00E-48
SCE1572_8336	sce_1676	0.00E+00	0.00E+00
SCE1572_8337	sce_304	2.00E-155	3.00E-165
SCE1572_8338	sce_9167	7.00E-22	1.00E-21
SCE1572_8343	sce_3174	8.00E-28	2.00E-18
SCE1572_8347	sce_9482	5.00E-100	7.00E-129
SCE1572_8349	sce_9480	2.00E-49	2.00E-50
SCE1572_835	sce_633	6.00E-28	5.00E-29
SCE1572_8355	sce_6226	0.00E+00	0.00E+00
SCE1572_836	sce_634	0.00E+00	0.00E+00
SCE1572_8367	sce_2167	1.00E-126	2.00E-121
SCE1572_8368	sce_2165	4.00E-124	7.00E-110
SCE1572_8369	sce_7077	5.00E-151	8.00E-156
SCE1572_8370	sce_7078	1.00E-96	2.00E-112
SCE1572_8371	sce_7079	5.00E-84	1.00E-77
SCE1572_8372	sce_7080	7.00E-60	1.00E-59
SCE1572_8373	sce_7085	0.00E+00	0.00E+00
SCE1572_8374	sce_7086	6.00E-83	6.00E-83
SCE1572_8375	sce_7087	5.00E-93	3.00E-86
SCE1572_8378	sce_7088	2.00E-116	1.00E-127
SCE1572_8379	sce_7089	2.00E-108	2.00E-90
SCE1572_838	sce_635	1.00E-122	2.00E-108
SCE1572_8380	sce_7090	4.00E-43	9.00E-45
SCE1572_8381	sce_7144	0.00E+00	0.00E+00
SCE1572_8385	sce_8592	0.00E+00	0.00E+00
SCE1572_8385	sce_3937	0.00E+00	0.00E+00
SCE1572_8386	sce_1676	0.00E+00	0.00E+00
SCE1572_8388	sce_7378	3.00E-73	2.00E-86
SCE1572_8389	sce_8819	3.00E-73	1.00E-76
SCE1572_839	sce_636	2.00E-65	7.00E-57
SCE1572_8391	sce_7154	0.00E+00	0.00E+00
SCE1572_8391	sce_5403	0.00E+00	0.00E+00
SCE1572_8391	sce_7969	0.00E+00	0.00E+00
SCE1572_8391	sce_5226	0.00E+00	0.00E+00
SCE1572_8391	sce_1803	0.00E+00	0.00E+00
SCE1572_8391	sce_9665	0.00E+00	0.00E+00
SCE1572_8391	sce_5751	0.00E+00	0.00E+00
SCE1572_8391	sce_4073	0.00E+00	0.00E+00
SCE1572_8391	sce_5746	0.00E+00	0.00E+00
SCE1572_8391	sce_2053	0.00E+00	0.00E+00
SCE1572_8391	sce_9954	0.00E+00	0.00E+00
SCE1572_8391	sce_9757	0.00E+00	0.00E+00
SCE1572_8391	sce_3750	0.00E+00	0.00E+00
SCE1572_8391	sce_6712	0.00E+00	0.00E+00
SCE1572_8394	sce_7155	0.00E+00	0.00E+00
SCE1572_8395	sce_7156	0.00E+00	0.00E+00
SCE1572_8396	sce_7157	2.00E-45	2.00E-52
SCE1572_8397	sce_7158	0.00E+00	0.00E+00
SCE1572_8399	sce_7159	0.00E+00	0.00E+00
SCE1572_84	sce_71	4.00E-54	3.00E-65
SCE1572_840	sce_637	0.00E+00	0.00E+00
SCE1572_8400	sce_7160	0.00E+00	0.00E+00
SCE1572_8401	sce_7161	0.00E+00	0.00E+00
SCE1572_8402	sce_7162	2.00E-168	2.00E-168
SCE1572_8403	sce_7163	0.00E+00	0.00E+00
SCE1572_8405	sce_7164	1.00E-63	1.00E-63
SCE1572_8406	sce_7165	0.00E+00	3.00E-146
SCE1572_8407	sce_7166	4.00E-40	1.00E-49
SCE1572_8408	sce_7167	0.00E+00	0.00E+00

SCE1572_841	sce_5488	2.00E-170	1.00E-168
SCE1572_8410	sce_7169	1.00E-108	2.00E-110
SCE1572_8411	sce_7170	2.00E-46	1.00E-47
SCE1572_8412	sce_7171	0.00E+00	0.00E+00
SCE1572_8413	sce_7172	5.00E-112	2.00E-119
SCE1572_8414	sce_7173	0.00E+00	0.00E+00
SCE1572_8415	sce_7176	0.00E+00	0.00E+00
SCE1572_8416	sce_7177	6.00E-102	4.00E-110
SCE1572_8417	sce_7178	7.00E-152	3.00E-135
SCE1572_8418	sce_7179	4.00E-79	2.00E-82
SCE1572_8420	sce_7180	1.00E-66	1.00E-66
SCE1572_8421	sce_7181	4.00E-178	3.00E-153
SCE1572_8422	sce_7182	4.00E-132	2.00E-136
SCE1572_8423	sce_7183	0.00E+00	0.00E+00
SCE1572_8425	sce_7186	6.00E-66	4.00E-66
SCE1572_8427	sce_7187	5.00E-12	5.00E-12
SCE1572_8428	sce_7189	4.00E-46	1.00E-32
SCE1572_8429	sce_7190	2.00E-178	0.00E+00
SCE1572_843	sce_639	0.00E+00	0.00E+00
SCE1572_8431	sce_7191	2.00E-91	2.00E-91
SCE1572_8432	sce_7192	8.00E-35	1.00E-37
SCE1572_8434	sce_7193	0.00E+00	0.00E+00
SCE1572_8436	sce_7196	1.00E-169	7.00E-166
SCE1572_8438	sce_7197	5.00E-107	2.00E-107
SCE1572_8439	sce_7198	4.00E-112	1.00E-111
SCE1572_844	sce_640	0.00E+00	0.00E+00
SCE1572_8440	sce_7199	1.00E-146	3.00E-138
SCE1572_8441	sce_7201	1.00E-177	1.00E-177
SCE1572_8442	sce_7202	1.00E-54	1.00E-59
SCE1572_8443	sce_7203	6.00E-83	8.00E-76
SCE1572_8444	sce_7204	2.00E-67	3.00E-60
SCE1572_8445	sce_7205	4.00E-37	7.00E-49
SCE1572_8448	sce_3793	0.00E+00	0.00E+00
SCE1572_8448	sce_7069	0.00E+00	0.00E+00
SCE1572_8448	sce_5086	0.00E+00	0.00E+00
SCE1572_8448	sce_5085	0.00E+00	0.00E+00
SCE1572_8448	sce_6701	0.00E+00	0.00E+00
SCE1572_8449	sce_7207	1.00E-71	2.00E-77
SCE1572_8450	sce_7208	2.00E-111	4.00E-105
SCE1572_8451	sce_7211	2.00E-96	6.00E-102
SCE1572_8452	sce_7212	7.00E-66	1.00E-72
SCE1572_8453	sce_7213	1.00E-55	3.00E-59
SCE1572_8454	sce_7214	1.00E-117	5.00E-128
SCE1572_8455	sce_7215	2.00E-122	4.00E-137
SCE1572_8456	sce_7216	2.00E-107	4.00E-118
SCE1572_8457	sce_7217	0.00E+00	0.00E+00
SCE1572_8458	sce_7218	0.00E+00	0.00E+00
SCE1572_8459	sce_7219	1.00E-84	3.00E-93
SCE1572_8460	sce_7220	4.00E-136	1.00E-124
SCE1572_8461	sce_7221	1.00E-34	1.00E-34
SCE1572_8462	sce_7222	1.00E-76	5.00E-82
SCE1572_8463	sce_7224	0.00E+00	0.00E+00
SCE1572_8464	sce_7225	6.00E-15	6.00E-15
SCE1572_8466	sce_7226	5.00E-70	3.00E-68
SCE1572_8467	sce_7227	7.00E-56	5.00E-73
SCE1572_8468	sce_7228	0.00E+00	0.00E+00
SCE1572_8469	sce_7230	4.00E-11	3.00E-12
SCE1572_847	sce_4968	0.00E+00	0.00E+00
SCE1572_8470	sce_7231	1.00E-159	2.00E-168
SCE1572_8471	sce_7232	0.00E+00	0.00E+00
SCE1572_8472	sce_7234	5.00E-93	6.00E-69
SCE1572_8473	sce_7236	7.00E-75	4.00E-74
SCE1572_8474	sce_7237	0.00E+00	0.00E+00
SCE1572_8476	sce_7238	5.00E-114	3.00E-124
SCE1572_8477	sce_7239	0.00E+00	0.00E+00
SCE1572_8477	sce_9431	0.00E+00	0.00E+00
SCE1572_8478	sce_7243	1.00E-44	3.00E-59
SCE1572_8479	sce_7244	1.00E-140	6.00E-155
SCE1572_848	sce_4641	0.00E+00	0.00E+00
SCE1572_848	sce_4638	0.00E+00	0.00E+00
SCE1572_848	sce_3575	0.00E+00	0.00E+00
SCE1572_848	sce_3577	0.00E+00	0.00E+00
SCE1572_848	sce_3580	0.00E+00	0.00E+00
SCE1572_8480	sce_7245	0.00E+00	0.00E+00
SCE1572_8481	sce_7246	7.00E-66	4.00E-73
SCE1572_8482	sce_7248	8.00E-35	8.00E-35

SCE1572_8483	sce_7249	0.00E+00	0.00E+00
SCE1572_8484	sce_7251	5.00E-39	5.00E-46
SCE1572_8485	sce_7252	3.00E-121	2.00E-166
SCE1572_8488	sce_7254	0.00E+00	0.00E+00
SCE1572_8489	sce_7256	2.00E-123	1.00E-131
SCE1572_849	sce_4638	0.00E+00	0.00E+00
SCE1572_849	sce_4641	0.00E+00	0.00E+00
SCE1572_849	sce_4640	0.00E+00	0.00E+00
SCE1572_8490	sce_7257	3.00E-154	1.00E-149
SCE1572_8491	sce_7258	1.00E-106	9.00E-98
SCE1572_8492	sce_7260	0.00E+00	0.00E+00
SCE1572_8493	sce_7261	2.00E-73	4.00E-76
SCE1572_8494	sce_7262	7.00E-112	6.00E-83
SCE1572_8495	sce_3750	0.00E+00	0.00E+00
SCE1572_8495	sce_5229	0.00E+00	0.00E+00
SCE1572_8495	sce_6712	0.00E+00	0.00E+00
SCE1572_85	sce_73	0.00E+00	0.00E+00
SCE1572_850	sce_3577	0.00E+00	0.00E+00
SCE1572_850	sce_3575	0.00E+00	0.00E+00
SCE1572_8503	sce_4101	2.00E-37	7.00E-38
SCE1572_8504	sce_4100	2.00E-116	9.00E-124
SCE1572_8505	sce_4099	1.00E-98	1.00E-105
SCE1572_8506	sce_4098	1.00E-82	7.00E-91
SCE1572_8507	sce_7263	1.00E-109	7.00E-108
SCE1572_8509	sce_9501	2.00E-164	0.00E+00
SCE1572_851	sce_3575	0.00E+00	0.00E+00
SCE1572_851	sce_3576	0.00E+00	8.00E-172
SCE1572_851	sce_3580	0.00E+00	0.00E+00
SCE1572_851	sce_3577	0.00E+00	0.00E+00
SCE1572_851	sce_3579	0.00E+00	0.00E+00
SCE1572_8510	sce_8461	2.00E-67	2.00E-67
SCE1572_8511	sce_9502	2.00E-153	2.00E-153
SCE1572_8517	sce_10363	5.00E-113	9.00E-111
SCE1572_8518	sce_7264	5.00E-129	5.00E-129
SCE1572_8519	sce_7265	2.00E-39	5.00E-39
SCE1572_8520	sce_7266	8.00E-55	4.00E-67
SCE1572_8522	sce_7267	0.00E+00	0.00E+00
SCE1572_8524	sce_7268	1.00E-176	2.00E-147
SCE1572_8525	sce_7269	9.00E-50	9.00E-50
SCE1572_8526	sce_7270	2.00E-73	5.00E-66
SCE1572_8528	sce_7272	2.00E-173	4.00E-174
SCE1572_8529	sce_7273	0.00E+00	0.00E+00
SCE1572_8530	sce_7274	3.00E-169	1.00E-164
SCE1572_8531	sce_7275	6.00E-100	3.00E-107
SCE1572_8533	sce_7276	5.00E-173	2.00E-147
SCE1572_8534	sce_7277	3.00E-165	4.00E-165
SCE1572_8535	sce_7278	2.00E-173	2.00E-173
SCE1572_8536	sce_7279	1.00E-107	2.00E-119
SCE1572_8537	sce_7280	1.00E-169	1.00E-178
SCE1572_8538	sce_7281	1.00E-172	1.00E-171
SCE1572_8539	sce_7282	7.00E-116	1.00E-118
SCE1572_8540	sce_7283	0.00E+00	0.00E+00
SCE1572_8541	sce_7285	3.00E-96	3.00E-96
SCE1572_8542	sce_7286	3.00E-90	5.00E-99
SCE1572_8543	sce_7288	2.00E-146	1.00E-146
SCE1572_8545	sce_3427	0.00E+00	0.00E+00
SCE1572_8546	sce_3426	0.00E+00	0.00E+00
SCE1572_8547	sce_3425	2.00E-128	2.00E-135
SCE1572_8548	sce_3424	0.00E+00	0.00E+00
SCE1572_8549	sce_7289	0.00E+00	0.00E+00
SCE1572_8550	sce_7290	7.00E-146	3.00E-152
SCE1572_8551	sce_7291	8.00E-173	5.00E-166
SCE1572_8552	sce_7292	4.00E-75	4.00E-72
SCE1572_8553	sce_7293	3.00E-94	1.00E-91
SCE1572_8554	sce_7294	0.00E+00	0.00E+00
SCE1572_8555	sce_7295	3.00E-54	3.00E-54
SCE1572_8556	sce_7296	2.00E-123	8.00E-147
SCE1572_8557	sce_7297	0.00E+00	0.00E+00
SCE1572_8558	sce_7298	0.00E+00	0.00E+00
SCE1572_8560	sce_6041	3.00E-85	3.00E-85
SCE1572_8561	sce_7304	0.00E+00	0.00E+00
SCE1572_8561	sce_6101	0.00E+00	0.00E+00
SCE1572_8565	sce_4641	0.00E+00	0.00E+00
SCE1572_8566	sce_7306	2.00E-86	4.00E-82
SCE1572_8567	sce_7307	0.00E+00	0.00E+00
SCE1572_8568	sce_7308	4.00E-86	4.00E-88

SCE1572_8578	sce_1676	0.00E+00	0.00E+00
SCE1572_8581	sce_9566	0.00E+00	0.00E+00
SCE1572_8581	sce_7530	0.00E+00	0.00E+00
SCE1572_8583	sce_9567	0.00E+00	0.00E+00
SCE1572_8583	sce_7528	0.00E+00	5.00E-175
SCE1572_8585	sce_7312	7.00E-56	4.00E-58
SCE1572_8588	sce_7314	1.00E-107	2.00E-107
SCE1572_8589	sce_7315	2.00E-67	6.00E-67
SCE1572_8590	sce_7317	2.00E-13	6.00E-20
SCE1572_8594	sce_6282	0.00E+00	0.00E+00
SCE1572_860	sce_3570	3.00E-10	3.00E-10
SCE1572_8601	sce_8200	9.00E-22	2.00E-22
SCE1572_8603	sce_7319	3.00E-167	2.00E-167
SCE1572_8604	sce_7320	0.00E+00	0.00E+00
SCE1572_8605	sce_7321	6.00E-101	2.00E-100
SCE1572_8607	sce_7322	0.00E+00	0.00E+00
SCE1572_8608	sce_7323	3.00E-53	1.00E-57
SCE1572_861	sce_3567	2.00E-35	2.00E-35
SCE1572_8610	sce_7325	2.00E-161	3.00E-161
SCE1572_8611	sce_7326	0.00E+00	0.00E+00
SCE1572_8613	sce_7332	8.00E-126	9.00E-126
SCE1572_8614	sce_7334	2.00E-117	8.00E-97
SCE1572_8615	sce_7335	0.00E+00	0.00E+00
SCE1572_8616	sce_7336	3.00E-136	3.00E-134
SCE1572_8617	sce_7337	4.00E-118	5.00E-121
SCE1572_8618	sce_7338	2.00E-158	8.00E-166
SCE1572_8619	sce_7339	4.00E-61	3.00E-55
SCE1572_8620	sce_7341	5.00E-76	8.00E-74
SCE1572_8621	sce_7343	0.00E+00	0.00E+00
SCE1572_8622	sce_7344	3.00E-72	7.00E-68
SCE1572_8623	sce_7345	3.00E-112	1.00E-117
SCE1572_8624	sce_7346	2.00E-24	2.00E-31
SCE1572_8625	sce_7347	0.00E+00	0.00E+00
SCE1572_8627	sce_7348	1.00E-125	5.00E-118
SCE1572_8628	sce_7349	2.00E-115	2.00E-115
SCE1572_8629	sce_6206	2.00E-48	2.00E-44
SCE1572_8630	sce_7350	3.00E-55	3.00E-39
SCE1572_8632	sce_7352	4.00E-61	9.00E-61
SCE1572_8635	sce_4902	1.00E-62	5.00E-58
SCE1572_8637	sce_7353	1.00E-180	0.00E+00
SCE1572_8638	sce_7355	3.00E-47	5.00E-52
SCE1572_8639	sce_7358	0.00E+00	4.00E-172
SCE1572_864	sce_3568	5.00E-105	1.00E-104
SCE1572_8640	sce_7359	3.00E-105	9.00E-107
SCE1572_8641	sce_7360	5.00E-108	6.00E-106
SCE1572_8643	sce_7362	4.00E-98	6.00E-97
SCE1572_8644	sce_7363	7.00E-149	7.00E-146
SCE1572_8646	sce_7364	9.00E-55	2.00E-47
SCE1572_8650	sce_7366	4.00E-161	5.00E-163
SCE1572_8652	sce_7367	1.00E-149	1.00E-127
SCE1572_8653	sce_7368	2.00E-127	1.00E-140
SCE1572_8654	sce_7369	0.00E+00	0.00E+00
SCE1572_8655	sce_7370	0.00E+00	0.00E+00
SCE1572_8656	sce_7371	5.00E-67	7.00E-68
SCE1572_8657	sce_7372	1.00E-28	1.00E-28
SCE1572_8658	sce_7373	9.00E-82	2.00E-80
SCE1572_8659	sce_7374	3.00E-51	5.00E-48
SCE1572_8661	sce_7375	0.00E+00	0.00E+00
SCE1572_8663	sce_7393	2.00E-109	2.00E-109
SCE1572_8664	sce_7395	2.00E-59	1.00E-65
SCE1572_8668	sce_2495	2.00E-71	1.00E-61
SCE1572_8669	sce_6970	6.00E-17	6.00E-17
SCE1572_867	sce_641	2.00E-98	2.00E-96
SCE1572_8671	sce_6971	1.00E-19	2.00E-25
SCE1572_8672	sce_3730	9.00E-66	2.00E-76
SCE1572_8674	sce_2613	7.00E-67	1.00E-63
SCE1572_8676	sce_7073	1.00E-28	2.00E-28
SCE1572_868	sce_642	3.00E-180	0.00E+00
SCE1572_8680	sce_7433	3.00E-118	3.00E-118
SCE1572_8681	sce_3735	4.00E-103	2.00E-108
SCE1572_8682	sce_6962	4.00E-11	9.00E-15
SCE1572_8684	sce_1255	1.00E-30	1.00E-30
SCE1572_8685	sce_7426	1.00E-165	1.00E-165
SCE1572_8687	sce_7428	3.00E-84	9.00E-90
SCE1572_8688	sce_4940	4.00E-106	2.00E-105
SCE1572_8689	sce_8360	5.00E-79	4.00E-76

SCE1572_8691	sce_8694	0.00E+00	0.00E+00
SCE1572_8691	sce_9974	0.00E+00	0.00E+00
SCE1572_8691	sce_9973	0.00E+00	0.00E+00
SCE1572_8691	sce_2645	0.00E+00	0.00E+00
SCE1572_8694	sce_7435	0.00E+00	0.00E+00
SCE1572_8695	sce_7436	1.00E-179	2.00E-169
SCE1572_8698	sce_7465	0.00E+00	0.00E+00
SCE1572_8698	sce_774	0.00E+00	0.00E+00
SCE1572_8698	sce_1723	0.00E+00	0.00E+00
SCE1572_8698	sce_5787	0.00E+00	0.00E+00
SCE1572_8698	sce_9954	0.00E+00	0.00E+00
SCE1572_8698	sce_5229	0.00E+00	0.00E+00
SCE1572_8698	sce_6712	0.00E+00	0.00E+00
SCE1572_8698	sce_3750	0.00E+00	0.00E+00
SCE1572_87	sce_74	2.00E-102	9.00E-97
SCE1572_870	sce_645	6.00E-100	2.00E-94
SCE1572_8700	sce_7466	3.00E-150	9.00E-152
SCE1572_8702	sce_7467	6.00E-61	1.00E-56
SCE1572_8703	sce_7473	9.00E-117	3.00E-126
SCE1572_8704	sce_7474	4.00E-40	2.00E-43
SCE1572_8709	sce_7477	4.00E-33	4.00E-37
SCE1572_871	sce_646	0.00E+00	0.00E+00
SCE1572_8710	sce_851	1.00E-67	1.00E-67
SCE1572_8711	sce_852	1.00E-65	1.00E-65
SCE1572_8712	sce_7522	2.00E-148	2.00E-148
SCE1572_8713	sce_7523	4.00E-167	6.00E-170
SCE1572_8714	sce_7524	4.00E-171	4.00E-177
SCE1572_8715	sce_7525	1.00E-129	1.00E-129
SCE1572_8716	sce_7526	2.00E-134	2.00E-169
SCE1572_8719	sce_5999	3.00E-105	1.00E-105
SCE1572_872	sce_647	0.00E+00	0.00E+00
SCE1572_8722	sce_5994	5.00E-49	2.00E-44
SCE1572_8729	sce_7527	2.00E-68	1.00E-83
SCE1572_8730	sce_7540	8.00E-131	2.00E-130
SCE1572_8731	sce_7541	3.00E-70	7.00E-63
SCE1572_8733	sce_828	3.00E-110	2.00E-120
SCE1572_8734	sce_829	4.00E-84	6.00E-73
SCE1572_8737	sce_7545	4.00E-158	2.00E-162
SCE1572_8738	sce_7546	5.00E-125	2.00E-129
SCE1572_8739	sce_7547	6.00E-152	4.00E-171
SCE1572_874	sce_648	5.00E-60	1.00E-57
SCE1572_8740	sce_7557	6.00E-126	6.00E-122
SCE1572_8741	sce_7559	1.00E-152	4.00E-162
SCE1572_8748	sce_7571	0.00E+00	0.00E+00
SCE1572_8749	sce_7572	0.00E+00	6.00E-177
SCE1572_8756	sce_7575	0.00E+00	0.00E+00
SCE1572_8757	sce_7576	1.00E-50	8.00E-64
SCE1572_8758	sce_7578	0.00E+00	3.00E-180
SCE1572_8759	sce_7579	0.00E+00	3.00E-177
SCE1572_876	sce_649	2.00E-61	2.00E-61
SCE1572_8760	sce_2037	0.00E+00	0.00E+00
SCE1572_8764	sce_1676	0.00E+00	0.00E+00
SCE1572_8766	sce_8672	7.00E-40	4.00E-31
SCE1572_8767	sce_9806	6.00E-63	9.00E-74
SCE1572_8767	sce_6808	6.00E-63	9.00E-74
SCE1572_877	sce_651	1.00E-75	1.00E-75
SCE1572_8777	sce_7787	2.00E-81	5.00E-94
SCE1572_8779	sce_7584	1.00E-64	1.00E-64
SCE1572_878	sce_653	5.00E-60	2.00E-57
SCE1572_8781	sce_7585	0.00E+00	0.00E+00
SCE1572_8782	sce_7586	8.00E-155	2.00E-145
SCE1572_8783	sce_7587	0.00E+00	0.00E+00
SCE1572_8784	sce_7588	1.00E-140	4.00E-140
SCE1572_8785	sce_7589	3.00E-166	6.00E-169
SCE1572_8786	sce_7590	0.00E+00	0.00E+00
SCE1572_8787	sce_7591	3.00E-176	0.00E+00
SCE1572_8789	sce_7592	9.00E-164	3.00E-173
SCE1572_879	sce_654	9.00E-144	6.00E-130
SCE1572_8790	sce_2005	0.00E+00	0.00E+00
SCE1572_8791	sce_1526	7.00E-17	1.00E-16
SCE1572_8792	sce_5303	3.00E-97	3.00E-97
SCE1572_8795	sce_8795	2.00E-33	9.00E-28
SCE1572_88	sce_75	2.00E-152	2.00E-152
SCE1572_880	sce_655	0.00E+00	0.00E+00
SCE1572_8803	sce_1534	4.00E-65	5.00E-71
SCE1572_8804	sce_1535	6.00E-71	2.00E-71

SCE1572_881	sce_656	1.00E-121	2.00E-96
SCE1572_8811	sce_2112	6.00E-52	3.00E-51
SCE1572_8812	sce_7084	3.00E-88	4.00E-88
SCE1572_8814	sce_2393	1.00E-16	7.00E-17
SCE1572_8815	sce_7043	6.00E-34	6.00E-34
SCE1572_8816	sce_9596	2.00E-147	2.00E-147
SCE1572_8818	sce_9597	1.00E-105	1.00E-105
SCE1572_882	sce_657	0.00E+00	0.00E+00
SCE1572_8824	sce_2109	2.00E-12	6.00E-13
SCE1572_8826	sce_515	1.00E-167	3.00E-168
SCE1572_8834	sce_6701	0.00E+00	0.00E+00
SCE1572_8834	sce_5086	0.00E+00	0.00E+00
SCE1572_8834	sce_5085	0.00E+00	0.00E+00
SCE1572_8834	sce_3793	0.00E+00	0.00E+00
SCE1572_884	sce_658	1.00E-57	1.00E-57
SCE1572_8841	sce_2158	4.00E-132	6.00E-129
SCE1572_8845	sce_7604	9.00E-145	1.00E-146
SCE1572_8846	sce_7605	4.00E-129	2.00E-125
SCE1572_8848	sce_7607	8.00E-161	8.00E-163
SCE1572_8849	sce_7610	2.00E-156	3.00E-152
SCE1572_885	sce_659	5.00E-134	1.00E-134
SCE1572_8850	sce_7611	1.00E-106	2.00E-86
SCE1572_8852	sce_7620	0.00E+00	0.00E+00
SCE1572_8854	sce_7621	8.00E-140	2.00E-139
SCE1572_8855	sce_7622	2.00E-84	2.00E-84
SCE1572_8856	sce_7624	1.00E-90	2.00E-90
SCE1572_8857	sce_7625	5.00E-69	5.00E-69
SCE1572_8858	sce_7626	0.00E+00	0.00E+00
SCE1572_8859	sce_7627	0.00E+00	0.00E+00
SCE1572_886	sce_660	0.00E+00	0.00E+00
SCE1572_8861	sce_8755	0.00E+00	0.00E+00
SCE1572_8861	sce_7818	0.00E+00	0.00E+00
SCE1572_8861	sce_7814	0.00E+00	0.00E+00
SCE1572_8861	sce_7815	0.00E+00	0.00E+00
SCE1572_8861	sce_8753	0.00E+00	0.00E+00
SCE1572_8865	sce_6039	7.00E-151	6.00E-151
SCE1572_8866	sce_6040	2.00E-166	2.00E-169
SCE1572_8868	sce_1251	4.00E-11	2.00E-13
SCE1572_8869	sce_7628	3.00E-135	2.00E-126
SCE1572_887	sce_661	3.00E-140	3.00E-140
SCE1572_8871	sce_7630	0.00E+00	0.00E+00
SCE1572_8872	sce_7631	2.00E-111	1.00E-111
SCE1572_8873	sce_1062	1.00E-171	0.00E+00
SCE1572_8876	sce_7661	0.00E+00	0.00E+00
SCE1572_8876	sce_6092	0.00E+00	0.00E+00
SCE1572_8876	sce_6095	0.00E+00	0.00E+00
SCE1572_8876	sce_3917	0.00E+00	0.00E+00
SCE1572_8876	sce_6107	0.00E+00	0.00E+00
SCE1572_8876	sce_6093	0.00E+00	0.00E+00
SCE1572_8876	sce_6094	0.00E+00	0.00E+00
SCE1572_8876	sce_388	0.00E+00	0.00E+00
SCE1572_8876	sce_6535	0.00E+00	0.00E+00
SCE1572_8876	sce_9920	0.00E+00	0.00E+00
SCE1572_8876	sce_10204	0.00E+00	0.00E+00
SCE1572_8876	sce_7640	0.00E+00	0.00E+00
SCE1572_8876	sce_5835	0.00E+00	0.00E+00
SCE1572_8876	sce_4513	0.00E+00	0.00E+00
SCE1572_8876	sce_9557	0.00E+00	0.00E+00
SCE1572_8876	sce_1398	0.00E+00	0.00E+00
SCE1572_8876	sce_3003	0.00E+00	0.00E+00
SCE1572_8876	sce_8602	0.00E+00	0.00E+00
SCE1572_8876	sce_8618	0.00E+00	0.00E+00
SCE1572_8878	sce_7515	5.00E-94	4.00E-57
SCE1572_8880	sce_7519	6.00E-117	3.00E-105
SCE1572_8881	sce_9791	4.00E-135	3.00E-140
SCE1572_8883	sce_10354	8.00E-63	3.00E-63
SCE1572_8886	sce_7657	0.00E+00	0.00E+00
SCE1572_8886	sce_3491	0.00E+00	0.00E+00
SCE1572_8886	sce_6712	0.00E+00	0.00E+00
SCE1572_8886	sce_9954	0.00E+00	0.00E+00
SCE1572_8887	sce_7658	3.00E-21	2.00E-19
SCE1572_8888	sce_7659	1.00E-144	1.00E-121
SCE1572_889	sce_662	0.00E+00	0.00E+00
SCE1572_8890	sce_6214	5.00E-96	1.00E-96
SCE1572_8894	sce_7664	0.00E+00	0.00E+00
SCE1572_8896	sce_7666	4.00E-55	8.00E-62

SCE1572_8897	sce_7673	0.00E+00	0.00E+00
SCE1572_8897	sce_7667	0.00E+00	0.00E+00
SCE1572_89	sce_76	0.00E+00	0.00E+00
SCE1572_890	sce_663	0.00E+00	1.00E-179
SCE1572_8900	sce_7675	8.00E-170	1.00E-177
SCE1572_8901	sce_7677	0.00E+00	0.00E+00
SCE1572_8902	sce_3000	2.00E-126	5.00E-140
SCE1572_8904	sce_7678	2.00E-143	7.00E-144
SCE1572_8905	sce_7689	3.00E-78	2.00E-78
SCE1572_8909	sce_7691	2.00E-117	6.00E-123
SCE1572_891	sce_664	0.00E+00	0.00E+00
SCE1572_8910	sce_7692	8.00E-69	3.00E-69
SCE1572_8911	sce_7695	5.00E-98	3.00E-102
SCE1572_8914	sce_7696	2.00E-107	2.00E-103
SCE1572_8917	sce_6286	1.00E-94	4.00E-73
SCE1572_8918	sce_6287	5.00E-62	5.00E-74
SCE1572_8919	sce_6288	1.00E-45	1.00E-45
SCE1572_8920	sce_864	0.00E+00	0.00E+00
SCE1572_8929	sce_7697	2.00E-47	2.00E-47
SCE1572_893	sce_666	3.00E-92	5.00E-85
SCE1572_8931	sce_7698	3.00E-136	2.00E-120
SCE1572_8932	sce_7699	0.00E+00	0.00E+00
SCE1572_8933	sce_7700	7.00E-113	1.00E-109
SCE1572_8934	sce_7701	2.00E-86	7.00E-71
SCE1572_8935	sce_7702	5.00E-77	3.00E-78
SCE1572_8937	sce_7703	0.00E+00	0.00E+00
SCE1572_8938	sce_7704	1.00E-22	5.00E-23
SCE1572_8939	sce_7705	6.00E-95	7.00E-95
SCE1572_894	sce_667	0.00E+00	0.00E+00
SCE1572_8940	sce_7706	6.00E-168	0.00E+00
SCE1572_8941	sce_7708	2.00E-140	3.00E-149
SCE1572_8942	sce_7709	2.00E-168	2.00E-168
SCE1572_8943	sce_7710	1.00E-42	3.00E-45
SCE1572_8945	sce_7712	2.00E-117	2.00E-117
SCE1572_8946	sce_7713	0.00E+00	0.00E+00
SCE1572_8947	sce_7714	0.00E+00	0.00E+00
SCE1572_8948	sce_7715	6.00E-25	2.00E-25
SCE1572_8949	sce_7717	1.00E-68	3.00E-78
SCE1572_895	sce_668	7.00E-110	4.00E-129
SCE1572_8952	sce_7718	4.00E-81	4.00E-62
SCE1572_8953	sce_7719	5.00E-16	8.00E-15
SCE1572_8954	sce_7720	5.00E-142	4.00E-144
SCE1572_8958	sce_7721	0.00E+00	0.00E+00
SCE1572_8962	sce_309	3.00E-74	1.00E-79
SCE1572_8963	sce_7725	2.00E-84	4.00E-90
SCE1572_8964	sce_7726	4.00E-108	4.00E-116
SCE1572_8965	sce_7727	0.00E+00	0.00E+00
SCE1572_8968	sce_7729	0.00E+00	0.00E+00
SCE1572_8969	sce_7730	3.00E-101	3.00E-97
SCE1572_8970	sce_7731	1.00E-173	9.00E-167
SCE1572_8971	sce_7733	0.00E+00	0.00E+00
SCE1572_8975	sce_7734	2.00E-135	3.00E-128
SCE1572_8976	sce_7735	3.00E-47	3.00E-50
SCE1572_8977	sce_7736	1.00E-63	1.00E-63
SCE1572_8978	sce_7737	9.00E-176	8.00E-166
SCE1572_8979	sce_7738	6.00E-15	4.00E-14
SCE1572_898	sce_670	8.00E-99	3.00E-116
SCE1572_8980	sce_10099	9.00E-46	5.00E-46
SCE1572_8984	sce_7750	7.00E-139	6.00E-156
SCE1572_8987	sce_7751	2.00E-154	1.00E-173
SCE1572_8989	sce_7752	0.00E+00	0.00E+00
SCE1572_8990	sce_7753	6.00E-53	4.00E-51
SCE1572_8991	sce_7756	1.00E-36	6.00E-37
SCE1572_8992	sce_7757	1.00E-122	6.00E-123
SCE1572_8993	sce_7758	0.00E+00	0.00E+00
SCE1572_8994	sce_7759	4.00E-104	2.00E-109
SCE1572_8995	sce_7760	5.00E-56	2.00E-55
SCE1572_8996	sce_7761	1.00E-47	4.00E-41
SCE1572_8997	sce_7762	1.00E-129	1.00E-127
SCE1572_8998	sce_7763	0.00E+00	0.00E+00
SCE1572_8999	sce_7764	4.00E-88	2.00E-88
SCE1572_9	sce_9	3.00E-110	3.00E-111
SCE1572_90	sce_77	0.00E+00	0.00E+00
SCE1572_900	sce_671	0.00E+00	0.00E+00
SCE1572_9000	sce_7765	4.00E-118	4.00E-118
SCE1572_9001	sce_7766	2.00E-67	6.00E-68

SCE1572_9002	sce_7767	6.00E-42	6.00E-42
SCE1572_9003	sce_7768	2.00E-78	2.00E-78
SCE1572_9004	sce_7769	1.00E-103	3.00E-117
SCE1572_9005	sce_7770	2.00E-08	1.00E-10
SCE1572_9006	sce_7771	0.00E+00	0.00E+00
SCE1572_9007	sce_7772	3.00E-39	2.00E-30
SCE1572_9008	sce_7773	0.00E+00	0.00E+00
SCE1572_901	sce_672	2.00E-128	3.00E-136
SCE1572_9012	sce_7774	2.00E-135	3.00E-127
SCE1572_902	sce_674	4.00E-25	1.00E-22
SCE1572_9021	sce_7776	4.00E-115	7.00E-105
SCE1572_9022	sce_7777	7.00E-159	4.00E-150
SCE1572_9023	sce_7778	0.00E+00	0.00E+00
SCE1572_9024	sce_7779	1.00E-40	1.00E-40
SCE1572_9025	sce_7780	8.00E-130	5.00E-130
SCE1572_9026	sce_7781	6.00E-153	2.00E-141
SCE1572_9027	sce_7782	0.00E+00	0.00E+00
SCE1572_9028	sce_7783	3.00E-165	2.00E-158
SCE1572_9029	sce_7784	7.00E-94	3.00E-95
SCE1572_903	sce_6084	6.00E-92	3.00E-88
SCE1572_9030	sce_7785	2.00E-116	2.00E-91
SCE1572_9031	sce_7786	0.00E+00	0.00E+00
SCE1572_9032	sce_7361	0.00E+00	0.00E+00
SCE1572_9032	sce_10425	0.00E+00	0.00E+00
SCE1572_9032	sce_3520	0.00E+00	0.00E+00
SCE1572_9033	sce_7791	2.00E-106	8.00E-90
SCE1572_9034	sce_7792	1.00E-80	6.00E-84
SCE1572_9035	sce_7793	7.00E-111	1.00E-105
SCE1572_9036	sce_7794	0.00E+00	0.00E+00
SCE1572_9037	sce_7796	0.00E+00	0.00E+00
SCE1572_9038	sce_7798	1.00E-48	2.00E-44
SCE1572_9039	sce_7799	2.00E-162	1.00E-155
SCE1572_904	sce_676	6.00E-145	5.00E-145
SCE1572_9040	sce_7800	9.00E-113	5.00E-123
SCE1572_9041	sce_7801	2.00E-176	6.00E-170
SCE1572_9042	sce_7802	5.00E-47	4.00E-50
SCE1572_9043	sce_7804	8.00E-76	2.00E-127
SCE1572_9044	sce_7805	0.00E+00	0.00E+00
SCE1572_9046	sce_7806	0.00E+00	0.00E+00
SCE1572_9047	sce_7807	1.00E-19	3.00E-20
SCE1572_9048	sce_7808	3.00E-54	2.00E-47
SCE1572_9049	sce_7809	0.00E+00	0.00E+00
SCE1572_905	sce_677	6.00E-124	3.00E-154
SCE1572_9050	sce_7810	5.00E-71	1.00E-77
SCE1572_9051	sce_7812	1.00E-75	2.00E-75
SCE1572_9053	sce_7818	0.00E+00	0.00E+00
SCE1572_9053	sce_7814	0.00E+00	0.00E+00
SCE1572_9053	sce_8755	0.00E+00	0.00E+00
SCE1572_9053	sce_7815	0.00E+00	0.00E+00
SCE1572_9053	sce_8753	0.00E+00	0.00E+00
SCE1572_9054	sce_7818	0.00E+00	0.00E+00
SCE1572_9055	sce_7819	5.00E-86	2.00E-97
SCE1572_9056	sce_1376	4.00E-69	1.00E-61
SCE1572_906	sce_678	3.00E-97	4.00E-97
SCE1572_9065	sce_7821	0.00E+00	0.00E+00
SCE1572_9067	sce_7822	3.00E-136	3.00E-157
SCE1572_9068	sce_7823	1.00E-111	6.00E-111
SCE1572_9069	sce_7824	4.00E-109	9.00E-121
SCE1572_907	sce_680	3.00E-89	3.00E-89
SCE1572_9070	sce_7825	0.00E+00	0.00E+00
SCE1572_9071	sce_7827	1.00E-179	0.00E+00
SCE1572_9072	sce_7828	4.00E-81	1.00E-88
SCE1572_9073	sce_7385	3.00E-169	2.00E-166
SCE1572_9074	sce_7837	3.00E-171	2.00E-167
SCE1572_9075	sce_3793	0.00E+00	0.00E+00
SCE1572_9075	sce_7069	0.00E+00	0.00E+00
SCE1572_9075	sce_5086	0.00E+00	0.00E+00
SCE1572_9075	sce_6701	0.00E+00	0.00E+00
SCE1572_9075	sce_5085	0.00E+00	0.00E+00
SCE1572_9077	sce_2024	0.00E+00	0.00E+00
SCE1572_9078	sce_2025	1.00E-65	1.00E-66
SCE1572_908	sce_681	9.00E-68	9.00E-78
SCE1572_9082	sce_7846	2.00E-79	1.00E-69
SCE1572_9083	sce_7847	9.00E-174	3.00E-167
SCE1572_9084	sce_7849	0.00E+00	0.00E+00
SCE1572_9087	sce_7850	0.00E+00	0.00E+00

SCE1572_9088	sce_7851	1.00E-47	2.00E-47
SCE1572_9089	sce_7867	0.00E+00	0.00E+00
SCE1572_9090	sce_7869	1.00E-69	4.00E-62
SCE1572_9092	sce_7876	0.00E+00	0.00E+00
SCE1572_9093	sce_7877	3.00E-21	5.00E-08
SCE1572_9094	sce_7878	5.00E-102	2.00E-108
SCE1572_9095	sce_7879	2.00E-135	1.00E-134
SCE1572_9096	sce_7880	2.00E-50	3.00E-44
SCE1572_9099	sce_7886	8.00E-123	3.00E-133
SCE1572_91	sce_79	3.00E-109	3.00E-109
SCE1572_910	sce_2065	0.00E+00	0.00E+00
SCE1572_910	sce_8618	0.00E+00	0.00E+00
SCE1572_910	sce_3917	0.00E+00	0.00E+00
SCE1572_910	sce_6107	0.00E+00	0.00E+00
SCE1572_910	sce_6092	0.00E+00	0.00E+00
SCE1572_910	sce_6094	0.00E+00	0.00E+00
SCE1572_910	sce_6095	0.00E+00	0.00E+00
SCE1572_910	sce_6093	0.00E+00	0.00E+00
SCE1572_910	sce_7661	0.00E+00	0.00E+00
SCE1572_910	sce_6535	0.00E+00	0.00E+00
SCE1572_910	sce_3003	0.00E+00	0.00E+00
SCE1572_910	sce_10204	0.00E+00	0.00E+00
SCE1572_910	sce_4513	0.00E+00	0.00E+00
SCE1572_910	sce_388	0.00E+00	0.00E+00
SCE1572_910	sce_7640	0.00E+00	0.00E+00
SCE1572_910	sce_9557	0.00E+00	0.00E+00
SCE1572_910	sce_5835	0.00E+00	0.00E+00
SCE1572_9100	sce_7882	5.00E-87	2.00E-88
SCE1572_9101	sce_7883	0.00E+00	0.00E+00
SCE1572_9103	sce_7884	0.00E+00	0.00E+00
SCE1572_9104	sce_7887	0.00E+00	0.00E+00
SCE1572_9105	sce_7888	2.00E-139	1.00E-131
SCE1572_9107	sce_7889	4.00E-53	2.00E-55
SCE1572_9108	sce_7890	6.00E-50	3.00E-51
SCE1572_9109	sce_7891	7.00E-79	2.00E-82
SCE1572_9110	sce_7892	0.00E+00	0.00E+00
SCE1572_9111	sce_7893	4.00E-77	3.00E-79
SCE1572_9112	sce_7894	8.00E-137	7.00E-135
SCE1572_9113	sce_7895	5.00E-71	5.00E-71
SCE1572_9115	sce_7897	2.00E-44	2.00E-44
SCE1572_9116	sce_7898	0.00E+00	0.00E+00
SCE1572_9117	sce_7899	0.00E+00	0.00E+00
SCE1572_912	sce_682	0.00E+00	0.00E+00
SCE1572_9123	sce_7901	2.00E-100	2.00E-100
SCE1572_9124	sce_7902	0.00E+00	0.00E+00
SCE1572_9125	sce_7903	2.00E-72	2.00E-66
SCE1572_9126	sce_7904	7.00E-71	2.00E-58
SCE1572_9127	sce_7905	4.00E-116	2.00E-117
SCE1572_9128	sce_7906	2.00E-73	2.00E-73
SCE1572_9129	sce_7907	0.00E+00	0.00E+00
SCE1572_913	sce_683	8.00E-59	1.00E-61
SCE1572_9130	sce_7908	5.00E-66	4.00E-62
SCE1572_9131	sce_7909	5.00E-26	2.00E-27
SCE1572_9132	sce_7910	1.00E-131	8.00E-132
SCE1572_9134	sce_7912	8.00E-89	9.00E-43
SCE1572_9135	sce_7913	1.00E-68	1.00E-56
SCE1572_9136	sce_7914	2.00E-79	2.00E-68
SCE1572_914	sce_684	2.00E-44	2.00E-44
SCE1572_9143	sce_8592	0.00E+00	0.00E+00
SCE1572_9143	sce_3937	0.00E+00	0.00E+00
SCE1572_9144	sce_7942	1.00E-108	6.00E-109
SCE1572_9145	sce_7943	7.00E-138	5.00E-139
SCE1572_9147	sce_7944	7.00E-128	7.00E-128
SCE1572_9148	sce_7945	0.00E+00	0.00E+00
SCE1572_9149	sce_7946	1.00E-104	1.00E-104
SCE1572_9150	sce_7947	1.00E-51	5.00E-31
SCE1572_9151	sce_7948	3.00E-50	6.00E-45
SCE1572_9152	sce_7949	0.00E+00	0.00E+00
SCE1572_9153	sce_7951	6.00E-83	6.00E-83
SCE1572_9154	sce_7952	0.00E+00	0.00E+00
SCE1572_9155	sce_7953	2.00E-172	1.00E-165
SCE1572_9156	sce_7954	0.00E+00	0.00E+00
SCE1572_9157	sce_7955	0.00E+00	0.00E+00
SCE1572_9158	sce_7956	5.00E-74	7.00E-65
SCE1572_9160	sce_7957	0.00E+00	0.00E+00
SCE1572_9161	sce_7958	3.00E-114	7.00E-119

SCE1572_917	sce_685	0.00E+00	0.00E+00
SCE1572_9171	sce_7098	6.00E-20	6.00E-27
SCE1572_9173	sce_7964	4.00E-40	5.00E-43
SCE1572_9174	sce_7965	8.00E-148	2.00E-158
SCE1572_9175	sce_7967	1.00E-107	1.00E-95
SCE1572_9177	sce_7969	0.00E+00	0.00E+00
SCE1572_9177	sce_5403	0.00E+00	0.00E+00
SCE1572_9178	sce_2177	8.00E-44	2.00E-55
SCE1572_9179	sce_7971	2.00E-87	1.00E-87
SCE1572_918	sce_686	0.00E+00	0.00E+00
SCE1572_9181	sce_7972	0.00E+00	0.00E+00
SCE1572_9187	sce_7985	7.00E-124	3.00E-123
SCE1572_9188	sce_7986	0.00E+00	0.00E+00
SCE1572_9189	sce_4575	5.00E-12	1.00E-12
SCE1572_919	sce_687	1.00E-72	1.00E-72
SCE1572_9190	sce_7987	1.00E-112	9.00E-113
SCE1572_9191	sce_7988	5.00E-55	5.00E-55
SCE1572_9192	sce_7386	0.00E+00	0.00E+00
SCE1572_9193	sce_7387	2.00E-55	2.00E-52
SCE1572_9194	sce_7388	7.00E-72	1.00E-75
SCE1572_9195	sce_7389	4.00E-88	5.00E-91
SCE1572_9196	sce_7990	2.00E-158	2.00E-159
SCE1572_9197	sce_1285	4.00E-56	3.00E-52
SCE1572_9198	sce_7991	7.00E-128	4.00E-131
SCE1572_9199	sce_7992	3.00E-139	3.00E-139
SCE1572_92	sce_81	0.00E+00	0.00E+00
SCE1572_9200	sce_7998	3.00E-15	4.00E-14
SCE1572_9202	sce_8000	0.00E+00	0.00E+00
SCE1572_9203	sce_8001	2.00E-114	3.00E-112
SCE1572_9204	sce_8002	3.00E-118	1.00E-120
SCE1572_9205	sce_8003	6.00E-72	2.00E-64
SCE1572_9206	sce_8004	3.00E-168	5.00E-167
SCE1572_9209	sce_8010	0.00E+00	0.00E+00
SCE1572_921	sce_688	0.00E+00	0.00E+00
SCE1572_9210	sce_8011	0.00E+00	0.00E+00
SCE1572_9211	sce_8012	1.00E-157	2.00E-156
SCE1572_9212	sce_8013	6.00E-159	3.00E-160
SCE1572_9214	sce_8014	0.00E+00	0.00E+00
SCE1572_9215	sce_8015	4.00E-42	2.00E-44
SCE1572_9216	sce_8016	0.00E+00	0.00E+00
SCE1572_9217	sce_8019	2.00E-180	0.00E+00
SCE1572_922	sce_689	7.00E-39	9.00E-35
SCE1572_9220	sce_8022	0.00E+00	0.00E+00
SCE1572_9222	sce_9351	6.00E-76	5.00E-76
SCE1572_9223	sce_7616	7.00E-80	7.00E-80
SCE1572_923	sce_690	2.00E-125	2.00E-106
SCE1572_9235	sce_4668	3.00E-45	7.00E-38
SCE1572_9236	sce_4669	3.00E-20	4.00E-25
SCE1572_924	sce_691	3.00E-68	4.00E-68
SCE1572_9248	sce_8023	0.00E+00	0.00E+00
SCE1572_9249	sce_8024	2.00E-168	1.00E-168
SCE1572_925	sce_692	2.00E-113	1.00E-104
SCE1572_9250	sce_8026	0.00E+00	0.00E+00
SCE1572_9251	sce_8027	0.00E+00	0.00E+00
SCE1572_9253	sce_8028	2.00E-108	2.00E-121
SCE1572_9254	sce_8029	2.00E-175	0.00E+00
SCE1572_9255	sce_8030	2.00E-157	1.00E-157
SCE1572_9256	sce_8031	8.00E-19	7.00E-16
SCE1572_9258	sce_8033	9.00E-151	4.00E-153
SCE1572_9259	sce_8034	2.00E-175	9.00E-166
SCE1572_926	sce_694	6.00E-131	1.00E-132
SCE1572_9260	sce_8035	0.00E+00	6.00E-176
SCE1572_9261	sce_8039	7.00E-33	3.00E-35
SCE1572_9262	sce_8041	3.00E-63	3.00E-63
SCE1572_9263	sce_8042	1.00E-50	1.00E-50
SCE1572_9264	sce_8043	8.00E-124	9.00E-132
SCE1572_9265	sce_8044	0.00E+00	0.00E+00
SCE1572_9266	sce_8047	1.00E-180	1.00E-141
SCE1572_9268	sce_8049	7.00E-137	2.00E-143
SCE1572_9269	sce_8050	3.00E-96	4.00E-109
SCE1572_927	sce_695	3.00E-109	6.00E-124
SCE1572_9272	sce_8052	7.00E-105	1.00E-101
SCE1572_9273	sce_8053	2.00E-136	8.00E-125
SCE1572_9274	sce_8054	0.00E+00	0.00E+00
SCE1572_9275	sce_8055	0.00E+00	0.00E+00
SCE1572_9276	sce_8056	0.00E+00	0.00E+00

SCE1572_9277	sce_8057	7.00E-168	4.00E-149
SCE1572_9278	sce_8058	8.00E-46	5.00E-25
SCE1572_9279	sce_8059	2.00E-89	3.00E-126
SCE1572_928	sce_696	6.00E-98	2.00E-105
SCE1572_9280	sce_8060	4.00E-22	2.00E-47
SCE1572_9281	sce_8061	2.00E-96	3.00E-97
SCE1572_9282	sce_8062	2.00E-115	2.00E-135
SCE1572_9283	sce_8064	1.00E-79	1.00E-79
SCE1572_9285	sce_8065	1.00E-58	3.00E-51
SCE1572_9286	sce_8067	2.00E-164	5.00E-163
SCE1572_9287	sce_8068	0.00E+00	0.00E+00
SCE1572_9288	sce_8069	4.00E-45	4.00E-45
SCE1572_929	sce_697	1.00E-157	8.00E-155
SCE1572_9290	sce_8070	0.00E+00	0.00E+00
SCE1572_9291	sce_8071	1.00E-104	1.00E-104
SCE1572_9292	sce_8072	0.00E+00	0.00E+00
SCE1572_9293	sce_8073	0.00E+00	0.00E+00
SCE1572_9294	sce_8074	0.00E+00	1.00E-179
SCE1572_9295	sce_8075	0.00E+00	0.00E+00
SCE1572_9296	sce_8076	4.00E-177	4.00E-170
SCE1572_9297	sce_8077	1.00E-67	8.00E-76
SCE1572_9298	sce_8078	1.00E-67	2.00E-71
SCE1572_9299	sce_8079	1.00E-92	2.00E-101
SCE1572_93	sce_82	0.00E+00	0.00E+00
SCE1572_930	sce_698	2.00E-95	2.00E-95
SCE1572_9300	sce_8080	7.00E-167	3.00E-166
SCE1572_9301	sce_8081	4.00E-42	8.00E-41
SCE1572_9302	sce_8082	5.00E-30	5.00E-30
SCE1572_9303	sce_8083	1.00E-75	1.00E-75
SCE1572_9304	sce_8084	0.00E+00	0.00E+00
SCE1572_9305	sce_8085	6.00E-118	2.00E-129
SCE1572_9306	sce_8086	7.00E-172	0.00E+00
SCE1572_9307	sce_8087	0.00E+00	0.00E+00
SCE1572_9308	sce_8088	0.00E+00	0.00E+00
SCE1572_931	sce_699	4.00E-100	4.00E-100
SCE1572_9310	sce_8089	0.00E+00	0.00E+00
SCE1572_9311	sce_8090	1.00E-163	6.00E-168
SCE1572_9312	sce_8092	2.00E-89	3.00E-89
SCE1572_9313	sce_8093	4.00E-80	2.00E-78
SCE1572_9314	sce_8094	0.00E+00	0.00E+00
SCE1572_9315	sce_8095	2.00E-113	8.00E-136
SCE1572_9316	sce_8096	1.00E-135	4.00E-143
SCE1572_9317	sce_8097	4.00E-174	0.00E+00
SCE1572_9318	sce_8099	0.00E+00	0.00E+00
SCE1572_9318	sce_6289	0.00E+00	0.00E+00
SCE1572_9320	sce_8101	2.00E-144	2.00E-144
SCE1572_9321	sce_8102	7.00E-38	2.00E-32
SCE1572_9322	sce_8103	2.00E-61	2.00E-61
SCE1572_9323	sce_8104	0.00E+00	0.00E+00
SCE1572_9324	sce_8105	0.00E+00	0.00E+00
SCE1572_9326	sce_8106	6.00E-53	6.00E-48
SCE1572_9327	sce_8107	1.00E-24	1.00E-24
SCE1572_9328	sce_8108	0.00E+00	0.00E+00
SCE1572_933	sce_701	0.00E+00	0.00E+00
SCE1572_9330	sce_8109	5.00E-89	5.00E-89
SCE1572_9331	sce_8110	3.00E-112	3.00E-112
SCE1572_9333	sce_8112	2.00E-70	1.00E-74
SCE1572_9334	sce_8113	0.00E+00	0.00E+00
SCE1572_9335	sce_8114	3.00E-158	3.00E-145
SCE1572_9336	sce_8115	5.00E-72	6.00E-79
SCE1572_9337	sce_8116	0.00E+00	0.00E+00
SCE1572_9337	sce_5582	0.00E+00	0.00E+00
SCE1572_9338	sce_8117	3.00E-66	2.00E-66
SCE1572_9339	sce_8118	5.00E-25	5.00E-31
SCE1572_934	sce_702	1.00E-148	2.00E-142
SCE1572_9340	sce_8119	1.00E-133	1.00E-133
SCE1572_9341	sce_8120	1.00E-144	3.00E-138
SCE1572_9342	sce_8121	9.00E-39	9.00E-39
SCE1572_9343	sce_8123	3.00E-131	2.00E-132
SCE1572_9344	sce_8124	7.00E-157	2.00E-148
SCE1572_9345	sce_8125	0.00E+00	0.00E+00
SCE1572_9346	sce_8126	0.00E+00	0.00E+00
SCE1572_9349	sce_8130	3.00E-18	1.00E-22
SCE1572_935	sce_703	5.00E-139	6.00E-139
SCE1572_9350	sce_8131	0.00E+00	0.00E+00
SCE1572_9351	sce_8132	7.00E-62	7.00E-62

SCE1572_9352	sce_8133	4.00E-102	2.00E-109
SCE1572_9353	sce_8134	0.00E+00	0.00E+00
SCE1572_9354	sce_8135	1.00E-84	7.00E-85
SCE1572_9355	sce_8136	3.00E-62	2.00E-62
SCE1572_9356	sce_8137	0.00E+00	0.00E+00
SCE1572_9357	sce_8138	0.00E+00	0.00E+00
SCE1572_9358	sce_8139	1.00E-131	4.00E-135
SCE1572_9359	sce_8140	6.00E-167	4.00E-167
SCE1572_936	sce_704	2.00E-112	1.00E-123
SCE1572_9360	sce_8141	2.00E-177	2.00E-173
SCE1572_9362	sce_8142	0.00E+00	0.00E+00
SCE1572_9364	sce_8144	0.00E+00	0.00E+00
SCE1572_9365	sce_8145	0.00E+00	0.00E+00
SCE1572_9366	sce_8146	2.00E-78	1.00E-87
SCE1572_9367	sce_8147	0.00E+00	0.00E+00
SCE1572_9368	sce_8148	2.00E-64	1.00E-53
SCE1572_9369	sce_8149	8.00E-13	8.00E-13
SCE1572_937	sce_705	4.00E-71	4.00E-66
SCE1572_9370	sce_8150	8.00E-124	2.00E-120
SCE1572_9371	sce_8151	5.00E-39	9.00E-47
SCE1572_9372	sce_8152	2.00E-168	2.00E-169
SCE1572_9373	sce_8153	5.00E-89	1.00E-95
SCE1572_9374	sce_8155	2.00E-172	4.00E-177
SCE1572_9376	sce_8157	3.00E-20	3.00E-20
SCE1572_9377	sce_8158	1.00E-67	5.00E-78
SCE1572_9379	sce_8159	0.00E+00	0.00E+00
SCE1572_938	sce_706	2.00E-22	6.00E-14
SCE1572_9380	sce_8160	7.00E-27	4.00E-44
SCE1572_9381	sce_8161	0.00E+00	0.00E+00
SCE1572_9383	sce_8162	0.00E+00	0.00E+00
SCE1572_9384	sce_8164	4.00E-76	3.00E-83
SCE1572_9385	sce_8165	2.00E-15	2.00E-23
SCE1572_9386	sce_8166	2.00E-155	2.00E-174
SCE1572_9387	sce_8167	0.00E+00	0.00E+00
SCE1572_9388	sce_8168	8.00E-88	2.00E-87
SCE1572_9389	sce_8169	0.00E+00	0.00E+00
SCE1572_939	sce_707	1.00E-107	3.00E-111
SCE1572_9390	sce_8170	1.00E-155	4.00E-155
SCE1572_9391	sce_8171	1.00E-34	1.00E-43
SCE1572_9393	sce_8172	2.00E-72	3.00E-64
SCE1572_9394	sce_8173	2.00E-150	4.00E-164
SCE1572_9395	sce_8174	7.00E-22	7.00E-20
SCE1572_9396	sce_8175	0.00E+00	0.00E+00
SCE1572_9397	sce_8179	2.00E-83	3.00E-84
SCE1572_9398	sce_8180	4.00E-115	8.00E-108
SCE1572_9399	sce_8181	8.00E-150	6.00E-149
SCE1572_94	sce_83	3.00E-46	3.00E-46
SCE1572_940	sce_708	0.00E+00	0.00E+00
SCE1572_9400	sce_8182	8.00E-36	1.00E-44
SCE1572_9401	sce_8183	1.00E-58	2.00E-58
SCE1572_9402	sce_8184	0.00E+00	0.00E+00
SCE1572_9403	sce_8185	1.00E-148	1.00E-140
SCE1572_9404	sce_8186	1.00E-106	6.00E-102
SCE1572_9407	sce_8189	0.00E+00	0.00E+00
SCE1572_9408	sce_8190	1.00E-85	6.00E-93
SCE1572_9409	sce_8191	0.00E+00	0.00E+00
SCE1572_941	sce_709	5.00E-29	2.00E-29
SCE1572_9410	sce_8192	0.00E+00	0.00E+00
SCE1572_9411	sce_8193	2.00E-147	1.00E-144
SCE1572_9412	sce_8195	7.00E-150	2.00E-147
SCE1572_9413	sce_8196	1.00E-154	5.00E-173
SCE1572_9414	sce_8198	0.00E+00	0.00E+00
SCE1572_9416	sce_8203	1.00E-69	1.00E-69
SCE1572_9417	sce_8204	0.00E+00	0.00E+00
SCE1572_9418	sce_8205	2.00E-72	2.00E-72
SCE1572_9419	sce_8206	4.00E-70	2.00E-70
SCE1572_9420	sce_8207	1.00E-61	4.00E-66
SCE1572_9421	sce_8208	0.00E+00	0.00E+00
SCE1572_9422	sce_8209	6.00E-53	7.00E-53
SCE1572_9423	sce_8210	9.00E-26	1.00E-24
SCE1572_9424	sce_8211	3.00E-66	5.00E-73
SCE1572_9425	sce_8212	2.00E-82	7.00E-89
SCE1572_9426	sce_8213	2.00E-105	1.00E-103
SCE1572_9427	sce_8214	1.00E-29	4.00E-24
SCE1572_9428	sce_8215	0.00E+00	0.00E+00
SCE1572_9430	sce_8219	1.00E-113	1.00E-123

SCE1572_9431	sce_8220	3.00E-104	1.00E-108
SCE1572_9432	sce_8221	2.00E-135	8.00E-126
SCE1572_9433	sce_8222	1.00E-24	1.00E-24
SCE1572_9434	sce_8223	1.00E-139	3.00E-136
SCE1572_9435	sce_8224	0.00E+00	0.00E+00
SCE1572_9436	sce_8225	0.00E+00	0.00E+00
SCE1572_9437	sce_8226	2.00E-35	2.00E-35
SCE1572_9439	sce_8227	2.00E-107	2.00E-117
SCE1572_9440	sce_8228	4.00E-153	4.00E-138
SCE1572_9441	sce_8229	4.00E-134	3.00E-133
SCE1572_9442	sce_8230	5.00E-53	4.00E-53
SCE1572_9443	sce_6393	2.00E-07	3.00E-12
SCE1572_9444	sce_1718	0.00E+00	0.00E+00
SCE1572_9446	sce_8233	6.00E-43	8.00E-50
SCE1572_9448	sce_8235	0.00E+00	5.00E-179
SCE1572_9449	sce_8236	8.00E-156	2.00E-155
SCE1572_945	sce_710	5.00E-72	3.00E-74
SCE1572_9450	sce_8237	5.00E-171	5.00E-171
SCE1572_9451	sce_8238	2.00E-15	5.00E-15
SCE1572_9452	sce_8239	2.00E-96	8.00E-86
SCE1572_9458	sce_8241	7.00E-58	4.00E-58
SCE1572_946	sce_711	6.00E-101	1.00E-91
SCE1572_9460	sce_8242	2.00E-138	2.00E-163
SCE1572_9461	sce_8243	6.00E-116	2.00E-113
SCE1572_9462	sce_8244	9.00E-54	3.00E-60
SCE1572_9464	sce_8245	3.00E-163	3.00E-161
SCE1572_9466	sce_8247	0.00E+00	9.00E-175
SCE1572_9467	sce_8248	3.00E-110	6.00E-155
SCE1572_9468	sce_8249	0.00E+00	0.00E+00
SCE1572_9469	sce_8250	0.00E+00	0.00E+00
SCE1572_9470	sce_8251	1.00E-67	2.00E-70
SCE1572_9473	sce_8252	3.00E-137	2.00E-139
SCE1572_9474	sce_8253	1.00E-179	4.00E-180
SCE1572_9475	sce_8254	7.00E-145	7.00E-149
SCE1572_9476	sce_8255	8.00E-77	1.00E-86
SCE1572_9478	sce_8265	6.00E-152	8.00E-151
SCE1572_9479	sce_8266	9.00E-132	6.00E-119
SCE1572_9480	sce_8267	5.00E-60	3.00E-47
SCE1572_9481	sce_8268	0.00E+00	0.00E+00
SCE1572_9482	sce_8269	1.00E-59	5.00E-69
SCE1572_9483	sce_8270	6.00E-171	0.00E+00
SCE1572_9484	sce_8271	3.00E-142	3.00E-142
SCE1572_9485	sce_8272	8.00E-73	7.00E-58
SCE1572_9486	sce_8273	2.00E-177	2.00E-177
SCE1572_9487	sce_2574	2.00E-09	3.00E-09
SCE1572_9488	sce_8274	1.00E-164	0.00E+00
SCE1572_9489	sce_8275	0.00E+00	0.00E+00
SCE1572_949	sce_2338	2.00E-62	4.00E-63
SCE1572_9490	sce_8276	4.00E-175	3.00E-178
SCE1572_9492	sce_8277	0.00E+00	0.00E+00
SCE1572_9494	sce_8280	4.00E-51	2.00E-62
SCE1572_9495	sce_8281	1.00E-172	2.00E-171
SCE1572_9496	sce_8282	3.00E-122	9.00E-126
SCE1572_9497	sce_8283	0.00E+00	0.00E+00
SCE1572_9498	sce_8284	8.00E-65	8.00E-65
SCE1572_9499	sce_8285	6.00E-69	6.00E-69
SCE1572_95	sce_84	9.00E-06	2.00E-06
SCE1572_9500	sce_8286	0.00E+00	0.00E+00
SCE1572_9501	sce_8287	0.00E+00	0.00E+00
SCE1572_9502	sce_8288	2.00E-127	1.00E-118
SCE1572_9503	sce_8290	5.00E-43	3.00E-43
SCE1572_9504	sce_8291	5.00E-156	1.00E-157
SCE1572_9505	sce_8292	3.00E-148	5.00E-160
SCE1572_9506	sce_8293	0.00E+00	0.00E+00
SCE1572_9507	sce_8294	2.00E-93	3.00E-102
SCE1572_9508	sce_8295	3.00E-149	6.00E-159
SCE1572_9509	sce_8296	5.00E-29	1.00E-26
SCE1572_9510	sce_8297	1.00E-15	5.00E-16
SCE1572_9512	sce_8299	0.00E+00	0.00E+00
SCE1572_9513	sce_8300	1.00E-114	3.00E-124
SCE1572_9514	sce_8301	4.00E-101	4.00E-101
SCE1572_9515	sce_8302	4.00E-179	0.00E+00
SCE1572_9516	sce_8303	2.00E-56	3.00E-50
SCE1572_9517	sce_8304	0.00E+00	0.00E+00
SCE1572_9518	sce_8305	1.00E-97	1.00E-117
SCE1572_9520	sce_3738	0.00E+00	0.00E+00

SCE1572_9523	sce_8308	4.00E-65	2.00E-65
SCE1572_9524	sce_8309	2.00E-84	1.00E-91
SCE1572_9526	sce_8310	0.00E+00	0.00E+00
SCE1572_9527	sce_8311	1.00E-26	5.00E-29
SCE1572_9528	sce_8312	0.00E+00	0.00E+00
SCE1572_9529	sce_8313	0.00E+00	0.00E+00
SCE1572_953	sce_716	1.00E-36	7.00E-37
SCE1572_9530	sce_8314	0.00E+00	0.00E+00
SCE1572_9531	sce_8315	0.00E+00	0.00E+00
SCE1572_9532	sce_8316	4.00E-69	2.00E-69
SCE1572_9533	sce_8317	0.00E+00	0.00E+00
SCE1572_9534	sce_8318	0.00E+00	0.00E+00
SCE1572_9536	sce_8319	0.00E+00	0.00E+00
SCE1572_9537	sce_8320	2.00E-23	7.00E-25
SCE1572_9538	sce_8321	2.00E-63	3.00E-63
SCE1572_9541	sce_8323	9.00E-110	1.00E-139
SCE1572_9542	sce_8324	2.00E-48	2.00E-50
SCE1572_9543	sce_8325	3.00E-131	1.00E-119
SCE1572_9547	sce_2969	0.00E+00	0.00E+00
SCE1572_9549	sce_8328	1.00E-128	1.00E-128
SCE1572_9550	sce_8329	3.00E-59	3.00E-59
SCE1572_9551	sce_8330	3.00E-107	5.00E-98
SCE1572_9554	sce_8631	6.00E-14	1.00E-14
SCE1572_9555	sce_8332	7.00E-93	7.00E-95
SCE1572_9556	sce_8333	0.00E+00	0.00E+00
SCE1572_9557	sce_8334	3.00E-131	1.00E-130
SCE1572_9560	sce_8336	5.00E-134	6.00E-135
SCE1572_9561	sce_8337	0.00E+00	0.00E+00
SCE1572_9563	sce_8352	3.00E-177	4.00E-169
SCE1572_9564	sce_8353	2.00E-97	5.00E-92
SCE1572_9565	sce_8354	3.00E-149	5.00E-166
SCE1572_9568	sce_136	0.00E+00	0.00E+00
SCE1572_957	sce_719	0.00E+00	0.00E+00
SCE1572_9570	sce_7661	0.00E+00	0.00E+00
SCE1572_9570	sce_10204	0.00E+00	0.00E+00
SCE1572_9570	sce_3917	0.00E+00	0.00E+00
SCE1572_9570	sce_6095	0.00E+00	0.00E+00
SCE1572_9570	sce_6093	0.00E+00	0.00E+00
SCE1572_9570	sce_6092	0.00E+00	0.00E+00
SCE1572_9570	sce_6094	0.00E+00	0.00E+00
SCE1572_9570	sce_6107	0.00E+00	0.00E+00
SCE1572_9570	sce_6535	0.00E+00	0.00E+00
SCE1572_9570	sce_388	0.00E+00	0.00E+00
SCE1572_9570	sce_9920	0.00E+00	0.00E+00
SCE1572_9570	sce_9557	0.00E+00	0.00E+00
SCE1572_9570	sce_3003	0.00E+00	0.00E+00
SCE1572_9570	sce_7640	0.00E+00	0.00E+00
SCE1572_9570	sce_5835	0.00E+00	0.00E+00
SCE1572_9570	sce_8602	0.00E+00	0.00E+00
SCE1572_9570	sce_8618	0.00E+00	0.00E+00
SCE1572_9570	sce_2065	0.00E+00	0.00E+00
SCE1572_9570	sce_4513	0.00E+00	0.00E+00
SCE1572_9570	sce_3085	0.00E+00	0.00E+00
SCE1572_9571	sce_8364	1.00E-154	8.00E-174
SCE1572_9572	sce_8365	1.00E-18	2.00E-19
SCE1572_9573	sce_8366	9.00E-57	3.00E-78
SCE1572_9574	sce_8367	4.00E-37	3.00E-32
SCE1572_9576	sce_8368	2.00E-56	2.00E-53
SCE1572_9577	sce_8369	1.00E-85	1.00E-68
SCE1572_9579	sce_4341	2.00E-169	4.00E-161
SCE1572_958	sce_720	3.00E-71	2.00E-74
SCE1572_959	sce_721	0.00E+00	0.00E+00
SCE1572_9597	sce_9238	0.00E+00	0.00E+00
SCE1572_9597	sce_4347	0.00E+00	0.00E+00
SCE1572_9598	sce_4593	0.00E+00	0.00E+00
SCE1572_960	sce_722	6.00E-88	6.00E-88
SCE1572_9601	sce_9564	0.00E+00	0.00E+00
SCE1572_9603	sce_8430	9.00E-110	1.00E-108
SCE1572_961	sce_723	7.00E-66	2.00E-65
SCE1572_9617	sce_8431	6.00E-139	8.00E-138
SCE1572_9618	sce_8432	3.00E-92	4.00E-102
SCE1572_962	sce_724	0.00E+00	0.00E+00
SCE1572_9621	sce_8435	0.00E+00	0.00E+00
SCE1572_9622	sce_8435	3.00E-176	0.00E+00
SCE1572_9623	sce_8436	0.00E+00	0.00E+00
SCE1572_9624	sce_8437	0.00E+00	0.00E+00

SCE1572_9625	sce_8438	0.00E+00	0.00E+00
SCE1572_9627	sce_2065	0.00E+00	0.00E+00
SCE1572_9627	sce_8618	0.00E+00	0.00E+00
SCE1572_9628	sce_1657	4.00E-159	2.00E-161
SCE1572_9629	sce_8441	0.00E+00	0.00E+00
SCE1572_963	sce_725	0.00E+00	0.00E+00
SCE1572_9631	sce_8443	6.00E-32	1.00E-31
SCE1572_9632	sce_8444	1.00E-109	3.00E-112
SCE1572_9633	sce_8445	0.00E+00	0.00E+00
SCE1572_9634	sce_8446	0.00E+00	0.00E+00
SCE1572_9635	sce_8447	3.00E-109	2.00E-113
SCE1572_9636	sce_8448	0.00E+00	0.00E+00
SCE1572_9637	sce_8449	1.00E-33	2.00E-28
SCE1572_9638	sce_8450	3.00E-80	1.00E-93
SCE1572_964	sce_726	2.00E-68	8.00E-71
SCE1572_9640	sce_8451	0.00E+00	0.00E+00
SCE1572_9640	sce_9407	0.00E+00	0.00E+00
SCE1572_9640	sce_4817	0.00E+00	0.00E+00
SCE1572_9640	sce_3765	0.00E+00	0.00E+00
SCE1572_9641	sce_8452	0.00E+00	0.00E+00
SCE1572_9642	sce_8453	5.00E-42	4.00E-56
SCE1572_9643	sce_8454	0.00E+00	0.00E+00
SCE1572_9644	sce_8455	1.00E-49	2.00E-50
SCE1572_9645	sce_8456	2.00E-41	2.00E-41
SCE1572_9646	sce_8457	0.00E+00	0.00E+00
SCE1572_9647	sce_8458	0.00E+00	0.00E+00
SCE1572_9648	sce_8459	2.00E-32	8.00E-25
SCE1572_9652	sce_10366	4.00E-92	3.00E-85
SCE1572_9653	sce_9503	0.00E+00	0.00E+00
SCE1572_9653	sce_10365	0.00E+00	0.00E+00
SCE1572_9653	sce_9908	0.00E+00	0.00E+00
SCE1572_9656	sce_8463	3.00E-101	8.00E-102
SCE1572_9657	sce_8464	3.00E-162	1.00E-157
SCE1572_9658	sce_8465	0.00E+00	0.00E+00
SCE1572_9659	sce_8466	0.00E+00	0.00E+00
SCE1572_9660	sce_8467	8.00E-121	3.00E-121
SCE1572_9661	sce_8469	2.00E-119	2.00E-119
SCE1572_9662	sce_8470	3.00E-74	6.00E-97
SCE1572_9663	sce_8471	1.00E-164	3.00E-157
SCE1572_9664	sce_8472	1.00E-42	4.00E-24
SCE1572_9665	sce_8473	3.00E-64	5.00E-62
SCE1572_9666	sce_8474	3.00E-24	5.00E-33
SCE1572_9667	sce_8475	2.00E-127	2.00E-127
SCE1572_9668	sce_8476	1.00E-139	3.00E-136
SCE1572_9669	sce_8477	2.00E-88	4.00E-95
SCE1572_9670	sce_8478	0.00E+00	0.00E+00
SCE1572_9671	sce_8479	3.00E-74	7.00E-73
SCE1572_9672	sce_8480	1.00E-166	4.00E-160
SCE1572_9673	sce_8481	1.00E-84	5.00E-89
SCE1572_9674	sce_8483	0.00E+00	0.00E+00
SCE1572_9675	sce_8484	0.00E+00	0.00E+00
SCE1572_9676	sce_8485	2.00E-28	8.00E-35
SCE1572_9677	sce_8486	3.00E-146	2.00E-134
SCE1572_9678	sce_8487	1.00E-121	5.00E-132
SCE1572_9679	sce_8488	3.00E-104	3.00E-103
SCE1572_968	sce_728	8.00E-79	2.00E-79
SCE1572_9680	sce_8489	0.00E+00	0.00E+00
SCE1572_9681	sce_8490	0.00E+00	0.00E+00
SCE1572_9682	sce_8491	4.00E-109	7.00E-115
SCE1572_9683	sce_8492	2.00E-109	2.00E-109
SCE1572_9684	sce_8493	0.00E+00	2.00E-172
SCE1572_9685	sce_8494	2.00E-32	3.00E-51
SCE1572_9686	sce_8495	2.00E-127	2.00E-134
SCE1572_9687	sce_8496	4.00E-168	4.00E-174
SCE1572_9688	sce_8497	0.00E+00	0.00E+00
SCE1572_9689	sce_8498	7.00E-129	9.00E-118
SCE1572_969	sce_729	2.00E-109	4.00E-117
SCE1572_9690	sce_8499	8.00E-49	7.00E-52
SCE1572_9691	sce_8500	0.00E+00	0.00E+00
SCE1572_9692	sce_8501	8.00E-76	7.00E-78
SCE1572_9693	sce_8502	0.00E+00	0.00E+00
SCE1572_9694	sce_8504	0.00E+00	0.00E+00
SCE1572_9696	sce_8505	0.00E+00	0.00E+00
SCE1572_9697	sce_8506	2.00E-108	2.00E-107
SCE1572_9698	sce_8507	2.00E-128	3.00E-129
SCE1572_9699	sce_8508	3.00E-145	8.00E-148

SCE1572_970	sce_730	2.00E-30	1.00E-30
SCE1572_9700	sce_8509	9.00E-76	9.00E-71
SCE1572_9702	sce_8510	2.00E-81	1.00E-80
SCE1572_9704	sce_8511	9.00E-122	2.00E-133
SCE1572_9705	sce_8512	1.00E-68	2.00E-61
SCE1572_9708	sce_8513	0.00E+00	0.00E+00
SCE1572_9709	sce_8514	0.00E+00	0.00E+00
SCE1572_971	sce_731	6.00E-107	9.00E-111
SCE1572_9710	sce_8515	0.00E+00	0.00E+00
SCE1572_9711	sce_8516	0.00E+00	0.00E+00
SCE1572_9713	sce_8517	2.00E-86	9.00E-91
SCE1572_9714	sce_8518	1.00E-51	1.00E-51
SCE1572_9715	sce_8520	3.00E-44	1.00E-74
SCE1572_9716	sce_8521	5.00E-55	3.00E-60
SCE1572_9717	sce_8522	4.00E-160	4.00E-160
SCE1572_9718	sce_8523	0.00E+00	0.00E+00
SCE1572_972	sce_732	0.00E+00	0.00E+00
SCE1572_9720	sce_8524	0.00E+00	0.00E+00
SCE1572_9721	sce_8525	9.00E-144	4.00E-146
SCE1572_9722	sce_8526	2.00E-175	1.00E-175
SCE1572_9725	sce_8528	1.00E-96	2.00E-78
SCE1572_9726	sce_8529	4.00E-63	2.00E-64
SCE1572_9728	sce_8530	5.00E-155	5.00E-155
SCE1572_9729	sce_8531	6.00E-141	9.00E-162
SCE1572_973	sce_733	1.00E-90	9.00E-91
SCE1572_9730	sce_8532	3.00E-94	2.00E-103
SCE1572_9731	sce_8533	0.00E+00	0.00E+00
SCE1572_9732	sce_8534	0.00E+00	0.00E+00
SCE1572_9733	sce_8535	1.00E-153	2.00E-148
SCE1572_9734	sce_8536	1.00E-100	2.00E-100
SCE1572_9735	sce_8537	4.00E-171	0.00E+00
SCE1572_9736	sce_8538	6.00E-28	1.00E-06
SCE1572_9737	sce_8539	0.00E+00	0.00E+00
SCE1572_9738	sce_8540	4.00E-128	8.00E-123
SCE1572_9740	sce_8541	2.00E-126	1.00E-137
SCE1572_9741	sce_8542	0.00E+00	0.00E+00
SCE1572_9742	sce_8543	0.00E+00	0.00E+00
SCE1572_9743	sce_8544	4.00E-179	4.00E-179
SCE1572_9744	sce_8545	5.00E-105	2.00E-137
SCE1572_9746	sce_8547	3.00E-34	1.00E-30
SCE1572_9747	sce_8548	3.00E-87	1.00E-104
SCE1572_9748	sce_8549	0.00E+00	0.00E+00
SCE1572_9749	sce_8550	2.00E-109	2.00E-109
SCE1572_975	sce_734	1.00E-87	9.00E-80
SCE1572_9750	sce_8551	1.00E-140	1.00E-148
SCE1572_9757	sce_8552	3.00E-111	8.00E-105
SCE1572_9758	sce_8553	0.00E+00	0.00E+00
SCE1572_9759	sce_8555	7.00E-147	7.00E-158
SCE1572_9760	sce_8556	0.00E+00	0.00E+00
SCE1572_9761	sce_8557	7.00E-42	8.00E-42
SCE1572_9762	sce_8558	6.00E-86	1.00E-120
SCE1572_9763	sce_7918	7.00E-83	1.00E-83
SCE1572_9764	sce_7917	2.00E-82	8.00E-141
SCE1572_9765	sce_8560	4.00E-109	5.00E-113
SCE1572_9766	sce_8561	0.00E+00	0.00E+00
SCE1572_9767	sce_8562	2.00E-103	2.00E-103
SCE1572_9768	sce_8564	4.00E-134	8.00E-106
SCE1572_9769	sce_8565	3.00E-47	5.00E-51
SCE1572_977	sce_736	0.00E+00	0.00E+00
SCE1572_977	sce_6501	0.00E+00	0.00E+00
SCE1572_9770	sce_8566	0.00E+00	0.00E+00
SCE1572_9771	sce_8567	2.00E-53	2.00E-53
SCE1572_9772	sce_8568	2.00E-63	2.00E-63
SCE1572_9773	sce_8569	3.00E-178	3.00E-178
SCE1572_9774	sce_8570	0.00E+00	0.00E+00
SCE1572_9776	sce_8571	2.00E-140	4.00E-133
SCE1572_9777	sce_8572	6.00E-29	8.00E-33
SCE1572_9778	sce_8574	0.00E+00	0.00E+00
SCE1572_9779	sce_8575	2.00E-18	4.00E-11
SCE1572_978	sce_737	3.00E-100	6.00E-107
SCE1572_9781	sce_8576	2.00E-71	2.00E-69
SCE1572_9782	sce_8577	1.00E-25	2.00E-32
SCE1572_9783	sce_8578	8.00E-158	1.00E-154
SCE1572_9784	sce_8580	6.00E-79	4.00E-71
SCE1572_9786	sce_8584	6.00E-145	7.00E-146
SCE1572_9787	sce_8585	2.00E-169	0.00E+00

SCE1572_9788	sce_8586	2.00E-125	2.00E-117
SCE1572_9789	sce_8587	4.00E-153	1.00E-149
SCE1572_979	sce_739	5.00E-23	4.00E-23
SCE1572_9790	sce_220	1.00E-40	9.00E-54
SCE1572_9792	sce_7989	4.00E-79	7.00E-82
SCE1572_9793	sce_8605	0.00E+00	0.00E+00
SCE1572_9794	sce_8606	0.00E+00	0.00E+00
SCE1572_9796	sce_8607	2.00E-101	3.00E-103
SCE1572_9797	sce_8608	2.00E-10	1.00E-10
SCE1572_9798	sce_8609	1.00E-21	5.00E-18
SCE1572_9799	sce_8610	1.00E-40	8.00E-41
SCE1572_980	sce_740	1.00E-123	1.00E-123
SCE1572_9805	sce_8612	1.00E-169	5.00E-178
SCE1572_9807	sce_8613	5.00E-41	4.00E-41
SCE1572_9808	sce_8614	0.00E+00	0.00E+00
SCE1572_9809	sce_8615	2.00E-85	5.00E-104
SCE1572_981	sce_741	0.00E+00	0.00E+00
SCE1572_9810	sce_8616	5.00E-170	1.00E-174
SCE1572_9812	sce_8618	0.00E+00	0.00E+00
SCE1572_9812	sce_2065	0.00E+00	0.00E+00
SCE1572_9812	sce_6535	0.00E+00	0.00E+00
SCE1572_9812	sce_6092	0.00E+00	0.00E+00
SCE1572_9812	sce_6095	0.00E+00	0.00E+00
SCE1572_9812	sce_3003	0.00E+00	0.00E+00
SCE1572_9812	sce_7661	0.00E+00	0.00E+00
SCE1572_9812	sce_9557	0.00E+00	0.00E+00
SCE1572_9812	sce_10204	0.00E+00	0.00E+00
SCE1572_9812	sce_5835	0.00E+00	0.00E+00
SCE1572_9812	sce_388	0.00E+00	0.00E+00
SCE1572_9812	sce_7640	0.00E+00	0.00E+00
SCE1572_9812	sce_4513	0.00E+00	0.00E+00
SCE1572_9813	sce_8619	5.00E-53	6.00E-48
SCE1572_9814	sce_8620	8.00E-58	2.00E-52
SCE1572_9816	sce_8621	1.00E-112	4.00E-122
SCE1572_9819	sce_3896	4.00E-08	5.00E-14
SCE1572_9820	sce_8622	4.00E-110	7.00E-105
SCE1572_9821	sce_8623	8.00E-129	4.00E-131
SCE1572_9822	sce_8624	3.00E-129	5.00E-132
SCE1572_9823	sce_7836	1.00E-66	2.00E-60
SCE1572_983	sce_742	0.00E+00	0.00E+00
SCE1572_9835	sce_7133	1.00E-84	4.00E-87
SCE1572_9836	sce_8655	2.00E-151	2.00E-151
SCE1572_9837	sce_8650	5.00E-118	2.00E-118
SCE1572_984	sce_744	1.00E-159	1.00E-159
SCE1572_9846	sce_7504	5.00E-14	7.00E-06
SCE1572_9847	sce_8635	0.00E+00	0.00E+00
SCE1572_9849	sce_8638	8.00E-156	4.00E-157
SCE1572_985	sce_745	0.00E+00	0.00E+00
SCE1572_9850	sce_6016	6.00E-14	5.00E-14
SCE1572_9853	sce_8645	2.00E-168	2.00E-171
SCE1572_9854	sce_8657	0.00E+00	0.00E+00
SCE1572_9855	sce_8658	0.00E+00	0.00E+00
SCE1572_9856	sce_2572	9.00E-90	8.00E-90
SCE1572_9857	sce_8667	0.00E+00	0.00E+00
SCE1572_9858	sce_8668	7.00E-77	3.00E-98
SCE1572_9859	sce_8669	0.00E+00	0.00E+00
SCE1572_986	sce_747	0.00E+00	0.00E+00
SCE1572_9860	sce_6222	0.00E+00	0.00E+00
SCE1572_9860	sce_4708	0.00E+00	0.00E+00
SCE1572_9863	sce_10287	1.00E-10	2.00E-12
SCE1572_9864	sce_8675	1.00E-100	7.00E-101
SCE1572_9865	sce_8676	0.00E+00	0.00E+00
SCE1572_9866	sce_8677	0.00E+00	0.00E+00
SCE1572_9867	sce_8678	2.00E-119	4.00E-104
SCE1572_9868	sce_8679	1.00E-125	6.00E-142
SCE1572_9869	sce_8680	1.00E-166	1.00E-164
SCE1572_987	sce_749	2.00E-180	0.00E+00
SCE1572_9870	sce_8681	1.00E-69	3.00E-68
SCE1572_9871	sce_8682	2.00E-161	0.00E+00
SCE1572_9872	sce_8685	2.00E-111	2.00E-111
SCE1572_9873	sce_9440	9.00E-94	1.00E-93
SCE1572_9874	sce_9439	4.00E-132	6.00E-123
SCE1572_9876	sce_8692	1.00E-34	1.00E-35
SCE1572_9880	sce_5093	2.00E-32	9.00E-20
SCE1572_9882	sce_2092	3.00E-100	3.00E-100
SCE1572_9885	sce_8696	7.00E-154	2.00E-154

SCE1572_9886	sce_8697	0.00E+00	0.00E+00
SCE1572_9887	sce_8698	2.00E-122	2.00E-118
SCE1572_9888	sce_8699	0.00E+00	0.00E+00
SCE1572_9889	sce_8700	0.00E+00	0.00E+00
SCE1572_9890	sce_8701	0.00E+00	0.00E+00
SCE1572_9892	sce_8703	5.00E-07	1.00E-11
SCE1572_9893	sce_8704	0.00E+00	0.00E+00
SCE1572_9894	sce_8705	2.00E-06	8.00E-15
SCE1572_9895	sce_8706	0.00E+00	0.00E+00
SCE1572_9898	sce_8708	2.00E-83	2.00E-83
SCE1572_9899	sce_8709	6.00E-79	8.00E-80
SCE1572_990	sce_750	0.00E+00	0.00E+00
SCE1572_9900	sce_8710	0.00E+00	0.00E+00
SCE1572_9902	sce_8712	4.00E-136	9.00E-127
SCE1572_9903	sce_8713	0.00E+00	0.00E+00
SCE1572_9904	sce_7561	1.00E-30	1.00E-31
SCE1572_9907	sce_8718	0.00E+00	0.00E+00
SCE1572_9908	sce_8719	0.00E+00	0.00E+00
SCE1572_9910	sce_8720	8.00E-91	6.00E-93
SCE1572_9911	sce_8721	1.00E-140	1.00E-142
SCE1572_9912	sce_8722	4.00E-47	5.00E-44
SCE1572_9914	sce_8724	8.00E-26	8.00E-29
SCE1572_9915	sce_8725	0.00E+00	0.00E+00
SCE1572_9916	sce_8726	0.00E+00	0.00E+00
SCE1572_9917	sce_8727	3.00E-97	7.00E-97
SCE1572_992	sce_752	0.00E+00	0.00E+00
SCE1572_9920	sce_3794	0.00E+00	0.00E+00
SCE1572_9921	sce_8730	0.00E+00	0.00E+00
SCE1572_9923	sce_8731	0.00E+00	0.00E+00
SCE1572_9924	sce_8732	0.00E+00	0.00E+00
SCE1572_9924	sce_5721	0.00E+00	0.00E+00
SCE1572_9926	sce_8733	1.00E-61	9.00E-63
SCE1572_9927	sce_8734	0.00E+00	0.00E+00
SCE1572_9928	sce_8735	3.00E-50	6.00E-40
SCE1572_993	sce_753	4.00E-105	3.00E-116
SCE1572_9930	sce_8737	0.00E+00	0.00E+00
SCE1572_9931	sce_8738	4.00E-64	5.00E-71
SCE1572_9935	sce_8739	1.00E-34	2.00E-42
SCE1572_9936	sce_8740	6.00E-96	1.00E-95
SCE1572_9939	sce_6035	1.00E-71	3.00E-80
SCE1572_9942	sce_8792	2.00E-167	2.00E-167
SCE1572_9943	sce_8791	3.00E-70	2.00E-69
SCE1572_9946	sce_3894	5.00E-20	4.00E-16
SCE1572_9949	sce_6031	2.00E-46	2.00E-46
SCE1572_9950	sce_8747	2.00E-160	3.00E-150
SCE1572_9951	sce_8748	1.00E-110	1.00E-102
SCE1572_9952	sce_8750	2.00E-124	1.00E-133
SCE1572_9953	sce_7598	0.00E+00	0.00E+00
SCE1572_9954	sce_7599	0.00E+00	0.00E+00
SCE1572_9955	sce_7600	5.00E-150	2.00E-144
SCE1572_9956	sce_7601	2.00E-100	2.00E-100
SCE1572_9957	sce_7602	3.00E-22	3.00E-22
SCE1572_9958	sce_7603	8.00E-62	1.00E-65
SCE1572_9959	sce_9664	0.00E+00	0.00E+00
SCE1572_996	sce_754	0.00E+00	0.00E+00
SCE1572_9960	sce_9662	0.00E+00	0.00E+00
SCE1572_9963	sce_8755	0.00E+00	0.00E+00
SCE1572_9963	sce_8753	0.00E+00	0.00E+00
SCE1572_9963	sce_7818	0.00E+00	0.00E+00
SCE1572_9963	sce_7815	0.00E+00	0.00E+00
SCE1572_9964	sce_8755	0.00E+00	0.00E+00
SCE1572_9964	sce_7818	0.00E+00	0.00E+00
SCE1572_9964	sce_8753	0.00E+00	0.00E+00
SCE1572_9964	sce_7814	0.00E+00	0.00E+00
SCE1572_9964	sce_7815	0.00E+00	0.00E+00
SCE1572_9966	sce_3146	3.00E-10	4.00E-12
SCE1572_9967	sce_8760	0.00E+00	8.00E-173
SCE1572_9968	sce_8762	2.00E-43	6.00E-52
SCE1572_9969	sce_8763	1.00E-69	2.00E-75
SCE1572_997	sce_755	3.00E-115	6.00E-112
SCE1572_9970	sce_8765	6.00E-41	6.00E-44
SCE1572_9971	sce_8766	5.00E-133	6.00E-133
SCE1572_9972	sce_8767	3.00E-111	2.00E-107
SCE1572_9973	sce_8768	0.00E+00	0.00E+00
SCE1572_9974	sce_8770	9.00E-109	5.00E-93
SCE1572_9975	sce_8771	0.00E+00	0.00E+00

SCE1572_9977	sce_8773	8.00E-165	2.00E-167
SCE1572_998	sce_756	9.00E-149	3.00E-153
SCE1572_9980	sce_8776	4.00E-101	1.00E-110
SCE1572_9981	sce_8777	0.00E+00	0.00E+00
SCE1572_9982	sce_8778	0.00E+00	0.00E+00
SCE1572_9983	sce_7926	0.00E+00	0.00E+00
SCE1572_9984	sce_8784	9.00E-157	5.00E-157
SCE1572_9985	sce_5809	9.00E-49	2.00E-52
SCE1572_9986	sce_5808	4.00E-152	4.00E-146
SCE1572_9987	sce_8796	2.00E-137	7.00E-137
SCE1572_9988	sce_8797	1.00E-57	2.00E-56
SCE1572_9989	sce_8798	0.00E+00	0.00E+00
SCE1572_9990	sce_8799	3.00E-71	2.00E-109
SCE1572_9991	sce_8803	0.00E+00	0.00E+00
SCE1572_9996	sce_8812	0.00E+00	3.00E-164
SCE1572_9997	sce_8818	0.00E+00	0.00E+00
SCE1572_9998	sce_8820	2.00E-122	1.00E-124
SCE1572_9999	sce_8821	1.00E-127	5.00E-135

TableS8 A comparison of KEGG categories for So0157-2 and So ce56

Presence[*]	Category	Subcategory	Subsystem	Role	Organism A	Active in organism A	Organism B	Active in organism B
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Alanine racemase (EC 5.1.1.1)	SCE1572_9334	yes	sce_8113	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	SCE1572_354	yes	sce_195	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Chaperone protein HscA	SCE1572_9421	yes	sce_8208	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Cysteine desulfurase (EC 2.8.1.7)	SCE1572_1872	yes	sce_1345	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Cysteine desulfurase (EC 2.8.1.7), IscS subfamily	SCE1572_9417	yes	sce_8204	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Cysteine desulfurase (EC 2.8.1.7), SufS subfamily	SCE1572_10250	yes	sce_5192	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Ferredoxin, 2Fe-2S	SCE1572_9111	yes	sce_7893	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Iron binding protein IscA for iron-sulfur cluster assembly	SCE1572_9419	yes	sce_8206	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Iron-sulfur cluster assembly scaffold protein IscU	SCE1572_9418	yes	sce_8205	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Iron-sulfur cluster regulator IscR	SCE1572_7588	yes	sce_6444	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Alanine biosynthesis	Valine--pyruvate aminotransferase (EC 2.6.1.66)	SCE1572_1439	yes	sce_6322	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine Biosynthesis	2-amino-3-ketobutyrate coenzyme A ligase (EC 2.3.1.29)	SCE1572_9365	yes	sce_8145	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine Biosynthesis	L-threonine 3-dehydrogenase (EC 1.1.1.103)	SCE1572_9364	yes	sce_8144	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine Biosynthesis	Low-specificity L-threonine aldolase (EC 4.1.2.5)	SCE1572_2736	yes	sce_2275	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine Biosynthesis	Serine hydroxymethyltransferase (EC 2.1.2.1)	SCE1572_8655	yes	sce_7370	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	2-amino-3-ketobutyrate coenzyme A ligase (EC 2.3.1.29)	SCE1572_9365	yes	sce_8145	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Aminomethyltransferase (glycine cleavage system T protein) (EC 2.1.2.	SCE1572_2704	yes	sce_2242	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Cystathionine beta-synthase (EC 4.2.1.22)	SCE1572_693	yes	sce_496	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Cystathionine gamma-lyase (EC 4.4.1.1)	SCE1572_164	yes	sce_6912	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)	SCE1572_1389	yes	sce_1692	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Glycine cleavage system H protein	SCE1572_2703	yes	sce_2241	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P1	SCE1572_2702	yes	sce_2240	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P2	SCE1572_8088	yes	sce_10237	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	L-serine dehydratase (EC 4.3.1.17)	SCE1572_2497	yes	sce_2075	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Phosphoserine aminotransferase (EC 2.6.1.52)	SCE1572_5915	yes	sce_4919	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Phosphoserine phosphatase (EC 3.1.3.3)	SCE1572_985	yes	sce_745	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Serine hydroxymethyltransferase (EC 2.1.2.1)	SCE1572_8655	yes	sce_7370	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Seryl-tRNA synthetase (EC 6.1.1.11)	SCE1572_10462	yes	sce_9101	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine and Serine Utilization	Threonine dehydratase, catabolic (EC 4.3.1.19)	SCE1572_5116	yes	sce_4304	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine cleavage system	Aminomethyltransferase (glycine cleavage system T protein) (EC 2.1.2.	SCE1572_2704	yes	sce_2242	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine cleavage system	Glycine cleavage system H protein	SCE1572_2703	yes	sce_2241	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine cleavage system	Glycine cleavage system transcriptional activator GcvA	SCE1572_1245	yes	sce_5041	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine cleavage system	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P1	SCE1572_2702	yes	sce_2240	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine cleavage system	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P2	SCE1572_8088	yes	sce_10237	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Serine Biosynthesis	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)	SCE1572_1389	yes	sce_1692	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Serine Biosynthesis	Phosphoserine aminotransferase (EC 2.6.1.52)	SCE1572_5915	yes	sce_4919	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Serine Biosynthesis	Phosphoserine phosphatase (EC 3.1.3.3)	SCE1572_985	yes	sce_745	yes
A and B	Amino Acids and Derivatives	Alanine, serine, and glycine	Serine Biosynthesis	Serine hydroxymethyltransferase (EC 2.1.2.1)	SCE1572_8655	yes	sce_7370	yes
B	Amino Acids and Derivatives	Alanine, serine, and glycine	Glycine cleavage system	Glycine cleavage system transcriptional antiactivator GcvR		no	sce_9889	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	Acetylglutamate kinase (EC 2.7.2.8)	SCE1572_92	yes	sce_81	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	Argininosuccinate lyase (EC 4.3.2.1)	SCE1572_2405	yes	sce_1959	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	Argininosuccinate synthase (EC 6.3.4.5)	SCE1572_6795	yes	sce_5654	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	Glutamate N-acetyltransferase (EC 2.3.1.35)	SCE1572_3887	yes	sce_3211	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	N-acetyl-gamma-glutamyl-phosphate reductase (EC 1.2.1.38)	SCE1572_6683	yes	sce_5564	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	N-acetylglutamate synthase (EC 2.3.1.1)	SCE1572_3887	yes	sce_3211	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	N-acetylornithine carbamoyltransferase (EC 2.1.3.9)	SCE1572_93	yes	sce_82	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	N-succinyl-L,L-diaminopimelate desuccinylase (EC 3.5.1.18)	SCE1572_3985	yes	sce_3316	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	Ornithine carbamoyltransferase (EC 2.1.3.3)	SCE1572_9212	yes	sce_8013	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis extended	Acetylglutamate kinase (EC 2.7.2.8)	SCE1572_92	yes	sce_81	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis extended	Argininosuccinate lyase (EC 4.3.2.1)	SCE1572_2405	yes	sce_1959	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis extended	Argininosuccinate synthase (EC 6.3.4.5)	SCE1572_6795	yes	sce_5654	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis extended	Glutamate N-acetyltransferase (EC 2.3.1.35)	SCE1572_3887	yes	sce_3211	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis extended	N-acetyl-gamma-glutamyl-phosphate reductase (EC 1.2.1.38)	SCE1572_6683	yes	sce_5564	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis extended	N-acetylglutamate synthase (EC 2.3.1.1)	SCE1572_3887	yes	sce_3211	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis extended	N-acetylornithine carbamoyltransferase (EC 2.1.3.9)	SCE1572_93	yes	sce_82	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis extended	N-succinyl-L,L-diaminopimelate desuccinylase (EC 3.5.1.18)	SCE1572_3985	yes	sce_3316	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis extended	Ornithine carbamoyltransferase (EC 2.1.3.3)	SCE1572_9212	yes	sce_8013	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	Agmatinase (EC 3.5.3.11)	SCE1572_47	yes	sce_46	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	Arginine N-succinyltransferase (EC 2.3.1.109)	SCE1572_2280	yes	sce_1826	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	Arginine decarboxylase (EC 4.1.1.19)	SCE1572_8115	yes	sce_93	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	Biosynthetic arginine decarboxylase (EC 4.1.1.19)	SCE1572_3252	yes	sce_2748	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	Delta-1-pyrroline-5-carboxylate dehydrogenase (EC 1.5.1.12)	SCE1572_6031	yes	sce_4984	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	N-carbamoylputrescine amidase (3.5.1.53)	SCE1572_8402	yes	sce_7162	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	NADP-specific glutamate dehydrogenase (EC 1.4.1.4)	SCE1572_1504	yes	sce_6937	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	Ornithine carbamoyltransferase (EC 2.1.3.3)	SCE1572_9212	yes	sce_8013	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	Ornithine cyclodeaminase (EC 4.3.1.12)	SCE1572_3173	yes	sce_2667	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	Succinylglutamic semialdehyde dehydrogenase (EC 1.2.1.71)	SCE1572_1008	yes	sce_761	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	Succinylornithine transaminase (EC 2.6.1.81)	SCE1572_5	yes	sce_5	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Polyamine Metabolism	ABC transporter, periplasmic spermidine putrescine-binding protein Pot	SCE1572_11387	yes	sce_10223	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Polyamine Metabolism	Agmatinase (EC 3.5.3.11)	SCE1572_47	yes	sce_46	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Polyamine Metabolism	Arginine decarboxylase (EC 4.1.1.19)	SCE1572_8115	yes	sce_93	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Polyamine Metabolism	Biosynthetic arginine decarboxylase (EC 4.1.1.19)	SCE1572_3252	yes	sce_2748	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Polyamine Metabolism	N-carbamoylputrescine amidase (3.5.1.53)	SCE1572_8402	yes	sce_7162	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Polyamine Metabolism	Putrescine transport ATP-binding protein PotA (TC 3.A.1.11.1)	SCE1572_11392	yes	sce_10231	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Polyamine Metabolism	S-adenosylmethionine decarboxylase proenzyme (EC 4.1.1.50), prokar	SCE1572_7524	yes	sce_6348	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Polyamine Metabolism	Spermidine Putrescine ABC transporter permease component PotB (TC	SCE1572_11391	yes	sce_10230	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Polyamine Metabolism	Spermidine Putrescine ABC transporter permease component potC (TC	SCE1572_11390	yes	sce_10229	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Polyamine Metabolism	Spermidine synthase (EC 2.5.1.16)	SCE1572_507	yes	sce_1673	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea carboxylase and Allophanate hydrolase cluster	Urea carboxylase (EC 6.3.4.6)	SCE1572_6544	yes	sce_5500	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Nickel transporter UreH	SCE1572_1803	yes	sce_6510	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea ABC transporter, ATPase protein UrtD	SCE1572_7464	yes	sce_6249	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea ABC transporter, ATPase protein UrtE	SCE1572_7465	yes	sce_6250	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea ABC transporter, permease protein UrtB	SCE1572_7462	yes	sce_6247	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea ABC transporter, permease protein UrtC	SCE1572_7463	yes	sce_6248	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea ABC transporter, substrate binding protein UrtA	SCE1572_7461	yes	sce_6246	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea carboxylase (EC 6.3.4.6)	SCE1572_6544	yes	sce_5500	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea carboxylase-related ABC transporter, ATPase protein	SCE1572_4525	yes	sce_3784	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea carboxylase-related ABC transporter, periplasmic substrate-bindin	SCE1572_4524	yes	sce_2159	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea carboxylase-related ABC transporter, permease protein	SCE1572_4526	yes	sce_3785	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea carboxylase-related amino acid permease	SCE1572_6545	yes	sce_5501	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urea carboxylase-related aminomethyltransferase (EC 2.1.2.10)	SCE1572_6542	yes	sce_5498	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urease accessory protein UreD	SCE1572_3069	yes	sce_7327	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urease accessory protein UreF	SCE1572_3073	yes	sce_7330	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urease accessory protein UreG	SCE1572_3074	yes	sce_7331	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urease alpha subunit (EC 3.5.1.5)	SCE1572_3071	yes	sce_7329	yes
A and B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Urea decomposition	Urease gamma subunit (EC 3.5.1.5)	SCE1572_3070	yes	sce_7328	yes
A	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	Acetylornithine aminotransferase (EC 2.6.1.11)	SCE1572_10277	yes		no
A	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine Biosynthesis -- gjo	Acetylornithine deacetylase (EC 3.5.1.16)	SCE1572_5459	yes		no
A	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Cyanophycin Metabolism	Cyanophycin synthase (EC 6.3.2.29)(EC 6.3.2.30)	SCE1572_9183	yes		no
A	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Cyanophycin Metabolism	Cyanophycinase (EC 3.4.15.6)	SCE1572_9182	yes		no
B	Amino Acids and Derivatives	Arginine; urea cycle, polyamines	Arginine and Ornithine Degradation	Ornithine decarboxylase (EC 4.1.1.17)		no	sce_93	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Aromatic amino acid degradation	4-hydroxyphenylpyruvate dioxygenase (EC 1.13.11.27)	SCE1572_4318	yes	sce_5475	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Aromatic amino acid degradation	5-carboxymethyl-2-hydroxymuconate semialdehyde dehydrogenase (E	SCE1572_11413	yes	sce_10270	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Aromatic amino acid degradation	Aromatic-L-amino-acid decarboxylase (EC 4.1.1.28)	SCE1572_1105	yes	sce_2563	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Aromatic amino acid degradation	Kynurenine formamidase, bacterial (EC 3.5.1.9)	SCE1572_4334	yes	sce_1451	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Aromatic amino acid degradation	Tryptophan 2,3-dioxygenase (EC 1.13.11.11)	SCE1572_10736	yes	sce_9394	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Anthranilate phosphoribosyltransferase (EC 2.4.2.18)	SCE1572_1717	yes	sce_1230	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Anthranilate synthase, amidotransferase component (EC 4.1.3.27)	SCE1572_266	yes	sce_5652	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Anthranilate synthase, aminase component (EC 4.1.3.27)	SCE1572_6793	yes	sce_5652	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Indole-3-glycerol phosphate synthase (EC 4.1.1.48)	SCE1572_1718	yes	sce_1231	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Isochorismatase (EC 3.3.2.1)	SCE1572_5977	yes	sce_4937	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Isochorismatase (EC 3.3.2.1) of siderophore biosynthesis	SCE1572_5181	yes	sce_4342	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Isochorismate synthase (EC 5.4.4.2) of siderophore biosynthesis	SCE1572_5180	yes	sce_4340	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Para-aminobenzoate synthase, aminase component (EC 2.6.1.85)	SCE1572_265	yes	sce_697	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Phosphoribosylanthranilate isomerase (EC 5.3.1.24)	SCE1572_1718	yes	sce_1231	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isom	SCE1572_3830	yes	sce_3157	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Tryptophan synthase alpha chain (EC 4.2.1.20)	SCE1572_1720	yes	sce_1233	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Tryptophan synthase beta chain (EC 4.2.1.20)	SCE1572_1719	yes	sce_1232	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	2-keto-3-deoxy-D-arabino-heptulosonate-7-phosphate synthase I alpha	SCE1572_3307	yes	sce_2798	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	2-keto-3-deoxy-D-arabino-heptulosonate-7-phosphate synthase II (EC	SCE1572_4918	yes	sce_4129	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	3-dehydroquinate dehydratase I (EC 4.2.1.10)	SCE1572_5233	yes	sce_4388	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	3-dehydroquinate synthase (EC 4.2.3.4)	SCE1572_1355	yes	sce_980	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	5-Enolpyruvylshikimate-3-phosphate synthase (EC 2.5.1.19)	SCE1572_4080	yes	sce_3406	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	Chorismate mutase I (EC 5.4.99.5)	SCE1572_1885	yes	sce_1401	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	Chorismate synthase (EC 4.2.3.5)	SCE1572_6397	yes	sce_5416	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	Prephenate and/or arogenate dehydrogenase (unknown specificity) (EC	SCE1572_1885	yes	sce_1401	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	Prephenate dehydratase (EC 4.2.1.51)	SCE1572_2392	yes	sce_1945	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	Shikimate 5-dehydrogenase I alpha (EC 1.1.1.25)	SCE1572_3015	yes	sce_2476	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	Shikimate 5-dehydrogenase I gamma (EC 1.1.1.25)	SCE1572_2281	yes	sce_1827	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate Synthesis	Shikimate kinase I (EC 2.7.1.71)	SCE1572_6396	yes	sce_5415	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Common Pathway For Synthesis of Aromatic Compounds (DA	2-keto-3-deoxy-D-arabino-heptulosonate-7-phosphate synthase I alpha	SCE1572_3307	yes	sce_2798	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Common Pathway For Synthesis of Aromatic Compounds (DA	2-keto-3-deoxy-D-arabino-heptulosonate-7-phosphate synthase II (EC	SCE1572_4918	yes	sce_4129	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Common Pathway For Synthesis of Aromatic Compounds (DA	3-dehydroquinate dehydratase I (EC 4.2.1.10)	SCE1572_5233	yes	sce_4388	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Common Pathway For Synthesis of Aromatic Compounds (DA	3-dehydroquinate synthase (EC 4.2.3.4)	SCE1572_1355	yes	sce_980	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Common Pathway For Synthesis of Aromatic Compounds (DA	5-Enolpyruvylshikimate-3-phosphate synthase (EC 2.5.1.19)	SCE1572_4080	yes	sce_3406	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Common Pathway For Synthesis of Aromatic Compounds (DA	Chorismate synthase (EC 4.2.3.5)	SCE1572_6397	yes	sce_5416	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Common Pathway For Synthesis of Aromatic Compounds (DA	Shikimate 5-dehydrogenase I alpha (EC 1.1.1.25)	SCE1572_3015	yes	sce_2476	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Common Pathway For Synthesis of Aromatic Compounds (DA	Shikimate 5-dehydrogenase I gamma (EC 1.1.1.25)	SCE1572_2281	yes	sce_1827	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Common Pathway For Synthesis of Aromatic Compounds (DA	Shikimate kinase I (EC 2.7.1.71)	SCE1572_6396	yes	sce_5415	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Phenylalanine and Tyrosine Branches from Chorismate	Biosynthetic Aromatic amino acid aminotransferase beta (EC 2.6.1.57)	SCE1572_4073	yes	sce_3398	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Phenylalanine and Tyrosine Branches from Chorismate	Chorismate mutase I (EC 5.4.99.5)	SCE1572_1885	yes	sce_1401	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Phenylalanine and Tyrosine Branches from Chorismate	Prephenate and/or arogenate dehydrogenase (unknown specificity) (EC	SCE1572_1885	yes	sce_1401	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Phenylalanine and Tyrosine Branches from Chorismate	Prephenate dehydratase (EC 4.2.1.51)	SCE1572_2392	yes	sce_1945	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Tryptophan synthesis	Anthranilate phosphoribosyltransferase (EC 2.4.2.18)	SCE1572_1717	yes	sce_1230	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Tryptophan synthesis	Anthranilate synthase, amidotransferase component (EC 4.1.3.27)	SCE1572_266	yes	sce_5652	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Tryptophan synthesis	Anthranilate synthase, aminase component (EC 4.1.3.27)	SCE1572_6793	yes	sce_5652	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Tryptophan synthesis	Indole-3-glycerol phosphate synthase (EC 4.1.1.48)	SCE1572_1718	yes	sce_1231	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Tryptophan synthesis	Phosphoribosylanthranilate isomerase (EC 5.3.1.24)	SCE1572_1718	yes	sce_1231	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Tryptophan synthesis	Tryptophan synthase alpha chain (EC 4.2.1.20)	SCE1572_1720	yes	sce_1233	yes
A and B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Tryptophan synthesis	Tryptophan synthase beta chain (EC 4.2.1.20)	SCE1572_1719	yes	sce_1232	yes
B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Aromatic amino acid degradation	Phenylalanine-4-hydroxylase (EC 1.14.16.1)		no	sce_5898	yes
B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Aromatic amino acid degradation	Tryptophan 2-monooxygenase (EC 1.13.12.3)		no	sce_10227	yes
B	Amino Acids and Derivatives	Aromatic amino acids and derivatives	Chorismate: Intermediate for synthesis of Tryptophan, PAPA a	Para-aminobenzoate synthase, amidotransferase component (EC 2.6.1.85)		no	sce_5651	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	(R)-citramalate synthase (EC 2.3.1.182)	SCE1572_4977	yes	sce_4186	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	2-isopropylmalate synthase (EC 2.3.3.13)	SCE1572_4976	yes	sce_4185	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	3-isopropylmalate dehydratase large subunit (EC 4.2.1.33)	SCE1572_108	yes	sce_96	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	3-isopropylmalate dehydratase small subunit (EC 4.2.1.33)	SCE1572_107	yes	sce_95	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	3-isopropylmalate dehydrogenase (EC 1.1.1.85)	SCE1572_4978	yes	sce_4187	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	Acetolactate synthase large subunit (EC 2.2.1.6)	SCE1572_311	yes	sce_4182	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	Acetolactate synthase small subunit (EC 2.2.1.6)	SCE1572_4974	yes	sce_4183	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	SCE1572_354	yes	sce_195	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	Dihydroxy-acid dehydratase (EC 4.2.1.9)	SCE1572_7255	yes	sce_1693	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	Ketol-acid reductoisomerase (EC 1.1.1.86)	SCE1572_4975	yes	sce_4184	yes

A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	Leucine dehydrogenase (EC 1.4.1.9)	SCE1572_8281	yes	sce_6950	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	Threonine dehydratase, catabolic (EC 4.3.1.19)	SCE1572_5116	yes	sce_4304	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	Valine--pyruvate aminotransferase (EC 2.6.1.66)	SCE1572_1439	yes	sce_6322	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Biotin carboxyl carrier protein of methylcrotonyl-CoA carboxylase	SCE1572_4933	yes	sce_4144	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha s	SCE1572_2201	yes	sce_1748	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Branched-chain alpha-keto acid dehydrogenase, E1 component, beta su	SCE1572_2200	yes	sce_1747	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	SCE1572_354	yes	sce_195	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Dihydrolipoamide acyltransferase component of branched-chain alpha-l	SCE1572_2199	yes	sce_1746	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Hydroxymethylglutaryl-CoA lyase (EC 4.1.3.4)	SCE1572_5790	yes	sce_4837	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Hydroxymethylglutaryl-CoA reductase (EC 1.1.1.34)	SCE1572_4053	yes	sce_3379	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Hydroxymethylglutaryl-CoA synthase (EC 2.3.3.10)	SCE1572_864	yes	sce_3568	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Isovaleryl-CoA dehydrogenase (EC 1.3.99.10)	SCE1572_8971	yes	sce_7733	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Leucine dehydrogenase (EC 1.4.1.9)	SCE1572_8281	yes	sce_6950	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)	SCE1572_2729	yes	sce_2267	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Methylcrotonyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.	SCE1572_3419	yes	sce_2906	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Methylglutaconyl-CoA hydratase (EC 4.2.1.18)	SCE1572_861	yes	sce_1987	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit A (EC 2.8.3.	SCE1572_7617	yes	sce_6477	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG-CoA	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit B (EC 2.8.3.	SCE1572_7618	yes	sce_6478	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG CoA Synthesis	Biotin carboxyl carrier protein of methylcrotonyl-CoA carboxylase	SCE1572_4933	yes	sce_4144	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG CoA Synthesis	Hydroxymethylglutaryl-CoA lyase (EC 4.1.3.4)	SCE1572_5790	yes	sce_4837	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG CoA Synthesis	Isovaleryl-CoA dehydrogenase (EC 1.3.99.10)	SCE1572_8971	yes	sce_7733	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG CoA Synthesis	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)	SCE1572_2729	yes	sce_2267	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG CoA Synthesis	Methylcrotonyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.	SCE1572_3419	yes	sce_2906	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	HMG CoA Synthesis	Methylglutaconyl-CoA hydratase (EC 4.2.1.18)	SCE1572_861	yes	sce_1987	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)	SCE1572_60	yes	sce_50	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	3-ketoacyl-CoA thiolase (EC 2.3.1.16)	SCE1572_61	yes	sce_51	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	Acyl-CoA dehydrogenase, short-chain specific (EC 1.3.99.2)	SCE1572_1837	yes	sce_1299	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha s	SCE1572_2201	yes	sce_1748	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	Branched-chain alpha-keto acid dehydrogenase, E1 component, beta su	SCE1572_2200	yes	sce_1747	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	SCE1572_354	yes	sce_195	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	SCE1572_1711	yes	sce_1225	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	Dihydrolipoamide acyltransferase component of branched-chain alpha-l	SCE1572_2199	yes	sce_1746	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	Enoyl-CoA hydratase (EC 4.2.1.17)	SCE1572_60	yes	sce_50	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	Enoyl-CoA hydratase [isoleucine degradation] (EC 4.2.1.17)	SCE1572_9647	yes	sce_8458	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Isoleucine degradation	Transcriptional regulator BkdR of isoleucine and valine catabolism oper	SCE1572_3384	yes	sce_2871	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Biosynthesis	2-isopropylmalate synthase (EC 2.3.3.13)	SCE1572_4976	yes	sce_4185	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Biosynthesis	3-isopropylmalate dehydratase large subunit (EC 4.2.1.33)	SCE1572_108	yes	sce_96	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Biosynthesis	3-isopropylmalate dehydratase small subunit (EC 4.2.1.33)	SCE1572_107	yes	sce_95	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Biosynthesis	3-isopropylmalate dehydrogenase (EC 1.1.1.85)	SCE1572_4978	yes	sce_4187	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Biosynthesis	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	SCE1572_354	yes	sce_195	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Biotin carboxyl carrier protein of methylcrotonyl-CoA carboxylase	SCE1572_4933	yes	sce_4144	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha s	SCE1572_2201	yes	sce_1748	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Branched-chain alpha-keto acid dehydrogenase, E1 component, beta su	SCE1572_2200	yes	sce_1747	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	SCE1572_354	yes	sce_195	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Dihydrolipoamide acyltransferase component of branched-chain alpha-l	SCE1572_2199	yes	sce_1746	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Hydroxymethylglutaryl-CoA lyase (EC 4.1.3.4)	SCE1572_5790	yes	sce_4837	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Hydroxymethylglutaryl-CoA reductase (EC 1.1.1.34)	SCE1572_4053	yes	sce_3379	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Hydroxymethylglutaryl-CoA synthase (EC 2.3.3.10)	SCE1572_864	yes	sce_3568	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Isovaleryl-CoA dehydrogenase (EC 1.3.99.10)	SCE1572_8971	yes	sce_7733	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Leucine dehydrogenase (EC 1.4.1.9)	SCE1572_8281	yes	sce_6950	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)	SCE1572_2729	yes	sce_2267	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Methylcrotonyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.	SCE1572_3419	yes	sce_2906	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Methylglutaconyl-CoA hydratase (EC 4.2.1.18)	SCE1572_861	yes	sce_1987	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit A (EC 2.8.3.	SCE1572_7617	yes	sce_6477	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Leucine Degradation and HMG-CoA Metabolism	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit B (EC 2.8.3.	SCE1572_7618	yes	sce_6478	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Valine degradation	3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)	SCE1572_60	yes	sce_50	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Valine degradation	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha s	SCE1572_2201	yes	sce_1748	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Valine degradation	Branched-chain alpha-keto acid dehydrogenase, E1 component, beta su	SCE1572_2200	yes	sce_1747	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Valine degradation	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	SCE1572_354	yes	sce_195	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Valine degradation	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	SCE1572_1711	yes	sce_1225	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Valine degradation	Dihydrolipoamide acyltransferase component of branched-chain alpha-l	SCE1572_2199	yes	sce_1746	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Valine degradation	Enoyl-CoA hydratase (EC 4.2.1.17)	SCE1572_60	yes	sce_50	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Valine degradation	Methylmalonate-semialdehyde dehydrogenase (EC 1.2.1.27)	SCE1572_5449	yes	sce_7163	yes
A and B	Amino Acids and Derivatives	Branched-chain amino acids	Valine degradation	Transcriptional regulator BkdR of isoleucine and valine catabolism oper	SCE1572_3384	yes	sce_2871	yes
B	Amino Acids and Derivatives	Branched-chain amino acids	Branched-Chain Amino Acid Biosynthesis	Leucine-responsive regulatory protein, regulator for leucine (or lrp) regulon and high-affinity branch		no	sce_6297	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamate and Aspartate uptake in Bacteria	Asparagine synthetase [glutamine-hydrolyzing] (EC 6.3.5.4)	SCE1572_5095	yes	sce_2297	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamate and Aspartate uptake in Bacteria	Sodium/glutamate symport protein	SCE1572_4740	yes	sce_3961	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamate dehydrogenases	NAD-specific glutamate dehydrogenase (EC 1.4.1.2)	SCE1572_5775	yes	sce_4821	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamate dehydrogenases	NADP-specific glutamate dehydrogenase (EC 1.4.1.4)	SCE1572_1504	yes	sce_6937	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	Asparagine synthetase [glutamine-hydrolyzing] (EC 6.3.5.4)	SCE1572_5095	yes	sce_2297	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	Aspartate aminotransferase (EC 2.6.1.1)	SCE1572_689	yes	sce_1273	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	Aspartate ammonia-lyase (EC 4.3.1.1)	SCE1572_545	yes	sce_352	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	Glutamate racemase (EC 5.1.1.3)	SCE1572_284	yes	sce_5417	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	Glutamate synthase [NADPH] large chain (EC 1.4.1.13)	SCE1572_6809	yes	sce_5669	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	Glutamate synthase [NADPH] small chain (EC 1.4.1.13)	SCE1572_5230	yes	sce_4385	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	Glutamine synthetase type I (EC 6.3.1.2)	SCE1572_9287	yes	sce_8068	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	L-asparaginase (EC 3.5.1.1)	SCE1572_4078	yes	sce_3404	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	NAD-specific glutamate dehydrogenase (EC 1.4.1.2)	SCE1572_5775	yes	sce_4821	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	NADP-specific glutamate dehydrogenase (EC 1.4.1.4)	SCE1572_1504	yes	sce_6937	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	glutamine synthetase family protein	SCE1572_5267	yes	sce_4421	yes
A and B	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine synthetases	Glutamine synthetase type I (EC 6.3.1.2)	SCE1572_9287	yes	sce_8068	yes
A	Amino Acids and Derivatives	Glutamine, glutamate, aspartate, asparagine; ar	Glutamine, Glutamate, Aspartate and Asparagine Biosynthesis	Aspartate racemase (EC 5.1.1.13)	SCE1572_8667	yes		no
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Biosynthesis	ATP phosphoribosyltransferase (EC 2.4.2.17)	SCE1572_11377	yes	sce_10213	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Biosynthesis	ATP phosphoribosyltransferase regulatory subunit (EC 2.4.2.17)	SCE1572_11192	yes	sce_9931	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Biosynthesis	Histidinol dehydrogenase (EC 1.1.1.23)	SCE1572_3264	yes	sce_2759	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Biosynthesis	Histidinol-phosphate aminotransferase (EC 2.6.1.9)	SCE1572_5675	yes	sce_4727	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Biosynthesis	Imidazole glycerol phosphate synthase amidotransferase subunit (EC 2.	SCE1572_3850	yes	sce_3168	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Biosynthesis	Imidazole glycerol phosphate synthase cyclase subunit (EC 4.1.3.-)	SCE1572_7771	yes	sce_6588	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Biosynthesis	Imidazoleglycerol-phosphate dehydratase (EC 4.2.1.19)	SCE1572_3851	yes	sce_3169	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Biosynthesis	Phosphoribosyl-AMP cyclohydrolase (EC 3.5.4.19)	SCE1572_641	yes	sce_450	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Biosynthesis	Phosphoribosyl-ATP pyrophosphatase (EC 3.6.1.31)	SCE1572_641	yes	sce_450	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Biosynthesis	Phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isom	SCE1572_3830	yes	sce_3157	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Degradation	Formiminoglutamic iminohydrolase (EC 3.5.3.13)	SCE1572_1551	yes	sce_1078	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Degradation	Histidine ammonia-lyase (EC 4.3.1.3)	SCE1572_8014	yes	sce_6803	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Degradation	Imidazolonepropionase (EC 3.5.2.7)	SCE1572_5759	yes	sce_4807	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Degradation	N-formylglutamate deformylase (EC 3.5.1.68)	SCE1572_5999	yes	sce_4951	yes
A and B	Amino Acids and Derivatives	Histidine Metabolism	Histidine Degradation	Urocanate hydratase (EC 4.2.1.49)	SCE1572_10157	yes	sce_8960	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Adenylylsulfate kinase (EC 2.7.1.25)	SCE1572_7923	yes	sce_6720	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Cystathionine beta-synthase (EC 4.2.1.22)	SCE1572_693	yes	sce_496	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Cystathionine gamma-lyase (EC 4.4.1.1)	SCE1572_164	yes	sce_6912	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Cysteine synthase (EC 2.5.1.47)	SCE1572_3174	yes	sce_3947	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Phosphoadenylyl-sulfate reductase [thioredoxin] (EC 1.8.4.8)	SCE1572_10665	yes	sce_9273	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Serine acetyltransferase (EC 2.3.1.30)	SCE1572_4722	yes	sce_3948	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Sulfate and thiosulfate binding protein CysP	SCE1572_560	yes	sce_363	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Sulfate and thiosulfate import ATP-binding protein CysA (EC 3.6.3.25)	SCE1572_9474	yes	sce_8253	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Sulfate transport system permease protein CysT	SCE1572_561	yes	sce_364	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Sulfate transport system permease protein CysW	SCE1572_562	yes	sce_365	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Sulfite reductase [NADPH] hemoprotein beta-component (EC 1.8.1.2)	SCE1572_9694	yes	sce_8504	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-acetyltransferase (EC 2	SCE1572_9431	yes	sce_8220	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase (EC	SCE1572_3984	yes	sce_3315	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway	Aspartate-semialdehyde dehydrogenase (EC 1.2.1.11)	SCE1572_7286	yes	sce_5989	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway	Aspartokinase (EC 2.7.2.4)	SCE1572_3345	yes	sce_2841	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway	Diaminopimelate decarboxylase (EC 4.1.1.20)	SCE1572_7449	yes	sce_6221	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway	Diaminopimelate epimerase (EC 5.1.1.7)	SCE1572_10476	yes	sce_9121	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway	Dihydrodipicolinate reductase (EC 1.3.1.26)	SCE1572_10180	yes	sce_8979	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway	Dihydrodipicolinate synthase (EC 4.2.1.52)	SCE1572_807	yes	sce_8978	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway	N-acetyl-L,L-diaminopimelate deacetylase (EC 3.5.1.47)	SCE1572_6684	yes	sce_2663	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway	N-succinyl-L,L-diaminopimelate desuccinylase (EC 3.5.1.18)	SCE1572_3985	yes	sce_3316	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway, GJO scratch	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-acetyltransferase (EC 2	SCE1572_9431	yes	sce_8220	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway, GJO scratch	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase (EC	SCE1572_3984	yes	sce_3315	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway, GJO scratch	Aspartate-semialdehyde dehydrogenase (EC 1.2.1.11)	SCE1572_7286	yes	sce_5989	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway, GJO scratch	Aspartokinase (EC 2.7.2.4)	SCE1572_3345	yes	sce_2841	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway, GJO scratch	Diaminopimelate decarboxylase (EC 4.1.1.20)	SCE1572_7449	yes	sce_6221	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway, GJO scratch	Diaminopimelate epimerase (EC 5.1.1.7)	SCE1572_10476	yes	sce_9121	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway, GJO scratch	Dihydrodipicolinate reductase (EC 1.3.1.26)	SCE1572_10180	yes	sce_8979	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway, GJO scratch	Dihydrodipicolinate synthase (EC 4.2.1.52)	SCE1572_807	yes	sce_8978	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway, GJO scratch	N-acetyl-L,L-diaminopimelate deacetylase (EC 3.5.1.47)	SCE1572_6684	yes	sce_2663	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine Biosynthesis DAP Pathway, GJO scratch	N-succinyl-L,L-diaminopimelate desuccinylase (EC 3.5.1.18)	SCE1572_3985	yes	sce_3316	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine fermentation	3,5-diaminohexanoate dehydrogenase (EC 1.4.1.11)	SCE1572_3262	yes	sce_2757	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine fermentation	3-aminobutyryl-CoA ammonia-lyase (EC 4.3.1.14)	SCE1572_8263	yes	sce_6934	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine fermentation	3-keto-5-aminohexanoate cleavage enzyme	SCE1572_8263	yes	sce_6934	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine fermentation	Acetyl-CoA acetyltransferase (EC 2.3.1.9)	SCE1572_61	yes	sce_51	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine fermentation	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	SCE1572_1711	yes	sce_1225	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine fermentation	Electron transfer flavoprotein, alpha subunit	SCE1572_934	yes	sce_702	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine fermentation	Electron transfer flavoprotein, beta subunit	SCE1572_935	yes	sce_703	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine fermentation	L-beta-lysine 5,6-aminomutase alpha subunit (EC 5.4.3.3)	SCE1572_3913	yes	sce_3243	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine fermentation	L-beta-lysine 5,6-aminomutase beta subunit (EC 5.4.3.3)	SCE1572_3914	yes	sce_3245	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine fermentation	Lysine 2,3-aminomutase (EC 5.4.3.2)	SCE1572_3246	yes	sce_2741	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	5,10-methylenetetrahydrofolate reductase (EC 1.5.1.20)	SCE1572_7802	yes	sce_6607	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	5-methyltetrahydrofolate--homocysteine methyltransferase (EC 2.1.1.1	SCE1572_5635	yes	sce_5820	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Adenosylhomocysteinase (EC 3.3.1.1)	SCE1572_722	yes	sce_1791	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Cystathionine beta-synthase (EC 4.2.1.22)	SCE1572_693	yes	sce_496	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Cystathionine gamma-lyase (EC 4.4.1.1)	SCE1572_164	yes	sce_6912	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Cystathionine gamma-synthase (EC 2.5.1.48)	SCE1572_9693	yes	sce_8502	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Cysteine synthase (EC 2.5.1.47)	SCE1572_3174	yes	sce_3947	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Homocysteine S-methyltransferase (EC 2.1.1.10)	SCE1572_758	yes	sce_559	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Homoserine dehydrogenase (EC 1.1.1.3)	SCE1572_6399	yes	sce_5418	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Homoserine kinase (EC 2.7.1.39)	SCE1572_633	yes	sce_441	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Methionine ABC transporter ATP-binding protein	SCE1572_1100	yes	sce_3521	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	O-acetylhomoserine sulfhydrylase (EC 2.5.1.49)	SCE1572_7144	yes	sce_5878	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	O-succinylhomoserine sulfhydrylase (EC 2.5.1.48)	SCE1572_7144	yes	sce_5878	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	S-adenosylmethionine synthetase (EC 2.5.1.6)	SCE1572_9402	yes	sce_8184	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Serine acetyltransferase (EC 2.3.1.30)	SCE1572_4722	yes	sce_3948	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Salvage	1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase (EC 1.13.11.54	SCE1572_2153	yes	sce_1721	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Salvage	2,3-diketo-5-methylthiopentyl-1-phosphate enolase-phosphatase (EC 3.	SCE1572_2154	yes	sce_1722	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Salvage	2-hydroxy-3-keto-5-methylthiopentenyl-1-phosphate phosphatase relate	SCE1572_3842	yes	sce_3165	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Salvage	5'-methylthioadenosine phosphorylase (EC 2.4.2.28)	SCE1572_5013	yes	sce_4215	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Salvage	Methylthioribose-1-phosphate isomerase (EC 5.3.1.23)	SCE1572_2204	yes	sce_1751	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Salvage	Methylthioribulose-1-phosphate dehydratase (EC 4.2.1.109)	SCE1572_2152	yes	sce_1720	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	S-methylmethionine	Homocysteine S-methyltransferase (EC 2.1.1.10)	SCE1572_758	yes	sce_559	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Threonine and Homoserine Biosynthesis	Aspartate aminotransferase (EC 2.6.1.1)	SCE1572_689	yes	sce_1273	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Threonine and Homoserine Biosynthesis	Aspartate-semialdehyde dehydrogenase (EC 1.2.1.11)	SCE1572_7286	yes	sce_5989	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Threonine and Homoserine Biosynthesis	Aspartokinase (EC 2.7.2.4)	SCE1572_3345	yes	sce_2841	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Threonine and Homoserine Biosynthesis	Homoserine dehydrogenase (EC 1.1.1.3)	SCE1572_6399	yes	sce_5418	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Threonine and Homoserine Biosynthesis	Homoserine kinase (EC 2.7.1.39)	SCE1572_633	yes	sce_441	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Threonine and Homoserine Biosynthesis	Threonine synthase (EC 4.2.3.1)	SCE1572_11433	yes	sce_10289	yes

A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Threonine degradation	L-threonine 3-dehydrogenase (EC 1.1.1.103)	SCE1572_9364	yes	sce_8144	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Threonine degradation	Low-specificity L-threonine aldolase (EC 4.1.2.5)	SCE1572_2736	yes	sce_2275	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Threonine degradation	Threonine dehydratase, catabolic (EC 4.3.1.19)	SCE1572_5116	yes	sce_4304	yes
A and B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Threonine degradation	Threonine dehydrogenase and related Zn-dependent dehydrogenases	SCE1572_42	yes	sce_534	yes
A	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Sulfate permease	SCE1572_6929	yes		no
A	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase	SCE1572_3532	yes		no
A	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Methionine ABC transporter permease protein	SCE1572_1101	yes		no
A	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Methionine ABC transporter substrate-binding protein	SCE1572_1102	yes		no
B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Cysteine Biosynthesis	Cys regulon transcriptional activator CysB		no	sce_2533	yes
B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Lysine degradation	Lysine decarboxylase (EC 4.1.1.18)		no	sce_93	yes
B	Amino Acids and Derivatives	Lysine, threonine, methionine, and cysteine	Methionine Biosynthesis	Predicted regulator of methionine metabolism, ArsR family		no	sce_3330	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	A Hypothetical Protein Related to Proline Metabolism	Hypothetical protein YggS, proline synthase co-transcribed bacterial ho	SCE1572_10504	yes	sce_9152	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	A Hypothetical Protein Related to Proline Metabolism	Pyrroline-5-carboxylate reductase (EC 1.5.1.2)	SCE1572_7743	yes	sce_6567	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline, 4-hydroxyproline uptake and utilization	D-amino-acid oxidase (EC 1.4.3.3)	SCE1572_7258	yes	sce_5972	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline, 4-hydroxyproline uptake and utilization	Delta-1-pyrroline-5-carboxylate dehydrogenase (EC 1.5.1.12)	SCE1572_6031	yes	sce_4984	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline, 4-hydroxyproline uptake and utilization	Ketoglutarate semialdehyde dehydrogenase (EC 1.2.1.26)	SCE1572_10398	yes	sce_9215	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline, 4-hydroxyproline uptake and utilization	Proline iminopeptidase (EC 3.4.11.5)	SCE1572_7176	yes	sce_5905	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline Synthesis	Gamma-glutamyl phosphate reductase (EC 1.2.1.41)	SCE1572_4908	yes	sce_4118	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline Synthesis	Glutamate 5-kinase (EC 2.7.2.11)	SCE1572_10703	yes	sce_9312	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline Synthesis	NADP-specific glutamate dehydrogenase (EC 1.4.1.4)	SCE1572_1504	yes	sce_6937	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline Synthesis	Pyrroline-5-carboxylate reductase (EC 1.5.1.2)	SCE1572_7743	yes	sce_6567	yes
A and B	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline Synthesis	RNA-binding C-terminal domain PUA	SCE1572_10703	yes	sce_9312	yes
A	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline, 4-hydroxyproline uptake and utilization	D-proline reductase, 23 kDa subunit (EC 1.21.4.1)	SCE1572_8108	yes		no
A	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline, 4-hydroxyproline uptake and utilization	D-proline reductase, 26 kDa subunit (EC 1.21.4.1)	SCE1572_8107	yes		no
A	Amino Acids and Derivatives	Proline and 4-hydroxyproline	Proline, 4-hydroxyproline uptake and utilization	D-proline reductase, 45 kDa subunit (EC 1.21.4.1)	SCE1572_8108	yes		no
A and B	Amino Acids and Derivatives	no subcategory	Creatine and Creatinine Degradation	Creatinine amidohydrolase (EC 3.5.2.10)	SCE1572_2672	yes	sce_2221	yes
A and B	Amino Acids and Derivatives	no subcategory	Creatine and Creatinine Degradation	N-methylhydantoinase (ATP-hydrolyzing) (EC 3.5.2.14)	SCE1572_3451	yes	sce_2943	yes
A and B	Amino Acids and Derivatives	no subcategory	Creatine and Creatinine Degradation	N-methylhydantoinase A (EC 3.5.2.14)	SCE1572_3453	yes	sce_2945	yes
A and B	Amino Acids and Derivatives	no subcategory	Creatine and Creatinine Degradation	N-methylhydantoinase B (EC 3.5.2.14)	SCE1572_3452	yes	sce_2944	yes
B	Amino Acids and Derivatives	no subcategory	Creatine and Creatinine Degradation	Cytosine deaminase (EC 3.5.4.1)		no	sce_4620	yes
A	Carbohydrates	Aminosugars	Chitin and N-acetylglucosamine utilization	Glucosamine-6-phosphate deaminase [isomerizing], alternative (EC 3.5.	SCE1572_3562	yes		no
A	Carbohydrates	Aminosugars	Chitin and N-acetylglucosamine utilization	N-acetylglucosamine related transporter, NagX	SCE1572_7992	yes		no
A	Carbohydrates	Aminosugars	Chitin and N-acetylglucosamine utilization	N-acetylglucosamine-6-phosphate deacetylase (EC 3.5.1.25)	SCE1572_3561	yes		no
A	Carbohydrates	Aminosugars	Chitin and N-acetylglucosamine utilization	PTS system, N-acetylglucosamine-specific IIB component (EC 2.7.1.69	SCE1572_3560	yes		no
A	Carbohydrates	Aminosugars	Chitin and N-acetylglucosamine utilization	PTS system, N-acetylglucosamine-specific IIC component (EC 2.7.1.69	SCE1572_3560	yes		no
A and B	Carbohydrates	Central carbohydrate metabolism	Dehydrogenase complexes	2-oxoglutarate dehydrogenase E1 component (EC 1.2.4.2)	SCE1572_2352	yes	sce_1318	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dehydrogenase complexes	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha s	SCE1572_2201	yes	sce_1748	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dehydrogenase complexes	Branched-chain alpha-keto acid dehydrogenase, E1 component, beta su	SCE1572_2200	yes	sce_1747	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dehydrogenase complexes	Cytosol aminopeptidase PepA (EC 3.4.11.1)	SCE1572_3407	yes	sce_2894	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dehydrogenase complexes	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogen	SCE1572_2006	yes	sce_1142	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dehydrogenase complexes	Dihydrolipoamide acyltransferase component of branched-chain alpha-k	SCE1572_2199	yes	sce_1746	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dehydrogenase complexes	Dihydrolipoamide succinyltransferase component (E2) of 2-oxoglutarat	SCE1572_828	yes	sce_1318	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dehydrogenase complexes	Pyruvate dehydrogenase E1 component alpha subunit (EC 1.2.4.1)	SCE1572_5066	yes	sce_4255	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dehydrogenase complexes	Pyruvate dehydrogenase E1 component beta subunit (EC 1.2.4.1)	SCE1572_5067	yes	sce_4256	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dihydroxyacetone kinases	DHA-specific EI component	SCE1572_3297	yes	sce_2789	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dihydroxyacetone kinases	DHA-specific IIA component	SCE1572_3297	yes	sce_2789	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dihydroxyacetone kinases	DHA-specific phosphocarrier protein HPr	SCE1572_3297	yes	sce_2789	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dihydroxyacetone kinases	Phosphoenolpyruvate-dihydroxyacetone phosphotransferase (EC 2.7.1.	SCE1572_3298	yes	sce_2790	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dihydroxyacetone kinases	Phosphoenolpyruvate-dihydroxyacetone phosphotransferase (EC 2.7.1.	SCE1572_3299	yes	sce_2791	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Dihydroxyacetone kinases	Phosphoenolpyruvate-dihydroxyacetone phosphotransferase (EC 2.7.1.	SCE1572_3297	yes	sce_2789	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4	SCE1572_1634	yes	sce_1168	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	2-dehydro-3-deoxygluconate kinase (EC 2.7.1.45)	SCE1572_4552	yes	sce_1380	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	2-dehydro-3-deoxyphosphogluconate aldolase (EC 4.1.2.14)	SCE1572_4553	yes	sce_1379	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	6-phosphogluconolactonase (EC 3.1.1.31), eukaryotic type	SCE1572_5831	yes	sce_4872	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	D-glycerate 2-kinase (EC 2.7.1.-)	SCE1572_4036	yes	sce_3364	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	Enolase (EC 4.2.1.11)	SCE1572_9808	yes	sce_8614	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	Glucokinase (EC 2.7.1.2)	SCE1572_5828	yes	sce_4870	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	Gluconokinase (EC 2.7.1.12)	SCE1572_1893	yes	sce_1407	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	Gluconolactonase (EC 3.1.1.17)	SCE1572_7960	yes	sce_2029	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	Glucose 1-dehydrogenase (EC 1.1.1.47)	SCE1572_1769	yes	sce_1694	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	Glucose-6-phosphate 1-dehydrogenase (EC 1.1.1.49)	SCE1572_5833	yes	sce_4874	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	Hexokinase (EC 2.7.1.1)	SCE1572_7950	yes	sce_6746	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1	SCE1572_6421	yes	sce_8225	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	Phosphoglycerate kinase (EC 2.7.2.3)	SCE1572_6890	yes	sce_8224	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	Polyphosphate glucokinase (EC 2.7.1.63)	SCE1572_1006	yes	sce_759	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	Pyruvate kinase (EC 2.7.1.40)	SCE1572_6128	yes	sce_5073	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolate, glyoxylate interconversions	Glycolate dehydrogenase (EC 1.1.99.14), subunit GlcD	SCE1572_6827	yes	sce_5688	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolate, glyoxylate interconversions	Glycolate oxidase (EC 1.1.3.15)	SCE1572_9787	yes	sce_8585	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolate, glyoxylate interconversions	Phosphoglycolate phosphatase (EC 3.1.3.18)	SCE1572_11194	yes	sce_8372	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4	SCE1572_1634	yes	sce_1168	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	6-phosphofructokinase (EC 2.7.1.11)	SCE1572_4596	yes	sce_3833	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Enolase (EC 4.2.1.11)	SCE1572_9808	yes	sce_8614	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Fructose-1,6-bisphosphatase, Bacillus type (EC 3.1.3.11)	SCE1572_10951	yes	sce_9561	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Fructose-1,6-bisphosphatase, type I (EC 3.1.3.11)	SCE1572_3405	yes	sce_2892	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Fructose-bisphosphate aldolase class I (EC 4.1.2.13)	SCE1572_3406	yes	sce_2893	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Fructose-bisphosphate aldolase class II (EC 4.1.2.13)	SCE1572_2567	yes	sce_2139	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Glucokinase (EC 2.7.1.2)	SCE1572_5828	yes	sce_4870	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Glucose-6-phosphate isomerase (EC 5.3.1.9)	SCE1572_7517	yes	sce_6344	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Hexokinase (EC 2.7.1.1)	SCE1572_7950	yes	sce_6746	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1	SCE1572_6421	yes	sce_8225	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Phosphoenolpyruvate synthase (EC 2.7.9.2)	SCE1572_1055	yes	sce_4687	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Phosphoglycerate kinase (EC 2.7.2.3)	SCE1572_6890	yes	sce_8224	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Polyphosphate glucokinase (EC 2.7.1.63)	SCE1572_1006	yes	sce_759	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase, alpha subu	SCE1572_2888	yes	sce_2511	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Pyruvate kinase (EC 2.7.1.40)	SCE1572_6128	yes	sce_5073	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Pyruvate,phosphate dikinase (EC 2.7.9.1)	SCE1572_9634	yes	sce_8446	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glycolysis and Gluconeogenesis	Triosephosphate isomerase (EC 5.3.1.1)	SCE1572_9434	yes	sce_8223	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glyoxylate bypass	Aconitate hydratase (EC 4.2.1.3)	SCE1572_5235	yes	sce_4390	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glyoxylate bypass	Citrate synthase (si) (EC 2.3.3.1)	SCE1572_2382	yes	sce_1933	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glyoxylate bypass	Isocitrate lyase (EC 4.1.3.1)	SCE1572_11040	yes	sce_9752	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glyoxylate bypass	Malate dehydrogenase (EC 1.1.1.37)	SCE1572_1660	yes	sce_1175	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Glyoxylate bypass	Malate synthase (EC 2.3.3.9)	SCE1572_11039	yes	sce_9751	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Methylglyoxal Metabolism	Aldehyde dehydrogenase (EC 1.2.1.3)	SCE1572_4022	yes	sce_2406	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Methylglyoxal Metabolism	Hydroxyacylglutathione hydrolase (EC 3.1.2.6)	SCE1572_10143	yes	sce_8946	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Methylglyoxal Metabolism	Lactoylglutathione lyase (EC 4.4.1.5)	SCE1572_4796	yes	sce_4011	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pentose phosphate pathway	6-phosphogluconate dehydrogenase, decarboxylating (EC 1.1.1.44)	SCE1572_4750	yes	sce_3971	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pentose phosphate pathway	6-phosphogluconolactonase (EC 3.1.1.31), eukaryotic type	SCE1572_5831	yes	sce_4872	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pentose phosphate pathway	Glucose-6-phosphate 1-dehydrogenase (EC 1.1.1.49)	SCE1572_5833	yes	sce_4874	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pentose phosphate pathway	Ribose 5-phosphate isomerase A (EC 5.3.1.6)	SCE1572_2404	yes	sce_1958	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pentose phosphate pathway	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1)	SCE1572_8154	yes	sce_7319	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pentose phosphate pathway	Ribulose-phosphate 3-epimerase (EC 5.1.3.1)	SCE1572_10509	yes	sce_9159	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pentose phosphate pathway	Transaldolase (EC 2.2.1.2)	SCE1572_29	yes	sce_31	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pentose phosphate pathway	Transketolase (EC 2.2.1.1)	SCE1572_5327	yes	sce_4463	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate:ferredoxin oxidoreductase	Pyruvate-flavodoxin oxidoreductase (EC 1.2.7.-)	SCE1572_6058	yes	sce_5009	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate Alanine Serine Interconversions	Alanine dehydrogenase (EC 1.4.1.1)	SCE1572_10473	yes	sce_9118	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate Alanine Serine Interconversions	Alanine racemase (EC 5.1.1.1)	SCE1572_9334	yes	sce_8113	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate Alanine Serine Interconversions	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	SCE1572_354	yes	sce_195	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate Alanine Serine Interconversions	L-serine dehydratase (EC 4.3.1.17)	SCE1572_2497	yes	sce_2075	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate Alanine Serine Interconversions	Omega-amino acid--pyruvate aminotransferase (EC 2.6.1.18)	SCE1572_8423	yes	sce_7183	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate Alanine Serine Interconversions	Valine--pyruvate aminotransferase (EC 2.6.1.66)	SCE1572_1439	yes	sce_6322	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism I: anaplerotic reactions, PEP	Malate permease	SCE1572_5325	yes	sce_4462	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism I: anaplerotic reactions, PEP	Phosphoenolpyruvate carboxykinase [GTP] (EC 4.1.1.32)	SCE1572_4050	yes	sce_3376	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism I: anaplerotic reactions, PEP	Phosphoenolpyruvate carboxylase (EC 4.1.1.31)	SCE1572_4598	yes	sce_3835	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism I: anaplerotic reactions, PEP	Phosphoenolpyruvate synthase (EC 2.7.9.2)	SCE1572_1055	yes	sce_4687	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism I: anaplerotic reactions, PEP	Pyruvate kinase (EC 2.7.1.40)	SCE1572_6128	yes	sce_5073	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism I: anaplerotic reactions, PEP	Pyruvate,phosphate dikinase (EC 2.7.9.1)	SCE1572_9634	yes	sce_8446	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism II: acetyl-CoA, acetogenesis from pyruvat	Acetyl-CoA synthetase (ADP-forming) alpha and beta chains, putative	SCE1572_5434	yes	sce_4578	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism II: acetyl-CoA, acetogenesis from pyruvat	Acetyl-coenzyme A synthetase (EC 6.2.1.1)	SCE1572_8163	yes	sce_8866	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism II: acetyl-CoA, acetogenesis from pyruvat	Acylphosphate phosphohydrolase (EC 3.6.1.7), putative	SCE1572_10056	yes	sce_8873	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism II: acetyl-CoA, acetogenesis from pyruvat	Aldehyde dehydrogenase (EC 1.2.1.3)	SCE1572_4022	yes	sce_2406	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism II: acetyl-CoA, acetogenesis from pyruvat	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogen	SCE1572_2006	yes	sce_1142	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism II: acetyl-CoA, acetogenesis from pyruvat	Dihydrolipoamide dehydrogenase of pyruvate dehydrogenase complex (	SCE1572_10146	yes	sce_8949	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism II: acetyl-CoA, acetogenesis from pyruvat	NAD-dependent protein deacetylase of SIR2 family	SCE1572_901	yes	sce_672	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism II: acetyl-CoA, acetogenesis from pyruvat	Pyruvate dehydrogenase E1 component alpha subunit (EC 1.2.4.1)	SCE1572_5066	yes	sce_4255	yes
A and B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism II: acetyl-CoA, acetogenesis from pyruvat	Pyruvate dehydrogenase E1 component beta subunit (EC 1.2.4.1)	SCE1572_5067	yes	sce_4256	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	2-oxoglutarate dehydrogenase E1 component (EC 1.2.4.2)	SCE1572_2352	yes	sce_1318	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Aconitate hydratase (EC 4.2.1.3)	SCE1572_5235	yes	sce_4390	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Citrate synthase (si) (EC 2.3.3.1)	SCE1572_2382	yes	sce_1933	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Dihydrolipoamide dehydrogenase of pyruvate dehydrogenase complex (	SCE1572_10146	yes	sce_8949	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Dihydrolipoamide succinyltransferase component (E2) of 2-oxoglutarat	SCE1572_828	yes	sce_1318	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Fumarate hydratase class I, aerobic (EC 4.2.1.2)	SCE1572_593	yes	sce_402	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Fumarate hydratase class II (EC 4.2.1.2)	SCE1572_7239	yes	sce_10177	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Isocitrate dehydrogenase [NADP] (EC 1.1.1.42)	SCE1572_1627	yes	sce_7633	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Isocitrate dehydrogenase [NAD] (EC 1.1.1.41)	SCE1572_7602	yes	sce_6463	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Malate dehydrogenase (EC 1.1.1.37)	SCE1572_1660	yes	sce_1175	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Succinate dehydrogenase flavoprotein subunit (EC 1.3.99.1)	SCE1572_8615	yes	sce_3094	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Succinate dehydrogenase iron-sulfur protein (EC 1.3.99.1)	SCE1572_8616	yes	sce_7336	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Succinyl-CoA ligase [ADP-forming] alpha chain (EC 6.2.1.5)	SCE1572_11373	yes	sce_10210	yes
A and B	Carbohydrates	Central carbohydrate metabolism	TCA Cycle	Succinyl-CoA ligase [ADP-forming] beta chain (EC 6.2.1.5)	SCE1572_3507	yes	sce_2990	yes
A	Carbohydrates	Central carbohydrate metabolism	Entner-Doudoroff Pathway	6-phosphogluconolactonase (EC 3.1.1.31)	SCE1572_8633	yes		no
B	Carbohydrates	Central carbohydrate metabolism	Glycolate, glyoxylate interconversions	Glycolate dehydrogenase (EC 1.1.99.14), iron-sulfur subunit GlcF		no	sce_1682	yes
B	Carbohydrates	Central carbohydrate metabolism	Pyruvate metabolism I: anaplerotic reactions, PEP	NAD-dependent malic enzyme (EC 1.1.1.38)		no	sce_6274	yes
A and B	Carbohydrates	Di- and oligosaccharides	Lactose and Galactose Uptake and Utilization	Beta-galactosidase (EC 3.2.1.23)	SCE1572_6701	yes	sce_3424	yes
A and B	Carbohydrates	Di- and oligosaccharides	Lactose and Galactose Uptake and Utilization	Galactokinase (EC 2.7.1.6)	SCE1572_6700	yes	sce_2475	yes
A and B	Carbohydrates	Di- and oligosaccharides	Lactose and Galactose Uptake and Utilization	UDP-glucose 4-epimerase (EC 5.1.3.2)	SCE1572_1369	yes	sce_995	yes
A and B	Carbohydrates	Di- and oligosaccharides	Lactose utilization	Beta-galactosidase (EC 3.2.1.23)	SCE1572_6701	yes	sce_3424	yes
A and B	Carbohydrates	Di- and oligosaccharides	Lactose utilization	Galactoside O-acetyltransferase (EC 2.3.1.18)	SCE1572_8804	yes	sce_1535	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	4-alpha-glucanotransferase (amylomaltase) (EC 2.4.1.25)	SCE1572_586	yes	sce_396	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Alpha-glucosidase (EC 3.2.1.20)	SCE1572_440	yes	sce_3862	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Beta-phosphoglucomutase (EC 5.4.2.6)	SCE1572_11165	yes	sce_9891	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Glucoamylase (EC 3.2.1.3)	SCE1572_5385	yes	sce_1738	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Glycogen phosphorylase (EC 2.4.1.1)	SCE1572_5906	yes	sce_4909	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Malto-oligosyltrehalose synthase (EC 5.4.99.15)	SCE1572_3181	yes	sce_2671	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Maltodextrin glucosidase (EC 3.2.1.20)	SCE1572_762	yes	sce_92	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Maltose O-acetyltransferase (EC 2.3.1.79)	SCE1572_8623	yes	sce_7345	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Maltose phosphorylase (EC 2.4.1.8)	SCE1572_10442	yes	sce_9083	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Maltose/maltodextrin ABC transporter, permease protein MalF	SCE1572_6788	yes	sce_5647	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Maltose/maltodextrin ABC transporter, permease protein MalG	SCE1572_1171	yes	sce_5646	yes
A and B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Maltose/maltodextrin ABC transporter, substrate binding periplasmic pr	SCE1572_6789	yes	sce_5648	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Biosynthesis	1,4-alpha-glucan (glycogen) branching enzyme, GH-13-type (EC 2.4.1.	SCE1572_6074	yes	sce_5020	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Biosynthesis	Alpha,alpha-trehalose-phosphate synthase [UDP-forming] (EC 2.4.1.15	SCE1572_746	yes	sce_549	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Biosynthesis	Glucoamylase (EC 3.2.1.3)	SCE1572_5385	yes	sce_1738	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Biosynthesis	Glycogen debranching enzyme (EC 3.2.1.-)	SCE1572_1926	yes	sce_1444	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Biosynthesis	Malto-oligosyltrehalose synthase (EC 5.4.99.15)	SCE1572_3181	yes	sce_2671	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Biosynthesis	Malto-oligosyltrehalose trehalohydrolase (EC 3.2.1.141)	SCE1572_3182	yes	sce_2672	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Biosynthesis	Trehalose phosphorylase (EC 2.4.1.64)	SCE1572_10442	yes	sce_9083	yes

A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Biosynthesis	Trehalose synthase (EC 5.4.99.16)	SCE1572_601	yes	sce_407	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Biosynthesis	Trehalose-6-phosphate phosphatase (EC 3.1.3.12)	SCE1572_746	yes	sce_549	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Uptake and Utilization	Beta-phosphoglucomutase (EC 5.4.2.6)	SCE1572_11165	yes	sce_9891	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Uptake and Utilization	Glucose/mannose:H symporter GlcP	SCE1572_10391	yes	sce_9046	yes
A and B	Carbohydrates	Di- and oligosaccharides	Trehalose Uptake and Utilization	Trehalose phosphorylase (EC 2.4.1.64)	SCE1572_10442	yes	sce_9083	yes
A	Carbohydrates	Di- and oligosaccharides	Lactose and Galactose Uptake and Utilization	Galactose/methyl galactoside ABC transport system, ATP-binding prote	SCE1572_212	yes		no
A	Carbohydrates	Di- and oligosaccharides	Lactose and Galactose Uptake and Utilization	Galactose/methyl galactoside ABC transport system, permease protein I	SCE1572_211	yes		no
A	Carbohydrates	Di- and oligosaccharides	Trehalose Uptake and Utilization	PTS system, glucose-specific IIA component (EC 2.7.1.69)	SCE1572_3559	yes		no
B	Carbohydrates	Di- and oligosaccharides	Lactose and Galactose Uptake and Utilization	Aldose 1-epimerase (EC 5.1.3.3)		no	sce_9185	yes
B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Maltose/maltodextrin transport ATP-binding protein MalK (EC 3.6.3.19)		no	sce_3429	yes
B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Multiple sugar ABC transporter, ATP-binding protein		no	sce_3429	yes
B	Carbohydrates	Di- and oligosaccharides	Maltose and Maltodextrin Utilization	Periplasmic alpha-amylase (EC 3.2.1.1)		no	sce_7664	yes
A and B	Carbohydrates	Fermentation	Acetoin, butanediol metabolism	Acetolactate synthase large subunit (EC 2.2.1.6)	SCE1572_311	yes	sce_4182	yes
A and B	Carbohydrates	Fermentation	Acetoin, butanediol metabolism	Acetolactate synthase small subunit (EC 2.2.1.6)	SCE1572_4974	yes	sce_4183	yes
A and B	Carbohydrates	Fermentation	Acetyl-CoA fermentation to Butyrate	3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)	SCE1572_60	yes	sce_50	yes
A and B	Carbohydrates	Fermentation	Acetyl-CoA fermentation to Butyrate	3-hydroxybutyryl-CoA dehydratase (EC 4.2.1.55)	SCE1572_463	yes	sce_277	yes
A and B	Carbohydrates	Fermentation	Acetyl-CoA fermentation to Butyrate	3-hydroxybutyryl-CoA dehydrogenase (EC 1.1.1.157)	SCE1572_466	yes	sce_278	yes
A and B	Carbohydrates	Fermentation	Acetyl-CoA fermentation to Butyrate	3-hydroxybutyryl-CoA epimerase (EC 5.1.2.3)	SCE1572_60	yes	sce_50	yes
A and B	Carbohydrates	Fermentation	Acetyl-CoA fermentation to Butyrate	Acetyl-CoA acetyltransferase (EC 2.3.1.9)	SCE1572_61	yes	sce_51	yes
A and B	Carbohydrates	Fermentation	Acetyl-CoA fermentation to Butyrate	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	SCE1572_1711	yes	sce_1225	yes
A and B	Carbohydrates	Fermentation	Acetyl-CoA fermentation to Butyrate	Electron transfer flavoprotein, alpha subunit	SCE1572_934	yes	sce_702	yes
A and B	Carbohydrates	Fermentation	Acetyl-CoA fermentation to Butyrate	Electron transfer flavoprotein, beta subunit	SCE1572_935	yes	sce_703	yes
A and B	Carbohydrates	Fermentation	Acetyl-CoA fermentation to Butyrate	Enoyl-CoA hydratase (EC 4.2.1.17)	SCE1572_60	yes	sce_50	yes
A and B	Carbohydrates	Fermentation	Butanol Biosynthesis	3-hydroxybutyryl-CoA dehydrogenase (EC 1.1.1.157)	SCE1572_466	yes	sce_278	yes
A and B	Carbohydrates	Fermentation	Butanol Biosynthesis	Acetyl-CoA acetyltransferase (EC 2.3.1.9)	SCE1572_61	yes	sce_51	yes
A and B	Carbohydrates	Fermentation	Butanol Biosynthesis	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	SCE1572_1711	yes	sce_1225	yes
A and B	Carbohydrates	Fermentation	Butanol Biosynthesis	Enoyl-CoA hydratase (EC 4.2.1.17)	SCE1572_60	yes	sce_50	yes
A and B	Carbohydrates	Fermentation	Fermentations: Lactate	L-lactate dehydrogenase (EC 1.1.1.27)	SCE1572_7135	yes	sce_5876	yes
A	Carbohydrates	Fermentation	Acetoin, butanediol metabolism	Acetoin dehydrogenase E1 component alpha-subunit (EC 1.2.4.-)	SCE1572_8155	yes		no
A	Carbohydrates	Fermentation	Acetoin, butanediol metabolism	Acetoin dehydrogenase E1 component beta-subunit (EC 1.2.4.-)	SCE1572_8160	yes		no
A	Carbohydrates	Fermentation	Acetoin, butanediol metabolism	Dihydrolipoamide acetyltransferase component (E2) of acetoin dehydro	SCE1572_8161	yes		no
B	Carbohydrates	Fermentation	Acetoin, butanediol metabolism	2,3-butanediol dehydrogenase, R-alcohol forming, (R)- and (S)-acetoin-specific (EC 1.1.1.4)		no	sce_2886	yes
A and B	Carbohydrates	Monosaccharides	D-gluconate and ketogluconates metabolism	2-dehydro-3-deoxygluconate kinase (EC 2.7.1.45)	SCE1572_4552	yes	sce_1380	yes
A and B	Carbohydrates	Monosaccharides	D-gluconate and ketogluconates metabolism	5-keto-D-gluconate 5-reductase (EC 1.1.1.69)	SCE1572_6965	yes	sce_5779	yes
A and B	Carbohydrates	Monosaccharides	D-gluconate and ketogluconates metabolism	6-phosphogluconate dehydrogenase, decarboxylating (EC 1.1.1.44)	SCE1572_4750	yes	sce_3971	yes
A and B	Carbohydrates	Monosaccharides	D-gluconate and ketogluconates metabolism	Gluconokinase (EC 2.7.1.12)	SCE1572_1893	yes	sce_1407	yes
A and B	Carbohydrates	Monosaccharides	D-gluconate and ketogluconates metabolism	Glucose 1-dehydrogenase (EC 1.1.1.47)	SCE1572_1769	yes	sce_1694	yes
A and B	Carbohydrates	Monosaccharides	D-ribose utilization	Ribokinase (EC 2.7.1.15)	SCE1572_898	yes	sce_670	yes
A and B	Carbohydrates	Monosaccharides	D-ribose utilization	Ribose 5-phosphate isomerase A (EC 5.3.1.6)	SCE1572_2404	yes	sce_1958	yes
A and B	Carbohydrates	Monosaccharides	D-ribose utilization	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1	SCE1572_5387	yes	sce_2471	yes
A and B	Carbohydrates	Monosaccharides	D-ribose utilization	Ribose ABC transport system, periplasmic ribose-binding protein RbsB	SCE1572_11133	yes	sce_3723	yes
A and B	Carbohydrates	Monosaccharides	D-ribose utilization	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	SCE1572_2642	yes	sce_2472	yes
A and B	Carbohydrates	Monosaccharides	Deoxyribose and Deoxynucleoside Catabolism	Deoxyribose-phosphate aldolase (EC 4.1.2.4)	SCE1572_6736	yes	sce_5608	yes
A and B	Carbohydrates	Monosaccharides	Deoxyribose and Deoxynucleoside Catabolism	Purine nucleoside phosphorylase (EC 2.4.2.1)	SCE1572_7736	yes	sce_6561	yes
A and B	Carbohydrates	Monosaccharides	Deoxyribose and Deoxynucleoside Catabolism	Putative deoxyribose-specific ABC transporter, ATP-binding protein	SCE1572_9866	yes	sce_8677	yes
A and B	Carbohydrates	Monosaccharides	Deoxyribose and Deoxynucleoside Catabolism	Pyrimidine-nucleoside phosphorylase (EC 2.4.2.2)	SCE1572_3232	yes	sce_2724	yes
A and B	Carbohydrates	Monosaccharides	Deoxyribose and Deoxynucleoside Catabolism	Ribokinase (EC 2.7.1.15)	SCE1572_898	yes	sce_670	yes
A and B	Carbohydrates	Monosaccharides	Fructose utilization	PTS system, fructose-specific IIA component (EC 2.7.1.69)	SCE1572_3318	yes	sce_2813	yes
A and B	Carbohydrates	Monosaccharides	Fructose utilization	PTS system, fructose-specific IIB component (EC 2.7.1.69)	SCE1572_3318	yes	sce_2813	yes
A and B	Carbohydrates	Monosaccharides	Fructose utilization	PTS system, fructose-specific IIC component (EC 2.7.1.69)	SCE1572_3318	yes	sce_2813	yes
A and B	Carbohydrates	Monosaccharides	Fructose utilization	Phosphoenolpyruvate-protein phosphotransferase of PTS system (EC 2.	SCE1572_3559	yes	sce_6452	yes
A and B	Carbohydrates	Monosaccharides	Fructose utilization	Transaldolase (EC 2.2.1.2)	SCE1572_29	yes	sce_31	yes
A and B	Carbohydrates	Monosaccharides	L-Arabinose utilization	Alpha-L-arabinofuranosidase II precursor (EC 3.2.1.55)	SCE1572_3113	yes	sce_1386	yes
A and B	Carbohydrates	Monosaccharides	L-Arabinose utilization	Arabinan endo-1,5-alpha-L-arabinosidase (EC 3.2.1.99)	SCE1572_2128	yes	sce_1647	yes
A and B	Carbohydrates	Monosaccharides	L-Arabinose utilization	Hypothetical glycoside hydrolase, family 43, similar to arabinosidase	SCE1572_4336	yes	sce_9941	yes
A and B	Carbohydrates	Monosaccharides	L-Arabinose utilization	L-arabinose isomerase (EC 5.3.1.4)	SCE1572_2638	yes	sce_3711	yes
A and B	Carbohydrates	Monosaccharides	L-Arabinose utilization	L-arabinose transport ATP-binding protein AraG (TC 3.A.1.2.2)	SCE1572_2641	yes	sce_3708	yes
A and B	Carbohydrates	Monosaccharides	L-Arabinose utilization	L-arabinose-specific 1-epimerase (mutarotase)	SCE1572_1772	yes	sce_1086	yes
A and B	Carbohydrates	Monosaccharides	L-Arabinose utilization	L-ribulose-5-phosphate 4-epimerase (EC 5.1.3.4)	SCE1572_2639	yes	sce_3710	yes
A and B	Carbohydrates	Monosaccharides	L-Arabinose utilization	Ribulokinase (EC 2.7.1.16)	SCE1572_2637	yes	sce_3712	yes
A and B	Carbohydrates	Monosaccharides	Mannose Metabolism	Endoglucanase (EC 3.2.1.4)	SCE1572_8738	yes	sce_1536	yes
A and B	Carbohydrates	Monosaccharides	Mannose Metabolism	Hexokinase (EC 2.7.1.1)	SCE1572_7950	yes	sce_6746	yes
A and B	Carbohydrates	Monosaccharides	Mannose Metabolism	Mannose-1-phosphate guanylyltransferase (EC 2.7.7.13)	SCE1572_4958	yes	sce_4167	yes
A and B	Carbohydrates	Monosaccharides	Mannose Metabolism	Mannose-1-phosphate guanylyltransferase (GDP) (EC 2.7.7.22)	SCE1572_11327	yes	sce_10107	yes
A and B	Carbohydrates	Monosaccharides	Mannose Metabolism	Mannose-6-phosphate isomerase (EC 5.3.1.8)	SCE1572_6242	yes	sce_5254	yes
A and B	Carbohydrates	Monosaccharides	Mannose Metabolism	Phosphomannomutase (EC 5.4.2.8)	SCE1572_6389	yes	sce_9011	yes
A and B	Carbohydrates	Monosaccharides	Xylose utilization	Beta-xylosidase (EC 3.2.1.37)	SCE1572_2022	yes	sce_137	yes
A and B	Carbohydrates	Monosaccharides	Xylose utilization	D-xylose transport ATP-binding protein XylG	SCE1572_7367	yes	sce_3480	yes
A and B	Carbohydrates	Monosaccharides	Xylose utilization	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	SCE1572_346	yes	sce_841	yes
A and B	Carbohydrates	Monosaccharides	Xylose utilization	Xylanase	SCE1572_8890	yes	sce_1082	yes
A and B	Carbohydrates	Monosaccharides	Xylose utilization	Xylose ABC transporter, periplasmic xylose-binding protein XylF	SCE1572_5388	yes	sce_4512	yes
A and B	Carbohydrates	Monosaccharides	Xylose utilization	Xylose ABC transporter, substrate-binding component	SCE1572_1271	yes	sce_1556	yes
A and B	Carbohydrates	Monosaccharides	Xylose utilization	Xylose isomerase (EC 5.3.1.5)	SCE1572_271	yes	sce_6076	yes
A and B	Carbohydrates	Monosaccharides	Xylose utilization	Xylose-responsive transcription regulator, ROK family	SCE1572_9783	yes	sce_5806	yes
A and B	Carbohydrates	Monosaccharides	Xylose utilization	Xylulose kinase (EC 2.7.1.17)	SCE1572_11535	yes	sce_6019	yes
A	Carbohydrates	Monosaccharides	Mannose Metabolism	Alpha-1,2-mannosidase	SCE1572_2166	yes		no
B	Carbohydrates	Monosaccharides	D-ribose utilization	Ribose operon repressor		no	sce_9376	yes
B	Carbohydrates	Monosaccharides	Fructose utilization	Fructokinase (EC 2.7.1.4)		no	sce_9859	yes
B	Carbohydrates	Monosaccharides	Fructose utilization	Phosphotransferase system, phosphocarrier protein HPr		no	sce_6453	yes
A and B	Carbohydrates	One-carbon Metabolism	One-carbon metabolism by tetrahydropterines	5,10-methylenetetrahydrofolate reductase (EC 1.5.1.20)	SCE1572_7802	yes	sce_6607	yes
A and B	Carbohydrates	One-carbon Metabolism	One-carbon metabolism by tetrahydropterines	5-formyltetrahydrofolate cyclo-ligase (EC 6.3.3.2)	SCE1572_9050	yes	sce_7810	yes
A and B	Carbohydrates	One-carbon Metabolism	One-carbon metabolism by tetrahydropterines	Formyltetrahydrofolate deformylase (EC 3.5.1.10)	SCE1572_754	yes	sce_556	yes
A and B	Carbohydrates	One-carbon Metabolism	One-carbon metabolism by tetrahydropterines	Methenyltetrahydrofolate cyclohydrolase (EC 3.5.4.9)	SCE1572_4947	yes	sce_4161	yes
A and B	Carbohydrates	One-carbon Metabolism	One-carbon metabolism by tetrahydropterines	Methylenetetrahydrofolate dehydrogenase (NADP) (EC 1.5.1.5)	SCE1572_4947	yes	sce_4161	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	3-ketoacyl-CoA thiolase (EC 2.3.1.16)	SCE1572_61	yes	sce_51	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	5,10-methylenetetrahydrofolate reductase (EC 1.5.1.20)	SCE1572_7802	yes	sce_6607	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	5-formyltetrahydrofolate cyclo-ligase (EC 6.3.3.2)	SCE1572_9050	yes	sce_7810	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Acetyl-CoA acetyltransferase (EC 2.3.1.9)	SCE1572_61	yes	sce_51	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Aconitate hydratase (EC 4.2.1.3)	SCE1572_5235	yes	sce_4390	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Citrate synthase (si) (EC 2.3.3.1)	SCE1572_2382	yes	sce_1933	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Enolase (EC 4.2.1.11)	SCE1572_9808	yes	sce_8614	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Fumarate hydratase class I, aerobic (EC 4.2.1.2)	SCE1572_593	yes	sce_402	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Isocitrate lyase (EC 4.1.3.1)	SCE1572_11040	yes	sce_9752	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Malate dehydrogenase (EC 1.1.1.37)	SCE1572_1660	yes	sce_1175	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Methenyltetrahydrofolate cyclohydrolase (EC 3.5.4.9)	SCE1572_4947	yes	sce_4161	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)	SCE1572_2729	yes	sce_2267	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Methylcrotonyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.	SCE1572_3419	yes	sce_2906	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Methylenetetrahydrofolate dehydrogenase (NADP) (EC 1.5.1.5)	SCE1572_4947	yes	sce_4161	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Methylmalonyl-CoA mutase (EC 5.4.99.2)	SCE1572_3702	yes	sce_3052	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Propionyl-CoA carboxylase beta chain (EC 6.4.1.3)	SCE1572_9348	yes	sce_8129	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Propionyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.1.3)	SCE1572_4445	yes	sce_3690	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Serine hydroxymethyltransferase (EC 2.1.2.1)	SCE1572_8655	yes	sce_7370	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Serine--pyruvate aminotransferase (EC 2.6.1.51)	SCE1572_704	yes	sce_501	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Succinate dehydrogenase flavoprotein subunit (EC 1.3.99.1)	SCE1572_8615	yes	sce_3094	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Succinate dehydrogenase iron-sulfur protein (EC 1.3.99.1)	SCE1572_8616	yes	sce_7336	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Succinyl-CoA ligase [ADP-forming] alpha chain (EC 6.2.1.5)	SCE1572_11373	yes	sce_10210	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Succinyl-CoA ligase [ADP-forming] beta chain (EC 6.2.1.5)	SCE1572_3507	yes	sce_2990	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit A (EC 2.8.3.	SCE1572_7617	yes	sce_6477	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit B (EC 2.8.3.	SCE1572_7618	yes	sce_6478	yes
A and B	Carbohydrates	One-carbon Metabolism	Serine-glyoxylate cycle	isobutyryl-CoA dehydrogenase	SCE1572_889	yes	sce_662	yes
A and B	Carbohydrates	Organic acids	Glycerate metabolism	D-glycerate 2-kinase (EC 2.7.1.-)	SCE1572_4036	yes	sce_3364	yes
A and B	Carbohydrates	Organic acids	Glycerate metabolism	Pyruvate kinase (EC 2.7.1.40)	SCE1572_6128	yes	sce_5073	yes
A and B	Carbohydrates	Organic acids	Propionyl-CoA to Succinyl-CoA Module	B12 binding domain of Methylmalonyl-CoA mutase (EC 5.4.99.2)	SCE1572_2298	yes	sce_1845	yes
A and B	Carbohydrates	Organic acids	Propionyl-CoA to Succinyl-CoA Module	Methylmalonyl-CoA decarboxylase, alpha chain (EC 4.1.1.41)	SCE1572_2434	yes	sce_1988	yes
A and B	Carbohydrates	Organic acids	Propionyl-CoA to Succinyl-CoA Module	Methylmalonyl-CoA epimerase (EC 5.1.99.1)	SCE1572_3701	yes	sce_3051	yes
A and B	Carbohydrates	Organic acids	Propionyl-CoA to Succinyl-CoA Module	Methylmalonyl-CoA mutase (EC 5.4.99.2)	SCE1572_3702	yes	sce_3052	yes
A and B	Carbohydrates	Organic acids	Propionyl-CoA to Succinyl-CoA Module	Propionyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.3)	SCE1572_4444	yes	sce_3689	yes
A and B	Carbohydrates	Organic acids	Propionyl-CoA to Succinyl-CoA Module	Propionyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.1.3)	SCE1572_4445	yes	sce_3690	yes
B	Carbohydrates	Organic acids	Glycerate metabolism	Glycerate kinase (EC 2.7.1.31)		no	sce_3986	yes
A and B	Carbohydrates	Polysaccharides	Alpha-Amylase locus in Streptocococcus	Maltose/maltodextrin ABC transporter, substrate binding periplasmic pr	SCE1572_6789	yes	sce_5648	yes
A and B	Carbohydrates	Polysaccharides	Alpha-Amylase locus in Streptocococcus	putative esterase	SCE1572_1003	yes	sce_758	yes
A and B	Carbohydrates	Polysaccharides	Glycogen metabolism	1,4-alpha-glucan (glycogen) branching enzyme, GH-13-type (EC 2.4.1.	SCE1572_6074	yes	sce_5020	yes
A and B	Carbohydrates	Polysaccharides	Glycogen metabolism	4-alpha-glucanotransferase (amylomaltase) (EC 2.4.1.25)	SCE1572_586	yes	sce_396	yes
A and B	Carbohydrates	Polysaccharides	Glycogen metabolism	Glucose-1-phosphate adenylyltransferase (EC 2.7.7.27)	SCE1572_7285	yes	sce_5988	yes
A and B	Carbohydrates	Polysaccharides	Glycogen metabolism	Glycogen branching enzyme, GH-57-type, archaeal (EC 2.4.1.18)	SCE1572_2268	yes	sce_1812	yes
A and B	Carbohydrates	Polysaccharides	Glycogen metabolism	Glycogen debranching enzyme (EC 3.2.1.-)	SCE1572_1926	yes	sce_1444	yes
A and B	Carbohydrates	Polysaccharides	Glycogen metabolism	Glycogen phosphorylase (EC 2.4.1.1)	SCE1572_5906	yes	sce_4909	yes
A and B	Carbohydrates	Polysaccharides	Glycogen metabolism	Glycogen synthase, ADP-glucose transglucosylase (EC 2.4.1.21)	SCE1572_1673	yes	sce_1189	yes
A and B	Carbohydrates	Polysaccharides	Glycogen metabolism	Putative glycogen debranching enzyme, archaeal type, TIGR01561	SCE1572_3280	yes	sce_2560	yes
A and B	Carbohydrates	Sugar alcohols	Glycerol and Glycerol-3-phosphate Uptake and Utilization	Anaerobic glycerol-3-phosphate dehydrogenase subunit A (EC 1.1.5.3)	SCE1572_10981	yes	sce_9703	yes
A and B	Carbohydrates	Sugar alcohols	Glycerol and Glycerol-3-phosphate Uptake and Utilization	Anaerobic glycerol-3-phosphate dehydrogenase subunit B (EC 1.1.5.3)	SCE1572_10980	yes	sce_9702	yes
A and B	Carbohydrates	Sugar alcohols	Glycerol and Glycerol-3-phosphate Uptake and Utilization	Glycerol kinase (EC 2.7.1.30)	SCE1572_9720	yes	sce_8524	yes
A and B	Carbohydrates	Sugar alcohols	Glycerol and Glycerol-3-phosphate Uptake and Utilization	Glycerol-3-phosphate ABC transporter, ATP-binding protein UgpC (TC	SCE1572_11516	yes	sce_10349	yes
A and B	Carbohydrates	Sugar alcohols	Glycerol and Glycerol-3-phosphate Uptake and Utilization	Glycerol-3-phosphate ABC transporter, periplasmic glycerol-3-phospha	SCE1572_11517	yes	sce_10350	yes
A and B	Carbohydrates	Sugar alcohols	Glycerol and Glycerol-3-phosphate Uptake and Utilization	Glycerol-3-phosphate dehydrogenase (EC 1.1.5.3)	SCE1572_1855	yes	sce_1309	yes
A and B	Carbohydrates	Sugar alcohols	Glycerol and Glycerol-3-phosphate Uptake and Utilization	Glycerol-3-phosphate dehydrogenase [NAD(P)] (EC 1.1.1.94)	SCE1572_9359	yes	sce_8140	yes
A and B	Carbohydrates	Sugar alcohols	Glycerol and Glycerol-3-phosphate Uptake and Utilization	Glycerol-3-phosphate transporter	SCE1572_9117	yes	sce_7899	yes
A and B	Carbohydrates	Sugar alcohols	Glycerol and Glycerol-3-phosphate Uptake and Utilization	Glycerophosphoryl diester phosphodiesterase (EC 3.1.4.46)	SCE1572_1970	yes	sce_5734	yes
A	Carbohydrates	Sugar alcohols	Inositol catabolism	Inositol oxygenase (EC 1.13.99.1)	SCE1572_6538	yes		no
A	Carbohydrates	Sugar alcohols	Inositol catabolism	Predicted transcriptional regulator of the myo-inositol catabolic operon	SCE1572_5450	yes		no
A	Carbohydrates	no subcategory	VC0266	Hypothetical protein VC0266 (sugar utilization related?)	SCE1572_3697	yes		no
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Cell division protein FtsA	SCE1572_2310	yes	sce_1857	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Cell division protein FtsI [Peptidoglycan synthetase] (EC 2.4.1.129)	SCE1572_2302	yes	sce_1849	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Cell division protein FtsK	SCE1572_4011	yes	sce_1797	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Cell division protein FtsQ	SCE1572_2309	yes	sce_1856	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Cell division protein FtsW	SCE1572_2306	yes	sce_1853	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Cell division protein FtsZ (EC 3.4.24.-)	SCE1572_2311	yes	sce_1403	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Cell division protein MraZ	SCE1572_2299	yes	sce_1846	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Cell division topological specificity factor MinE	SCE1572_4515	yes	sce_3772	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Chromosome (plasmid) partitioning protein ParA	SCE1572_4209	yes	sce_1641	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Chromosome (plasmid) partitioning protein ParB	SCE1572_4208	yes	sce_3526	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Rod shape-determining protein MreB	SCE1572_3202	yes	sce_2696	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Rod shape-determining protein MreC	SCE1572_3203	yes	sce_2697	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Rod shape-determining protein RodA	SCE1572_3206	yes	sce_2700	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Septum formation protein Maf	SCE1572_748	yes	sce_551	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Septum site-determining protein MinC	SCE1572_4501	yes	sce_3764	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Septum site-determining protein MinD	SCE1572_4514	yes	sce_3771	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Sporulation initiation inhibitor protein Soj	SCE1572_5309	yes	sce_1641	yes
A and B	Cell Division and Cell Cycle	no subcategory	Bacterial Cytoskeleton	Stage 0 sporulation protein J	SCE1572_4208	yes	sce_3526	yes
A and B	Cell Division and Cell Cycle	no subcategory	Macromolecular synthesis operon	Carbamoyl-phosphate synthase large chain (EC 6.3.5.5)	SCE1572_3193	yes	sce_2685	yes
A and B	Cell Division and Cell Cycle	no subcategory	Macromolecular synthesis operon	Carbamoyl-phosphate synthase small chain (EC 6.3.5.5)	SCE1572_3194	yes	sce_2686	yes
A and B	Cell Division and Cell Cycle	no subcategory	Macromolecular synthesis operon	DNA primase (EC 2.7.7.-)	SCE1572_6017	yes	sce_4970	yes
A and B	Cell Division and Cell Cycle	no subcategory	Macromolecular synthesis operon	RNA polymerase sigma factor RpoD	SCE1572_379	yes	sce_211	yes
A and B	Cell Division and Cell Cycle	no subcategory	Macromolecular synthesis operon	SSU ribosomal protein S21p	SCE1572_2397	yes	sce_1951	yes
A and B	Cell Division and Cell Cycle	no subcategory	Macromolecular synthesis operon	YgjD/Kae1/Qri7 family, required for N6-threonylcarbamoyl adenosine	SCE1572_2254	yes	sce_1799	yes
A and B	Cell Division and Cell Cycle	no subcategory	MukBEF Chromosome Condensation	Chromosome partition protein MukB	SCE1572_4305	yes	sce_6370	yes

A and B	Cell Division and Cell Cycle	no subcategory	MukBEF Chromosome Condensation	Chromosome partition protein MukE	SCE1572_4306	yes	sce_6371	yes
A and B	Cell Division and Cell Cycle	no subcategory	MukBEF Chromosome Condensation	Chromosome partition protein MukF	SCE1572_4307	yes	sce_6372	yes
A and B	Cell Division and Cell Cycle	no subcategory	MukBEF Chromosome Condensation	Membrane Protein Functionally coupled to the MukBEF Chromosome	SCE1572_1346	yes	sce_971	yes
A and B	Cell Division and Cell Cycle	no subcategory	YgjD and YeaZ	Inactive homolog of metal-dependent proteases, putative molecular cha	SCE1572_2318	yes	sce_1865	yes
A and B	Cell Division and Cell Cycle	no subcategory	YgjD and YeaZ	YgjD/Kae1/Qri7 family, required for N6-threonylcarbamoyl adenosine	SCE1572_2254	yes	sce_1799	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Capsular heptose biosynthesis	D,D-heptose 7-phosphate kinase	SCE1572_838	yes	sce_635	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Capsular heptose biosynthesis	D-glycero-D-manno-heptose 1,7-bisphosphate phosphatase (EC 3.1.1.-	SCE1572_4996	yes	sce_4200	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Capsular heptose biosynthesis	Phosphoheptose isomerase (EC 5.3.1.-)	SCE1572_4995	yes	sce_4199	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Exopolysaccharide Biosynthesis	Capsular polysaccharide synthesis enzyme CpsC, polysaccharide expor	SCE1572_7842	yes	sce_6646	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Exopolysaccharide Biosynthesis	Capsular polysaccharide synthesis enzyme CpsD, exopolysaccharide sy	SCE1572_9410	yes	sce_8192	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Exopolysaccharide Biosynthesis	Exopolysaccharide biosynthesis glycosyltransferase EpsF (EC 2.4.1.-)	SCE1572_7325	yes	sce_6112	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Exopolysaccharide Biosynthesis	Glycosyl transferase, group 1 family protein	SCE1572_1609	yes	sce_1148	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Exopolysaccharide Biosynthesis	Glycosyl transferase, group 2 family protein	SCE1572_1345	yes	sce_970	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Exopolysaccharide Biosynthesis	Manganese-dependent protein-tyrosine phosphatase (EC 3.1.3.48)	SCE1572_7864	yes	sce_6664	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Exopolysaccharide Biosynthesis	Tyrosine-protein kinase EpsD (EC 2.7.10.2)	SCE1572_1361	yes	sce_987	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Exopolysaccharide Biosynthesis	Undecaprenyl-phosphate galactosephosphotransferase (EC 2.7.8.6)	SCE1572_4803	yes	sce_4018	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Rhamnose containing glycans	Glucose-1-phosphate thymidylyltransferase (EC 2.7.7.24)	SCE1572_11044	yes	sce_7609	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Rhamnose containing glycans	UDP-glucose 4-epimerase (EC 5.1.3.2)	SCE1572_1369	yes	sce_995	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Rhamnose containing glycans	dTDP-4-dehydrorhamnose reductase (EC 1.1.1.133)	SCE1572_6699	yes	sce_3427	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Rhamnose containing glycans	dTDP-glucose 4,6-dehydratase (EC 4.2.1.46)	SCE1572_8789	yes	sce_7489	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Sialic Acid Metabolism	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] (EC	SCE1572_5465	yes	sce_8287	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Sialic Acid Metabolism	Glucosamine-1-phosphate N-acetyltransferase (EC 2.3.1.157)	SCE1572_7188	yes	sce_5909	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Sialic Acid Metabolism	N-acetylglucosamine-1-phosphate uridyltransferase (EC 2.7.7.23)	SCE1572_7188	yes	sce_5909	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Sialic Acid Metabolism	Phosphoglucosamine mutase (EC 5.4.2.10)	SCE1572_5464	yes	sce_6482	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Sialic Acid Metabolism	Sialic acid transporter (permease) NanT	SCE1572_2086	yes	sce_1596	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Sialic Acid Metabolism	UDP-N-acetylglucosamine 2-epimerase (EC 5.1.3.14)	SCE1572_2892	yes	sce_2786	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	dTDP-rhamnose synthesis	Glucose-1-phosphate cytidylyltransferase (EC 2.7.7.33)	SCE1572_6470	yes	sce_5443	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	dTDP-rhamnose synthesis	Glucose-1-phosphate thymidylyltransferase (EC 2.7.7.24)	SCE1572_11044	yes	sce_7609	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	dTDP-rhamnose synthesis	dTDP-4-dehydrorhamnose reductase (EC 1.1.1.133)	SCE1572_6699	yes	sce_3427	yes
A and B	Cell Wall and Capsule	Capsular and extracellular polysacchrides	dTDP-rhamnose synthesis	dTDP-glucose 4,6-dehydratase (EC 4.2.1.46)	SCE1572_8789	yes	sce_7489	yes
A	Cell Wall and Capsule	Capsular and extracellular polysacchrides	Streptococcal Hyaluronic Acid Capsule	UTP--glucose-1-phosphate uridylyltransferase (EC 2.7.7.9)	SCE1572_9897	yes		no
A and B	Cell Wall and Capsule	Gram-Negative cell wall components	Lipoprotein sorting system	Lipoprotein releasing system ATP-binding protein LolD	SCE1572_1740	yes	sce_1243	yes
A and B	Cell Wall and Capsule	Gram-Negative cell wall components	Lipoprotein sorting system	Lipoprotein releasing system transmembrane protein LolC	SCE1572_1703	yes	sce_1216	yes
A and B	Cell Wall and Capsule	Gram-Negative cell wall components	Lipoprotein sorting system	Outer membrane lipoprotein carrier protein LolA	SCE1572_6824	yes	sce_5686	yes
A and B	Cell Wall and Capsule	Gram-Negative cell wall components	Peptidoglycan lipid II flippase	Proposed peptidoglycan lipid II flippase MurJ	SCE1572_5025	yes	sce_4227	yes
A and B	Cell Wall and Capsule	Gram-Positive cell wall components	Teichuronic acid biosynthesis	Putative teichuronic acid biosynthesis glycosyl transferase TuaC	SCE1572_2396	yes	sce_1950	yes
A and B	Cell Wall and Capsule	Gram-Positive cell wall components	Teichuronic acid biosynthesis	UDP-glucose dehydrogenase (EC 1.1.1.22)	SCE1572_1358	yes	sce_984	yes
A and B	Cell Wall and Capsule	no subcategory	Murein Hydrolases	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	SCE1572_330	yes	sce_4328	yes
A and B	Cell Wall and Capsule	no subcategory	Murein Hydrolases	Membrane-bound lytic murein transglycosylase D precursor (EC 3.2.1.	SCE1572_2236	yes	sce_1784	yes
A and B	Cell Wall and Capsule	no subcategory	Murein Hydrolases	Muramoyltetrapeptide carboxypeptidase (EC 3.4.17.13)	SCE1572_5722	yes	sce_4775	yes
A and B	Cell Wall and Capsule	no subcategory	Murein Hydrolases	N-acetylmuramoyl-L-alanine amidase (EC 3.5.1.28)	SCE1572_5042	yes	sce_4242	yes
A and B	Cell Wall and Capsule	no subcategory	Murein Hydrolases	Soluble lytic murein transglycosylase precursor (EC 3.2.1.-)	SCE1572_1540	yes	sce_1060	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	Cell division protein FtsI [Peptidoglycan synthetase] (EC 2.4.1.129)	SCE1572_2302	yes	sce_1849	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	D-alanine--D-alanine ligase (EC 6.3.2.4)	SCE1572_1374	yes	sce_1000	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	D-alanine--D-alanine ligase A (EC 6.3.2.4)	SCE1572_836	yes	sce_634	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	SCE1572_330	yes	sce_4328	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	Glucosamine-1-phosphate N-acetyltransferase (EC 2.3.1.157)	SCE1572_7188	yes	sce_5909	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	Glutamate racemase (EC 5.1.1.3)	SCE1572_284	yes	sce_5417	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	Glutamine synthetase type I (EC 6.3.1.2)	SCE1572_9287	yes	sce_8068	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	Monofunctional biosynthetic peptidoglycan transglycosylase (EC 2.4.2.-	SCE1572_3414	yes	sce_2900	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	Multimodular transpeptidase-transglycosylase (EC 2.4.1.129) (EC 3.4.-	SCE1572_39	yes	sce_41	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	N-acetylglucosamine-1-phosphate uridyltransferase (EC 2.7.7.23)	SCE1572_7188	yes	sce_5909	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	N-acetylglucosamine-1-phosphate uridyltransferase eukaryotic (EC 2.7.	SCE1572_4115	yes	sce_3465	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	Penicillin-binding protein 2 (PBP-2)	SCE1572_3205	yes	sce_2699	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	Phospho-N-acetylmuramoyl-pentapeptide-transferase (EC 2.7.8.13)	SCE1572_2304	yes	sce_1851	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	Rod shape-determining protein RodA	SCE1572_3206	yes	sce_2700	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	UDP-N-acetylenolpyruvoylglucosamine reductase (EC 1.1.1.158)	SCE1572_9952	yes	sce_8750	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	UDP-N-acetylglucosamine 1-carboxyvinyltransferase (EC 2.5.1.7)	SCE1572_8996	yes	sce_10214	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophos	SCE1572_2307	yes	sce_1854	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	UDP-N-acetylmuramate--alanine ligase (EC 6.3.2.8)	SCE1572_2308	yes	sce_1855	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	UDP-N-acetylmuramoylalanine--D-glutamate ligase (EC 6.3.2.9)	SCE1572_2305	yes	sce_1852	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligas	SCE1572_2303	yes	sce_1850	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan Biosynthesis	UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-diaminopimelate--D-ala	SCE1572_9508	yes	sce_8295	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan biosynthesis--gjo	D-alanine--D-alanine ligase (EC 6.3.2.4)	SCE1572_1374	yes	sce_1000	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan biosynthesis--gjo	D-alanine--D-alanine ligase A (EC 6.3.2.4)	SCE1572_836	yes	sce_634	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan biosynthesis--gjo	UDP-N-acetylmuramate--alanine ligase (EC 6.3.2.8)	SCE1572_2308	yes	sce_1855	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan biosynthesis--gjo	UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-diaminopi	SCE1572_9737	yes	sce_8539	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan biosynthesis--gjo	UDP-N-acetylmuramoylalanine--D-glutamate ligase (EC 6.3.2.9)	SCE1572_2305	yes	sce_1852	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan biosynthesis--gjo	UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligas	SCE1572_2303	yes	sce_1850	yes
A and B	Cell Wall and Capsule	no subcategory	Peptidoglycan biosynthesis--gjo	UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-diaminopimelate--D-ala	SCE1572_9508	yes	sce_8295	yes
A and B	Cell Wall and Capsule	no subcategory	Recycling of Peptidoglycan Amino Acids	AmpG permease	SCE1572_1393	yes	sce_1005	yes
A and B	Cell Wall and Capsule	no subcategory	Recycling of Peptidoglycan Amino Acids	Muramoyltetrapeptide carboxypeptidase (EC 3.4.17.13)	SCE1572_5722	yes	sce_4775	yes
A and B	Cell Wall and Capsule	no subcategory	Recycling of Peptidoglycan Amino Acids	N-acetylmuramoyl-L-alanine amidase (EC 3.5.1.28)	SCE1572_5042	yes	sce_4242	yes
A and B	Cell Wall and Capsule	no subcategory	Recycling of Peptidoglycan Amino Acids	UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-diaminopi	SCE1572_9737	yes	sce_8539	yes
A and B	Cell Wall and Capsule	no subcategory	UDP-N-acetylmuramate from Fructose-6-phosphate Biosynthes	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] (EC	SCE1572_5465	yes	sce_8287	yes
A and B	Cell Wall and Capsule	no subcategory	UDP-N-acetylmuramate from Fructose-6-phosphate Biosynthes	Glucosamine-1-phosphate N-acetyltransferase (EC 2.3.1.157)	SCE1572_7188	yes	sce_5909	yes
A and B	Cell Wall and Capsule	no subcategory	UDP-N-acetylmuramate from Fructose-6-phosphate Biosynthes	N-acetylglucosamine-1-phosphate uridyltransferase (EC 2.7.7.23)	SCE1572_7188	yes	sce_5909	yes
A and B	Cell Wall and Capsule	no subcategory	UDP-N-acetylmuramate from Fructose-6-phosphate Biosynthes	N-acetylglucosamine-1-phosphate uridyltransferase eukaryotic (EC 2.7.	SCE1572_4115	yes	sce_3465	yes
A and B	Cell Wall and Capsule	no subcategory	UDP-N-acetylmuramate from Fructose-6-phosphate Biosynthes	Phosphoglucosamine mutase (EC 5.4.2.10)	SCE1572_5464	yes	sce_6482	yes
A and B	Cell Wall and Capsule	no subcategory	UDP-N-acetylmuramate from Fructose-6-phosphate Biosynthes	UDP-N-acetylenolpyruvoylglucosamine reductase (EC 1.1.1.158)	SCE1572_9952	yes	sce_8750	yes
A and B	Cell Wall and Capsule	no subcategory	UDP-N-acetylmuramate from Fructose-6-phosphate Biosynthes	UDP-N-acetylglucosamine 1-carboxyvinyltransferase (EC 2.5.1.7)	SCE1572_8996	yes	sce_10214	yes
A and B	Cell Wall and Capsule	no subcategory	YjeE	ATPase YjeE, predicted to have essential role in cell wall biosynthesis	SCE1572_10671	yes	sce_9283	yes
A and B	Cell Wall and Capsule	no subcategory	YjeE	COG3178: Predicted phosphotransferase related to Ser/Thr protein kina	SCE1572_10884	yes	sce_9513	yes
A and B	Cell Wall and Capsule	no subcategory	YjeE	Inactive homolog of metal-dependent proteases, putative molecular cha	SCE1572_2318	yes	sce_1865	yes
A and B	Cell Wall and Capsule	no subcategory	YjeE	NAD(P)HX dehydratase	SCE1572_552	yes	sce_358	yes
A and B	Cell Wall and Capsule	no subcategory	YjeE	NAD(P)HX epimerase	SCE1572_552	yes	sce_358	yes
A and B	Clustering-based subsystems	2 proteases and a MoxR	CBSS-1140.3.peg.2017	FIG001454: Transglutaminase-like enzymes, putative cysteine proteases	SCE1572_10642	yes	sce_9247	yes
A and B	Clustering-based subsystems	2 proteases and a MoxR	CBSS-1140.3.peg.2017	FIG002343: hypothetical protein	SCE1572_10643	yes	sce_9248	yes
A and B	Clustering-based subsystems	2 proteases and a MoxR	CBSS-1140.3.peg.2017	FIG022979: MoxR-like ATPases	SCE1572_6012	yes	sce_4964	yes
B	Clustering-based subsystems	Biosynthesis of galactoglycans and related lipo	CBSS-258594.1.peg.3339	Tyrosine-protein kinase Wzc (EC 2.7.10.2)		no	sce_6732	yes
A and B	Clustering-based subsystems	Cell Division	Bacterial cell division cluster	Cell division topological specificity factor MinE	SCE1572_4515	yes	sce_3772	yes
A and B	Clustering-based subsystems	Cell Division	Bacterial cell division cluster	DNA repair protein RadC	SCE1572_140	yes	sce_512	yes
A and B	Clustering-based subsystems	Cell Division	Bacterial cell division cluster	Penicillin-binding protein 2 (PBP-2)	SCE1572_3205	yes	sce_2699	yes
A and B	Clustering-based subsystems	Cell Division	Bacterial cell division cluster	Rod shape-determining protein MreB	SCE1572_3202	yes	sce_2696	yes
A and B	Clustering-based subsystems	Cell Division	Bacterial cell division cluster	Rod shape-determining protein MreC	SCE1572_3203	yes	sce_2697	yes
A and B	Clustering-based subsystems	Cell Division	Bacterial cell division cluster	Rod shape-determining protein RodA	SCE1572_3206	yes	sce_2700	yes
A and B	Clustering-based subsystems	Cell Division	Bacterial cell division cluster	Septum formation protein Maf	SCE1572_748	yes	sce_551	yes
A and B	Clustering-based subsystems	Cell Division	Bacterial cell division cluster	Septum site-determining protein MinC	SCE1572_4501	yes	sce_3764	yes
A and B	Clustering-based subsystems	Cell Division	Bacterial cell division cluster	Septum site-determining protein MinD	SCE1572_4514	yes	sce_3771	yes
A and B	Clustering-based subsystems	Cell Division	Septum site-determining cluster Min	Cell division topological specificity factor MinE	SCE1572_4515	yes	sce_3772	yes
A and B	Clustering-based subsystems	Cell Division	Septum site-determining cluster Min	Septum site-determining protein MinC	SCE1572_4501	yes	sce_3764	yes
A and B	Clustering-based subsystems	Cell Division	Septum site-determining cluster Min	Septum site-determining protein MinD	SCE1572_4514	yes	sce_3771	yes
A and B	Clustering-based subsystems	Cell Division	cell division cluster containing FtsQ	Cell division protein FtsA	SCE1572_2310	yes	sce_1857	yes
A and B	Clustering-based subsystems	Cell Division	cell division cluster containing FtsQ	Cell division protein FtsQ	SCE1572_2309	yes	sce_1856	yes
A and B	Clustering-based subsystems	Cell Division	cell division cluster containing FtsQ	Cell division protein FtsW	SCE1572_2306	yes	sce_1853	yes
A and B	Clustering-based subsystems	Cell Division	cell division cluster containing FtsQ	Cell division protein FtsZ (EC 3.4.24.-)	SCE1572_2311	yes	sce_1403	yes
A and B	Clustering-based subsystems	Cell Division	cell division cluster containing FtsQ	D-alanine--D-alanine ligase (EC 6.3.2.4)	SCE1572_1374	yes	sce_1000	yes
A and B	Clustering-based subsystems	Cell Division	cell division cluster containing FtsQ	D-alanine--D-alanine ligase A (EC 6.3.2.4)	SCE1572_836	yes	sce_634	yes
A and B	Clustering-based subsystems	Cell Division	cell division cluster containing FtsQ	UDP-N-acetylmuramate--alanine ligase (EC 6.3.2.8)	SCE1572_2308	yes	sce_1855	yes
A and B	Clustering-based subsystems	Cell Division	cell division core of larger cluster	Cell division protein FtsA	SCE1572_2310	yes	sce_1857	yes
A and B	Clustering-based subsystems	Cell Division	cell division core of larger cluster	Cell division protein FtsQ	SCE1572_2309	yes	sce_1856	yes
A and B	Clustering-based subsystems	Cell Division	cell division core of larger cluster	Cell division protein FtsZ (EC 3.4.24.-)	SCE1572_2311	yes	sce_1403	yes
A and B	Clustering-based subsystems	Cell Division	cell division core of larger cluster	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophos	SCE1572_2307	yes	sce_1854	yes
A and B	Clustering-based subsystems	Central carbohydrate metabolism	Glyoxylate bypass cluster	Isocitrate lyase (EC 4.1.3.1)	SCE1572_11040	yes	sce_9752	yes
A and B	Clustering-based subsystems	Central carbohydrate metabolism	Glyoxylate bypass cluster	Malate synthase (EC 2.3.3.9)	SCE1572_11039	yes	sce_9751	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	3,4-dihydroxy-2-butanone 4-phosphate synthase (EC 4.1.99.12)	SCE1572_2917	yes	sce_2550	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	5-amino-6-(5-phosphoribosylamino)uracil reductase (EC 1.1.1.193)	SCE1572_403	yes	sce_4267	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	6,7-dimethyl-8-ribityllumazine synthase (EC 2.5.1.78)	SCE1572_9354	yes	sce_8135	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	ATP phosphoribosyltransferase (EC 2.4.2.17)	SCE1572_11377	yes	sce_10213	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	C-terminal domain of CinA type S	SCE1572_10489	yes	sce_9136	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	Diaminohydroxyphosphoribosylaminopyrimidine deaminase (EC 3.5.4.	SCE1572_403	yes	sce_4267	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	GTP cyclohydrolase II (EC 3.5.4.25)	SCE1572_2917	yes	sce_2550	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	Inner membrane protein YihY, formerly thought to be RNase BN	SCE1572_8556	yes	sce_7296	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	NADH dehydrogenase (EC 1.6.99.3)	SCE1572_557	yes	sce_360	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	Orotidine 5'-phosphate decarboxylase (EC 4.1.1.23)	SCE1572_4935	yes	sce_4146	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	Phosphoribosyl-ATP pyrophosphatase (EC 3.6.1.31)	SCE1572_641	yes	sce_450	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	Riboflavin synthase eubacterial/eukaryotic (EC 2.5.1.9)	SCE1572_9352	yes	sce_8133	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	Ribulose-phosphate 3-epimerase (EC 5.1.3.1)	SCE1572_10509	yes	sce_9159	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	Thiamine-monophosphate kinase (EC 2.7.4.16)	SCE1572_628	yes	sce_436	yes
A and B	Clustering-based subsystems	Cofactors	Riboflavin synthesis cluster	Transcription termination protein NusB	SCE1572_9355	yes	sce_8136	yes
A and B	Clustering-based subsystems	Cytochrome biogenesis	CBSS-196164.1.peg.461	Cytochrome c-type biogenesis protein CcdA (DsbD analog)	SCE1572_10897	yes	sce_9530	yes
A and B	Clustering-based subsystems	Cytochrome biogenesis	CBSS-196164.1.peg.461	Glutamate-1-semialdehyde aminotransferase (EC 5.4.3.8)	SCE1572_11399	yes	sce_4351	yes
A and B	Clustering-based subsystems	Cytochrome biogenesis	CBSS-196164.1.peg.461	Thiol:disulfide oxidoreductase related to ResA	SCE1572_9313	yes	sce_8093	yes
A and B	Clustering-based subsystems	D-tyrosyl-tRNA(Tyr) deacylase (EC 3.1.-.-) cl	CBSS-342610.3.peg.283	D-tyrosyl-tRNA(Tyr) deacylase	SCE1572_8453	yes	sce_7213	yes
A and B	Clustering-based subsystems	D-tyrosyl-tRNA(Tyr) deacylase (EC 3.1.-.-) cl	CBSS-342610.3.peg.283	Inner membrane protein YihY, formerly thought to be RNase BN	SCE1572_8556	yes	sce_7296	yes
A and B	Clustering-based subsystems	DNA metabolism	Rad50-Mre11 DNA repair cluster	Bipolar DNA helicase	SCE1572_8984	yes	sce_6886	yes
A and B	Clustering-based subsystems	DNA metabolism	Rad50-Mre11 DNA repair cluster	DNA double-strand break repair protein Mre11	SCE1572_8194	yes	sce_8023	yes
A and B	Clustering-based subsystems	DNA metabolism	Rad50-Mre11 DNA repair cluster	Exonuclease SbcC	SCE1572_6457	yes	sce_3501	yes
A	Clustering-based subsystems	DNA metabolism	Rad50-Mre11 DNA repair cluster	DNA double-strand break repair Rad50 ATPase	SCE1572_7727	yes		no
A and B	Clustering-based subsystems	DNA polymerase III epsilon cluster	CBSS-342610.3.peg.1536	DNA polymerase III epsilon subunit (EC 2.7.7.7)	SCE1572_2355	yes	sce_1906	yes
A and B	Clustering-based subsystems	DNA polymerase III epsilon cluster	CBSS-342610.3.peg.1536	Hydroxyacylglutathione hydrolase (EC 3.1.2.6)	SCE1572_10143	yes	sce_8946	yes
A and B	Clustering-based subsystems	DNA polymerase III epsilon cluster	CBSS-342610.3.peg.1536	Membrane-bound lytic murein transglycosylase D precursor (EC 3.2.1.	SCE1572_2236	yes	sce_1784	yes
A and B	Clustering-based subsystems	DNA polymerase III epsilon cluster	CBSS-342610.3.peg.1536	Ribonuclease HI (EC 3.1.26.4)	SCE1572_1626	yes	sce_1164	yes
A and B	Clustering-based subsystems	Drug resistance or antibiotic biosynthesis relate	CBSS-1085.1.peg.1363	Antibiotic biosynthesis monooxygenase	SCE1572_1841	yes	sce_1303	yes
A and B	Clustering-based subsystems	Drug resistance or antibiotic biosynthesis relate	CBSS-1085.1.peg.1363	Transcriptional regulator, ArsR family	SCE1572_1418	yes	sce_1259	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	SCE1572_1051	yes	sce_753	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)	SCE1572_3336	yes	sce_2832	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)	SCE1572_312	yes	sce_1349	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	Acyl carrier protein	SCE1572_860	yes	sce_3570	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	COG1399 protein in cluster with ribosomal protein L32p, putative diver	SCE1572_5087	yes	sce_4275	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	Chromosome partition protein smc	SCE1572_2390	yes	sce_1942	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	FIG004453: protein YceG like	SCE1572_5816	yes	sce_4865	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	GTP-binding protein EngA	SCE1572_7858	yes	sce_3287	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	GTP-binding protein Era	SCE1572_7857	yes	sce_6660	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	LSU ribosomal protein L32p	SCE1572_5086	yes	sce_4274	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	SCE1572_592	yes	sce_401	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	Ribonuclease E (EC 3.1.26.12)	SCE1572_8450	yes	sce_59	yes
A and B	Clustering-based subsystems	Fatty acid metabolic cluster	COG1399	Thymidylate kinase (EC 2.7.4.9)	SCE1572_1302	yes	sce_937	yes
A and B	Clustering-based subsystems	Hypothetical protein possible functionally linke	CBSS-257314.1.peg.488	Alanyl-tRNA synthetase (EC 6.1.1.7)	SCE1572_6877	yes	sce_5742	yes
A and B	Clustering-based subsystems	Hypothetical protein possible functionally linke	CBSS-257314.1.peg.488	Putative Holliday junction resolvase (EC 3.1.-.-)	SCE1572_6134	yes	sce_5078	yes
A and B	Clustering-based subsystems	Lysine, threonine, methionine, and cysteine	CBSS-84588.1.peg.1247	Cysteine desulfurase (EC 2.8.1.7)	SCE1572_1872	yes	sce_1345	yes
A and B	Clustering-based subsystems	Lysine, threonine, methionine, and cysteine	CBSS-84588.1.peg.1247	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	SCE1572_330	yes	sce_4328	yes
A and B	Clustering-based subsystems	Lysine, threonine, methionine, and cysteine	CBSS-84588.1.peg.1247	Diaminopimelate epimerase (EC 5.1.1.7)	SCE1572_10476	yes	sce_9121	yes
A and B	Clustering-based subsystems	May be related to ADP-phosphoribose and NA	CBSS-216591.1.peg.168	ADP-ribose pyrophosphatase (EC 3.6.1.13)	SCE1572_3103	yes	sce_2621	yes
A and B	Clustering-based subsystems	May be related to ADP-phosphoribose and NA	CBSS-216591.1.peg.168	Alpha-ribazole-5'-phosphate phosphatase (EC 3.1.3.73)	SCE1572_8977	yes	sce_7736	yes
A and B	Clustering-based subsystems	May be related to ADP-phosphoribose and NA	CBSS-216591.1.peg.168	Aspartate aminotransferase (EC 2.6.1.1)	SCE1572_689	yes	sce_1273	yes

A and B	Clustering-based subsystems	May be related to ADP-phosphoribose and NA	CBSS-216591.1.peg.168	Aspartokinase (EC 2.7.2.4)	SCE1572_3345	yes	sce_2841	yes
A and B	Clustering-based subsystems	May be related to ADP-phosphoribose and NA	CBSS-216591.1.peg.168	Competence protein F homolog, phosphoribosyltransferase domain	SCE1572_9377	yes	sce_8158	yes
A and B	Clustering-based subsystems	May be related to ADP-phosphoribose and NA	CBSS-216591.1.peg.168	Histone acetyltransferase HPA2 and related acetyltransferases	SCE1572_1899	yes	sce_1411	yes
A and B	Clustering-based subsystems	May be related to ADP-phosphoribose and NA	CBSS-216591.1.peg.168	Predicted aminoglycoside phosphotransferase	SCE1572_6531	yes	sce_9961	yes
A	Clustering-based subsystems	May be related to ADP-phosphoribose and NA	CBSS-216591.1.peg.168	NTP pyrophosphohydrolases including oxidative damage repair enzyme	SCE1572_7134	yes		no
A and B	Clustering-based subsystems	Phosphate metabolism	PhoR-PhoB two-component regulatory system	Phosphate ABC transporter, periplasmic phosphate-binding protein PstS	SCE1572_3980	yes	sce_3309	yes
A and B	Clustering-based subsystems	Phosphate metabolism	PhoR-PhoB two-component regulatory system	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)	SCE1572_783	yes	sce_437	yes
A and B	Clustering-based subsystems	Phosphate metabolism	PhoR-PhoB two-component regulatory system	Phosphate regulon transcriptional regulatory protein PhoB (SphR)	SCE1572_1238	yes	sce_3311	yes
B	Clustering-based subsystems	Probably GTP or GMP signaling related	CBSS-176299.4.peg.1292	Ribonuclease III (EC 3.1.26.3)		no	sce_1892	yes
A and B	Clustering-based subsystems	Probably organic hydroperoxide resistance rela	CBSS-269482.1.peg.1294	Homoserine kinase (EC 2.7.1.39)	SCE1572_633	yes	sce_441	yes
A and B	Clustering-based subsystems	Probably organic hydroperoxide resistance rela	CBSS-269482.1.peg.1294	Organic hydroperoxide resistance protein	SCE1572_360	yes	sce_201	yes
A and B	Clustering-based subsystems	Probably organic hydroperoxide resistance rela	CBSS-269482.1.peg.1294	Organic hydroperoxide resistance transcriptional regulator	SCE1572_5122	yes	sce_4310	yes
A and B	Clustering-based subsystems	Putative Isoquinoline 1-oxidoreductase subunit	CBSS-314267.3.peg.390	Isoquinoline 1-oxidoreductase alpha subunit (EC 1.3.99.16)	SCE1572_6274	yes	sce_3739	yes
A and B	Clustering-based subsystems	Putative Isoquinoline 1-oxidoreductase subunit	CBSS-314267.3.peg.390	Isoquinoline 1-oxidoreductase beta subunit (EC 1.3.99.16)	SCE1572_6275	yes	sce_3738	yes
A and B	Clustering-based subsystems	Putative Isoquinoline 1-oxidoreductase subunit	CBSS-314267.3.peg.390	Putative Isoquinoline 1-oxidoreductase subunit, Mll3835 protein	SCE1572_8375	yes	sce_7087	yes
A	Clustering-based subsystems	Putative asociate of RNA polymerase sigma-54	CBSS-316057.3.peg.1308	Sigma-70 region 2:Sigma-70 region 4	SCE1572_10133	yes		no
A	Clustering-based subsystems	Putative asociate of RNA polymerase sigma-54	CBSS-316057.3.peg.1308	Transmembrane regulator protein PrtR	SCE1572_2450	yes		no
A and B	Clustering-based subsystems	Sulfatases and sulfatase modifying factor 1 (an	Sulfatases and sulfatase modifying factor 1	Arylsulfatase (EC 3.1.6.1)	SCE1572_277	yes	sce_3154	yes
A and B	Clustering-based subsystems	Sulfatases and sulfatase modifying factor 1 (an	Sulfatases and sulfatase modifying factor 1	Choline-sulfatase (EC 3.1.6.6)	SCE1572_2802	yes	sce_8713	yes
A and B	Clustering-based subsystems	Sulfatases and sulfatase modifying factor 1 (an	Sulfatases and sulfatase modifying factor 1	Sulfatase	SCE1572_4815	yes	sce_1066	yes
A and B	Clustering-based subsystems	Sulfatases and sulfatase modifying factor 1 (an	Sulfatases and sulfatase modifying factor 1	Sulfatase modifying factor 1 precursor (C-alpha-formyglycine- generati	SCE1572_5072	yes	sce_4261	yes
A and B	Clustering-based subsystems	TldD cluster	CBSS-354.1.peg.2917	Cytoplasmic axial filament protein CafA and Ribonuclease G (EC 3.1.4.	SCE1572_9350	yes	sce_8131	yes
A and B	Clustering-based subsystems	TldD cluster	CBSS-354.1.peg.2917	Rod shape-determining protein MreC	SCE1572_3203	yes	sce_2697	yes
A and B	Clustering-based subsystems	TldD cluster	CBSS-354.1.peg.2917	Septum formation protein Maf	SCE1572_748	yes	sce_551	yes
A and B	Clustering-based subsystems	TldD cluster	CBSS-354.1.peg.2917	TldD protein, part of proposed TldE/TldD proteolytic complex (PMID	SCE1572_8457	yes	sce_7217	yes
A and B	Clustering-based subsystems	Translation	CBSS-243265.1.peg.198	Transcription accessory protein (S1 RNA-binding domain)	SCE1572_5755	yes	sce_4806	yes
A and B	Clustering-based subsystems	Translation	CBSS-243265.1.peg.198	Transcription elongation factor GreB	SCE1572_4795	yes	sce_4010	yes
B	Clustering-based subsystems	heat shock, cell division, proteases, and a meth	Heat shock Cell division Proteases and a Methyltransferase	FIG015287: Zinc protease		no	sce_4289	yes
A and B	Clustering-based subsystems	no subcategory	Aerotolerance operon in Bacteroides and potentially orthologou	BatA (Bacteroides aerotolerance operon)	SCE1572_8537	yes	sce_7280	yes
A and B	Clustering-based subsystems	no subcategory	Aerotolerance operon in Bacteroides and potentially orthologou	BatB	SCE1572_8538	yes	sce_7281	yes
A and B	Clustering-based subsystems	no subcategory	Aerotolerance operon in Bacteroides and potentially orthologou	BatD	SCE1572_8540	yes	sce_7283	yes
A and B	Clustering-based subsystems	no subcategory	Aerotolerance operon in Bacteroides and potentially orthologou	MoxR-like ATPase in aerotolerance operon	SCE1572_7831	yes	sce_6634	yes
A and B	Clustering-based subsystems	no subcategory	Aerotolerance operon in Bacteroides and potentially orthologou	hypothetical protein PA3071	SCE1572_8535	yes	sce_7278	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein BolA	SCE1572_4657	yes	sce_3877	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein FtsA	SCE1572_2310	yes	sce_1857	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein FtsH (EC 3.4.24.-)	SCE1572_669	yes	sce_474	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein FtsI [Peptidoglycan synthetase] (EC 2.4.1.129)	SCE1572_2302	yes	sce_1849	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein FtsJ	SCE1572_2665	yes	sce_2217	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein FtsK	SCE1572_4011	yes	sce_1797	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein FtsQ	SCE1572_2309	yes	sce_1856	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein FtsW	SCE1572_2306	yes	sce_1853	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein FtsX	SCE1572_9306	yes	sce_8086	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein FtsZ (EC 3.4.24.-)	SCE1572_2311	yes	sce_1403	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division protein MraZ	SCE1572_2299	yes	sce_1846	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division topological specificity factor MinE	SCE1572_4515	yes	sce_3772	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division transporter, ATP-binding protein FtsE (TC 3.A.5.1.1)	SCE1572_1574	yes	sce_1125	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cell division trigger factor (EC 5.2.1.8)	SCE1572_4211	yes	sce_3529	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Chromosome (plasmid) partitioning protein ParA	SCE1572_4209	yes	sce_1641	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Cytoplasmic axial filament protein CafA and Ribonuclease G (EC 3.1.4.	SCE1572_9350	yes	sce_8131	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	GTP-binding protein Era	SCE1572_7857	yes	sce_6660	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Rod shape-determining protein MreB	SCE1572_3202	yes	sce_2696	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Rod shape-determining protein MreC	SCE1572_3203	yes	sce_2697	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Septum formation protein Maf	SCE1572_748	yes	sce_551	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Septum site-determining protein MinC	SCE1572_4501	yes	sce_3764	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Septum site-determining protein MinD	SCE1572_4514	yes	sce_3771	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	Signal recognition particle receptor protein FtsY (=alpha subunit) (TC 3	SCE1572_3933	yes	sce_3267	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial Cell Division	rRNA small subunit methyltransferase H	SCE1572_2300	yes	sce_1847	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial RNA-metabolizing Zn-dependent hydrolases	Cell division protein FtsK	SCE1572_4011	yes	sce_1797	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial RNA-metabolizing Zn-dependent hydrolases	Ferric uptake regulation protein FUR	SCE1572_7	yes	sce_7	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial RNA-metabolizing Zn-dependent hydrolases	Inactive homolog of metal-dependent proteases, putative molecular chap	SCE1572_2318	yes	sce_1865	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial RNA-metabolizing Zn-dependent hydrolases	Peptide deformylase (EC 3.5.1.88)	SCE1572_5077	yes	sce_4266	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial RNA-metabolizing Zn-dependent hydrolases	Polyribonucleotide nucleotidyltransferase (EC 2.7.7.8)	SCE1572_6129	yes	sce_5074	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial RNA-metabolizing Zn-dependent hydrolases	Ribonuclease J2 (endoribonuclease in RNA processing)	SCE1572_620	yes	sce_428	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial RNA-metabolizing Zn-dependent hydrolases	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)	SCE1572_7710	yes	sce_6542	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial RNA-metabolizing Zn-dependent hydrolases	Trk system potassium uptake protein TrkA	SCE1572_4368	yes	sce_3654	yes
A and B	Clustering-based subsystems	no subcategory	Bacterial RNA-metabolizing Zn-dependent hydrolases	YgjD/Kae1/Qri7 family, required for N6-threonylcarbamoyl adenosine	SCE1572_2254	yes	sce_1799	yes
A and B	Clustering-based subsystems	no subcategory	Butyrate metabolism cluster	3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)	SCE1572_60	yes	sce_50	yes
A and B	Clustering-based subsystems	no subcategory	Butyrate metabolism cluster	Acetyl-CoA acetyltransferase (EC 2.3.1.9)	SCE1572_61	yes	sce_51	yes
A and B	Clustering-based subsystems	no subcategory	Butyrate metabolism cluster	Enoyl-CoA hydratase (EC 4.2.1.17)	SCE1572_60	yes	sce_50	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-1352.1.peg.856	Transcriptional regulator, PadR family	SCE1572_4122	yes	sce_3467	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-138119.3.peg.2719	Ribosome-binding factor A	SCE1572_7630	yes	sce_6491	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-138119.3.peg.2719	Translation initiation factor 2	SCE1572_7632	yes	sce_3829	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-138119.3.peg.2719	tRNA pseudouridine synthase B (EC 4.2.1.70)	SCE1572_5750	yes	sce_4800	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-176279.3.peg.868	GTP-binding protein Obg	SCE1572_2454	yes	sce_2000	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-176279.3.peg.868	LSU ribosomal protein L21p	SCE1572_10045	yes	sce_8861	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-176279.3.peg.868	LSU ribosomal protein L27p	SCE1572_10044	yes	sce_8860	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-176299.4.peg.1996A	Endoribonuclease L-PSP	SCE1572_472	yes	sce_283	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-176299.4.peg.1996A	Glycerophosphoryl diester phosphodiesterase (EC 3.1.4.46)	SCE1572_1970	yes	sce_5734	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-176299.4.peg.1996B	ATP-dependent Clp protease ATP-binding subunit ClpA	SCE1572_571	yes	sce_373	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-176299.4.peg.1996B	Ribosome recycling factor	SCE1572_8244	yes	sce_6915	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-176299.4.peg.1996B	SSU ribosomal protein S2p (SAe)	SCE1572_4193	yes	sce_3515	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-176299.4.peg.1996B	Translation elongation factor Ts	SCE1572_4194	yes	sce_3516	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-176299.4.peg.1996B	Uridylate kinase (EC 2.7.4.-)	SCE1572_9343	yes	sce_8123	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-188.1.peg.6720	Serine protein kinase (prkA protein), P-loop containing	SCE1572_9023	yes	sce_7778	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-188.1.peg.6720	Stage V sporulation protein involved in spore cortex synthesis (SpoVR)	SCE1572_2420	yes	sce_1974	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-188.1.peg.6720	UPF0229 protein YeaH	SCE1572_2419	yes	sce_1973	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-211586.1.peg.2832	Preprotein translocase subunit YajC (TC 3.A.5.1.1)	SCE1572_6057	yes	sce_5008	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-211586.1.peg.2832	Protein-export membrane protein SecD (TC 3.A.5.1.1)	SCE1572_6056	yes	sce_5007	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-211586.1.peg.2832	Protein-export membrane protein SecF (TC 3.A.5.1.1)	SCE1572_6055	yes	sce_5006	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-211586.1.peg.2832	S-adenosylmethionine:tRNA ribosyltransferase-isomerase (EC 5.-.-.-)	SCE1572_2293	yes	sce_1841	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-211586.1.peg.2832	tRNA-guanine transglycosylase (EC 2.4.2.29)	SCE1572_2294	yes	sce_1842	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-228410.1.peg.134	DNA polymerase III epsilon subunit (EC 2.7.7.7)	SCE1572_2355	yes	sce_1906	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-228410.1.peg.134	Hydroxyacylglutathione hydrolase (EC 3.1.2.6)	SCE1572_10143	yes	sce_8946	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-228410.1.peg.134	Membrane-bound lytic murein transglycosylase D precursor (EC 3.2.1.	SCE1572_2236	yes	sce_1784	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-228410.1.peg.134	Ribonuclease HI (EC 3.1.26.4)	SCE1572_1626	yes	sce_1164	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-266117.6.peg.1260	Phosphopantetheine adenylyltransferase (EC 2.7.7.3)	SCE1572_2357	yes	sce_1908	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-266117.6.peg.1260	Ribosomal RNA small subunit methyltransferase D (EC 2.1.1.-)	SCE1572_10320	yes	sce_9013	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-269801.1.peg.1715	Phosphopantetheine adenylyltransferase (EC 2.7.7.3)	SCE1572_2357	yes	sce_1908	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-269801.1.peg.1715	Ribosomal RNA small subunit methyltransferase D (EC 2.1.1.-)	SCE1572_10320	yes	sce_9013	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-272943.3.peg.1367	DNA topoisomerase I (EC 5.99.1.2)	SCE1572_6867	yes	sce_5730	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-272943.3.peg.1367	Rossmann fold nucleotide-binding protein Smf possibly involved in DNA	SCE1572_6868	yes	sce_5731	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-281090.3.peg.464	Alanyl-tRNA synthetase (EC 6.1.1.7)	SCE1572_6877	yes	sce_5742	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-281090.3.peg.464	FIG004453: protein YceG like	SCE1572_5816	yes	sce_4865	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-281090.3.peg.464	Putative Holliday junction resolvase (EC 3.1.-.-)	SCE1572_6134	yes	sce_5078	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-281090.3.peg.464	Shikimate 5-dehydrogenase I alpha (EC 1.1.1.25)	SCE1572_3015	yes	sce_2476	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-312309.3.peg.1965	Methionine aminopeptidase (EC 3.4.11.18)	SCE1572_1680	yes	sce_1195	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-312309.3.peg.1965	SSU ribosomal protein S2p (SAe)	SCE1572_4193	yes	sce_3515	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-312309.3.peg.1965	Translation elongation factor Ts	SCE1572_4194	yes	sce_3516	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-312309.3.peg.1965	Uridylate kinase (EC 2.7.4.-)	SCE1572_9343	yes	sce_8123	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-312309.3.peg.1965	[Protein-PII] uridylyltransferase (EC 2.7.7.59)	SCE1572_4206	yes	sce_3524	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-316057.3.peg.3521	Glutamate-ammonia-ligase adenylyltransferase (EC 2.7.7.42)	SCE1572_2412	yes	sce_1966	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-316057.3.peg.3521	Large exoproteins involved in heme utilization or adhesion	SCE1572_4644	yes	sce_3741	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-316057.3.peg.3521	Thiol peroxidase, Bcp-type (EC 1.11.1.15)	SCE1572_6737	yes	sce_5609	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-316057.3.peg.563	Cytochrome c oxidase polypeptide II (EC 1.9.3.1)	SCE1572_6107	yes	sce_5054	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-316057.3.peg.563	Cytochrome c oxidase polypeptide III (EC 1.9.3.1)	SCE1572_6109	yes	sce_5056	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-316057.3.peg.563	Heme O synthase, protoheme IX farnesyltransferase (EC 2.5.1.-) COX	SCE1572_3921	yes	sce_3254	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-316057.3.peg.563	TldD protein, part of proposed TldE/TldD proteolytic complex (PMID	SCE1572_8457	yes	sce_7217	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-323097.3.peg.2594	FIG004453: protein YceG like	SCE1572_5816	yes	sce_4865	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-323097.3.peg.2594	Guanylate kinase (EC 2.7.4.8)	SCE1572_5012	yes	sce_4214	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-323097.3.peg.2594	Protein YicC	SCE1572_5011	yes	sce_4213	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-331978.3.peg.2915	Preprotein translocase subunit SecG (TC 3.A.5.1.1)	SCE1572_2356	yes	sce_1907	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-331978.3.peg.2915	Triosephosphate isomerase (EC 5.3.1.1)	SCE1572_9434	yes	sce_8223	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-335543.6.peg.1659	Cytoplasmic axial filament protein CafA and Ribonuclease G (EC 3.1.4.	SCE1572_9350	yes	sce_8131	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-335543.6.peg.1659	FIG092679: Fe-S oxidoreductase	SCE1572_8554	yes	sce_7294	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-349161.4.peg.2417	DNA primase (EC 2.7.7.-)	SCE1572_6017	yes	sce_4970	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-349161.4.peg.2417	RNA polymerase sigma factor RpoD	SCE1572_379	yes	sce_211	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-349161.4.peg.2427	ATP/GTP-binding protein, SA1392 homolog	SCE1572_7723	yes	sce_6549	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-349161.4.peg.2427	Glycyl-tRNA synthetase alpha chain (EC 6.1.1.14)	SCE1572_707	yes	sce_504	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-349161.4.peg.2427	Glycyl-tRNA synthetase beta chain (EC 6.1.1.14)	SCE1572_9746	yes	sce_8547	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-349161.4.peg.2427	Pyruvate,phosphate dikinase (EC 2.7.9.1)	SCE1572_9634	yes	sce_8446	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-366602.3.peg.5141	Heparinase II/III-like	SCE1572_9413	yes	sce_8196	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-366602.3.peg.5141	IMP cyclohydrolase (EC 3.5.4.10)	SCE1572_4217	yes	sce_3535	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-366602.3.peg.5141	Phosphoribosylaminoimidazolecarboxamide formyltransferase (EC 2.1.	SCE1572_4217	yes	sce_3535	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-436114.3.peg.833	FIG038648: MoaD and/or ThiS families	SCE1572_7585	yes	sce_6441	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-436114.3.peg.833	Threonine synthase (EC 4.2.3.1)	SCE1572_11433	yes	sce_10289	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-521098.4.peg.1460	FIG001614: Membrane protein	SCE1572_8370	yes	sce_7078	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-521098.4.peg.1460	FIG015373: Membrane protein	SCE1572_8371	yes	sce_7079	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-56780.10.peg.1536	Magnesium and cobalt efflux protein CorC	SCE1572_5751	yes	sce_4801	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-56780.10.peg.1536	Membrane protein containing HD superfamily hydrolase domain, YQFI	SCE1572_9731	yes	sce_8533	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-56780.10.peg.1536	Metal-dependent hydrolase YbeY, involved in rRNA and/or ribosome n	SCE1572_28	yes	sce_30	yes
A and B	Clustering-based subsystems	no subcategory	CBSS-56780.10.peg.1536	Phosphate starvation-inducible protein PhoH, predicted ATPase	SCE1572_10090	yes	sce_8907	yes
A and B	Clustering-based subsystems	no subcategory	CTP synthase (EC 6.3.4.2) cluster	CTP synthase (EC 6.3.4.2)	SCE1572_6582	yes	sce_5517	yes
A and B	Clustering-based subsystems	no subcategory	CTP synthase (EC 6.3.4.2) cluster	Inner membrane protein translocase component YidC, long form	SCE1572_3329	yes	sce_2824	yes
A and B	Clustering-based subsystems	no subcategory	Cell division-ribosomal stress proteins cluster	Cell division protein FtsH (EC 3.4.24.-)	SCE1572_669	yes	sce_474	yes
A and B	Clustering-based subsystems	no subcategory	Cell division-ribosomal stress proteins cluster	Hypoxanthine-guanine phosphoribosyltransferase (EC 2.4.2.8)	SCE1572_10500	yes	sce_9148	yes
A and B	Clustering-based subsystems	no subcategory	Cell division-ribosomal stress proteins cluster	Peptidyl-tRNA hydrolase (EC 3.1.1.29)	SCE1572_9000	yes	sce_7765	yes
A and B	Clustering-based subsystems	no subcategory	Cell division-ribosomal stress proteins cluster	SSU ribosomal protein S1p	SCE1572_4258	yes	sce_3559	yes
A and B	Clustering-based subsystems	no subcategory	Cell division-ribosomal stress proteins cluster	Transcription accessory protein (S1 RNA-binding domain)	SCE1572_5755	yes	sce_4806	yes
A and B	Clustering-based subsystems	no subcategory	Cell division-ribosomal stress proteins cluster	Transcription-repair coupling factor	SCE1572_3464	yes	sce_2957	yes
A and B	Clustering-based subsystems	no subcategory	Cell division-ribosomal stress proteins cluster	tRNA(Ile)-lysidine synthetase	SCE1572_9384	yes	sce_8164	yes
A and B	Clustering-based subsystems	no subcategory	ClpAS cluster	ATP-dependent Clp protease ATP-binding subunit ClpA	SCE1572_571	yes	sce_373	yes
A and B	Clustering-based subsystems	no subcategory	ClpAS cluster	ATP-dependent Clp protease adaptor protein ClpS	SCE1572_5907	yes	sce_836	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	50S ribosomal subunit maturation GTPase RbgA (B. subtilis YlqF)	SCE1572_2042	yes	sce_1522	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	DNA topoisomerase I (EC 5.99.1.2)	SCE1572_6867	yes	sce_5730	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Helicase PriA essential for oriC/DnaA-independent DNA replication	SCE1572_9110	yes	sce_7892	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Inactive homolog of metal-dependent proteases, putative molecular chap	SCE1572_2318	yes	sce_1865	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Methionyl-tRNA formyltransferase (EC 2.1.2.9)	SCE1572_6733	yes	sce_5605	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Peptide deformylase (EC 3.5.1.88)	SCE1572_5077	yes	sce_4266	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Protein serine/threonine phosphatase PrpC, regulation of stationary pha	SCE1572_953	yes	sce_716	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Ribosomal RNA large subunit methyltransferase N (EC 2.1.1.-)	SCE1572_2215	yes	sce_1759	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Ribosomal RNA small subunit methyltransferase B (EC 2.1.1.-)	SCE1572_10003	yes	sce_8824	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)	SCE1572_7710	yes	sce_6542	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Ribulose-phosphate 3-epimerase (EC 5.1.3.1)	SCE1572_10509	yes	sce_9159	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Rossmann fold nucleotide-binding protein Smf possibly involved in DNA	SCE1572_6868	yes	sce_5731	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Serine/threonine protein kinase PrkC, regulator of stationary phase	SCE1572_2	yes	sce_2	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Trk system potassium uptake protein TrkA	SCE1572_4368	yes	sce_3654	yes

A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	Uncharacterized protein with LysM domain, COG1652	SCE1572_530	yes	sce_333	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	YgjD/Kae1/Qri7 family, required for N6-threonylcarbamoyl adenosine	SCE1572_2254	yes	sce_1799	yes
A and B	Clustering-based subsystems	no subcategory	Conserved gene cluster associated with Met-tRNA formyltransf	tRNA:m(5)U-54 MTase gid	SCE1572_6866	yes	sce_5729	yes
A and B	Clustering-based subsystems	no subcategory	DNA gyrase subunits	DNA gyrase subunit A (EC 5.99.1.3)	SCE1572_4963	yes	sce_4070	yes
A and B	Clustering-based subsystems	no subcategory	DNA gyrase subunits	DNA gyrase subunit B (EC 5.99.1.3)	SCE1572_10487	yes	sce_9133	yes
A and B	Clustering-based subsystems	no subcategory	DNA replication cluster 1	Chromosomal replication initiator protein DnaA	SCE1572_1	yes	sce_1	yes
A and B	Clustering-based subsystems	no subcategory	DNA replication cluster 1	DNA gyrase subunit B (EC 5.99.1.3)	SCE1572_10487	yes	sce_9133	yes
A and B	Clustering-based subsystems	no subcategory	DNA replication cluster 1	DNA polymerase III beta subunit (EC 2.7.7.7)	SCE1572_10485	yes	sce_9130	yes
A and B	Clustering-based subsystems	no subcategory	DNA replication cluster 1	DNA recombination and repair protein RecF	SCE1572_10486	yes	sce_9131	yes
A and B	Clustering-based subsystems	no subcategory	ECSIG4-SIG7	4-hydroxythreonine-4-phosphate dehydrogenase (EC 1.1.1.262)	SCE1572_8455	yes	sce_7215	yes
A and B	Clustering-based subsystems	no subcategory	ECSIG4-SIG7	Dimethyladenosine transferase (EC 2.1.1.-)	SCE1572_6014	yes	sce_4966	yes
A and B	Clustering-based subsystems	no subcategory	ECSIG4-SIG7	Survival protein SurA precursor (Peptidyl-prolyl cis-trans isomerase Sur	SCE1572_1628	yes	sce_1165	yes
A and B	Clustering-based subsystems	no subcategory	Glycogen metabolism cluster	1,4-alpha-glucan (glycogen) branching enzyme, GH-13-type (EC 2.4.1.	SCE1572_6074	yes	sce_5020	yes
A and B	Clustering-based subsystems	no subcategory	Glycogen metabolism cluster	4-alpha-glucanotransferase (amylomaltase) (EC 2.4.1.25)	SCE1572_586	yes	sce_396	yes
A and B	Clustering-based subsystems	no subcategory	Glycogen metabolism cluster	Glucose-1-phosphate adenylyltransferase (EC 2.7.7.27)	SCE1572_7285	yes	sce_5988	yes
A and B	Clustering-based subsystems	no subcategory	Glycogen metabolism cluster	Glycogen debranching enzyme (EC 3.2.1.-)	SCE1572_1926	yes	sce_1444	yes
A and B	Clustering-based subsystems	no subcategory	Glycogen metabolism cluster	Glycogen phosphorylase (EC 2.4.1.1)	SCE1572_5906	yes	sce_4909	yes
A and B	Clustering-based subsystems	no subcategory	Glycogen metabolism cluster	Glycogen synthase, ADP-glucose transglucosylase (EC 2.4.1.21)	SCE1572_1673	yes	sce_1189	yes
A and B	Clustering-based subsystems	no subcategory	KH domain RNA binding protein YlqC	16S rRNA processing protein RimM	SCE1572_6008	yes	sce_4959	yes
A and B	Clustering-based subsystems	no subcategory	KH domain RNA binding protein YlqC	KH domain RNA binding protein YlqC	SCE1572_6009	yes	sce_4960	yes
A and B	Clustering-based subsystems	no subcategory	KH domain RNA binding protein YlqC	SSU ribosomal protein S16p	SCE1572_6010	yes	sce_4961	yes
A and B	Clustering-based subsystems	no subcategory	LSU ribosomal proteins cluster	LSU ribosomal protein L10p (P0)	SCE1572_657	yes	sce_463	yes
A and B	Clustering-based subsystems	no subcategory	LSU ribosomal proteins cluster	LSU ribosomal protein L11p (L12e)	SCE1572_655	yes	sce_461	yes
A and B	Clustering-based subsystems	no subcategory	LSU ribosomal proteins cluster	LSU ribosomal protein L1p (L10Ae)	SCE1572_656	yes	sce_462	yes
A and B	Clustering-based subsystems	no subcategory	LSU ribosomal proteins cluster	LSU ribosomal protein L7/L12 (P1/P2)	SCE1572_658	yes	sce_464	yes
A and B	Clustering-based subsystems	no subcategory	LSU ribosomal proteins cluster	Preprotein translocase subunit SecE (TC 3.A.5.1.1)	SCE1572_652	yes	sce_459	yes
A and B	Clustering-based subsystems	no subcategory	LSU ribosomal proteins cluster	Transcription antitermination protein NusG	SCE1572_653	yes	sce_460	yes
A and B	Clustering-based subsystems	no subcategory	Lipoic acid synthesis cluster	Lipoate synthase	SCE1572_2203	yes	sce_1750	yes
A and B	Clustering-based subsystems	no subcategory	Lipoic acid synthesis cluster	Octanoate-[acyl-carrier-protein]-protein-N-octanoyltransferase	SCE1572_3366	yes	sce_2855	yes
A and B	Clustering-based subsystems	no subcategory	NusA-TFII Cluster	COG2740: Predicted nucleic-acid-binding protein implicated in transcrip	SCE1572_7634	yes	sce_6494	yes
A and B	Clustering-based subsystems	no subcategory	NusA-TFII Cluster	FIG000325: clustered with transcription termination protein NusA	SCE1572_7636	yes	sce_6496	yes
A and B	Clustering-based subsystems	no subcategory	NusA-TFII Cluster	Ribosome-binding factor A	SCE1572_7630	yes	sce_6491	yes
A and B	Clustering-based subsystems	no subcategory	NusA-TFII Cluster	Transcription termination protein NusA	SCE1572_7635	yes	sce_6495	yes
A and B	Clustering-based subsystems	no subcategory	NusA-TFII Cluster	Translation initiation factor 2	SCE1572_7632	yes	sce_3829	yes
A and B	Clustering-based subsystems	no subcategory	NusA-TFII Cluster	YlxP-like protein	SCE1572_7631	yes	sce_6492	yes
A and B	Clustering-based subsystems	no subcategory	Purine salvage cluster	Exodeoxyribonuclease VII large subunit (EC 3.1.11.6)	SCE1572_3278	yes	sce_2773	yes
A and B	Clustering-based subsystems	no subcategory	Purine salvage cluster	Exodeoxyribonuclease VII small subunit (EC 3.1.11.6)	SCE1572_8519	yes	sce_6045	yes
A and B	Clustering-based subsystems	no subcategory	Purine salvage cluster	GMP synthase [glutamine-hydrolyzing], ATP pyrophosphatase subunit	SCE1572_4911	yes	sce_4121	yes
A and B	Clustering-based subsystems	no subcategory	Purine salvage cluster	GMP synthase [glutamine-hydrolyzing], amidotransferase subunit (EC 6	SCE1572_4911	yes	sce_4121	yes
A and B	Clustering-based subsystems	no subcategory	Purine salvage cluster	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)	SCE1572_110	yes	sce_98	yes
A and B	Clustering-based subsystems	no subcategory	RNA modification cluster	Inner membrane protein translocase component YidC, long form	SCE1572_3329	yes	sce_2824	yes
A and B	Clustering-based subsystems	no subcategory	RNA modification cluster	LSU ribosomal protein L34p	SCE1572_3332	yes	sce_2828	yes
A and B	Clustering-based subsystems	no subcategory	RNA modification cluster	Protein YidD	SCE1572_3330	yes	sce_2826	yes
A and B	Clustering-based subsystems	no subcategory	RNA modification cluster	Ribonuclease P protein component (EC 3.1.26.5)	SCE1572_3331	yes	sce_2827	yes
A and B	Clustering-based subsystems	no subcategory	Sigma-B stress response cluster 1	Anti-sigma B factor RsbT	SCE1572_4836	yes	sce_4048	yes
A and B	Clustering-based subsystems	no subcategory	Sigma-B stress response cluster 1	Anti-sigma B factor antagonist RsbV	SCE1572_1363	yes	sce_989	yes
A and B	Clustering-based subsystems	no subcategory	Sigma-B stress response cluster 1	Phosphoserine phosphatase RsbX (EC 3.1.3.3)	SCE1572_4836	yes	sce_4048	yes
A and B	Clustering-based subsystems	no subcategory	Sigma-B stress response cluster 1	RNA polymerase sigma factor RpoD	SCE1572_379	yes	sce_211	yes
A and B	Clustering-based subsystems	no subcategory	Sigma-B stress response cluster 1	RNA polymerase sigma factor SigB	SCE1572_3441	yes	sce_2933	yes
A and B	Clustering-based subsystems	no subcategory	Sigma-B stress response cluster 1	RsbR, positive regulator of sigma-B	SCE1572_203	yes	sce_202	yes
A and B	Clustering-based subsystems	no subcategory	Sigma-B stress response cluster 1	RsbS, negative regulator of sigma-B	SCE1572_4838	yes	sce_4050	yes
A and B	Clustering-based subsystems	no subcategory	Sigma-B stress response cluster 1	Serine phosphatase RsbU, regulator of sigma subunit	SCE1572_1359	yes	sce_985	yes
A and B	Clustering-based subsystems	no subcategory	Sigma-B stress response cluster 1	Serine-protein kinase RsbW (EC 2.7.11.1)	SCE1572_1364	yes	sce_990	yes
A and B	Clustering-based subsystems	no subcategory	Stress related cluster	Arsenical pump-driving ATPase (EC 3.6.3.16)	SCE1572_1021	yes	sce_6662	yes
A and B	Clustering-based subsystems	no subcategory	Stress related cluster	Carbon starvation protein A	SCE1572_8282	yes	sce_6951	yes
A and B	Clustering-based subsystems	no subcategory	Transcription repair cluster	Arsenate reductase (EC 1.20.4.1)	SCE1572_1030	yes	sce_6285	yes
A and B	Clustering-based subsystems	no subcategory	Transcription repair cluster	Glucosamine-1-phosphate N-acetyltransferase (EC 2.3.1.157)	SCE1572_7188	yes	sce_5909	yes
A and B	Clustering-based subsystems	no subcategory	Transcription repair cluster	LSU ribosomal protein L25p	SCE1572_8999	yes	sce_7764	yes
A and B	Clustering-based subsystems	no subcategory	Transcription repair cluster	N-acetylglucosamine-1-phosphate uridyltransferase (EC 2.7.7.23)	SCE1572_7188	yes	sce_5909	yes
A and B	Clustering-based subsystems	no subcategory	Transcription repair cluster	Peptidyl-tRNA hydrolase (EC 3.1.1.29)	SCE1572_9000	yes	sce_7765	yes
A and B	Clustering-based subsystems	no subcategory	Transcription repair cluster	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1)	SCE1572_8154	yes	sce_7319	yes
A and B	Clustering-based subsystems	no subcategory	Transcription repair cluster	Short-chain dehydrogenase/reductase SDR	SCE1572_2326	yes	sce_1873	yes
A and B	Clustering-based subsystems	no subcategory	Transcription repair cluster	Transcription-repair coupling factor	SCE1572_3464	yes	sce_2957	yes
A and B	Clustering-based subsystems	no subcategory	USS-DB-7	ClpB protein	SCE1572_6714	yes	sce_5586	yes
A and B	Clustering-based subsystems	no subcategory	USS-DB-7	Protein ImpG/VasA	SCE1572_6723	yes	sce_5595	yes
A and B	Clustering-based subsystems	no subcategory	USS-DB-7	Uncharacterized protein ImpA	SCE1572_6708	yes	sce_5580	yes
A and B	Clustering-based subsystems	no subcategory	USS-DB-7	Uncharacterized protein ImpB	SCE1572_6706	yes	sce_638	yes
A and B	Clustering-based subsystems	no subcategory	USS-DB-7	Uncharacterized protein ImpC	SCE1572_1876	yes	sce_1392	yes
A and B	Clustering-based subsystems	no subcategory	USS-DB-7	Uncharacterized protein ImpH/VasB	SCE1572_6724	yes	sce_5596	yes
A and B	Clustering-based subsystems	no subcategory	USS-DB-7	Uncharacterized protein ImpI/VasC	SCE1572_6716	yes	sce_5588	yes
A and B	Clustering-based subsystems	no subcategory	USS-DB-7	Uncharacterized protein ImpJ/VasE	SCE1572_6712	yes	sce_5584	yes
A and B	Clustering-based subsystems	no subcategory	USS-DB-7	Uncharacterized protein similar to VCA0109	SCE1572_6722	yes	sce_5594	yes
A and B	Clustering-based subsystems	no subcategory	USS-DB-7	VgrG protein	SCE1572_53	yes	sce_117	yes
A and B	Clustering-based subsystems	no subcategory	tRNA-methylthiotransferase containing cluster	Apolipoprotein N-acyltransferase (EC 2.3.1.-)	SCE1572_26	yes	sce_28	yes
A and B	Clustering-based subsystems	no subcategory	tRNA-methylthiotransferase containing cluster	Copper homeostasis protein CutE	SCE1572_26	yes	sce_28	yes
A and B	Clustering-based subsystems	no subcategory	tRNA-methylthiotransferase containing cluster	Magnesium and cobalt efflux protein CorC	SCE1572_5751	yes	sce_4801	yes
A and B	Clustering-based subsystems	no subcategory	tRNA-methylthiotransferase containing cluster	Metal-dependent hydrolase YbeY, involved in rRNA and/or ribosome m	SCE1572_28	yes	sce_30	yes
A and B	Clustering-based subsystems	no subcategory	tRNA-methylthiotransferase containing cluster	Phosphate starvation-inducible protein PhoH, predicted ATPase	SCE1572_10090	yes	sce_8907	yes
A and B	Clustering-based subsystems	no subcategory	tRNA-methylthiotransferase containing cluster	tRNA-i(6)A37 methylthiotransferase	SCE1572_7173	yes	sce_5902	yes
A	Clustering-based subsystems	no subcategory	CBSS-176299.4.peg.1996A	Bis(5'-nucleosyl)-tetraphosphatase (asymmetrical) (EC 3.6.1.17)	SCE1572_11295	yes		no
A	Clustering-based subsystems	no subcategory	CBSS-36873.1.peg.4752	Cd(II)/Pb(II)-responsive transcriptional regulator	SCE1572_9416	yes		no
A	Clustering-based subsystems	no subcategory	CBSS-393124.3.peg.2657	ADA regulatory protein	SCE1572_9552	yes		no
A	Clustering-based subsystems	no subcategory	CBSS-393124.3.peg.2657	Probable carboxyvinyl-carboxyphosphonate phosphorylmutase (EC 2.7	SCE1572_1901	yes		no
B	Clustering-based subsystems	no subcategory	CBSS-159087.4.peg.2189	FIG014574: hypothetical protein		no	sce_6822	yes
B	Clustering-based subsystems	no subcategory	CBSS-159087.4.peg.2189	Phage T7 exclusion protein		no	sce_6820	yes
B	Clustering-based subsystems	no subcategory	CBSS-159087.4.peg.2189	Phage T7 exclusion protein associated hypothetical protein		no	sce_6821	yes
B	Clustering-based subsystems	no subcategory	CBSS-159087.4.peg.2189	Putative deoxyribonuclease similar to YcfH, type 4		no	sce_6823	yes
B	Clustering-based subsystems	no subcategory	CBSS-235909.3.peg.1769	FIG087842: Hypothetical protein		no	sce_2362	yes
B	Clustering-based subsystems	no subcategory	CBSS-235909.3.peg.1769	FIG098404: Hypothetical protein		no	sce_2363	yes
B	Clustering-based subsystems	no subcategory	CBSS-235909.3.peg.1769	FIG100068: Hypothetical protein		no	sce_2361	yes
B	Clustering-based subsystems	no subcategory	CBSS-235909.3.peg.1769	FIG124585: Hypothetical protein		no	sce_2360	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis	3-ketoacyl-CoA thiolase (EC 2.3.1.16)	SCE1572_61	yes	sce_51	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis	8-amino-7-oxononanoate synthase (EC 2.3.1.47)	SCE1572_3903	yes	sce_3232	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase (EC 2.	SCE1572_1046	yes	sce_782	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis	Biotin operon repressor	SCE1572_3403	yes	sce_2890	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis	Biotin synthesis protein bioC	SCE1572_6412	yes	sce_5430	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis	Biotin-protein ligase (EC 6.3.4.15)	SCE1572_3403	yes	sce_2890	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis	Dethiobiotin synthetase (EC 6.3.3.3)	SCE1572_10482	yes	sce_9127	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	SCE1572_267	yes	sce_389	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis Experimental	8-amino-7-oxononanoate synthase (EC 2.3.1.47)	SCE1572_3903	yes	sce_3232	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis Experimental	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase (EC 2.	SCE1572_1046	yes	sce_782	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis Experimental	Biotin synthesis protein bioC	SCE1572_6412	yes	sce_5430	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis Experimental	Competence protein F homolog, phosphoribosyltransferase domain	SCE1572_9377	yes	sce_8158	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Biotin	Biotin biosynthesis Experimental	Dethiobiotin synthetase (EC 6.3.3.3)	SCE1572_10482	yes	sce_9127	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	2-dehydropantoate 2-reductase (EC 1.1.1.169)	SCE1572_308	yes	sce_2028	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	3-methyl-2-oxobutanoate hydroxymethyltransferase (EC 2.1.2.11)	SCE1572_666	yes	sce_471	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	Aspartate 1-decarboxylase (EC 4.1.1.11)	SCE1572_1532	yes	sce_1053	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	Dephospho-CoA kinase (EC 2.7.1.24)	SCE1572_4942	yes	sce_4156	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	FIG173306: hypothetical protein	SCE1572_3257	yes	sce_2753	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	Ketol-acid reductoisomerase (EC 1.1.1.86)	SCE1572_4975	yes	sce_4184	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	Pantoate--beta-alanine ligase (EC 6.3.2.1)	SCE1572_1303	yes	sce_938	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	Pantothenate kinase type III, CoaX-like (EC 2.7.1.33)	SCE1572_523	yes	sce_326	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	Pantothenate:Na symporter (TC 2.A.21.1.1)	SCE1572_3579	yes	sce_6216	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	Phosphopantetheine adenylyltransferase (EC 2.7.7.3)	SCE1572_2357	yes	sce_1908	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	Phosphopantothenoylcysteine decarboxylase (EC 4.1.1.36)	SCE1572_9486	yes	sce_8273	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	Phosphopantothenoylcysteine synthetase (EC 6.3.2.5)	SCE1572_9486	yes	sce_8273	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis cluster	3-methyl-2-oxobutanoate hydroxymethyltransferase (EC 2.1.2.11)	SCE1572_666	yes	sce_471	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis cluster	Aspartate 1-decarboxylase (EC 4.1.1.11)	SCE1572_1532	yes	sce_1053	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis cluster	FIG173306: hypothetical protein	SCE1572_3257	yes	sce_2753	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis cluster	Pantoate--beta-alanine ligase (EC 6.3.2.1)	SCE1572_1303	yes	sce_938	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis cluster	Pantothenate kinase type III, CoaX-like (EC 2.7.1.33)	SCE1572_523	yes	sce_326	yes
B	Cofactors, Vitamins, Prosthetic Grou	Coenzyme A	Coenzyme A Biosynthesis	Pantothenate kinase (EC 2.7.1.33)		no	sce_5774	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Fe-S clusters	Fe-S cluster assembly	Chaperone protein HscA	SCE1572_9421	yes	sce_8208	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Fe-S clusters	Fe-S cluster assembly	Chaperone protein HscB	SCE1572_9420	yes	sce_8207	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Fe-S clusters	Fe-S cluster assembly	Cysteine desulfurase (EC 2.8.1.7)	SCE1572_1872	yes	sce_1345	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Fe-S clusters	Fe-S cluster assembly	Cysteine desulfurase (EC 2.8.1.7), IscS subfamily	SCE1572_9417	yes	sce_8204	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Fe-S clusters	Fe-S cluster assembly	Cysteine desulfurase (EC 2.8.1.7), SufS subfamily	SCE1572_10250	yes	sce_5192	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Fe-S clusters	Fe-S cluster assembly	Ferredoxin, 2Fe-2S	SCE1572_9111	yes	sce_7893	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Fe-S clusters	Fe-S cluster assembly	Iron binding protein IscA for iron-sulfur cluster assembly	SCE1572_9419	yes	sce_8206	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Fe-S clusters	Fe-S cluster assembly	Iron-sulfur cluster assembly scaffold protein IscU	SCE1572_9418	yes	sce_8205	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Fe-S clusters	Fe-S cluster assembly	Iron-sulfur cluster regulator IscR	SCE1572_7588	yes	sce_6444	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Fe-S clusters	Fe-S cluster assembly	probable iron binding protein from the HesB_IscA_SufA family	SCE1572_7745	yes	sce_6569	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	5,10-methylenetetrahydrofolate reductase (EC 1.5.1.20)	SCE1572_7802	yes	sce_6607	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	5-formyltetrahydrofolate cyclo-ligase (EC 6.3.3.2)	SCE1572_9050	yes	sce_7810	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Alcohol dehydrogenase (EC 1.1.1.1)	SCE1572_443	yes	sce_1248	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	SCE1572_1711	yes	sce_1225	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Dihydrofolate reductase (EC 1.5.1.3)	SCE1572_262	yes	sce_1517	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogen	SCE1572_2006	yes	sce_1142	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Formyltetrahydrofolate deformylase (EC 3.5.1.10)	SCE1572_754	yes	sce_556	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Isocitrate dehydrogenase [NADP] (EC 1.1.1.42)	SCE1572_1627	yes	sce_7633	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Methylenetetrahydrofolate dehydrogenase (NADP) (EC 1.5.1.5)	SCE1572_4947	yes	sce_4161	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Phosphomethylpyrimidine kinase (EC 2.7.4.7)	SCE1572_978	yes	sce_737	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Phosphoribosylaminoimidazolecarboxamide formyltransferase (EC 2.1.	SCE1572_4217	yes	sce_3535	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Phosphoribosylglycinamide formyltransferase (EC 2.1.2.2)	SCE1572_10890	yes	sce_9522	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Serine hydroxymethyltransferase (EC 2.1.2.1)	SCE1572_8655	yes	sce_7370	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Succinate dehydrogenase iron-sulfur protein (EC 1.3.99.1)	SCE1572_8616	yes	sce_7336	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Thiamin-phosphate pyrophosphorylase (EC 2.5.1.3)	SCE1572_2436	yes	sce_1990	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	5-FCL-like protein	Thiamine-monophosphate kinase (EC 2.7.4.16)	SCE1572_628	yes	sce_436	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokina	SCE1572_9665	yes	sce_8473	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	5-formyltetrahydrofolate cyclo-ligase (EC 6.3.3.2)	SCE1572_9050	yes	sce_7810	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	Dihydrofolate reductase (EC 1.5.1.3)	SCE1572_262	yes	sce_1517	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	Dihydrofolate synthase (EC 6.3.2.12)	SCE1572_7620	yes	sce_6480	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	Dihydroneopterin aldolase (EC 4.1.2.25)	SCE1572_9262	yes	sce_8041	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	Dihydropteroate synthase (EC 2.5.1.15)	SCE1572_9730	yes	sce_8532	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	FolM Alternative dihydrofolate reductase 1	SCE1572_10968	yes	sce_9682	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	Folylpolyglutamate synthase (EC 6.3.2.17)	SCE1572_7620	yes	sce_6480	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	GTP cyclohydrolase I (EC 3.5.4.16) type 1	SCE1572_11540	yes	sce_10389	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	Para-aminobenzoate synthase, aminase component (EC 2.6.1.85)	SCE1572_265	yes	sce_697	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Folate Biosynthesis	Thymidylate synthase thyX (EC 2.1.1.-)	SCE1572_1679	yes	sce_1194	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	GTP cyclohydrolase I (EC 3.5.4.16) type 1	SCE1572_11540	yes	sce_10389	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	GTP cyclohydrolase II (EC 3.5.4.25)	SCE1572_2917	yes	sce_2550	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdenum ABC transporter, periplasmic molybdenum-binding protei	SCE1572_1808	yes	sce_1268	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdenum cofactor biosynthesis protein MoaA	SCE1572_479	yes	sce_290	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdenum cofactor biosynthesis protein MoaB	SCE1572_3198	yes	sce_2690	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdenum cofactor biosynthesis protein MoaC	SCE1572_3974	yes	sce_3303	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdenum cofactor biosynthesis protein MoaD	SCE1572_3972	yes	sce_3301	yes

A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdenum cofactor biosynthesis protein MoaE	SCE1572_3975	yes	sce_3304	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdenum transport ATP-binding protein ModC (TC 3.A.1.8.1)	SCE1572_1788	yes	sce_1266	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdenum transport system permease protein ModB (TC 3.A.1.8.1)	SCE1572_1807	yes	sce_1267	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdopterin biosynthesis protein MoeA	SCE1572_3197	yes	sce_2689	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdopterin biosynthesis protein MoeB	SCE1572_7937	yes	sce_6735	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Molybdenum cofactor biosynthesis	Molybdopterin-guanine dinucleotide biosynthesis protein MobA	SCE1572_11578	yes	sce_10415	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Pterin carbinolamine dehydratase	4-hydroxyphenylpyruvate dioxygenase (EC 1.13.11.27)	SCE1572_4318	yes	sce_5475	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Pterin carbinolamine dehydratase	Fumarylacetoacetase (EC 3.7.1.2)	SCE1572_7163	yes	sce_5897	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Pterin carbinolamine dehydratase	Fumarylacetoacetate hydrolase family protein	SCE1572_3892	yes	sce_3221	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Pterin carbinolamine dehydratase	Homogentisate 1,2-dioxygenase (EC 1.13.11.5)	SCE1572_4319	yes	sce_5474	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Pterin carbinolamine dehydratase	Maleylacetoacetate isomerase (EC 5.2.1.2)	SCE1572_7883	yes	sce_6399	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Folate and pterines	Pterin carbinolamine dehydratase	Pterin-4-alpha-carbinolamine dehydratase (EC 4.2.1.96)	SCE1572_2342	yes	sce_1891	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Lipoic acid	Lipoic Acid explorationVDC	Biotin-protein ligase (EC 6.3.4.15)	SCE1572_3403	yes	sce_2890	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Lipoic acid	Lipoic Acid explorationVDC	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogen	SCE1572_2006	yes	sce_1142	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Lipoic acid	Lipoic Acid explorationVDC	Dihydrolipoamide acyltransferase component of branched-chain alpha-l	SCE1572_2199	yes	sce_1746	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Lipoic acid	Lipoic Acid explorationVDC	Dihydrolipoamide succinyltransferase component (E2) of 2-oxoglutarat	SCE1572_828	yes	sce_1318	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Lipoic acid	Lipoic Acid explorationVDC	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P2	SCE1572_8088	yes	sce_10237	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Lipoic acid	Lipoic Acid explorationVDC	Lipoate synthase	SCE1572_2203	yes	sce_1750	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Lipoic acid	Lipoic Acid explorationVDC	Octanoate-[acyl-carrier-protein]-protein-N-octanoyltransferase	SCE1572_3366	yes	sce_2855	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Lipoic acid	Lipoic acid metabolism	Lipoate synthase	SCE1572_2203	yes	sce_1750	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Lipoic acid	Lipoic acid metabolism	Octanoate-[acyl-carrier-protein]-protein-N-octanoyltransferase	SCE1572_3366	yes	sce_2855	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	ADP-ribose pyrophosphatase (EC 3.6.1.13)	SCE1572_3103	yes	sce_2621	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	C-terminal domain of CinA type S	SCE1572_10489	yes	sce_9136	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Glutamine amidotransferase chain of NAD synthetase	SCE1572_11271	yes	sce_10054	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Isochorismatase (EC 3.3.2.1) of siderophore biosynthesis	SCE1572_5181	yes	sce_4342	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Kynurenine formamidase, bacterial (EC 3.5.1.9)	SCE1572_4334	yes	sce_1451	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	L-aspartate oxidase (EC 1.4.3.16)	SCE1572_957	yes	sce_719	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	NAD kinase (EC 2.7.1.23)	SCE1572_10648	yes	sce_9253	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	NAD synthetase (EC 6.3.1.5)	SCE1572_5091	yes	sce_4279	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Nicotinamidase (EC 3.5.1.19)	SCE1572_3109	yes	sce_2625	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Nicotinamidase/isochorismatase family protein	SCE1572_5979	yes	sce_3786	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Nicotinate phosphoribosyltransferase (EC 2.4.2.11)	SCE1572_4945	yes	sce_4159	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Nudix-related transcriptional regulator NrtR	SCE1572_3115	yes	sce_2628	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Quinolinate phosphoribosyltransferase [decarboxylating] (EC 2.4.2.19)	SCE1572_3402	yes	sce_2889	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Quinolinate synthetase (EC 2.5.1.72)	SCE1572_9526	yes	sce_8310	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Tryptophan 2,3-dioxygenase (EC 1.13.11.11)	SCE1572_10736	yes	sce_9394	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	ADP-ribose pyrophosphatase (EC 3.6.1.13)	SCE1572_3103	yes	sce_2621	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	C-terminal domain of CinA type S	SCE1572_10489	yes	sce_9136	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	DNA ligase (EC 6.5.1.2)	SCE1572_6029	yes	sce_4982	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Glutamine amidotransferase chain of NAD synthetase	SCE1572_11271	yes	sce_10054	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Iojap protein	SCE1572_4907	yes	sce_4117	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Isochorismatase (EC 3.3.2.1) of siderophore biosynthesis	SCE1572_5181	yes	sce_4342	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Kynurenine formamidase, bacterial (EC 3.5.1.9)	SCE1572_4334	yes	sce_1451	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	L-aspartate oxidase (EC 1.4.3.16)	SCE1572_957	yes	sce_719	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	NAD kinase (EC 2.7.1.23)	SCE1572_10648	yes	sce_9253	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	NAD synthetase (EC 6.3.1.5)	SCE1572_5091	yes	sce_4279	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	NAD-dependent protein deacetylase of SIR2 family	SCE1572_901	yes	sce_672	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Nicotinamidase (EC 3.5.1.19)	SCE1572_3109	yes	sce_2625	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Nicotinamidase/isochorismatase family protein	SCE1572_5979	yes	sce_3786	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Nicotinate phosphoribosyltransferase (EC 2.4.2.11)	SCE1572_4945	yes	sce_4159	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Nudix-related transcriptional regulator NrtR	SCE1572_3115	yes	sce_2628	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Quinolinate phosphoribosyltransferase [decarboxylating] (EC 2.4.2.19)	SCE1572_3402	yes	sce_2889	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Quinolinate synthetase (EC 2.5.1.72)	SCE1572_9526	yes	sce_8310	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Soluble pyridine nucleotide transhydrogenase (EC 1.6.1.1)	SCE1572_2691	yes	sce_2231	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD experimental	Tryptophan 2,3-dioxygenase (EC 1.13.11.11)	SCE1572_10736	yes	sce_9394	yes
B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Kynureninase (EC 3.7.1.3)		no	sce_2121	yes
B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Niacin transporter NiaP		no	sce_1359	yes
B	Cofactors, Vitamins, Prosthetic Grou	NAD and NADP	NAD and NADP cofactor biosynthesis global	Nicotinamidase family protein YcaC		no	sce_9327	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Pyridoxine	Pyridoxin (Vitamin B6) Biosynthesis	4-hydroxythreonine-4-phosphate dehydrogenase (EC 1.1.1.262)	SCE1572_8455	yes	sce_7215	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Pyridoxine	Pyridoxin (Vitamin B6) Biosynthesis	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)	SCE1572_1389	yes	sce_1692	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Pyridoxine	Pyridoxin (Vitamin B6) Biosynthesis	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1	SCE1572_6421	yes	sce_8225	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Pyridoxine	Pyridoxin (Vitamin B6) Biosynthesis	Phosphoserine aminotransferase (EC 2.6.1.52)	SCE1572_5915	yes	sce_4919	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Pyridoxine	Pyridoxin (Vitamin B6) Biosynthesis	Pyridoxamine 5'-phosphate oxidase (EC 1.4.3.5)	SCE1572_6835	yes	sce_5696	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Pyridoxine	Pyridoxin (Vitamin B6) Biosynthesis	Pyridoxine 5'-phosphate synthase (EC 2.6.99.2)	SCE1572_7703	yes	sce_6536	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Quinone cofactors	Menaquinone and Phylloquinone Biosynthesis - gjo	1,4-dihydroxy-2-naphthoate octaprenyltransferase (EC 2.5.1.74)	SCE1572_104	yes	sce_90	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Quinone cofactors	Menaquinone and Phylloquinone Biosynthesis - gjo	2-heptaprenyl-1,4-naphthoquinone methyltransferase (EC 2.1.1.163)	SCE1572_4054	yes	sce_3380	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Quinone cofactors	Menaquinone and Phylloquinone Biosynthesis - gjo	2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylic-acid s	SCE1572_4055	yes	sce_3381	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Quinone cofactors	Menaquinone and Phylloquinone Biosynthesis - gjo	Naphthoate synthase (EC 4.1.3.36)	SCE1572_7224	yes	sce_5950	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Quinone cofactors	Menaquinone and Phylloquinone Biosynthesis - gjo	O-succinylbenzoate synthase (EC 4.2.1.113)	SCE1572_4058	yes	sce_3383	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Quinone cofactors	Menaquinone and Phylloquinone Biosynthesis - gjo	O-succinylbenzoic acid--CoA ligase (EC 6.2.1.26)	SCE1572_4059	yes	sce_3384	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Flavodoxin	Flavodoxin	SCE1572_6217	yes	sce_9321	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism	3,4-dihydroxy-2-butanone 4-phosphate synthase (EC 4.1.99.12)	SCE1572_2917	yes	sce_2550	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism	5-amino-6-(5-phosphoribosylamino)uracil reductase (EC 1.1.1.193)	SCE1572_403	yes	sce_4267	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism	6,7-dimethyl-8-ribityllumazine synthase (EC 2.5.1.78)	SCE1572_9354	yes	sce_8135	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism	Diaminohydroxyphosphoribosylaminopyrimidine deaminase (EC 3.5.4.:	SCE1572_403	yes	sce_4267	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism	FMN adenylyltransferase (EC 2.7.7.2)	SCE1572_8997	yes	sce_7762	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism	GTP cyclohydrolase II (EC 3.5.4.25)	SCE1572_2917	yes	sce_2550	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism	Riboflavin kinase (EC 2.7.1.26)	SCE1572_8997	yes	sce_7762	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism	Riboflavin synthase eubacterial/eukaryotic (EC 2.5.1.9)	SCE1572_9352	yes	sce_8133	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	3,4-dihydroxy-2-butanone 4-phosphate synthase (EC 4.1.99.12)	SCE1572_2917	yes	sce_2550	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	5-amino-6-(5-phosphoribosylamino)uracil reductase (EC 1.1.1.193)	SCE1572_403	yes	sce_4267	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	6,7-dimethyl-8-ribityllumazine synthase (EC 2.5.1.78)	SCE1572_9354	yes	sce_8135	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	C-terminal domain of CinA type S	SCE1572_10489	yes	sce_9136	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	Diaminohydroxyphosphoribosylaminopyrimidine deaminase (EC 3.5.4.:	SCE1572_403	yes	sce_4267	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	FIG000859: hypothetical protein YebC	SCE1572_9484	yes	sce_8271	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	FMN adenylyltransferase (EC 2.7.7.2)	SCE1572_8997	yes	sce_7762	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	GTP cyclohydrolase II (EC 3.5.4.25)	SCE1572_2917	yes	sce_2550	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	Molybdopterin binding motif, CinA N-terminal domain	SCE1572_8518	yes	sce_7264	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	Multi antimicrobial extrusion protein (Na()/drug antiporter), MATE fam	SCE1572_6146	yes	sce_4593	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	Riboflavin kinase (EC 2.7.1.26)	SCE1572_8997	yes	sce_7762	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	Riboflavin synthase eubacterial/eukaryotic (EC 2.5.1.9)	SCE1572_9352	yes	sce_8133	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase (EC 2.	SCE1572_9389	yes	sce_8169	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Riboflavin, FMN and FAD metabolism in plants	tRNA pseudouridine synthase B (EC 4.2.1.70)	SCE1572_5750	yes	sce_4800	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	riboflavin to FAD	3,4-dihydroxy-2-butanone 4-phosphate synthase (EC 4.1.99.12)	SCE1572_2917	yes	sce_2550	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	riboflavin to FAD	FMN adenylyltransferase (EC 2.7.7.2)	SCE1572_8997	yes	sce_7762	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	riboflavin to FAD	Riboflavin kinase (EC 2.7.1.26)	SCE1572_8997	yes	sce_7762	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	riboflavin to FAD	Riboflavin synthase eubacterial/eukaryotic (EC 2.5.1.9)	SCE1572_9352	yes	sce_8133	yes
A	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Flavodoxin	Flavodoxin 2	SCE1572_187	yes		no
A	Cofactors, Vitamins, Prosthetic Grou	Riboflavin, FMN, FAD	Flavodoxin	NAD(P)H oxidoreductase YRKL (EC 1.6.99.-)	SCE1572_187	yes		no
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	5,6-dimethylbenzimidazole synthase, flavin destructase family	SCE1572_7257	yes	sce_5537	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	ATPase component CbiO of energizing module of cobalt ECF transport	SCE1572_459	yes	sce_271	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Adenosylcobinamide-phosphate guanylyltransferase (EC 2.7.7.62)	SCE1572_421	yes	sce_235	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Adenosylcobinamide-phosphate synthase	SCE1572_420	yes	sce_234	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Alpha-ribazole-5'-phosphate phosphatase (EC 3.1.3.73)	SCE1572_8977	yes	sce_7736	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cob(I)alamin adenosyltransferase (EC 2.5.1.17)	SCE1572_423	yes	sce_237	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobalamin biosynthesis protein CbiG	SCE1572_446	yes	sce_259	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobalamin synthase	SCE1572_8976	yes	sce_7735	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobalt-precorrin-2 C20-methyltransferase (EC 2.1.1.130)	SCE1572_447	yes	sce_260	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobalt-precorrin-3b C17-methyltransferase	SCE1572_444	yes	sce_257	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobalt-precorrin-4 C11-methyltransferase (EC 2.1.1.133)	SCE1572_424	yes	sce_238	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobalt-precorrin-6 synthase, anaerobic	SCE1572_450	yes	sce_263	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobalt-precorrin-6y C15-methyltransferase [decarboxylating] (EC 2.1.1	SCE1572_448	yes	sce_261	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobalt-precorrin-6y C5-methyltransferase (EC 2.1.1.-)	SCE1572_448	yes	sce_261	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobalt-precorrin-8x methylmutase (EC 5.4.1.2)	SCE1572_449	yes	sce_262	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobyric acid synthase	SCE1572_419	yes	sce_233	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cobyrinic acid A,C-diamide synthase	SCE1572_422	yes	sce_236	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferas	SCE1572_8975	yes	sce_5537	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Outer membrane vitamin B12 receptor BtuB	SCE1572_1273	yes	sce_1552	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Putative 2Fe-2S ferredoxin CbiW involved in B12 biosynthesis	SCE1572_458	yes	sce_270	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Sirohydrochlorin cobaltochelatase (EC 4.99.1.3)	SCE1572_458	yes	sce_270	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Substrate-specific component CbiM of cobalt ECF transporter	SCE1572_462	yes	sce_274	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Uroporphyrinogen-III methyltransferase (EC 2.1.1.107)	SCE1572_14	yes	sce_14	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Vitamin B12 ABC transporter, ATPase component BtuD	SCE1572_9660	yes	sce_8467	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Vitamin B12 ABC transporter, B12-binding component BtuF	SCE1572_9113	yes	sce_7895	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Vitamin B12 ABC transporter, permease component BtuC	SCE1572_524	yes	sce_327	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Adenosylcobinamide-phosphate guanylyltransferase (EC 2.7.7.62)	SCE1572_421	yes	sce_235	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Adenosylcobinamide-phosphate synthase	SCE1572_420	yes	sce_234	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Alpha-ribazole-5'-phosphate phosphatase (EC 3.1.3.73)	SCE1572_8977	yes	sce_7736	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cob(I)alamin adenosyltransferase (EC 2.5.1.17)	SCE1572_423	yes	sce_237	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cobalamin biosynthesis protein BluB	SCE1572_7257	yes	sce_5537	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cobalamin biosynthesis protein CbiG	SCE1572_446	yes	sce_259	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cobalamin synthase	SCE1572_8976	yes	sce_7735	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cobalt-precorrin-2 C20-methyltransferase (EC 2.1.1.130)	SCE1572_447	yes	sce_260	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cobalt-precorrin-3b C17-methyltransferase	SCE1572_444	yes	sce_257	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cobalt-precorrin-4 C11-methyltransferase (EC 2.1.1.133)	SCE1572_424	yes	sce_238	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cobalt-precorrin-6 synthase, anaerobic	SCE1572_450	yes	sce_263	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cobalt-precorrin-8x methylmutase (EC 5.4.1.2)	SCE1572_449	yes	sce_262	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cobyric acid synthase	SCE1572_419	yes	sce_233	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Cobyrinic acid A,C-diamide synthase	SCE1572_422	yes	sce_236	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Cobalamin synthesis	Nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferas	SCE1572_8975	yes	sce_5537	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	5,6-dimethylbenzimidazole synthase, flavin destructase family	SCE1572_7257	yes	sce_5537	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	ATPase component CbiO of energizing module of cobalt ECF transport	SCE1572_459	yes	sce_271	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Adenosylcobinamide-phosphate guanylyltransferase (EC 2.7.7.62)	SCE1572_421	yes	sce_235	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Adenosylcobinamide-phosphate synthase	SCE1572_420	yes	sce_234	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Alpha-ribazole-5'-phosphate phosphatase (EC 3.1.3.73)	SCE1572_8977	yes	sce_7736	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cob(I)alamin adenosyltransferase (EC 2.5.1.17)	SCE1572_423	yes	sce_237	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobalamin biosynthesis protein CbiG	SCE1572_446	yes	sce_259	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobalamin synthase	SCE1572_8976	yes	sce_7735	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobalt-precorrin-2 C20-methyltransferase (EC 2.1.1.130)	SCE1572_447	yes	sce_260	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobalt-precorrin-3b C17-methyltransferase	SCE1572_444	yes	sce_257	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobalt-precorrin-4 C11-methyltransferase (EC 2.1.1.133)	SCE1572_424	yes	sce_238	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobalt-precorrin-6 synthase, anaerobic	SCE1572_450	yes	sce_263	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobalt-precorrin-6y C15-methyltransferase [decarboxylating] (EC 2.1.1	SCE1572_448	yes	sce_261	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobalt-precorrin-6y C5-methyltransferase (EC 2.1.1.-)	SCE1572_448	yes	sce_261	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobalt-precorrin-8x methylmutase (EC 5.4.1.2)	SCE1572_449	yes	sce_262	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobyric acid synthase	SCE1572_419	yes	sce_233	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Cobyrinic acid A,C-diamide synthase	SCE1572_422	yes	sce_236	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferas	SCE1572_8975	yes	sce_5537	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Outer membrane vitamin B12 receptor BtuB	SCE1572_1273	yes	sce_1552	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Putative 2Fe-2S ferredoxin CbiW involved in B12 biosynthesis	SCE1572_458	yes	sce_270	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Sirohydrochlorin cobaltochelatase (EC 4.99.1.3)	SCE1572_458	yes	sce_270	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Substrate-specific component CbiM of cobalt ECF transporter	SCE1572_462	yes	sce_274	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Uroporphyrinogen-III methyltransferase (EC 2.1.1.107)	SCE1572_14	yes	sce_14	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Vitamin B12 ABC transporter, ATPase component BtuD	SCE1572_9660	yes	sce_8467	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Vitamin B12 ABC transporter, B12-binding component BtuF	SCE1572_9113	yes	sce_7895	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Coenzyme B12 biosynthesis	Vitamin B12 ABC transporter, permease component BtuC	SCE1572_524	yes	sce_327	yes

A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Ferrochelatase, protoheme ferro-lyase (EC 4.99.1.1)	SCE1572_2325	yes	sce_1872	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Glutamate-1-semialdehyde aminotransferase (EC 5.4.3.8)	SCE1572_11399	yes	sce_4351	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Glutamyl-tRNA reductase (EC 1.2.1.70)	SCE1572_2266	yes	sce_1810	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Glutamyl-tRNA synthetase (EC 6.1.1.17)	SCE1572_871	yes	sce_646	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Hypothetical radical SAM family enzyme, NOT coproporphyrinogen II	SCE1572_5115	yes	sce_4303	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Porphobilinogen deaminase (EC 2.5.1.61)	SCE1572_2267	yes	sce_1811	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Porphobilinogen synthase (EC 4.2.1.24)	SCE1572_16	yes	sce_16	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Protoporphyrinogen IX oxidase, aerobic, HemY (EC 1.3.3.4)	SCE1572_7477	yes	sce_6273	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Uroporphyrinogen III decarboxylase (EC 4.1.1.37)	SCE1572_10274	yes	sce_9639	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Uroporphyrinogen-III methyltransferase (EC 2.1.1.107)	SCE1572_14	yes	sce_14	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Uroporphyrinogen-III synthase (EC 4.2.1.75)	SCE1572_14	yes	sce_14	yes
A	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	CobN component of cobalt chelatase involved in B12 biosynthesis	SCE1572_4715	yes		no
A	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Precorrin-2 oxidase (EC 1.3.1.76)	SCE1572_637	yes		no
A	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	Heme and Siroheme Biosynthesis	Sirohydrochlorin ferrochelatase (EC 4.99.1.4)	SCE1572_637	yes		no
B	Cofactors, Vitamins, Prosthetic Grou	Tetrapyrroles	B12-Duf71	Cob(I)alamin adenosyltransferase PduO (EC 2.5.1.17)		no	sce_4313	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Cysteine desulfurase (EC 2.8.1.7), IscS subfamily	SCE1572_9417	yes	sce_8204	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Glycine oxidase ThiO (EC 1.4.3.19)	SCE1572_10901	yes	sce_9534	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Hydroxymethylpyrimidine ABC transporter, substrate-binding compone	SCE1572_7412	yes	sce_2167	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Hydroxymethylpyrimidine ABC transporter, transmembrane componen	SCE1572_7411	yes	sce_6169	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Phosphomethylpyrimidine kinase (EC 2.7.4.7)	SCE1572_978	yes	sce_737	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Sulfur carrier protein ThiS	SCE1572_7171	yes	sce_5900	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Sulfur carrier protein adenylyltransferase ThiF	SCE1572_5128	yes	sce_4315	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Thiamin biosynthesis protein ThiC	SCE1572_5711	yes	sce_4764	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Thiamin-phosphate pyrophosphorylase (EC 2.5.1.3)	SCE1572_2436	yes	sce_1990	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Thiamine-monophosphate kinase (EC 2.7.4.16)	SCE1572_628	yes	sce_436	yes
A and B	Cofactors, Vitamins, Prosthetic Grou	no subcategory	Thiamin biosynthesis	Thiazole biosynthesis protein ThiG	SCE1572_5704	yes	sce_4756	yes
A and B	DNA Metabolism	CRISPs	CRISPRs	CRISPR-associated helicase Cas3	SCE1572_482	yes	sce_293	yes
A and B	DNA Metabolism	CRISPs	CRISPRs	CRISPR-associated protein Cas1	SCE1572_485	yes	sce_296	yes
A and B	DNA Metabolism	CRISPs	CRISPRs	CRISPR-associated protein Cas2	SCE1572_486	yes	sce_297	yes
B	DNA Metabolism	CRISPs	CRISPRs	CRISPR repeat RNA endoribonuclease Cas6		no	sce_6381	yes
B	DNA Metabolism	CRISPs	CRISPRs	CRISPR-associated RecB family exonuclease Cas4b		no	sce_10250	yes
B	DNA Metabolism	CRISPs	CRISP Cmr Cluster	CRISPR-associated RAMP Cmr1		no	sce_6355	yes
B	DNA Metabolism	CRISPs	CRISP Cmr Cluster	CRISPR-associated RAMP Cmr2		no	sce_6356	yes
B	DNA Metabolism	CRISPs	CRISP Cmr Cluster	CRISPR-associated RAMP Cmr3		no	sce_6357	yes
B	DNA Metabolism	CRISPs	CRISP Cmr Cluster	CRISPR-associated RAMP Cmr4		no	sce_6358	yes
B	DNA Metabolism	CRISPs	CRISP Cmr Cluster	CRISPR-associated RAMP Cmr5		no	sce_6359	yes
B	DNA Metabolism	CRISPs	CRISP Cmr Cluster	CRISPR-associated RAMP Cmr6		no	sce_6360	yes
A and B	DNA Metabolism	DNA recombination	RuvABC plus a hypothetical	Crossover junction endodeoxyribonuclease RuvC (EC 3.1.22.4)	SCE1572_6826	yes	sce_5687	yes
A and B	DNA Metabolism	DNA recombination	RuvABC plus a hypothetical	FIG000859: hypothetical protein YebC	SCE1572_9484	yes	sce_8271	yes
A and B	DNA Metabolism	DNA recombination	RuvABC plus a hypothetical	Holliday junction DNA helicase RuvA	SCE1572_527	yes	sce_330	yes
A and B	DNA Metabolism	DNA recombination	RuvABC plus a hypothetical	Holliday junction DNA helicase RuvB	SCE1572_9294	yes	sce_8074	yes
A and B	DNA Metabolism	DNA repair	2-phosphoglycolate salvage	Phosphoglycolate phosphatase (EC 3.1.3.18)	SCE1572_11194	yes	sce_8372	yes
A and B	DNA Metabolism	DNA repair	2-phosphoglycolate salvage	Putative phosphatase YqaB	SCE1572_1585	yes	sce_7900	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	ATP-dependent DNA ligase (EC 6.5.1.1) LigC	SCE1572_8901	yes	sce_7677	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	ATP-dependent DNA ligase (EC 6.5.1.1) clustered with Ku protein, Li	SCE1572_2124	yes	sce_3945	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	DNA ligase (EC 6.5.1.2)	SCE1572_6029	yes	sce_4982	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	DNA polymerase I (EC 2.7.7.7)	SCE1572_10576	yes	sce_9687	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	DNA polymerase II (EC 2.7.7.7)	SCE1572_7372	yes	sce_6153	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	DNA-3-methyladenine glycosylase II (EC 3.2.2.21)	SCE1572_8247	yes	sce_6918	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	Endonuclease III (EC 4.2.99.18)	SCE1572_5224	yes	sce_4379	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	Formamidopyrimidine-DNA glycosylase (EC 3.2.2.23)	SCE1572_4699	yes	sce_3926	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	Ku domain protein	SCE1572_3505	yes	sce_2988	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	Single-stranded-DNA-specific exonuclease RecJ (EC 3.1.-.-)	SCE1572_6054	yes	sce_5005	yes
A and B	DNA Metabolism	DNA repair	DNA Repair Base Excision	Uracil-DNA glycosylase, family 1	SCE1572_6285	yes	sce_5311	yes
A and B	DNA Metabolism	DNA repair	DNA repair, UvrABC system	Excinuclease ABC subunit A	SCE1572_5037	yes	sce_4238	yes
A and B	DNA Metabolism	DNA repair	DNA repair, UvrABC system	Excinuclease ABC subunit A paralog of unknown function	SCE1572_1785	yes	sce_7067	yes
A and B	DNA Metabolism	DNA repair	DNA repair, UvrABC system	Excinuclease ABC subunit A, dimeric form	SCE1572_3397	yes	sce_2884	yes
A and B	DNA Metabolism	DNA repair	DNA repair, UvrABC system	Excinuclease ABC subunit B	SCE1572_986	yes	sce_747	yes
A and B	DNA Metabolism	DNA repair	DNA repair, UvrABC system	Excinuclease ABC subunit C	SCE1572_9492	yes	sce_8277	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	A/G-specific adenine glycosylase (EC 3.2.2.-)	SCE1572_5244	yes	sce_4399	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	Alkylated DNA repair protein AlkB	SCE1572_9443	yes	sce_6393	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	DNA mismatch repair endonuclease MutH	SCE1572_4044	yes	sce_3370	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	DNA polymerase IV (EC 2.7.7.7)	SCE1572_2024	yes	sce_1510	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	DNA polymerase-like protein PA0670	SCE1572_2385	yes	sce_1938	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	DNA repair protein RadC	SCE1572_140	yes	sce_512	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	DNA repair protein RecN	SCE1572_1678	yes	sce_1193	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	Exodeoxyribonuclease III (EC 3.1.11.2)	SCE1572_10436	yes	sce_9077	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	Exodeoxyribonuclease VII large subunit (EC 3.1.11.6)	SCE1572_3278	yes	sce_2773	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	Exodeoxyribonuclease VII small subunit (EC 3.1.11.6)	SCE1572_8519	yes	sce_6045	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	Exonuclease SbcC	SCE1572_6457	yes	sce_3501	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	G:T/U mismatch-specific uracil/thymine DNA-glycosylase	SCE1572_6850	yes	sce_5712	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	Methylated-DNA--protein-cysteine methyltransferase (EC 2.1.1.63)	SCE1572_1428	yes	sce_6948	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	RecA protein	SCE1572_2384	yes	sce_1937	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	SOS-response repressor and protease LexA (EC 3.4.21.88)	SCE1572_6042	yes	sce_4994	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial	Single-stranded DNA-binding protein	SCE1572_3458	yes	sce_2948	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial DinG and relatives	DinG family ATP-dependent helicase YoaA	SCE1572_4006	yes	sce_3336	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial MutL-MutS system	DNA mismatch repair protein MutL	SCE1572_6791	yes	sce_9496	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial MutL-MutS system	DNA mismatch repair protein MutS	SCE1572_4190	yes	sce_3512	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial MutL-MutS system	MutS-related protein, family 1	SCE1572_2103	yes	sce_1619	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial MutL-MutS system	Recombination inhibitory protein MutS2	SCE1572_2121	yes	sce_1634	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial RecBCD pathway	RecD-like DNA helicase YrrC	SCE1572_10040	yes	sce_8856	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial RecFOR pathway	ATP-dependent DNA helicase RecQ	SCE1572_3180	yes	sce_3239	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial RecFOR pathway	DNA recombination and repair protein RecF	SCE1572_10486	yes	sce_9131	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial RecFOR pathway	DNA recombination and repair protein RecO	SCE1572_2322	yes	sce_1869	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial RecFOR pathway	RecA protein	SCE1572_2384	yes	sce_1937	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial RecFOR pathway	Recombination protein RecR	SCE1572_473	yes	sce_284	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial RecFOR pathway	Single-stranded DNA-binding protein	SCE1572_3458	yes	sce_2948	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial RecFOR pathway	Single-stranded-DNA-specific exonuclease RecJ (EC 3.1.-.-)	SCE1572_6054	yes	sce_5005	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial UvrD and related helicases	ATP-dependent DNA helicase Rep	SCE1572_9696	yes	sce_8505	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial UvrD and related helicases	ATP-dependent DNA helicase UvrD/PcrA	SCE1572_1375	yes	sce_1002	yes
A and B	DNA Metabolism	DNA repair	DNA repair, bacterial photolyase	Deoxyribodipyrimidine photolyase, type II (EC 4.1.99.3)	SCE1572_8415	yes	sce_7176	yes
A and B	DNA Metabolism	DNA repair	DNA repair system including RecA, MutS and a hypothetical p	DNA mismatch repair protein MutS	SCE1572_4190	yes	sce_3512	yes
A and B	DNA Metabolism	DNA repair	DNA repair system including RecA, MutS and a hypothetical p	RecA protein	SCE1572_2384	yes	sce_1937	yes
A and B	DNA Metabolism	DNA repair	Nonhomologous End-Joining in Bacteria	ATP-dependent DNA ligase (EC 6.5.1.1) LigC	SCE1572_8901	yes	sce_7677	yes
A and B	DNA Metabolism	DNA repair	Nonhomologous End-Joining in Bacteria	ATP-dependent DNA ligase (EC 6.5.1.1) clustered with Ku protein, Li	SCE1572_2124	yes	sce_3945	yes
A and B	DNA Metabolism	DNA repair	Nonhomologous End-Joining in Bacteria	Ku domain protein	SCE1572_3505	yes	sce_2988	yes
A and B	DNA Metabolism	DNA repair	Uracil-DNA glycosylase	G:T/U mismatch-specific uracil/thymine DNA-glycosylase	SCE1572_6850	yes	sce_5712	yes
A and B	DNA Metabolism	DNA repair	Uracil-DNA glycosylase	Uracil-DNA glycosylase, family 1	SCE1572_6285	yes	sce_5311	yes
A and B	DNA Metabolism	DNA repair	Uracil-DNA glycosylase	Uracil-DNA glycosylase, family 4	SCE1572_9744	yes	sce_8545	yes
A and B	DNA Metabolism	DNA repair	Uracil-DNA glycosylase	Uracil-DNA glycosylase, family 5	SCE1572_4017	yes	sce_3345	yes
A and B	DNA Metabolism	DNA repair	Uracil-DNA glycosylase	Uracil-DNA glycosylase, putative family 6	SCE1572_2224	yes	sce_1931	yes
A	DNA Metabolism	DNA repair	DNA Repair Base Excision	DNA-3-methyladenine glycosylase (EC 3.2.2.20)	SCE1572_1611	yes		no
A	DNA Metabolism	DNA repair	DNA repair, bacterial	Endonuclease IV (EC 3.1.21.2)	SCE1572_10158	yes		no
A	DNA Metabolism	DNA repair	DNA repair, bacterial RecFOR pathway	ATP-dependent DNA helicase, RecQ family	SCE1572_2832	yes		no
A	DNA Metabolism	DNA repair	Uracil-DNA glycosylase	Domain often clustered or fused with uracil-DNA glycosylase	SCE1572_2224	yes		no
A and B	DNA Metabolism	DNA replication	DNA-replication	ATP-dependent DNA helicase RecQ	SCE1572_3180	yes	sce_3239	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	Chromosomal replication initiator protein DnaA	SCE1572_1	yes	sce_1	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	Crossover junction endodeoxyribonuclease RuvC (EC 3.1.22.4)	SCE1572_6826	yes	sce_5687	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	DNA polymerase I (EC 2.7.7.7)	SCE1572_10576	yes	sce_9687	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	DNA polymerase II (EC 2.7.7.7)	SCE1572_7372	yes	sce_6153	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	DNA polymerase III alpha subunit (EC 2.7.7.7)	SCE1572_2386	yes	sce_1939	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	DNA polymerase III beta subunit (EC 2.7.7.7)	SCE1572_10485	yes	sce_9130	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	DNA polymerase III delta prime subunit (EC 2.7.7.7)	SCE1572_2438	yes	sce_1992	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	DNA polymerase III delta subunit (EC 2.7.7.7)	SCE1572_7209	yes	sce_5936	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	DNA polymerase III epsilon subunit (EC 2.7.7.7)	SCE1572_2355	yes	sce_1906	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	DNA polymerase III subunits gamma and tau (EC 2.7.7.7)	SCE1572_475	yes	sce_286	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	DNA primase (EC 2.7.7.-)	SCE1572_6017	yes	sce_4970	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	DNA repair protein RecN	SCE1572_1678	yes	sce_1193	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	Helicase PriA essential for oriC/DnaA-independent DNA replication	SCE1572_9110	yes	sce_7892	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	Holliday junction DNA helicase RuvA	SCE1572_527	yes	sce_330	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	Holliday junction DNA helicase RuvB	SCE1572_9294	yes	sce_8074	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	RecA protein	SCE1572_2384	yes	sce_1937	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	Recombination protein RecR	SCE1572_473	yes	sce_284	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	Replicative DNA helicase (EC 3.6.1.-)	SCE1572_9006	yes	sce_7771	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	Single-stranded-DNA-specific exonuclease RecJ (EC 3.1.-.-)	SCE1572_6054	yes	sce_5005	yes
A and B	DNA Metabolism	DNA replication	DNA-replication	Transcription-repair coupling factor	SCE1572_3464	yes	sce_2957	yes
A and B	DNA Metabolism	DNA replication	DNA Helicase of Unknown Function	DNA helicase (Rad25 homolog)	SCE1572_8858	yes	sce_7626	yes
A and B	DNA Metabolism	DNA replication	DNA Helicase of Unknown Function	Hypothetical protein (associated with DNA helicase - Rad25 homolog)	SCE1572_8859	yes	sce_7627	yes
A and B	DNA Metabolism	DNA replication	DNA topoisomerases, Type II, ATP-dependent	DNA gyrase subunit A (EC 5.99.1.3)	SCE1572_4963	yes	sce_4070	yes
A and B	DNA Metabolism	DNA replication	DNA topoisomerases, Type II, ATP-dependent	DNA gyrase subunit B (EC 5.99.1.3)	SCE1572_10487	yes	sce_9133	yes
A and B	DNA Metabolism	DNA replication	DNA topoisomerases, Type II, ATP-dependent	Topoisomerase IV subunit A (EC 5.99.1.-)	SCE1572_6023	yes	sce_4976	yes
A and B	DNA Metabolism	DNA replication	DNA topoisomerases, Type II, ATP-dependent	Topoisomerase IV subunit B (EC 5.99.1.-)	SCE1572_6024	yes	sce_4977	yes
B	DNA Metabolism	DNA replication	DNA-replication	Exodeoxyribonuclease V beta chain (EC 3.1.11.5)		no	sce_3248	yes
A and B	DNA Metabolism	DNA uptake, competence	DNA processing cluster	DNA polymerase III subunits gamma and tau (EC 2.7.7.7)	SCE1572_475	yes	sce_286	yes
A and B	DNA Metabolism	DNA uptake, competence	DNA processing cluster	DNA topoisomerase III (EC 5.99.1.2)	SCE1572_4582	yes	sce_3821	yes
A and B	DNA Metabolism	DNA uptake, competence	DNA processing cluster	FIG000557: hypothetical protein co-occurring with RecR	SCE1572_474	yes	sce_285	yes
A and B	DNA Metabolism	DNA uptake, competence	DNA processing cluster	Recombination protein RecR	SCE1572_473	yes	sce_284	yes
A and B	DNA Metabolism	no subcategory	DNA structural proteins, bacterial	Chromosome partition protein MukB	SCE1572_4305	yes	sce_6370	yes
A and B	DNA Metabolism	no subcategory	DNA structural proteins, bacterial	Chromosome partition protein MukE	SCE1572_4306	yes	sce_6371	yes
A and B	DNA Metabolism	no subcategory	DNA structural proteins, bacterial	Chromosome partition protein MukF	SCE1572_4307	yes	sce_6372	yes
A and B	DNA Metabolism	no subcategory	DNA structural proteins, bacterial	Chromosome partition protein smc	SCE1572_2390	yes	sce_1942	yes
A and B	DNA Metabolism	no subcategory	DNA structural proteins, bacterial	Integration host factor alpha subunit	SCE1572_10292	yes	sce_9620	yes
A and B	DNA Metabolism	no subcategory	DNA structural proteins, bacterial	Integration host factor beta subunit	SCE1572_775	yes	sce_573	yes
A and B	DNA Metabolism	no subcategory	Restriction-Modification System	Type I restriction-modification system, DNA-methyltransferase subunit	SCE1572_1519	yes	sce_6179	yes
A and B	DNA Metabolism	no subcategory	Restriction-Modification System	Type I restriction-modification system, specificity subunit S (EC 3.1.21.	SCE1572_6449	yes	sce_6180	yes
A and B	DNA Metabolism	no subcategory	Type I Restriction-Modification	Type I restriction-modification system, DNA-methyltransferase subunit	SCE1572_1519	yes	sce_6179	yes
A and B	DNA Metabolism	no subcategory	Type I Restriction-Modification	Type I restriction-modification system, specificity subunit S (EC 3.1.21.	SCE1572_6449	yes	sce_6180	yes
A and B	DNA Metabolism	no subcategory	YcfH	Putative deoxyribonuclease YcfH	SCE1572_5029	yes	sce_4231	yes
A	DNA Metabolism	no subcategory	Restriction-Modification System	Putative DNA-binding protein in cluster with Type I restriction-modifica	SCE1572_10570	yes		no
A	DNA Metabolism	no subcategory	Restriction-Modification System	Putative predicted metal-dependent hydrolase	SCE1572_10572	yes		no
A	DNA Metabolism	no subcategory	Restriction-Modification System	Type I restriction-modification system, restriction subunit R (EC 3.1.21.	SCE1572_6450	yes		no
B	DNA Metabolism	no subcategory	Restriction-Modification System	Type III restriction-modification system methylation subunit (EC 2.1.1.72)		no	sce_2039	yes
A and B	Dormancy and Sporulation	no subcategory	Persister Cells	Cell division inhibitor	SCE1572_1969	yes	sce_1471	yes
A and B	Dormancy and Sporulation	no subcategory	Sporulation-associated proteins with broader functions	Peptidyl-tRNA hydrolase (EC 3.1.1.29)	SCE1572_9000	yes	sce_7765	yes
A	Dormancy and Sporulation	no subcategory	Persister Cells	HipA protein	SCE1572_6786	yes		no
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	(3R)-hydroxymyristoyl-[acyl carrier protein] dehydratase (EC 4.2.1.-)	SCE1572_3884	yes	sce_3208	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	SCE1572_1051	yes	sce_753	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)	SCE1572_3336	yes	sce_2832	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)	SCE1572_312	yes	sce_1349	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	4'-phosphopantetheinyl transferase (EC 2.7.8.-)	SCE1572_6807	yes	sce_5667	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	Acetyl-coenzyme A carboxyl transferase alpha chain (EC 6.4.1.2)	SCE1572_2434	yes	sce_1988	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	Acetyl-coenzyme A carboxyl transferase beta chain (EC 6.4.1.2)	SCE1572_2434	yes	sce_1988	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	Acyl carrier protein	SCE1572_860	yes	sce_3570	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	Biotin carboxyl carrier protein of acetyl-CoA carboxylase	SCE1572_5232	yes	sce_4387	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	Biotin carboxylase of acetyl-CoA carboxylase (EC 6.3.4.14)	SCE1572_5231	yes	sce_2771	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	Enoyl-[acyl-carrier-protein] reductase [FMN] (EC 1.3.1.9)	SCE1572_5384	yes	sce_2062	yes

A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	Enoyl-[acyl-carrier-protein] reductase [NADPH] (EC 1.3.1.10)	SCE1572_3437	yes	sce_2931	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	Holo-[acyl-carrier protein] synthase (EC 2.7.8.7)	SCE1572_551	yes	sce_357	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty Acid Biosynthesis FASII	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	SCE1572_592	yes	sce_401	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty acid metabolism cluster	3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)	SCE1572_60	yes	sce_50	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty acid metabolism cluster	3-hydroxybutyryl-CoA epimerase (EC 5.1.2.3)	SCE1572_60	yes	sce_50	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty acid metabolism cluster	3-ketoacyl-CoA thiolase (EC 2.3.1.16)	SCE1572_61	yes	sce_51	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty acid metabolism cluster	Enoyl-CoA hydratase (EC 4.2.1.17)	SCE1572_60	yes	sce_50	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Fatty acid metabolism cluster	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	SCE1572_267	yes	sce_389	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Polyunsaturated Fatty Acids synthesis	Enoyl-[acyl-carrier-protein] reductase [FMN] (EC 1.3.1.9), inferred for	SCE1572_1284	yes	sce_920	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Polyunsaturated Fatty Acids synthesis	omega-3 polyunsaturated fatty acid synthase subunit, PfaA	SCE1572_1285	yes	sce_921	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Fatty acids	Polyunsaturated Fatty Acids synthesis	omega-3 polyunsaturated fatty acid synthase subunit, PfaC	SCE1572_1286	yes	sce_922	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoid Biosynthesis	Acetyl-CoA acetyltransferase (EC 2.3.1.9)	SCE1572_61	yes	sce_51	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoid Biosynthesis	Dimethylallyltransferase (EC 2.5.1.1)	SCE1572_329	yes	sce_661	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoid Biosynthesis	Diphosphomevalonate decarboxylase (EC 4.1.1.33)	SCE1572_5666	yes	sce_4717	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoid Biosynthesis	Hydroxymethylglutaryl-CoA reductase (EC 1.1.1.34)	SCE1572_4053	yes	sce_3379	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoid Biosynthesis	Hydroxymethylglutaryl-CoA synthase (EC 2.3.3.10)	SCE1572_864	yes	sce_3568	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoid Biosynthesis	Isopentenyl-diphosphate delta-isomerase, FMN-dependent (EC 5.3.3.2)	SCE1572_2407	yes	sce_1961	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoid Biosynthesis	Mevalonate kinase (EC 2.7.1.36)	SCE1572_5665	yes	sce_4716	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoid Biosynthesis	Undecaprenyl diphosphate synthase (EC 2.5.1.31)	SCE1572_8264	yes	sce_2864	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoinds for Quinones	Dimethylallyltransferase (EC 2.5.1.1)	SCE1572_329	yes	sce_661	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoinds for Quinones	Undecaprenyl diphosphate synthase (EC 2.5.1.31)	SCE1572_8264	yes	sce_2864	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Mevalonate Branch of Isoprenoid Biosynthesis	Acetyl-CoA acetyltransferase (EC 2.3.1.9)	SCE1572_61	yes	sce_51	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Mevalonate Branch of Isoprenoid Biosynthesis	Diphosphomevalonate decarboxylase (EC 4.1.1.33)	SCE1572_5666	yes	sce_4717	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Mevalonate Branch of Isoprenoid Biosynthesis	Hydroxymethylglutaryl-CoA reductase (EC 1.1.1.34)	SCE1572_4053	yes	sce_3379	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Mevalonate Branch of Isoprenoid Biosynthesis	Hydroxymethylglutaryl-CoA synthase (EC 2.3.3.10)	SCE1572_864	yes	sce_3568	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Mevalonate Branch of Isoprenoid Biosynthesis	Mevalonate kinase (EC 2.7.1.36)	SCE1572_5665	yes	sce_4716	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Myxoxanthophyll biosynthesis in Cyanobacteria	Beta-carotene hydroxylase	SCE1572_884	yes	sce_658	yes
B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Isoprenoid Biosynthesis	Phosphomevalonate kinase (EC 2.7.4.2)		no	sce_4718	yes
B	Fatty Acids, Lipids, and Isoprenoids	Isoprenoids	Myxoxanthophyll biosynthesis in Cyanobacteria	Lycopene cyclase, CruA type		no	sce_657	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Cardiolipin synthesis	Cardiolipin synthetase (EC 2.7.8.-)	SCE1572_6566	yes	sce_5725	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)	SCE1572_48	yes	sce_47	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Acyl carrier protein	SCE1572_860	yes	sce_3570	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Acyl-phosphate:glycerol-3-phosphate O-acyltransferase PlsY	SCE1572_7399	yes	sce_6161	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Alcohol dehydrogenase (EC 1.1.1.1)	SCE1572_443	yes	sce_1248	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Aldehyde dehydrogenase (EC 1.2.1.3)	SCE1572_4022	yes	sce_2406	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Anaerobic glycerol-3-phosphate dehydrogenase subunit A (EC 1.1.5.3)	SCE1572_10981	yes	sce_9703	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Anaerobic glycerol-3-phosphate dehydrogenase subunit B (EC 1.1.5.3)	SCE1572_10980	yes	sce_9702	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase (E	SCE1572_1690	yes	sce_1204	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	CDP-diacylglycerol--serine O-phosphatidyltransferase (EC 2.7.8.8)	SCE1572_2263	yes	sce_1807	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Cardiolipin synthetase (EC 2.7.8.-)	SCE1572_6566	yes	sce_5725	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Glycerol kinase (EC 2.7.1.30)	SCE1572_9720	yes	sce_8524	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Glycerol-3-phosphate acyltransferase (EC 2.3.1.15)	SCE1572_10142	yes	sce_8945	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Glycerol-3-phosphate dehydrogenase (EC 1.1.5.3)	SCE1572_1855	yes	sce_1309	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Glycerol-3-phosphate dehydrogenase [NAD(P)] (EC 1.1.1.94)	SCE1572_9359	yes	sce_8140	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Phosphatidate cytidylyltransferase (EC 2.7.7.41)	SCE1572_8265	yes	sce_6936	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Phosphatidylglycerophosphatase B (EC 3.1.3.27)	SCE1572_11249	yes	sce_10035	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Phospholipids	Glycerolipid and Glycerophospholipid Metabolism in Bacteria	Phosphatidylserine decarboxylase (EC 4.1.1.65)	SCE1572_11298	yes	sce_10081	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Triacylglycerols	Triacylglycerol metabolism	Lysophospholipase (EC 3.1.1.5)	SCE1572_1412	yes	sce_1009	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	Triacylglycerols	Triacylglycerol metabolism	Monoglyceride lipase (EC 3.1.1.23)	SCE1572_1412	yes	sce_1009	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	no subcategory	Polyhydroxybutyrate metabolism	3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)	SCE1572_60	yes	sce_50	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	no subcategory	Polyhydroxybutyrate metabolism	3-hydroxybutyryl-CoA dehydratase (EC 4.2.1.55)	SCE1572_463	yes	sce_277	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	no subcategory	Polyhydroxybutyrate metabolism	3-hydroxybutyryl-CoA dehydrogenase (EC 1.1.1.157)	SCE1572_466	yes	sce_278	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	no subcategory	Polyhydroxybutyrate metabolism	3-hydroxybutyryl-CoA epimerase (EC 5.1.2.3)	SCE1572_60	yes	sce_50	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	no subcategory	Polyhydroxybutyrate metabolism	3-ketoacyl-CoA thiolase (EC 2.3.1.16)	SCE1572_61	yes	sce_51	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	no subcategory	Polyhydroxybutyrate metabolism	Acetyl-CoA acetyltransferase (EC 2.3.1.9)	SCE1572_61	yes	sce_51	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	no subcategory	Polyhydroxybutyrate metabolism	D-beta-hydroxybutyrate dehydrogenase (EC 1.1.1.30)	SCE1572_2679	yes	sce_2228	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	no subcategory	Polyhydroxybutyrate metabolism	Enoyl-CoA hydratase (EC 4.2.1.17)	SCE1572_60	yes	sce_50	yes
A and B	Fatty Acids, Lipids, and Isoprenoids	no subcategory	Polyhydroxybutyrate metabolism	Polyhydroxyalkanoic acid synthase	SCE1572_537	yes	sce_343	yes
A and B	Iron acquisition and metabolism	no subcategory	Hemin transport system	Ferric siderophore transport system, periplasmic binding protein TonB	SCE1572_5715	yes	sce_4768	yes
A and B	Iron acquisition and metabolism	no subcategory	Hemin transport system	Outer membrane receptor proteins, mostly Fe transport	SCE1572_1518	yes	sce_1041	yes
B	Iron acquisition and metabolism	no subcategory	Encapsulating protein for DyP-type peroxidase and ferritin-like	Uncharacterized protein COG3461		no	sce_5912	yes
A and B	Membrane Transport	ABC transporters	ABC transporter alkylphosphonate (TC 3.A.1.9.1)	Phosphonate ABC transporter phosphate-binding periplasmic componen	SCE1572_1724	yes	sce_1236	yes
A and B	Membrane Transport	ABC transporters	ABC transporter branched-chain amino acid (TC 3.A.1.4.1)	Branched-chain amino acid ABC transporter, amino acid-binding protei	SCE1572_1280	yes	sce_1493	yes
A and B	Membrane Transport	ABC transporters	ABC transporter branched-chain amino acid (TC 3.A.1.4.1)	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.	SCE1572_151	yes	sce_9615	yes
A and B	Membrane Transport	ABC transporters	ABC transporter branched-chain amino acid (TC 3.A.1.4.1)	Branched-chain amino acid transport ATP-binding protein LivG (TC 3.	SCE1572_4484	yes	sce_9614	yes
A and B	Membrane Transport	ABC transporters	ABC transporter branched-chain amino acid (TC 3.A.1.4.1)	Branched-chain amino acid transport system permease protein LivM (T	SCE1572_4483	yes	sce_9613	yes
A and B	Membrane Transport	ABC transporters	ABC transporter branched-chain amino acid (TC 3.A.1.4.1)	High-affinity branched-chain amino acid transport system permease pro	SCE1572_153	yes	sce_9290	yes
A and B	Membrane Transport	ABC transporters	ABC transporter dipeptide (TC 3.A.1.5.2)	Dipeptide transport system permease protein DppB (TC 3.A.1.5.2)	SCE1572_4877	yes	sce_4091	yes
A and B	Membrane Transport	ABC transporters	ABC transporter dipeptide (TC 3.A.1.5.2)	Dipeptide-binding ABC transporter, periplasmic substrate-binding comp	SCE1572_4504	yes	sce_3765	yes
A and B	Membrane Transport	ABC transporters	ABC transporter oligopeptide (TC 3.A.1.5.1)	Oligopeptide ABC transporter, periplasmic oligopeptide-binding protein	SCE1572_4629	yes	sce_3859	yes
A and B	Membrane Transport	ABC transporters	ABC transporter oligopeptide (TC 3.A.1.5.1)	Oligopeptide transport ATP-binding protein OppD (TC 3.A.1.5.1)	SCE1572_4652	yes	sce_3874	yes
A and B	Membrane Transport	ABC transporters	ABC transporter oligopeptide (TC 3.A.1.5.1)	Oligopeptide transport ATP-binding protein OppF (TC 3.A.1.5.1)	SCE1572_4653	yes	sce_3875	yes
A and B	Membrane Transport	ABC transporters	ABC transporter oligopeptide (TC 3.A.1.5.1)	Oligopeptide transport system permease protein OppB (TC 3.A.1.5.1)	SCE1572_2728	yes	sce_2266	yes
A and B	Membrane Transport	ABC transporters	ABC transporter oligopeptide (TC 3.A.1.5.1)	Oligopeptide transport system permease protein OppC (TC 3.A.1.5.1)	SCE1572_2727	yes	sce_2265	yes
B	Membrane Transport	ABC transporters	ABC transporter branched-chain amino acid (TC 3.A.1.4.1)	High-affinity leucine-specific transport system, periplasmic binding protein LivK (TC 3.A.1.4.1)		no	sce_10187	yes
A and B	Membrane Transport	Cation transporters	Magnesium transport	Magnesium and cobalt transport protein CorA	SCE1572_8871	yes	sce_7630	yes
B	Membrane Transport	Cation transporters	Magnesium transport	Mg/Co/Ni transporter MgtE		no	sce_3950	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	ClpB protein	SCE1572_6714	yes	sce_5586	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	IcmF-related protein	SCE1572_6710	yes	sce_5582	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Protein ImpG/VasA	SCE1572_6723	yes	sce_5595	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Sigma-54 dependent transcriptional regulator	SCE1572_9885	yes	sce_8696	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Type VI secretion lipoprotein/VasD	SCE1572_6713	yes	sce_5585	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Uncharacterized protein ImpA	SCE1572_6708	yes	sce_5580	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Uncharacterized protein ImpB	SCE1572_6706	yes	sce_638	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Uncharacterized protein ImpC	SCE1572_1876	yes	sce_1392	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Uncharacterized protein ImpH/VasB	SCE1572_6724	yes	sce_5596	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Uncharacterized protein ImpI/VasC	SCE1572_6716	yes	sce_5588	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Uncharacterized protein ImpJ/VasE	SCE1572_6712	yes	sce_5584	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Uncharacterized protein similar to VCA0109	SCE1572_6722	yes	sce_5594	yes
A and B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	VgrG protein	SCE1572_53	yes	sce_117	yes
B	Membrane Transport	Protein secretion system, Type VI	Type VI secretion systems	Uncharacterized protein ImpF		no	sce_10433	yes
A and B	Membrane Transport	Protein translocation across cytoplasmic memb	Bacterial signal recognition particle (SRP)	Signal recognition particle receptor protein FtsY (=alpha subunit) (TC 3	SCE1572_3933	yes	sce_3267	yes
A and B	Membrane Transport	Protein translocation across cytoplasmic memb	Bacterial signal recognition particle (SRP)	Signal recognition particle, subunit Ffh SRP54 (TC 3.A.5.1.1)	SCE1572_4739	yes	sce_9541	yes
A and B	Membrane Transport	Protein translocation across cytoplasmic memb	Twin-arginine translocation system	Twin-arginine translocation protein TatB	SCE1572_2968	yes	sce_4361	yes
A and B	Membrane Transport	Protein translocation across cytoplasmic memb	Twin-arginine translocation system	Twin-arginine translocation protein TatC	SCE1572_5204	yes	sce_4362	yes
A	Membrane Transport	TRAP transporters	TRAP Transporter collection	TRAP-type C4-dicarboxylate transport system, large permease compon	SCE1572_4547	yes		no
A	Membrane Transport	TRAP transporters	TRAP Transporter collection	TRAP-type C4-dicarboxylate transport system, periplasmic component	SCE1572_4545	yes		no
A	Membrane Transport	TRAP transporters	TRAP Transporter collection	TRAP-type C4-dicarboxylate transport system, small permease compon	SCE1572_4546	yes		no
A and B	Membrane Transport	Uni- Sym- and Antiporters	Multi-subunit cation antiporter	Na() H() antiporter subunit A	SCE1572_3619	yes	sce_2155	yes
A and B	Membrane Transport	Uni- Sym- and Antiporters	Multi-subunit cation antiporter	Na() H() antiporter subunit B	SCE1572_3620	yes	sce_2154	yes
A and B	Membrane Transport	Uni- Sym- and Antiporters	Multi-subunit cation antiporter	Na() H() antiporter subunit C	SCE1572_3621	yes	sce_2153	yes
A and B	Membrane Transport	Uni- Sym- and Antiporters	Multi-subunit cation antiporter	Na() H() antiporter subunit D	SCE1572_3622	yes	sce_2152	yes
A and B	Membrane Transport	Uni- Sym- and Antiporters	Multi-subunit cation antiporter	Na() H() antiporter subunit E	SCE1572_3623	yes	sce_2151	yes
A and B	Membrane Transport	Uni- Sym- and Antiporters	Multi-subunit cation antiporter	Na() H() antiporter subunit F	SCE1572_3624	yes	sce_2150	yes
A and B	Membrane Transport	Uni- Sym- and Antiporters	Multi-subunit cation antiporter	Na() H() antiporter subunit G	SCE1572_3625	yes	sce_2149	yes
A and B	Membrane Transport	Uni- Sym- and Antiporters	NhaA, NhaD and Sodium-dependent phosphate transporters	Na antiporter NhaA type	SCE1572_4429	yes	sce_3666	yes
A and B	Membrane Transport	Uni- Sym- and Antiporters	Proton-dependent Peptide Transporters	Di-/tripeptide transporter	SCE1572_3305	yes	sce_6349	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	4-hydroxybenzoyl-CoA thioesterase family active site	SCE1572_2810	yes	sce_3385	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	Biopolymer transport protein ExbD/TolR	SCE1572_970	yes	sce_730	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	Ferric siderophore transport system, periplasmic binding protein TonB	SCE1572_5715	yes	sce_4768	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	MotA/TolQ/ExbB proton channel family protein	SCE1572_969	yes	sce_729	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	Outer membrane lipoprotein omp16 precursor	SCE1572_7219	yes	sce_1206	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	Peptidoglycan-associated lipoprotein precursor	SCE1572_968	yes	sce_728	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	Protein-L-isoaspartate O-methyltransferase (EC 2.1.1.77)	SCE1572_903	yes	sce_6084	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	TPR domain protein, putative component of TonB system	SCE1572_467	yes	sce_279	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	Tol biopolymer transport system, TolR protein	SCE1572_6817	yes	sce_5679	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	TolA protein	SCE1572_20	yes	sce_20	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	TonB-dependent receptor	SCE1572_1160	yes	sce_1353	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	iron-chelator utilization protein	SCE1572_5182	yes	sce_4343	yes
A and B	Membrane Transport	no subcategory	Ton and Tol transport systems	tolB protein precursor, periplasmic protein involved in the tonb-indepen	SCE1572_972	yes	sce_732	yes
A and B	Membrane Transport	no subcategory	Transport of Nickel and Cobalt	ATPase component CbiO of energizing module of cobalt ECF transport	SCE1572_459	yes	sce_271	yes
A and B	Membrane Transport	no subcategory	Transport of Nickel and Cobalt	Nickel responsive regulator NikR	SCE1572_4883	yes	sce_4096	yes
A and B	Membrane Transport	no subcategory	Transport of Nickel and Cobalt	Nickel transporter UreH	SCE1572_1803	yes	sce_6510	yes
A and B	Membrane Transport	no subcategory	Transport of Nickel and Cobalt	Substrate-specific component CbiM of cobalt ECF transporter	SCE1572_462	yes	sce_274	yes
A and B	Membrane Transport	no subcategory	Transport of Nickel and Cobalt	Transmembrane component NikQ of energizing module of nickel ECF t	SCE1572_460	yes	sce_272	yes
A	Membrane Transport	no subcategory	Transport of Nickel and Cobalt	HupE-UreJ family metal transporter	SCE1572_1155	yes		no
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	Catechol branch of beta-ketoadipate pathway	Beta-ketoadipate enol-lactone hydrolase (EC 3.1.1.24)	SCE1572_10986	yes	sce_7423	yes
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	Catechol branch of beta-ketoadipate pathway	Muconate cycloisomerase (EC 5.5.1.1)	SCE1572_3882	yes	sce_3206	yes
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	Catechol branch of beta-ketoadipate pathway	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit A (EC 2.8.3.	SCE1572_7617	yes	sce_6477	yes
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	Catechol branch of beta-ketoadipate pathway	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit B (EC 2.8.3.	SCE1572_7618	yes	sce_6478	yes
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	Homogentisate pathway of aromatic compound degradation	4-hydroxyphenylpyruvate dioxygenase (EC 1.13.11.27)	SCE1572_4318	yes	sce_5475	yes
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	Homogentisate pathway of aromatic compound degradation	Fumarylacetoacetase (EC 3.7.1.2)	SCE1572_7163	yes	sce_5897	yes
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	Homogentisate pathway of aromatic compound degradation	Homogentisate 1,2-dioxygenase (EC 1.13.11.5)	SCE1572_4319	yes	sce_5474	yes
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	Homogentisate pathway of aromatic compound degradation	Maleylacetoacetate isomerase (EC 5.2.1.2)	SCE1572_7883	yes	sce_6399	yes
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	Homogentisate pathway of aromatic compound degradation	Transcriptional regulator, IclR family	SCE1572_353	yes	sce_194	yes
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	N-heterocyclic aromatic compound degradation	Isoquinoline 1-oxidoreductase alpha subunit (EC 1.3.99.16)	SCE1572_6274	yes	sce_3739	yes
A and B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	N-heterocyclic aromatic compound degradation	Isoquinoline 1-oxidoreductase beta subunit (EC 1.3.99.16)	SCE1572_6275	yes	sce_3738	yes
B	Metabolism of Aromatic Compound	Metabolism of central aromatic intermediates	Salicylate and gentisate catabolism	Salicylate hydroxylase (EC 1.14.13.1)		no	sce_5377	yes
A and B	Metabolism of Aromatic Compound	Peripheral pathways for catabolism of aromatic	Benzoate catabolism	Muconate cycloisomerase (EC 5.5.1.1)	SCE1572_3882	yes	sce_3206	yes
A and B	Metabolism of Aromatic Compound	Peripheral pathways for catabolism of aromatic	Quinate degradation	3-dehydroquinate dehydratase I (EC 4.2.1.10)	SCE1572_5233	yes	sce_4388	yes
A and B	Metabolism of Aromatic Compound	no subcategory	Aromatic Amin Catabolism	Aldehyde dehydrogenase (EC 1.2.1.3), PaaZ	SCE1572_4846	yes	sce_4058	yes
A and B	Metabolism of Aromatic Compound	no subcategory	Benzoate transport and degradation cluster	4-hydroxybenzoyl-CoA reductase, gamma subunit (EC 1.3.99.20)	SCE1572_7792	yes	sce_6598	yes
A and B	Metabolism of Aromatic Compound	no subcategory	Benzoate transport and degradation cluster	Benzoate-CoA ligase (EC 6.2.1.25)	SCE1572_2673	yes	sce_2222	yes
A and B	Metabolism of Aromatic Compound	no subcategory	Benzoate transport and degradation cluster	Benzoyl-CoA oxygenase component B	SCE1572_1670	yes	sce_1186	yes
A and B	Metabolism of Aromatic Compound	no subcategory	Benzoate transport and degradation cluster	Methylglutaconyl-CoA hydratase (EC 4.2.1.18)	SCE1572_861	yes	sce_1987	yes
A and B	Metabolism of Aromatic Compound	no subcategory	Benzoate transport and degradation cluster	Regulatory protein of benzoate catabolism	SCE1572_1672	yes	sce_1188	yes
A and B	Metabolism of Aromatic Compound	no subcategory	Benzoate transport and degradation cluster	Shikimate kinase I (EC 2.7.1.71)	SCE1572_6396	yes	sce_5415	yes
A and B	Metabolism of Aromatic Compound	no subcategory	Benzoate transport and degradation cluster	benzoyl-CoA-dihydrodiol lyase (BoxC)	SCE1572_1671	yes	sce_1187	yes
A and B	Metabolism of Aromatic Compound	no subcategory	Gentisare degradation	Fumarylacetoacetate hydrolase family protein	SCE1572_3892	yes	sce_3221	yes
A and B	Metabolism of Aromatic Compound	no subcategory	Gentisare degradation	Maleylacetoacetate isomerase (EC 5.2.1.2)	SCE1572_7883	yes	sce_6399	yes
A	Metabolism of Aromatic Compound	no subcategory	Aromatic Amin Catabolism	4-hydroxyphenylacetate 3-monooxygenase (EC 1.14.13.3)	SCE1572_2989	yes		no
A	Metabolism of Aromatic Compound	no subcategory	Gentisare degradation	4-hydroxybenzoate transporter	SCE1572_2508	yes		no
A and B	Miscellaneous	Plant-Prokaryote DOE project	At1g24340	FAD-binding monooxygenase, PheA/TfdB family, similarity to 2,4-dich	SCE1572_309	yes	sce_7865	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At1g52510 AT4G12830 (COG0596)	Enoyl-[acyl-carrier-protein] reductase [FMN] (EC 1.3.1.9), inferred for	SCE1572_1284	yes	sce_920	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At1g52510 AT4G12830 (COG0596)	omega-3 polyunsaturated fatty acid synthase subunit, PfaA	SCE1572_1285	yes	sce_921	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At1g52510 AT4G12830 (COG0596)	omega-3 polyunsaturated fatty acid synthase subunit, PfaC	SCE1572_1286	yes	sce_922	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At2g23840	Cysteinyl-tRNA synthetase (EC 6.1.1.16)	SCE1572_7237	yes	sce_693	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At2g23840	DNA-directed RNA polymerase alpha subunit (EC 2.7.7.6)	SCE1572_10059	yes	sce_8876	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At2g23840	HNH endonuclease family protein	SCE1572_2354	yes	sce_1905	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At2g23840	Peptide chain release factor 1	SCE1572_11293	yes	sce_10076	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At2g23840	glutamyl-Q-tRNA synthetase	SCE1572_870	yes	sce_645	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At3g21300	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6)	SCE1572_2395	yes	sce_127	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At3g21300	Aspartyl-tRNA(Asn) amidotransferase subunit B (EC 6.3.5.6)	SCE1572_799	yes	sce_592	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At3g21300	Aspartyl-tRNA(Asn) amidotransferase subunit C (EC 6.3.5.6)	SCE1572_5745	yes	sce_4795	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At3g21300	Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)	SCE1572_2395	yes	sce_127	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At3g21300	Glutamyl-tRNA(Gln) amidotransferase subunit B (EC 6.3.5.7)	SCE1572_799	yes	sce_592	yes

A and B	Miscellaneous	Plant-Prokaryote DOE project	At3g21300	Glutamyl-tRNA(Gln) amidotransferase subunit C (EC 6.3.5.7)	SCE1572_5745	yes	sce_4795	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At3g21300	RNA methyltransferase, TrmA family	SCE1572_3368	yes	sce_2857	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At3g21300	Transcription regulator [contains diacylglycerol kinase catalytic domain	SCE1572_1549	yes	sce_1075	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g04520 AT1G06240	Amidophosphoribosyltransferase (EC 2.4.2.14)	SCE1572_5789	yes	sce_4836	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g04520 AT1G06240	COG2833: uncharacterized protein	SCE1572_1561	yes	sce_1091	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g04520 AT1G06240	COGs COG3146	SCE1572_5923	yes	sce_4926	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g04520 AT1G06240	Glutamate-ammonia-ligase adenylyltransferase (EC 2.7.7.42)	SCE1572_2412	yes	sce_1966	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g04520 AT1G06240	Large exoproteins involved in heme utilization or adhesion	SCE1572_4644	yes	sce_3741	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g04520 AT1G06240	Peptide methionine sulfoxide reductase MsrB (EC 1.8.4.12)	SCE1572_10145	yes	sce_6036	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g04520 AT1G06240	Thiol peroxidase, Bcp-type (EC 1.11.1.15)	SCE1572_6737	yes	sce_5609	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g37530	Aspartyl-tRNA synthetase (EC 6.1.1.12)	SCE1572_10640	yes	sce_9245	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g37530	Cysteine desulfurase (EC 2.8.1.7)	SCE1572_1872	yes	sce_1345	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g37530	Cysteine desulfurase (EC 2.8.1.7), IscS subfamily	SCE1572_9417	yes	sce_8204	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g37530	Cysteine desulfurase (EC 2.8.1.7), SufS subfamily	SCE1572_10250	yes	sce_5192	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g37530	Histidyl-tRNA synthetase (EC 6.1.1.21)	SCE1572_6135	yes	sce_5079	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g37530	Iron-sulfur cluster regulator IscR	SCE1572_7588	yes	sce_6444	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g37530	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase (EC 2.	SCE1572_9389	yes	sce_8169	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g38900	2-hydroxychromene-2-carboxylate isomerase/DsbA-like thioredoxin do	SCE1572_2043	yes	sce_1523	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g48545 and At3g56490 At1g31160	Foldase protein PrsA precursor (EC 5.2.1.8)	SCE1572_9344	yes	sce_8124	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g48545 and At3g56490 At1g31160	Histidine triad (HIT) nucleotide-binding protein, similarity with At5g485	SCE1572_8943	yes	sce_7710	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g48545 and At3g56490 At1g31160	Integration host factor alpha subunit	SCE1572_10292	yes	sce_9620	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g63420	Cell division protein FtsK	SCE1572_4011	yes	sce_1797	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g63420	Ferric uptake regulation protein FUR	SCE1572_7	yes	sce_7	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g63420	Inactive homolog of metal-dependent proteases, putative molecular cha	SCE1572_2318	yes	sce_1865	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g63420	Peptide deformylase (EC 3.5.1.88)	SCE1572_5077	yes	sce_4266	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g63420	Polyribonucleotide nucleotidyltransferase (EC 2.7.7.8)	SCE1572_6129	yes	sce_5074	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g63420	Ribonuclease J2 (endoribonuclease in RNA processing)	SCE1572_620	yes	sce_428	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g63420	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)	SCE1572_7710	yes	sce_6542	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	At5g63420	YgjD/Kae1/Qri7 family, required for N6-threonylcarbamoyl adenosine	SCE1572_2254	yes	sce_1799	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0277	D-2-hydroxyglutarate dehydrogenase	SCE1572_5592	yes	sce_4656	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0277	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)	SCE1572_1389	yes	sce_1692	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0277	Fumarylacetoacetate hydrolase family protein	SCE1572_3892	yes	sce_3221	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0451	Glycosyltransferase	SCE1572_681	yes	sce_484	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0451	Murein endopeptidase	SCE1572_10435	yes	sce_9076	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0451	Nucleoside-diphosphate-sugar epimerases	SCE1572_1129	yes	sce_1996	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0451	Undecaprenyl-diphosphatase (EC 3.6.1.27)	SCE1572_7898	yes	sce_6698	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	50S ribosomal subunit maturation GTPase RbgA (B. subtilis YlqF)	SCE1572_2042	yes	sce_1522	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	C4-type zinc finger protein, DksA/TraR family	SCE1572_5038	yes	sce_4239	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	Carbon starvation protein A	SCE1572_8282	yes	sce_6951	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	Creatinine amidohydrolase (EC 3.5.2.10)	SCE1572_2672	yes	sce_2221	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	SCE1572_330	yes	sce_4328	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	Dihydroorotase (EC 3.5.2.3)	SCE1572_5734	yes	sce_4784	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	GTP cyclohydrolase I (EC 3.5.4.16) type 1	SCE1572_11540	yes	sce_10389	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	High-affnity carbon uptake protein Hat/HatR	SCE1572_324	yes	sce_254	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	LSU ribosomal protein L21p	SCE1572_10045	yes	sce_8861	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	LSU ribosomal protein L27p	SCE1572_10044	yes	sce_8860	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	LSU ribosomal protein L28p	SCE1572_6001	yes	sce_4953	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	LSU ribosomal protein L31p	SCE1572_11291	yes	sce_10074	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	LSU ribosomal protein L32p	SCE1572_5086	yes	sce_4274	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	LSU ribosomal protein L33p	SCE1572_651	yes	sce_458	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	LSU ribosomal protein L36p	SCE1572_10064	yes	sce_8881	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	Phosphoribosyl-AMP cyclohydrolase (EC 3.5.4.19)	SCE1572_641	yes	sce_450	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	Phosphoribosyl-ATP pyrophosphatase (EC 3.6.1.31)	SCE1572_641	yes	sce_450	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	Putative metal chaperone, involved in Zn homeostasis, GTPase of COG	SCE1572_10351	yes	sce_9219	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	SSU ribosomal protein S14p (S29e)	SCE1572_10074	yes	sce_8891	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	Uracil phosphoribosyltransferase (EC 2.4.2.9)	SCE1572_3269	yes	sce_2764	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	Zinc uptake regulation protein ZUR	SCE1572_9283	yes	sce_8064	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG1565	2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokin	SCE1572_9665	yes	sce_8473	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG1565	COG1565: Uncharacterized conserved protein	SCE1572_4934	yes	sce_4145	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG1565	Dihydroneopterin aldolase (EC 4.1.2.25)	SCE1572_9262	yes	sce_8041	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG1565	FolM Alternative dihydrofolate reductase 1	SCE1572_10968	yes	sce_9682	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG1565	GTP cyclohydrolase I (EC 3.5.4.16) type 1	SCE1572_11540	yes	sce_10389	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG1565	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)	SCE1572_642	yes	sce_451	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG1565	Pterin-4-alpha-carbinolamine dehydratase (EC 4.2.1.96)	SCE1572_2342	yes	sce_1891	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG1565	Queuosine biosynthesis QueD, PTPS-I	SCE1572_10281	yes	sce_9631	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	COG2363	SCE1572_3822	yes	sce_3149	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	Cysteine desulfurase (EC 2.8.1.7)	SCE1572_1872	yes	sce_1345	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	Cysteine desulfurase (EC 2.8.1.7), IscS subfamily	SCE1572_9417	yes	sce_8204	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	Cysteine desulfurase (EC 2.8.1.7), SufS subfamily	SCE1572_10250	yes	sce_5192	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	Hydroxymethylpyrimidine ABC transporter, substrate-binding compone	SCE1572_7412	yes	sce_2167	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	Phosphomethylpyrimidine kinase (EC 2.7.4.7)	SCE1572_978	yes	sce_737	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	Sulfur carrier protein ThiS	SCE1572_7171	yes	sce_5900	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	ThiJ/PfpI family protein	SCE1572_500	yes	sce_1070	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	Thiamin biosynthesis protein ThiC	SCE1572_5711	yes	sce_4764	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	Thiamin-phosphate pyrophosphorylase (EC 2.5.1.3)	SCE1572_2436	yes	sce_1990	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2363	Thiazole biosynthesis protein ThiG	SCE1572_5704	yes	sce_4756	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2509	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] (EC	SCE1572_5465	yes	sce_8287	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG2509	Hypothetical protein YbbP, contains nucleotide-binding domain of DisA	SCE1572_9729	yes	sce_8531	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokin	SCE1572_9665	yes	sce_8473	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	4-hydroxyphenylpyruvate dioxygenase (EC 1.13.11.27)	SCE1572_4318	yes	sce_5475	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	COGs COG3146	SCE1572_5923	yes	sce_4926	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	Dihydroneopterin aldolase (EC 4.1.2.25)	SCE1572_9262	yes	sce_8041	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	FolM Alternative dihydrofolate reductase 1	SCE1572_10968	yes	sce_9682	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	Fumarylacetoacetase (EC 3.7.1.2)	SCE1572_7163	yes	sce_5897	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	GTP cyclohydrolase I (EC 3.5.4.16) type 1	SCE1572_11540	yes	sce_10389	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	Glutathione S-transferase (EC 2.5.1.18)	SCE1572_220	yes	sce_558	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	Homogentisate 1,2-dioxygenase (EC 1.13.11.5)	SCE1572_4319	yes	sce_5474	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	Maleylacetoacetate isomerase (EC 5.2.1.2)	SCE1572_7883	yes	sce_6399	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	Nitric oxide synthase oxygenase (EC 1.-.-.-)	SCE1572_2218	yes	sce_1762	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	Pterin-4-alpha-carbinolamine dehydratase (EC 4.2.1.96)	SCE1572_2342	yes	sce_1891	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3146 experimental	Queuosine biosynthesis QueD, PTPS-I	SCE1572_10281	yes	sce_9631	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	Alpha-L-arabinofuranosidase II precursor (EC 3.2.1.55)	SCE1572_3113	yes	sce_1386	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	Arabinan endo-1,5-alpha-L-arabinosidase (EC 3.2.1.99)	SCE1572_2128	yes	sce_1647	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	COG3866 Pectate lyase	SCE1572_841	yes	sce_5488	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	SCE1572_346	yes	sce_841	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	Hypothetical glycoside hydrolase, family 43, similar to arabinosidase	SCE1572_4336	yes	sce_9941	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	L-arabinose isomerase (EC 5.3.1.4)	SCE1572_2638	yes	sce_3711	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	L-arabinose transport ATP-binding protein AraG (TC 3.A.1.2.2)	SCE1572_2641	yes	sce_3708	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	L-arabinose-specific 1-epimerase (mutarotase)	SCE1572_1772	yes	sce_1086	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	L-ribulose-5-phosphate 4-epimerase (EC 5.1.3.4)	SCE1572_2639	yes	sce_3710	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	N-Acetyl-D-glucosamine ABC transport system, sugar-binding protein	SCE1572_1169	yes	sce_858	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	Ribulokinase (EC 2.7.1.16)	SCE1572_2637	yes	sce_3712	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	COG3533	rhamnogalacturonan acetylesterase	SCE1572_2132	yes	sce_1652	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-COG2515	D-cysteine desulfhydrase (EC 4.4.1.15)	SCE1572_7567	yes	sce_6422	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-COG2515	pyridoxal phosphate-dependent deaminase, putative	SCE1572_5913	yes	sce_4917	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-PTPS	2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokin	SCE1572_9665	yes	sce_8473	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-PTPS	COG1565: Uncharacterized conserved protein	SCE1572_4934	yes	sce_4145	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-PTPS	Dihydroneopterin aldolase (EC 4.1.2.25)	SCE1572_9262	yes	sce_8041	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-PTPS	Dihydropteroate synthase (EC 2.5.1.15)	SCE1572_9730	yes	sce_8532	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-PTPS	FolM Alternative dihydrofolate reductase 1	SCE1572_10968	yes	sce_9682	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-PTPS	GTP cyclohydrolase I (EC 3.5.4.16) type 1	SCE1572_11540	yes	sce_10389	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-PTPS	PTPS-like type 4	SCE1572_7553	yes	sce_6411	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-PTPS	Queuosine Biosynthesis QueE Radical SAM	SCE1572_3404	yes	sce_2891	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental-PTPS	Queuosine biosynthesis QueD, PTPS-I	SCE1572_10281	yes	sce_9631	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental - Histidine Degradation	5-formyltetrahydrofolate cyclo-ligase (EC 6.3.3.2)	SCE1572_9050	yes	sce_7810	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental - Histidine Degradation	Formiminoglutamic iminohydrolase (EC 3.5.3.13)	SCE1572_1551	yes	sce_1078	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental - Histidine Degradation	Histidine ammonia-lyase (EC 4.3.1.3)	SCE1572_8014	yes	sce_6803	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental - Histidine Degradation	Imidazolonepropionase (EC 3.5.2.7)	SCE1572_5759	yes	sce_4807	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental - Histidine Degradation	Methenyltetrahydrofolate cyclohydrolase (EC 3.5.4.9)	SCE1572_4947	yes	sce_4161	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental - Histidine Degradation	N-formylglutamate deformylase (EC 3.5.1.68)	SCE1572_5999	yes	sce_4951	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental - Histidine Degradation	Serine hydroxymethyltransferase (EC 2.1.2.1)	SCE1572_8655	yes	sce_7370	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Experimental - Histidine Degradation	Urocanate hydratase (EC 4.2.1.49)	SCE1572_10157	yes	sce_8960	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	ATP synthase C chain (EC 3.6.3.14)	SCE1572_10107	yes	sce_8925	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Adenylate cyclase (EC 4.6.1.1)	SCE1572_430	yes	sce_243	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Aspartate aminotransferase (EC 2.6.1.1)	SCE1572_689	yes	sce_1273	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Aspartate ammonia-lyase (EC 4.3.1.1)	SCE1572_545	yes	sce_352	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Biotin-protein ligase (EC 6.3.4.15)	SCE1572_3403	yes	sce_2890	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Endoribonuclease L-PSP	SCE1572_472	yes	sce_283	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	GTP-binding protein Obg	SCE1572_2454	yes	sce_2000	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Gamma-glutamyl phosphate reductase (EC 1.2.1.41)	SCE1572_4908	yes	sce_4118	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Glutamate 5-kinase (EC 2.7.2.11)	SCE1572_10703	yes	sce_9312	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Inorganic pyrophosphatase (EC 3.6.1.1)	SCE1572_1440	yes	sce_6323	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Iojap protein	SCE1572_4907	yes	sce_4117	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	L-asparaginase (EC 3.5.1.1)	SCE1572_4078	yes	sce_3404	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	L-aspartate oxidase (EC 1.4.3.16)	SCE1572_957	yes	sce_719	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	LSU ribosomal protein L21p	SCE1572_10045	yes	sce_8861	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	LSU ribosomal protein L27p	SCE1572_10044	yes	sce_8860	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	N-acetylglucosamine-1-phosphate uridyltransferase (EC 2.7.7.23)	SCE1572_7188	yes	sce_5909	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Nicotinamidase (EC 3.5.1.19)	SCE1572_3109	yes	sce_2625	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Orotate phosphoribosyltransferase (EC 2.4.2.10)	SCE1572_708	yes	sce_505	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Phosphatidate cytidylyltransferase (EC 2.7.7.41)	SCE1572_8265	yes	sce_6936	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	Translation elongation factor LepA	SCE1572_5105	yes	sce_4292	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	tRNA delta(2)-isopentenylpyrophosphate transferase (EC 2.5.1.8)	SCE1572_11322	yes	sce_10101	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	Single-Rhodanese-domain proteins	Glutathione S-transferase domain protein	SCE1572_5345	yes	sce_4471	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YebC	Aspartyl-tRNA synthetase (EC 6.1.1.12)	SCE1572_10640	yes	sce_9245	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YebC	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase (	SCE1572_1690	yes	sce_1204	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YebC	Crossover junction endodeoxyribonuclease RuvC (EC 3.1.22.4)	SCE1572_6826	yes	sce_5687	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YebC	FIG000859: hypothetical protein YebC	SCE1572_9484	yes	sce_8271	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YebC	GTP-binding and nucleic acid-binding protein YchF	SCE1572_9428	yes	sce_8215	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YebC	Holliday junction DNA helicase RuvA	SCE1572_527	yes	sce_330	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YebC	Holliday junction DNA helicase RuvB	SCE1572_9294	yes	sce_8074	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YebC	Putative Nudix hydrolase YfcD (EC 3.6.-.-)	SCE1572_3784	yes	sce_3119	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YebC	Threonyl-tRNA synthetase (EC 6.1.1.3)	SCE1572_6059	yes	sce_4871	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YhgI, YhgH	5-methyltetrahydrofolate--homocysteine methyltransferase (EC 2.1.1.1	SCE1572_5635	yes	sce_5820	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YhgI, YhgH	8-amino-7-oxononanoate synthase (EC 2.3.1.47)	SCE1572_3903	yes	sce_3232	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YhgI, YhgH	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase (EC 2.	SCE1572_1046	yes	sce_782	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YhgI, YhgH	Biotin synthesis protein bioC	SCE1572_6412	yes	sce_5430	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YhgI, YhgH	Competence protein F homolog, phosphoribosyltransferase domain	SCE1572_9377	yes	sce_8158	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YhgI, YhgH	Dethiobiotin synthetase (EC 6.3.3.3)	SCE1572_10482	yes	sce_9127	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YhgI, YhgH	Pterin-4-alpha-carbinolamine dehydratase (EC 4.2.1.96)	SCE1572_2342	yes	sce_1891	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YrdC-YciO-Sua5 protein family	ATPase YjeE, predicted to have essential role in cell wall biosynthesis	SCE1572_10671	yes	sce_9283	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YrdC-YciO-Sua5 protein family	COG0009 Sua5 subfamily, required for N6-threonylcarbamoyl adenosi	SCE1572_9021	yes	sce_7776	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YrdC-YciO-Sua5 protein family	Inactive homolog of metal-dependent proteases, putative molecular cha	SCE1572_2318	yes	sce_1865	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YrdC-YciO-Sua5 protein family	Peptide chain release factor 1	SCE1572_11293	yes	sce_10076	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YrdC-YciO-Sua5 protein family	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)	SCE1572_7710	yes	sce_6542	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YrdC-YciO-Sua5 protein family	Rossmann fold nucleotide-binding protein Smf possibly involved in DN	SCE1572_6868	yes	sce_5731	yes

A and B	Miscellaneous	Plant-Prokaryote DOE project	YrdC-YciO-Sua5 protein family	Serine hydroxymethyltransferase (EC 2.1.2.1)	SCE1572_8655	yes	sce_7370	yes
A and B	Miscellaneous	Plant-Prokaryote DOE project	YrdC-YciO-Sua5 protein family	YgjD/Kae1/Qri7 family, required for N6-threonylcarbamoyl adenosine	SCE1572_2254	yes	sce_1799	yes
A	Miscellaneous	Plant-Prokaryote DOE project	At3g50560	Short-chain dehydrogenase, associated with 2-hydroxychromene-2-carl	SCE1572_389	yes		no
A	Miscellaneous	Plant-Prokaryote DOE project	COG3533	Alpha-xylosidase (EC 3.2.1.-)	SCE1572_2924	yes		no
A	Miscellaneous	Plant-Prokaryote DOE project	COG3533	L-arabinose transport system permease protein (TC 3.A.1.2.2)	SCE1572_3121	yes		no
A	Miscellaneous	Plant-Prokaryote DOE project	COG3533	L-arabinose-binding periplasmic protein precursor AraF (TC 3.A.1.2.2)	SCE1572_80	yes		no
A	Miscellaneous	Plant-Prokaryote DOE project	COG3533	Putative glycosyl hydrolase of unknown function (DUF1680)	SCE1572_2866	yes		no
B	Miscellaneous	Plant-Prokaryote DOE project	At1g52510 AT4G12830 (COG0596)	3-beta hydroxysteroid dehydrogenase/isomerase family protein in hypothetical gene cluster		no	sce_2397	yes
B	Miscellaneous	Plant-Prokaryote DOE project	At5g63420	Metallo-beta-lactamase family protein, RNA-specific		no	sce_4676	yes
B	Miscellaneous	Plant-Prokaryote DOE project	COG0523	Zinc ABC transporter, inner membrane permease protein ZnuB		no	sce_8066	yes
B	Miscellaneous	Plant-Prokaryote DOE project	COG4319	Alternative dihydrofolate reductase 3		no	sce_5172	yes
B	Miscellaneous	Plant-Prokaryote DOE project	Iojap	LSU m3Psi1915 methyltransferase RlmH		no	sce_4116	yes
B	Miscellaneous	Plant-Prokaryote DOE project	Scaffold proteins for [4Fe-4S] cluster assembly (MRP family)	Scaffold protein for [4Fe-4S] cluster assembly ApbC, MRP-like		no	sce_8089	yes
A and B	Miscellaneous	no subcategory	Broadly distributed proteins not in subsystems	UPF0225 protein YchJ	SCE1572_960	yes	sce_722	yes
A and B	Miscellaneous	no subcategory	Broadly distributed proteins not in subsystems	YpfJ protein, zinc metalloprotease superfamily	SCE1572_9557	yes	sce_8334	yes
A and B	Miscellaneous	no subcategory	DedA family of inner membrane proteins	DedA protein	SCE1572_8416	yes	sce_7177	yes
A and B	Miscellaneous	no subcategory	Muconate lactonizing enzyme family	Muconate cycloisomerase (EC 5.5.1.1)	SCE1572_3882	yes	sce_3206	yes
A and B	Miscellaneous	no subcategory	Muconate lactonizing enzyme family	O-succinylbenzoate synthase (EC 4.2.1.113)	SCE1572_4058	yes	sce_3383	yes
A and B	Miscellaneous	no subcategory	Phosphoglycerate mutase protein family	2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4	SCE1572_1634	yes	sce_1168	yes
A and B	Miscellaneous	no subcategory	Phosphoglycerate mutase protein family	Alpha-ribazole-5'-phosphate phosphatase (EC 3.1.3.73)	SCE1572_8977	yes	sce_7736	yes
A and B	Miscellaneous	no subcategory	Phosphoglycerate mutase protein family	Carboxyl-terminal protease (EC 3.4.21.102)	SCE1572_4325	yes	sce_7224	yes
A and B	Miscellaneous	no subcategory	YbbK	Inner membrane protein YqiK	SCE1572_7101	yes	sce_5869	yes
A and B	Miscellaneous	no subcategory	YbbK	Putative membrane-bound ClpP-class protease associated with aq_911	SCE1572_4393	yes	sce_5976	yes
A and B	Miscellaneous	no subcategory	YbbK	Putative stomatin/prohibitin-family membrane protease subunit aq_911	SCE1572_9441	yes	sce_8229	yes
A and B	Miscellaneous	no subcategory	ZZ gjo need homes	Lipid A export ATP-binding/permease protein MsbA	SCE1572_19	yes	sce_19	yes
A and B	Miscellaneous	no subcategory	ZZ gjo need homes	Naقي antiporter	SCE1572_9565	yes	sce_8354	yes
A and B	Miscellaneous	no subcategory	ZZ gjo need homes	Phosphocarrier protein kinase/phosphorylase, nitrogen regulation associ	SCE1572_10280	yes	sce_9633	yes
A and B	Miscellaneous	no subcategory	ZZ gjo need homes	Proton/glutamate symport protein	SCE1572_4740	yes	sce_3961	yes
A and B	Miscellaneous	no subcategory	ZZ gjo need homes	Putative heat shock protein YegD	SCE1572_10346	yes	sce_9037	yes
A and B	Miscellaneous	no subcategory	ZZ gjo need homes	Sodium/glutamate symport protein	SCE1572_4740	yes	sce_3961	yes
A	Miscellaneous	no subcategory	Broadly distributed proteins not in subsystems	Putative oxidoreductase YncB	SCE1572_859	yes		no
A	Miscellaneous	no subcategory	ZZ gjo need homes 2	UPF0182 protein AF1421	SCE1572_3617	yes		no
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	Acetylornithine deacetylase/Succinyl-diaminopimelate desuccinylase an	SCE1572_581	yes	sce_386	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	Cell division protein FtsX	SCE1572_9306	yes	sce_8086	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	Twitching motility protein PilT	SCE1572_5709	yes	sce_4762	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	Two-component sensor PilS	SCE1572_8313	yes	sce_6995	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	Type IV fimbrial assembly protein PilC	SCE1572_8314	yes	sce_6996	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	Type IV fimbrial assembly, ATPase PilB	SCE1572_3272	yes	sce_2767	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	Type IV fimbrial biogenesis protein PilY1	SCE1572_2706	yes	sce_2244	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	Type IV pilin PilA	SCE1572_3293	yes	sce_2787	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	gliding motility protein GldF	SCE1572_3226	yes	sce_2718	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	gliding motility protein GldG	SCE1572_3342	yes	sce_2838	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	gliding motility protein MglA	SCE1572_630	yes	sce_438	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	twitching motility protein PilH	SCE1572_3219	yes	sce_2451	yes
A and B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	type 4 fimbrial biogenesis protein FimU	SCE1572_2710	yes	sce_2249	yes
B	Motility and Chemotaxis	Social motility and nonflagellar swimming in ba	Bacterial motility:Gliding	Type II secretory pathway, ATPase PulE/Tfp pilus assembly pathway, ATPase PilB		no	sce_5100	yes
A and B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Chemotaxis protein CheD	SCE1572_2796	yes	sce_2449	yes
A and B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Chemotaxis protein CheV (EC 2.7.3.-)	SCE1572_3987	yes	sce_3318	yes
A and B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	SCE1572_374	yes	sce_206	yes
A and B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar mot	SCE1572_1254	yes	sce_904	yes
A and B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Chemotaxis response regulator protein-glutamate methylesterase CheB	SCE1572_2235	yes	sce_1783	yes
A and B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Dipeptide-binding ABC transporter, periplasmic substrate-binding comp	SCE1572_4504	yes	sce_3765	yes
A and B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Maltose/maltodextrin ABC transporter, substrate binding periplasmic pr	SCE1572_6789	yes	sce_5648	yes
A and B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Positive regulator of CheA protein activity (CheW)	SCE1572_2231	yes	sce_1365	yes
A and B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Ribose ABC transporter, periplasmic ribose-binding protein RbsB (TC 3	SCE1572_7545	yes	sce_9213	yes
A and B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Signal transduction histidine kinase CheA (EC 2.7.3.-)	SCE1572_824	yes	sce_871	yes
A	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Galactose/methyl galactoside ABC transport system, D-galactose-bindin	SCE1572_213	yes		no
A	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Methyl-accepting chemotaxis protein I (serine chemoreceptor protein)	SCE1572_2800	yes		no
B	Motility and Chemotaxis	no subcategory	Bacterial Chemotaxis	Flagellar motor switch protein FliN		no	sce_6182	yes
A and B	Nitrogen Metabolism	no subcategory	Ammonia assimilation	Ammonium transporter	SCE1572_3159	yes	sce_2654	yes
A and B	Nitrogen Metabolism	no subcategory	Ammonia assimilation	Ammonium transporter family	SCE1572_9483	yes	sce_8270	yes
A and B	Nitrogen Metabolism	no subcategory	Ammonia assimilation	Glutamate synthase [NADPH] large chain (EC 1.4.1.13)	SCE1572_6809	yes	sce_5669	yes
A and B	Nitrogen Metabolism	no subcategory	Ammonia assimilation	Glutamate synthase [NADPH] small chain (EC 1.4.1.13)	SCE1572_5230	yes	sce_4385	yes
A and B	Nitrogen Metabolism	no subcategory	Ammonia assimilation	Glutamate-ammonia-ligase adenylyltransferase (EC 2.7.7.42)	SCE1572_2412	yes	sce_1966	yes
A and B	Nitrogen Metabolism	no subcategory	Ammonia assimilation	Glutamine synthetase type I (EC 6.3.1.2)	SCE1572_9287	yes	sce_8068	yes
A and B	Nitrogen Metabolism	no subcategory	Ammonia assimilation	Nitrogen regulation protein NR(I)	SCE1572_429	yes	sce_2532	yes
A and B	Nitrogen Metabolism	no subcategory	Ammonia assimilation	Nitrogen regulatory protein P-II	SCE1572_9288	yes	sce_8069	yes
A and B	Nitrogen Metabolism	no subcategory	Ammonia assimilation	[Protein-PII] uridylyltransferase (EC 2.7.7.59)	SCE1572_4206	yes	sce_3524	yes
A and B	Nitrogen Metabolism	no subcategory	Denitrification	Copper-containing nitrite reductase (EC 1.7.2.1)	SCE1572_4092	yes	sce_3418	yes
A and B	Nitrogen Metabolism	no subcategory	Denitrification	Nitric-oxide reductase (EC 1.7.99.7), quinol-dependent	SCE1572_1862	yes	sce_3679	yes
A and B	Nitrogen Metabolism	no subcategory	Denitrification	Nitrous oxide reductase maturation protein NosF (ATPase)	SCE1572_1950	yes	sce_848	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Assimilatory nitrate reductase large subunit (EC:1.7.99.4)	SCE1572_4421	yes	sce_1282	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Cytochrome c nitrite reductase, small subunit NrfH	SCE1572_2082	yes	sce_1594	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Cytochrome c552 precursor (EC 1.7.2.2)	SCE1572_2081	yes	sce_1593	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Nitrate ABC transporter, ATP-binding protein	SCE1572_5391	yes	sce_4516	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Nitrate ABC transporter, nitrate-binding protein	SCE1572_5394	yes	sce_4519	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Nitrate ABC transporter, permease protein	SCE1572_5393	yes	sce_4518	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Nitrate/nitrite response regulator protein	SCE1572_7300	yes	sce_3004	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Nitrate/nitrite transporter	SCE1572_4983	yes	sce_3009	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Nitrite reductase [NAD(P)H] large subunit (EC 1.7.1.4)	SCE1572_4684	yes	sce_1283	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Nitrite reductase [NAD(P)H] small subunit (EC 1.7.1.4)	SCE1572_10860	yes	sce_9488	yes
A and B	Nitrogen Metabolism	no subcategory	Nitric oxide synthase	Nitric oxide synthase oxygenase (EC 1.-.-.-)	SCE1572_2218	yes	sce_1762	yes
A and B	Nitrogen Metabolism	no subcategory	Nitric oxide synthase	putative cytochrome P450 hydroxylase	SCE1572_137	yes	sce_133	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrosative stress	Anaerobic nitric oxide reductase transcription regulator NorR	SCE1572_1974	yes	sce_608	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrosative stress	Hydroxylamine reductase (EC 1.7.-.-)	SCE1572_1192	yes	sce_866	yes
A and B	Nitrogen Metabolism	no subcategory	Nitrosative stress	Nitric-oxide reductase (EC 1.7.99.7), quinol-dependent	SCE1572_1862	yes	sce_3679	yes
A	Nitrogen Metabolism	no subcategory	Allantoin Utilization	2-hydroxy-3-oxopropionate reductase (EC 1.1.1.60)	SCE1572_5693	yes		no
A	Nitrogen Metabolism	no subcategory	Allantoin Utilization	Allantoicase (EC 3.5.3.4)	SCE1572_7760	yes		no
A	Nitrogen Metabolism	no subcategory	Cyanate hydrolysis	Cyanate hydratase (EC 4.2.1.104)	SCE1572_2062	yes		no
A	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Nitrite transporter from formate/nitrite family	SCE1572_2834	yes		no
B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Nitrate reductase cytochrome c550-type subunit		no	sce_5256	yes
B	Nitrogen Metabolism	no subcategory	Nitrate and nitrite ammonification	Periplasmic nitrate reductase precursor (EC 1.7.99.4)		no	sce_5257	yes
B	Nitrogen Metabolism	no subcategory	Nitrosative stress	Nitric oxide-dependent regulator DnrN or NorA		no	sce_7685	yes
A and B	Nucleosides and Nucleotides	Detoxification	Housecleaning nucleoside triphosphate pyrophosphatases	5-nucleotidase SurE (EC 3.1.3.5)	SCE1572_4021	yes	sce_3349	yes
A and B	Nucleosides and Nucleotides	Detoxification	Housecleaning nucleoside triphosphate pyrophosphatases	Deoxyuridine 5'-triphosphate nucleotidohydrolase (EC 3.6.1.23)	SCE1572_4602	yes	sce_3838	yes
A and B	Nucleosides and Nucleotides	Detoxification	Housecleaning nucleoside triphosphate pyrophosphatases	Nucleoside 5-triphosphatase RdgB (dHAPTP, dITP, XTP-specific) (EC	SCE1572_10103	yes	sce_8921	yes
A and B	Nucleosides and Nucleotides	Detoxification	Nucleoside triphosphate pyrophosphohydrolase MazG	Nucleoside triphosphate pyrophosphohydrolase MazG	SCE1572_6339	yes	sce_5373	yes
A and B	Nucleosides and Nucleotides	Detoxification	Nudix proteins (nucleoside triphosphate hydrolases)	5-methyl-dCTP pyrophosphohydrolase (EC 3.6.1.-)	SCE1572_10894	yes	sce_9529	yes
A and B	Nucleosides and Nucleotides	Detoxification	Nudix proteins (nucleoside triphosphate hydrolases)	ADP-ribose pyrophosphatase (EC 3.6.1.13)	SCE1572_3103	yes	sce_2621	yes
A and B	Nucleosides and Nucleotides	Detoxification	Nudix proteins (nucleoside triphosphate hydrolases)	Deoxyuridine 5'-triphosphate nucleotidohydrolase (EC 3.6.1.23)	SCE1572_4602	yes	sce_3838	yes
A and B	Nucleosides and Nucleotides	Detoxification	Nudix proteins (nucleoside triphosphate hydrolases)	Hypothetical nudix hydrolase YeaB	SCE1572_6253	yes	sce_5265	yes
A and B	Nucleosides and Nucleotides	Detoxification	Nudix proteins (nucleoside triphosphate hydrolases)	Mutator mutT protein (7,8-dihydro-8-oxoguanine-triphosphatase) (EC 3	SCE1572_525	yes	sce_328	yes
A and B	Nucleosides and Nucleotides	Detoxification	Nudix proteins (nucleoside triphosphate hydrolases)	NADH pyrophosphatase (EC 3.6.1.22)	SCE1572_1391	yes	sce_4892	yes
A and B	Nucleosides and Nucleotides	Detoxification	Nudix proteins (nucleoside triphosphate hydrolases)	Nudix hydrolase family protein YffH	SCE1572_7287	yes	sce_5990	yes
A and B	Nucleosides and Nucleotides	Detoxification	Nudix proteins (nucleoside triphosphate hydrolases)	Putative Nudix hydrolase YfcD (EC 3.6.-.-)	SCE1572_3784	yes	sce_3119	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Adenylosuccinate lyase (EC 4.3.2.2)	SCE1572_10661	yes	sce_9266	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Amidophosphoribosyltransferase (EC 2.4.2.14)	SCE1572_5789	yes	sce_4836	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	IMP cyclohydrolase (EC 3.5.4.10)	SCE1572_4217	yes	sce_3535	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Phosphoribosylamine--glycine ligase (EC 6.3.4.13)	SCE1572_11277	yes	sce_10061	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Phosphoribosylaminoimidazole carboxylase ATPase subunit (EC 4.1.1.2	SCE1572_2474	yes	sce_2015	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Phosphoribosylaminoimidazole carboxylase catalytic subunit (EC 4.1.1.	SCE1572_2473	yes	sce_2014	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Phosphoribosylaminoimidazole-succinocarboxamide synthase (EC 6.3.2	SCE1572_1661	yes	sce_1176	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Phosphoribosylaminoimidazolecarboxamide formyltransferase (EC 2.1.	SCE1572_4217	yes	sce_3535	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Phosphoribosylformylglycinamidine cyclo-ligase (EC 6.3.3.1)	SCE1572_10893	yes	sce_9525	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Phosphoribosylformylglycinamidine synthase, glutamine amidotransfera	SCE1572_9392	yes	sce_264	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Phosphoribosylformylglycinamidine synthase, synthetase subunit (EC 6	SCE1572_8608	yes	sce_264	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Phosphoribosylglycinamide formyltransferase (EC 2.1.2.2)	SCE1572_10890	yes	sce_9522	yes
A and B	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1)	SCE1572_8154	yes	sce_7319	yes
A and B	Nucleosides and Nucleotides	Purines	GMP synthase	GMP synthase [glutamine-hydrolyzing], ATP pyrophosphatase subunit	SCE1572_4911	yes	sce_4121	yes
A and B	Nucleosides and Nucleotides	Purines	GMP synthase	GMP synthase [glutamine-hydrolyzing], amidotransferase subunit (EC 6	SCE1572_4911	yes	sce_4121	yes
A and B	Nucleosides and Nucleotides	Purines	Purine Utilization	Cytosine/purine/uracil/thiamine/allantoin permease family protein	SCE1572_3449	yes	sce_2941	yes
A and B	Nucleosides and Nucleotides	Purines	Purine Utilization	Guanine deaminase (EC 3.5.4.3)	SCE1572_1709	yes	sce_1223	yes
A and B	Nucleosides and Nucleotides	Purines	Purine Utilization	Xanthine and CO dehydrogenases maturation factor, XdhC/CoxF family	SCE1572_6273	yes	sce_3740	yes
A and B	Nucleosides and Nucleotides	Purines	Purine Utilization	Xanthine dehydrogenase, FAD binding subunit (EC 1.17.1.4)	SCE1572_7791	yes	sce_6597	yes
A and B	Nucleosides and Nucleotides	Purines	Purine Utilization	Xanthine dehydrogenase, molybdenum binding subunit (EC 1.17.1.4)	SCE1572_7793	yes	sce_6599	yes
A and B	Nucleosides and Nucleotides	Purines	Purine Utilization	Xanthine permease	SCE1572_3511	yes	sce_2994	yes
A and B	Nucleosides and Nucleotides	Purines	Purine Utilization	XdhC protein (assists in molybdopterin insertion into xanthine dehydrog	SCE1572_7795	yes	sce_6601	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	5'-nucleotidase (EC 3.1.3.5)	SCE1572_7592	yes	sce_648	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Adenine phosphoribosyltransferase (EC 2.4.2.7)	SCE1572_4020	yes	sce_3348	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Adenosine deaminase (EC 3.5.4.4)	SCE1572_11270	yes	sce_10053	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Adenylate kinase (EC 2.7.4.3)	SCE1572_10066	yes	sce_8883	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Adenylosuccinate lyase (EC 4.3.2.2)	SCE1572_10661	yes	sce_9266	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Adenylosuccinate synthetase (EC 6.3.4.4)	SCE1572_11191	yes	sce_2236	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	GMP synthase [glutamine-hydrolyzing] (EC 6.3.5.2)	SCE1572_7720	yes	sce_6548	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	GMP synthase [glutamine-hydrolyzing], ATP pyrophosphatase subunit	SCE1572_4911	yes	sce_4121	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	GMP synthase [glutamine-hydrolyzing], amidotransferase subunit (EC 6	SCE1572_4911	yes	sce_4121	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Guanine deaminase (EC 3.5.4.3)	SCE1572_1709	yes	sce_1223	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Guanylate kinase (EC 2.7.4.8)	SCE1572_5012	yes	sce_4214	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Hypoxanthine-guanine phosphoribosyltransferase (EC 2.4.2.8)	SCE1572_10500	yes	sce_9148	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)	SCE1572_110	yes	sce_98	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Polyphosphate kinase (EC 2.7.4.1)	SCE1572_1304	yes	sce_939	yes
A and B	Nucleosides and Nucleotides	Purines	Purine conversions	Purine nucleoside phosphorylase (EC 2.4.2.1)	SCE1572_7736	yes	sce_6561	yes
A and B	Nucleosides and Nucleotides	Purines	Xanthine Metabolism in Bacteria	Xanthine permease	SCE1572_3511	yes	sce_2994	yes
A	Nucleosides and Nucleotides	Purines	De Novo Purine Biosynthesis	Phosphoribosylformylglycinamidine synthase, PurS subunit (EC 6.3.5.3	SCE1572_1662	yes		no
A	Nucleosides and Nucleotides	Purines	Purine Utilization	Periplasmic aromatic aldehyde oxidoreductase, FAD binding subunit Ya	SCE1572_3488	yes		no
A	Nucleosides and Nucleotides	Purines	Purine conversions	2',3'-cyclic-nucleotide 2'-phosphodiesterase (EC 3.1.4	SCE1572_6536	yes		no
B	Nucleosides and Nucleotides	Purines	GMP synthase	GMP synthase (EC 6.3.5.2)		no	sce_6980	yes
B	Nucleosides and Nucleotides	Purines	Purine conversions	Nucleoside diphosphate kinase (EC 2.7.4.6)		no	sce_3313	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	De Novo Pyrimidine Synthesis	Aspartate carbamoyltransferase (EC 2.1.3.2)	SCE1572_5090	yes	sce_4278	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	De Novo Pyrimidine Synthesis	Carbamoyl-phosphate synthase large chain (EC 6.3.5.5)	SCE1572_3193	yes	sce_2685	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	De Novo Pyrimidine Synthesis	Carbamoyl-phosphate synthase small chain (EC 6.3.5.5)	SCE1572_3194	yes	sce_2686	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	De Novo Pyrimidine Synthesis	Dihydroorotase (EC 3.5.2.3)	SCE1572_5734	yes	sce_4784	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	De Novo Pyrimidine Synthesis	Dihydroorotate dehydrogenase (EC 1.3.3.1)	SCE1572_5922	yes	sce_4925	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	De Novo Pyrimidine Synthesis	Orotate phosphoribosyltransferase (EC 2.4.2.10)	SCE1572_708	yes	sce_505	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	De Novo Pyrimidine Synthesis	Orotidine 5'-phosphate decarboxylase (EC 4.1.1.23)	SCE1572_4935	yes	sce_4146	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	De Novo Pyrimidine Synthesis	Pyrimidine operon regulatory protein PyrR	SCE1572_5089	yes	sce_4277	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	De Novo Pyrimidine Synthesis	Uracil phosphoribosyltransferase (EC 2.4.2.9)	SCE1572_3269	yes	sce_2764	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	Pyrimidine utilization	Dihydropyrimidinase (EC 3.5.2.2)	SCE1572_8401	yes	sce_7161	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	Pyrimidine utilization	Dihydropyrimidine dehydrogenase [NADP] (EC 1.3.1.2)	SCE1572_8399	yes	sce_7159	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	Pyrimidine utilization	Pyridine nucleotide-disulphide oxidoreductase associated with reductive	SCE1572_8400	yes	sce_7160	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	pyrimidine conversions	5'-nucleotidase (EC 3.1.3.5)	SCE1572_7592	yes	sce_648	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	pyrimidine conversions	CTP synthase (EC 6.3.4.2)	SCE1572_6582	yes	sce_5517	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	pyrimidine conversions	Cytidine deaminase (EC 3.5.4.5)	SCE1572_7737	yes	sce_6562	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	pyrimidine conversions	Cytidylate kinase (EC 2.7.4.14)	SCE1572_8933	yes	sce_7700	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	pyrimidine conversions	Purine nucleoside phosphorylase (EC 2.4.2.1)	SCE1572_7736	yes	sce_6561	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	pyrimidine conversions	Pyrimidine-nucleoside phosphorylase (EC 2.4.2.2)	SCE1572_3232	yes	sce_2724	yes

A and B	Nucleosides and Nucleotides	Pyrimidines	pyrimidine conversions	Thioredoxin reductase (EC 1.8.1.9)	SCE1572_1090	yes	sce_2388	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	pyrimidine conversions	Thymidylate kinase (EC 2.7.4.9)	SCE1572_1302	yes	sce_937	yes
A and B	Nucleosides and Nucleotides	Pyrimidines	pyrimidine conversions	Uracil phosphoribosyltransferase (EC 2.4.2.9)	SCE1572_3269	yes	sce_2764	yes
A	Nucleosides and Nucleotides	Pyrimidines	Pyrimidine utilization	Predicted reductase RutE in novel pyrimidine catabolism pathway	SCE1572_6620	yes		no
A and B	Nucleosides and Nucleotides	no subcategory	Adenosyl nucleosidases	Purine nucleoside phosphorylase (EC 2.4.2.1)	SCE1572_7736	yes	sce_6561	yes
A and B	Nucleosides and Nucleotides	no subcategory	Hydantoin metabolism	Deacetylases, including yeast histone deacetylase and acetoin utilization	SCE1572_8232	yes	sce_6902	yes
A and B	Nucleosides and Nucleotides	no subcategory	Hydantoin metabolism	Dihydropyrimidinase (EC 3.5.2.2)	SCE1572_8401	yes	sce_7161	yes
A and B	Nucleosides and Nucleotides	no subcategory	Hydantoin metabolism	N-methylhydantoinase (ATP-hydrolyzing) (EC 3.5.2.14)	SCE1572_3451	yes	sce_2943	yes
A and B	Nucleosides and Nucleotides	no subcategory	Hydantoin metabolism	N-methylhydantoinase A (EC 3.5.2.14)	SCE1572_3453	yes	sce_2945	yes
A and B	Nucleosides and Nucleotides	no subcategory	Hydantoin metabolism	N-methylhydantoinase B (EC 3.5.2.14)	SCE1572_3452	yes	sce_2944	yes
A and B	Nucleosides and Nucleotides	no subcategory	Ribonucleotide reduction	Ribonucleotide reductase of class II (coenzyme B12-dependent) (EC 1.	SCE1572_623	yes	sce_431	yes
A and B	Nucleosides and Nucleotides	no subcategory	Ribonucleotide reduction	Ribonucleotide reductase of class Ia (aerobic), alpha subunit (EC 1.17.4	SCE1572_5170	yes	sce_4336	yes
A and B	Nucleosides and Nucleotides	no subcategory	Ribonucleotide reduction	Ribonucleotide reductase of class Ia (aerobic), beta subunit (EC 1.17.4.	SCE1572_5171	yes	sce_4337	yes
A and B	Nucleosides and Nucleotides	no subcategory	Ribonucleotide reduction	Ribonucleotide reductase transcriptional regulator NrdR	SCE1572_5079	yes	sce_4268	yes
A and B	Phages, Prophages, Transposable el	Phages, Prophages	Phage tail fiber proteins	Phage tail fiber protein	SCE1572_3192	yes	sce_2684	yes
A	Phages, Prophages, Transposable el	Phages, Prophages	Phage tail fiber proteins	Phage tail fibers	SCE1572_5948	yes		no
A	Phages, Prophages, Transposable el	Phages, Prophages	Phage tail proteins	Phage minor tail protein	SCE1572_10420	yes		no
B	Phages, Prophages, Transposable el	Phages, Prophages	Phage replication	DNA primase/helicase, phage-associated		no	sce_4552	yes
A and B	Phages, Prophages, Transposable el	no subcategory	Integrons	Integron integrase IntIPac	SCE1572_247	yes	sce_515	yes
A and B	Phosphorus Metabolism	no subcategory	High affinity phosphate transporter and control of PHO regulon	Phosphate ABC transporter, periplasmic phosphate-binding protein PstS	SCE1572_3980	yes	sce_3309	yes
A and B	Phosphorus Metabolism	no subcategory	High affinity phosphate transporter and control of PHO regulon	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)	SCE1572_783	yes	sce_437	yes
A and B	Phosphorus Metabolism	no subcategory	High affinity phosphate transporter and control of PHO regulon	Phosphate regulon transcriptional regulatory protein PhoB (SphR)	SCE1572_1238	yes	sce_3311	yes
A and B	Phosphorus Metabolism	no subcategory	High affinity phosphate transporter and control of PHO regulon	Phosphate transport ATP-binding protein PstB (TC 3.A.1.7.1)	SCE1572_3977	yes	sce_3306	yes
A and B	Phosphorus Metabolism	no subcategory	High affinity phosphate transporter and control of PHO regulon	Phosphate transport system permease protein PstA (TC 3.A.1.7.1)	SCE1572_3978	yes	sce_3307	yes
A and B	Phosphorus Metabolism	no subcategory	High affinity phosphate transporter and control of PHO regulon	Phosphate transport system permease protein PstC (TC 3.A.1.7.1)	SCE1572_3979	yes	sce_3308	yes
A and B	Phosphorus Metabolism	no subcategory	High affinity phosphate transporter and control of PHO regulon	Phosphate transport system regulatory protein PhoU	SCE1572_3976	yes	sce_3305	yes
A and B	Phosphorus Metabolism	no subcategory	High affinity phosphate transporter and control of PHO regulon	Polyphosphate kinase (EC 2.7.4.1)	SCE1572_1304	yes	sce_939	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Inorganic pyrophosphatase (EC 3.6.1.1)	SCE1572_1440	yes	sce_6323	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Phosphatase, Ppx/GppA family	SCE1572_2348	yes	sce_1898	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Phosphate ABC transporter, periplasmic phosphate-binding protein PstS	SCE1572_3980	yes	sce_3309	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)	SCE1572_783	yes	sce_437	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Phosphate regulon transcriptional regulatory protein PhoB (SphR)	SCE1572_1238	yes	sce_3311	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Phosphate starvation-inducible protein PhoH, predicted ATPase	SCE1572_10090	yes	sce_8907	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Phosphate transport ATP-binding protein PstB (TC 3.A.1.7.1)	SCE1572_3977	yes	sce_3306	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Phosphate transport regulator (distant homolog of PhoU)	SCE1572_4593	yes	sce_3732	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Phosphate transport system permease protein PstA (TC 3.A.1.7.1)	SCE1572_3978	yes	sce_3307	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Phosphate transport system permease protein PstC (TC 3.A.1.7.1)	SCE1572_3979	yes	sce_3308	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Phosphate transport system regulatory protein PhoU	SCE1572_3976	yes	sce_3305	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Polyphosphate kinase (EC 2.7.4.1)	SCE1572_1304	yes	sce_939	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Predicted ATPase related to phosphate starvation-inducible protein Pho	SCE1572_3906	yes	sce_3235	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Probable low-affinity inorganic phosphate transporter	SCE1572_4594	yes	sce_3731	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Pyrophosphate-energized proton pump (EC 3.6.1.1)	SCE1572_1526	yes	sce_1048	yes
A and B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Soluble pyridine nucleotide transhydrogenase (EC 1.6.1.1)	SCE1572_2691	yes	sce_2231	yes
A and B	Phosphorus Metabolism	no subcategory	Polyphosphate	Polyphosphate glucokinase (EC 2.7.1.63)	SCE1572_1006	yes	sce_759	yes
A and B	Phosphorus Metabolism	no subcategory	Polyphosphate	Polyphosphate kinase (EC 2.7.4.1)	SCE1572_1304	yes	sce_939	yes
B	Phosphorus Metabolism	no subcategory	Phosphate metabolism	Exopolyphosphatase (EC 3.6.1.11)		no	sce_6277	yes
A and B	Potassium metabolism	no subcategory	Potassium homeostasis	FKBP-type peptidyl-prolyl cis-trans isomerase SlyD (EC 5.2.1.8)	SCE1572_9303	yes	sce_8083	yes
A and B	Potassium metabolism	no subcategory	Potassium homeostasis	Glutathione-regulated potassium-efflux system protein KefC	SCE1572_7336	yes	sce_6121	yes
A and B	Potassium metabolism	no subcategory	Potassium homeostasis	Kup system potassium uptake protein	SCE1572_2381	yes	sce_1932	yes
A and B	Potassium metabolism	no subcategory	Potassium homeostasis	Large-conductance mechanosensitive channel	SCE1572_9051	yes	sce_7812	yes
A and B	Potassium metabolism	no subcategory	Potassium homeostasis	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)	SCE1572_497	yes	sce_1499	yes
A and B	Potassium metabolism	no subcategory	Potassium homeostasis	Potassium efflux system KefA protein	SCE1572_3426	yes	sce_1600	yes
A and B	Potassium metabolism	no subcategory	Potassium homeostasis	Potassium-transporting ATPase A chain (EC 3.6.3.12) (TC 3.A.3.7.1)	SCE1572_2016	yes	sce_1496	yes
A and B	Potassium metabolism	no subcategory	Potassium homeostasis	Potassium-transporting ATPase B chain (EC 3.6.3.12) (TC 3.A.3.7.1)	SCE1572_2017	yes	sce_1497	yes
A and B	Potassium metabolism	no subcategory	Potassium homeostasis	Potassium-transporting ATPase C chain (EC 3.6.3.12) (TC 3.A.3.7.1)	SCE1572_2018	yes	sce_1498	yes
A and B	Potassium metabolism	no subcategory	Potassium homeostasis	Trk system potassium uptake protein TrkA	SCE1572_4368	yes	sce_3654	yes
B	Potassium metabolism	no subcategory	Hyperosmotic potassium uptake	Potassium uptake protein TrkH		no	sce_3655	yes
A and B	Protein Metabolism	Protein biosynthesis	Programmed frameshift	Peptide chain release factor 2	SCE1572_2275	yes	sce_1820	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L10p (P0)	SCE1572_657	yes	sce_463	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L11p (L12e)	SCE1572_655	yes	sce_461	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L13p (L13Ae)	SCE1572_9499	yes	sce_8285	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L14p (L23e)	SCE1572_10077	yes	sce_8894	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L15p (L27Ae)	SCE1572_10068	yes	sce_8885	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L16p (L10e)	SCE1572_10080	yes	sce_8897	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L17p	SCE1572_10058	yes	sce_8875	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L18p (L5e)	SCE1572_10071	yes	sce_8888	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L19p	SCE1572_3327	yes	sce_2822	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L1p (L10Ae)	SCE1572_656	yes	sce_462	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L20p	SCE1572_9326	yes	sce_8106	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L21p	SCE1572_10045	yes	sce_8861	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L22p (L17e)	SCE1572_10082	yes	sce_8899	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L23p (L23Ae)	SCE1572_1312	yes	sce_948	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L24p (L26e)	SCE1572_10076	yes	sce_8893	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L25p	SCE1572_8999	yes	sce_7764	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L27p	SCE1572_10044	yes	sce_8860	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L28p	SCE1572_6001	yes	sce_4953	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L29p (L35e)	SCE1572_10079	yes	sce_8896	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L2p (L8e)	SCE1572_1313	yes	sce_949	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L30p (L7e)	SCE1572_10069	yes	sce_8886	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L31p	SCE1572_11291	yes	sce_10074	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L32p	SCE1572_5086	yes	sce_4274	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L33p	SCE1572_651	yes	sce_458	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L34p	SCE1572_3332	yes	sce_2828	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L35p	SCE1572_9327	yes	sce_8107	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L36p	SCE1572_10064	yes	sce_8881	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L3p (L3e)	SCE1572_2664	yes	sce_2216	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L4p (L1e)	SCE1572_1311	yes	sce_947	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L5p (L11e)	SCE1572_10075	yes	sce_8892	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L6p (L9e)	SCE1572_10072	yes	sce_8889	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L7/L12 (P1/P2)	SCE1572_658	yes	sce_464	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome LSU bacterial	LSU ribosomal protein L9p	SCE1572_9003	yes	sce_7768	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S10p (S20e)	SCE1572_1310	yes	sce_946	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S11p (S14e)	SCE1572_10062	yes	sce_8879	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S12p (S23e)	SCE1572_1306	yes	sce_942	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S13p (S18e)	SCE1572_10063	yes	sce_8880	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S14p (S29e)	SCE1572_10074	yes	sce_8891	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S15p (S13e)	SCE1572_6131	yes	sce_5076	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S16p	SCE1572_6010	yes	sce_4961	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S17p (S11e)	SCE1572_10078	yes	sce_8895	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S18p	SCE1572_9002	yes	sce_7767	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S19p (S15e)	SCE1572_1314	yes	sce_950	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S1p	SCE1572_4258	yes	sce_3559	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S20p	SCE1572_10975	yes	sce_9696	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S21p	SCE1572_2397	yes	sce_1951	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S2p (SAe)	SCE1572_4193	yes	sce_3515	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S3p (S3e)	SCE1572_10081	yes	sce_8898	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S4p (S9e)	SCE1572_4119	yes	sce_3469	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S5p (S2e)	SCE1572_10070	yes	sce_8887	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S6p	SCE1572_9001	yes	sce_282	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S7p (S5e)	SCE1572_1307	yes	sce_943	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S8p (S15Ae)	SCE1572_10073	yes	sce_8890	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome SSU bacterial	SSU ribosomal protein S9p (S16e)	SCE1572_9498	yes	sce_8284	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome activity modulation	Ribosomal subunit interface protein	SCE1572_7599	yes	sce_6458	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	16S rRNA processing protein RimM	SCE1572_6008	yes	sce_4959	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	Dimethyladenosine transferase (EC 2.1.1.-)	SCE1572_6014	yes	sce_4966	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	Inactive homolog of metal-dependent proteases, putative molecular cha	SCE1572_2318	yes	sce_1865	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	LSU m5C1962 methyltransferase RlmI	SCE1572_24	yes	sce_25	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	Ribonuclease E (EC 3.1.26.12)	SCE1572_8450	yes	sce_59	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	Ribosomal large subunit pseudouridine synthase D (EC 4.2.1.70)	SCE1572_11	yes	sce_11	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	Ribosomal protein L11 methyltransferase (EC 2.1.1.-)	SCE1572_9145	yes	sce_4521	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	Ribosomal protein S6 glutaminyl transferase	SCE1572_8970	yes	sce_7731	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	Ribosomal-protein-L7p-serine acetyltransferase	SCE1572_1813	yes	sce_1271	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)	SCE1572_7710	yes	sce_6542	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	Ribosomal-protein-S5p-alanine acetyltransferase	SCE1572_665	yes	sce_470	yes
A and B	Protein Metabolism	Protein biosynthesis	Ribosome biogenesis bacterial	tRNA (Guanine37-N1) -methyltransferase (EC 2.1.1.31)	SCE1572_6006	yes	sce_4958	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation elongation factor G family	Translation elongation factor G	SCE1572_962	yes	sce_724	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation elongation factor G family	Translation elongation factor G-related protein	SCE1572_1903	yes	sce_1415	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation elongation factors bacterial	Translation elongation factor G	SCE1572_962	yes	sce_724	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation elongation factors bacterial	Translation elongation factor G-related protein	SCE1572_1903	yes	sce_1415	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation elongation factors bacterial	Translation elongation factor LepA	SCE1572_5105	yes	sce_4292	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation elongation factors bacterial	Translation elongation factor P	SCE1572_11483	yes	sce_10318	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation elongation factors bacterial	Translation elongation factor Ts	SCE1572_4194	yes	sce_3516	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation elongation factors bacterial	Translation elongation factor Tu	SCE1572_650	yes	sce_457	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation initiation factors bacterial	Methionyl-tRNA formyltransferase (EC 2.1.2.9)	SCE1572_6733	yes	sce_5605	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation initiation factors bacterial	Ribosome-binding factor A	SCE1572_7630	yes	sce_6491	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation initiation factors bacterial	Translation initiation factor 1	SCE1572_10065	yes	sce_8882	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation initiation factors bacterial	Translation initiation factor 2	SCE1572_7632	yes	sce_3829	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation initiation factors bacterial	Translation initiation factor 3	SCE1572_6061	yes	sce_5011	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	Hypothetical protein YaeJ with similarity to translation release factor	SCE1572_3101	yes	sce_2618	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	Methionine aminopeptidase (EC 3.4.11.18)	SCE1572_1680	yes	sce_1195	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	Peptide chain release factor 1	SCE1572_11293	yes	sce_10076	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	Peptide chain release factor 2	SCE1572_2275	yes	sce_1820	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	Peptide chain release factor 3	SCE1572_8250	yes	sce_6921	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	Peptide chain release factor homolog	SCE1572_9082	yes	sce_7846	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	Peptide deformylase (EC 3.5.1.88)	SCE1572_5077	yes	sce_4266	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	Peptidyl-tRNA hydrolase (EC 3.1.1.29)	SCE1572_9000	yes	sce_7765	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	Protein with similarity to RtcB	SCE1572_9083	yes	sce_7847	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	Ribosome recycling factor	SCE1572_8244	yes	sce_6915	yes
A and B	Protein Metabolism	Protein biosynthesis	Translation termination factors bacterial	tmRNA-binding protein SmpB	SCE1572_2190	yes	sce_2564	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	50S ribosomal subunit maturation GTPase RbgA (B. subtilis YlqF)	SCE1572_2042	yes	sce_1522	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	GTP-binding and nucleic acid-binding protein YchF	SCE1572_9428	yes	sce_8215	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	GTP-binding protein EngA	SCE1572_7858	yes	sce_3287	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	GTP-binding protein EngB	SCE1572_9713	yes	sce_8517	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	GTP-binding protein Era	SCE1572_7857	yes	sce_6660	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	GTP-binding protein HflX	SCE1572_634	yes	sce_442	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	GTP-binding protein Obg	SCE1572_2454	yes	sce_2000	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	GTP-binding protein TypA/BipA	SCE1572_1516	yes	sce_1040	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	Probable GTPase related to EngC	SCE1572_987	yes	sce_749	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	Signal recognition particle receptor protein FtsY (=alpha subunit) (TC 3	SCE1572_3933	yes	sce_3267	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	Signal recognition particle, subunit Ffh SRP54 (TC 3.A.5.1.1)	SCE1572_4739	yes	sce_9541	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	Translation elongation factor G	SCE1572_962	yes	sce_724	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	Translation elongation factor LepA	SCE1572_5105	yes	sce_4292	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	Translation elongation factor Tu	SCE1572_650	yes	sce_457	yes
A and B	Protein Metabolism	Protein biosynthesis	Universal GTPases	Translation initiation factor 2	SCE1572_7632	yes	sce_3829	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Ala	Alanyl-tRNA synthetase (EC 6.1.1.7)	SCE1572_6877	yes	sce_5742	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Arg	Arginyl-tRNA synthetase (EC 6.1.1.19)	SCE1572_9774	yes	sce_8570	yes

A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Asp and Asn	Asparaginyl-tRNA synthetase (EC 6.1.1.22)	SCE1572_7819	yes	sce_6622	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Asp and Asn	Aspartyl-tRNA synthetase (EC 6.1.1.12)	SCE1572_10640	yes	sce_9245	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Asp and Asn	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6)	SCE1572_2395	yes	sce_127	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Asp and Asn	Aspartyl-tRNA(Asn) amidotransferase subunit B (EC 6.3.5.6)	SCE1572_799	yes	sce_592	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Asp and Asn	Aspartyl-tRNA(Asn) amidotransferase subunit C (EC 6.3.5.6)	SCE1572_5745	yes	sce_4795	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Cys	Cysteinyl-tRNA synthetase (EC 6.1.1.16)	SCE1572_7237	yes	sce_693	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Glu and Gln	Glutaminyl-tRNA synthetase (EC 6.1.1.18)	SCE1572_11041	yes	sce_9753	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Glu and Gln	Glutamyl-tRNA synthetase (EC 6.1.1.17)	SCE1572_871	yes	sce_646	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Glu and Gln	Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)	SCE1572_2395	yes	sce_127	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Glu and Gln	Glutamyl-tRNA(Gln) amidotransferase subunit B (EC 6.3.5.7)	SCE1572_799	yes	sce_592	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Glu and Gln	Glutamyl-tRNA(Gln) amidotransferase subunit C (EC 6.3.5.7)	SCE1572_5745	yes	sce_4795	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Glu and Gln	Glutamyl-tRNA(Gln) synthetase (EC 6.1.1.24)	SCE1572_871	yes	sce_646	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Gly	Glycyl-tRNA synthetase alpha chain (EC 6.1.1.14)	SCE1572_707	yes	sce_504	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Gly	Glycyl-tRNA synthetase beta chain (EC 6.1.1.14)	SCE1572_9746	yes	sce_8547	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, His	Histidyl-tRNA synthetase (EC 6.1.1.21)	SCE1572_6135	yes	sce_5079	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Ile	Isoleucyl-tRNA synthetase (EC 6.1.1.5)	SCE1572_5697	yes	sce_4750	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Leu	Leucyl-tRNA synthetase (EC 6.1.1.4)	SCE1572_9512	yes	sce_8299	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Lys	Lysyl-tRNA synthetase (class II) (EC 6.1.1.6)	SCE1572_2276	yes	sce_1821	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Met	Methionyl-tRNA synthetase (EC 6.1.1.10)	SCE1572_155	yes	sce_140	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Phe	Phenylalanyl-tRNA synthetase alpha chain (EC 6.1.1.20)	SCE1572_4544	yes	sce_3798	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Phe	Phenylalanyl-tRNA synthetase beta chain (EC 6.1.1.20)	SCE1572_4543	yes	sce_3797	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Pro	Prolyl-tRNA synthetase (EC 6.1.1.15), archaeal/eukaryal type	SCE1572_5018	yes	sce_4220	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Ser	Archaeal seryl-tRNA synthetase-related sequence	SCE1572_8625	yes	sce_7347	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Ser	Seryl-tRNA synthetase (EC 6.1.1.11)	SCE1572_10462	yes	sce_9101	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Thr	Threonyl-tRNA synthetase (EC 6.1.1.3)	SCE1572_6059	yes	sce_4871	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Trp	Tryptophanyl-tRNA synthetase (EC 6.1.1.2)	SCE1572_8267	yes	sce_8274	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Val	Valyl-tRNA synthetase (EC 6.1.1.9)	SCE1572_6241	yes	sce_5752	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Ala-CGC	SCE1572_rna.3	yes	sce_rna.3	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Ala-GGC	SCE1572_rna.60	yes	sce_rna.60	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Arg-ACG	SCE1572_rna.29	yes	sce_rna.26	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Arg-CCG	SCE1572_rna.13	yes	sce_rna.12	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Cys-GCA	SCE1572_rna.2	yes	sce_rna.2	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Gly-CCC	SCE1572_rna.38	yes	sce_rna.36	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Gly-GCC	SCE1572_rna.37	yes	sce_rna.35	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Leu-CAA	SCE1572_rna.20	yes	sce_rna.73	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Leu-CAG	SCE1572_rna.43	yes	sce_rna.42	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Leu-GAG	SCE1572_rna.48	yes	sce_rna.47	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Phe-GAA	SCE1572_rna.19	yes	sce_rna.18	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Pro-CGG	SCE1572_rna.11	yes	sce_rna.10	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Pro-GGG	SCE1572_rna.14	yes	sce_rna.13	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Ser-CGA	SCE1572_rna.62	yes	sce_rna.62	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Ser-GGA	SCE1572_rna.61	yes	sce_rna.61	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Trp-CCA	SCE1572_rna.8	yes	sce_rna.8	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Val-CAC	SCE1572_rna.44	yes	sce_rna.43	yes
A and B	Protein Metabolism	Protein biosynthesis	tRNAs	tRNA-Val-GAC	SCE1572_rna.45	yes	sce_rna.44	yes
B	Protein Metabolism	Protein biosynthesis	tRNA aminoacylation, Tyr	Tyrosyl-tRNA synthetase (EC 6.1.1.1)		no	sce_572	yes
A and B	Protein Metabolism	Protein degradation	Aminopeptidases (EC 3.4.11.-)	Aminopeptidase Y (Arg, Lys, Leu preference) (EC 3.4.11.15)	SCE1572_2080	yes	sce_1592	yes
A and B	Protein Metabolism	Protein degradation	Aminopeptidases (EC 3.4.11.-)	Cytosol aminopeptidase PepA (EC 3.4.11.1)	SCE1572_3407	yes	sce_2894	yes
A and B	Protein Metabolism	Protein degradation	Aminopeptidases (EC 3.4.11.-)	Membrane alanine aminopeptidase N (EC 3.4.11.2)	SCE1572_3033	yes	sce_2602	yes
A and B	Protein Metabolism	Protein degradation	Aminopeptidases (EC 3.4.11.-)	Xaa-Pro aminopeptidase (EC 3.4.11.9)	SCE1572_10969	yes	sce_9683	yes
A and B	Protein Metabolism	Protein degradation	Metallocarboxypeptidases (EC 3.4.17.-)	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	SCE1572_330	yes	sce_4328	yes
A and B	Protein Metabolism	Protein degradation	Metallocarboxypeptidases (EC 3.4.17.-)	Muramoyltetrapeptide carboxypeptidase (EC 3.4.17.13)	SCE1572_5722	yes	sce_4775	yes
A and B	Protein Metabolism	Protein degradation	Omega peptidases (EC 3.4.19.-)	Isoaspartyl aminopeptidase (EC 3.4.19.5)	SCE1572_5019	yes	sce_4221	yes
A and B	Protein Metabolism	Protein degradation	Protein degradation	Asp-X dipeptidase	SCE1572_5019	yes	sce_4221	yes
A and B	Protein Metabolism	Protein degradation	Protein degradation	Leucyl/phenylalanyl-tRNA--protein transferase (EC 2.3.2.6)	SCE1572_7629	yes	sce_6489	yes
A and B	Protein Metabolism	Protein degradation	Protein degradation	Oligopeptidase A (EC 3.4.24.70)	SCE1572_9044	yes	sce_7805	yes
A and B	Protein Metabolism	Protein degradation	Protein degradation	Thimet oligopeptidase (EC 3.4.24.15)	SCE1572_6034	yes	sce_4987	yes
A and B	Protein Metabolism	Protein degradation	Proteolysis in bacteria, ATP-dependent	ATP-dependent Clp protease ATP-binding subunit ClpA	SCE1572_571	yes	sce_373	yes
A and B	Protein Metabolism	Protein degradation	Proteolysis in bacteria, ATP-dependent	ATP-dependent Clp protease ATP-binding subunit ClpX	SCE1572_4215	yes	sce_3533	yes
A and B	Protein Metabolism	Protein degradation	Proteolysis in bacteria, ATP-dependent	ATP-dependent Clp protease adaptor protein ClpS	SCE1572_5907	yes	sce_836	yes
A and B	Protein Metabolism	Protein degradation	Proteolysis in bacteria, ATP-dependent	ATP-dependent Clp protease proteolytic subunit (EC 3.4.21.92)	SCE1572_4213	yes	sce_2489	yes
A and B	Protein Metabolism	Protein degradation	Proteolysis in bacteria, ATP-dependent	ATP-dependent protease La (EC 3.4.21.53) Type I	SCE1572_1411	yes	sce_1008	yes
A and B	Protein Metabolism	Protein degradation	Proteolysis in bacteria, ATP-dependent	ATP-dependent protease La (EC 3.4.21.53) Type II	SCE1572_10444	yes	sce_9085	yes
A and B	Protein Metabolism	Protein degradation	Proteolysis in bacteria, ATP-dependent	ClpB protein	SCE1572_6714	yes	sce_5586	yes
A and B	Protein Metabolism	Protein degradation	Putative TldE-TldD proteolytic complex	TldD protein, part of proposed TldE/TldD proteolytic complex (PMID	SCE1572_8457	yes	sce_7217	yes
A and B	Protein Metabolism	Protein degradation	Putative TldE-TldD proteolytic complex	TldE/PmbA protein, part of proposed TldE/TldD proteolytic complex (	SCE1572_2722	yes	sce_2260	yes
A and B	Protein Metabolism	Protein degradation	Serine endopeptidase (EC 3.4.21.-)	Prolyl endopeptidase (EC 3.4.21.26)	SCE1572_1165	yes	sce_856	yes
A	Protein Metabolism	Protein degradation	Protein degradation	Arginine-tRNA-protein transferase (EC 2.3.2.8)	SCE1572_5228	yes		no
B	Protein Metabolism	Protein degradation	Serine endopeptidase (EC 3.4.21.-)	Glutamyl endopeptidase precursor (EC 3.4.21.19), blaSE		no	sce_2479	yes
A and B	Protein Metabolism	Protein folding	GroEL GroES	Heat shock protein 60 family chaperone GroEL	SCE1572_3786	yes	sce_3121	yes
A and B	Protein Metabolism	Protein folding	GroEL GroES	Heat shock protein 60 family co-chaperone GroES	SCE1572_3785	yes	sce_3120	yes
A and B	Protein Metabolism	Protein folding	Peptidyl-prolyl cis-trans isomerase	FKBP-type peptidyl-prolyl cis-trans isomerase SlyD (EC 5.2.1.8)	SCE1572_9303	yes	sce_8083	yes
A and B	Protein Metabolism	Protein folding	Peptidyl-prolyl cis-trans isomerase	FKBP-type peptidyl-prolyl cis-trans isomerase fklB (EC 5.2.1.8)	SCE1572_6322	yes	sce_8447	yes
A and B	Protein Metabolism	Protein folding	Peptidyl-prolyl cis-trans isomerase	Foldase protein PrsA precursor (EC 5.2.1.8)	SCE1572_9344	yes	sce_8124	yes
A and B	Protein Metabolism	Protein folding	Peptidyl-prolyl cis-trans isomerase	Peptidyl-prolyl cis-trans isomerase ppiD (EC 5.2.1.8)	SCE1572_2712	yes	sce_2251	yes
A and B	Protein Metabolism	Protein folding	Peptidyl-prolyl cis-trans isomerase	Survival protein SurA precursor (Peptidyl-prolyl cis-trans isomerase Su	SCE1572_1628	yes	sce_1165	yes
A and B	Protein Metabolism	Protein folding	Periplasmic disulfide interchange	Cytochrome c-type biogenesis protein CcdA (DsbD analog)	SCE1572_10897	yes	sce_9530	yes
A and B	Protein Metabolism	Protein folding	Periplasmic disulfide interchange	Cytochrome c-type biogenesis protein DsbD, protein-disulfide reductas	SCE1572_8993	yes	sce_7758	yes
A and B	Protein Metabolism	Protein folding	Periplasmic disulfide interchange	Periplasmic thiol:disulfide interchange protein DsbA	SCE1572_9668	yes	sce_8476	yes
A and B	Protein Metabolism	Protein folding	Protein chaperones	Chaperone protein DnaJ	SCE1572_2243	yes	sce_1795	yes
A and B	Protein Metabolism	Protein folding	Protein chaperones	Chaperone protein DnaK	SCE1572_3	yes	sce_3	yes
A and B	Protein Metabolism	Protein folding	Protein chaperones	Chaperone protein HscA	SCE1572_9421	yes	sce_8208	yes
A and B	Protein Metabolism	Protein folding	Protein chaperones	Chaperone protein HscB	SCE1572_9420	yes	sce_8207	yes
A and B	Protein Metabolism	Protein folding	Protein chaperones	Chaperone protein HtpG	SCE1572_11480	yes	sce_10315	yes
A and B	Protein Metabolism	Protein folding	Protein chaperones	ClpB protein	SCE1572_6714	yes	sce_5586	yes
A and B	Protein Metabolism	Protein folding	Protein chaperones	DnaJ-class molecular chaperone CbpA	SCE1572_926	yes	sce_694	yes
A and B	Protein Metabolism	Protein folding	Protein chaperones	Heat shock protein GrpE	SCE1572_4	yes	sce_4	yes
A	Protein Metabolism	Protein folding	Peptidyl-prolyl cis-trans isomerase	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor (EC 5.2	SCE1572_5061	yes		no
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	B12 binding domain of Methylmalonyl-CoA mutase (EC 5.4.99.2)	SCE1572_2298	yes	sce_1845	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	FKBP-type peptidyl-prolyl cis-trans isomerase SlyD (EC 5.2.1.8)	SCE1572_9303	yes	sce_8083	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	Methylmalonyl-CoA mutase (EC 5.4.99.2)	SCE1572_3702	yes	sce_3052	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	Putative metal chaperone, involved in Zn homeostasis, GTPase of COG	SCE1572_10351	yes	sce_9219	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	Urease accessory protein UreD	SCE1572_3069	yes	sce_7327	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	Urease accessory protein UreF	SCE1572_3073	yes	sce_7330	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	Urease accessory protein UreG	SCE1572_3074	yes	sce_7331	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	Urease alpha subunit (EC 3.5.1.5)	SCE1572_3071	yes	sce_7329	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	Urease gamma subunit (EC 3.5.1.5)	SCE1572_3070	yes	sce_7328	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	[NiFe] hydrogenase metallocenter assembly protein HypD	SCE1572_8090	yes	sce_5121	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	[NiFe] hydrogenase metallocenter assembly protein HypE	SCE1572_3170	yes	sce_5122	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	[NiFe] hydrogenase metallocenter assembly protein HypF	SCE1572_3169	yes	sce_5119	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	[NiFe] hydrogenase nickel incorporation protein HypA	SCE1572_8091	yes	sce_5118	yes
A and B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	putative periplasmic protein kinase ArgK and related GTPases of G3E	SCE1572_3703	yes	sce_3053	yes
A and B	Protein Metabolism	Protein processing and modification	Lipoprotein Biosynthesis	Apolipoprotein N-acyltransferase (EC 2.3.1.-)	SCE1572_26	yes	sce_28	yes
A and B	Protein Metabolism	Protein processing and modification	Lipoprotein Biosynthesis	Lipoprotein signal peptidase (EC 3.4.23.36)	SCE1572_5206	yes	sce_4364	yes
A and B	Protein Metabolism	Protein processing and modification	Lipoprotein Biosynthesis	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)	SCE1572_642	yes	sce_451	yes
A and B	Protein Metabolism	Protein processing and modification	Methionine sulfoxide reductases	Cytochrome c-type biogenesis protein CcdA (DsbD analog)	SCE1572_10897	yes	sce_9530	yes
A and B	Protein Metabolism	Protein processing and modification	Methionine sulfoxide reductases	Peptide methionine sulfoxide reductase MsrA (EC 1.8.4.11)	SCE1572_10145	yes	sce_8948	yes
A and B	Protein Metabolism	Protein processing and modification	Methionine sulfoxide reductases	Peptide methionine sulfoxide reductase MsrB (EC 1.8.4.12)	SCE1572_10145	yes	sce_6036	yes
A and B	Protein Metabolism	Protein processing and modification	Methionine sulfoxide reductases	Selenoprotein O and cysteine-containing homologs	SCE1572_3630	yes	sce_6065	yes
A and B	Protein Metabolism	Protein processing and modification	Peptide methionine sulfoxide reductase	Peptide methionine sulfoxide reductase MsrA (EC 1.8.4.11)	SCE1572_10145	yes	sce_8948	yes
A and B	Protein Metabolism	Protein processing and modification	Peptide methionine sulfoxide reductase	Peptide methionine sulfoxide reductase MsrB (EC 1.8.4.12)	SCE1572_10145	yes	sce_6036	yes
A and B	Protein Metabolism	Protein processing and modification	Protein-L-isoaspartate O-methyltransferase	Protein-L-isoaspartate O-methyltransferase (EC 2.1.1.77)	SCE1572_903	yes	sce_6084	yes
A and B	Protein Metabolism	Protein processing and modification	Ribosomal protein S12p Asp methylthiotransferase	Ribosomal protein S12p Asp88 (E. coli) methylthiotransferase	SCE1572_5735	yes	sce_4785	yes
A and B	Protein Metabolism	Protein processing and modification	Ribosomal protein S12p Asp methylthiotransferase	SSU ribosomal protein S12p (S23e)	SCE1572_1306	yes	sce_942	yes
A and B	Protein Metabolism	Protein processing and modification	Ribosomal protein S5p acylation	Ribosomal-protein-S5p-alanine acetyltransferase	SCE1572_665	yes	sce_470	yes
A and B	Protein Metabolism	Protein processing and modification	Ribosomal protein S5p acylation	SSU ribosomal protein S5p (S2e)	SCE1572_10070	yes	sce_8887	yes
A and B	Protein Metabolism	Protein processing and modification	Signal peptidase	Lipoprotein signal peptidase (EC 3.4.23.36)	SCE1572_5206	yes	sce_4364	yes
A and B	Protein Metabolism	Protein processing and modification	Signal peptidase	Signal peptidase I (EC 3.4.21.89)	SCE1572_2282	yes	sce_1828	yes
A and B	Protein Metabolism	Protein processing and modification	Translation elongation factor P lysylation	Translation elongation factor P	SCE1572_11483	yes	sce_10318	yes
A and B	Protein Metabolism	Protein processing and modification	Translation elongation factor P lysylation	Translation elongation factor P Lys34:lysine transferase	SCE1572_3824	yes	sce_3152	yes
A	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	Urease accessory protein UreE	SCE1572_3072	yes		no
B	Protein Metabolism	Protein processing and modification	G3E family of P-loop GTPases (metallocenter biosynthesis)	[NiFe] hydrogenase metallocenter assembly protein HypC		no	sce_5120	yes
A and B	Protein Metabolism	Selenoproteins	Selenoprotein O	Selenoprotein O and cysteine-containing homologs	SCE1572_3630	yes	sce_6065	yes
A and B	RNA Metabolism	RNA processing and modification	16S rRNA modification within P site of ribosome	Cell division protein FtsI [Peptidoglycan synthetase] (EC 2.4.1.129)	SCE1572_2302	yes	sce_1849	yes
A and B	RNA Metabolism	RNA processing and modification	16S rRNA modification within P site of ribosome	Cell division protein MraZ	SCE1572_2299	yes	sce_1846	yes
A and B	RNA Metabolism	RNA processing and modification	16S rRNA modification within P site of ribosome	Penicillin-binding protein 2 (PBP-2)	SCE1572_3205	yes	sce_2699	yes
A and B	RNA Metabolism	RNA processing and modification	16S rRNA modification within P site of ribosome	rRNA small subunit methyltransferase H	SCE1572_2300	yes	sce_1847	yes
A and B	RNA Metabolism	RNA processing and modification	16S rRNA modification within P site of ribosome	rRNA small subunit methyltransferase I	SCE1572_11326	yes	sce_10106	yes
A and B	RNA Metabolism	RNA processing and modification	ATP-dependent RNA helicases, bacterial	ATP-dependent RNA helicase RhlE	SCE1572_4735	yes	sce_3956	yes
A and B	RNA Metabolism	RNA processing and modification	ATP-dependent RNA helicases, bacterial	Cold-shock DEAD-box protein A	SCE1572_1057	yes	sce_792	yes
A and B	RNA Metabolism	RNA processing and modification	Methylthiotransferases	Ribosomal protein S12p Asp88 (E. coli) methylthiotransferase	SCE1572_5735	yes	sce_4785	yes
A and B	RNA Metabolism	RNA processing and modification	Methylthiotransferases	tRNA-i(6)A37 methylthiotransferase	SCE1572_7173	yes	sce_5902	yes
A and B	RNA Metabolism	RNA processing and modification	Polyadenylation bacterial	Poly(A) polymerase (EC 2.7.7.19)	SCE1572_2361	yes	sce_1912	yes
A and B	RNA Metabolism	RNA processing and modification	Polyadenylation bacterial	Polyribonucleotide nucleotidyltransferase (EC 2.7.7.8)	SCE1572_6129	yes	sce_5074	yes
A and B	RNA Metabolism	RNA processing and modification	Polyadenylation bacterial	tRNA nucleotidyltransferase (EC 2.7.7.21) (EC 2.7.7.25)	SCE1572_1432	yes	sce_1024	yes
A and B	RNA Metabolism	RNA processing and modification	Polyadenylation bacterial	tRNA nucleotidyltransferase, A-adding (EC 2.7.7.25)	SCE1572_4448	yes	sce_3692	yes
A and B	RNA Metabolism	RNA processing and modification	Queuosine-Archaeosine Biosynthesis	Epoxyqueuosine (oQ) reductase QueG	SCE1572_6005	yes	sce_4957	yes
A and B	RNA Metabolism	RNA processing and modification	Queuosine-Archaeosine Biosynthesis	GTP cyclohydrolase I (EC 3.5.4.16) type 1	SCE1572_11540	yes	sce_10389	yes
A and B	RNA Metabolism	RNA processing and modification	Queuosine-Archaeosine Biosynthesis	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)	SCE1572_617	yes	sce_425	yes
A and B	RNA Metabolism	RNA processing and modification	Queuosine-Archaeosine Biosynthesis	Permease of the drug/metabolite transporter (DMT) superfamily	SCE1572_4613	yes	sce_4138	yes
A and B	RNA Metabolism	RNA processing and modification	Queuosine-Archaeosine Biosynthesis	Putative preQ0 transporter	SCE1572_4520	yes	sce_8632	yes
A and B	RNA Metabolism	RNA processing and modification	Queuosine-Archaeosine Biosynthesis	Queuosine Biosynthesis QueE Radical SAM	SCE1572_3404	yes	sce_2891	yes
A and B	RNA Metabolism	RNA processing and modification	Queuosine-Archaeosine Biosynthesis	Queuosine biosynthesis QueD, PTPS-I	SCE1572_10281	yes	sce_9631	yes
A and B	RNA Metabolism	RNA processing and modification	Queuosine-Archaeosine Biosynthesis	S-adenosylmethionine:tRNA ribosyltransferase-isomerase (EC 5.-.-.-)	SCE1572_2293	yes	sce_1841	yes
A and B	RNA Metabolism	RNA processing and modification	Queuosine-Archaeosine Biosynthesis	glutamyl-Q-tRNA synthetase	SCE1572_870	yes	sce_645	yes
A and B	RNA Metabolism	RNA processing and modification	Queuosine-Archaeosine Biosynthesis	tRNA-guanine transglycosylase (EC 2.4.2.29)	SCE1572_2294	yes	sce_1842	yes
A and B	RNA Metabolism	RNA processing and modification	RNA 3'-terminal phosphate cyclase	Protein with similarity to RtcB	SCE1572_9083	yes	sce_7847	yes
A and B	RNA Metabolism	RNA processing and modification	RNA 3'-terminal phosphate cyclase	RNA 3'-terminal phosphate cyclase (EC 6.5.1.4)	SCE1572_9211	yes	sce_8012	yes
A and B	RNA Metabolism	RNA processing and modification	RNA 3'-terminal phosphate cyclase	RNA-2',3'-PO4:RNA-5'-OH ligase	SCE1572_1930	yes	sce_1448	yes
A and B	RNA Metabolism	RNA processing and modification	RNA 3'-terminal phosphate cyclase	RtcB-like protein	SCE1572_2594	yes	sce_2174	yes
A and B	RNA Metabolism	RNA processing and modification	RNA 3'-terminal phosphate cyclase	Transcriptional regulatory protein RtcR	SCE1572_9209	yes	sce_8010	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	Dimethyladenosine transferase (EC 2.1.1.-)	SCE1572_6014	yes	sce_4966	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	LSU m5C1962 methyltransferase RlmI	SCE1572_24	yes	sce_25	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	Ribosomal RNA large subunit methyltransferase E (EC 2.1.1.-)	SCE1572_2665	yes	sce_2217	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	Ribosomal RNA large subunit methyltransferase N (EC 2.1.1.-)	SCE1572_2215	yes	sce_1759	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	Ribosomal RNA small subunit methyltransferase B (EC 2.1.1.-)	SCE1572_10003	yes	sce_8824	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	Ribosomal RNA small subunit methyltransferase D (EC 2.1.1.-)	SCE1572_10320	yes	sce_9013	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	Ribosomal RNA small subunit methyltransferase E (EC 2.1.1.-)	SCE1572_9144	yes	sce_7942	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase (EC 2.	SCE1572_9389	yes	sce_8169	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	tRNA (Guanine37-N1) -methyltransferase (EC 2.1.1.31)	SCE1572_6006	yes	sce_4958	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	tRNA (Guanosine18-2'-O-) -methyltransferase (EC 2.1.1.34)	SCE1572_611	yes	sce_420	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	tRNA (adenine37-N(6)-)-methyltransferase TrmN6	SCE1572_2983	yes	sce_2585	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	tRNA (cytosine34-2'-O-)-methyltransferase (EC 2.1.1.-)	SCE1572_2345	yes	sce_1895	yes
A and B	RNA Metabolism	RNA processing and modification	RNA methylation	tRNA (guanine46-N7-)-methyltransferase (EC 2.1.1.33)	SCE1572_1219	yes	sce_879	yes
A and B	RNA Metabolism	RNA processing and modification	RNA processing and degradation, bacterial	3'-to-5' exoribonuclease RNase R	SCE1572_9531	yes	sce_8315	yes
A and B	RNA Metabolism	RNA processing and modification	RNA processing and degradation, bacterial	3'-to-5' oligoribonuclease (orn)	SCE1572_9767	yes	sce_8562	yes

A and B	RNA Metabolism	RNA processing and modification	RNA processing and degradation, bacterial	Cytoplasmic axial filament protein CafA and Ribonuclease G (EC 3.1.4.	SCE1572_9350	yes	sce_8131	yes
A and B	RNA Metabolism	RNA processing and modification	RNA processing and degradation, bacterial	Ribonuclease E (EC 3.1.26.12)	SCE1572_8450	yes	sce_59	yes
A and B	RNA Metabolism	RNA processing and modification	RNA processing and degradation, bacterial	Ribonuclease E inhibitor RraA	SCE1572_8481	yes	sce_7246	yes
A and B	RNA Metabolism	RNA processing and modification	RNA processing orphans	2'-5' RNA ligase	SCE1572_6840	yes	sce_5700	yes
A and B	RNA Metabolism	RNA processing and modification	RNA pseudouridine syntheses	Ribosomal large subunit pseudouridine synthase D (EC 4.2.1.70)	SCE1572_11	yes	sce_11	yes
A and B	RNA Metabolism	RNA processing and modification	RNA pseudouridine syntheses	tRNA pseudouridine synthase A (EC 4.2.1.70)	SCE1572_533	yes	sce_1685	yes
A and B	RNA Metabolism	RNA processing and modification	RNA pseudouridine syntheses	tRNA pseudouridine synthase B (EC 4.2.1.70)	SCE1572_5750	yes	sce_4800	yes
A and B	RNA Metabolism	RNA processing and modification	Ribonuclease H	Ribonuclease HI (EC 3.1.26.4)	SCE1572_1626	yes	sce_1164	yes
A and B	RNA Metabolism	RNA processing and modification	Ribonucleases in Bacillus	Ribonuclease J2 (endoribonuclease in RNA processing)	SCE1572_620	yes	sce_428	yes
A and B	RNA Metabolism	RNA processing and modification	mnm5U34 biosynthesis bacteria	Cysteine desulfurase (EC 2.8.1.7)	SCE1572_1872	yes	sce_1345	yes
A and B	RNA Metabolism	RNA processing and modification	mnm5U34 biosynthesis bacteria	Cysteine desulfurase (EC 2.8.1.7), IscS subfamily	SCE1572_9417	yes	sce_8204	yes
A and B	RNA Metabolism	RNA processing and modification	mnm5U34 biosynthesis bacteria	Cysteine desulfurase (EC 2.8.1.7), SufS subfamily	SCE1572_10250	yes	sce_5192	yes
A and B	RNA Metabolism	RNA processing and modification	mnm5U34 biosynthesis bacteria	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase (EC 2.	SCE1572_9389	yes	sce_8169	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	Asparaginyl-tRNA synthetase (EC 6.1.1.22)	SCE1572_7819	yes	sce_6622	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	COG0009 Sua5 subfamily, required for N6-threonylcarbamoyl adenosi	SCE1572_9021	yes	sce_7776	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	COG1180: Radical SAM, Pyruvate-formate lyase-activating enzyme lik	SCE1572_408	yes	sce_227	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	COG1720: Uncharacterized conserved protein	SCE1572_1715	yes	sce_2673	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	Cysteine desulfurase (EC 2.8.1.7)	SCE1572_1872	yes	sce_1345	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	Cysteine desulfurase (EC 2.8.1.7), IscS subfamily	SCE1572_9417	yes	sce_8204	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	Cysteine desulfurase (EC 2.8.1.7), SufS subfamily	SCE1572_10250	yes	sce_5192	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	GTP-binding protein Era	SCE1572_7857	yes	sce_6660	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	Iron-sulfur cluster assembly scaffold protein IscU	SCE1572_9418	yes	sce_8205	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	Protein-L-isoaspartate O-methyltransferase (EC 2.1.1.77)	SCE1572_903	yes	sce_6084	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	RNA-2',3'-PO4:RNA-5'-OH ligase	SCE1572_1930	yes	sce_1448	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	Rhodanese-like domain protein	SCE1572_332	yes	sce_180	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	tRNA (Guanine37-N1) -methyltransferase (EC 2.1.1.31)	SCE1572_6006	yes	sce_4958	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	tRNA dihydrouridine synthase B (EC 1.-.-.-)	SCE1572_4986	yes	sce_4190	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	tRNA pseudouridine 13 synthase (EC 4.2.1.-)	SCE1572_5783	yes	sce_4830	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	tRNA pseudouridine synthase A (EC 4.2.1.70)	SCE1572_533	yes	sce_1685	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	tRNA(Cytosine32)-2-thiocytidine synthetase	SCE1572_3408	yes	sce_2895	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	tRNA-i(6)A37 methylthiotransferase	SCE1572_7173	yes	sce_5902	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	COG1720: Uncharacterized conserved protein	SCE1572_1715	yes	sce_2673	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Chaperone protein HscA	SCE1572_9421	yes	sce_8208	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Chaperone protein HscB	SCE1572_9420	yes	sce_8207	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Cysteine desulfurase (EC 2.8.1.7)	SCE1572_1872	yes	sce_1345	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Cysteine desulfurase (EC 2.8.1.7), IscS subfamily	SCE1572_9417	yes	sce_8204	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Cysteine desulfurase (EC 2.8.1.7), SufS subfamily	SCE1572_10250	yes	sce_5192	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Cytidine deaminase (EC 3.5.4.5)	SCE1572_7737	yes	sce_6562	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	FIG004453: protein YceG like	SCE1572_5816	yes	sce_4865	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	FIG137478: Hypothetical protein	SCE1572_5033	yes	sce_4235	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Ferredoxin, 2Fe-2S	SCE1572_9111	yes	sce_7893	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	GTP cyclohydrolase I (EC 3.5.4.16) type 1	SCE1572_11540	yes	sce_10389	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Iron binding protein IscA for iron-sulfur cluster assembly	SCE1572_9419	yes	sce_8206	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Iron-sulfur cluster assembly scaffold protein IscU	SCE1572_9418	yes	sce_8205	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Queuosine Biosynthesis QueE Radical SAM	SCE1572_3404	yes	sce_2891	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	Queuosine biosynthesis QueD, PTPS-I	SCE1572_10281	yes	sce_9631	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	RNA binding methyltransferase FtsJ like	SCE1572_10681	yes	sce_9292	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	S-adenosylmethionine:tRNA ribosyltransferase-isomerase (EC 5.-.-.-)	SCE1572_2293	yes	sce_1841	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	glutamyl-Q-tRNA synthetase	SCE1572_870	yes	sce_645	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase (EC 2.	SCE1572_9389	yes	sce_8169	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA (Guanine37-N1) -methyltransferase (EC 2.1.1.31)	SCE1572_6006	yes	sce_4958	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA (Guanosine18-2'-O-) -methyltransferase (EC 2.1.1.34)	SCE1572_611	yes	sce_420	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA (cytosine34-2'-O-)-methyltransferase (EC 2.1.1.-)	SCE1572_2345	yes	sce_1895	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA (guanine46-N7-)-methyltransferase (EC 2.1.1.33)	SCE1572_1219	yes	sce_879	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA delta(2)-isopentenylpyrophosphate transferase (EC 2.5.1.8)	SCE1572_11322	yes	sce_10101	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA dihydrouridine synthase B (EC 1.-.-.-)	SCE1572_4986	yes	sce_4190	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA pseudouridine 13 synthase (EC 4.2.1.-)	SCE1572_5783	yes	sce_4830	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA pseudouridine synthase A (EC 4.2.1.70)	SCE1572_533	yes	sce_1685	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA pseudouridine synthase B (EC 4.2.1.70)	SCE1572_5750	yes	sce_4800	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA(Cytosine32)-2-thiocytidine synthetase	SCE1572_3408	yes	sce_2895	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA(Ile)-lysidine synthetase	SCE1572_9384	yes	sce_8164	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA-guanine transglycosylase (EC 2.4.2.29)	SCE1572_2294	yes	sce_1842	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA-i(6)A37 methylthiotransferase	SCE1572_7173	yes	sce_5902	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA-specific adenosine-34 deaminase (EC 3.5.4.-)	SCE1572_3415	yes	sce_2901	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA modification Bacteria	tRNA:m(5)U-54 MTase gid	SCE1572_6866	yes	sce_5729	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA nucleotidyltransferase	tRNA nucleotidyltransferase (EC 2.7.7.21) (EC 2.7.7.25)	SCE1572_1432	yes	sce_1024	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA nucleotidyltransferase	tRNA nucleotidyltransferase, A-adding (EC 2.7.7.25)	SCE1572_4448	yes	sce_3692	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA processing	Ribonuclease D (EC 3.1.26.3)	SCE1572_5707	yes	sce_4759	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA processing	Ribonuclease P protein component (EC 3.1.26.5)	SCE1572_3331	yes	sce_2827	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA processing	Ribonuclease PH (EC 2.7.7.56)	SCE1572_10102	yes	sce_8920	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA processing	tRNA delta(2)-isopentenylpyrophosphate transferase (EC 2.5.1.8)	SCE1572_11322	yes	sce_10101	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA processing	tRNA pseudouridine 13 synthase (EC 4.2.1.-)	SCE1572_5783	yes	sce_4830	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA processing	tRNA pseudouridine synthase A (EC 4.2.1.70)	SCE1572_533	yes	sce_1685	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA processing	tRNA pseudouridine synthase B (EC 4.2.1.70)	SCE1572_5750	yes	sce_4800	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA processing	tRNA(Ile)-lysidine synthetase	SCE1572_9384	yes	sce_8164	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA processing	tRNA-i(6)A37 methylthiotransferase	SCE1572_7173	yes	sce_5902	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA processing	tRNA-specific adenosine-34 deaminase (EC 3.5.4.-)	SCE1572_3415	yes	sce_2901	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA splicing	ADP-ribose 1''-phosphate phophatase	SCE1572_4147	yes	sce_7614	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA splicing	RNA 3'-terminal phosphate cyclase (EC 6.5.1.4)	SCE1572_9211	yes	sce_8012	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA splicing	RNA-2',3'-PO4:RNA-5'-OH ligase	SCE1572_1930	yes	sce_1448	yes
A and B	RNA Metabolism	RNA processing and modification	tRNA splicing	RNA:NAD 2'-phosphotransferase	SCE1572_2604	yes	sce_2186	yes
A	RNA Metabolism	RNA processing and modification	RNA methylation	23S rRNA (guanine-N-2-) -methyltransferase rlmL EC 2.1.1.-)	SCE1572_7706	yes		no
A	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	Predicted N6-adenine-specific RNA methylase containing THUMP dor	SCE1572_7798	yes		no
B	RNA Metabolism	RNA processing and modification	RNA methylation	rRNA small subunit 7-methylguanosine (m7G) methyltransferase GidB		no	sce_6774	yes
B	RNA Metabolism	RNA processing and modification	tRNA modification Archaea	5-carboxymethyl uridine and 5-carboxymethyl 2-thiouridine methyltransferase		no	sce_8197	yes
B	RNA Metabolism	RNA processing and modification	tRNA processing	tRNAHis-5'-guanylyltransferase		no	sce_6780	yes
A and B	RNA Metabolism	Transcription	RNA polymerase bacterial	DNA-directed RNA polymerase alpha subunit (EC 2.7.7.6)	SCE1572_10059	yes	sce_8876	yes
A and B	RNA Metabolism	Transcription	RNA polymerase bacterial	DNA-directed RNA polymerase beta subunit (EC 2.7.7.6)	SCE1572_660	yes	sce_466	yes
A and B	RNA Metabolism	Transcription	RNA polymerase bacterial	DNA-directed RNA polymerase beta' subunit (EC 2.7.7.6)	SCE1572_662	yes	sce_468	yes
A and B	RNA Metabolism	Transcription	RNA polymerase bacterial	DNA-directed RNA polymerase omega subunit (EC 2.7.7.6)	SCE1572_9342	yes	sce_8121	yes
A and B	RNA Metabolism	Transcription	Rrf2 family transcriptional regulators	Iron-sulfur cluster regulator IscR	SCE1572_7588	yes	sce_6444	yes
A and B	RNA Metabolism	Transcription	Rrf2 family transcriptional regulators	Rrf2 family transcriptional regulator, group III	SCE1572_1737	yes	sce_6432	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	COG2740: Predicted nucleic-acid-binding protein implicated in transcri	SCE1572_7634	yes	sce_6494	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	FIG000325: clustered with transcription termination protein NusA	SCE1572_7636	yes	sce_6496	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	Regulator of nucleoside diphosphate kinase	SCE1572_5427	yes	sce_3045	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	Transcription accessory protein (S1 RNA-binding domain)	SCE1572_5755	yes	sce_4806	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	Transcription antitermination protein NusG	SCE1572_653	yes	sce_460	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	Transcription elongation factor GreA	SCE1572_4817	yes	sce_4031	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	Transcription elongation factor GreB	SCE1572_4795	yes	sce_4010	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	Transcription termination factor Rho	SCE1572_10055	yes	sce_8872	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	Transcription termination protein NusA	SCE1572_7635	yes	sce_6495	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	Transcription termination protein NusB	SCE1572_9355	yes	sce_8136	yes
A and B	RNA Metabolism	Transcription	Transcription factors bacterial	Transcription-repair coupling factor	SCE1572_3464	yes	sce_2957	yes
A and B	RNA Metabolism	Transcription	Transcription initiation, bacterial sigma factors	RNA polymerase sigma factor RpoD	SCE1572_379	yes	sce_211	yes
A and B	RNA Metabolism	Transcription	Transcription initiation, bacterial sigma factors	RNA polymerase sigma factor RpoE	SCE1572_380	yes	sce_625	yes
A and B	RNA Metabolism	Transcription	Transcription initiation, bacterial sigma factors	RNA polymerase sigma factor RpoH	SCE1572_1341	yes	sce_965	yes
A and B	RNA Metabolism	Transcription	Transcription initiation, bacterial sigma factors	RNA polymerase sigma factor SigB	SCE1572_3441	yes	sce_2933	yes
A and B	RNA Metabolism	Transcription	Transcription initiation, bacterial sigma factors	RNA polymerase sigma factor SigW	SCE1572_1464	yes	sce_6812	yes
A and B	RNA Metabolism	Transcription	Transcription initiation, bacterial sigma factors	RNA polymerase sigma factor for flagellar operon	SCE1572_2286	yes	sce_1833	yes
A and B	RNA Metabolism	Transcription	Transcription initiation, bacterial sigma factors	RNA polymerase sigma-54 factor RpoN	SCE1572_33	yes	sce_35	yes
A and B	RNA Metabolism	Transcription	Transcription initiation, bacterial sigma factors	RNA polymerase sigma-70 factor	SCE1572_8559	yes	sce_9825	yes
A and B	RNA Metabolism	Transcription	Transcription initiation, bacterial sigma factors	Serine protease precursor MucD/AlgY associated with sigma factor Rp	SCE1572_2316	yes	sce_1863	yes
A	RNA Metabolism	Transcription	Transcription initiation, bacterial sigma factors	RNA polymerase sigma factor SigZ	SCE1572_1023	yes		no
B	Regulation and Cell signaling	Programmed Cell Death and Toxin-antitoxin S	Phd-Doc, YdcE-YdcD toxin-antitoxin (programmed cell death)	Death on curing protein, Doc toxin		no	sce_434	yes
B	Regulation and Cell signaling	Programmed Cell Death and Toxin-antitoxin S	Phd-Doc, YdcE-YdcD toxin-antitoxin (programmed cell death)	Prevent host death protein, Phd antitoxin		no	sce_435	yes
B	Regulation and Cell signaling	Programmed Cell Death and Toxin-antitoxin S	Phd-Doc, YdcE-YdcD toxin-antitoxin (programmed cell death)	Programmed cell death toxin YdcE		no	sce_6022	yes
A and B	Regulation and Cell signaling	no subcategory	Global Two-component Regulator PrrBA in Proteobacteria	Dna binding response regulator PrrA (RegA)	SCE1572_10200	yes	sce_7139	yes
A and B	Regulation and Cell signaling	no subcategory	Global Two-component Regulator PrrBA in Proteobacteria	Sensor histidine kinase PrrB (RegB) (EC 2.7.3.-)	SCE1572_10201	yes	sce_9006	yes
A and B	Regulation and Cell signaling	no subcategory	HPr catabolite repression system	Catabolite control protein A	SCE1572_3157	yes	sce_2645	yes
A and B	Regulation and Cell signaling	no subcategory	HPr catabolite repression system	HPr kinase/phosphorylase (EC 2.7.1.-) (EC 2.7.4.-)	SCE1572_7596	yes	sce_6455	yes
A and B	Regulation and Cell signaling	no subcategory	LysR-family proteins in Escherichia coli	Glycine cleavage system transcriptional activator GcvA	SCE1572_1245	yes	sce_5041	yes
A and B	Regulation and Cell signaling	no subcategory	LysR-family proteins in Escherichia coli	LysR family transcriptional regulator YbhD	SCE1572_2605	yes	sce_2180	yes
A and B	Regulation and Cell signaling	no subcategory	LysR-family proteins in Escherichia coli	LysR family transcriptional regulator YnfL	SCE1572_4744	yes	sce_1246	yes
A and B	Regulation and Cell signaling	no subcategory	LysR-family proteins in Salmonella enterica Typhimurium	LysR family transcriptional regulator STM3121	SCE1572_2067	yes	sce_1578	yes
A and B	Regulation and Cell signaling	no subcategory	LysR-family proteins in Salmonella enterica Typhimurium	LysR family transcriptional regulator YnfL	SCE1572_4744	yes	sce_1246	yes
A and B	Regulation and Cell signaling	no subcategory	Orphan regulatory proteins	Copper sensory histidine kinase CpxA	SCE1572_7189	yes	sce_1882	yes
A and B	Regulation and Cell signaling	no subcategory	Orphan regulatory proteins	Copper-sensing two-component system response regulator CpxR	SCE1572_683	yes	sce_486	yes
A and B	Regulation and Cell signaling	no subcategory	Orphan regulatory proteins	Glycine cleavage system transcriptional activator	SCE1572_3777	yes	sce_3113	yes
A and B	Regulation and Cell signaling	no subcategory	Orphan regulatory proteins	Glycine cleavage system transcriptional activator GcvA	SCE1572_1245	yes	sce_5041	yes
A and B	Regulation and Cell signaling	no subcategory	Orphan regulatory proteins	Sensory histidine kinase CreB	SCE1572_6978	yes	sce_5790	yes
A and B	Regulation and Cell signaling	no subcategory	Stringent Response, (p)ppGpp metabolism	Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydr	SCE1572_5114	yes	sce_4301	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	C4-type zinc finger protein, DksA/TraR family	SCE1572_5038	yes	sce_4239	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	Carbonic anhydrase (EC 4.2.1.1)	SCE1572_1953	yes	sce_1455	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	Cysteinyl-tRNA synthetase (EC 6.1.1.16)	SCE1572_7237	yes	sce_693	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	Dihydroorotase (EC 3.5.2.3)	SCE1572_5734	yes	sce_4784	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	GTP cyclohydrolase I (EC 3.5.4.16) type 1	SCE1572_11540	yes	sce_10389	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	N-acetylmuramoyl-L-alanine amidase (EC 3.5.1.28)	SCE1572_5042	yes	sce_4242	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	Phosphoribosyl-AMP cyclohydrolase (EC 3.5.4.19)	SCE1572_641	yes	sce_450	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	Porphobilinogen synthase (EC 4.2.1.24)	SCE1572_16	yes	sce_16	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	Putative metal chaperone, involved in Zn homeostasis, GTPase of COG	SCE1572_10351	yes	sce_9219	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	Queuosine biosynthesis QueD, PTPS-I	SCE1572_10281	yes	sce_9631	yes
A and B	Regulation and Cell signaling	no subcategory	Zinc regulated enzymes	Zinc uptake regulation protein ZUR	SCE1572_9283	yes	sce_8064	yes
A and B	Regulation and Cell signaling	no subcategory	cAMP signaling in bacteria	ATP-dependent Clp protease proteolytic subunit (EC 3.4.21.92)	SCE1572_4213	yes	sce_2489	yes
A and B	Regulation and Cell signaling	no subcategory	cAMP signaling in bacteria	Adenine phosphoribosyltransferase (EC 2.4.2.7)	SCE1572_4020	yes	sce_3348	yes
A and B	Regulation and Cell signaling	no subcategory	cAMP signaling in bacteria	Adenylate cyclase (EC 4.6.1.1)	SCE1572_430	yes	sce_243	yes
A and B	Regulation and Cell signaling	no subcategory	cAMP signaling in bacteria	Adenylate/guanylate cyclase (EC 4.6.1.2)	SCE1572_872	yes	sce_647	yes
A and B	Regulation and Cell signaling	no subcategory	cAMP signaling in bacteria	Cyclic AMP receptor protein	SCE1572_5007	yes	sce_4209	yes
A and B	Regulation and Cell signaling	no subcategory	cAMP signaling in bacteria	Hydrolase, alpha/beta fold family functionally coupled to Phosphoribulo	SCE1572_3301	yes	sce_2793	yes
A and B	Regulation and Cell signaling	no subcategory	cAMP signaling in bacteria	cAMP-binding proteins - catabolite gene activator and regulatory subun	SCE1572_32	yes	sce_34	yes
A	Regulation and Cell signaling	no subcategory	CytR regulation	Transcriptional (co)regulator CytR	SCE1572_749	yes		no
A	Regulation and Cell signaling	no subcategory	DNA-binding regulatory proteins, strays	Aromatic hydrocarbon utilization transcriptional regulator CatR (LysR f	SCE1572_1153	yes		no
B	Regulation and Cell signaling	no subcategory	LysR-family proteins in Escherichia coli	Hydrogen peroxide-inducible genes activator		no	sce_7788	yes
A and B	Respiration	ATP synthases	F0F1-type ATP synthase	ATP synthase A chain (EC 3.6.3.14)	SCE1572_10106	yes	sce_8924	yes
A and B	Respiration	ATP synthases	F0F1-type ATP synthase	ATP synthase B chain (EC 3.6.3.14)	SCE1572_11597	yes	sce_10460	yes
A and B	Respiration	ATP synthases	F0F1-type ATP synthase	ATP synthase C chain (EC 3.6.3.14)	SCE1572_10107	yes	sce_8925	yes
A and B	Respiration	ATP synthases	F0F1-type ATP synthase	ATP synthase alpha chain (EC 3.6.3.14)	SCE1572_11595	yes	sce_10458	yes
A and B	Respiration	ATP synthases	F0F1-type ATP synthase	ATP synthase beta chain (EC 3.6.3.14)	SCE1572_847	yes	sce_4968	yes
A and B	Respiration	ATP synthases	F0F1-type ATP synthase	ATP synthase delta chain (EC 3.6.3.14)	SCE1572_11596	yes	sce_10459	yes
A and B	Respiration	ATP synthases	F0F1-type ATP synthase	ATP synthase epsilon chain (EC 3.6.3.14)	SCE1572_6016	yes	sce_4969	yes
A and B	Respiration	ATP synthases	F0F1-type ATP synthase	ATP synthase gamma chain (EC 3.6.3.14)	SCE1572_11594	yes	sce_10457	yes
A and B	Respiration	ATP synthases	F0F1-type ATP synthase	ATP synthase protein I	SCE1572_10104	yes	sce_8922	yes
A and B	Respiration	ATP synthases	F0F1-type ATP synthase	FIG048548: ATP synthase protein I2	SCE1572_10105	yes	sce_8923	yes
A and B	Respiration	Electron accepting reactions	Anaerobic respiratory reductases	Anaerobic dehydrogenases, typically selenocysteine-containing	SCE1572_4227	yes	sce_3542	yes
A and B	Respiration	Electron accepting reactions	Anaerobic respiratory reductases	Anaerobic dimethyl sulfoxide reductase chain B (EC 1.8.99.-)	SCE1572_1168	yes	sce_4696	yes
A and B	Respiration	Electron accepting reactions	Anaerobic respiratory reductases	Arsenate reductase (EC 1.20.4.1)	SCE1572_1030	yes	sce_6285	yes
A and B	Respiration	Electron accepting reactions	Anaerobic respiratory reductases	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	SCE1572_1711	yes	sce_1225	yes

A and B	Respiration	Electron accepting reactions	Anaerobic respiratory reductases	Fe-S-cluster-containing hydrogenase components 1	SCE1572_5192	yes	sce_5047	yes
A and B	Respiration	Electron accepting reactions	Anaerobic respiratory reductases	Flavodoxin reductases (ferredoxin-NADPH reductases) family 1	SCE1572_117	yes	sce_105	yes
A and B	Respiration	Electron accepting reactions	Anaerobic respiratory reductases	Vanillate O-demethylase oxidoreductase (EC 1.14.13.-)	SCE1572_451	yes	sce_267	yes
A and B	Respiration	Electron accepting reactions	Cytochrome c oxidases d@O copy	putative Cytochrome bd2, subunit I	SCE1572_3233	yes	sce_2726	yes
A and B	Respiration	Electron accepting reactions	Cytochrome c oxidases d@O copy	putative Cytochrome bd2, subunit II	SCE1572_3234	yes	sce_2727	yes
A and B	Respiration	Electron accepting reactions	Terminal cytochrome C oxidases	Cytochrome c oxidase polypeptide I (EC 1.9.3.1)	SCE1572_6108	yes	sce_5055	yes
A and B	Respiration	Electron accepting reactions	Terminal cytochrome C oxidases	Cytochrome c oxidase polypeptide II (EC 1.9.3.1)	SCE1572_6107	yes	sce_5054	yes
A and B	Respiration	Electron accepting reactions	Terminal cytochrome C oxidases	Cytochrome c oxidase polypeptide III (EC 1.9.3.1)	SCE1572_6109	yes	sce_5056	yes
A and B	Respiration	Electron accepting reactions	Terminal cytochrome C oxidases	Cytochrome c oxidase polypeptide IV(EC 1.9.3.1)	SCE1572_9690	yes	sce_8499	yes
A and B	Respiration	Electron accepting reactions	Terminal cytochrome d ubiquinol oxidases	putative Cytochrome bd2, subunit I	SCE1572_3233	yes	sce_2726	yes
A and B	Respiration	Electron accepting reactions	Terminal cytochrome d ubiquinol oxidases	putative Cytochrome bd2, subunit II	SCE1572_3234	yes	sce_2727	yes
A and B	Respiration	Electron accepting reactions	Terminal cytochrome oxidases	putative Cytochrome bd2, subunit I	SCE1572_3233	yes	sce_2726	yes
A and B	Respiration	Electron accepting reactions	Terminal cytochrome oxidases	putative Cytochrome bd2, subunit II	SCE1572_3234	yes	sce_2727	yes
A and B	Respiration	Electron accepting reactions	Ubiquinone Menaquinone-cytochrome c reductase complexes	Ubiquinol--cytochrome c reductase, cytochrome B subunit (EC 1.10.2.	SCE1572_604	yes	sce_413	yes
A and B	Respiration	Electron accepting reactions	Ubiquinone Menaquinone-cytochrome c reductase complexes	Ubiquinol-cytochrome C reductase iron-sulfur subunit (EC 1.10.2.2)	SCE1572_605	yes	sce_414	yes
A	Respiration	Electron accepting reactions	Cytochrome c oxidases d@O copy	Transport ATP-binding protein CydC	SCE1572_5692	yes		no
A and B	Respiration	Electron donating reactions	Hydrogenases	Fe-S-cluster-containing hydrogenase components 1	SCE1572_5192	yes	sce_5047	yes
A and B	Respiration	Electron donating reactions	Hydrogenases	hydrogenase/sulfur reductase, alpha subunit	SCE1572_8093	yes	sce_5116	yes
A and B	Respiration	Electron donating reactions	Hydrogenases	hydrogenase/sulfur reductase, delta subunit	SCE1572_8094	yes	sce_5115	yes
A and B	Respiration	Electron donating reactions	NiFe hydrogenase maturation	[NiFe] hydrogenase metallocenter assembly protein HypD	SCE1572_8090	yes	sce_5121	yes
A and B	Respiration	Electron donating reactions	NiFe hydrogenase maturation	[NiFe] hydrogenase metallocenter assembly protein HypE	SCE1572_3170	yes	sce_5122	yes
A and B	Respiration	Electron donating reactions	NiFe hydrogenase maturation	[NiFe] hydrogenase metallocenter assembly protein HypF	SCE1572_3169	yes	sce_5119	yes
A and B	Respiration	Electron donating reactions	NiFe hydrogenase maturation	[NiFe] hydrogenase nickel incorporation protein HypA	SCE1572_8091	yes	sce_5118	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	Hypothetical transmembrane protein coupled to NADH-ubiquinone oxi	SCE1572_5654	yes	sce_5358	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NAD(P)H-quinone oxidoreductase chain 1	SCE1572_9659	yes	sce_8466	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NAD(P)H-quinone oxidoreductase chain I (EC 1.6.5.2)	SCE1572_10178	yes	sce_8977	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NAD(P)H-quinone oxidoreductase chain J (EC 1.6.5.2)	SCE1572_10177	yes	sce_8976	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH ubiquinone oxidoreductase chain A (EC 1.6.5.3)	SCE1572_792	yes	sce_585	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain B (EC 1.6.5.3)	SCE1572_793	yes	sce_586	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain C (EC 1.6.5.3)	SCE1572_794	yes	sce_587	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain D (EC 1.6.5.3)	SCE1572_795	yes	sce_588	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain E (EC 1.6.5.3)	SCE1572_5684	yes	sce_4736	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain F (EC 1.6.5.3)	SCE1572_5683	yes	sce_4735	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain G (EC 1.6.5.3)	SCE1572_796	yes	sce_589	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain H (EC 1.6.5.3)	SCE1572_797	yes	sce_590	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain I (EC 1.6.5.3)	SCE1572_798	yes	sce_591	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain J (EC 1.6.5.3)	SCE1572_5682	yes	sce_1234	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain K (EC 1.6.5.3)	SCE1572_5681	yes	sce_4733	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain L (EC 1.6.5.3)	SCE1572_5653	yes	sce_4732	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain M (EC 1.6.5.3)	SCE1572_5652	yes	sce_4731	yes
A and B	Respiration	Electron donating reactions	Respiratory Complex I	NADH-ubiquinone oxidoreductase chain N (EC 1.6.5.3)	SCE1572_5678	yes	sce_4730	yes
A and B	Respiration	Electron donating reactions	Respiratory dehydrogenases 1	Anaerobic glycerol-3-phosphate dehydrogenase subunit A (EC 1.1.5.3)	SCE1572_10981	yes	sce_9703	yes
A and B	Respiration	Electron donating reactions	Respiratory dehydrogenases 1	Anaerobic glycerol-3-phosphate dehydrogenase subunit B (EC 1.1.5.3)	SCE1572_10980	yes	sce_9702	yes
A and B	Respiration	Electron donating reactions	Respiratory dehydrogenases 1	Glycerol dehydrogenase (EC 1.1.1.6)	SCE1572_6356	yes	sce_6038	yes
A and B	Respiration	Electron donating reactions	Respiratory dehydrogenases 1	Glycerol-3-phosphate dehydrogenase (EC 1.1.5.3)	SCE1572_1855	yes	sce_1309	yes
A and B	Respiration	Electron donating reactions	Respiratory dehydrogenases 1	NADH dehydrogenase (EC 1.6.99.3)	SCE1572_557	yes	sce_360	yes
A and B	Respiration	Electron donating reactions	Succinate dehydrogenase	Succinate dehydrogenase cytochrome b subunit	SCE1572_8614	yes	sce_7334	yes
A and B	Respiration	Electron donating reactions	Succinate dehydrogenase	Succinate dehydrogenase cytochrome b558 subunit	SCE1572_10674	yes	sce_9286	yes
A and B	Respiration	Electron donating reactions	Succinate dehydrogenase	Succinate dehydrogenase flavoprotein subunit (EC 1.3.99.1)	SCE1572_8615	yes	sce_3094	yes
A and B	Respiration	Electron donating reactions	Succinate dehydrogenase	Succinate dehydrogenase iron-sulfur protein (EC 1.3.99.1)	SCE1572_8616	yes	sce_7336	yes
B	Respiration	Electron donating reactions	Hydrogenases	Ni,Fe-hydrogenase III large subunit		no	sce_5367	yes
A and B	Respiration	no subcategory	Biogenesis of c-type cytochromes	ABC transporter involved in cytochrome c biogenesis, ATPase compone	SCE1572_10483	yes	sce_9128	yes
A and B	Respiration	no subcategory	Biogenesis of c-type cytochromes	ABC transporter involved in cytochrome c biogenesis, CcmB subunit	SCE1572_3253	yes	sce_2749	yes
A and B	Respiration	no subcategory	Biogenesis of c-type cytochromes	Cytochrome c heme lyase subunit CcmF	SCE1572_10493	yes	sce_9141	yes
A and B	Respiration	no subcategory	Biogenesis of c-type cytochromes	Cytochrome c-type biogenesis protein CcdA (DsbD analog)	SCE1572_10897	yes	sce_9530	yes
A and B	Respiration	no subcategory	Biogenesis of c-type cytochromes	Cytochrome c-type biogenesis protein CcmC, putative heme lyase for C	SCE1572_3875	yes	sce_3198	yes
A and B	Respiration	no subcategory	Biogenesis of c-type cytochromes	Cytochrome c-type biogenesis protein CcmE, heme chaperone	SCE1572_11505	yes	sce_10337	yes
A and B	Respiration	no subcategory	Biogenesis of c-type cytochromes	Cytochrome c-type biogenesis protein DsbD, protein-disulfide reductase	SCE1572_8993	yes	sce_7758	yes
A and B	Respiration	no subcategory	Biogenesis of c-type cytochromes	Periplasmic thiol:disulfide interchange protein DsbA	SCE1572_9668	yes	sce_8476	yes
A and B	Respiration	no subcategory	Biogenesis of c-type cytochromes	Thiol:disulfide oxidoreductase related to ResA	SCE1572_9313	yes	sce_8093	yes
A and B	Respiration	no subcategory	Biogenesis of cytochrome c oxidases	Cytochrome oxidase biogenesis protein Sco1/SenC/PrrC, putative copp	SCE1572_2790	yes	sce_2380	yes
A and B	Respiration	no subcategory	Biogenesis of cytochrome c oxidases	Frataxin homolog CyaY, facilitates iron supply for heme A synthesis or	SCE1572_3370	yes	sce_2860	yes
A and B	Respiration	no subcategory	Biogenesis of cytochrome c oxidases	Heme A synthase, cytochrome oxidase biogenesis protein Cox15-CtaA	SCE1572_3871	yes	sce_3194	yes
A and B	Respiration	no subcategory	Biogenesis of cytochrome c oxidases	Heme O synthase, protoheme IX farnesyltransferase (EC 2.5.1.-) COX	SCE1572_3921	yes	sce_3254	yes
A and B	Respiration	no subcategory	Formate hydrogenase	Formate dehydrogenase chain D (EC 1.2.1.2)	SCE1572_11416	yes	sce_10274	yes
A and B	Respiration	no subcategory	Formate hydrogenase	Formate hydrogenlyase subunit 2	SCE1572_5811	yes	sce_4859	yes
A and B	Respiration	no subcategory	Formate hydrogenase	Formate hydrogenlyase transcriptional activator	SCE1572_2333	yes	sce_1883	yes
A and B	Respiration	no subcategory	Formate hydrogenase	Putative formate dehydrogenase oxidoreductase protein	SCE1572_11420	yes	sce_10275	yes
A and B	Respiration	no subcategory	Quinone oxidoreductase family	Quinone oxidoreductase (EC 1.6.5.5)	SCE1572_1070	yes	sce_2411	yes
A and B	Respiration	no subcategory	Soluble cytochromes and functionally related electron carriers	Cytochrome c552 precursor (EC 1.7.2.2)	SCE1572_2081	yes	sce_1593	yes
A and B	Respiration	no subcategory	Soluble cytochromes and functionally related electron carriers	Ferredoxin	SCE1572_114	yes	sce_1214	yes
A and B	Respiration	no subcategory	Soluble cytochromes and functionally related electron carriers	Ferredoxin, 2Fe-2S	SCE1572_9111	yes	sce_7893	yes
A	Respiration	no subcategory	Carbon monoxide dehydrogenase maturation factors	Carbon monoxide oxidation accessory protein CoxE	SCE1572_3418	yes		no
A	Respiration	no subcategory	Formate hydrogenase	Formate dehydrogenase-O, major subunit (EC 1.2.1.2)	SCE1572_3017	yes		no
B	Respiration	no subcategory	Biogenesis of cytochrome c oxidases	Ferredoxin--NADP() reductase (EC 1.18.1.2)		no	sce_8046	yes
B	Respiration	no subcategory	Formate hydrogenase	Formate hydrogenlyase subunit 3		no	sce_5371	yes
B	Respiration	no subcategory	Formate hydrogenase	Formate hydrogenlyase subunit 4		no	sce_5370	yes
B	Respiration	no subcategory	Formate hydrogenase	Formate hydrogenlyase subunit 7		no	sce_5366	yes
B	Respiration	no subcategory	Formate hydrogenase	Hydrogenase-4 component B (EC 1.-.-.-)		no	sce_5371	yes
B	Respiration	no subcategory	Formate hydrogenase	Hydrogenase-4 component F (EC 1.-.-.-)		no	sce_5368	yes
A and B	Secondary Metabolism	Biosynthesis of phenylpropanoids	Apigenin derivatives	Isoflavone reductase homolog P3 (EC 1.3.1.-)	SCE1572_5607	yes	sce_6014	yes
A and B	Secondary Metabolism	Plant Alkaloids	Alkaloid biosynthesis from L-lysine	Deoxyhypusine synthase	SCE1572_5057	yes	sce_6692	yes
A and B	Secondary Metabolism	no subcategory	Thiazole- oxazole-modified microcin (TOMM) synthesis	AknN	SCE1572_437	yes	sce_251	yes
A and B	Secondary Metabolism	no subcategory	Thiazole- oxazole-modified microcin (TOMM) synthesis	TOMM biosynthesis cyclodehydratase (protein C)	SCE1572_7935	yes	sce_6733	yes
A and B	Secondary Metabolism	no subcategory	Thiazole- oxazole-modified microcin (TOMM) synthesis	TOMM biosynthesis dehydrogenase (protein B)	SCE1572_7936	yes	sce_6734	yes
A and B	Secondary Metabolism	no subcategory	Thiazole- oxazole-modified microcin (TOMM) synthesis	TOMM biosynthesis docking scaffold (protein D)	SCE1572_7935	yes	sce_6733	yes
B	Secondary Metabolism	no subcategory	Lanthionine Synthetases	Lanthionine biosynthesis protein LanB		no	sce_10124	yes
B	Secondary Metabolism	no subcategory	Thiazole- oxazole-modified microcin (TOMM) synthesis	SagD family docking scaffold		no	sce_10126	yes
A and B	Stress Response	Cold shock	Cold shock, CspA family of proteins	Cold shock protein CspG	SCE1572_5074	yes	sce_4263	yes
A and B	Stress Response	Detoxification	D-tyrosyl-tRNA(Tyr) deacylase	D-tyrosyl-tRNA(Tyr) deacylase	SCE1572_8453	yes	sce_7213	yes
A and B	Stress Response	Detoxification	Glutathione-dependent pathway of formaldehyde detoxification	S-(hydroxymethyl)glutathione dehydrogenase (EC 1.1.1.284)	SCE1572_3773	yes	sce_3109	yes
A and B	Stress Response	Detoxification	Uptake of selenate and selenite	DedA protein	SCE1572_8416	yes	sce_7177	yes
A and B	Stress Response	Detoxification	Uptake of selenate and selenite	Sulfate and thiosulfate import ATP-binding protein CysA (EC 3.6.3.25)	SCE1572_9474	yes	sce_8253	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Chaperone protein DnaJ	SCE1572_2243	yes	sce_1795	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Chaperone protein DnaK	SCE1572_3	yes	sce_3	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	FIG001341: Probable Fe(2)-trafficking protein YggX	SCE1572_8333	yes	sce_7016	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Glutathione synthetase (EC 6.3.2.3)	SCE1572_9663	yes	sce_8471	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Heat shock protein GrpE	SCE1572_4	yes	sce_4	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Heat-inducible transcription repressor HrcA	SCE1572_10	yes	sce_10	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Hypothetical radical SAM family enzyme, NOT coproporphyrinogen II	SCE1572_5115	yes	sce_4303	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Nucleoside 5-triphosphatase RdgB (dHAPTP, dITP, XTP-specific) (EC	SCE1572_10103	yes	sce_8921	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	RNA polymerase sigma factor RpoH	SCE1572_1341	yes	sce_965	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Ribonuclease PH (EC 2.7.7.56)	SCE1572_10102	yes	sce_8920	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Ribosomal RNA small subunit methyltransferase E (EC 2.1.1.-)	SCE1572_9144	yes	sce_7942	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Ribosomal protein L11 methyltransferase (EC 2.1.1.-)	SCE1572_9145	yes	sce_4521	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Translation elongation factor LepA	SCE1572_5105	yes	sce_4292	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	Xanthosine/inosine triphosphate pyrophosphatase	SCE1572_3840	yes	sce_3163	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	rRNA small subunit methyltransferase I	SCE1572_11326	yes	sce_10106	yes
A and B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	tmRNA-binding protein SmpB	SCE1572_2190	yes	sce_2564	yes
B	Stress Response	Heat shock	Heat shock dnaK gene cluster extended	MiaB family protein, possibly involved in tRNA or rRNA modification		no	sce_6292	yes
A and B	Stress Response	Osmotic stress	Choline and Betaine Uptake and Betaine Biosynthesis	Choline dehydrogenase (EC 1.1.99.1)	SCE1572_4673	yes	sce_3906	yes
A and B	Stress Response	Osmotic stress	Choline and Betaine Uptake and Betaine Biosynthesis	Choline-sulfatase (EC 3.1.6.6)	SCE1572_2802	yes	sce_8713	yes
A and B	Stress Response	Osmotic stress	Choline and Betaine Uptake and Betaine Biosynthesis	L-proline glycine betaine binding ABC transporter protein ProX (TC 3.	SCE1572_9764	yes	sce_7917	yes
A and B	Stress Response	Osmotic stress	Choline and Betaine Uptake and Betaine Biosynthesis	Sarcosine oxidase beta subunit (EC 1.5.3.1)	SCE1572_996	yes	sce_754	yes
A and B	Stress Response	Osmotic stress	Osmoregulation	Aquaporin Z	SCE1572_1029	yes	sce_2197	yes
A and B	Stress Response	Osmotic stress	Osmoregulation	Outer membrane protein A precursor	SCE1572_6854	yes	sce_4354	yes
A and B	Stress Response	Osmotic stress	Synthesis of osmoregulated periplasmic glucans	Cyclic beta-1,2-glucan synthase (EC 2.4.1.-)	SCE1572_4710	yes	sce_3935	yes
A	Stress Response	Osmotic stress	Choline and Betaine Uptake and Betaine Biosynthesis	L-proline glycine betaine ABC transport system permease protein ProV	SCE1572_9763	yes		no
A and B	Stress Response	Oxidative stress	Glutaredoxins	Glutaredoxin 3	SCE1572_10047	yes	sce_8863	yes
A and B	Stress Response	Oxidative stress	Glutaredoxins	Glutaredoxin-related protein	SCE1572_4016	yes	sce_3870	yes
A and B	Stress Response	Oxidative stress	Glutathione: Biosynthesis and gamma-glutamyl cycle	Gamma-glutamyltranspeptidase (EC 2.3.2.2)	SCE1572_1873	yes	sce_1347	yes
A and B	Stress Response	Oxidative stress	Glutathione: Biosynthesis and gamma-glutamyl cycle	Glutamate--cysteine ligase (EC 6.3.2.2)	SCE1572_7801	yes	sce_6606	yes
A and B	Stress Response	Oxidative stress	Glutathione: Biosynthesis and gamma-glutamyl cycle	Glutathione synthetase (EC 6.3.2.3)	SCE1572_9663	yes	sce_8471	yes
A and B	Stress Response	Oxidative stress	Glutathione: Biosynthesis and gamma-glutamyl cycle	Similar to 5-oxoprolinase (EC 3.5.2.9) and Methylhydantoinases A, B (	SCE1572_5423	yes	sce_4573	yes
A and B	Stress Response	Oxidative stress	Glutathione: Non-redox reactions	Glutathione S-transferase (EC 2.5.1.18)	SCE1572_220	yes	sce_558	yes
A and B	Stress Response	Oxidative stress	Glutathione: Non-redox reactions	Glutathione S-transferase family protein	SCE1572_6610	yes	sce_679	yes
A and B	Stress Response	Oxidative stress	Glutathione: Non-redox reactions	Glutathione S-transferase, phi (EC 2.5.1.18)	SCE1572_6287	yes	sce_5313	yes
A and B	Stress Response	Oxidative stress	Glutathione: Non-redox reactions	Glutathione S-transferase, unnamed subgroup (EC 2.5.1.18)	SCE1572_9034	yes	sce_2440	yes
A and B	Stress Response	Oxidative stress	Glutathione: Non-redox reactions	Glutathione S-transferase, unnamed subgroup 2 (EC 2.5.1.18)	SCE1572_1874	yes	sce_1390	yes
A and B	Stress Response	Oxidative stress	Glutathione: Non-redox reactions	Hydroxyacylglutathione hydrolase (EC 3.1.2.6)	SCE1572_10143	yes	sce_8946	yes
A and B	Stress Response	Oxidative stress	Glutathione: Non-redox reactions	Lactoylglutathione lyase (EC 4.4.1.5)	SCE1572_4796	yes	sce_4011	yes
A and B	Stress Response	Oxidative stress	Glutathione: Non-redox reactions	Uncharacterized glutathione S-transferase-like protein	SCE1572_906	yes	sce_678	yes
A and B	Stress Response	Oxidative stress	Glutathione: Redox cycle	Glutaredoxin 3	SCE1572_10047	yes	sce_8863	yes
A and B	Stress Response	Oxidative stress	Glutathione: Redox cycle	Glutathione reductase (EC 1.8.1.7)	SCE1572_8621	yes	sce_7343	yes
A and B	Stress Response	Oxidative stress	Glutathionylspermidine and Trypanothione	Similarity with glutathionylspermidine synthase (EC 6.3.1.8), group 2	SCE1572_4495	yes	sce_3745	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Alkyl hydroperoxide reductase subunit C-like protein	SCE1572_342	yes	sce_189	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Catalase (EC 1.11.1.6)	SCE1572_375	yes	sce_2350	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Ferric uptake regulation protein FUR	SCE1572_7	yes	sce_7	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Ferroxidase (EC 1.16.3.1)	SCE1572_8389	yes	sce_7622	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Iron-binding ferritin-like antioxidant protein	SCE1572_8389	yes	sce_7622	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Non-specific DNA-binding protein Dps	SCE1572_8389	yes	sce_7622	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Organic hydroperoxide resistance protein	SCE1572_360	yes	sce_201	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Organic hydroperoxide resistance transcriptional regulator	SCE1572_5122	yes	sce_4310	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Peroxide stress regulator PerR, FUR family	SCE1572_2398	yes	sce_1952	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-)	SCE1572_1812	yes	sce_1270	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Rubrerythrin	SCE1572_2399	yes	sce_1953	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Superoxide dismutase [Fe] (EC 1.15.1.1)	SCE1572_6518	yes	sce_4677	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Superoxide dismutase [Mn] (EC 1.15.1.1)	SCE1572_91	yes	sce_79	yes
A and B	Stress Response	Oxidative stress	Oxidative stress	Zinc uptake regulation protein ZUR	SCE1572_9283	yes	sce_8064	yes
A and B	Stress Response	Oxidative stress	Protection from Reactive Oxygen Species	Catalase (EC 1.11.1.6)	SCE1572_375	yes	sce_2350	yes
A and B	Stress Response	Oxidative stress	Protection from Reactive Oxygen Species	Cytochrome c551 peroxidase (EC 1.11.1.5)	SCE1572_555	yes	sce_375	yes
A and B	Stress Response	Oxidative stress	Protection from Reactive Oxygen Species	Superoxide dismutase [Fe] (EC 1.15.1.1)	SCE1572_6518	yes	sce_4677	yes
A and B	Stress Response	Oxidative stress	Redox-dependent regulation of nucleus processes	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1	SCE1572_6421	yes	sce_8225	yes
A and B	Stress Response	Oxidative stress	Redox-dependent regulation of nucleus processes	NAD-dependent protein deacetylase of SIR2 family	SCE1572_901	yes	sce_672	yes
A and B	Stress Response	Oxidative stress	Redox-dependent regulation of nucleus processes	Nicotinamidase (EC 3.5.1.19)	SCE1572_3109	yes	sce_2625	yes
A and B	Stress Response	Oxidative stress	Redox-dependent regulation of nucleus processes	Nicotinate phosphoribosyltransferase (EC 2.4.2.11)	SCE1572_4945	yes	sce_4159	yes
A and B	Stress Response	Oxidative stress	Rubrerythrin	Alkyl hydroperoxide reductase subunit C-like protein	SCE1572_342	yes	sce_189	yes
A and B	Stress Response	Oxidative stress	Rubrerythrin	Fe-S oxidoreductase-like protein in Rubrerythrin cluster	SCE1572_2400	yes	sce_1954	yes
A and B	Stress Response	Oxidative stress	Rubrerythrin	Hypothetical protein i Rubrerythrin cluster	SCE1572_2401	yes	sce_1955	yes
A and B	Stress Response	Oxidative stress	Rubrerythrin	Rubredoxin	SCE1572_575	yes	sce_377	yes
A and B	Stress Response	Oxidative stress	Rubrerythrin	Rubrerythrin	SCE1572_2399	yes	sce_1953	yes
A	Stress Response	Oxidative stress	Glutaredoxins	Glutaredoxin	SCE1572_8479	yes		no
A	Stress Response	Oxidative stress	Glutaredoxins	Periplasmic septal ring factor with murein hydrolase activity EnvC/YibP	SCE1572_10101	yes		no
B	Stress Response	Oxidative stress	Glutaredoxins	Uncharacterized monothiol glutaredoxin ycf64-like		no	sce_7244	yes
B	Stress Response	Oxidative stress	Glutathione: Redox cycle	Glutathione peroxidase (EC 1.11.1.9)		no	sce_9326	yes
B	Stress Response	Oxidative stress	NADPH:quinone oxidoreductase 2	NADPH:quinone oxidoreductase 2		no	sce_7992	yes

B	Stress Response	Oxidative stress	Oxidative stress	Peroxidase (EC 1.11.1.7)		no	sce_2651	yes
A and B	Stress Response	Periplasmic Stress	Periplasmic Stress Response	Intramembrane protease RasP/YluC, implicated in cell division based or	SCE1572_10002	yes	sce_8823	yes
A and B	Stress Response	Periplasmic Stress	Periplasmic Stress Response	Outer membrane protein H precursor	SCE1572_3885	yes	sce_3209	yes
A and B	Stress Response	Periplasmic Stress	Periplasmic Stress Response	Survival protein SurA precursor (Peptidyl-prolyl cis-trans isomerase Sur	SCE1572_1628	yes	sce_1165	yes
A	Stress Response	Periplasmic Stress	Periplasmic Stress Response	Outer membrane stress sensor protease DegS	SCE1572_11251	yes		no
A and B	Stress Response	no subcategory	Bacterial hemoglobins	Hemoglobin-like protein HbO	SCE1572_6687	yes	sce_5569	yes
A and B	Stress Response	no subcategory	Bacterial hemoglobins	Putative bacterial haemoglobin	SCE1572_843	yes	sce_639	yes
A and B	Stress Response	no subcategory	Bacterial hemoglobins	diguanylate cyclase/phosphodiesterase (GGDEF & EAL domains) with	SCE1572_4943	yes	sce_4157	yes
A and B	Stress Response	no subcategory	Carbon Starvation	Carbon starvation protein A	SCE1572_8282	yes	sce_6951	yes
A and B	Stress Response	no subcategory	Carbon Starvation	Stringent starvation protein B	SCE1572_10300	yes	sce_9612	yes
A and B	Stress Response	no subcategory	Hfl operon	GTP-binding protein HflX	SCE1572_634	yes	sce_442	yes
A and B	Stress Response	no subcategory	Hfl operon	GTP-binding protein related to HflX	SCE1572_1805	yes	sce_2389	yes
A and B	Stress Response	no subcategory	SigmaB stress responce regulation	Anti-sigma B factor RsbT	SCE1572_4836	yes	sce_4048	yes
A and B	Stress Response	no subcategory	SigmaB stress responce regulation	Anti-sigma B factor antagonist RsbV	SCE1572_1363	yes	sce_989	yes
A and B	Stress Response	no subcategory	SigmaB stress responce regulation	RNA polymerase sigma factor SigB	SCE1572_3441	yes	sce_2933	yes
A and B	Stress Response	no subcategory	SigmaB stress responce regulation	RsbR, positive regulator of sigma-B	SCE1572_203	yes	sce_202	yes
A and B	Stress Response	no subcategory	SigmaB stress responce regulation	RsbS, negative regulator of sigma-B	SCE1572_4838	yes	sce_4050	yes
A and B	Stress Response	no subcategory	SigmaB stress responce regulation	Serine phosphatase RsbU, regulator of sigma subunit	SCE1572_1359	yes	sce_985	yes
A and B	Stress Response	no subcategory	SigmaB stress responce regulation	Serine-protein kinase RsbW (EC 2.7.11.1)	SCE1572_1364	yes	sce_990	yes
A	Stress Response	no subcategory	Hfl operon	HflC protein	SCE1572_5198	yes		no
B	Stress Response	no subcategory	Universal stress protein family	Universal stress protein family 4		no	sce_135	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	3'(2'),5'-bisphosphate nucleotidase (EC 3.1.3.7)	SCE1572_997	yes	sce_755	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	4Fe-4S ferredoxin, iron-sulfur binding	SCE1572_7434	yes	sce_6211	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Adenylyl-sulfate reductase [thioredoxin] (EC 1.8.4.10)	SCE1572_10665	yes	sce_9273	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Adenylylsulfate kinase (EC 2.7.1.25)	SCE1572_7923	yes	sce_6720	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Ferredoxin	SCE1572_114	yes	sce_1214	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Phosphoadenylyl-sulfate reductase [thioredoxin] (EC 1.8.4.8)	SCE1572_10665	yes	sce_9273	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Sulfate adenylyltransferase, dissimilatory-type (EC 2.7.7.4)	SCE1572_7581	yes	sce_831	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Sulfate and thiosulfate binding protein CysP	SCE1572_560	yes	sce_363	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Sulfate and thiosulfate import ATP-binding protein CysA (EC 3.6.3.25)	SCE1572_9474	yes	sce_8253	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Sulfate transport system permease protein CysT	SCE1572_561	yes	sce_364	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Sulfate transport system permease protein CysW	SCE1572_562	yes	sce_365	yes
A and B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Sulfite reductase [NADPH] hemoprotein beta-component (EC 1.8.1.2)	SCE1572_9694	yes	sce_8504	yes
B	Sulfur Metabolism	Inorganic sulfur assimilation	Inorganic Sulfur Assimilation	Putative sulfate permease		no	sce_5770	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	ABC-type nitrate/sulfonate/bicarbonate transport system, ATPase comp	SCE1572_7361	yes	sce_2072	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	ABC-type nitrate/sulfonate/bicarbonate transport systems, periplasmic c	SCE1572_1390	yes	sce_1570	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	Alkanesulfonate monooxygenase (EC 1.14.14.5)	SCE1572_3149	yes	sce_5504	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	Alkanesulfonates ABC transporter ATP-binding protein	SCE1572_1965	yes	sce_186	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	Alkanesulfonates transport system permease protein	SCE1572_336	yes	sce_185	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	Alkanesulfonates-binding protein	SCE1572_335	yes	sce_184	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	Alpha-ketoglutarate-dependent taurine dioxygenase (EC 1.14.11.17)	SCE1572_122	yes	sce_110	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	Arylsulfatase (EC 3.1.6.1)	SCE1572_277	yes	sce_3154	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	FMN reductase (EC 1.5.1.29)	SCE1572_3151	yes	sce_2640	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonates Utilization	Alkanesulfonate monooxygenase (EC 1.14.14.5)	SCE1572_3149	yes	sce_5504	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonates Utilization	Alkanesulfonates ABC transporter ATP-binding protein	SCE1572_1965	yes	sce_186	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonates Utilization	Alkanesulfonates transport system permease protein	SCE1572_336	yes	sce_185	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonates Utilization	Alkanesulfonates-binding protein	SCE1572_335	yes	sce_184	yes
A and B	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonates Utilization	FMN reductase (EC 1.5.1.29)	SCE1572_3151	yes	sce_2640	yes
A	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	probable dibenzothiophene desulfurization enzyme	SCE1572_3148	yes		no
A	Sulfur Metabolism	Organic sulfur assimilation	Alkanesulfonate assimilation	sulfonate monooxygenase	SCE1572_3145	yes		no
A and B	Sulfur Metabolism	no subcategory	Galactosylceramide and Sulfatide metabolism	Arylsulfatase (EC 3.1.6.1)	SCE1572_277	yes	sce_3154	yes
A and B	Sulfur Metabolism	no subcategory	Galactosylceramide and Sulfatide metabolism	Beta-galactosidase (EC 3.2.1.23)	SCE1572_6701	yes	sce_3424	yes
A and B	Sulfur Metabolism	no subcategory	Thioredoxin-disulfide reductase	Alkyl hydroperoxide reductase subunit C-like protein	SCE1572_342	yes	sce_189	yes
A and B	Sulfur Metabolism	no subcategory	Thioredoxin-disulfide reductase	Thiol peroxidase, Bcp-type (EC 1.11.1.15)	SCE1572_6737	yes	sce_5609	yes
A and B	Sulfur Metabolism	no subcategory	Thioredoxin-disulfide reductase	Thiol peroxidase, Tpx-type (EC 1.11.1.15)	SCE1572_7542	yes	sce_6407	yes
A and B	Sulfur Metabolism	no subcategory	Thioredoxin-disulfide reductase	Thioredoxin reductase (EC 1.8.1.9)	SCE1572_1090	yes	sce_2388	yes
B	Sulfur Metabolism	no subcategory	Thioredoxin-disulfide reductase	Alkyl hydroperoxide reductase protein C (EC 1.6.4.-)		no	sce_7789	yes
B	Sulfur Metabolism	no subcategory	Thioredoxin-disulfide reductase	Alkyl hydroperoxide reductase protein F (EC 1.6.4.-)		no	sce_7790	yes
A and B	Virulence, Disease and Defense	Adhesion	Streptococcus pyogenes recombinatorial zone	Chaperonin (heat shock protein 33)	SCE1572_88	yes	sce_75	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Listeria surface proteins: Internalin-like proteins	Internalin-like protein (LPXTG motif) Lmo0333 homolog	SCE1572_9073	yes	sce_2847	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Listeria surface proteins: Internalin-like proteins	internalin, putative	SCE1572_89	yes	sce_76	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in DNA transcription	DNA-directed RNA polymerase beta subunit (EC 2.7.7.6)	SCE1572_660	yes	sce_466	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in DNA transcription	DNA-directed RNA polymerase beta' subunit (EC 2.7.7.6)	SCE1572_662	yes	sce_468	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in an unknown funct	Inner membrane protein translocase component YidC, long form	SCE1572_3329	yes	sce_2824	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in an unknown funct	Protein YidD	SCE1572_3330	yes	sce_2826	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in an unknown funct	RNA-binding protein Jag	SCE1572_3328	yes	sce_2823	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in fatty acids biosynt	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)	SCE1572_3336	yes	sce_2832	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in fatty acids biosynt	Propionyl-CoA carboxylase beta chain (EC 6.4.1.3)	SCE1572_9348	yes	sce_8129	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in protein synthesis (	LSU ribosomal protein L20p	SCE1572_9326	yes	sce_8106	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in protein synthesis (	LSU ribosomal protein L35p	SCE1572_9327	yes	sce_8107	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in protein synthesis (	Translation initiation factor 3	SCE1572_6061	yes	sce_5011	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in protein synthesis (	SSU ribosomal protein S12p (S23e)	SCE1572_1306	yes	sce_942	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in protein synthesis (	SSU ribosomal protein S7p (S5e)	SCE1572_1307	yes	sce_943	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in protein synthesis (	Translation elongation factor G	SCE1572_962	yes	sce_724	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon involved in protein synthesis (	Translation elongation factor Tu	SCE1572_650	yes	sce_457	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon possibly involved in quinolinat	L-aspartate oxidase (EC 1.4.3.16)	SCE1572_957	yes	sce_719	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon possibly involved in quinolinat	Quinolinate phosphoribosyltransferase [decarboxylating] (EC 2.4.2.19)	SCE1572_3402	yes	sce_2889	yes
A and B	Virulence, Disease and Defense	Invasion and intracellular resistance	Mycobacterium virulence operon possibly involved in quinolinat	Quinolinate synthetase (EC 2.5.1.72)	SCE1572_9526	yes	sce_8310	yes
A	Virulence, Disease and Defense	Invasion and intracellular resistance	Listeria surface proteins: Internalin-like proteins	Internalin A (LPXTG motif)	SCE1572_5861	yes		no
A	Virulence, Disease and Defense	Invasion and intracellular resistance	Listeria surface proteins: Internalin-like proteins	Internalin-like protein (LPXTG motif) Lmo1136 homolog	SCE1572_8446	yes		no
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Adaptation to d-cysteine	D-cysteine desulfhydrase (EC 4.4.1.15)	SCE1572_7567	yes	sce_6422	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Beta-lactamase	Beta-lactamase (EC 3.5.2.6)	SCE1572_2576	yes	sce_5987	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Beta-lactamase	Beta-lactamase class C and other penicillin binding proteins	SCE1572_331	yes	sce_1658	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Beta-lactamase	Metal-dependent hydrolases of the beta-lactamase superfamily I	SCE1572_5796	yes	sce_4843	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Cobalt-zinc-cadmium resistance	Cation efflux system protein CusA	SCE1572_2066	yes	sce_1577	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Cobalt-zinc-cadmium resistance	Cobalt-zinc-cadmium resistance protein	SCE1572_5639	yes	sce_4710	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Cobalt-zinc-cadmium resistance	Cobalt-zinc-cadmium resistance protein CzcA	SCE1572_2066	yes	sce_1577	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Cobalt-zinc-cadmium resistance	Cobalt-zinc-cadmium resistance protein CzcD	SCE1572_9765	yes	sce_612	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Cobalt-zinc-cadmium resistance	Cobalt/zinc/cadmium efflux RND transporter, membrane fusion protein	SCE1572_11021	yes	sce_9734	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Cobalt-zinc-cadmium resistance	Heavy metal RND efflux outer membrane protein, CzcC family	SCE1572_10371	yes	sce_8772	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Cobalt-zinc-cadmium resistance	Probable Co/Zn/Cd efflux system membrane fusion protein	SCE1572_1575	yes	sce_1126	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Cobalt-zinc-cadmium resistance	Transcriptional regulator, MerR family	SCE1572_879	yes	sce_654	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Copper homeostasis	Blue copper oxidase CueO precursor	SCE1572_10221	yes	sce_2358	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Copper homeostasis	Copper resistance protein B	SCE1572_536	yes	sce_342	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Copper homeostasis	Copper tolerance protein	SCE1572_767	yes	sce_565	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Copper homeostasis	Copper-translocating P-type ATPase (EC 3.6.3.4)	SCE1572_6	yes	sce_6	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Copper homeostasis	Cytochrome c heme lyase subunit CcmF	SCE1572_10493	yes	sce_9141	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Copper homeostasis	Multicopper oxidase	SCE1572_768	yes	sce_566	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Copper homeostasis: copper tolerance	Copper homeostasis protein CutE	SCE1572_26	yes	sce_28	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Copper homeostasis: copper tolerance	Magnesium and cobalt efflux protein CorC	SCE1572_5751	yes	sce_4801	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Multidrug Resistance Efflux Pumps	Acriflavin resistance protein	SCE1572_1731	yes	sce_1814	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Multidrug Resistance Efflux Pumps	Macrolide export ATP-binding/permease protein MacB (EC 3.6.3.-)	SCE1572_1576	yes	sce_5393	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Multidrug Resistance Efflux Pumps	Macrolide-specific efflux protein MacA	SCE1572_6365	yes	sce_8084	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Multidrug Resistance Efflux Pumps	Multi antimicrobial extrusion protein (Na()/drug antiporter), MATE fam	SCE1572_6146	yes	sce_4593	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Resistance to Vancomycin	Vancomycin B-type resistance protein VanW	SCE1572_7170	yes	sce_5899	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Resistance to chromium compounds	Chromate transport protein ChrA	SCE1572_11486	yes	sce_10322	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Resistance to fluoroquinolones	DNA gyrase subunit A (EC 5.99.1.3)	SCE1572_4963	yes	sce_4070	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Resistance to fluoroquinolones	DNA gyrase subunit B (EC 5.99.1.3)	SCE1572_10487	yes	sce_9133	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Resistance to fluoroquinolones	Topoisomerase IV subunit A (EC 5.99.1.-)	SCE1572_6023	yes	sce_4976	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Resistance to fluoroquinolones	Topoisomerase IV subunit B (EC 5.99.1.-)	SCE1572_6024	yes	sce_4977	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Zinc resistance	Response regulator of zinc sigma-54-dependent two-component system	SCE1572_383	yes	sce_497	yes
A and B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Zinc resistance	Sensor protein of zinc sigma-54-dependent two-component system	SCE1572_3261	yes	sce_2756	yes
A	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Copper homeostasis	Multidrug resistance transporter, Bcr/CflA family	SCE1572_9445	yes		no
A	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Multidrug Resistance Efflux Pumps	RND efflux system, inner membrane transporter CmeB	SCE1572_5527	yes		no
A	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Multidrug Resistance Efflux Pumps	RND efflux system, membrane fusion protein CmeA	SCE1572_5526	yes		no
A	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Multidrug Resistance Efflux Pumps	Transcription repressor of multidrug efflux pump acrAB operon, TetR (	SCE1572_6118	yes		no
B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Beta-lactamase	Beta-lactamase repressor BlaI		no	sce_7398	yes
B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Beta-lactamase	Regulatory protein BlaR1		no	sce_7397	yes
B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Cobalt-zinc-cadmium resistance	DNA-binding heavy metal response regulator		no	sce_3686	yes
B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Cobalt-zinc-cadmium resistance	Heavy metal sensor histidine kinase		no	sce_3685	yes
B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Fosfomycin resistance	Fosfomycin resistance protein FosA		no	sce_9994	yes
B	Virulence, Disease and Defense	Resistance to antibiotics and toxic compounds	Mercuric reductase	PF00070 family, FAD-dependent NAD(P)-disulphide oxidoreductase		no	sce_2594	yes

[*] A. *Sorangium cellulosum* So0157-2 B. *S. cellulosum* So ce56

TableS9 A comparison of sequence similarity for So0157-2 and So ce56

Locus tag (*Sorangium cellulosum* So0157-2)	Function	Hit	Locus tag (*S. cellulosum* So ce56)	percent identity	Function
SCE1572_1	Chromosomal replication initiator protein DnaA	bi	sce_1	98.73	Chromosomal replication initiator protein DnaA
SCE1572_2	Serine/threonine protein kinase PrkC, regulator of stationary phase	bi	sce_2	93.42	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_3	Chaperone protein DnaK	bi	sce_3	95.97	Chaperone protein DnaK
SCE1572_4	Heat shock protein GrpE	bi	sce_4	91.75	Heat shock protein GrpE
SCE1572_5	Succinylornithine transaminase (EC 2.6.1.81)	bi	sce_5	94.52	Succinylornithine transaminase (EC 2.6.1.81)
SCE1572_6	Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.	bi	sce_6	91.41	Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.6.3.4)
SCE1572_7	Ferric uptake regulation protein FUR	bi	sce_7	90	Ferric uptake regulation protein FUR
SCE1572_8	FIG01089057: hypothetical protein	bi	sce_8	89.89	FIG01089057: hypothetical protein
SCE1572_9	FIG01085619: hypothetical protein	bi	sce_9	88.3	FIG01085619: hypothetical protein
SCE1572_10	Heat-inducible transcription repressor HrcA	bi	sce_10	95.68	Heat-inducible transcription repressor HrcA
SCE1572_11	Ribosomal large subunit pseudouridine synthase D (EC 4.2.1.70)	bi	sce_11	91.85	Ribosomal large subunit pseudouridine synthase D (EC 4.2.1.70)
SCE1572_12	response regulator receiver protein	bi	sce_12	94.83	response regulator receiver protein
SCE1572_13	Polymyxin resistance protein ArnT, undecaprenyl phosphate-alpha-L-Ara4N transferase; Melittin resistance protein PqaB	bi	sce_13	86.39	Polymyxin resistance protein ArnT, undecaprenyl phosphate-alpha-L-Ara4N transferase; Melittin resistance protein PqaB
SCE1572_14	Uroporphyrinogen-III methyltransferase (EC 2.1.1.107) / Uroporphyrinogen-III synthase (EC 4.2.1.75)	bi	sce_14	90.56	Uroporphyrinogen-III methyltransferase (EC 2.1.1.107) / Uroporphyrinogen-III synthase (EC 4.2.1.75)
SCE1572_15	hypothetical protein	bi	sce_15	73.33	hypothetical protein
SCE1572_16	Porphobilinogen synthase (EC 4.2.1.24)	bi	sce_16	96.94	Porphobilinogen synthase (EC 4.2.1.24)
SCE1572_17	hypothetical protein	bi	sce_17	72.73	hypothetical protein
SCE1572_18	ABC transporter, ATP-binding protein	bi	sce_18	92.19	ABC transporter, ATP-binding protein
SCE1572_19	Lipid A export ATP-binding/permease protein MsbA	bi	sce_19	92.64	Lipid A export ATP-binding/permease protein MsbA
SCE1572_20	TolA protein	bi	sce_20	92.39	TolA protein
SCE1572_21	conserved hypothetical protein	bi	sce_22	81.13	hypothetical protein
SCE1572_22	serine/threonine protein kinase	bi	sce_23	96.2	serine/threonine protein kinase
SCE1572_23	conserved hypothetical protein	bi	sce_24	87.68	HAD-superfamily hydrolase, subfamily IIB
SCE1572_24	LSU m5C1962 methyltransferase RlmI	bi	sce_25	97.1	LSU m5C1962 methyltransferase RlmI
SCE1572_25	hypothetical protein	bi	sce_27	79.42	Bll4862 protein
SCE1572_26	Apolipoprotein N-acyltransferase (EC 2.3.1.-) / Copper homeostasis protein CutE	bi	sce_28	87.31	Apolipoprotein N-acyltransferase (EC 2.3.1.-) / Copper homeostasis protein CutE
SCE1572_27	DNA-binding protein BpH2	bi	sce_29	98.04	histone-like DNA-binding protein
SCE1572_28	Metal-dependent hydrolase YbeY, involved in rRNA and/or ribosome maturation and assembly	bi	sce_30	88.06	Metal-dependent hydrolase YbeY, involved in rRNA and/or ribosome maturation and assembly
SCE1572_29	Transaldolase (EC 2.2.1.2)	bi	sce_31	91.67	Transaldolase (EC 2.2.1.2)
SCE1572_30	Protein export cytoplasm protein SecA ATPase RNA helicase (TC 3.A.5.1.1)	bi	sce_32	96.24	Protein export cytoplasm protein SecA ATPase RNA helicase (TC 3.A.5.1.1)
SCE1572_31	hypothetical protein	bi	sce_33	74.3	hypothetical protein
SCE1572_32	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	bi	sce_34	81.55	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases
SCE1572_33	RNA polymerase sigma-54 factor RpoN	bi	sce_35	98.42	RNA polymerase sigma-54 factor RpoN
SCE1572_34	hypothetical protein	bi	sce_36	87.88	hypothetical protein
SCE1572_35	hypothetical protein	bi	sce_37	93.37	hypothetical protein
SCE1572_36	Fructose-6-phosphate-2-kinase/fructose-2, 6-bisphosphatase	bi	sce_38	97.86	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
SCE1572_37	UPF0124 protein Rv2149c/MT2208	bi	sce_39	90.74	UPF0124 protein Rv2149c/MT2208
SCE1572_38	Serine/threonine protein kinase PrkC, regulator of stationary phase	bi	sce_40	95.51	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_39	Multimodular transpeptidase-transglycosylase (EC 2.4.1.129) (EC 3.4.-.-)	bi	sce_41	86.83	Multimodular transpeptidase-transglycosylase (EC 2.4.1.129) (EC 3.4.-.-)
SCE1572_40	hypothetical protein	-		0	
SCE1572_41	PE_PGRS family protein	bi	sce_42	85.53	PE_PGRS family protein
SCE1572_42	Threonine dehydrogenase and related Zn-dependent dehydrogenases	uni	sce_6150	70.18	Threonine dehydrogenase and related Zn-dependent dehydrogenases
SCE1572_43	COG5637: Predicted integral membrane protein	uni	sce_6149	29.41	cyclase/dehydrase
SCE1572_44	hypothetical protein	bi	sce_43	85.8	hypothetical protein
SCE1572_45	serine/threonine protein kinase	bi	sce_44	78.34	serine/threonine protein kinase
SCE1572_46	zinc carboxypeptidase-related protein	bi	sce_45	85.45	Carboxypeptidase A1 precursor (EC 3.4.17.1)
SCE1572_47	Agmatinase (EC 3.5.3.11)	bi	sce_46	93.67	Agmatinase (EC 3.5.3.11)
SCE1572_48	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)	bi	sce_47	86.1	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)
SCE1572_49	ribosomal-protein-alanine acetyltransferase	bi	sce_48	92.47	ribosomal-protein-alanine acetyltransferase
SCE1572_50	Oxidoreductase	bi	sce_49	83.74	Oxidoreductase
SCE1572_51	hypothetical protein	uni	sce_5213	41.96	FIG01089581: hypothetical protein
SCE1572_52	hypothetical protein	-		0	
SCE1572_53	VgrG protein	uni	sce_9404	56.54	VgrG protein
SCE1572_54	hypothetical protein	uni	sce_116	36.86	FIG01088201: hypothetical protein
SCE1572_55	Rhs family protein	uni	sce_8347	41.96	Rhs family protein
SCE1572_56	hypothetical protein	-		0	
SCE1572_57	LOC432261 protein	bi	sce_6260	54.82	LOC432261 protein
SCE1572_58	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)	uni	sce_6257	61.9	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)
SCE1572_59	RD1 region associated protein Rv3879c	bi	sce_6258	64.96	RD1 region associated protein Rv3879c
SCE1572_60	Enoyl-CoA hydratase (EC 4.2.1.17) / Delta(3)-cis-delta(2)-trans-enoyl-CoA isomerase (EC 5.3.3.8) / 3-hydroxyacyl-CoA dehy	bi	sce_50	89.64	Enoyl-CoA hydratase (EC 4.2.1.17) / Delta(3)-cis-delta(2)-trans-enoyl-CoA isomerase (EC 5.3.3.8) / 3-hydroxyacyl-CoA dehydroge
SCE1572_61	3-ketoacyl-CoA thiolase (EC 2.3.1.16) @ Acetyl-CoA acetyltransferase (EC 2.3.1.9)	bi	sce_51	94.5	3-ketoacyl-CoA thiolase (EC 2.3.1.16) @ Acetyl-CoA acetyltransferase (EC 2.3.1.9)
SCE1572_62	hypothetical protein	-		0	
SCE1572_63	hypothetical protein	bi	sce_54	87.96	hypothetical protein
SCE1572_64	FIG01089490: hypothetical protein	bi	sce_55	73.4	FIG01089490: hypothetical protein
SCE1572_65	FIG01087520: hypothetical protein	bi	sce_56	77.57	FIG01087520: hypothetical protein
SCE1572_66	FIG01086441: hypothetical protein	bi	sce_58	86.35	FIG01086441: hypothetical protein
SCE1572_67	hypothetical protein	bi	sce_60	73.68	hypothetical protein
SCE1572_68	Thrombospondin	bi	sce_61	68.84	Thrombospondin
SCE1572_69	FIG01084899: hypothetical protein	bi	sce_62	63.18	FIG01084899: hypothetical protein
SCE1572_70	Gll4200 protein	bi	sce_63	58.8	Gll4200 protein
SCE1572_71	hypothetical protein	bi	sce_64	78.25	hypothetical protein
SCE1572_72	Serine-threonine protein kinase	bi	sce_65	71.11	Serine-threonine protein kinase
SCE1572_73	cyclic nucleotide-binding domain protein	bi	sce_66	94.68	cyclic nucleotide-binding domain protein
SCE1572_74	Dienelactone hydrolase family	bi	sce_67	91.48	Dienelactone hydrolase family
SCE1572_75	hypothetical protein	bi	sce_68	89.62	hypothetical protein
SCE1572_76	hypothetical protein	-		0	
SCE1572_77	aminotransferase, class I and II	bi	sce_69	83.82	Transcriptional regulator, GntR family domain
SCE1572_78	putative lipoprotein	bi	sce_70	70.78	endoglucanase A(EC:3.2.1.4)
SCE1572_79	DNA polymerase, beta domain protein region	-		0	
SCE1572_80	L-arabinose-binding periplasmic protein precursor AraF (TC 3.A.1.2.2)	uni	sce_6717	43.8	Xylose ABC transporter, periplasmic xylose-binding protein XylF
SCE1572_81	ABC transporter related	uni	sce_4511	57.14	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)
SCE1572_82	hypothetical protein	-		0	
SCE1572_83	ribose transport system permease protein RbsC(EC:3.6.3.17)	uni	sce_3725	41.32	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_84	hypothetical protein	bi	sce_71	84.97	hypothetical protein
SCE1572_85	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases	bi	sce_73	79.16	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases
SCE1572_86	hypothetical protein	-		0	
SCE1572_87	Transcriptional regulator, TetR family	bi	sce_74	85.78	Transcriptional regulator, TetR family
SCE1572_88	Chaperonin (heat shock protein 33)	bi	sce_75	92.36	Chaperonin (heat shock protein 33)
SCE1572_89	internalin, putative	bi	sce_76	78.34	internalin, putative
SCE1572_90	outer membrane protein OmpA	bi	sce_77	89.64	outer membrane protein OmpA
SCE1572_91	Superoxide dismutase [Mn] (EC 1.15.1.1)	bi	sce_79	92.96	Superoxide dismutase [Mn] (EC 1.15.1.1)
SCE1572_92	Acetylglutamate kinase (EC 2.7.2.8)	bi	sce_81	94.36	Acetylglutamate kinase (EC 2.7.2.8)
SCE1572_93	N-acetylornithine carbamoyltransferase (EC 2.1.3.9)	bi	sce_82	96.1	N-acetylornithine carbamoyltransferase (EC 2.1.3.9)
SCE1572_94	hypothetical protein	bi	sce_83	89.9	hypothetical protein
SCE1572_95	acetyltransferase	bi	sce_84	84.62	hypothetical protein
SCE1572_96	hypothetical protein	bi	sce_2027	70.45	hypothetical protein
SCE1572_97	hypothetical protein	uni	sce_5129	37.91	serine/threonine protein kinase
SCE1572_98	hypothetical protein	-		0	
SCE1572_99	hypothetical protein	uni	sce_1997	60.34	FIG01087771: hypothetical protein
SCE1572_100	UvrD/REP helicase	bi	sce_87	91.04	UvrD/REP helicase
SCE1572_101	hypothetical protein	-		0	
SCE1572_102	hypothetical protein	bi	sce_88	85.85	hypothetical protein
SCE1572_103	hypothetical protein	bi	sce_89	87.04	hypothetical protein
SCE1572_104	1,4-dihydroxy-2-naphthoate octaprenyltransferase (EC 2.5.1.74)	bi	sce_90	87.87	1,4-dihydroxy-2-naphthoate octaprenyltransferase (EC 2.5.1.74)
SCE1572_105	hypothetical protein	bi	sce_91	80.95	hypothetical protein
SCE1572_106	Proline-rich protein	uni	sce_6423	32.66	Proline-rich protein
SCE1572_107	3-isopropylmalate dehydratase small subunit (EC 4.2.1.33)	bi	sce_95	91.22	3-isopropylmalate dehydratase small subunit (EC 4.2.1.33)
SCE1572_108	3-isopropylmalate dehydratase large subunit (EC 4.2.1.33)	bi	sce_96	96.59	3-isopropylmalate dehydratase large subunit (EC 4.2.1.33)
SCE1572_109	transcriptional regulator, LysR family	bi	sce_97	95.36	transcriptional regulator, LysR family
SCE1572_110	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)	bi	sce_98	96.1	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)
SCE1572_111	Transcriptional regulator, AraC family	bi	sce_99	84.42	Transcriptional regulator, AraC family
SCE1572_112	FIG01087827: hypothetical protein	uni	sce_7999	84.64	FIG01087792: hypothetical protein
SCE1572_113	FIG01087441: hypothetical protein	bi	sce_101	82.71	FIG01087441: hypothetical protein
SCE1572_114	Ferredoxin	bi	sce_102	84.72	hypothetical protein
SCE1572_115	hypothetical protein	bi	sce_103	92.66	hypothetical protein
SCE1572_116	hypothetical protein	bi	sce_104	87.08	hypothetical protein
SCE1572_117	Flavodoxin reductases (ferredoxin-NADPH reductases) family 1	bi	sce_105	87.59	Flavodoxin reductases (ferredoxin-NADPH reductases) family 1
SCE1572_118	Bll7875 protein	bi	sce_106	90.51	hypothetical protein
SCE1572_119	hydrolase, alpha/beta fold family	bi	sce_107	87.41	hydrolase, alpha/beta fold family
SCE1572_120	Putative carboxymethylenebutenolidase (EC 3.1.1.45)	bi	sce_108	88.52	dienelactone hydrolase(EC:3.1.1.45)
SCE1572_121	probable dienelactone hydrolase protein	bi	sce_109	86.97	dienelactone hydrolase family protein
SCE1572_122	Alpha-ketoglutarate-dependent taurine dioxygenase (EC 1.14.11.17)	bi	sce_110	95.72	Alpha-ketoglutarate-dependent taurine dioxygenase (EC 1.14.11.17)
SCE1572_123	hypothetical protein	-		0	
SCE1572_124	hypothetical protein	-		0	
SCE1572_125	hypothetical protein	bi	sce_125	83.19	hypothetical protein
SCE1572_126	Glutamyl-tRNA(Gln) amidotransferase subunit A-like protein	bi	sce_127	85.87	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_127	FIG01088941: hypothetical protein	bi	sce_128	83.33	FIG01088941: hypothetical protein
SCE1572_128	hypothetical protein	-		0	
SCE1572_129	Methyltransferase	uni	sce_2123	46.15	Methyltransferase
SCE1572_130	hypothetical protein	-		0	
SCE1572_131	hypothetical protein	bi	sce_129	92.7	hypothetical protein
SCE1572_132	internalin, putative	bi	sce_130	80.38	internalin, putative
SCE1572_133	outer membrane protein OmpA	bi	sce_131	91.65	outer membrane protein OmpA
SCE1572_134	hypothetical protein	-		0	
SCE1572_135	hypothetical protein	bi	sce_9966	81.23	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_136	hypothetical protein	bi	sce_9965	87.83	Cellulase(EC:3.2.1.4)
SCE1572_137	putative cytochrome P450 hydroxylase	bi	sce_133	82.43	putative cytochrome P450 hydroxylase
SCE1572_138	FIG01089623: hypothetical protein	uni	sce_220	78.72	FIG01089623: hypothetical protein
SCE1572_139	FIG01089623: hypothetical protein	uni	sce_220	78.4	FIG01089623: hypothetical protein
SCE1572_140	DNA repair protein RadC	uni	sce_8397	55	DNA repair protein RadC
SCE1572_141	hypothetical protein	uni	sce_513	76.96	FIG01087636: hypothetical protein
SCE1572_142	hypothetical protein	bi	sce_3623	88.58	FIG01085486: hypothetical protein
SCE1572_143	Gsr1690 protein	uni	sce_1297	54.93	hypothetical protein
SCE1572_144	Plasmid stabilization system protein	bi	sce_1298	48.28	hypothetical protein
SCE1572_145	hypothetical protein	bi	sce_6050	69.94	hypothetical protein
SCE1572_146	hypothetical protein	bi	sce_6051	89.96	hypothetical protein
SCE1572_147	hypothetical protein	bi	sce_6052	91.3	hypothetical protein
SCE1572_148	Phage shock protein A	uni	sce_6125	50.72	Phage shock protein A
SCE1572_149	conserved hypothetical protein	bi	sce_1469	49.86	FIG01086976: hypothetical protein
SCE1572_150	antenna complex, alpha/beta subunit	bi	sce_138	80.25	FIG01088764: hypothetical protein
SCE1572_151	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.A.1.4.1)	uni	sce_9572	43.04	Oligopeptide transport ATP-binding protein OppF (TC 3.A.1.5.1)
SCE1572_152	ABC transporter ATP-binding protein	uni	sce_6248	28.69	Urea ABC transporter, permease protein UrtC
SCE1572_153	High-affinity branched-chain amino acid transport system permease protein LivH (TC 3.A.1.4.1)	uni	sce_3979	35.57	RIBOSE TRANSPORT SYSTEM PERMEASE PROTEIN RBSC
SCE1572_154	hypothetical protein	uni	sce_6246	27.05	Urea ABC transporter, substrate binding protein UrtA
SCE1572_155	Methionyl-tRNA synthetase (EC 6.1.1.10)	bi	sce_140	88.51	Methionyl-tRNA synthetase (EC 6.1.1.10)
SCE1572_156	putative lipoprotein	bi	sce_141	78.4	hypothetical protein
SCE1572_157	serine/threonine protein kinase	uni	sce_5982	75.05	serine/threonine protein kinase
SCE1572_158	hypothetical protein	bi	sce_3489	70.94	hypothetical protein
SCE1572_159	FIG01085038: hypothetical protein	bi	sce_5980	85.69	FIG01085038: hypothetical protein
SCE1572_160	hypothetical protein	-		0	
SCE1572_161	hypothetical protein	bi	sce_8630	81.19	hypothetical protein

SCE1572_162	metallophosphoesterase	bi	sce_8629	91.55	metallophosphoesterase
SCE1572_163	EBNA-1	uni	sce_6758	38.47	FIG01086116: hypothetical protein
SCE1572_164	Cystathionine gamma-lyase (EC 4.4.1.1)	uni	sce_6912	45.55	Cystathionine gamma-lyase (EC 4.4.1.1)
SCE1572_165	Bifunctional protein: zinc-containing alcohol dehydrogenase; quinone oxidoreductase (NADPH:quinone reductase) (EC 1.1.1.	bi	sce_147	85.5	Bifunctional protein: zinc-containing alcohol dehydrogenase; quinone oxidoreductase (NADPH:quinone reductase) (EC 1.1.1.-); Sin
SCE1572_166	hypothetical protein	-		0	
SCE1572_167	hypothetical protein	-		0	
SCE1572_168	SSU ribosomal protein S24e	bi	sce_148	61.46	FIG01086802: hypothetical protein
SCE1572_169	gnl|WGS:AAAB|agCP13423|gb|EAA06237	bi	sce_149	71.43	hypothetical protein
SCE1572_170	conserved hypothetical protein	bi	sce_151	87.69	conserved hypothetical protein
SCE1572_171	Msl3173 protein	bi	sce_152	85.71	Msl3173 protein
SCE1572_172	hypothetical protein	-		0	
SCE1572_173	FIG01086777: hypothetical protein	bi	sce_153	61.24	FIG01086777: hypothetical protein
SCE1572_174	hypothetical protein	bi	sce_154	84.5	hypothetical protein
SCE1572_175	hypothetical protein	bi	sce_155	93.33	conserved hypothetical protein
SCE1572_176	predicted protein	bi	sce_156	87.74	predicted protein
SCE1572_177	short-chain dehydrogenase/reductase SDR	bi	sce_7124	85.88	short-chain dehydrogenase/reductase SDR
SCE1572_178	hypothetical protein	-		0	
SCE1572_179	hypothetical protein	bi	sce_159	84.59	hypothetical protein
SCE1572_180	hypothetical protein	-		0	
SCE1572_181	probable oxygenase	bi	sce_1372	93.78	probable oxygenase
SCE1572_182	FIG01087706: hypothetical protein	bi	sce_868	75.55	FIG01087706: hypothetical protein
SCE1572_183	F5/8 type C domain protein	bi	sce_9533	85.14	F5/8 type C domain protein
SCE1572_184	hypothetical protein	-		0	
SCE1572_185	PE-PGRS family protein	bi	sce_7864	68.93	1,4-beta-cellobiosidase
SCE1572_186	Transcriptional regulator, AraC family	bi	sce_7863	83.85	Transcriptional regulator, AraC family
SCE1572_187	NAD(P)H oxidoreductase YRKL (EC 1.6.99.-) @ Putative NADPH-quinone reductase (modulator of drug activity B) @ Flavo	uni	sce_9440	28.04	NAD(P)H dehydrogenase (quinone)
SCE1572_188	integral membrane protein	bi	sce_171	84.36	integral membrane protein
SCE1572_189	Erythrocyte membrane protein 1	bi	sce_172	76.13	FIG01086900: hypothetical protein
SCE1572_190	putative lipoprotein	bi	sce_3728	86.86	putative lipoprotein
SCE1572_191	Nodulation protein nolO (EC 2.1.3.-)	uni	sce_2688	40.64	Nodulation protein nolO (EC 2.1.3.-)
SCE1572_192	hypothetical protein	-		0	
SCE1572_193	Fe-S oxidoreductase	uni	sce_7488	24.38	Coenzyme PQQ synthesis protein E (Pyrroloquinoline quinone biosynthesis protein E)
SCE1572_194	hypothetical protein	-		0	
SCE1572_195	hypothetical protein	-		0	
SCE1572_196	Twin-arginine translocation pathway signal	-		0	
SCE1572_197	COG3899: Predicted ATPase	uni	sce_919	40	Response regulator receiver:ATP-binding region, ATPase-like:Histidine kinase A, N-terminal
SCE1572_198	sensor histidine kinase with multiple PAS and a response regulator receiver domain	uni	sce_229	40.05	FOG: PAS/PAC domain
SCE1572_199	succinyl-diaminopimelate desuccinylase	bi	sce_173	90.93	Succinyl-diaminopimelate desuccinylase
SCE1572_200	hypothetical protein; putative Lanthionine synthetase C-like protein	bi	sce_6011	44.29	hypothetical protein; putative Lanthionine synthetase C-like protein
SCE1572_201	hypothetical protein	-		0	
SCE1572_202	hypothetical protein	-		0	
SCE1572_203	RsbR, positive regulator of sigma-B	bi	sce_1460	80.48	RsbR, positive regulator of sigma-B
SCE1572_204	cell surface protein	-		0	
SCE1572_205	FIG01086206: hypothetical protein	bi	sce_6005	85.9	FIG01086206: hypothetical protein
SCE1572_206	hypothetical protein	-		0	
SCE1572_207	hypothetical protein	-		0	
SCE1572_208	hypothetical protein	-		0	
SCE1572_209	transcriptional activator domain	uni	sce_8789	30.74	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_210	putative oxidoreductase	uni	sce_4749	35.76	Oxidoreductase
SCE1572_211	Galactose/methyl galactoside ABC transport system, permease protein MglC (TC 3.A.1.2.3)	uni	sce_6146	34.12	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_212	Galactose/methyl galactoside ABC transport system, ATP-binding protein MglA (EC 3.6.3.17)	uni	sce_3480	44.95	D-xylose transport ATP-binding protein XylG
SCE1572_213	Galactose/methyl galactoside ABC transport system, D-galactose-binding periplasmic protein MglB (TC 3.A.1.2.3)	uni	sce_3709	27.21	Putative sugar ABC transport system, periplasmic binding protein YtfQ precursor
SCE1572_214	FIG01088228: hypothetical protein	bi	sce_2528	97.56	FIG01088228: hypothetical protein
SCE1572_215	NAD binding oxidoreductase	bi	sce_6003	89.39	NAD binding oxidoreductase
SCE1572_216	hypothetical protein	-		0	
SCE1572_217	membrane-bound metal-dependent hydrolase	-		0	
SCE1572_218	conserved hypothetical protein	-		0	
SCE1572_219	hypothetical protein	bi	sce_5881	91.13	hypothetical protein
SCE1572_220	Glutathione S-transferase (EC 2.5.1.18)	uni	sce_7306	45.5	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_221	AAA ATPase, central region	uni	sce_3102	34.51	Cell division protein FtsH (EC 3.4.24.-)
SCE1572_222	Glutathione S-transferase	bi	sce_10163	97.38	Glutathione S-transferase
SCE1572_223	Transcriptional regulator, LysR family	bi	sce_9852	85.86	Transcriptional regulator, LysR family
SCE1572_224	Beta-lactamase-like precursor	bi	sce_9851	82.76	Beta-lactamase-like precursor
SCE1572_225	hypothetical protein	-		0	
SCE1572_226	hypothetical protein	uni	sce_2494	49.76	metal dependent phosphohydrolase
SCE1572_227	Transcriptional regulator, AraC family	uni	sce_9866	50	Transcriptional regulator, AraC family
SCE1572_228	hypothetical protein	-		0	
SCE1572_229	hypothetical protein	bi	sce_3088	37.61	hypothetical protein
SCE1572_230	hypothetical protein	bi	sce_3089	44.14	hypothetical protein
SCE1572_231	hypothetical protein	-		0	
SCE1572_232	hypothetical protein	-		0	
SCE1572_233	hypothetical protein	uni	sce_1297	37.7	hypothetical protein
SCE1572_234	FIG01087333: hypothetical protein	bi	sce_5301	84.62	FIG01087333: hypothetical protein
SCE1572_235	hypothetical protein	bi	sce_5302	90.36	hypothetical protein
SCE1572_236	DNA repair protein RadC	uni	sce_8397	89.13	DNA repair protein RadC
SCE1572_237	hypothetical protein	bi	sce_5613	40	hypothetical protein
SCE1572_238	hypothetical protein	bi	sce_5612	54.93	FIG01086888: hypothetical protein
SCE1572_239	hypothetical protein	-		0	
SCE1572_240	DNA repair protein RadC	bi	sce_8397	93.9	DNA repair protein RadC
SCE1572_241	Rhs-family protein	uni	sce_10193	40.69	Rhs family carbohydrate-binding protein
SCE1572_242	hypothetical protein	uni	sce_4560	34.34	FIG01088881: hypothetical protein
SCE1572_243	hypothetical protein	-		0	
SCE1572_244	DNA repair protein RadC	bi	sce_8398	94.31	DNA repair protein RadC
SCE1572_245	hypothetical protein	uni	sce_513	81.57	FIG01087636: hypothetical protein
SCE1572_246	Transcriptional regulator Cro/CI family	uni	sce_514	50.59	hypothetical protein
SCE1572_247	Integron integrase IntIPac	uni	sce_515	96.2	Integron integrase IntIPac
SCE1572_248	putative hydrolase/lactonase	-		0	
SCE1572_249	hypothetical protein	-		0	
SCE1572_250	hypothetical protein	uni	sce_6975	91.41	hypothetical protein
SCE1572_251	Tat (Twin-arginine translocation) pathway signal sequence domain protein	bi	sce_7318	89.49	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_252	hypothetical protein	-		0	
SCE1572_253	hypothetical protein	bi	sce_5453	62.18	hypothetical protein
SCE1572_254	hypothetical protein	-		0	
SCE1572_255	hypothetical protein	bi	sce_8414	92.68	hypothetical protein
SCE1572_256	PE-PGRS FAMILY PROTEIN	bi	sce_8408	80.6	PE-PGRS FAMILY PROTEIN
SCE1572_257	hypothetical protein	-		0	
SCE1572_258	hypothetical protein	bi	sce_8407	82.02	hypothetical protein
SCE1572_259	PE-PGRS FAMILY PROTEIN	uni	sce_6815	63.87	PE-PGRS FAMILY PROTEIN
SCE1572_260	hypothetical protein	uni	sce_6878	75.08	hypothetical protein
SCE1572_261	hypothetical protein	-		0	
SCE1572_262	Dihydrofolate reductase (EC 1.5.1.3)	bi	sce_4682	87.33	Dihydrofolate reductase (EC 1.5.1.3)
SCE1572_263	hypothetical protein	-		0	
SCE1572_264	hypothetical protein	bi	sce_1106	62.75	hypothetical protein
SCE1572_265	Para-aminobenzoate synthase, aminase component (EC 2.6.1.85) # PabAa	uni	sce_5651	36.49	Para-aminobenzoate synthase, amidotransferase component (EC 2.6.1.85) / Para-aminobenzoate synthase, aminase component (EC 2
SCE1572_266	Anthranilate synthase, amidotransferase component (EC 4.1.3.27)	bi	sce_5651	43.39	Para-aminobenzoate synthase, amidotransferase component (EC 2.6.1.85) / Para-aminobenzoate synthase, aminase component (EC 2
SCE1572_267	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_9237	37.14	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_268	hypothetical protein	-		0	
SCE1572_269	hypothetical protein	bi	sce_9355	69.23	hypothetical protein
SCE1572_270	Glutathione S-transferase (EC 2.5.1.18)	uni	sce_1670	33.67	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_271	Xylose isomerase (EC 5.3.1.5)	uni	sce_6076	94.36	Xylose isomerase (EC 5.3.1.5)
SCE1572_272	hypothetical protein	-		0	
SCE1572_273	FIG01088530: hypothetical protein	bi	sce_9375	77.76	FIG01088530: hypothetical protein
SCE1572_274	hypothetical protein	-		0	
SCE1572_275	conserved hypothetical protein	bi	sce_8423	93.53	conserved hypothetical protein
SCE1572_276	putative glyoxalase/bleomycin resistance protein/dioxygenase superfamily protein	-		0	
SCE1572_277	Arylsulfatase (EC 3.1.6.1)	uni	sce_8647	32.33	Arylsulfatase (EC 3.1.6.1)
SCE1572_278	hypothetical protein	-		0	
SCE1572_279	hypothetical protein	-		0	
SCE1572_280	hypothetical protein	-		0	
SCE1572_281	hypothetical abductin-like protein	bi	sce_6002	79.34	hypothetical abductin-like protein
SCE1572_282	hypothetical protein	-		0	
SCE1572_283	Bifunctional protein: zinc-containing alcohol dehydrogenase; quinone oxidoreductase (NADPH:quinone reductase) (EC 1.1.1.	bi	sce_1702	56.52	Bifunctional protein: zinc-containing alcohol dehydrogenase; quinone oxidoreductase (NADPH:quinone reductase) (EC 1.1.1.-); Sin
SCE1572_284	Glutamate racemase (EC 5.1.1.3)	bi	sce_9986	82.22	Glutamate racemase (EC 5.1.1.3)
SCE1572_285	hypothetical protein	-		0	
SCE1572_286	hypothetical protein	-		0	
SCE1572_287	hypothetical protein	uni	sce_5705	40.45	FIG01088991: hypothetical protein
SCE1572_288	dienelactone hydrolase family protein	bi	sce_9362	82.93	hypothetical protein
SCE1572_289	Penicillin amidase(EC:3.5.1.11)	uni	sce_9234	29.29	Penicillin acylase II (EC 3.5.1.11)
SCE1572_290	hypothetical protein	-		0	
SCE1572_291	hypothetical protein	-		0	
SCE1572_292	hypothetical protein	uni	sce_6470	44.83	Lactoylglutathione lyase (EC 4.4.1.5)
SCE1572_293	hypothetical protein	-		0	
SCE1572_294	hypothetical protein	-		0	
SCE1572_295	hypothetical protein	-		0	
SCE1572_296	YcgE	-		0	
SCE1572_297	Reductase	bi	sce_8687	85.49	Reductase
SCE1572_298	Transcriptional regulator	bi	sce_8686	88.16	Transcriptional regulator
SCE1572_299	FIG01085860: hypothetical protein	bi	sce_9374	58.82	FIG01085860: hypothetical protein
SCE1572_300	methyltransferase, UbiE/COQ5 family	uni	sce_9010	37.8	Methylase of polypeptide chain release factors
SCE1572_301	serine/threonine protein kinase	uni	sce_10233	34.77	protein kinase domain
SCE1572_302	hypothetical protein	-		0	
SCE1572_303	hypothetical protein	-		0	
SCE1572_304	hypothetical protein	-		0	
SCE1572_305	hypothetical protein	uni	sce_1333	42.38	FIG01085833: hypothetical protein
SCE1572_306	hypothetical protein	uni	sce_10267	49.42	hypothetical protein
SCE1572_307	hypothetical protein	uni	sce_10267	56.14	hypothetical protein
SCE1572_308	2-dehydropantoate 2-reductase (EC 1.1.1.169)	bi	sce_2028	92.02	2-dehydropantoate 2-reductase (EC 1.1.1.169)
SCE1572_309	FAD-binding monooxygenase, PheA/TfdB family, similarity to 2,4-dichlorophenol 6-monooxygenase	bi	sce_7865	72.98	FAD-binding monooxygenase, PheA/TfdB family, similarity to 2,4-dichlorophenol 6-monooxygenase
SCE1572_310	Transcriptional regulator, TetR family	bi	sce_7866	87.84	Transcriptional regulator, TetR family
SCE1572_311	Acetolactate synthase large subunit (EC 2.2.1.6)	bi	sce_9786	34.71	FIG01089071: hypothetical protein
SCE1572_312	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)	bi	sce_9787	30.6	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)
SCE1572_313	hypothetical protein	-		0	
SCE1572_314	Predicted membrane protein/domain	bi	sce_2561	85.23	Predicted membrane protein/domain
SCE1572_315	NHL repeat protein	bi	sce_616	66.06	NHL repeat protein
SCE1572_316	hypothetical protein	bi	sce_619	69.25	hypothetical protein
SCE1572_317	Transcriptional regulator, AraC family	bi	sce_620	65.96	Transcriptional regulator, AraC family
SCE1572_318	hypothetical protein	uni	sce_3777	55.17	FIG01087231: hypothetical protein
SCE1572_319	hypothetical protein	uni	sce_198	57.2	hypothetical protein
SCE1572_320	protein of unknown function DUF1568	uni	sce_207	42.09	FIG01088682: hypothetical protein
SCE1572_321	hypothetical protein	-		0	
SCE1572_322	hypothetical protein	bi	sce_4699	70.65	FIG01087239: hypothetical protein
SCE1572_323	hypothetical protein	uni	sce_2128	40.95	hypothetical protein
SCE1572_324	High-affnity carbon uptake protein Hat/HatR	uni	sce_5086	34.45	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins
SCE1572_325	hypothetical protein	-		0	

SCE1572_326	hypothetical protein	-		0	
SCE1572_327	hypothetical protein	-		0	
SCE1572_328	hypothetical protein	-		0	
SCE1572_329	Octaprenyl-diphosphate synthase (EC 2.5.1.-) / Dimethylallyltransferase (EC 2.5.1.1) / Geranyltranstransferase (farnesyldiphos	uni	sce_3378	34.63	Octaprenyl-diphosphate synthase (EC 2.5.1.-) / Dimethylallyltransferase (EC 2.5.1.1) / Geranyltranstransferase (farnesyldiphosphate
SCE1572_330	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	bi	sce_4328	78.12	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)
SCE1572_331	Beta-lactamase class C and other penicillin binding proteins	bi	sce_4326	75.31	Beta-lactamase class C and other penicillin binding proteins
SCE1572_332	Rhodanese-like domain protein	bi	sce_180	87.67	Rhodanese-like domain protein
SCE1572_333	Putative cytoplasmic protein	bi	sce_181	87.59	Putative cytoplasmic protein
SCE1572_334	Probable transcription regulator protein	bi	sce_183	87.12	Probable transcription regulator protein
SCE1572_335	Alkanesulfonates-binding protein	bi	sce_184	80.43	Alkanesulfonates-binding protein
SCE1572_336	Alkanesulfonates transport system permease protein	bi	sce_185	88.19	Alkanesulfonates transport system permease protein
SCE1572_337	Nitrilotriacetate monooxygenase	bi	sce_187	92.44	Nitrilotriacetate monooxygenase
SCE1572_338	FIG01124324: hypothetical protein	bi	sce_7871	49.7	FIG01124324: hypothetical protein
SCE1572_339	Transcriptional regulator, AraC family	bi	sce_7549	79.27	Transcriptional regulator, AraC family
SCE1572_340	Glutathione S-transferase (EC 2.5.1.18)	bi	sce_7550	80.8	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_341	carboxyl-terminal protease	bi	sce_188	78	carboxyl-terminal protease
SCE1572_342	Alkyl hydroperoxide reductase subunit C-like protein	bi	sce_189	96.23	Alkyl hydroperoxide reductase subunit C-like protein
SCE1572_343	hypothetical protein	bi	sce_190	87.56	hypothetical protein
SCE1572_344	hypothetical protein	bi	sce_2552	38.25	hypothetical protein
SCE1572_345	Transcriptional regulator, LysR family	bi	sce_2359	61.17	Transcriptional regulator, LysR family
SCE1572_346	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_3609	84.54	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_347	Transcriptional regulator, AraC family	bi	sce_9865	81.09	Transcriptional regulator, AraC family
SCE1572_348	putative glycosyl transferase	uni	sce_4755	50.66	putative glycosyl transferase
SCE1572_349	glycosyl transferase, group 1	uni	sce_1441	45.92	glycosyl transferase, group 1 family protein
SCE1572_350	glycosyl transferase, group 1	bi	sce_9998	82.19	glycosyl transferase, group 1
SCE1572_351	aminoglycoside N(3')-acetyltransferase IV (ACC(3)-IV)(EC:2.3.1.81)	-		0	
SCE1572_352	FIG01085969: hypothetical protein	bi	sce_193	79.51	FIG01085969: hypothetical protein
SCE1572_353	Transcriptional regulator, IclR family	bi	sce_194	91.88	Transcriptional regulator, IclR family
SCE1572_354	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	bi	sce_195	90.51	Branched-chain amino acid aminotransferase (EC 2.6.1.42)
SCE1572_355	Transcriptional regulator, LysR family	bi	sce_196	89	Transcriptional regulator, LysR family
SCE1572_356	hypothetical protein	-		0	
SCE1572_357	hypothetical protein	bi	sce_198	76.91	hypothetical protein
SCE1572_358	Lipid A export ATP-binding/permease protein MsbA	bi	sce_199	88.14	Lipid A export ATP-binding/permease protein MsbA
SCE1572_359	Lipid A export ATP-binding/permease protein MsbA	bi	sce_200	90.32	Lipid A export ATP-binding/permease protein MsbA
SCE1572_360	Organic hydroperoxide resistance protein	bi	sce_201	94.33	Organic hydroperoxide resistance protein
SCE1572_361	hypothetical protein	-		0	
SCE1572_362	hypothetical protein	-		0	
SCE1572_363	hypothetical protein	-		0	
SCE1572_364	hypothetical protein	uni	sce_1146	37.5	Gll0645 protein
SCE1572_365	FIG01086339: hypothetical protein	uni	sce_1515	58.21	PE-PGRS FAMILY PROTEIN
SCE1572_366	Transcriptional regulator, AraC family	uni	sce_9865	57.51	Transcriptional regulator, AraC family
SCE1572_367	hypothetical protein	bi	sce_203	86.22	hypothetical protein
SCE1572_368	Serine-threonine protein kinase	bi	sce_204	84.47	Serine-threonine protein kinase
SCE1572_369	Probable transmembrane protein	-		0	
SCE1572_370	Branched-chain amino acid transport protein azlC	-		0	
SCE1572_371	Transcriptional regulator, TetR family	uni	sce_1930	39.13	Transcriptional regulator, TetR family
SCE1572_372	putative cytochrome P450 hydroxylase	uni	sce_8024	44.39	putative cytochrome P450 hydroxylase
SCE1572_373	FIG01211180: hypothetical protein	bi	sce_205	88.78	FIG01211180: hypothetical protein
SCE1572_374	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_206	78.79	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_375	Catalase (EC 1.11.1.6)	-		0	
SCE1572_376	putative glucose-fructose oxidoreductase oxidoreductase protein	uni	sce_5141	32.84	NAD binding oxidoreductase
SCE1572_377	FIG01087827: hypothetical protein	bi	sce_7999	84.97	FIG01087792: hypothetical protein
SCE1572_378	Probable glutathione S-transferase-related transmembrane protein (EC 2.5.1.18)	bi	sce_1258	47.44	Probable glutathione S-transferase-related transmembrane protein (EC 2.5.1.18)
SCE1572_379	RNA polymerase sigma factor RpoD	bi	sce_211	90.83	RNA polymerase sigma factor RpoD
SCE1572_380	RNA polymerase sigma factor RpoE	bi	sce_6103	74.44	RNA polymerase sigma factor RpoE
SCE1572_381	hypothetical protein	bi	sce_6106	48.89	FIG01088162: hypothetical protein
SCE1572_382	hypothetical protein	bi	sce_212	89.92	Arsenate reductase and related proteins, glutaredoxin family
SCE1572_383	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_7076	61.2	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_384	hypothetical protein	-		0	
SCE1572_385	hypothetical protein	-		0	
SCE1572_386	hypothetical protein	-		0	
SCE1572_387	Similarities with tr|Q12218 Saccharomyces cerevisiae YOR009w	bi	sce_213	68.44	Similarities with tr|Q12218 Saccharomyces cerevisiae YOR009w
SCE1572_388	hypothetical protein	bi	sce_214	79.29	hypothetical protein
SCE1572_389	Short-chain dehydrogenase, associated with 2-hydroxychromene-2-carboxylate isomerase family protein	bi	sce_5187	73.33	short-chain dehydrogenase/reductase SDR
SCE1572_390	hypothetical protein	bi	sce_5188	89.78	hypothetical protein
SCE1572_391	hypothetical protein	-		0	
SCE1572_392	hypothetical protein	bi	sce_215	63.4	conserved hypothetical protein
SCE1572_393	FIG01086155: hypothetical protein	bi	sce_2460	73.03	FIG01086155: hypothetical protein
SCE1572_394	two-component sensor histidine kinase	bi	sce_217	85.28	two-component sensor histidine kinase
SCE1572_395	FIG01086972: hypothetical protein	bi	sce_218	77.89	FIG01086972: hypothetical protein
SCE1572_396	hypothetical protein	-		0	
SCE1572_397	hypothetical protein	uni	sce_2636	33.64	Gfa-like protein
SCE1572_398	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_219	87.73	ATP-dependent nuclease subunit B-like protein
SCE1572_399	hypothetical protein	-		0	
SCE1572_400	hypothetical protein	bi	sce_8410	95.79	hypothetical protein
SCE1572_401	hypothetical protein	bi	sce_8411	97.67	hypothetical protein
SCE1572_402	hypothetical protein	-		0	
SCE1572_403	Diaminohydroxyphosphoribosylaminopyrimidine deaminase (EC 3.5.4.26) / 5-amino-6-(5-phosphoribosylamino)uracil reducta	bi	sce_9360	48.48	Diaminohydroxyphosphoribosylaminopyrimidine deaminase (EC 3.5.4.26) / 5-amino-6-(5-phosphoribosylamino)uracil reductase (E
SCE1572_404	peptidase, S1 (chymotrypsin) family(EC:3.4.21.-)	bi	sce_224	86.73	FIG01085761: hypothetical protein
SCE1572_405	FIG00841528: hypothetical protein	bi	sce_225	88.89	FIG00841528: hypothetical protein
SCE1572_406	hypothetical protein	-		0	
SCE1572_407	hypothetical protein	bi	sce_226	74.04	hypothetical protein
SCE1572_408	COG1180: Radical SAM, Pyruvate-formate lyase-activating enzyme like	bi	sce_227	90	COG1180: Radical SAM, Pyruvate-formate lyase-activating enzyme like
SCE1572_409	putative LpqP (Hydrolase/esterase)	bi	sce_5625	83.85	LpqP protein
SCE1572_410	Signal transduction protein containing GAF and PtsI domains	bi	sce_228	92.75	Signal transduction protein containing GAF and PtsI domains
SCE1572_411	FOG: PAS/PAC domain	bi	sce_229	85.13	FOG: PAS/PAC domain
SCE1572_412	Regulatory protein recX	bi	sce_230	89.2	Regulatory protein recX
SCE1572_413	Iron-sulfur cluster-binding protein	bi	sce_231	86.1	Iron-sulfur cluster-binding protein
SCE1572_414	hypothetical protein	bi	sce_232	52.09	hypothetical protein
SCE1572_415	UV-endonuclease uvde	-		0	
SCE1572_416	hypothetical protein	uni	sce_3858	33.28	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_417	Streptococcal hemagglutinin protein	uni	sce_7158	33.52	Streptococcal hemagglutinin protein
SCE1572_418	High-affnity carbon uptake protein Hat/HatR	uni	sce_9373	51.82	NB-ARC domain protein
SCE1572_419	Cobyric acid synthase	bi	sce_233	91.24	Cobyric acid synthase
SCE1572_420	Adenosylcobinamide-phosphate synthase	bi	sce_234	90.13	Adenosylcobinamide-phosphate synthase
SCE1572_421	Adenosylcobinamide-phosphate guanylyltransferase (EC 2.7.7.62)	bi	sce_235	89.29	Adenosylcobinamide-phosphate guanylyltransferase (EC 2.7.7.62)
SCE1572_422	Cobyrinic acid A,C-diamide synthase	bi	sce_236	86.77	Cobyrinic acid A,C-diamide synthase
SCE1572_423	Cob(I)alamin adenosyltransferase (EC 2.5.1.17)	bi	sce_237	90.53	Cob(I)alamin adenosyltransferase (EC 2.5.1.17)
SCE1572_424	Cobalt-precorrin-4 C11-methyltransferase (EC 2.1.1.133)	bi	sce_238	94.32	Cobalt-precorrin-4 C11-methyltransferase (EC 2.1.1.133)
SCE1572_425	Transcriptional regulator, TetR family	bi	sce_7595	89.35	Transcriptional regulator, TetR family
SCE1572_426	FIG01087864: hypothetical protein	bi	sce_7596	81.17	FIG01087864: hypothetical protein
SCE1572_427	hypothetical protein	bi	sce_7597	85.56	hypothetical protein
SCE1572_428	hypothetical protein	bi	sce_821	61.96	FIG01088944: hypothetical protein
SCE1572_429	Nitrogen regulation protein NR(I)	bi	sce_9917	78.98	Nitrogen regulation protein NR(I)
SCE1572_430	Adenylate cyclase (EC 4.6.1.1)	bi	sce_9918	84.95	Adenylate cyclase (EC 4.6.1.1)
SCE1572_431	adenylate cyclase 2(EC:4.6.1.1)	bi	sce_893	83.39	two-component sensor histidine kinase
SCE1572_432	NtrC	bi	sce_247	92.14	NtrC
SCE1572_433	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_248	69.33	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_434	hypothetical protein	-		0	
SCE1572_435	conserved hypothetical protein	bi	sce_9784	69.5	hypothetical protein
SCE1572_436	hypothetical protein	bi	sce_9783	64.42	hypothetical protein
SCE1572_437	AknN	bi	sce_251	90.42	AknN
SCE1572_438	hypothetical protein	-		0	
SCE1572_439	hypothetical protein	-		0	
SCE1572_440	Alpha-glucosidase (EC 3.2.1.20)	uni	sce_3862	30.67	Alpha-glucosidase (EC 3.2.1.20)
SCE1572_441	hypothetical protein	-		0	
SCE1572_442	Transcriptional regulator, LysR family	uni	sce_7791	43.05	Transcriptional regulator, LysR family
SCE1572_443	Alcohol dehydrogenase (EC 1.1.1.1)	uni	sce_4809	42.64	Alcohol dehydrogenase (EC 1.1.1.1)
SCE1572_444	Cobalt-precorrin-3b C17-methyltransferase	bi	sce_257	86.52	Cobalt-precorrin-3b C17-methyltransferase
SCE1572_445	Cobalt-precorrin-3b C17-methyltransferase	bi	sce_258	96.44	Cobalt-precorrin-3b C17-methyltransferase
SCE1572_446	Cobalamin biosynthesis protein CbiG	bi	sce_259	93.67	Cobalamin biosynthesis protein CbiG
SCE1572_447	Cobalt-precorrin-2 C20-methyltransferase (EC 2.1.1.130)	bi	sce_260	92.88	Cobalt-precorrin-2 C20-methyltransferase (EC 2.1.1.130)
SCE1572_448	Cobalt-precorrin-6y C5-methyltransferase (EC 2.1.1.-) / Cobalt-precorrin-6y C15-methyltransferase [decarboxylating] (EC 2.1.	bi	sce_261	96.06	Cobalt-precorrin-6y C5-methyltransferase (EC 2.1.1.-) / Cobalt-precorrin-6y C15-methyltransferase [decarboxylating] (EC 2.1.1.-)
SCE1572_449	Cobalt-precorrin-8x methylmutase (EC 5.4.1.2)	bi	sce_262	95.07	Cobalt-precorrin-8x methylmutase (EC 5.4.1.2)
SCE1572_450	Cobalt-precorrin-6 synthase, anaerobic	bi	sce_263	95.64	Cobalt-precorrin-6 synthase, anaerobic
SCE1572_451	Flavodoxin reductases (ferredoxin-NADPH reductases) family 1; Vanillate O-demethylase oxidoreductase (EC 1.14.13.-)	bi	sce_267	80.74	Flavodoxin reductases (ferredoxin-NADPH reductases) family 1; Vanillate O-demethylase oxidoreductase (EC 1.14.13.-)
SCE1572_452	unknown protein confirmed by proteomics	bi	sce_268	91.94	unknown protein confirmed by proteomics
SCE1572_453	probable secreted protein	bi	sce_269	91.17	probable secreted protein
SCE1572_454	hypothetical protein	uni	sce_4164	30.57	Membrane protein involved in colicin uptake-like protein
SCE1572_455	hypothetical protein	-		0	
SCE1572_456	ABC-type multidrug transport system, ATPase component	uni	sce_848	45.59	Nitrous oxide reductase maturation protein NosF (ATPase)
SCE1572_457	Transcriptional regulator, TetR family	uni	sce_8359	37.21	Transcriptional regulator, TetR family
SCE1572_458	Sirohydrochlorin cobaltochelatase (EC 4.99.1.3) / Putative 2Fe-2S ferredoxin CbiW involved in B12 biosynthesis	bi	sce_270	92.91	Sirohydrochlorin cobaltochelatase (EC 4.99.1.3) / Putative 2Fe-2S ferredoxin CbiW involved in B12 biosynthesis
SCE1572_459	ATPase component CbiO of energizing module of cobalt ECF transporter	bi	sce_271	91.27	ATPase component CbiO of energizing module of cobalt ECF transporter
SCE1572_460	Transmembrane component NikQ of energizing module of nickel ECF transporter	bi	sce_272	84.03	Transmembrane component NikQ of energizing module of nickel ECF transporter
SCE1572_461	cobalamin biosynthesis protein CbiM	bi	sce_273	84.16	hypothetical protein
SCE1572_462	Substrate-specific component CbiM of cobalt ECF transporter	bi	sce_274	89.75	Substrate-specific component CbiM of cobalt ECF transporter
SCE1572_463	3-hydroxybutyryl-CoA dehydratase (EC 4.2.1.55)	bi	sce_277	93.09	3-hydroxybutyryl-CoA dehydratase (EC 4.2.1.55)
SCE1572_464	hypothetical protein	-		0	
SCE1572_465	hypothetical membrane protein	-		0	
SCE1572_466	3-hydroxybutyryl-CoA dehydrogenase (EC 1.1.1.157); 3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)	bi	sce_278	94.93	3-hydroxybutyryl-CoA dehydrogenase (EC 1.1.1.157); 3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)
SCE1572_467	TPR domain protein, putative component of TonB system	bi	sce_279	95.56	TPR domain protein, putative component of TonB system
SCE1572_468	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	bi	sce_280	87.88	Branched-chain amino acid aminotransferase (EC 2.6.1.42)
SCE1572_469	hypothetical protein	bi	sce_281	78.17	hypothetical protein
SCE1572_470	conserved hypothetical protein	bi	sce_282	86.14	SSU ribosomal protein S6p
SCE1572_471	collagen-like protein	uni	sce_2882	39.87	Phage tail fiber protein
SCE1572_472	Endoribonuclease L-PSP	bi	sce_283	89.84	Endoribonuclease L-PSP
SCE1572_473	Recombination protein RecR	bi	sce_284	93.62	Recombination protein RecR
SCE1572_474	FIG000557: hypothetical protein co-occurring with RecR	bi	sce_285	95.33	FIG000557: hypothetical protein co-occurring with RecR
SCE1572_475	DNA polymerase III subunits gamma and tau (EC 2.7.7.7)	bi	sce_286	78.44	DNA polymerase III subunits gamma and tau (EC 2.7.7.7)
SCE1572_476	hypothetical protein	bi	sce_287	86.74	hypothetical protein
SCE1572_477	FIG01086270: hypothetical protein	bi	sce_288	87.56	FIG01086270: hypothetical protein
SCE1572_478	expressed protein	bi	sce_289	89.09	expressed protein
SCE1572_479	Molybdenum cofactor biosynthesis protein MoaA	bi	sce_290	89.11	Molybdenum cofactor biosynthesis protein MoaA
SCE1572_480	Molybdenum cofactor biosynthesis protein MoaA	bi	sce_291	90.32	Molybdenum cofactor biosynthesis protein MoaA
SCE1572_481	hypothetical protein	bi	sce_292	89.91	hypothetical protein
SCE1572_482	CRISPR-associated helicase Cas3	bi	sce_293	80.46	CRISPR-associated helicase Cas3
SCE1572_483	conserved hypothetical protein	bi	sce_294	87.92	conserved hypothetical protein
SCE1572_484	hypothetical protein	bi	sce_295	94.84	hypothetical protein
SCE1572_485	CRISPR-associated protein Cas1	bi	sce_296	95.6	CRISPR-associated protein Cas1
SCE1572_486	CRISPR-associated protein Cas2	bi	sce_297	96.88	CRISPR-associated protein Cas2
SCE1572_487	FIG01087436: hypothetical protein	bi	sce_298	93.79	FIG01087436: hypothetical protein
SCE1572_488	HlyD family secretion protein	-		0	
SCE1572_489	HlyD family secretion protein	uni	sce_3858	26.12	Adenosylhomocysteinase (EC 3.3.1.1)

SCE1572_490	HlyD family secretion protein	-		0	
SCE1572_491	FIG01087249: hypothetical protein	uni	sce_2338	95	Transposase
SCE1572_492	hypothetical protein	-		0	
SCE1572_493	FIG01089651: hypothetical protein	uni	sce_5846	61.95	FIG01089651: hypothetical protein
SCE1572_494	FIG01087210: hypothetical protein	bi	sce_5847	51.65	FIG01087210: hypothetical protein
SCE1572_495	hypothetical protein	-		0	
SCE1572_496	FIG01086383: hypothetical protein	bi	sce_5848	80.43	FIG01086383: hypothetical protein
SCE1572_497	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)	bi	sce_2515	42.92	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)
SCE1572_498	COG3899: Predicted ATPase	uni	sce_8618	66.19	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_499	D-threo-aldose 1-dehydrogenase (EC 1.1.1.122)	uni	sce_5656	27.6	Aldo-keto reductase
SCE1572_500	ThiJ/PfpI family protein	bi	sce_1070	45.33	ThiJ/PfpI family protein
SCE1572_501	hypothetical protein	-		0	
SCE1572_502	hypothetical protein	-		0	
SCE1572_503	FIG01086144: hypothetical protein	bi	sce_8663	33.63	hypothetical protein
SCE1572_504	RNA polymerase sigma factor RpoE	bi	sce_8662	54.88	RNA polymerase sigma factor RpoE
SCE1572_505	hypothetical protein	uni	sce_1483	39.29	Serine-threonine protein kinase
SCE1572_506	hypothetical protein	uni	sce_7367	49.12	Maltose/maltodextrin ABC transporter, substrate binding periplasmic protein MalE
SCE1572_507	Spermidine synthase (EC 2.5.1.16)	bi	sce_1673	89.85	Spermidine synthase (EC 2.5.1.16)
SCE1572_508	Spermine synthase	bi	sce_1674	90.25	putative spermidine synthase
SCE1572_509	hypothetical protein	bi	sce_312	81.59	hypothetical protein
SCE1572_510	FIG01088788: hypothetical protein	bi	sce_313	70.92	FIG01088788: hypothetical protein
SCE1572_511	Large protein containing transglutaminase-like domain	bi	sce_315	91.07	Large protein containing transglutaminase-like domain
SCE1572_512	hypothetical protein	bi	sce_317	83.33	hypothetical protein
SCE1572_513	unknown	bi	sce_318	65.7	unknown
SCE1572_514	hypothetical protein	bi	sce_319	86.98	hypothetical protein
SCE1572_515	Oxidoreductase, short chain dehydrogenase/reductase family	bi	sce_321	88.26	Oxidoreductase, short chain dehydrogenase/reductase family
SCE1572_516	hypothetical protein	-		0	
SCE1572_517	Esterase/hydrolase	uni	sce_107	25.75	hydrolase, alpha/beta fold family
SCE1572_518	hypothetical protein	-		0	
SCE1572_519	Gfa-like protein	bi	sce_2023	88.81	Gfa-like protein
SCE1572_520	hypothetical protein	bi	sce_322	60.87	FIG01086035: hypothetical protein
SCE1572_521	EBNA-1	bi	sce_323	68.18	hypothetical protein
SCE1572_522	O-methyltransferase	bi	sce_325	84.98	O-methyltransferase
SCE1572_523	Pantothenate kinase type III, CoaX-like (EC 2.7.1.33)	bi	sce_326	91.95	Pantothenate kinase type III, CoaX-like (EC 2.7.1.33)
SCE1572_524	Vitamin B12 ABC transporter, permease component BtuC	bi	sce_327	89.38	Vitamin B12 ABC transporter, permease component BtuC
SCE1572_525	Mutator mutT protein (7,8-dihydro-8-oxoguanine-triphosphatase) (EC 3.6.1.-)	bi	sce_328	97.73	Mutator mutT protein (7,8-dihydro-8-oxoguanine-triphosphatase) (EC 3.6.1.-)
SCE1572_526	FHA domain containing protein	bi	sce_329	90.51	FHA domain containing protein
SCE1572_527	Holliday junction DNA helicase RuvA	bi	sce_330	91.83	Holliday junction DNA helicase RuvA
SCE1572_528	hypothetical protein	bi	sce_331	83.82	hypothetical protein
SCE1572_529	hypothetical protein	bi	sce_332	80.74	hypothetical protein
SCE1572_530	Uncharacterized protein with LysM domain, COG1652	bi	sce_333	88.99	Uncharacterized protein with LysM domain, COG1652
SCE1572_531	FIG01087344: hypothetical protein	bi	sce_334	86.87	FIG01087344: hypothetical protein
SCE1572_532	Rhs family protein	uni	sce_121	38.68	Putative membrane protein
SCE1572_533	tRNA pseudouridine synthase A (EC 4.2.1.70)	bi	sce_339	79.49	hypothetical protein
SCE1572_534	hypothetical protein	-		0	
SCE1572_535	two component, sigma54 specific, transcriptional regulator, Fis family	bi	sce_341	92.1	two component, sigma54 specific, transcriptional regulator, Fis family
SCE1572_536	Copper resistance protein B	bi	sce_342	71.7	Copper resistance protein B
SCE1572_537	Polyhydroxyalkanoic acid synthase	bi	sce_343	90.96	Polyhydroxyalkanoic acid synthase
SCE1572_538	UPF0256 protein SAV4024	bi	sce_344	83.5	UPF0256 protein SAV4024
SCE1572_539	hypothetical protein	bi	sce_345	90.17	hypothetical protein
SCE1572_540	Probable serine/threonine-protein kinase pknB (EC 2.7.1.-)	bi	sce_346	81.65	Probable serine/threonine-protein kinase pknB (EC 2.7.1.-)
SCE1572_541	Thiol-specific antioxidant family (AhpC/TSA) protein associated with thiol:disulfide interchange protein	bi	sce_347	86.32	Thiol-specific antioxidant family (AhpC/TSA) protein associated with thiol:disulfide interchange protein
SCE1572_542	hypothetical protein	bi	sce_348	85.19	hypothetical protein
SCE1572_543	phosphoesterase PA-phosphatase related	bi	sce_349	80.17	hypothetical protein
SCE1572_544	hypothetical protein	bi	sce_350	87.29	hypothetical protein
SCE1572_545	Aspartate ammonia-lyase (EC 4.3.1.1)	bi	sce_352	90.06	Aspartate ammonia-lyase (EC 4.3.1.1)
SCE1572_546	hypothetical protein	-		0	
SCE1572_547	hypothetical protein	bi	sce_354	77.53	hypothetical protein
SCE1572_548	Modification methylase XhoI (EC 2.1.1.72) (Adenine-specific methyltransferase XhoI) (M.XhoI)	bi	sce_355	87.39	Modification methylase XhoI (EC 2.1.1.72) (Adenine-specific methyltransferase XhoI) (M.XhoI)
SCE1572_549	hypothetical protein	-		0	
SCE1572_550	hypothetical protein	-		0	
SCE1572_551	Holo-[acyl-carrier protein] synthase (EC 2.7.8.7)	bi	sce_357	84.24	Holo-[acyl-carrier protein] synthase (EC 2.7.8.7)
SCE1572_552	NAD(P)HX epimerase / NAD(P)HX dehydratase	bi	sce_358	89.72	NAD(P)HX epimerase / NAD(P)HX dehydratase
SCE1572_553	NADP oxidoreductase, coenzyme F420-dependent	-		0	
SCE1572_554	hypothetical protein	-		0	
SCE1572_555	Cytochrome c551 peroxidase (EC 1.11.1.5)	uni	sce_3352	50.78	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_556	RNA polymerase sigma factor	bi	sce_359	86.84	RNA polymerase sigma factor
SCE1572_557	NADH dehydrogenase (EC 1.6.99.3)	bi	sce_360	89.33	NADH dehydrogenase (EC 1.6.99.3)
SCE1572_558	Probable transcriptional regulator	bi	sce_361	91.96	Probable transcriptional regulator
SCE1572_559	FIG01086996: hypothetical protein	bi	sce_362	92.52	FIG01086996: hypothetical protein
SCE1572_560	Sulfate and thiosulfate binding protein CysP	bi	sce_363	90.42	Sulfate and thiosulfate binding protein CysP
SCE1572_561	Sulfate transport system permease protein CysT	bi	sce_364	92.36	Sulfate transport system permease protein CysT
SCE1572_562	Sulfate transport system permease protein CysW	bi	sce_365	92.69	Sulfate transport system permease protein CysW
SCE1572_563	FIG01088797: hypothetical protein	bi	sce_366	73.36	FIG01088797: hypothetical protein
SCE1572_564	putative acetyltransferase	uni	sce_8115	40.43	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)
SCE1572_565	conserved hypothetical protein	bi	sce_368	91.18	conserved hypothetical protein
SCE1572_566	hypothetical protein	uni	sce_4075	29.97	hypothetical protein
SCE1572_567	Multimodular transpeptidase-transglycosylase (EC 2.4.1.129) (EC 3.4.-.-)	bi	sce_370	87.33	Multimodular transpeptidase-transglycosylase (EC 2.4.1.129) (EC 3.4.-.-)
SCE1572_568	hypothetical protein	bi	sce_371	85.95	hypothetical protein
SCE1572_569	hypothetical protein	bi	sce_372	80.39	hypothetical protein
SCE1572_570	LuxR family transcriptional regulator	bi	sce_804	75	LuxR family transcriptional regulator
SCE1572_571	ATP-dependent Clp protease ATP-binding subunit ClpA	-		0	
SCE1572_572	FIG01087436: hypothetical protein	uni	sce_8636	58.18	FIG01087436: hypothetical protein
SCE1572_573	Cytochrome c551 peroxidase (EC 1.11.1.5)	bi	sce_375	88.71	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_574	Probable short-chain dehydrogenase	bi	sce_376	89.96	Probable short-chain dehydrogenase
SCE1572_575	Rubredoxin	bi	sce_377	83.33	Rubredoxin
SCE1572_576	FIG01085894: hypothetical protein	bi	sce_381	85.08	FIG01085894: hypothetical protein
SCE1572_577	hypothetical protein	bi	sce_382	65.22	hypothetical protein
SCE1572_578	hypothetical protein	bi	sce_383	73.85	FIG01086543: hypothetical protein
SCE1572_579	conserved hypothetical protein	bi	sce_384	76.1	conserved hypothetical protein
SCE1572_580	Acetylglutamate kinase (EC 2.7.2.8)	bi	sce_385	93.09	Acetylglutamate kinase (EC 2.7.2.8)
SCE1572_581	Acetylornithine deacetylase/Succinyl-diaminopimelate desuccinylase and related deacylases	bi	sce_386	90.41	Acetylornithine deacetylase/Succinyl-diaminopimelate desuccinylase and related deacylases
SCE1572_582	LSU m5C1962 methyltransferase RlmI	bi	sce_392	89.67	LSU m5C1962 methyltransferase RlmI
SCE1572_583	hypothetical protein	bi	sce_393	77.13	hypothetical protein
SCE1572_584	FIG01087934: hypothetical protein	bi	sce_394	95	FIG01087934: hypothetical protein
SCE1572_585	FIG01088190: hypothetical protein	bi	sce_395	91.17	FIG01088190: hypothetical protein
SCE1572_586	4-alpha-glucanotransferase (amylomaltase) (EC 2.4.1.25)	bi	sce_396	86.75	4-alpha-glucanotransferase (amylomaltase) (EC 2.4.1.25)
SCE1572_587	serine/threonine protein kinase	bi	sce_398	65.8	serine/threonine protein kinase
SCE1572_588	hypothetical protein	bi	sce_399	69.05	S-layer protein
SCE1572_589	hypothetical protein	uni	sce_397	43.18	FIG01086142: hypothetical protein
SCE1572_590	hypothetical protein	-		0	
SCE1572_591	FIG01087489: hypothetical protein	bi	sce_400	82.35	FIG01087489: hypothetical protein
SCE1572_592	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	bi	sce_401	80.78	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_593	Fumarate hydratase class I, aerobic (EC 4.2.1.2)	bi	sce_402	97.26	Fumarate hydratase class I, aerobic (EC 4.2.1.2)
SCE1572_594	hypothetical protein	-		0	
SCE1572_595	alpha/beta hydrolase fold	bi	sce_404	84.52	alpha/beta hydrolase fold
SCE1572_596	serine/threonine protein kinase	bi	sce_405	85.11	serine/threonine protein kinase
SCE1572_597	erythrocyte membrane protein 1 (PfEMP1)	uni	sce_4564	70.64	endo alpha-1,4 polygalactosaminidase precusor
SCE1572_598	FIG01087914: hypothetical protein	bi	sce_406	81.68	FIG01087914: hypothetical protein
SCE1572_599	hypothetical protein	uni	sce_5241	46.08	FIG01086664: hypothetical protein
SCE1572_600	hypothetical protein	-		0	
SCE1572_601	Trehalose synthase (EC 5.4.99.16)	bi	sce_407	93.18	Trehalose synthase (EC 5.4.99.16)
SCE1572_602	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_410	87.52	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_603	General secretion pathway protein C	bi	sce_411	82.13	General secretion pathway protein C
SCE1572_604	Ubiquinol--cytochrome c reductase, cytochrome B subunit (EC 1.10.2.2)	bi	sce_413	87.94	Ubiquinol--cytochrome c reductase, cytochrome B subunit (EC 1.10.2.2)
SCE1572_605	Ubiquinol-cytochrome C reductase iron-sulfur subunit (EC 1.10.2.2)	bi	sce_414	91.4	Ubiquinol-cytochrome C reductase iron-sulfur subunit (EC 1.10.2.2)
SCE1572_606	Outer membrane protein assembly factor YaeT precursor	bi	sce_415	81.81	Outer membrane protein assembly factor YaeT precursor
SCE1572_607	hypothetical protein	bi	sce_416	85.19	hypothetical protein
SCE1572_608	Fe-S oxidoreductase	bi	sce_418	92.29	Fe-S oxidoreductase
SCE1572_609	hypothetical protein	-		0	
SCE1572_610	TRNA (Guanosine-2'-O-) -methyltransferase (EC 2.1.1.34)	bi	sce_420	86.02	tRNA (Guanosine18-2'-O-) -methyltransferase (EC 2.1.1.34)
SCE1572_611	tRNA (Guanosine18-2'-O-) -methyltransferase (EC 2.1.1.34)	uni	sce_420	80	tRNA (Guanosine18-2'-O-) -methyltransferase (EC 2.1.1.34)
SCE1572_612	Ureidoglycolate hydrolase (EC 3.5.3.19)	bi	sce_421	94.25	Ureidoglycolate hydrolase (EC 3.5.3.19)
SCE1572_613	LemA family protein	bi	sce_422	94.2	LemA family protein
SCE1572_614	Beta-propeller domains of methanol dehydrogenase type	bi	sce_423	86.64	Beta-propeller domains of methanol dehydrogenase type
SCE1572_615	hypothetical protein	-		0	
SCE1572_616	3-ketoacyl-CoA thiolase (EC 2.3.1.16) @ Acetyl-CoA acetyltransferase (EC 2.3.1.9)	bi	sce_424	96.03	3-ketoacyl-CoA thiolase (EC 2.3.1.16) @ Acetyl-CoA acetyltransferase (EC 2.3.1.9)
SCE1572_617	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)	bi	sce_425	88.89	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)
SCE1572_618	FIG01085502: hypothetical protein	bi	sce_426	77.84	FIG01085502: hypothetical protein
SCE1572_619	hypothetical protein; putative Adenylate cyclase domain	bi	sce_427	74.53	chad domain family
SCE1572_620	Ribonuclease J2 (endoribonuclease in RNA processing)	bi	sce_428	96.42	Ribonuclease J2 (endoribonuclease in RNA processing)
SCE1572_621	signal peptide peptidase SppA, 36K type(EC:3.1.3.2)	bi	sce_430	90.03	peptidase S49, protease IV:Peptidase S49, SppA
SCE1572_622	hypothetical protein	-		0	
SCE1572_623	Ribonucleotide reductase of class II (coenzyme B12-dependent) (EC 1.17.4.1)	bi	sce_431	94.3	Ribonucleotide reductase of class II (coenzyme B12-dependent) (EC 1.17.4.1)
SCE1572_624	hypothetical protein	-		0	
SCE1572_625	hypothetical protein	-		0	
SCE1572_626	hypothetical protein	uni	sce_5162	36.36	Serine-threonine protein kinase
SCE1572_627	AAA ATPase	uni	sce_3520	70.91	AAA ATPase
SCE1572_628	Thiamine-monophosphate kinase (EC 2.7.4.16)	bi	sce_436	86.93	Thiamine-monophosphate kinase (EC 2.7.4.16)
SCE1572_629	Sensor protein	bi	sce_437	87.29	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)
SCE1572_630	gliding motility protein MglA	bi	sce_438	96.69	gliding motility protein MglA
SCE1572_631	Putative ATP /GTP binding protein	bi	sce_439	96.69	Dynamin family protein
SCE1572_632	Zn-dependent protease with chaperone function	bi	sce_440	97.98	Zn-dependent protease with chaperone function
SCE1572_633	Homoserine kinase (EC 2.7.1.39)	bi	sce_441	87.25	Homoserine kinase (EC 2.7.1.39)
SCE1572_634	GTP-binding protein HflX	bi	sce_442	94.22	GTP-binding protein HflX
SCE1572_635	hypothetical protein	bi	sce_443	69.18	FIG01089529: hypothetical protein
SCE1572_636	OmpA/MotB	bi	sce_444	86.88	FIG01086993: hypothetical protein
SCE1572_637	Siroheme synthase / Precorrin-2 oxidase (EC 1.3.1.76) / Sirohydrochlorin ferrochelatase (EC 4.99.1.4) / Uroporphyrinogen-III	bi	sce_446	88.61	siroheme synthase-like protein
SCE1572_638	FIG01089624: hypothetical protein	bi	sce_447	87.94	FIG01089624: hypothetical protein
SCE1572_639	Outer membrane protein assembly factor YaeT precursor	bi	sce_448	92.46	Outer membrane protein assembly factor YaeT precursor
SCE1572_640	FIG01089580: hypothetical protein	bi	sce_449	78.69	FIG01089580: hypothetical protein
SCE1572_641	Phosphoribosyl-AMP cyclohydrolase (EC 3.5.4.19) / Phosphoribosyl-ATP pyrophosphatase (EC 3.6.1.31)	bi	sce_450	93.45	Phosphoribosyl-AMP cyclohydrolase (EC 3.5.4.19) / Phosphoribosyl-ATP pyrophosphatase (EC 3.6.1.31)
SCE1572_642	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)	bi	sce_451	85.17	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)
SCE1572_643	hypothetical protein	bi	sce_452	80.26	hypothetical protein
SCE1572_644	hypothetical protein	uni	sce_453	66.85	hypothetical protein
SCE1572_645	hypothetical protein	bi	sce_453	89.93	hypothetical protein
SCE1572_646	hypothetical protein	-		0	
SCE1572_647	hypothetical protein	-		0	
SCE1572_648	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_455	85.48	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_649	hypothetical protein	-		0	
SCE1572_650	Translation elongation factor Tu	uni	sce_457	98.74	Translation elongation factor Tu
SCE1572_651	LSU ribosomal protein L33p	bi	sce_458	96.43	LSU ribosomal protein L33p
SCE1572_652	Preprotein translocase subunit SecE (TC 3.A.5.1.1)	bi	sce_459	81.82	Preprotein translocase subunit SecE (TC 3.A.5.1.1)
SCE1572_653	Transcription antitermination protein NusG	bi	sce_460	98.3	Transcription antitermination protein NusG

SCE1572_654	hypothetical protein	-		0	
SCE1572_655	LSU ribosomal protein L11p (L12e)	bi	sce_461	96.6	LSU ribosomal protein L11p (L12e)
SCE1572_656	LSU ribosomal protein L1p (L10Ae)	bi	sce_462	97.03	LSU ribosomal protein L1p (L10Ae)
SCE1572_657	LSU ribosomal protein L10p (P0)	bi	sce_463	95.38	LSU ribosomal protein L10p (P0)
SCE1572_658	LSU ribosomal protein L7/L12 (P1/P2)	bi	sce_464	96.12	LSU ribosomal protein L7/L12 (P1/P2)
SCE1572_659	hypothetical protein	bi	sce_465	92.98	hypothetical protein
SCE1572_660	DNA-directed RNA polymerase beta subunit (EC 2.7.7.6)	bi	sce_466	99.13	DNA-directed RNA polymerase beta subunit (EC 2.7.7.6)
SCE1572_661	hypothetical protein	bi	sce_467	78	hypothetical protein
SCE1572_662	DNA-directed RNA polymerase beta' subunit (EC 2.7.7.6)	bi	sce_468	99.3	DNA-directed RNA polymerase beta' subunit (EC 2.7.7.6)
SCE1572_663	hypothetical protein	-		0	
SCE1572_664	GSPII_E domain/HD domain/response regulator	bi	sce_469	90.66	Response regulator receiver:Metal-dependent phosphohydrolase, HD subdomain
SCE1572_665	Ribosomal-protein-S5p-alanine acetyltransferase	bi	sce_470	87.56	Ribosomal-protein-S5p-alanine acetyltransferase
SCE1572_666	3-methyl-2-oxobutanoate hydroxymethyltransferase (EC 2.1.2.11)	bi	sce_471	97.46	3-methyl-2-oxobutanoate hydroxymethyltransferase (EC 2.1.2.11)
SCE1572_667	conserved hypothetical protein, double-transmembrane region	bi	sce_472	90.3	conserved hypothetical protein, double-transmembrane region
SCE1572_668	hypothetical protein	bi	sce_473	94.04	hypothetical protein
SCE1572_669	Cell division protein FtsH (EC 3.4.24.-)	bi	sce_474	90.34	Cell division protein FtsH (EC 3.4.24.-)
SCE1572_670	FIG01085043: hypothetical protein	bi	sce_475	78.3	FIG01085043: hypothetical protein
SCE1572_671	serine/threonine protein kinase(EC:2.7.11.1)	bi	sce_476	76.81	Protein kinase:PASTA:Serine/threonine protein kinase, active site
SCE1572_672	Flagellar motor rotation protein MotB	bi	sce_478	65.23	Flagellar motor rotation protein MotB
SCE1572_673	FIG01088809: hypothetical protein	bi	sce_479	91.3	FIG01088809: hypothetical protein
SCE1572_674	hypothetical protein	-		0	
SCE1572_675	hypothetical protein	-		0	
SCE1572_676	hypothetical protein	bi	sce_480	87.71	probable O-linked GlcNAc transferase-putative TPR-containing transmembrane protein
SCE1572_677	Heat shock protein DnaJ-like	bi	sce_481	96.38	ATP-binding protein
SCE1572_678	FIG00675759: hypothetical protein	bi	sce_482	93.37	FIG00675759: hypothetical protein
SCE1572_679	Rhodanese-related sulfurtransferase	bi	sce_483	87.59	Rhodanese-related sulfurtransferase
SCE1572_680	hypothetical protein	uni	sce_9648	63.16	hypothetical protein
SCE1572_681	Glycosyltransferase	bi	sce_484	90.68	Glycosyltransferase
SCE1572_682	two-component hybrid sensor and regulator	bi	sce_485	92.86	two-component hybrid sensor and regulator
SCE1572_683	Copper-sensing two-component system response regulator CpxR	bi	sce_486	96.72	Copper-sensing two-component system response regulator CpxR
SCE1572_684	FIG01084951: hypothetical protein	bi	sce_487	85	FIG01084951: hypothetical protein
SCE1572_685	hypothetical protein	-		0	
SCE1572_686	Serine/threonine protein kinase (EC 2.7.11.1)	bi	sce_488	85.48	Serine/threonine protein kinase (EC 2.7.11.1)
SCE1572_687	hypothetical protein	bi	sce_489	71.53	hypothetical protein
SCE1572_688	hypothetical protein	bi	sce_490	89.66	FIG01088316: hypothetical protein
SCE1572_689	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)	bi	sce_491	88.27	Transcriptional regulator, GntR family domain
SCE1572_690	4-carboxymuconolactone decarboxylase domain/alkylhydroperoxidase AhpD family core domain protein	bi	sce_492	69.03	4-carboxymuconolactone decarboxylase domain/alkylhydroperoxidase AhpD family core domain protein
SCE1572_691	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_494	85.82	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_692	FIG01086587: hypothetical protein	bi	sce_495	92.13	FIG01086587: hypothetical protein
SCE1572_693	Cystathionine beta-synthase (EC 4.2.1.22)	bi	sce_496	95.01	Cystathionine beta-synthase (EC 4.2.1.22)
SCE1572_694	hypothetical protein	bi	sce_9364	89.9	hypothetical protein
SCE1572_695	putative ring-cleaving dioxygenase	bi	sce_9358	89.93	putative ring-cleaving dioxygenase
SCE1572_696	hypothetical protein	uni	sce_923	54.55	hypothetical protein
SCE1572_697	Gll1489 protein	uni	sce_924	48.41	Gll1489 protein
SCE1572_698	Gll1489 protein	uni	sce_924	62.96	Gll1489 protein
SCE1572_699	Neurosporene desaturase (EC 1.-.-.-)	uni	sce_688	30.07	Phytoene desaturase, neurosporene or lycopene producing (EC 1.3.-.-)
SCE1572_700	hypothetical protein	-		0	
SCE1572_701	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_497	93.39	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_702	CsbD-like	bi	sce_498	83.84	UPF0337 protein PSPTO_1596
SCE1572_703	Transglycosylase-associated protein	bi	sce_500	94.12	putative membrane protein
SCE1572_704	Serine--pyruvate aminotransferase (EC 2.6.1.51)	bi	sce_501	97.52	Serine--pyruvate aminotransferase (EC 2.6.1.51)
SCE1572_705	Chloride channel protein	bi	sce_502	86.58	Chloride channel protein
SCE1572_706	transcriptional regulator	bi	sce_503	88.2	transcriptional regulator
SCE1572_707	Glycyl-tRNA synthetase alpha chain (EC 6.1.1.14)	bi	sce_504	97.14	Glycyl-tRNA synthetase alpha chain (EC 6.1.1.14)
SCE1572_708	Orotate phosphoribosyltransferase (EC 2.4.2.10)	bi	sce_505	96.35	Orotate phosphoribosyltransferase (EC 2.4.2.10)
SCE1572_709	hypothetical protein	uni	sce_9938	42.11	EBNA-1
SCE1572_710	hypothetical protein	bi	sce_507	98.08	hypothetical protein
SCE1572_711	hypothetical protein	bi	sce_508	92.25	hypothetical protein
SCE1572_712	hypothetical protein	uni	sce_9445	38.26	hypothetical protein
SCE1572_713	styrene monooxygenase component 1-like protein	bi	sce_509	85.23	styrene monooxygenase component 1-like protein
SCE1572_714	hypothetical protein	-		0	
SCE1572_715	hypothetical protein	-		0	
SCE1572_716	FIG01086549: hypothetical protein	uni	sce_5307	56.42	FIG01086549: hypothetical protein
SCE1572_717	DNA repair protein RadC	uni	sce_512	78.85	DNA repair protein RadC
SCE1572_718	hypothetical protein	uni	sce_513	76.5	FIG01087636: hypothetical protein
SCE1572_719	FIG01087953: hypothetical protein	bi	sce_518	92.7	FIG01087953: hypothetical protein
SCE1572_720	FIG01087372: hypothetical protein	bi	sce_522	93.68	FIG01087372: hypothetical protein
SCE1572_721	FIG01087372: hypothetical protein	uni	sce_522	91.15	FIG01087372: hypothetical protein
SCE1572_722	Adenosylhomocysteinase (EC 3.3.1.1)	-		0	
SCE1572_723	hypothetical protein	-		0	
SCE1572_724	alpha/beta hydrolase fold	uni	sce_7460	36.52	hydrolase, alpha/beta fold family
SCE1572_725	Transcriptional regulator, AraC family	uni	sce_9985	39.45	Transcriptional regulator, AraC family
SCE1572_726	Periplasmic protein TonB links inner and outer membranes-like	bi	sce_527	87.79	conserved hypothetical protein-putative chloride channel
SCE1572_727	hypothetical protein	-		0	
SCE1572_728	Serine/threonine-protein kinase pkn2 (EC 2.7.11.1)	bi	sce_528	84.66	Serine/threonine-protein kinase pkn2 (EC 2.7.11.1)
SCE1572_729	hypothetical protein	bi	sce_529	94.36	hypothetical protein
SCE1572_730	hypothetical protein	bi	sce_532	88.45	hypothetical protein
SCE1572_731	protein of unknown function DUF58	bi	sce_533	91.78	hypothetical protein
SCE1572_732	Threonine dehydrogenase and related Zn-dependent dehydrogenases	bi	sce_534	85.45	Threonine dehydrogenase and related Zn-dependent dehydrogenases
SCE1572_733	hypothetical protein	bi	sce_535	86.62	hypothetical protein
SCE1572_734	Putative membrane protein precursor	bi	sce_537	88.38	Putative membrane protein precursor
SCE1572_735	similar to NF-X1 type zinc finger containing protein (2J511) (predicted)	bi	sce_538	79.36	similar to NF-X1 type zinc finger containing protein (2J511) (predicted)
SCE1572_736	hypothetical protein	bi	sce_539	72.76	hypothetical protein
SCE1572_737	hypothetical protein	-		0	
SCE1572_738	BNR/Asp-box repeat domain protein	bi	sce_540	73.48	FIG01089269: hypothetical protein
SCE1572_739	hypothetical protein	bi	sce_541	80.68	hypothetical protein
SCE1572_740	Phosphoesterase	bi	sce_542	71.57	Phosphoesterase
SCE1572_741	FIG01088764: hypothetical protein	bi	sce_543	81.58	FIG01088764: hypothetical protein
SCE1572_742	FIG01086707: hypothetical protein	bi	sce_544	75.82	FIG01086707: hypothetical protein
SCE1572_743	FIG01089121: hypothetical protein	bi	sce_545	84.62	FIG01089121: hypothetical protein
SCE1572_744	hypothetical protein	-		0	
SCE1572_745	serine/threonine protein kinase	bi	sce_548	89.91	serine/threonine protein kinase
SCE1572_746	Alpha,alpha-trehalose-phosphate synthase [UDP-forming] (EC 2.4.1.15) / Trehalose-6-phosphate phosphatase (EC 3.1.3.12)	bi	sce_549	86.47	Alpha,alpha-trehalose-phosphate synthase [UDP-forming] (EC 2.4.1.15) / Trehalose-6-phosphate phosphatase (EC 3.1.3.12)
SCE1572_747	hypothetical protein	uni	sce_8748	33.02	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_748	Septum formation protein Maf	bi	sce_551	88.29	Septum formation protein Maf
SCE1572_749	Transcriptional (co)regulator CytR	bi	sce_4659	58.51	LacI-family transcriptional regulator
SCE1572_750	Magnesium transporter	bi	sce_552	88.96	Magnesium transporter
SCE1572_751	hypothetical protein	bi	sce_553	80.1	hypothetical protein
SCE1572_752	FIG01085612: hypothetical protein	bi	sce_554	72.28	FIG01085612: hypothetical protein
SCE1572_753	FIG01085873: hypothetical protein	bi	sce_555	93.47	FIG01085873: hypothetical protein
SCE1572_754	Formyltetrahydrofolate deformylase (EC 3.5.1.10)	bi	sce_556	94.35	Formyltetrahydrofolate deformylase (EC 3.5.1.10)
SCE1572_755	Flagelliform silk protein	bi	sce_557	48.63	Flagelliform silk protein
SCE1572_756	hypothetical protein	-		0	
SCE1572_757	Glutathione S-transferase (EC 2.5.1.18)	bi	sce_558	88.7	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_758	Homocysteine S-methyltransferase (EC 2.1.1.10)	bi	sce_559	86.44	Homocysteine S-methyltransferase (EC 2.1.1.10)
SCE1572_759	FIG01089040: hypothetical protein	bi	sce_560	77.67	FIG01089040: hypothetical protein
SCE1572_760	Family S53 non-peptidase homologue	bi	sce_561	82.59	Kumamolysin
SCE1572_761	Tropomyosin-1, isoforms 33/34 (Tropomyosin II)	bi	sce_562	80.57	Tropomyosin-1, isoforms 33/34 (Tropomyosin II)
SCE1572_762	Maltodextrin glucosidase (EC 3.2.1.20)	bi	sce_92	83.37	Maltodextrin glucosidase (EC 3.2.1.20)
SCE1572_763	hypothetical protein	-		0	
SCE1572_764	FIG01085945: hypothetical protein	bi	sce_563	88.95	FIG01085945: hypothetical protein
SCE1572_765	hypothetical protein	bi	sce_2567	61.54	putative orphan protein
SCE1572_766	hypothetical protein	bi	sce_564	72.58	hypothetical protein
SCE1572_767	Copper tolerance protein	bi	sce_565	82.96	Copper tolerance protein
SCE1572_768	Multicopper oxidase	bi	sce_566	90.77	Multicopper oxidase
SCE1572_769	FIG01088333: hypothetical protein	bi	sce_567	77.95	FIG01088333: hypothetical protein
SCE1572_770	FIG01088012: hypothetical protein	bi	sce_568	86.57	FIG01088012: hypothetical protein
SCE1572_771	metallophosphoesterase	bi	sce_569	83.44	metallophosphoesterase
SCE1572_772	hypothetical protein	bi	sce_570	76.78	hypothetical protein
SCE1572_773	FIG01088987: hypothetical protein	bi	sce_571	89.52	FIG01088987: hypothetical protein
SCE1572_774	tyrosyl-tRNA synthetase(EC:6.1.1.1)	bi	sce_572	92.91	Tyrosyl-tRNA synthetase (EC 6.1.1.1) ## cluster 2
SCE1572_775	Integration host factor beta subunit	bi	sce_573	96.49	Integration host factor beta subunit
SCE1572_776	hypothetical protein	-		0	
SCE1572_777	tRNA pseudouridine synthase A (EC 4.2.1.70)	bi	sce_574	78.92	Membrane protein involved in colicin uptake-like protein
SCE1572_778	FIG01089647: hypothetical protein	bi	sce_575	81.61	FIG01089647: hypothetical protein
SCE1572_779	post-translocation molecular chaperone	bi	sce_576	75.76	DsbA oxidoreductase
SCE1572_780	hypothetical protein	-		0	
SCE1572_781	CG2839-PA	uni	sce_3858	37.23	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_782	hypothetical protein	bi	sce_577	93.56	zinc finger/thioredoxin putative
SCE1572_783	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)	bi	sce_578	93.95	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)
SCE1572_784	conserved hypothetical protein TIGR02757	bi	sce_579	94.2	hypothetical protein
SCE1572_785	Polyhydroxyalkanoic acid synthase	bi	sce_581	91.96	Polyhydroxyalkanoic acid synthase
SCE1572_786	hypothetical protein	-		0	
SCE1572_787	hypothetical protein	bi	sce_582	64.67	hypothetical protein
SCE1572_788	hypothetical protein	bi	sce_583	66.43	hypothetical protein
SCE1572_789	hypothetical protein	-		0	
SCE1572_790	hypothetical protein	-		0	
SCE1572_791	FIG01087057: hypothetical protein	bi	sce_584	96.74	FIG01087057: hypothetical protein
SCE1572_792	NADH ubiquinone oxidoreductase chain A (EC 1.6.5.3)	bi	sce_585	94.07	NADH ubiquinone oxidoreductase chain A (EC 1.6.5.3)
SCE1572_793	NADH-ubiquinone oxidoreductase chain B (EC 1.6.5.3)	bi	sce_586	96.34	NADH-ubiquinone oxidoreductase chain B (EC 1.6.5.3)
SCE1572_794	NADH-ubiquinone oxidoreductase chain C (EC 1.6.5.3)	bi	sce_587	88.05	NADH-ubiquinone oxidoreductase chain C (EC 1.6.5.3)
SCE1572_795	NADH-ubiquinone oxidoreductase chain D (EC 1.6.5.3)	bi	sce_588	96.53	NADH-ubiquinone oxidoreductase chain D (EC 1.6.5.3)
SCE1572_796	NADH-ubiquinone oxidoreductase chain G (EC 1.6.5.3)	bi	sce_589	94.86	NADH-ubiquinone oxidoreductase chain G (EC 1.6.5.3)
SCE1572_797	NADH-ubiquinone oxidoreductase chain H (EC 1.6.5.3)	bi	sce_590	88.78	NADH-ubiquinone oxidoreductase chain H (EC 1.6.5.3)
SCE1572_798	NADH-ubiquinone oxidoreductase chain I (EC 1.6.5.3)	bi	sce_591	94.64	NADH-ubiquinone oxidoreductase chain I (EC 1.6.5.3)
SCE1572_799	Aspartyl-tRNA(Asn) amidotransferase subunit B (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit B (EC 6.3.5.7	bi	sce_592	94.21	Aspartyl-tRNA(Asn) amidotransferase subunit B (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit B (EC 6.3.5.7)
SCE1572_800	hypothetical protein	-		0	
SCE1572_801	phospholipid/glycerol acyltransferase	bi	sce_593	85.82	phospholipid/glycerol acyltransferase
SCE1572_802	two-component hybrid sensor and regulator	bi	sce_594	92.77	two-component hybrid sensor and regulator
SCE1572_803	hypothetical protein	-		0	
SCE1572_804	hypothetical protein	-		0	
SCE1572_805	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_6158	65.59	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_806	hypothetical protein	-		0	
SCE1572_807	Dihydrodipicolinate synthase (EC 4.2.1.52)	uni	sce_8978	34.48	Dihydrodipicolinate synthase (EC 4.2.1.52)
SCE1572_808	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)	uni	sce_1410	45.71	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)
SCE1572_809	FIG00841528: hypothetical protein	uni	sce_225	68.88	FIG00841528: hypothetical protein
SCE1572_810	RsbR, positive regulator of sigma-B	uni	sce_6107	43.88	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_811	hypothetical protein	uni	sce_10334	49.44	FIG01087636: hypothetical protein
SCE1572_812	hypothetical protein	-		0	
SCE1572_813	RNA polymerase sigma factor RpoE	uni	sce_6134	35.29	RNA polymerase sigma factor RpoE
SCE1572_814	FIG01089478: hypothetical protein	uni	sce_6133	48.25	Twin-arginine translocation protein TatB
SCE1572_815	FIG01086383: hypothetical protein	uni	sce_6132	36.86	FIG01089345: hypothetical protein
SCE1572_816	FIG01086383: hypothetical protein	uni	sce_2804	30	FIG01086383: hypothetical protein
SCE1572_817	hypothetical protein	-		0	

SCE1572_818	hypothetical protein	-		0	
SCE1572_819	hypothetical protein	-		0	
SCE1572_820	hypothetical protein	-		0	
SCE1572_821	hypothetical protein	-		0	
SCE1572_822	FIG01170560: hypothetical protein	uni	sce_629	41.18	hypothetical protein
SCE1572_823	hypothetical protein	bi	sce_631	81.76	hypothetical protein
SCE1572_824	Signal transduction histidine kinase CheA (EC 2.7.3.-)	uni	sce_5835	48.4	putative PAS/PAC sensor protein
SCE1572_825	FIG01085809: hypothetical protein	bi	sce_621	92.87	FIG01085809: hypothetical protein
SCE1572_826	Cellulose-binding domain protein	bi	sce_622	83.19	Cellulose-binding domain protein
SCE1572_827	Fibronectin, type III domain protein	bi	sce_623	82.98	hypothetical protein
SCE1572_828	Dihydrolipoamide succinyltransferase component (E2) of 2-oxoglutarate dehydrogenase complex (EC 2.3.1.61)	bi	sce_624	73.38	FIG01085964: hypothetical protein
SCE1572_829	RNA polymerase sigma factor RpoE	bi	sce_625	92.27	RNA polymerase sigma factor RpoE
SCE1572_830	FIG01086144: hypothetical protein	bi	sce_626	74.2	FIG01086144: hypothetical protein
SCE1572_831	hypothetical protein	-		0	
SCE1572_832	hypothetical protein	-		0	
SCE1572_833	hypothetical protein	uni	sce_3190	53.73	large tegument protein
SCE1572_834	hypothetical protein	uni	sce_3277	44.93	hypothetical protein
SCE1572_835	hypothetical protein	bi	sce_633	83.64	hypothetical protein
SCE1572_836	D-alanine--D-alanine ligase A (EC 6.3.2.4)	bi	sce_634	92.78	D-alanine--D-alanine ligase A (EC 6.3.2.4)
SCE1572_837	Streptomycin 3''-kinase (EC 2.7.1.87)	-		0	
SCE1572_838	D,D-heptose 7-phosphate kinase	bi	sce_635	83.15	D,D-heptose 7-phosphate kinase
SCE1572_839	hypothetical protein	bi	sce_636	85.12	hypothetical protein
SCE1572_840	UvrD/Rep helicase family protein	bi	sce_637	94.01	putative helicase
SCE1572_841	COG3866 Pectate lyase	bi	sce_5488	71.54	COG3866 Pectate lyase
SCE1572_842	hypothetical protein	-		0	
SCE1572_843	Putative bacterial haemoglobin	bi	sce_639	80.27	Putative bacterial haemoglobin
SCE1572_844	serine/threonine protein kinase with Chase2 sensor	bi	sce_640	92.19	serine/threonine protein kinase(EC:2.7.1.-)
SCE1572_845	hypothetical protein	-		0	
SCE1572_846	hypothetical protein	-		0	
SCE1572_847	ATP synthase beta chain (EC 3.6.3.14)	uni	sce_4968	86.29	ATP synthase beta chain (EC 3.6.3.14)
SCE1572_848	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_3576	39.76	polyketide synthase of type I
SCE1572_849	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_4638	40.75	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_850	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	bi	sce_4640	41.64	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_851	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	bi	sce_3577	42.16	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_852	Ubiquinone biosynthesis monooxygenase UbiB	uni	sce_9255	30.69	Ubiquinone biosynthesis monooxygenase UbiB
SCE1572_853	hypothetical protein	uni	sce_5422	39.44	Probable secreted protein
SCE1572_854	hypothetical protein	-		0	
SCE1572_855	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	bi	sce_3582	51.71	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_856	hypothetical protein	-		0	
SCE1572_857	hypothetical protein	-		0	
SCE1572_858	hypothetical protein	-		0	
SCE1572_859	Putative oxidoreductase YncB	uni	sce_9276	47.04	Quinone oxidoreductase (EC 1.6.5.5)
SCE1572_860	Acyl carrier protein	bi	sce_3570	40.74	Acyl carrier protein
SCE1572_861	Methylglutaconyl-CoA hydratase (EC 4.2.1.18)	bi	sce_3567	38.15	Methylglutaconyl-CoA hydratase (EC 4.2.1.18)
SCE1572_862	hypothetical protein	-		0	
SCE1572_863	Enoyl-CoA hydratase (EC 4.2.1.17)	bi	sce_3566	44.63	Enoyl-CoA hydratase (EC 4.2.1.17)
SCE1572_864	Hydroxymethylglutaryl-CoA synthase (EC 2.3.3.10)	bi	sce_3568	48.92	Hydroxymethylglutaryl-CoA synthase (EC 2.3.3.10)
SCE1572_865	Mobile element protein	-		0	
SCE1572_866	Mobile element protein	-		0	
SCE1572_867	hypothetical protein	bi	sce_641	85.58	FIG01086750: hypothetical protein
SCE1572_868	MFS permease	bi	sce_642	88.06	MFS permease
SCE1572_869	hypothetical protein	bi	sce_644	75.56	hypothetical protein
SCE1572_870	glutamyl-Q-tRNA synthetase	bi	sce_645	93.36	glutamyl-Q-tRNA synthetase
SCE1572_871	Glutamyl-tRNA synthetase (EC 6.1.1.17) @ Glutamyl-tRNA(Gln) synthetase (EC 6.1.1.24)	bi	sce_646	91.82	Glutamyl-tRNA synthetase (EC 6.1.1.17) @ Glutamyl-tRNA(Gln) synthetase (EC 6.1.1.24)
SCE1572_872	Adenylate/guanylate cyclase (EC 4.6.1.2)	bi	sce_647	89.6	Adenylate/guanylate cyclase (EC 4.6.1.2)
SCE1572_873	hypothetical protein	-		0	
SCE1572_874	PE-PGRS FAMILY PROTEIN	bi	sce_648	71.73	5'-nucleotidase (EC 3.1.3.5)
SCE1572_875	hypothetical protein	uni	sce_1146	33.53	Gll0645 protein
SCE1572_876	heat shock protein SP21	bi	sce_649	88.1	heat shock protein, Hsp20 family
SCE1572_877	heat shock protein Hsp20	bi	sce_651	87.66	heat shock protein Hsp20
SCE1572_878	hypothetical protein	bi	sce_653	79.89	hypothetical protein
SCE1572_879	Transcriptional regulator, MerR family	bi	sce_654	88.89	Transcriptional regulator, MerR family
SCE1572_880	Phytoene dehydrogenase (EC 1.14.99.-)	bi	sce_655	92.5	Phytoene dehydrogenase (EC 1.14.99.-)
SCE1572_881	Phytoene synthase (EC 2.5.1.32)	bi	sce_656	91.19	Phytoene synthase (EC 2.5.1.32)
SCE1572_882	conserved hypothetical protein	bi	sce_657	90.55	Lycopene cyclase, CruA type
SCE1572_883	hypothetical protein	-		0	
SCE1572_884	Beta-carotene hydroxylase	bi	sce_658	90.18	Beta-carotene hydroxylase
SCE1572_885	Hydroxyneurosporene dehydrogenase (EC 1.-.-.-)	bi	sce_659	89.46	Hydroxyneurosporene dehydrogenase (EC 1.-.-.-)
SCE1572_886	Methoxyneurosporene dehydrogenase (EC 1.14.99.-)	bi	sce_660	87.05	Methoxyneurosporene dehydrogenase (EC 1.14.99.-)
SCE1572_887	Octaprenyl-diphosphate synthase (EC 2.5.1.-) / Dimethylallyltransferase (EC 2.5.1.1) / Geranyltranstransferase (farnesyldiphos	bi	sce_661	93.71	Octaprenyl-diphosphate synthase (EC 2.5.1.-) / Dimethylallyltransferase (EC 2.5.1.1) / Geranyltranstransferase (farnesyldiphosphate
SCE1572_888	hypothetical protein	-		0	
SCE1572_889	isobutyryl-CoA dehydrogenase	bi	sce_662	90.31	isobutyryl-CoA dehydrogenase
SCE1572_890	Mesaconyl-CoA hydratase	bi	sce_663	91.41	Mesaconyl-CoA hydratase
SCE1572_891	FIG01089485: hypothetical protein	bi	sce_664	85.23	FIG01089485: hypothetical protein
SCE1572_892	hypothetical protein	-		0	
SCE1572_893	hypothetical protein	bi	sce_666	93.98	hypothetical protein
SCE1572_894	regulatory protein	bi	sce_667	95.04	regulatory protein
SCE1572_895	hypothetical protein	bi	sce_668	77.08	hypothetical protein
SCE1572_896	hypothetical protein	-		0	
SCE1572_897	FIG01087510: hypothetical protein	uni	sce_3394	44.3	FIG01087510: hypothetical protein
SCE1572_898	Ribokinase (EC 2.7.1.15)	bi	sce_670	92.88	Ribokinase (EC 2.7.1.15)
SCE1572_899	hypothetical protein	-		0	
SCE1572_900	Von Willebrand factor type A domain protein	bi	sce_671	82.4	Von Willebrand factor type A domain protein
SCE1572_901	NAD-dependent protein deacetylase of SIR2 family	bi	sce_672	89.96	NAD-dependent protein deacetylase of SIR2 family
SCE1572_902	DUF378 domain-containing protein	bi	sce_674	87.34	conserved hypothetical protein
SCE1572_903	Protein-L-isoaspartate O-methyltransferase (EC 2.1.1.77)	bi	sce_6084	45.37	Protein-L-isoaspartate O-methyltransferase (EC 2.1.1.77)
SCE1572_904	carboxyvinyl-carboxyphosphonate phosphorylmutase	bi	sce_676	92.39	carboxyvinyl-carboxyphosphonate phosphorylmutase
SCE1572_905	Acyl-CoA dehydrogenases	bi	sce_677	83.97	Acyl-CoA dehydrogenases
SCE1572_906	Uncharacterized glutathione S-transferase-like protein	bi	sce_678	93.26	Uncharacterized glutathione S-transferase-like protein
SCE1572_907	ribosomal protein N-acetyltransferase	bi	sce_680	85.86	ribosomal protein N-acetyltransferase
SCE1572_908	acetyltransferase, GNAT family	bi	sce_681	86.42	acetyltransferase, GNAT family
SCE1572_909	sensor histidine kinase with a GAF, a Ser/Thr protein kinase, and an unknown domain	uni	sce_2065	72.94	putative sensory box histidine kinase
SCE1572_910	Adenylate cyclase (EC 4.6.1.1)	uni	sce_2065	69.03	putative sensory box histidine kinase
SCE1572_911	hypothetical protein	uni	sce_8748	31.34	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_912	TPR domain protein, putative component of TonB system	bi	sce_682	82.81	TPR domain protein, putative component of TonB system
SCE1572_913	Collagen alpha 1(I) chain precursor	bi	sce_683	80.6	Collagen alpha 1(I) chain precursor
SCE1572_914	putative polyhydroxyalkanoic acid system protein	bi	sce_684	86.73	putative polyhydroxyalkanoic acid system protein
SCE1572_915	hypothetical protein	-		0	
SCE1572_916	hypothetical protein	-		0	
SCE1572_917	exonuclease SbcC, putative(EC:3.1.11.-)	bi	sce_685	95.12	hypothetical protein
SCE1572_918	FIG01086853: hypothetical protein	bi	sce_686	84.18	FIG01086853: hypothetical protein
SCE1572_919	Uncharacterized protein jhp_0259	bi	sce_687	96.38	Uncharacterized protein jhp_0259
SCE1572_920	hypothetical protein	-		0	
SCE1572_921	Phytoene desaturase, neurosporene or lycopene producing (EC 1.3.-.-)	bi	sce_688	89.61	Phytoene desaturase, neurosporene or lycopene producing (EC 1.3.-.-)
SCE1572_922	FIG01086871: hypothetical protein	bi	sce_689	77.27	FIG01086871: hypothetical protein
SCE1572_923	putative ABC transporter, permease protein	bi	sce_690	85.76	putative ABC transporter, permease protein
SCE1572_924	hypothetical protein	bi	sce_691	90.91	hypothetical protein
SCE1572_925	Rhomboid family protein	bi	sce_692	86.81	Rhomboid family protein
SCE1572_926	DnaJ-class molecular chaperone CbpA	bi	sce_694	92.19	DnaJ-class molecular chaperone CbpA
SCE1572_927	putative Fe-S oxidoreductase	bi	sce_695	79.83	FIG01089658: hypothetical protein
SCE1572_928	FIG01088334: hypothetical protein	bi	sce_696	67.57	FIG01088334: hypothetical protein
SCE1572_929	Para-aminobenzoate synthase, aminase component (EC 2.6.1.85)	bi	sce_697	76.79	Para-aminobenzoate synthase, aminase component (EC 2.6.1.85)
SCE1572_930	FIG01087707: hypothetical protein	bi	sce_698	80.98	FIG01087707: hypothetical protein
SCE1572_931	DNA-binding response regulator	bi	sce_699	98.97	DNA-binding response regulator
SCE1572_932	hypothetical protein	-		0	
SCE1572_933	Two-component hybrid sensor and regulator	bi	sce_701	91.37	two-component hybrid sensor and regulator
SCE1572_934	Electron transfer flavoprotein, alpha subunit	bi	sce_702	94.12	Electron transfer flavoprotein, alpha subunit
SCE1572_935	Electron transfer flavoprotein, beta subunit	bi	sce_703	96	Electron transfer flavoprotein, beta subunit
SCE1572_936	FIG01088222: hypothetical protein	bi	sce_704	82.85	FIG01088222: hypothetical protein
SCE1572_937	FIG01089428: hypothetical protein	bi	sce_705	76.78	FIG01089428: hypothetical protein
SCE1572_938	hypothetical protein	bi	sce_706	61.54	FIG01088996: hypothetical protein
SCE1572_939	serine/threonine protein kinase	bi	sce_707	73.24	serine/threonine protein kinase
SCE1572_940	serine/threonine protein kinase	bi	sce_708	61.89	serine/threonine-protein kinase PKN1(EC:2.7.1.37)
SCE1572_941	putative Fe-S oxidoreductase	bi	sce_709	58.58	OmpA/MotB domain protein
SCE1572_942	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	uni	sce_710	64.1	hypothetical protein
SCE1572_943	FIG01085829: hypothetical protein	uni	sce_711	67.07	FIG01085829: hypothetical protein
SCE1572_944	PE-PGRS FAMILY PROTEIN	bi	sce_711	74.19	FIG01085829: hypothetical protein
SCE1572_945	hypothetical protein	bi	sce_710	65.47	hypothetical protein
SCE1572_946	FIG01085829: hypothetical protein	uni	sce_711	72.69	FIG01085829: hypothetical protein
SCE1572_947	hypothetical protein	bi	sce_712	62.86	hypothetical protein
SCE1572_948	FIG01085829: hypothetical protein	uni	sce_711	71.54	FIG01085829: hypothetical protein
SCE1572_949	FIG01087249: hypothetical protein	uni	sce_2338	95	Transposase
SCE1572_950	FIG01087249: hypothetical protein	uni	sce_2337	85.71	FIG01087249: hypothetical protein
SCE1572_951	hypothetical protein	-		0	
SCE1572_952	hypothetical protein	bi	sce_8257	65.12	hypothetical protein
SCE1572_953	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_716	73	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_954	Epstein-Barr nuclear antigen 1 (EBV nuclear antigen 1) (EBNA-1)	uni	sce_708	53.44	serine/threonine-protein kinase PKN1(EC:2.7.1.37)
SCE1572_955	hypothetical protein	-		0	
SCE1572_956	hypothetical protein	-		0	
SCE1572_957	L-aspartate oxidase (EC 1.4.3.16)	bi	sce_719	95.89	L-aspartate oxidase (EC 1.4.3.16)
SCE1572_958	Possible membrane associated protease	bi	sce_720	68.97	Possible membrane associated protease
SCE1572_959	phospholipase, patatin family	bi	sce_721	92.01	phospholipase, patatin family
SCE1572_960	UPF0225 protein YchJ	bi	sce_722	90.96	UPF0225 protein YchJ
SCE1572_961	FIG01089145: hypothetical protein	bi	sce_723	92.26	FIG01089145: hypothetical protein
SCE1572_962	Translation elongation factor G	bi	sce_724	94.39	Translation elongation factor G
SCE1572_963	FIG01088838: hypothetical protein	bi	sce_725	95.07	FIG01088838: hypothetical protein
SCE1572_964	hypothetical protein	bi	sce_726	86.11	hypothetical protein
SCE1572_965	FIG01089355: hypothetical protein	bi	sce_727	51.96	FIG01089355: hypothetical protein
SCE1572_966	Possible glucoamylase (Diverged) , 15 family	uni	sce_7119	63.73	hypothetical protein
SCE1572_967	hypothetical protein	-		0	
SCE1572_968	18K peptidoglycan-associated outer membrane lipoprotein; Peptidoglycan-associated lipoprotein precursor; Outer membrane p	bi	sce_728	95.11	18K peptidoglycan-associated outer membrane lipoprotein; Peptidoglycan-associated lipoprotein precursor; Outer membrane protein
SCE1572_969	MotA/TolQ/ExbB proton channel family protein	bi	sce_729	92.68	MotA/TolQ/ExbB proton channel family protein
SCE1572_970	Biopolymer transport protein ExbD/TolR	bi	sce_730	96.36	Biopolymer transport protein ExbD/TolR
SCE1572_971	Hypothetical protein	bi	sce_731	90.21	Hypothetical protein
SCE1572_972	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins	bi	sce_732	93.69	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins
SCE1572_973	FIG01086217: hypothetical protein	bi	sce_733	83.6	FIG01086217: hypothetical protein
SCE1572_974	hypothetical protein	-		0	
SCE1572_975	FIG01084993: hypothetical protein	bi	sce_734	86.44	FIG01084993: hypothetical protein
SCE1572_976	hypothetical protein	-		0	
SCE1572_977	serine/threonine protein kinase	bi	sce_736	99.47	serine/threonine protein kinase
SCE1572_978	Phosphomethylpyrimidine kinase (EC 2.7.4.7)	bi	sce_737	92.7	Phosphomethylpyrimidine kinase (EC 2.7.4.7)
SCE1572_979	FIG01088977: hypothetical protein	bi	sce_739	94.12	FIG01088977: hypothetical protein
SCE1572_980	sodium ABC transporter ATP-binding protein	bi	sce_740	85.82	sodium ABC transporter ATP-binding protein
SCE1572_981	Abortive infection protein	bi	sce_741	88.49	Na ABC transporter permease protein

SCE1572_982	Extensin-like	uni	sce_1463	53.62	FIG01085728: hypothetical protein
SCE1572_983	FIG01122936: hypothetical protein	bi	sce_742	92.51	FIG01122936: hypothetical protein
SCE1572_984	Regulatory protein, LacI	bi	sce_744	92.92	Regulatory protein, LacI
SCE1572_985	Phosphoserine phosphatase (EC 3.1.3.3)	bi	sce_745	96.16	Phosphoserine phosphatase (EC 3.1.3.3)
SCE1572_986	Excinuclease ABC subunit B	bi	sce_747	93.78	Excinuclease ABC subunit B
SCE1572_987	Probable GTPase related to EngC	bi	sce_749	87.5	Probable GTPase related to EngC
SCE1572_988	RsbR, positive regulator of sigma-B	uni	sce_5156	46.88	RsbR, positive regulator of sigma-B
SCE1572_989	hypothetical protein	-		0	
SCE1572_990	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_750	95.99	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_991	hypothetical protein	-		0	
SCE1572_992	hypothetical protein	bi	sce_752	92.64	hypothetical protein
SCE1572_993	short-chain dehydrogenase/reductase SDR	bi	sce_753	91.43	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_994	hypothetical protein	-		0	
SCE1572_995	hypothetical protein	-		0	
SCE1572_996	Sarcosine oxidase beta subunit (EC 1.5.3.1)	bi	sce_754	95.03	Sarcosine oxidase beta subunit (EC 1.5.3.1)
SCE1572_997	3'(2'),5'-bisphosphate nucleotidase (EC 3.1.3.7)	bi	sce_755	90.78	3'(2'),5'-bisphosphate nucleotidase (EC 3.1.3.7)
SCE1572_998	Aldo-keto reductase	bi	sce_756	85.58	Aldo-keto reductase
SCE1572_999	kelch domain protein	uni	sce_7673	45.22	FIG01085006: hypothetical protein
SCE1572_1000	Thrombospondin	uni	sce_7158	50	Streptococcal hemagglutinin protein
SCE1572_1001	hypothetical protein	-		0	
SCE1572_1002	FIG01086989: hypothetical protein	bi	sce_757	90.55	FIG01086989: hypothetical protein
SCE1572_1003	putative esterase	bi	sce_758	78.42	putative esterase
SCE1572_1004	Tat (Twin-arginine translocation) pathway signal sequence domain protein	bi	sce_5158	84.41	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_1005	Cellulose-binding domain protein	bi	sce_1115	78.97	Cellulose-binding domain protein
SCE1572_1006	Polyphosphate glucokinase (EC 2.7.1.63)	bi	sce_759	92.24	Polyphosphate glucokinase (EC 2.7.1.63)
SCE1572_1007	putative cytochrome P450 hydroxylase	bi	sce_760	89.64	putative cytochrome P450 hydroxylase
SCE1572_1008	Succinylglutamic semialdehyde dehydrogenase (EC 1.2.1.71)	bi	sce_761	89.75	Succinylglutamic semialdehyde dehydrogenase (EC 1.2.1.71)
SCE1572_1009	FIG01088242: hypothetical protein	bi	sce_763	89.41	FIG01088242: hypothetical protein
SCE1572_1010	FIG00496687: hypothetical protein	uni	sce_7493	39.63	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)
SCE1572_1011	histidine kinase	bi	sce_9659	47.35	Response Regulator Receiver Signal Transduction Histidine Kinase
SCE1572_1012	hypothetical protein	-		0	
SCE1572_1013	Serine/threonine protein kinase PrkC, regulator of stationary phase	bi	sce_768	88.37	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_1014	FIG01086311: hypothetical protein	bi	sce_769	63.68	FIG01086311: hypothetical protein
SCE1572_1015	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_3750	46.46	serine/threonine protein kinase with WD40 repeats
SCE1572_1016	hypothetical protein	-		0	
SCE1572_1017	FIG01087426: hypothetical protein	bi	sce_772	85.86	FIG01087426: hypothetical protein
SCE1572_1018	Flagellar regulatory protein FleQ	bi	sce_773	82.28	Flagellar regulatory protein FleQ
SCE1572_1019	hypothetical protein	-		0	
SCE1572_1020	hypothetical protein	bi	sce_7608	45.33	Methyltransferase type 11
SCE1572_1021	Arsenical pump-driving ATPase (EC 3.6.3.16)	uni	sce_9274	28.52	Arsenical pump-driving ATPase (EC 3.6.3.16)
SCE1572_1022	SAM-dependent methyltransferase DSY4148 (UbiE paralog)	bi	sce_6293	42.61	SAM-dependent methyltransferase
SCE1572_1023	RNA polymerase sigma factor SigZ	bi	sce_5566	34.21	RNA polymerase sigma-70 factor, ECF subfamily
SCE1572_1024	hypothetical protein	uni	sce_5645	30.52	Cell division inhibitor
SCE1572_1025	Arsenical resistance operon repressor	uni	sce_7064	40.85	Transcriptional regulator, ArsR family
SCE1572_1026	Arsenical resistance operon trans-acting repressor ArsD	-		0	
SCE1572_1027	Arsenical pump-driving ATPase (EC 3.6.3.16)	uni	sce_9274	28.23	Arsenical pump-driving ATPase (EC 3.6.3.16)
SCE1572_1028	hypothetical protein	uni	sce_6287	74.51	Lactoylglutathione lyase (EC 4.4.1.5) @ Cadmium-induced protein CadI
SCE1572_1029	Aquaporin Z	uni	sce_6286	92.02	Aquaporin Z
SCE1572_1030	Arsenate reductase (EC 1.20.4.1)	bi	sce_6285	87.31	Arsenate reductase (EC 1.20.4.1)
SCE1572_1031	Arsenate reductase (EC 1.20.4.1)	uni	sce_6285	29.6	Arsenate reductase (EC 1.20.4.1)
SCE1572_1032	hypothetical protein	uni	sce_6572	34.57	FIG01085864: hypothetical protein
SCE1572_1033	CAAX amino terminal protease family protein	bi	sce_9382	51.88	CAAX amino terminal protease family protein
SCE1572_1034	BchE/P-methylase family protein	uni	sce_778	89.84	BchE/P-methylase family protein
SCE1572_1035	FIG01086169: hypothetical protein	bi	sce_10117	84.08	FIG01086169: hypothetical protein
SCE1572_1036	hypothetical protein	bi	sce_7392	33.33	FIG01089338: hypothetical protein
SCE1572_1037	hypothetical protein	-		0	
SCE1572_1038	hypothetical protein	bi	sce_6088	62.32	hypothetical protein
SCE1572_1039	Twin-arginine translocation pathway signal(EC:1.11.1.10)	uni	sce_9708	29.55	Beta-ketoadipate enol-lactone hydrolase (EC 3.1.1.24)
SCE1572_1040	FIG01087426: hypothetical protein	bi	sce_775	82.55	FIG01087426: hypothetical protein
SCE1572_1041	serine/threonine protein kinase	uni	sce_1995	56.82	serine/threonine protein kinase
SCE1572_1042	FIG01085121: hypothetical protein	bi	sce_780	77.27	FIG01085121: hypothetical protein
SCE1572_1043	FIG01085121: hypothetical protein	uni	sce_780	67.61	FIG01085121: hypothetical protein
SCE1572_1044	hypothetical protein	uni	sce_780	73.05	FIG01085121: hypothetical protein
SCE1572_1045	hypothetical protein	bi	sce_781	78.81	hypothetical protein
SCE1572_1046	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase (EC 2.6.1.62)	bi	sce_782	89.93	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase (EC 2.6.1.62)
SCE1572_1047	EstC	bi	sce_784	86.22	hydrolase, alpha/beta fold family protein / similar to ethylene-induced esterase [Citrus sinensis] GI:14279437, polyneuridine aldehyd
SCE1572_1048	RNA polymerase sigma factor RpoE	bi	sce_785	83.6	RNA polymerase sigma factor RpoE
SCE1572_1049	hypothetical protein	bi	sce_786	91.25	hypothetical protein
SCE1572_1050	hypothetical protein	-		0	
SCE1572_1051	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_3616	84.21	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_1052	FIG01089703: hypothetical protein	bi	sce_8827	63.64	FIG01089703: hypothetical protein
SCE1572_1053	FIG01087894: hypothetical protein	bi	sce_8826	88.5	FIG01087894: hypothetical protein
SCE1572_1054	Serine/threonine-protein kinase (EC 2.7.1.-)	bi	sce_8825	77.56	Serine/threonine-protein kinase (EC 2.7.1.-)
SCE1572_1055	Phosphoenolpyruvate synthase (EC 2.7.9.2)	bi	sce_4687	85.78	Phosphoenolpyruvate synthase (EC 2.7.9.2)
SCE1572_1056	BchE/P-methylase family protein	bi	sce_778	89.94	BchE/P-methylase family protein
SCE1572_1057	Cold-shock DEAD-box protein A	bi	sce_792	82.91	Cold-shock DEAD-box protein A
SCE1572_1058	hypothetical protein	bi	sce_793	91.22	hypothetical protein
SCE1572_1059	Pressure-regulated protein	bi	sce_4898	79.74	Pressure-regulated protein
SCE1572_1060	hypothetical protein	-		0	
SCE1572_1061	putative dipeptidase	bi	sce_794	65.27	putative dipeptidase
SCE1572_1062	hypothetical protein	-		0	
SCE1572_1063	hypothetical protein	-		0	
SCE1572_1064	two-component hybrid sensor and regulator	uni	sce_7642	49.53	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_1065	FIG01085111: hypothetical protein	bi	sce_9451	92.8	FIG01085111: hypothetical protein
SCE1572_1066	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3) / long-chain acyl-CoA synthetase	bi	sce_9453	96.98	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3) / long-chain acyl-CoA synthetase
SCE1572_1067	3-oxoacyl-[acyl-carrier-protein] synthase III (EC 2.3.1.41)	bi	sce_9454	96.01	3-oxoacyl-[acyl-carrier-protein] synthase III (EC 2.3.1.41)
SCE1572_1068	hypothetical protein	-		0	
SCE1572_1069	Mobile element protein	uni	sce_6934	24.62	3-aminobutyryl-CoA ammonia-lyase (EC 4.3.1.14) / 3-keto-5-aminohexanoate cleavage enzyme
SCE1572_1070	Quinone oxidoreductase (EC 1.6.5.5)	uni	sce_3869	47.83	Quinone oxidoreductase (EC 1.6.5.5)
SCE1572_1071	Probable taurine catabolism dioxygenase	uni	sce_8413	37.04	Alpha-ketoglutarate-dependent taurine dioxygenase (EC 1.14.11.17)
SCE1572_1072	Cytochrome c family protein	bi	sce_795	82.97	Cytochrome c family protein
SCE1572_1073	putative Dehydrogenase (partial)	uni	sce_3971	28.87	6-phosphogluconate dehydrogenase, decarboxylating (EC 1.1.1.44)
SCE1572_1074	hypothetical protein	-		0	
SCE1572_1075	Na-Ca exchanger/integrin-beta4	uni	sce_8443	34.52	hypothetical protein
SCE1572_1076	hypothetical protein	-		0	
SCE1572_1077	transporter, putative	bi	sce_5210	57.86	transporter, putative
SCE1572_1078	putative lipoprotein	bi	sce_5665	77.37	putative lipoprotein
SCE1572_1079	hypothetical protein	-		0	
SCE1572_1080	membrane protein, MarC family	bi	sce_796	92.38	membrane protein, MarC family
SCE1572_1081	putative sensory transduction histidine kinase	bi	sce_798	71.9	putative sensory transduction histidine kinase
SCE1572_1082	Oxidoreductase	bi	sce_799	78.81	YesF
SCE1572_1083	conserved hypothetical protein	bi	sce_800	78.15	conserved hypothetical protein
SCE1572_1084	FIG01086697: hypothetical protein	bi	sce_801	84.35	FIG01086697: hypothetical protein
SCE1572_1085	Rab family protein	bi	sce_7119	65.52	hypothetical protein
SCE1572_1086	Parallel beta-helix repeat	bi	sce_802	86.08	Parallel beta-helix repeat
SCE1572_1087	Kazal domain protein	uni	sce_7094	63.93	Transposase
SCE1572_1088	hypothetical protein	-		0	
SCE1572_1089	Bicyclomycin resistance protein	uni	sce_9993	26.61	Permeases of the major facilitator superfamily
SCE1572_1090	Thioredoxin reductase (EC 1.8.1.9)	uni	sce_9822	38.31	Thioredoxin reductase (EC 1.8.1.9)
SCE1572_1091	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_5146	68.26	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_1092	hypothetical protein	-		0	
SCE1572_1093	putative RNA polymerase sigma factor	uni	sce_7651	59.66	putative RNA polymerase sigma factor
SCE1572_1094	Multimeric flavodoxin WrbA	-		0	
SCE1572_1095	hypothetical protein	bi	sce_5295	77.44	DNA gyrase subunit B
SCE1572_1096	hypothetical protein	-		0	
SCE1572_1097	MSHA biogenesis protein MshQ	uni	sce_171	33.1	integral membrane protein
SCE1572_1098	FIG01087003: hypothetical protein	uni	sce_3750	56.57	serine/threonine protein kinase with WD40 repeats
SCE1572_1099	Multiple EGF-like-domain protein 3 precursor	uni	sce_3405	56.67	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_1100	Methionine ABC transporter ATP-binding protein	uni	sce_1243	41.09	Lipoprotein releasing system ATP-binding protein LolD
SCE1572_1101	Methionine ABC transporter permease protein	uni	sce_7917	31.09	L-proline glycine betaine binding ABC transporter protein ProX (TC 3.A.1.12.1) / Osmotic adaptation
SCE1572_1102	Methionine ABC transporter substrate-binding protein	-		0	
SCE1572_1103	hypothetical protein	-		0	
SCE1572_1104	Putative metal-dependent phosphohydrolase(EC:3.1.7.2)	bi	sce_6782	36.27	GTP pyrophosphokinase (EC 2.7.6.5)
SCE1572_1105	Aromatic-L-amino-acid decarboxylase (EC 4.1.1.28)	bi	sce_2563	33.94	Aromatic-L-amino-acid decarboxylase (EC 4.1.1.28)
SCE1572_1106	Cystathionine gamma-synthase(EC:2.5.1.48)	uni	sce_6912	39.64	Cystathionine gamma-lyase (EC 4.4.1.1)
SCE1572_1107	Inosamine-phosphate amidinotransferase 1 (EC 2.1.4.2) (Inosamine-phosphate amidinotransferase I) (Aminocyclitol amidinotr	-		0	
SCE1572_1108	fatty acid desaturase family protein, putative	uni	sce_5973	27.14	Beta-carotene hydroxylase
SCE1572_1109	hypothetical protein	-		0	
SCE1572_1110	hypothetical protein	-		0	
SCE1572_1111	hypothetical protein	-		0	
SCE1572_1112	Transcriptional regulator, AraC family	uni	sce_1358	44.44	Transcriptional regulator, AraC family
SCE1572_1113	hypothetical protein	-		0	
SCE1572_1114	Dipeptidyl aminopeptidases/acylaminoacyl-peptidases-like	bi	sce_7128	35.08	unknown
SCE1572_1115	hypothetical protein	uni	sce_180	27.89	Rhodanese-like domain protein
SCE1572_1116	hypothetical protein	-		0	
SCE1572_1117	Transcriptional regulator, LysR family	uni	sce_9329	45.17	Transcriptional regulator, LysR family
SCE1572_1118	Rhs-family protein	uni	sce_10193	26.59	Rhs family carbohydrate-binding protein
SCE1572_1119	hypothetical protein	-		0	
SCE1572_1120	hypothetical protein	-		0	
SCE1572_1121	hypothetical protein	-		0	
SCE1572_1122	hypothetical protein	-		0	
SCE1572_1123	hypothetical protein	-		0	
SCE1572_1124	hypothetical protein	-		0	
SCE1572_1125	hypothetical protein	-		0	
SCE1572_1126	hypothetical protein	-		0	
SCE1572_1127	aldo/keto reductase Tas	bi	sce_807	94.32	aldo/keto reductase
SCE1572_1128	Pyoverdin biosynthesis protein PvdN, putative aminotransferase, class V	bi	sce_808	81.29	Pyoverdin biosynthesis protein PvdN, putative aminotransferase, class V
SCE1572_1129	Nucleoside-diphosphate-sugar epimerases	-		0	
SCE1572_1130	hypothetical protein	-		0	
SCE1572_1131	Transcriptional regulator, LysR family	uni	sce_862	41.81	Transcriptional regulator, LysR family
SCE1572_1132	3-demethylubiquinone-9 3-methyltransferase	bi	sce_809	76.1	3-demethylubiquinone-9 3-methyltransferase
SCE1572_1133	hypothetical protein	bi	sce_810	68.22	hypothetical protein
SCE1572_1134	hypothetical protein	bi	sce_8742	66.67	Flavoredoxin
SCE1572_1135	hypothetical protein	-		0	
SCE1572_1136	hypothetical protein	-		0	
SCE1572_1137	FIG01086053: hypothetical protein	uni	sce_9398	83.05	FIG01086053: hypothetical protein
SCE1572_1138	Transcriptional regulator, TetR family	uni	sce_5426	36.36	Transcriptional regulator, TetR family
SCE1572_1139	Lignostilbene-alpha,beta-dioxygenase and related enzymes	-		0	
SCE1572_1140	hypothetical protein	bi	sce_814	70.93	hypothetical protein
SCE1572_1141	RNA ligase 2	-		0	
SCE1572_1142	Sensor protein	bi	sce_815	86.1	Sensor protein
SCE1572_1143	hypothetical protein	bi	sce_816	74.46	hypothetical protein
SCE1572_1144	hypothetical protein	uni	sce_5962	38.13	Similarity
SCE1572_1145	hypothetical protein	uni	sce_3858	33.51	Adenosylhomocysteinase (EC 3.3.1.1)

SCE1572_1146	conserved hypothetical protein	bi	sce_817	83.13	hypothetical protein
SCE1572_1147	FIG01089218: hypothetical protein	bi	sce_3880	55.34	FIG01089218: hypothetical protein
SCE1572_1148	FIG01085391: hypothetical protein	bi	sce_3879	66.62	FIG01085391: hypothetical protein
SCE1572_1149	hypothetical protein	-		0	
SCE1572_1150	hypothetical protein	-		0	
SCE1572_1151	conserved hypothetical protein	bi	sce_7978	68.25	conserved hypothetical protein
SCE1572_1152	hypothetical protein	uni	sce_10127	33.91	hypothetical protein
SCE1572_1153	Aromatic hydrocarbon utilization transcriptional regulator CatR (LysR family)	uni	sce_3966	55.42	LysR family transcriptional regulator YnfL
SCE1572_1154	hypothetical protein	-		0	
SCE1572_1155	HupE-UreJ family metal transporter	-		0	
SCE1572_1156	hypothetical protein	-		0	
SCE1572_1157	probable transcriptional regulator	uni	sce_196	40.26	Transcriptional regulator, LysR family
SCE1572_1158	Quinone oxidoreductase (EC 1.6.5.5)	uni	sce_10217	37.99	Quinone oxidoreductase (EC 1.6.5.5)
SCE1572_1159	putative lipoprotein	uni	sce_6522	30.62	hypothetical protein
SCE1572_1160	TonB family protein / TonB-dependent receptor	uni	sce_10401	50.89	TonB family protein / TonB-dependent receptor
SCE1572_1161	oxidoreductase	-		0	
SCE1572_1162	Inositol-1-monophosphatase (EC 3.1.3.25)	uni	sce_8540	27.82	Inositol-1-monophosphatase (EC 3.1.3.25)
SCE1572_1163	LysR-family transcriptional regulator	uni	sce_1249	45.21	Transcriptional regulator, LysR family
SCE1572_1164	FIG01088080: hypothetical protein	bi	sce_854	76.19	FIG01088080: hypothetical protein
SCE1572_1165	Prolyl endopeptidase (EC 3.4.21.26)	bi	sce_856	84.14	Prolyl endopeptidase (EC 3.4.21.26)
SCE1572_1166	Secreted trypsin-like serine protease	bi	sce_857	85.21	Secreted trypsin-like serine protease
SCE1572_1167	hypothetical protein	-		0	
SCE1572_1168	Anaerobic dimethyl sulfoxide reductase chain B (EC 1.8.99.-)	bi	sce_4696	51.04	Anaerobic dimethyl sulfoxide reductase chain B (EC 1.8.99.-)
SCE1572_1169	N-Acetyl-D-glucosamine ABC transport system, sugar-binding protein	bi	sce_858	84.8	N-Acetyl-D-glucosamine ABC transport system, sugar-binding protein
SCE1572_1170	sugar ABC transporter permease protein	uni	sce_10351	34.39	N-Acetyl-D-glucosamine ABC transport system, permease protein 1
SCE1572_1171	Maltose/maltodextrin ABC transporter, permease protein MalG	uni	sce_5646	40.07	Maltose/maltodextrin ABC transporter, permease protein MalG
SCE1572_1172	hypothetical protein	uni	sce_5999	35.29	FIG01088071: hypothetical protein
SCE1572_1173	probable transcriptional regulator	uni	sce_196	40.4	Transcriptional regulator, LysR family
SCE1572_1174	hypothetical protein	-		0	
SCE1572_1175	Conserved domain protein	bi	sce_5251	77.84	hypothetical protein
SCE1572_1176	hypothetical protein	bi	sce_2435	72.61	Uncharacterized protein MJ1396
SCE1572_1177	hypothetical protein	bi	sce_860	78.32	hypothetical protein
SCE1572_1178	hypothetical protein	bi	sce_2432	82.57	hypothetical protein
SCE1572_1179	hypothetical protein	bi	sce_2431	82.57	Outer membrane protein
SCE1572_1180	RNA polymerase sigma factor RpoE	bi	sce_2430	85.53	RNA polymerase sigma factor RpoE
SCE1572_1181	Transcriptional regulator, TetR family	bi	sce_5268	79.08	transcriptional regulator, TetR family
SCE1572_1182	hypothetical protein	-		0	
SCE1572_1183	RsbR, positive regulator of sigma-B	uni	sce_10290	46.46	Sensor protein
SCE1572_1184	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins	uni	sce_5085	68.21	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins
SCE1572_1185	hypothetical protein	bi	sce_2391	79.03	hypothetical protein
SCE1572_1186	Transcriptional regulator, LysR family	bi	sce_862	95	Transcriptional regulator, LysR family
SCE1572_1187	putative membrane protein	bi	sce_863	88.57	putative membrane protein
SCE1572_1188	hypothetical protein	bi	sce_9528	76.63	hypothetical protein
SCE1572_1189	RsbR, positive regulator of sigma-B	bi	sce_202	69.6	RsbR, positive regulator of sigma-B
SCE1572_1190	Alpha-glucuronidase (EC 3.2.1.139)	bi	sce_1118	84.28	Alpha-glucuronidase (EC 3.2.1.139)
SCE1572_1191	hypothetical protein	-		0	
SCE1572_1192	Hydroxylamine reductase (EC 1.7.-.-)	bi	sce_866	91.49	Hydroxylamine reductase (EC 1.7.-.-)
SCE1572_1193	FG-GAP repeat protein	bi	sce_867	73.77	Hemolysin-type calcium-binding region
SCE1572_1194	FIG01086900: hypothetical protein	uni	sce_7579	62.72	FIG01086900: hypothetical protein
SCE1572_1195	hypothetical protein	-		0	
SCE1572_1196	Transcriptional regulator, TetR family	uni	sce_5339	33.54	putative transcriptional regulator, TetR family
SCE1572_1197	Signal transduction histidine kinase CheA (EC 2.7.3.-)	uni	sce_6094	73.13	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_1198	FIG01087706: hypothetical protein	uni	sce_868	74.7	FIG01087706: hypothetical protein
SCE1572_1199	hypothetical protein	uni	sce_8766	72.5	hypothetical protein
SCE1572_1200	MSHA biogenesis protein MshL	bi	sce_6199	70.82	MSHA biogenesis protein MshL
SCE1572_1201	PE_PGRS family protein	uni	sce_1120	51.56	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_1202	FIG01084975: hypothetical protein	bi	sce_869	72.14	FIG01084975: hypothetical protein
SCE1572_1203	Flagellar motor rotation protein MotB	bi	sce_870	73.15	Flagellar motor rotation protein MotB
SCE1572_1204	hypothetical protein	bi	sce_6397	39.19	TPR domain protein, putative component of TonB system
SCE1572_1205	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_3523	35.27	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_1206	Chemotaxis response regulator protein-glutamate methylesterase of group 2 operon (EC 3.1.1.61)	uni	sce_9080	30.28	Two-component response regulator
SCE1572_1207	Signal transduction histidine kinase CheA (EC 2.7.3.-)	bi	sce_871	83.92	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_1208	FIG01085293: hypothetical protein	bi	sce_872	90.53	FIG01085293: hypothetical protein
SCE1572_1209	FIG01084954: hypothetical protein	bi	sce_873	84.21	FIG01084954: hypothetical protein
SCE1572_1210	hypothetical protein	-		0	
SCE1572_1211	PatA subfamily	bi	sce_874	89.08	hypothetical protein
SCE1572_1212	hypothetical protein	bi	sce_875	75.46	hypothetical protein
SCE1572_1213	hypothetical protein	-		0	
SCE1572_1214	protein of unknown function DUF417	-		0	
SCE1572_1215	RNA polymerase sigma factor, sigma-70 family protein	uni	sce_9699	30.87	RNA polymerase sigma factor RpoE
SCE1572_1216	FIG01087191: hypothetical protein	bi	sce_2569	87.01	FIG01087191: hypothetical protein
SCE1572_1217	hypothetical protein	bi	sce_9399	81.48	FIG01086053: hypothetical protein
SCE1572_1218	nuclear antigen EBNA1	uni	sce_5536	53.42	hypothetical protein
SCE1572_1219	tRNA (guanine46-N7-)-methyltransferase (EC 2.1.1.33)	bi	sce_879	90.75	tRNA (guanine46-N7-)-methyltransferase (EC 2.1.1.33)
SCE1572_1220	hypothetical protein	-		0	
SCE1572_1221	Chitinase (EC 3.2.1.14)	-		0	
SCE1572_1222	Collagen triple helix repeat	bi	sce_881	78.67	Collagen triple helix repeat
SCE1572_1223	hypothetical protein	uni	sce_4424	38.71	hypothetical protein
SCE1572_1224	Beta-lactamase class C and other penicillin binding proteins	uni	sce_5987	34.58	Beta-lactamase (EC 3.5.2.6)
SCE1572_1225	Transcriptional regulator, TetR family	uni	sce_9844	51.92	Transcriptional regulator, TetR family
SCE1572_1226	protein of unknown function DUF6, transmembrane	bi	sce_10032	28.47	FIG01289198: hypothetical protein
SCE1572_1227	RsbR, positive regulator of sigma-B	uni	sce_3085	50.22	putative PAS/PAC sensor protein
SCE1572_1228	Multi-sensor Hybrid Histidine Kinase	uni	sce_7643	56.32	Sensor protein
SCE1572_1229	Serine/Threonine protein kinase and Signal Transduction Histidine Kinase(EC:2.7.1.112)	uni	sce_7643	34.83	Sensor protein
SCE1572_1230	High-affnity carbon uptake protein Hat/HatR	uni	sce_4062	44.79	High-affnity carbon uptake protein Hat/HatR
SCE1572_1231	PROBABLE CHOLESTEROL OXIDASE CHOD (CHOLESTEROL-O2 OXIDOREDUCTASE) (EC 1.1.3.6)	bi	sce_885	92.44	PROBABLE CHOLESTEROL OXIDASE CHOD (CHOLESTEROL-O2 OXIDOREDUCTASE) (EC 1.1.3.6)
SCE1572_1232	hypothetical protein	-		0	
SCE1572_1233	FIG01086049: hypothetical protein	bi	sce_895	90	FIG01086049: hypothetical protein
SCE1572_1234	Cellulose-binding domain protein	bi	sce_896	84.67	Cellulose-binding domain protein
SCE1572_1235	hypothetical protein	-		0	
SCE1572_1236	Sheath polysaccharide-degrading enzyme precursor	bi	sce_898	81.8	Sheath polysaccharide-degrading enzyme precursor
SCE1572_1237	hypothetical protein	uni	sce_3278	40.62	hypothetical abductin-like protein
SCE1572_1238	Phosphate regulon transcriptional regulatory protein PhoB (SphR)	uni	sce_2722	49.13	Response regulator receiver:Transcriptional regulatory protein, C- terminal precursor
SCE1572_1239	periplasmic sensor signal transduction histidine kinase	uni	sce_578	41.95	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)
SCE1572_1240	predicted protein	-		0	
SCE1572_1241	Ribokinase (EC 2.7.1.15)	uni	sce_9859	32.14	Fructokinase (EC 2.7.1.4)
SCE1572_1242	FIG01086124: hypothetical protein	bi	sce_900	76.75	FIG01086124: hypothetical protein
SCE1572_1243	FMN-dependent NADH-azoreductase	bi	sce_9368	29.63	FMN-dependent NADH-azoreductase
SCE1572_1244	hypothetical protein	-		0	
SCE1572_1245	Glycine cleavage system transcriptional activator GcvA	bi	sce_5041	37.21	Glycine cleavage system transcriptional activator GcvA
SCE1572_1246	hypothetical protein	-		0	
SCE1572_1247	hypothetical protein	uni	sce_4377	25.88	FIG00706509: hypothetical protein
SCE1572_1248	FIG01088524: hypothetical protein	bi	sce_901	81.66	FIG01088524: hypothetical protein
SCE1572_1249	TonB-dependent receptor, plug	uni	sce_1403	62	Cell division protein FtsZ (EC 3.4.24.-)
SCE1572_1250	hypothetical protein	bi	sce_1317	36.3	ABC-type phosphate transport system, periplasmic component
SCE1572_1251	ADAM 28 precursor (EC 3.4.24.-)	uni	sce_1142	47.11	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_1252	Signal transduction histidine kinase CheA (EC 2.7.3.-)	bi	sce_902	82.63	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_1253	hypothetical protein	bi	sce_903	88.2	hypothetical protein
SCE1572_1254	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY	bi	sce_904	90.4	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY
SCE1572_1255	serine/threonine protein kinase	uni	sce_5835	46.32	putative PAS/PAC sensor protein
SCE1572_1256	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_841	34.74	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_1257	probable glycolate oxidase FAD-linked subunit	bi	sce_846	91.11	FAD-binding oxidoreductase
SCE1572_1258	Bll4390 protein	bi	sce_1687	86.29	Bll4390 protein
SCE1572_1259	hypothetical protein	bi	sce_1688	92.05	hypothetical protein
SCE1572_1260	Glycogen debranching enzyme	bi	sce_1689	94.71	Glycogen debranching enzyme
SCE1572_1261	putative aldo/keto reductase	bi	sce_1690	92.21	putative aldo/keto reductase
SCE1572_1262	Mobile element protein	bi	sce_10368	66.46	Mobile element protein
SCE1572_1263	FIG01086369: hypothetical protein	bi	sce_909	79.84	FIG01086369: hypothetical protein
SCE1572_1264	hypothetical protein	-		0	
SCE1572_1265	hypothetical protein	bi	sce_910	83.96	hypothetical protein
SCE1572_1266	hypothetical protein	bi	sce_911	75.47	hypothetical protein
SCE1572_1267	Transglutaminase-like domain	uni	sce_914	65.31	Transglutaminase-like domain
SCE1572_1268	Metallo-beta-lactamase superfamily protein	bi	sce_916	77.28	Metallo-beta-lactamase superfamily protein
SCE1572_1269	Mlr6493 protein	bi	sce_917	84.95	Mlr6493 protein
SCE1572_1270	RsbR, positive regulator of sigma-B	bi	sce_1557	79.05	RsbR, positive regulator of sigma-B
SCE1572_1271	Xylose ABC transporter, substrate-binding component	bi	sce_1556	81.11	Xylose ABC transporter, substrate-binding component
SCE1572_1272	conserved hypothetical protein; putative PE_PGRS motifs	bi	sce_1553	62.16	conserved hypothetical protein, PE_PGRS
SCE1572_1273	Outer membrane vitamin B12 receptor BtuB	bi	sce_1552	81.83	Outer membrane vitamin B12 receptor BtuB
SCE1572_1274	hypothetical protein	bi	sce_1551	83.25	hypothetical protein
SCE1572_1275	Hypothetical protein	bi	sce_1550	89.63	Hypothetical protein
SCE1572_1276	Chemotaxis protein cheA (EC 2.7.3.-)	bi	sce_1549	83.36	Chemotaxis protein cheA (EC 2.7.3.-)
SCE1572_1277	hypothetical protein	-		0	
SCE1572_1278	hypothetical protein	bi	sce_7038	72.13	hypothetical protein
SCE1572_1279	hypothetical protein	uni	sce_3770	43.35	sugar ABC transporter, periplasmic sugar-binding protein
SCE1572_1280	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)	uni	sce_1493	62.67	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)
SCE1572_1281	Response regulator receiver:ATP-binding region, ATPase-like:Histidine kinase A, N-terminal	bi	sce_919	79.68	Response regulator receiver:ATP-binding region, ATPase-like:Histidine kinase A, N-terminal
SCE1572_1282	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_3759	38.27	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_1283	hypothetical protein	-		0	
SCE1572_1284	Enoyl-[acyl-carrier-protein] reductase [FMN] (EC 1.3.1.9), inferred for PFA pathway	bi	sce_920	93.53	Enoyl-[acyl-carrier-protein] reductase [FMN] (EC 1.3.1.9), inferred for PFA pathway
SCE1572_1285	omega-3 polyunsaturated fatty acid synthase subunit, PfaA	bi	sce_921	68.49	omega-3 polyunsaturated fatty acid synthase subunit, PfaA
SCE1572_1286	omega-3 polyunsaturated fatty acid synthase subunit, PfaC	bi	sce_922	81.53	omega-3 polyunsaturated fatty acid synthase subunit, PfaC
SCE1572_1287	hypothetical protein	bi	sce_923	78.6	hypothetical protein
SCE1572_1288	Gll1489 protein	bi	sce_924	66.04	Gll1489 protein
SCE1572_1289	hypothetical protein	-		0	
SCE1572_1290	FIG01085670: hypothetical protein	bi	sce_925	85.47	FIG01085670: hypothetical protein
SCE1572_1291	FIG01088460: hypothetical protein	bi	sce_926	71.92	hypothetical protein
SCE1572_1292	hypothetical protein	bi	sce_927	80.74	LOC432261 protein
SCE1572_1293	FIG01087208: hypothetical protein	bi	sce_928	80.65	FIG01087208: hypothetical protein
SCE1572_1294	serine/threonine protein kinase with TPR repeats	bi	sce_929	76.2	serine/threonine protein kinase
SCE1572_1295	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_930	82.84	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_1296	hypothetical protein	uni	sce_930	68.33	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_1297	hypothetical protein	bi	sce_931	88.44	hypothetical protein
SCE1572_1298	hypothetical protein	bi	sce_932	94.52	hypothetical protein
SCE1572_1299	FIG01085618: hypothetical protein	bi	sce_933	92.01	FIG01085618: hypothetical protein
SCE1572_1300	FIG01086321: hypothetical protein	bi	sce_934	77.17	FIG01086321: hypothetical protein
SCE1572_1301	hypothetical protein	bi	sce_936	87.53	hypothetical protein
SCE1572_1302	Thymidylate kinase (EC 2.7.4.9)	bi	sce_937	83.76	Thymidylate kinase (EC 2.7.4.9)
SCE1572_1303	Pantoate--beta-alanine ligase (EC 6.3.2.1)	bi	sce_938	89.01	Pantoate--beta-alanine ligase (EC 6.3.2.1)
SCE1572_1304	Polyphosphate kinase (EC 2.7.4.1)	bi	sce_939	94.3	Polyphosphate kinase (EC 2.7.4.1)
SCE1572_1305	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_940	78.32	VgrG protein
SCE1572_1306	SSU ribosomal protein S12p (S23e)	bi	sce_942	100	SSU ribosomal protein S12p (S23e)
SCE1572_1307	SSU ribosomal protein S7p (S5e)	bi	sce_943	100	SSU ribosomal protein S7p (S5e)
SCE1572_1308	Translation elongation factor G	bi	sce_944	97.02	Translation elongation factor G
SCE1572_1309	Translation elongation factor Tu	bi	sce_457	98.99	Translation elongation factor Tu

SCE1572_1310	SSU ribosomal protein S10p (S20e)	bi	sce_946	100	SSU ribosomal protein S10p (S20e)
SCE1572_1311	LSU ribosomal protein L4p (L1e)	bi	sce_947	97.58	LSU ribosomal protein L4p (L1e)
SCE1572_1312	LSU ribosomal protein L23p (L23Ae)	bi	sce_948	97.96	LSU ribosomal protein L23p (L23Ae)
SCE1572_1313	LSU ribosomal protein L2p (L8e)	bi	sce_949	98.55	LSU ribosomal protein L2p (L8e)
SCE1572_1314	SSU ribosomal protein S19p (S15e)	bi	sce_950	98.99	SSU ribosomal protein S19p (S15e)
SCE1572_1315	FIG01086337: hypothetical protein	bi	sce_951	81.03	FIG01086337: hypothetical protein
SCE1572_1316	Serine/threonine-protein kinase (EC 2.7.1.-)	bi	sce_952	72.7	serine/threonine protein kinase
SCE1572_1317	hypothetical protein	uni	sce_3858	31.65	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_1318	FIG01089061: hypothetical protein	bi	sce_953	79.23	FIG01089061: hypothetical protein
SCE1572_1319	Protein kinase	bi	sce_954	76.02	Ribonuclease E (EC 3.1.26.12)
SCE1572_1320	hypothetical protein	bi	sce_956	81.56	hypothetical protein
SCE1572_1321	oxidoreductase, short-chain dehydrogenase/reductase family	bi	sce_957	92.11	oxidoreductase, short-chain dehydrogenase/reductase family
SCE1572_1322	Serine/threonine protein kinase	uni	sce_9757	42.41	Serine/threonine protein kinase
SCE1572_1323	Autotransporter adhesin	bi	sce_959	80.61	Autotransporter adhesin
SCE1572_1324	Skin secretory protein xP2 precursor (Protein APEG)	bi	sce_960	93.57	Skin secretory protein xP2 precursor (Protein APEG)
SCE1572_1325	hypothetical protein	uni	sce_710	38.1	hypothetical protein
SCE1572_1326	hypothetical protein	-		0	
SCE1572_1327	hypothetical protein	-		0	
SCE1572_1328	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	uni	sce_4001	52.45	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_1329	hypothetical protein	bi	sce_717	67.39	hypothetical protein
SCE1572_1330	FIG01085829: hypothetical protein	uni	sce_711	68.52	FIG01085829: hypothetical protein
SCE1572_1331	hypothetical protein	uni	sce_1796	38.63	hypothetical protein
SCE1572_1332	hypothetical protein	uni	sce_705	31.2	FIG01089428: hypothetical protein
SCE1572_1333	hypothetical protein	uni	sce_1832	41.1	hypothetical protein
SCE1572_1334	hypothetical protein	uni	sce_9337	30.53	hypothetical protein
SCE1572_1335	hypothetical protein	uni	sce_1486	39.58	VgrG protein
SCE1572_1336	FIG01086577: hypothetical protein	uni	sce_2302	70.73	hypothetical protein
SCE1572_1337	serine/threonine protein kinase	bi	sce_961	93.63	serine/threonine-protein kinase
SCE1572_1338	hypothetical protein	bi	sce_962	86.73	heat shock protein DnaJ domain protein
SCE1572_1339	Carboxyl-terminal protease (EC 3.4.21.-)	bi	sce_963	90.75	Carboxyl-terminal protease (EC 3.4.21.-)
SCE1572_1340	LiPid Depleted	bi	sce_9445	42.96	hypothetical protein
SCE1572_1341	RNA polymerase sigma factor RpoH	bi	sce_965	95.27	RNA polymerase sigma factor RpoH
SCE1572_1342	FIG01087452: hypothetical protein	bi	sce_967	99.64	FIG01087452: hypothetical protein
SCE1572_1343	conserved hypothetical protein	bi	sce_968	85.87	FIG01087584: hypothetical protein
SCE1572_1344	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)	bi	sce_969	85.98	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)
SCE1572_1345	Glycosyl transferase, group 2 family protein	bi	sce_970	94.39	Glycosyl transferase, group 2 family protein
SCE1572_1346	Membrane Protein Functionally coupled to the MukBEF Chromosome Partitioning Mechanism	bi	sce_971	80.63	Membrane Protein Functionally coupled to the MukBEF Chromosome Partitioning Mechanism
SCE1572_1347	cytochrome c family protein	bi	sce_972	74.07	cytochrome c family protein
SCE1572_1348	hypothetical protein	bi	sce_973	79.2	hypothetical protein
SCE1572_1349	hypothetical protein	bi	sce_1433	52.27	FIG01087100: hypothetical protein
SCE1572_1350	FIG01087958: hypothetical protein	bi	sce_974	81.94	FIG01087958: hypothetical protein
SCE1572_1351	FIG00964846: hypothetical protein	bi	sce_975	93.88	FIG00964846: hypothetical protein
SCE1572_1352	hypothetical protein	bi	sce_976	89.65	hypothetical protein
SCE1572_1353	FIG01086412: hypothetical protein	bi	sce_978	92.33	FIG01086412: hypothetical protein
SCE1572_1354	hypothetical protein	bi	sce_979	82.39	hypothetical protein
SCE1572_1355	3-dehydroquinate synthase (EC 4.2.3.4)	bi	sce_980	90.64	3-dehydroquinate synthase (EC 4.2.3.4)
SCE1572_1356	polysaccharide export protein	bi	sce_981	94.5	polysaccharide export protein
SCE1572_1357	polysaccharide biosynthesis protein	bi	sce_982	90.67	polysaccharide biosynthesis protein
SCE1572_1358	UDP-glucose dehydrogenase (EC 1.1.1.22)	bi	sce_984	93.69	UDP-glucose dehydrogenase (EC 1.1.1.22)
SCE1572_1359	Serine phosphatase RsbU, regulator of sigma subunit	bi	sce_985	98.61	Serine phosphatase RsbU, regulator of sigma subunit
SCE1572_1360	FIG01086903: hypothetical protein	bi	sce_986	81.62	FIG01086903: hypothetical protein
SCE1572_1361	Tyrosine-protein kinase EpsD (EC 2.7.10.2)	bi	sce_987	80.9	Tyrosine-protein kinase EpsD (EC 2.7.10.2)
SCE1572_1362	Lipopolysaccharide biosynthesis	bi	sce_988	88.87	Chain length determinant protein, Wzz-like protein
SCE1572_1363	Anti-sigma F factor antagonist (spoIIAA-2); Anti-sigma B factor antagonist RsbV	bi	sce_989	98.84	Anti-sigma F factor antagonist (spoIIAA-2); Anti-sigma B factor antagonist RsbV
SCE1572_1364	Serine-protein kinase RsbW (EC 2.7.11.1)	bi	sce_990	96.92	Serine-protein kinase RsbW (EC 2.7.11.1)
SCE1572_1365	FIG01088236: hypothetical protein	bi	sce_991	97.53	FIG01088236: hypothetical protein
SCE1572_1366	Putative membrane protein of ExoQ family, involved in exopolysaccharide production	bi	sce_992	93.23	O-antigen polymerase family protein
SCE1572_1367	hypothetical protein	bi	sce_993	87.23	hypothetical protein
SCE1572_1368	Heparinase II protein precursor	bi	sce_994	85.63	Heparinase II protein precursor
SCE1572_1369	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_995	94.64	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_1370	Oxidoreductase-like	bi	sce_996	96.41	Oxidoreductase-like
SCE1572_1371	Glycosyl transferase, group 1	bi	sce_998	92.98	Glycosyl transferase, group 1
SCE1572_1372	FIG01086181: hypothetical protein	bi	sce_999	94.4	FIG01086181: hypothetical protein
SCE1572_1373	D-aminopeptidase(EC:3.4.11.9)	uni	sce_1000	91.98	D-alanine--D-alanine ligase (EC 6.3.2.4)
SCE1572_1374	D-alanine--D-alanine ligase (EC 6.3.2.4)	bi	sce_1000	92.04	D-alanine--D-alanine ligase (EC 6.3.2.4)
SCE1572_1375	ATP-dependent DNA helicase UvrD/PcrA	bi	sce_1002	89.56	ATP-dependent DNA helicase UvrD/PcrA
SCE1572_1376	FIG01089158: hypothetical protein	uni	sce_6082	54.52	FIG01089158: hypothetical protein
SCE1572_1377	hypothetical protein	uni	sce_5241	60.41	FIG01086664: hypothetical protein
SCE1572_1378	FIG01085364: hypothetical protein	uni	sce_8038	60.43	FIG01085364: hypothetical protein
SCE1572_1379	hypothetical protein	bi	sce_1428	62.5	hypothetical protein
SCE1572_1380	Anaerobic dimethyl sulfoxide reductase chain B (EC 1.8.99.-)	uni	sce_4696	43.74	Anaerobic dimethyl sulfoxide reductase chain B (EC 1.8.99.-)
SCE1572_1381	possible helicase	bi	sce_6188	94.51	Helicase, SNF2/RAD54 family
SCE1572_1382	hypothetical protein	uni	sce_3673	48.98	Protein of unknown function DUF11
SCE1572_1383	hypothetical protein	-		0	
SCE1572_1384	FIG01086874: hypothetical protein	bi	sce_8656	76.45	FIG01086874: hypothetical protein
SCE1572_1385	EBNA-1	bi	sce_6414	82.66	Cellulase(EC:3.2.1.4)
SCE1572_1386	hypothetical protein	-		0	
SCE1572_1387	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_9995	86.98	secreted protein
SCE1572_1388	regulator of chromosome condensation, RCC1	uni	sce_6010	33.53	Collagen triple helix repeat
SCE1572_1389	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)	bi	sce_1692	35.51	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)
SCE1572_1390	ABC-type nitrate/sulfonate/bicarbonate transport systems, periplasmic components	bi	sce_4602	86.87	ABC-type nitrate/sulfonate/bicarbonate transport systems, periplasmic components
SCE1572_1391	NADH pyrophosphatase (EC 3.6.1.22)	uni	sce_4892	44.89	NADH pyrophosphatase (EC 3.6.1.22)
SCE1572_1392	hypothetical protein	bi	sce_1004	92.31	secreted protein
SCE1572_1393	AmpG permease	bi	sce_1005	90.42	AmpG permease
SCE1572_1394	probable oxidoreductase/Short-chain dehydrogenase	bi	sce_6012	43.06	Retinol dehydrogenase 13 (EC 1.1.1.-)
SCE1572_1395	FIG01085227: hypothetical protein	bi	sce_1006	82.58	FIG01085227: hypothetical protein
SCE1572_1396	putative N-acetylmuramoyl-L-alanine amidase	bi	sce_1007	90.44	putative N-acetylmuramoyl-L-alanine amidase
SCE1572_1397	hypothetical protein	bi	sce_1333	45.12	FIG01085833: hypothetical protein
SCE1572_1398	hypothetical protein	bi	sce_1331	31.85	hypothetical protein
SCE1572_1399	hypothetical protein	bi	sce_1330	45.98	hypothetical protein
SCE1572_1400	hypothetical protein	bi	sce_1341	83.42	hypothetical protein
SCE1572_1401	FIG01089095: hypothetical protein	bi	sce_1340	71.95	FIG01089095: hypothetical protein
SCE1572_1402	hypothetical protein	uni	sce_7383	33.15	Cell surface protein
SCE1572_1403	hypothetical protein	uni	sce_3673	56.41	Protein of unknown function DUF11
SCE1572_1404	hypothetical protein	uni	sce_1677	27.75	PE-PGRS FAMILY PROTEIN
SCE1572_1405	FOG: HEAT repeat	bi	sce_1339	87.74	FOG: HEAT repeat
SCE1572_1406	VgrG protein	bi	sce_1338	88.33	VgrG protein
SCE1572_1407	Mlr2351 protein	bi	sce_1337	91.2	hypothetical protein
SCE1572_1408	FIG01087519: hypothetical protein	bi	sce_1336	81.25	FIG01087519: hypothetical protein
SCE1572_1409	hypothetical protein	bi	sce_1335	80.45	hypothetical protein
SCE1572_1410	hypothetical protein	bi	sce_1334	84.77	hypothetical protein
SCE1572_1411	ATP-dependent protease La (EC 3.4.21.53) Type I	bi	sce_1008	94.15	ATP-dependent protease La (EC 3.4.21.53) Type I
SCE1572_1412	Lysophospholipase (EC 3.1.1.5); Monoglyceride lipase (EC 3.1.1.23); putative	bi	sce_1009	83.18	Lysophospholipase (EC 3.1.1.5); Monoglyceride lipase (EC 3.1.1.23); putative
SCE1572_1413	Fibronectin/fibrinogen-binding protein	bi	sce_1010	93.6	fibronectin-binding protein homolog
SCE1572_1414	hypothetical protein	bi	sce_1011	62.69	hypothetical protein
SCE1572_1415	hypothetical protein	uni	sce_5240	32.65	hypothetical protein
SCE1572_1416	Similarity	uni	sce_5962	64.89	Similarity
SCE1572_1417	Aha1 domain protein	bi	sce_4679	47.71	Aha1 domain protein
SCE1572_1418	Transcriptional regulator, ArsR family	bi	sce_4680	67.92	Transcriptional regulator, ArsR family
SCE1572_1419	hypothetical protein	-		0	
SCE1572_1420	Response regulator of zinc sigma-54-dependent two-component system	uni	sce_9770	52.75	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_1421	protein kinase domain	uni	sce_7729	42.29	eukaryotic-type protein kinase
SCE1572_1422	serine/threonine protein kinase	uni	sce_10233	45.58	protein kinase domain
SCE1572_1423	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_1015	91.43	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_1424	Uncharacterized PE-PGRS family protein PE_PGRS3 precursor	bi	sce_3601	80.12	Uncharacterized PE-PGRS family protein PE_PGRS3 precursor
SCE1572_1425	Cytochrome c551 peroxidase (EC 1.11.1.5)	bi	sce_3600	88.22	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_1426	Peroxiredoxin family protein/glutaredoxin	bi	sce_1017	90	Peroxiredoxin family protein/glutaredoxin
SCE1572_1427	hypothetical protein	-		0	
SCE1572_1428	Methylated-DNA--protein-cysteine methyltransferase (EC 2.1.1.63)	bi	sce_1018	80.65	methylated-DNA--protein-cysteine methyltransferase
SCE1572_1429	L-rhamnose operon transcriptional activator RhaR	bi	sce_1019	82.14	L-rhamnose operon transcriptional activator RhaR
SCE1572_1430	predicted nucleotidyltransferase	bi	sce_1022	91.1	predicted nucleotidyltransferase
SCE1572_1431	hypothetical protein	bi	sce_1023	77.04	hypothetical protein
SCE1572_1432	tRNA nucleotidyltransferase (EC 2.7.7.21) (EC 2.7.7.25)	bi	sce_1024	90.12	tRNA nucleotidyltransferase (EC 2.7.7.21) (EC 2.7.7.25)
SCE1572_1433	hypothetical protein	-		0	
SCE1572_1434	Rhs family carbohydrate-binding protein	uni	sce_3970	42.47	Rhs family carbohydrate-binding protein
SCE1572_1435	hypothetical protein	bi	sce_4560	39.22	FIG01088881: hypothetical protein
SCE1572_1436	hypothetical protein	-		0	
SCE1572_1437	Endoribonuclease L-PSP	bi	sce_6320	90.37	Endoribonuclease L-PSP
SCE1572_1438	Transcriptional regulator, LysR family	bi	sce_6321	91.39	Transcriptional regulator, LysR family
SCE1572_1439	Valine--pyruvate aminotransferase (EC 2.6.1.66)	bi	sce_6322	93.4	Valine--pyruvate aminotransferase (EC 2.6.1.66)
SCE1572_1440	Inorganic pyrophosphatase (EC 3.6.1.1)	bi	sce_6323	97.36	Inorganic pyrophosphatase (EC 3.6.1.1)
SCE1572_1441	Sortilin-related receptor precursor	bi	sce_6330	79.4	Sortilin-related receptor precursor
SCE1572_1442	hypothetical protein	bi	sce_6326	85.4	hypothetical protein
SCE1572_1443	Endo-beta-1,6-galactanase	bi	sce_1084	80.7	Endo-beta-1,6-galactanase
SCE1572_1444	beta-lactamase	uni	sce_8748	30.96	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_1445	Catalase (EC 1.11.1.6)	bi	sce_2350	90.74	Catalase (EC 1.11.1.6)
SCE1572_1446	hypothetical protein	uni	sce_5793	45.61	hypothetical protein
SCE1572_1447	FIG01085592: hypothetical protein	bi	sce_6187	91.59	FIG01085592: hypothetical protein
SCE1572_1448	Transcriptional regulator, HxlR family	bi	sce_2658	57.49	Transcriptional regulator, HxlR family
SCE1572_1449	hypothetical protein	bi	sce_2659	52.75	Dihydrofolate reductase (EC 1.5.1.3)
SCE1572_1450	LysR family transcriptional regulator	bi	sce_9885	91.85	LysR family transcriptional regulator
SCE1572_1451	Quinone oxidoreductase (EC 1.6.5.5)	bi	sce_9884	91.54	Quinone oxidoreductase (EC 1.6.5.5)
SCE1572_1452	hypothetical protein	uni	sce_1036	65.12	hypothetical protein
SCE1572_1453	Mobile element protein	bi	sce_1675	96.77	ISLp1
SCE1572_1454	hypothetical protein	uni	sce_3190	50.79	large tegument protein
SCE1572_1455	Integrase Int	bi	sce_7521	86.71	FIG01087954: hypothetical protein
SCE1572_1456	hypothetical protein	uni	sce_6807	87.37	hypothetical protein
SCE1572_1457	hypothetical protein	uni	sce_6807	81.65	hypothetical protein
SCE1572_1458	hypothetical protein	-		0	
SCE1572_1459	FIG01085109: hypothetical protein	uni	sce_8592	82.94	FIG01085109: hypothetical protein
SCE1572_1460	hypothetical protein	-		0	
SCE1572_1461	PE-PGRS FAMILY PROTEIN	uni	sce_6815	67.74	PE-PGRS FAMILY PROTEIN
SCE1572_1462	hypothetical protein	-		0	
SCE1572_1463	FIG01089478: hypothetical protein	bi	sce_9794	70.43	FIG01089478: hypothetical protein
SCE1572_1464	RNA polymerase sigma factor SigW	bi	sce_9902	76.06	RNA polymerase sigma factor SigW
SCE1572_1465	hypothetical protein	bi	sce_10361	74.5	hypothetical protein
SCE1572_1466	hypothetical protein	-		0	
SCE1572_1467	Bacteriophage protein gp37	-		0	
SCE1572_1468	hypothetical protein	-		0	
SCE1572_1469	Putative bacterial haemoglobin	uni	sce_5698	46.74	Putative bacterial haemoglobin
SCE1572_1470	nitrogen metabolism transcriptional regulator, NtrC, Fis Family	uni	sce_9871	38.64	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_1471	hypothetical protein	-		0	
SCE1572_1472	hypothetical protein	-		0	
SCE1572_1473	hypothetical protein	-		0	

SCE1572_1474	hypothetical protein	-		0	
SCE1572_1475	POSSIBLE TRANSPOSASE	uni	sce_2392	84.62	hypothetical protein
SCE1572_1476	similar to O-linked GlcNAc transferase	-		0	
SCE1572_1477	hypothetical protein	-		0	
SCE1572_1478	glycosyl transferase	uni	sce_7824	32.2	glycosyltransferase
SCE1572_1479	expressed protein	uni	sce_7489	29.69	dTDP-glucose 4,6-dehydratase (EC 4.2.1.46)
SCE1572_1480	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins	-		0	
SCE1572_1481	predicted nucleoside-diphosphate-sugar epimerase	uni	sce_10011	30.35	Oxidoreductase
SCE1572_1482	hypothetical protein	-		0	
SCE1572_1483	Probable poly(beta-D-mannuronate) O-acetylase (EC 2.3.1.-)	uni	sce_9390	38.07	Probable poly(beta-D-mannuronate) O-acetylase (EC 2.3.1.-)
SCE1572_1484	hypothetical protein	bi	sce_4697	45.83	PASTA domain containing protein
SCE1572_1485	hypothetical protein	-		0	
SCE1572_1486	hypothetical protein	-		0	
SCE1572_1487	hypothetical protein	-		0	
SCE1572_1488	hypothetical protein	uni	sce_8653	80.43	hypothetical protein
SCE1572_1489	Mobile element protein	bi	sce_7680	31.98	POSSIBLE TRANSPOSASE
SCE1572_1490	transposase	-		0	
SCE1572_1491	hypothetical protein	-		0	
SCE1572_1492	Tat (Twin-arginine translocation) pathway signal sequence domain protein	uni	sce_7318	87.25	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_1493	hypothetical protein	-		0	
SCE1572_1494	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases	uni	sce_2498	74.79	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases
SCE1572_1495	hypothetical protein	-		0	
SCE1572_1496	alkylhydroperoxidase like protein, AhpD family	bi	sce_8802	98.21	alkylhydroperoxidase like protein, AhpD family
SCE1572_1497	Transcriptional regulator, ArsR family	bi	sce_8801	94.23	FIG016027: protein of unknown function YeaO
SCE1572_1498	Probable glutathione S-transferase-related transmembrane protein (EC 2.5.1.18)	uni	sce_9878	96.18	hypothetical protein
SCE1572_1499	hypothetical protein	-		0	
SCE1572_1500	Probable transcriptional regulator lrhA	uni	sce_1329	35.71	Transcriptional regulator, LysR family
SCE1572_1501	hypothetical protein	-		0	
SCE1572_1502	RsbR, positive regulator of sigma-B	uni	sce_5782	56.83	RsbR, positive regulator of sigma-B
SCE1572_1503	Lignostilbene-alpha,beta-dioxygenase and related enzymes	-		0	
SCE1572_1504	NADP-specific glutamate dehydrogenase (EC 1.4.1.4)	bi	sce_10169	96.35	NADP-specific glutamate dehydrogenase (EC 1.4.1.4)
SCE1572_1505	hypothetical protein	-		0	
SCE1572_1506	hypothetical protein	-		0	
SCE1572_1507	hypothetical protein	-		0	
SCE1572_1508	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_7495	85.57	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_1509	Serine protease inhibitor precursor	uni	sce_4594	67.28	Serine protease inhibitor precursor
SCE1572_1510	Probable oxidoreductase	uni	sce_6012	30.28	Retinol dehydrogenase 13 (EC 1.1.1.-)
SCE1572_1511	FIG01085393: hypothetical protein	bi	sce_7061	76.8	FIG01085393: hypothetical protein
SCE1572_1512	Transcriptional regulator, AraC family	bi	sce_9866	83.6	Transcriptional regulator, AraC family
SCE1572_1513	hypothetical protein	uni	sce_9865	38.57	Transcriptional regulator, AraC family
SCE1572_1514	haloacid dehalogenase, type II(EC:3.8.1.2)	bi	sce_1037	83.46	haloacid dehalogenase, type II(EC:3.8.1.2)
SCE1572_1515	hypothetical protein	bi	sce_1039	48	hypothetical protein
SCE1572_1516	GTP-binding protein TypA/BipA	bi	sce_1040	97.06	GTP-binding protein TypA/BipA
SCE1572_1517	hypothetical protein	-		0	
SCE1572_1518	Outer membrane receptor proteins, mostly Fe transport	bi	sce_1041	81.13	Outer membrane receptor proteins, mostly Fe transport
SCE1572_1519	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)	uni	sce_9268	28.42	hypothetical protein
SCE1572_1520	hypothetical protein	-		0	
SCE1572_1521	hypothetical protein	bi	sce_1044	77.78	hypothetical protein
SCE1572_1522	Transcriptional regulator, MerR family	uni	sce_9675	37.5	MerR family transcriptional regulatory protein
SCE1572_1523	COG4251: Bacteriophytochrome (light-regulated signal transduction histidine kinase)	bi	sce_1045	86.9	hypothetical protein
SCE1572_1524	hypothetical protein	-		0	
SCE1572_1525	serine/threonine protein kinase	bi	sce_1047	98.9	serine/threonine protein kinase
SCE1572_1526	Pyrophosphate-energized proton pump (EC 3.6.1.1)	bi	sce_1048	94.09	Pyrophosphate-energized proton pump (EC 3.6.1.1)
SCE1572_1527	hypothetical protein	bi	sce_1049	80.33	hypothetical protein
SCE1572_1528	Phosphatase	bi	sce_1051	81.53	Phosphatase
SCE1572_1529	Uncharacterized lipoprotein aq_1262 precursor	bi	sce_1052	90.31	Uncharacterized lipoprotein aq_1262 precursor
SCE1572_1530	hypothetical protein	-		0	
SCE1572_1531	MATE efflux family protein	uni	sce_4895	26.85	MATE efflux family protein
SCE1572_1532	Aspartate 1-decarboxylase (EC 4.1.1.11)	bi	sce_1053	95.16	Aspartate 1-decarboxylase (EC 4.1.1.11)
SCE1572_1533	FIG01086776: hypothetical protein	bi	sce_1054	67.8	FIG01086776: hypothetical protein
SCE1572_1534	At1g18480/F15H18_1	bi	sce_1056	86.46	At1g18480/F15H18_1
SCE1572_1535	FIG01088905: hypothetical protein	bi	sce_1057	94.48	FIG01088905: hypothetical protein
SCE1572_1536	FG-GAP repeat domain protein	-		0	
SCE1572_1537	Prion-like-(Q/n-rich)-domain-bearing protein protein 54	uni	sce_7801	32.38	Prion-like-(Q/n-rich)-domain-bearing protein protein 54
SCE1572_1538	Uncharacterized protein in pqqA 5'region (ORF X) (Fragment)	bi	sce_1058	89.26	peptidase M19, renal dipeptidase
SCE1572_1539	serine/threonine-protein kinase Pkn1(EC:2.7.11.1)	bi	sce_1059	81.08	serine/threonine protein kinase
SCE1572_1540	Soluble lytic murein transglycosylase precursor (EC 3.2.1.-)	bi	sce_1060	88.48	Soluble lytic murein transglycosylase precursor (EC 3.2.1.-)
SCE1572_1541	hypothetical protein	-		0	
SCE1572_1542	hypothetical protein	uni	sce_9062	46.27	Hypothetical protein
SCE1572_1543	hypothetical protein	bi	sce_1061	54.96	FIG01089630: hypothetical protein
SCE1572_1544	hypothetical protein	bi	sce_1063	91.56	hypothetical protein
SCE1572_1545	hypothetical protein	bi	sce_1065	93.31	sulfatase
SCE1572_1546	Sulfatase (EC 3.1.6.-)	bi	sce_1066	87.2	Sulfatase
SCE1572_1547	FIG01086453: hypothetical protein	bi	sce_1071	87.57	FIG01086453: hypothetical protein
SCE1572_1548	FIG01084974: hypothetical protein	bi	sce_1074	78.32	FIG01084974: hypothetical protein
SCE1572_1549	Transcription regulator [contains diacylglycerol kinase catalytic domain]	bi	sce_1075	88.27	Transcription regulator [contains diacylglycerol kinase catalytic domain]
SCE1572_1550	hypothetical protein	bi	sce_1076	56.63	hypothetical protein
SCE1572_1551	Formiminoglutamic iminohydrolase (EC 3.5.3.13)	bi	sce_1078	93.94	Formiminoglutamic iminohydrolase (EC 3.5.3.13)
SCE1572_1552	hypothetical protein	bi	sce_9982	85.19	hypothetical protein
SCE1572_1553	hypothetical protein	bi	sce_1080	76.09	hypothetical protein
SCE1572_1554	FIG01085942: hypothetical protein	bi	sce_1081	82.27	FIG01085942: hypothetical protein
SCE1572_1555	hypothetical protein	-		0	
SCE1572_1556	FOG: WD40-like repeat	bi	sce_4904	50.23	FOG: WD40-like repeat
SCE1572_1557	hypothetical protein	-		0	
SCE1572_1558	hypothetical protein	bi	sce_1087	83.97	hypothetical protein
SCE1572_1559	Kazal-type serine protease inhibitor domain	bi	sce_1088	62.19	Kazal-type serine protease inhibitor domain
SCE1572_1560	hypotetical protein	bi	sce_1090	88.82	hypotetical protein
SCE1572_1561	COG2833: uncharacterized protein	bi	sce_1091	77.65	COG2833: uncharacterized protein
SCE1572_1562	FIG01089238: hypothetical protein	bi	sce_1092	96.33	FIG01089238: hypothetical protein
SCE1572_1563	FIG01087205: hypothetical protein	bi	sce_1094	94.92	FIG01087205: hypothetical protein
SCE1572_1564	hypothetical protein	bi	sce_1095	88.83	hypothetical protein
SCE1572_1565	hypothetical protein	uni	sce_666	31.91	hypothetical protein
SCE1572_1566	Phytoene dehydrogenase and related proteins	uni	sce_4222	39.16	Phytoene dehydrogenase and related proteins
SCE1572_1567	GIY-YIG catalytic domain protein	bi	sce_1096	87.21	COG2827: putative endonuclease containing a URI domain
SCE1572_1568	Tetratricopeptide TPR_2 repeat protein	bi	sce_1097	89.27	hypothetical protein
SCE1572_1569	Citronellol and citronellal dehydrogenase	bi	sce_1098	89.36	oxidoreductase, short-chain dehydrogenase/reductase family
SCE1572_1570	Oxidoreductase, short chain dehydrogenase/reductase family	uni	sce_3648	40.31	PUTATIVE OXIDOREDUCTASE PROTEIN
SCE1572_1571	hypothetical protein	bi	sce_1122	87.62	hypothetical protein
SCE1572_1572	hypothetical protein	bi	sce_1123	84.08	hypothetical protein
SCE1572_1573	Rhamnogalacturonides degradation protein RhiN	bi	sce_1124	83.91	Rhamnogalacturonides degradation protein RhiN
SCE1572_1574	Cell division transporter, ATP-binding protein FtsE (TC 3.A.5.1.1)	bi	sce_1125	90.94	Cell division transporter, ATP-binding protein FtsE (TC 3.A.5.1.1)
SCE1572_1575	Probable Co/Zn/Cd efflux system membrane fusion protein	bi	sce_1126	88.47	Probable Co/Zn/Cd efflux system membrane fusion protein
SCE1572_1576	Macrolide export ATP-binding/permease protein MacB (EC 3.6.3.-)	bi	sce_1127	87.01	protein of unknown function DUF214
SCE1572_1577	FIG01087495: hypothetical protein	bi	sce_1128	90.6	FIG01087495: hypothetical protein
SCE1572_1578	MFS permease	bi	sce_1131	71.94	MFS permease
SCE1572_1579	GCN5-related N-acetyltransferase	-		0	
SCE1572_1580	hypothetical protein	-		0	
SCE1572_1581	FIG00841076: hypothetical protein	bi	sce_1132	88	FIG00841076: hypothetical protein
SCE1572_1582	alpha/beta hydrolase fold	bi	sce_1133	82.13	hydrolase
SCE1572_1583	hypothetical protein	-		0	
SCE1572_1584	hypothetical protein	bi	sce_1604	92.57	hypothetical protein
SCE1572_1585	Putative phosphatase YqaB	bi	sce_7900	84	Putative phosphatase YqaB
SCE1572_1586	hypothetical protein	-		0	
SCE1572_1587	hypothetical protein	-		0	
SCE1572_1588	hypothetical protein	uni	sce_3766	57.23	hypothetical protein
SCE1572_1589	hypothetical protein	uni	sce_7501	75	hypothetical protein
SCE1572_1590	Mlr2351 protein	uni	sce_1020	45.81	Mlr2351 protein
SCE1572_1591	VgrG protein	uni	sce_118	54.6	VgrG protein
SCE1572_1592	hypothetical protein	-		0	
SCE1572_1593	hypothetical protein	-		0	
SCE1572_1594	pentapeptide repeat family protein	uni	sce_115	43.64	FIG01089519: hypothetical protein
SCE1572_1595	hypothetical protein	uni	sce_114	30.41	FIG01085979: hypothetical protein
SCE1572_1596	hypothetical protein	uni	sce_113	50	hypothetical protein
SCE1572_1597	hypothetical protein	uni	sce_116	35.03	FIG01088201: hypothetical protein
SCE1572_1598	FIG01086191: hypothetical protein	uni	sce_1675	96.08	ISLp1
SCE1572_1599	hypothetical protein	-		0	
SCE1572_1600	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases	bi	sce_8426	89	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases
SCE1572_1601	hypothetical protein	uni	sce_9602	31.33	Heavy metal RND efflux outer membrane protein, CzcC family
SCE1572_1602	Putative membrane protein with von Willebrand (VWA) domain	uni	sce_6508	35.81	hypothetical protein
SCE1572_1603	hypothetical protein	-		0	
SCE1572_1604	hypothetical protein	bi	sce_1140	64.53	FIG01085859: hypothetical protein
SCE1572_1605	Tat (twin-arginine translocation) pathway signal sequence domain protein	bi	sce_1143	85	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_1606	Cellulose-binding domain protein	bi	sce_1144	86.93	Cellulose-binding domain protein
SCE1572_1607	hypothetical protein	bi	sce_1145	76.33	FIG01086282: hypothetical protein
SCE1572_1608	hypothetical protein	bi	sce_1146	79.53	Gll0645 protein
SCE1572_1609	Glycosyl transferase, group 1 family protein	bi	sce_1148	85.08	Glycosyl transferase, group 1 family protein
SCE1572_1610	serine/threonine protein kinase	bi	sce_1149	96.02	serine/threonine protein kinase
SCE1572_1611	DNA-3-methyladenine glycosylase (EC 3.2.2.20)	-		0	
SCE1572_1612	Glycosyltransferase (EC 2.4.1.-)	bi	sce_1151	76.29	Glycosyltransferase (EC 2.4.1.-)
SCE1572_1613	hypothetical protein	-		0	
SCE1572_1614	Glycosyltransferase	bi	sce_1152	90.32	Glycosyltransferase
SCE1572_1615	exporters of the RND superfamily	bi	sce_1153	86.75	exporters of the RND superfamily
SCE1572_1616	Glycosyl transferase, group 1 family protein	bi	sce_1154	91.03	Glycosyl transferase, group 1 family protein
SCE1572_1617	TPR/glycosyl transferase domain protein	bi	sce_1155	81.4	TPR/glycosyl transferase domain protein
SCE1572_1618	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)	bi	sce_1156	95.02	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)
SCE1572_1619	Acyltransferase family protein	bi	sce_1157	85.38	Acyltransferase family protein
SCE1572_1620	FIG01088859: hypothetical protein	bi	sce_1158	87.1	FIG01088859: hypothetical protein
SCE1572_1621	hypothetical protein	bi	sce_1159	89.78	hypothetical protein
SCE1572_1622	hypothetical protein	uni	sce_631	29.73	hypothetical protein
SCE1572_1623	hypothetical protein	-		0	
SCE1572_1624	hypothetical protein	uni	sce_8407	37.74	hypothetical protein
SCE1572_1625	hypothetical protein	bi	sce_8406	39.73	hypothetical protein
SCE1572_1626	Ribonuclease HI (EC 3.1.26.4)	bi	sce_1164	90.51	Ribonuclease HI (EC 3.1.26.4)
SCE1572_1627	Isocitrate dehydrogenase [NADP] (EC 1.1.1.42); Monomeric isocitrate dehydrogenase [NADP] (EC 1.1.1.42)	bi	sce_7633	96.23	Isocitrate dehydrogenase [NADP] (EC 1.1.1.42); Monomeric isocitrate dehydrogenase [NADP] (EC 1.1.1.42)
SCE1572_1628	Survival protein SurA precursor (Peptidyl-prolyl cis-trans isomerase SurA) (EC 5.2.1.8)	bi	sce_1165	90.53	Survival protein SurA precursor (Peptidyl-prolyl cis-trans isomerase SurA) (EC 5.2.1.8)
SCE1572_1629	hypothetical protein	bi	sce_1166	83.76	hypothetical protein
SCE1572_1630	hypothetical protein	-		0	
SCE1572_1631	hypothetical protein	-		0	
SCE1572_1632	hypothetical protein	-		0	
SCE1572_1633	serine/threonine protein kinase	bi	sce_1167	86.82	serine/threonine protein kinase
SCE1572_1634	2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4.2.1)	bi	sce_1168	92.82	2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4.2.1)
SCE1572_1635	probable dioxygenase	-		0	
SCE1572_1636	FIG01085270: hypothetical protein	bi	sce_1170	94.15	FIG01085270: hypothetical protein
SCE1572_1637	hypothetical protein	bi	sce_3038	45.7	hypothetical protein

SCE1572_1638	hypothetical protein	bi	sce_4585	57.25	hypothetical protein
SCE1572_1639	hypothetical protein	uni	sce_9112	31.85	FIG01089486: hypothetical protein
SCE1572_1640	Mlr2351 protein	uni	sce_9338	32.57	hypothetical protein
SCE1572_1641	hypothetical protein	-		0	
SCE1572_1642	hypothetical protein	-		0	
SCE1572_1643	Rhs family protein	uni	sce_8347	40.88	Rhs family protein
SCE1572_1644	conserved hypothetical protein	uni	sce_9338	30.32	hypothetical protein
SCE1572_1645	VgrG protein	bi	sce_4581	59.17	VgrG protein
SCE1572_1646	hypothetical protein	-		0	
SCE1572_1647	Fimh-like protein	uni	sce_4372	70.05	Fimh-like protein
SCE1572_1648	PE-PGRS FAMILY PROTEIN	uni	sce_1215	66.86	conserved hypothetical protein
SCE1572_1649	BNR repeat domain protein	uni	sce_6171	74.9	BNR repeat domain protein
SCE1572_1650	Transposase	uni	sce_7292	48.76	FIG01086976: hypothetical protein
SCE1572_1651	hypothetical protein	bi	sce_5536	60.62	hypothetical protein
SCE1572_1652	TolA protein, putative	bi	sce_9536	42.31	extracellular protein, putative
SCE1572_1653	hypothetical protein	-		0	
SCE1572_1654	hypothetical protein	uni	sce_9684	26.77	Protease
SCE1572_1655	hypothetical protein	-		0	
SCE1572_1656	cDNA sequence BC036718	uni	sce_4892	36.7	NADH pyrophosphatase (EC 3.6.1.22)
SCE1572_1657	hypothetical protein	-		0	
SCE1572_1658	GCN5-related N-acetyltransferase	bi	sce_1173	90.45	GCN5-related N-acetyltransferase
SCE1572_1659	Uncharacterized protein RP592	bi	sce_1174	77.56	Uncharacterized protein RP592
SCE1572_1660	Malate dehydrogenase (EC 1.1.1.37)	bi	sce_1175	96.49	Malate dehydrogenase (EC 1.1.1.37)
SCE1572_1661	Phosphoribosylaminoimidazole-succinocarboxamide synthase (EC 6.3.2.6)	bi	sce_1176	95.3	Phosphoribosylaminoimidazole-succinocarboxamide synthase (EC 6.3.2.6)
SCE1572_1662	Phosphoribosylformylglycinamidine synthase, PurS subunit (EC 6.3.5.3)	-		0	
SCE1572_1663	FIG01087635: hypothetical protein	bi	sce_1177	73.17	FIG01087635: hypothetical protein
SCE1572_1664	hypothetical protein	bi	sce_1178	95.07	hypothetical protein
SCE1572_1665	hypothetical protein	bi	sce_1180	88.64	hypothetical protein
SCE1572_1666	hypothetical protein	bi	sce_1181	89.64	Membrane protein involved in colicin uptake-like protein
SCE1572_1667	hypothetical protein	bi	sce_1183	91.47	hypothetical protein
SCE1572_1668	hypothetical protein	bi	sce_1184	89.84	predicted ATPase
SCE1572_1669	FIG01087795: hypothetical protein	bi	sce_1185	84.21	FIG01087795: hypothetical protein
SCE1572_1670	Benzoyl-CoA oxygenase component B	bi	sce_1186	93.4	Benzoyl-CoA oxygenase component B
SCE1572_1671	benzoyl-CoA-dihydrodiol lyase (BoxC)	bi	sce_1187	90.61	benzoyl-CoA-dihydrodiol lyase (BoxC)
SCE1572_1672	Regulatory protein of benzoate catabolism	bi	sce_1188	88.17	Regulatory protein of benzoate catabolism
SCE1572_1673	Glycogen synthase, ADP-glucose transglucosylase (EC 2.4.1.21)	bi	sce_1189	87.96	Glycogen synthase, ADP-glucose transglucosylase (EC 2.4.1.21)
SCE1572_1674	putative lipoprotein	bi	sce_1190	84.58	putative lipoprotein
SCE1572_1675	FIG01086112: hypothetical protein	bi	sce_1191	91.08	FIG01086112: hypothetical protein
SCE1572_1676	EBNA-1	uni	sce_7119	33.82	hypothetical protein
SCE1572_1677	FIG01087540: hypothetical protein	bi	sce_1192	80.38	FIG01087540: hypothetical protein
SCE1572_1678	DNA repair protein RecN	bi	sce_1193	98.05	DNA repair protein RecN
SCE1572_1679	Thymidylate synthase thyX (EC 2.1.1.-)	bi	sce_1194	93.75	Thymidylate synthase thyX (EC 2.1.1.-)
SCE1572_1680	Methionine aminopeptidase (EC 3.4.11.18)	bi	sce_1195	95.59	Methionine aminopeptidase (EC 3.4.11.18)
SCE1572_1681	FIG01085851: hypothetical protein	bi	sce_1196	87.63	FIG01085851: hypothetical protein
SCE1572_1682	FIG01088694: hypothetical protein	bi	sce_1197	85.56	FIG01088694: hypothetical protein
SCE1572_1683	hypothetical protein	bi	sce_1198	98.84	hypothetical protein
SCE1572_1684	hypothetical protein	bi	sce_1199	93.88	hypothetical protein
SCE1572_1685	Membrane protein involved in colicin uptake-like protein	bi	sce_1200	84.35	hypothetical protein
SCE1572_1686	hypothetical protein	bi	sce_1201	72.4	Hypothetical protein
SCE1572_1687	hypothetical protein	bi	sce_1202	85.62	hypothetical protein
SCE1572_1688	hypothetical protein	bi	sce_1203	74.02	hypothetical protein
SCE1572_1689	hypothetical protein	-		0	
SCE1572_1690	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase (EC 2.7.8.5)	bi	sce_1204	92.31	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase (EC 2.7.8.5)
SCE1572_1691	Universal stress protein family	bi	sce_1205	89.58	Universal stress protein family
SCE1572_1692	hypothetical protein	bi	sce_1206	83.67	Outer membrane lipoprotein omp16 precursor
SCE1572_1693	hypothetical protein	bi	sce_1207	81.9	FIG01086986: hypothetical protein
SCE1572_1694	FIG00546957: hypothetical protein	uni	sce_6759	39.54	FIG01089529: hypothetical protein
SCE1572_1695	hypothetical protein	-		0	
SCE1572_1696	FIG01086577: hypothetical protein	bi	sce_1209	86.21	FIG01086577: hypothetical protein
SCE1572_1697	hypothetical protein	bi	sce_1210	80.28	hypothetical protein
SCE1572_1698	hypothetical protein	bi	sce_1211	86.54	hypothetical protein
SCE1572_1699	Serine/threonine protein kinase with WD40 repeats precursor	bi	sce_1212	85.9	serine/threonine protein kinase
SCE1572_1700	Iron-sulfur cluster-binding protein	bi	sce_1213	96.67	Iron-sulfur cluster-binding protein
SCE1572_1701	Ferredoxin	bi	sce_1214	93.26	Ferredoxin
SCE1572_1702	PE-PGRS FAMILY PROTEIN	bi	sce_1215	69.05	conserved hypothetical protein
SCE1572_1703	Lipoprotein releasing system transmembrane protein LolC	bi	sce_1216	83.15	Lipoprotein releasing system transmembrane protein LolC
SCE1572_1704	hypothetical protein	bi	sce_1217	53.23	hypothetical protein
SCE1572_1705	serine/threonine protein kinase	bi	sce_1218	90.19	serine/threonine protein kinase
SCE1572_1706	tRNA nucleotidyltransferase (EC 2.7.7.21) (EC 2.7.7.25)	bi	sce_1219	93.46	tRNA nucleotidyltransferase (EC 2.7.7.21) (EC 2.7.7.25)
SCE1572_1707	Similarity	bi	sce_1221	77.23	Similarity
SCE1572_1708	conserved hypothetical protein	bi	sce_1222	93.1	hypothetical protein
SCE1572_1709	Guanine deaminase (EC 3.5.4.3)	bi	sce_1223	86.52	Guanine deaminase (EC 3.5.4.3)
SCE1572_1710	FIG01088286: hypothetical protein	bi	sce_1224	75.94	FIG01088286: hypothetical protein
SCE1572_1711	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	bi	sce_1225	90.08	Butyryl-CoA dehydrogenase (EC 1.3.99.2)
SCE1572_1712	sulfatase	bi	sce_1226	82.58	Sulfatase (EC 3.1.6.-)
SCE1572_1713	FIG01086453: hypothetical protein	bi	sce_1227	89.23	FIG01086453: hypothetical protein
SCE1572_1714	response regulator receiver protein	uni	sce_9029	62.9	response regulator receiver protein
SCE1572_1715	COG1720: Uncharacterized conserved protein	uni	sce_2673	40.48	COG1720: Uncharacterized conserved protein
SCE1572_1716	hypothetical protein	-		0	
SCE1572_1717	Anthranilate phosphoribosyltransferase (EC 2.4.2.18)	bi	sce_1230	89.66	Anthranilate phosphoribosyltransferase (EC 2.4.2.18)
SCE1572_1718	Indole-3-glycerol phosphate synthase (EC 4.1.1.48) / Phosphoribosylanthranilate isomerase (EC 5.3.1.24)	bi	sce_1231	89.88	Indole-3-glycerol phosphate synthase (EC 4.1.1.48) / Phosphoribosylanthranilate isomerase (EC 5.3.1.24)
SCE1572_1719	Tryptophan synthase beta chain (EC 4.2.1.20)	bi	sce_1232	97.47	Tryptophan synthase beta chain (EC 4.2.1.20)
SCE1572_1720	Tryptophan synthase alpha chain (EC 4.2.1.20)	bi	sce_1233	92.51	Tryptophan synthase alpha chain (EC 4.2.1.20)
SCE1572_1721	hypothetical protein	uni	sce_574	39	Membrane protein involved in colicin uptake-like protein
SCE1572_1722	Outer membrane protein assembly factor YaeT precursor	bi	sce_1235	83.14	Outer membrane protein assembly factor YaeT precursor
SCE1572_1723	hypothetical protein	-		0	
SCE1572_1724	Phosphonate ABC transporter phosphate-binding periplasmic component (TC 3.A.1.9.1)	bi	sce_1236	95.85	Phosphonate ABC transporter phosphate-binding periplasmic component (TC 3.A.1.9.1)
SCE1572_1725	FIG01087640: hypothetical protein	bi	sce_1237	87.87	FIG01087640: hypothetical protein
SCE1572_1726	malto-oligosyltrehalose trehalohydrolase	uni	sce_7119	60	hypothetical protein
SCE1572_1727	ABC transporter, ATP-binding protein	bi	sce_1238	96.4	ABC transporter, ATP-binding protein
SCE1572_1728	Membrane protein implicated in protein export	bi	sce_1240	86.91	Membrane protein implicated in protein export
SCE1572_1729	hypothetical protein	-		0	
SCE1572_1730	hypothetical protein	-		0	
SCE1572_1731	RND multidrug efflux transporter; Acriflavin resistance protein	uni	sce_9222	58.93	Acriflavin resistance protein
SCE1572_1732	efflux transporter, RND family, MFP subunit	uni	sce_9221	47.83	Probable Co/Zn/Cd efflux system membrane fusion protein
SCE1572_1733	conserved domain protein	uni	sce_3810	26.29	oxidoreductase of aldo/keto reductase family, subgroup 1
SCE1572_1734	conserved hypothetical protein	-		0	
SCE1572_1735	integral membrane transport protein	uni	sce_8782	31.1	Probable transmembrane efflux transmembrane protein
SCE1572_1736	Thioredoxin reductase (EC 1.8.1.9)	uni	sce_9822	39.14	Thioredoxin reductase (EC 1.8.1.9)
SCE1572_1737	Rrf2 family transcriptional regulator, group III	uni	sce_6432	27.5	Rrf2 family transcriptional regulator, group III
SCE1572_1738	Integron integrase IntIPac	uni	sce_8712	57.78	Tyrosine recombinase XerC
SCE1572_1739	Lipoprotein releasing system transmembrane protein LolC	bi	sce_1242	96.86	Lipoprotein releasing system transmembrane protein LolC
SCE1572_1740	Lipoprotein releasing system ATP-binding protein LolD	bi	sce_1243	93.86	Lipoprotein releasing system ATP-binding protein LolD
SCE1572_1741	putative ATP-dependent protease	uni	sce_1008	29.93	ATP-dependent protease La (EC 3.4.21.53) Type I
SCE1572_1742	PglZ domain	-		0	
SCE1572_1743	hypothetical protein	uni	sce_10208	43.68	FIG01084875: hypothetical protein
SCE1572_1744	hypothetical protein	uni	sce_10207	42.01	hypothetical protein
SCE1572_1745	COG1002: Type II restriction enzyme, methylase subunits	-		0	
SCE1572_1746	Type II restriction enzyme, methylase subunits	-		0	
SCE1572_1747	ATP-dependent DNA helicase	-		0	
SCE1572_1748	hypothetical protein	-		0	
SCE1572_1749	hypothetical protein	-		0	
SCE1572_1750	hypothetical protein	-		0	
SCE1572_1751	hypothetical protein	-		0	
SCE1572_1752	FIG01086577: hypothetical protein	uni	sce_2302	74.36	hypothetical protein
SCE1572_1753	hypothetical protein	-		0	
SCE1572_1754	hypothetical protein	-		0	
SCE1572_1755	hypothetical protein	-		0	
SCE1572_1756	hypothetical protein	-		0	
SCE1572_1757	Type III restriction-modification enzyme, helicase subunit	-		0	
SCE1572_1758	Possible DNA methylase	uni	sce_2039	22.9	Type III restriction-modification system methylation subunit (EC 2.1.1.72)
SCE1572_1759	hypothetical protein	-		0	
SCE1572_1760	conserved hypothetical protein	-		0	
SCE1572_1761	Glutathione S-transferase (EC 2.5.1.18)	bi	sce_1670	85.58	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_1762	Tat (Twin-arginine translocation) pathway signal sequence domain protein	uni	sce_5158	83.52	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_1763	Cellulose-binding domain protein	uni	sce_1115	78.69	Cellulose-binding domain protein
SCE1572_1764	RNA polymerase sigma factor RpoE	uni	sce_3084	50	RNA polymerase sigma factor RpoE
SCE1572_1765	FIG01088605: hypothetical protein	uni	sce_3083	40.2	FIG01088605: hypothetical protein
SCE1572_1766	Flagellar hook-length control protein FliK	uni	sce_3078	34.2	Flagellar hook-length control protein FliK
SCE1572_1767	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_5134	56.49	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_1768	regulator of chromosome condensation, RCC1	bi	sce_5098	86.44	putative RTX family exoprotein
SCE1572_1769	Glucose 1-dehydrogenase (EC 1.1.1.47)	uni	sce_5211	39.15	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_1770	FIG01086453: hypothetical protein	uni	sce_1071	60.54	FIG01086453: hypothetical protein
SCE1572_1771	putative esterase	bi	sce_1085	92.31	probable ferric enterobactin esterase-related protein Fes
SCE1572_1772	L-arabinose-specific 1-epimerase (mutarotase)	bi	sce_1086	92.66	L-arabinose-specific 1-epimerase (mutarotase)
SCE1572_1773	hypothetical protein	-		0	
SCE1572_1774	RNA polymerase sigma factor RpoE	uni	sce_5484	83.58	RNA polymerase sigma factor RpoE
SCE1572_1775	hypothetical protein	bi	sce_5485	69.12	hypothetical protein
SCE1572_1776	hypothetical protein-transmembrane prediction	bi	sce_5486	86.96	hypothetical protein-transmembrane prediction
SCE1572_1777	FIG01087065: hypothetical protein	bi	sce_5487	94.67	FIG01087065: hypothetical protein
SCE1572_1778	Transcriptional regulator, AraC family	bi	sce_8627	79.66	Transcriptional regulator, AraC family
SCE1572_1779	O-methyltransferase (EC 2.1.1.-)	uni	sce_3613	51.06	O-methyltransferase (EC 2.1.1.-)
SCE1572_1780	Dehydrogenases with different specificities (related to short-chain alcohol dehydrogenases)	bi	sce_1565	89.63	Dehydrogenases with different specificities (related to short-chain alcohol dehydrogenases)
SCE1572_1781	Transcriptional regulator, AraC family	bi	sce_1564	89.53	Transcriptional regulator, AraC family
SCE1572_1782	Transcriptional regulator, ArsR family	bi	sce_7064	92.16	Transcriptional regulator, ArsR family
SCE1572_1783	conserved hypothetical protein	bi	sce_7065	84.14	hypothetical protein
SCE1572_1784	hypothetical membrane protein	-		0	
SCE1572_1785	Excinuclease ABC subunit A paralog of unknown function	bi	sce_7067	89.61	Excinuclease ABC subunit A paralog of unknown function
SCE1572_1786	FIG00501492: hypothetical protein	-		0	
SCE1572_1787	hypothetical protein	-		0	
SCE1572_1788	Molybdenum transport ATP-binding protein ModC (TC 3.A.1.8.1)	uni	sce_1266	75.34	Molybdenum transport ATP-binding protein ModC (TC 3.A.1.8.1)
SCE1572_1789	hypothetical protein	-		0	
SCE1572_1790	hypothetical protein	-		0	
SCE1572_1791	ABC-type antimicrobial peptide transport system, permease component	uni	sce_7523	26.01	ABC-type antimicrobial peptide transport system, permease component
SCE1572_1792	ABC transporter, ATP-binding protein, putative	uni	sce_1243	44.33	Lipoprotein releasing system ATP-binding protein LolD
SCE1572_1793	LSU ribosomal protein L33p	uni	sce_9218	85.71	LSU ribosomal protein L33p
SCE1572_1794	probable ABC transporter ATP-binding protein	uni	sce_9842	51.52	probable ABC transporter ATP-binding protein
SCE1572_1795	hypothetical protein	uni	sce_9840	38.71	hypothetical protein
SCE1572_1796	hypothetical protein	uni	sce_9840	29.83	hypothetical protein
SCE1572_1797	hypothetical protein	-		0	
SCE1572_1798	FIG01087034: hypothetical protein	uni	sce_3333	40.48	FIG01087034: hypothetical protein
SCE1572_1799	methyltransferase(EC:2.1.1.-)	uni	sce_3380	32.37	2-heptaprenyl-1,4-naphthoquinone methyltransferase (EC 2.1.1.163)
SCE1572_1800	hypothetical protein	-		0	
SCE1572_1801	hypothetical protein	-		0	

SCE1572_1802	Similar to ferrous iron transporter protein B	-		0	
SCE1572_1803	Nickel transporter UreH	uni	sce_6510	36.59	Nickel transporter UreH
SCE1572_1804	Excinuclease ABC subunit A paralog of unknown function	uni	sce_7094	59.09	Transposase
SCE1572_1805	GTP-binding protein related to HflX	bi	sce_2389	71.6	GTP-binding protein related to HflX
SCE1572_1806	Molybdenum transport ATP-binding protein ModC (TC 3.A.1.8.1)	bi	sce_1266	81.63	Molybdenum transport ATP-binding protein ModC (TC 3.A.1.8.1)
SCE1572_1807	Molybdenum transport system permease protein ModB (TC 3.A.1.8.1)	bi	sce_1267	85.98	Molybdenum transport system permease protein ModB (TC 3.A.1.8.1)
SCE1572_1808	Molybdenum ABC transporter, periplasmic molybdenum-binding protein ModA (TC 3.A.1.8.1)	bi	sce_1268	81.75	Molybdenum ABC transporter, periplasmic molybdenum-binding protein ModA (TC 3.A.1.8.1)
SCE1572_1809	Predicted molybdate-responsive regulator YvgK in bacilli	bi	sce_1269	85.05	Predicted molybdate-responsive regulator YvgK in bacilli
SCE1572_1810	putative transcriptional regulator	bi	sce_5174	90.61	putative transcriptional regulator
SCE1572_1811	DNA alkylation repair enzyme	bi	sce_5175	85.68	DNA alkylation repair enzyme
SCE1572_1812	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-)	bi	sce_1270	66.88	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-)
SCE1572_1813	Ribosomal-protein-L7p-serine acetyltransferase	bi	sce_1271	84.75	Ribosomal-protein-L7p-serine acetyltransferase
SCE1572_1814	FIG01086118: hypothetical protein	bi	sce_1272	82.11	FIG01086118: hypothetical protein
SCE1572_1815	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)	bi	sce_1273	84.47	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)
SCE1572_1816	conserved hypothetical protein	bi	sce_1275	75	conserved hypothetical protein
SCE1572_1817	two-component response regulator	uni	sce_10305	32.65	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_1818	hypothetical protein	bi	sce_9112	46.55	FIG01089486: hypothetical protein
SCE1572_1819	hypothetical protein	-		0	
SCE1572_1820	Protein of unknown function UPF0153	bi	sce_1284	89.77	hypothetical protein
SCE1572_1821	hypothetical protein	uni	sce_6260	30.36	LOC432261 protein
SCE1572_1822	hypothetical protein	bi	sce_9371	25.11	Trypsin iota precursor (EC 3.4.21.4)
SCE1572_1823	hypothetical protein	-		0	
SCE1572_1824	hypothetical protein	bi	sce_2457	86.08	hypothetical protein
SCE1572_1825	maleylacetoacetate isomerase	bi	sce_2458	89.66	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_1826	conserved hypothetical protein; putative PE_PGRS motifs	uni	sce_3154	69.64	Arylsulfatase (EC 3.1.6.1)
SCE1572_1827	hypothetical protein	uni	sce_3421	33.33	FIG01086098: hypothetical protein
SCE1572_1828	PE-PGRS FAMILY PROTEIN	uni	sce_2493	54.39	Uncharacterized protein with a C-terminal OMP (outer membrane protein) domain
SCE1572_1829	Xylose isomerase (EC 5.3.1.5)	bi	sce_6076	94.81	Xylose isomerase (EC 5.3.1.5)
SCE1572_1830	FIG01085806: hypothetical protein	bi	sce_1292	81.29	FIG01085806: hypothetical protein
SCE1572_1831	hypothetical protein	-		0	
SCE1572_1832	hypothetical protein	bi	sce_1293	70.8	hypothetical protein
SCE1572_1833	DNA topoisomerase IB (poxvirus type) (EC 5.99.1.2)	bi	sce_1294	80.79	DNA topoisomerase IB (poxvirus type) (EC 5.99.1.2)
SCE1572_1834	hypothetical protein	bi	sce_1295	73.21	hypothetical protein
SCE1572_1835	FIG01087107: hypothetical protein	bi	sce_1296	86.79	FIG01087107: hypothetical protein
SCE1572_1836	Gsr1690 protein	bi	sce_1297	93.15	hypothetical protein
SCE1572_1837	Acyl-CoA dehydrogenase, short-chain specific (EC 1.3.99.2)	bi	sce_1299	93.3	Acyl-CoA dehydrogenase, short-chain specific (EC 1.3.99.2)
SCE1572_1838	SAM-dependent methyltransferase	bi	sce_1300	87.89	SAM-dependent methyltransferase
SCE1572_1839	hypothetical protein	bi	sce_1301	77.5	hypothetical protein
SCE1572_1840	Alcohol dehydrogenase (EC 1.1.1.1)	bi	sce_1302	89.11	iron-containing alcohol dehydrogenase
SCE1572_1841	Antibiotic biosynthesis monooxygenase	bi	sce_1303	86.67	Antibiotic biosynthesis monooxygenase
SCE1572_1842	hypothetical protein	bi	sce_1304	77.38	hypothetical protein
SCE1572_1843	putative carboxylesterase	bi	sce_1305	75.56	putative carboxylesterase
SCE1572_1844	Histidine kinase	bi	sce_1306	87.34	Histidine kinase
SCE1572_1845	hypothetical protein	-		0	
SCE1572_1846	Two-component response regulator	bi	sce_1308	90.48	response regulator receiver protein
SCE1572_1847	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)	bi	sce_1493	63.23	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)
SCE1572_1848	Xylose ABC transporter, substrate-binding component	uni	sce_7038	67.21	hypothetical protein
SCE1572_1849	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins	bi	sce_1492	82.37	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins
SCE1572_1850	ATP-binding region, ATPase domain protein domain protein	bi	sce_1491	83.14	Signal transduction histidine kinase
SCE1572_1851	two component transcriptional regulator, winged helix family	bi	sce_1490	77.78	response regulator receiver protein
SCE1572_1852	FIG01084882: hypothetical protein	bi	sce_1488	82.61	FIG01084882: hypothetical protein
SCE1572_1853	secreted protein	bi	sce_1487	85.71	secreted protein
SCE1572_1854	hypothetical protein	-		0	
SCE1572_1855	Glycerol-3-phosphate dehydrogenase (EC 1.1.5.3)	bi	sce_1309	86.63	Glycerol-3-phosphate dehydrogenase (EC 1.1.5.3)
SCE1572_1856	HlyB/MsbA family ABC transporter	bi	sce_1310	87.91	HlyB/MsbA family ABC transporter
SCE1572_1857	hypothetical protein	-		0	
SCE1572_1858	Trp repressor binding protein	bi	sce_1312	71.96	Trp repressor binding protein
SCE1572_1859	Two-component response regulator	bi	sce_1313	67.47	Two-component response regulator
SCE1572_1860	Multicopper oxidase	bi	sce_1315	84.99	Multicopper oxidase
SCE1572_1861	acetyltransferase	-		0	
SCE1572_1862	Nitric-oxide reductase (EC 1.7.99.7), quinol-dependent	uni	sce_3679	59.45	Nitric-oxide reductase (EC 1.7.99.7), quinol-dependent
SCE1572_1863	MATE efflux family protein	uni	sce_4895	27.88	MATE efflux family protein
SCE1572_1864	hypothetical protein	-		0	
SCE1572_1865	transcriptional regulator, LysR family	uni	sce_8686	49.21	Transcriptional regulator
SCE1572_1866	GCN5-related N-acetyltransferase	bi	sce_6298	39.22	COG1247: Sortase and related acyltransferases
SCE1572_1867	hypothetical protein	uni	sce_1730	34.53	hypothetical protein
SCE1572_1868	Transcriptional regulator, AraC family	uni	sce_1564	37.06	Transcriptional regulator, AraC family
SCE1572_1869	serine/threonine protein kinase	bi	sce_1342	92.31	serine/threonine protein kinase
SCE1572_1870	hypothetical protein	bi	sce_1344	76.99	hypothetical protein
SCE1572_1871	Cell division protein FtsH (EC 3.4.24.-)	uni	sce_3154	55.17	Arylsulfatase (EC 3.1.6.1)
SCE1572_1872	Cysteine desulfurase (EC 2.8.1.7)	bi	sce_1345	89.83	Cysteine desulfurase (EC 2.8.1.7)
SCE1572_1873	Gamma-glutamyltranspeptidase (EC 2.3.2.2)	bi	sce_1347	85.37	Gamma-glutamyltranspeptidase (EC 2.3.2.2)
SCE1572_1874	Glutathione S-transferase, unnamed subgroup 2 (EC 2.5.1.18)	bi	sce_1390	89.1	Glutathione S-transferase, unnamed subgroup 2 (EC 2.5.1.18)
SCE1572_1875	Metallopeptidase	bi	sce_1391	88.09	Metallopeptidase
SCE1572_1876	Uncharacterized protein ImpC	bi	sce_1392	90.79	Uncharacterized protein ImpC
SCE1572_1877	hypothetical protein	bi	sce_1393	70	hypothetical protein
SCE1572_1878	hypothetical protein	bi	sce_1394	77.91	hypothetical protein
SCE1572_1879	hypothetical protein	bi	sce_1395	79.7	hypothetical protein
SCE1572_1880	Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.	bi	sce_1396	91.61	Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.6.3.4)
SCE1572_1881	putative cytochrome c precursor	bi	sce_1397	80.98	putative cytochrome c precursor
SCE1572_1882	Serine/threonine kinase with two-component sensor domain	bi	sce_1398	82.03	Serine/threonine kinase with two-component sensor domain
SCE1572_1883	hypothetical protein	-		0	
SCE1572_1884	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_1399	69.44	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_1885	Prephenate and/or arogenate dehydrogenase (unknown specificity) (EC 1.3.1.12)(EC 1.3.1.43) / Chorismate mutase I (EC 5.4.9	bi	sce_1401	90.27	Prephenate and/or arogenate dehydrogenase (unknown specificity) (EC 1.3.1.12)(EC 1.3.1.43) / Chorismate mutase I (EC 5.4.99.5)
SCE1572_1886	hypothetical protein	uni	sce_3858	42	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_1887	two-component sensor histidine kinase	bi	sce_1402	90.46	response regulator
SCE1572_1888	Beta-hexosaminidase (EC 3.2.1.52)	bi	sce_1403	64.79	Cell division protein FtsZ (EC 3.4.24.-)
SCE1572_1889	Serine/threonine kinase with two-component sensor domain	bi	sce_1404	75.12	Serine/threonine kinase with two-component sensor domain
SCE1572_1890	NAD dependent epimerase/dehydratase family	uni	sce_1993	28.83	NAD-dependent epimerase/dehydratase
SCE1572_1891	hypothetical protein	bi	sce_1405	56.36	hypothetical protein
SCE1572_1892	Gll0645 protein	bi	sce_1406	73.62	Gll0645 protein
SCE1572_1893	Gluconokinase (EC 2.7.1.12)	bi	sce_1407	88.2	Gluconokinase (EC 2.7.1.12)
SCE1572_1894	Leukocyte elastase inhibitor (LEI) (Serpin B1) (Leukocyte neutral proteinase inhibitor) (LNPI)	bi	sce_1408	82.18	Leukocyte elastase inhibitor (LEI) (Serpin B1) (Leukocyte neutral proteinase inhibitor) (LNPI)
SCE1572_1895	FIG01085385: hypothetical protein	bi	sce_1409	81.36	FIG01085385: hypothetical protein
SCE1572_1896	hypothetical protein	uni	sce_8580	68.97	Kazal-type serine protease inhibitor domain
SCE1572_1897	hypothetical protein	-		0	
SCE1572_1898	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)	bi	sce_1410	91.75	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)
SCE1572_1899	Histone acetyltransferase HPA2 and related acetyltransferases	bi	sce_1411	87.17	Histone acetyltransferase HPA2 and related acetyltransferases
SCE1572_1900	4-carboxymuconolactone decarboxylase domain/alkylhydroperoxidase AhpD family core domain protein	uni	sce_492	45.07	4-carboxymuconolactone decarboxylase domain/alkylhydroperoxidase AhpD family core domain protein
SCE1572_1901	Probable carboxyvinyl-carboxyphosphonate phosphorylmutase (EC 2.7.8.23)	uni	sce_676	30.38	carboxyvinyl-carboxyphosphonate phosphorylmutase
SCE1572_1902	FIG01086573: hypothetical protein	bi	sce_1414	93.74	FIG01086573: hypothetical protein
SCE1572_1903	Translation elongation factor G-related protein	bi	sce_1415	93.63	Translation elongation factor G-related protein
SCE1572_1904	hypothetical protein	-		0	
SCE1572_1905	hypothetical protein	bi	sce_1416	84.91	hypothetical protein
SCE1572_1906	serine/threonine protein kinase	bi	sce_1417	72.74	serine/threonine protein kinase
SCE1572_1907	FIG01085868: hypothetical protein	bi	sce_1418	86.55	FIG01085868: hypothetical protein
SCE1572_1908	FIG01085539: hypothetical protein	bi	sce_1419	94.03	FIG01085539: hypothetical protein
SCE1572_1909	hypothetical protein	-		0	
SCE1572_1910	hypothetical protein	uni	sce_8406	31.36	hypothetical protein
SCE1572_1911	hypothetical protein	uni	sce_7594	46.11	hypothetical protein
SCE1572_1912	FIG01085539: hypothetical protein	uni	sce_1419	85.11	FIG01085539: hypothetical protein
SCE1572_1913	hypothetical protein	-		0	
SCE1572_1914	Usg protein	bi	sce_1421	63.83	Usg protein
SCE1572_1915	hypothetical protein	bi	sce_1422	85.99	hypothetical protein
SCE1572_1916	FIG01086549: hypothetical protein	uni	sce_5307	58.06	FIG01086549: hypothetical protein
SCE1572_1917	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_1436	84.89	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_1918	FIG01087804: hypothetical protein	bi	sce_1437	90.13	FIG01087804: hypothetical protein
SCE1572_1919	FIG01085464: hypothetical protein	bi	sce_1438	91.94	FIG01085464: hypothetical protein
SCE1572_1920	hypothetical protein	bi	sce_1439	88.21	hypothetical protein
SCE1572_1921	hypothetical protein	-		0	
SCE1572_1922	Glycosyltransferase (EC 2.4.1.-)	bi	sce_1440	85.75	Glycosyltransferase (EC 2.4.1.-)
SCE1572_1923	glycosyl transferase, group 1 family protein	bi	sce_1441	86.08	glycosyl transferase, group 1 family protein
SCE1572_1924	FIG00704173: hypothetical protein	bi	sce_1442	93.37	FIG00704173: hypothetical protein
SCE1572_1925	hypothetical protein	bi	sce_1443	84.09	hypothetical protein
SCE1572_1926	Glycogen debranching enzyme (EC 3.2.1.-)	bi	sce_1444	93.65	Glycogen debranching enzyme (EC 3.2.1.-)
SCE1572_1927	acetyltransferase	bi	sce_1445	94.82	acetyltransferase
SCE1572_1928	Serine-threonine protein kinase	bi	sce_1446	82.42	Serine-threonine protein kinase
SCE1572_1929	nitrite reductase (NAD(P)H), small subunit	bi	sce_1447	87.25	nitrite reductase (NAD(P)H), small subunit
SCE1572_1930	RNA-2',3'-PO4:RNA-5'-OH ligase	bi	sce_1448	93.56	RNA-2',3'-PO4:RNA-5'-OH ligase
SCE1572_1931	FIG00703100: hypothetical protein	uni	sce_2577	50.39	FIG00703100: hypothetical protein
SCE1572_1932	FIG01087818: hypothetical protein	bi	sce_1449	82.19	FIG01087818: hypothetical protein
SCE1572_1933	conserved hypothetical protein	uni	sce_7493	31.33	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)
SCE1572_1934	putative	bi	sce_1450	89.92	transglutaminase-like
SCE1572_1935	hypothetical protein	-		0	
SCE1572_1936	serine/threonine protein kinase	uni	sce_5226	40.36	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_1937	hypothetical protein	-		0	
SCE1572_1938	Putative bacterial haemoglobin	uni	sce_5698	50	Putative bacterial haemoglobin
SCE1572_1939	nitrogen metabolism transcriptional regulator, NtrC, Fis Family	uni	sce_9770	37.13	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_1940	putative RTX family exoprotein	uni	sce_6197	31.48	BNR repeat domain protein
SCE1572_1941	putative RTX family exoprotein	uni	sce_6171	32.79	BNR repeat domain protein
SCE1572_1942	hypothetical protein	-		0	
SCE1572_1943	alpha/beta hydrolase fold	uni	sce_4657	40.4	epoxide hydrolase
SCE1572_1944	Catalase (EC 1.11.1.6)	-		0	
SCE1572_1945	hypothetical protein	-		0	
SCE1572_1946	hypothetical protein	bi	sce_5198	27.45	FIG01089306: hypothetical protein
SCE1572_1947	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_3170	32.63	serine/threonine kinase Pkn10(EC:2.7.1.-)
SCE1572_1948	hypothetical protein	bi	sce_1316	69.18	FIG01086389: hypothetical protein
SCE1572_1949	hypothetical protein	-		0	
SCE1572_1950	Nitrous oxide reductase maturation protein NosF (ATPase)	bi	sce_848	75	Nitrous oxide reductase maturation protein NosF (ATPase)
SCE1572_1951	hypothetical protein	bi	sce_849	63.08	hypothetical protein
SCE1572_1952	hypothetical protein	bi	sce_850	46.13	FIG01086100: hypothetical protein
SCE1572_1953	Carbonic anhydrase (EC 4.2.1.1)	bi	sce_1455	90.42	Carbonic anhydrase (EC 4.2.1.1)
SCE1572_1954	Mll0076 protein	bi	sce_6015	87.5	Mll0076 protein
SCE1572_1955	conserved hypothetical protein	bi	sce_1456	85	hypothetical protein
SCE1572_1956	Choline kinase (EC 2.7.1.32)	bi	sce_1457	82.13	Choline kinase (EC 2.7.1.32)
SCE1572_1957	RNA signal recognition particle 4.5S RNA	bi	sce_6060	70.69	RNA signal recognition particle 4.5S RNA
SCE1572_1958	RsbR, positive regulator of sigma-B	bi	sce_2565	82.53	RsbR, positive regulator of sigma-B
SCE1572_1959	hypothetical protein	bi	sce_1461	61.54	hypothetical protein
SCE1572_1960	Predicted metal-dependent hydrolase of the TIM-barrel fold	bi	sce_1462	96.46	Predicted metal-dependent hydrolase of the TIM-barrel fold
SCE1572_1961	FIG01085728: hypothetical protein	bi	sce_1463	89.46	FIG01085728: hypothetical protein
SCE1572_1962	Alkanesulfonates-binding protein	bi	sce_1464	91.92	Alkanesulfonates-binding protein
SCE1572_1963	Alkanesulfonates transport system permease protein	bi	sce_1465	89.86	Alkanesulfonates transport system permease protein
SCE1572_1964	Alkanesulfonates transport system permease protein	bi	sce_1466	88.85	Alkanesulfonates transport system permease protein
SCE1572_1965	Alkanesulfonates ABC transporter ATP-binding protein / Sulfonate ABC transporter, ATP-binding subunit SsuB	bi	sce_1467	91.63	Alkanesulfonates ABC transporter ATP-binding protein / Sulfonate ABC transporter, ATP-binding subunit SsuB

SCE1572_1966	Alkanesulfonates-binding protein	bi	sce_1468	90.21	Alkanesulfonates-binding protein
SCE1572_1967	thioredoxin 2(EC:1.8.1.8)	bi	sce_1470	92.79	thioredoxin
SCE1572_1968	hypothetical protein	-		0	
SCE1572_1969	Cell division inhibitor	bi	sce_1471	91.45	Cell division inhibitor
SCE1572_1970	Glycerophosphoryl diester phosphodiesterase (EC 3.1.4.46)	-		0	
SCE1572_1971	hypothetical protein	bi	sce_1472	84.27	hypothetical protein
SCE1572_1972	peptidase, M16 family	bi	sce_1473	85	peptidase M16-like
SCE1572_1973	hypothetical protein	-		0	
SCE1572_1974	Anaerobic nitric oxide reductase transcription regulator NorR	bi	sce_5699	93.69	Anaerobic nitric oxide reductase transcription regulator NorR
SCE1572_1975	peptidase M16-like	bi	sce_1474	81.93	peptidase M16-like
SCE1572_1976	lysyl oxidase	bi	sce_1475	73.81	lysyl oxidase
SCE1572_1977	Glutathione S-transferase (EC 2.5.1.18)	uni	sce_7792	32	Glutathione S-transferase, unnamed subgroup (EC 2.5.1.18)
SCE1572_1978	Transcriptional regulator, TetR family	uni	sce_7595	32.86	Transcriptional regulator, TetR family
SCE1572_1979	hypothetical protein	-		0	
SCE1572_1980	hypothetical protein-transmembrane prediction	-		0	
SCE1572_1981	hypothetical protein	-		0	
SCE1572_1982	hypothetical protein	-		0	
SCE1572_1983	hypothetical protein	-		0	
SCE1572_1984	hypothetical protein	-		0	
SCE1572_1985	Vanadium haloperoxidase (EC 1.11.1.-)	-		0	
SCE1572_1986	Flagellar hook-length control protein FliK	uni	sce_3697	28.44	PE-PGRS FAMILY PROTEIN
SCE1572_1987	FIG01085490: hypothetical protein	uni	sce_9493	49.23	putative secreted protein
SCE1572_1988	hypothetical protein	-		0	
SCE1572_1989	hypothetical protein	-		0	
SCE1572_1990	hypothetical protein	-		0	
SCE1572_1991	putative hydrolase	uni	sce_7491	30.17	Bll1406 protein
SCE1572_1992	hypothetical protein	-		0	
SCE1572_1993	probable short-chain dehydrogenase	bi	sce_1476	87.69	probable short-chain dehydrogenase
SCE1572_1994	Predicted thiol oxidoreductase	bi	sce_1477	82.93	Predicted thiol oxidoreductase
SCE1572_1995	FIG01087065: hypothetical protein	bi	sce_1478	92.98	FIG01087065: hypothetical protein
SCE1572_1996	hypothetical protein-transmembrane prediction	bi	sce_1479	82.02	hypothetical protein-transmembrane prediction
SCE1572_1997	hypothetical protein	bi	sce_1480	64.18	hypothetical protein
SCE1572_1998	putative transmembrane protein	bi	sce_1481	81.6	hypothetical protein
SCE1572_1999	FIG01087210: hypothetical protein	bi	sce_1482	75	FIG01087210: hypothetical protein
SCE1572_2000	PUTATIVE LIPOPROTEIN TRANSMEMBRANE	bi	sce_1483	66.08	Serine-threonine protein kinase
SCE1572_2001	RNA polymerase sigma factor RpoE	bi	sce_1484	90.38	RNA polymerase sigma factor RpoE
SCE1572_2002	EBNA-1	bi	sce_9154	51	PE-PGRS family protein
SCE1572_2003	VgrG protein	uni	sce_1486	60.54	VgrG protein
SCE1572_2004	hypothetical protein	-		0	
SCE1572_2005	hypothetical protein	bi	sce_8025	88.83	hypothetical protein
SCE1572_2006	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	uni	sce_9025	36.57	hypothetical protein
SCE1572_2007	acetyltransferase, GNAT family	uni	sce_5653	30.15	FIG01088914: hypothetical protein
SCE1572_2008	conserved hypothetical ATP-binding protein	uni	sce_8597	34.1	ATP binding protein
SCE1572_2009	hypothetical protein	uni	sce_1587	34.09	hypothetical protein
SCE1572_2010	hypothetical protein	-		0	
SCE1572_2011	hypothetical protein	bi	sce_5518	60.22	NAD(P)HX epimerase / NAD(P)HX dehydratase
SCE1572_2012	FIG01089158: hypothetical protein	uni	sce_6082	56.64	FIG01089158: hypothetical protein
SCE1572_2013	FIG01089158: hypothetical protein	uni	sce_6082	59.6	FIG01089158: hypothetical protein
SCE1572_2014	FIG01089158: hypothetical protein	bi	sce_6082	62.71	FIG01089158: hypothetical protein
SCE1572_2015	hypothetical protein	-		0	
SCE1572_2016	Potassium-transporting ATPase A chain (EC 3.6.3.12) (TC 3.A.3.7.1)	bi	sce_1496	93.67	Potassium-transporting ATPase A chain (EC 3.6.3.12) (TC 3.A.3.7.1)
SCE1572_2017	Potassium-transporting ATPase B chain (EC 3.6.3.12) (TC 3.A.3.7.1)	bi	sce_1497	91.64	Potassium-transporting ATPase B chain (EC 3.6.3.12) (TC 3.A.3.7.1)
SCE1572_2018	Potassium-transporting ATPase C chain (EC 3.6.3.12) (TC 3.A.3.7.1)	bi	sce_1498	92.59	Potassium-transporting ATPase C chain (EC 3.6.3.12) (TC 3.A.3.7.1)
SCE1572_2019	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)	bi	sce_1499	89.56	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)
SCE1572_2020	DNA-binding response regulator KdpE	bi	sce_1500	95.26	DNA-binding response regulator KdpE
SCE1572_2021	hypothetical protein	-		0	
SCE1572_2022	Beta-xylosidase (EC 3.2.1.37)	bi	sce_3705	73.04	Beta-xylosidase (EC 3.2.1.37)
SCE1572_2023	hypothetical protein	bi	sce_5152	72.66	predicted protein
SCE1572_2024	DNA polymerase IV (EC 2.7.7.7)	bi	sce_1510	89.66	DNA polymerase IV (EC 2.7.7.7)
SCE1572_2025	FIG01087716: hypothetical protein	bi	sce_1511	75.3	FIG01087716: hypothetical protein
SCE1572_2026	Putative oxidoreductase YncB	bi	sce_9276	48.38	Quinone oxidoreductase (EC 1.6.5.5)
SCE1572_2027	hypothetical protein	-		0	
SCE1572_2028	Dihydrofolate reductase (EC 1.5.1.3)	bi	sce_1517	80.11	Dihydrofolate reductase (EC 1.5.1.3)
SCE1572_2029	hypothetical protein	bi	sce_1512	86.7	Transport protein
SCE1572_2030	hypothetical protein	bi	sce_8774	61.25	hypothetical protein
SCE1572_2031	FIG01087529: hypothetical protein	bi	sce_1513	86.54	FIG01087529: hypothetical protein
SCE1572_2032	PE-PGRS family protein	uni	sce_1514	59.28	putative immediate early protein
SCE1572_2033	Mobile element protein	uni	sce_1675	96.77	ISLp1
SCE1572_2034	FIG01085909: hypothetical protein	uni	sce_7667	45.16	FIG01085006: hypothetical protein
SCE1572_2035	hypothetical protein	-		0	
SCE1572_2036	Collagen triple helix repeat	uni	sce_1518	58.15	FIG01087054: hypothetical protein
SCE1572_2037	FIG00660906: hypothetical protein	uni	sce_4839	32.76	FIG01088196: hypothetical protein
SCE1572_2038	FIG01085825: hypothetical protein	bi	sce_1519	85.32	FIG01085825: hypothetical protein
SCE1572_2039	hypothetical protein	bi	sce_1520	87.32	hypothetical protein
SCE1572_2040	Membrane protein, putative	bi	sce_1521	87.13	Membrane protein, putative
SCE1572_2041	NAD(P)H dehydrogenase (quinone):NADPH-dependent FMN reductase	bi	sce_1679	76.5	NAD(P)H dehydrogenase (quinone):NADPH-dependent FMN reductase
SCE1572_2042	50S ribosomal subunit maturation GTPase RbgA (B. subtilis YlqF)	bi	sce_1522	92.08	50S ribosomal subunit maturation GTPase RbgA (B. subtilis YlqF)
SCE1572_2043	2-hydroxychromene-2-carboxylate isomerase/DsbA-like thioredoxin domain	bi	sce_1523	85.71	2-hydroxychromene-2-carboxylate isomerase/DsbA-like thioredoxin domain
SCE1572_2044	hypothetical protein	-		0	
SCE1572_2045	possible rhomboid family protein	bi	sce_1527	81.14	Rhomboid family protein
SCE1572_2046	hypothetical protein	bi	sce_1529	88.85	hypothetical protein
SCE1572_2047	hypothetical protein	-		0	
SCE1572_2048	GNAT family acetyltransferase YjcF	bi	sce_1530	83.92	GNAT family acetyltransferase YjcF
SCE1572_2049	hypothetical protein	uni	sce_8963	38.6	Dihydroflavonol-4-reductase (EC 1.1.1.219)
SCE1572_2050	conserved hypothetical protein	-		0	
SCE1572_2051	hypothetical protein	uni	sce_3844	39.71	Uncharacterized protein conserved in bacteria, NMA0228-like
SCE1572_2052	hypothetical protein	-		0	
SCE1572_2053	hypothetical protein	-		0	
SCE1572_2054	UDP-galactose-lipid carrier transferase (EC 2.-.-.-)	bi	sce_1546	90.75	UDP-galactose-lipid carrier transferase (EC 2.-.-.-)
SCE1572_2055	PROBABLE TREHALOSE-6-PHOSPHATE PHOSPHATASE OTSB1 (TREHALOSE- PHOSPHATASE) (TPP) (EC 3.2.1.2	bi	sce_1567	77.24	PROBABLE TREHALOSE-6-PHOSPHATE PHOSPHATASE OTSB1 (TREHALOSE- PHOSPHATASE) (TPP) (EC 3.2.1.28)
SCE1572_2056	D-alanine--D-alanine ligase (EC 6.3.2.4)	uni	sce_3103	38.59	D-alanine--D-alanine ligase (EC 6.3.2.4)
SCE1572_2057	hypothetical protein	-		0	
SCE1572_2058	hypothetical protein	-		0	
SCE1572_2059	Permeases of the major facilitator superfamily	bi	sce_1569	86.8	Permeases of the major facilitator superfamily
SCE1572_2060	ABC-type nitrate/sulfonate/bicarbonate transport systems, periplasmic components	uni	sce_1570	69.62	ABC-type nitrate/sulfonate/bicarbonate transport systems, periplasmic components
SCE1572_2061	ABC-type nitrate/sulfonate/bicarbonate transport systems, periplasmic components	bi	sce_1570	86.34	ABC-type nitrate/sulfonate/bicarbonate transport systems, periplasmic components
SCE1572_2062	Cyanate hydratase (EC 4.2.1.104)	-		0	
SCE1572_2063	RsbR, positive regulator of sigma-B	uni	sce_4461	50.89	RsbR, positive regulator of sigma-B
SCE1572_2064	hypothetical protein	bi	sce_3848	33.81	hypothetical protein
SCE1572_2065	Probable Co/Zn/Cd efflux system membrane fusion protein	bi	sce_1576	89.31	Probable Co/Zn/Cd efflux system membrane fusion protein
SCE1572_2066	Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA	bi	sce_1577	93.66	Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA
SCE1572_2067	LysR family transcriptional regulator STM3121	bi	sce_1578	89.1	LysR family transcriptional regulator STM3121
SCE1572_2068	hypothetical protein	-		0	
SCE1572_2069	RsbR, positive regulator of sigma-B	bi	sce_1579	77.18	positive regulator
SCE1572_2070	hypothetical protein	-		0	
SCE1572_2071	hypothetical protein	bi	sce_1583	72.14	hypothetical protein
SCE1572_2072	sigma-54 dependent DNA-binding response regulator	bi	sce_1588	89.76	sigma-54 dependent DNA-binding response regulator
SCE1572_2073	sigma-54 dependent DNA-binding response regulator	uni	sce_1588	82.75	sigma-54 dependent DNA-binding response regulator
SCE1572_2074	FIG01084914: hypothetical protein	bi	sce_1589	69.96	FIG01084914: hypothetical protein
SCE1572_2075	hypothetical protein	bi	sce_1590	67.86	hypothetical protein
SCE1572_2076	Transcriptional regulator, LacI family	bi	sce_1591	70.92	Transcriptional regulator, LacI family
SCE1572_2077	Agmatinase (EC 3.5.3.11)	bi	sce_10225	71.2	Agmatinase (EC 3.5.3.11)
SCE1572_2078	hydrolase, alpha/beta fold family	bi	sce_7460	89.96	hydrolase, alpha/beta fold family
SCE1572_2079	Similar to F420-dependent glucose-6-phosphate dehydrogenase, Mext_1273 family	-		0	
SCE1572_2080	Aminopeptidase Y (Arg, Lys, Leu preference) (EC 3.4.11.15)	bi	sce_1592	76.19	Aminopeptidase Y (Arg, Lys, Leu preference) (EC 3.4.11.15)
SCE1572_2081	Cytochrome c552 precursor (EC 1.7.2.2)	bi	sce_1593	90.76	Cytochrome c552 precursor (EC 1.7.2.2)
SCE1572_2082	Cytochrome c nitrite reductase, small subunit NrfH	bi	sce_1594	82.66	Cytochrome c nitrite reductase, small subunit NrfH
SCE1572_2083	hypothetical protein	-		0	
SCE1572_2084	hypothetical protein	-		0	
SCE1572_2085	hypothetical protein	uni	sce_8056	29.95	FIG01085335: hypothetical protein
SCE1572_2086	Sialic acid transporter (permease) NanT	bi	sce_1596	86.47	Sialic acid transporter (permease) NanT
SCE1572_2087	hypothetical protein	-		0	
SCE1572_2088	putative cytochrome P450 hydroxylase	uni	sce_7075	60.89	putative cytochrome P450 hydroxylase
SCE1572_2089	putative immediate early protein	bi	sce_5892	59.31	erythrocyte membrane protein 1 (PfEMP1)
SCE1572_2090	hypothetical protein	-		0	
SCE1572_2091	hypothetical protein	-		0	
SCE1572_2092	Gfa-like protein	bi	sce_7399	73.85	Gfa-like protein
SCE1572_2093	hypothetical protein	-		0	
SCE1572_2094	dioxygenase	-		0	
SCE1572_2095	Hydrolase, alpha/beta fold family	bi	sce_1609	74.73	Hydrolase, alpha/beta fold family
SCE1572_2096	FIG01088506: hypothetical protein	bi	sce_1610	77.42	FIG01088506: hypothetical protein
SCE1572_2097	hypothetical protein	bi	sce_1611	94.21	hypothetical protein
SCE1572_2098	PE-PGRS FAMILY PROTEIN	bi	sce_1612	77.13	Chitinase (EC 3.2.1.14)
SCE1572_2099	aldose 1-epimerase family protein	bi	sce_1613	87.03	aldose 1-epimerase family protein
SCE1572_2100	hypothetical protein	bi	sce_1614	91.49	hypothetical protein
SCE1572_2101	FIG01087944: hypothetical protein	bi	sce_1617	83.44	FIG01087944: hypothetical protein
SCE1572_2102	hydrolase, alpha/beta hydrolase fold family	bi	sce_1618	84.36	probable hydrolase(EC:3.-)
SCE1572_2103	MutS-related protein, family 1	bi	sce_1619	90.09	MutS-related protein, family 1
SCE1572_2104	Transaldolase (EC 2.2.1.2)	bi	sce_1620	91.79	Transaldolase (EC 2.2.1.2)
SCE1572_2105	FIG01086000: hypothetical protein	bi	sce_1621	84.47	FIG01086000: hypothetical protein
SCE1572_2106	FIG01089281: hypothetical protein	bi	sce_1622	84.4	FIG01089281: hypothetical protein
SCE1572_2107	FIG01085285: hypothetical protein	bi	sce_1623	92.09	FIG01085285: hypothetical protein
SCE1572_2108	hypothetical protein	bi	sce_1624	84.82	hypothetical protein
SCE1572_2109	hypothetical protein	bi	sce_1625	94.39	hypothetical protein
SCE1572_2110	Cyclopropane-fatty-acyl-phospholipid synthase (EC 2.1.1.79)	bi	sce_1626	97.12	PUTATIVE CYCLOPROPANE-FATTY-ACYL-PHOSPHOLIPID SYNTHASE PROTEIN(EC:2.1.1.79)
SCE1572_2111	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_1627	93.54	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_2112	hypothetical protein	-		0	
SCE1572_2113	PE-PGRS FAMILY PROTEIN	uni	sce_4770	51.81	hypothetical protein
SCE1572_2114	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_1629	78.54	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_2115	FIG01088155: hypothetical protein	bi	sce_1630	84.54	FIG01088155: hypothetical protein
SCE1572_2116	hypothetical protein	-		0	
SCE1572_2117	Na driven multidrug efflux pump	bi	sce_1631	88.59	Na driven multidrug efflux pump
SCE1572_2118	hypothetical protein	-		0	
SCE1572_2119	FIG01088775: hypothetical protein	bi	sce_1632	81.64	FIG01088775: hypothetical protein
SCE1572_2120	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_1633	93	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_2121	Recombination inhibitory protein MutS2	bi	sce_1634	91.11	Recombination inhibitory protein MutS2
SCE1572_2122	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	-		0	
SCE1572_2123	two-component hybrid sensor and regulator	bi	sce_1635	76.38	two-component hybrid sensor and regulator
SCE1572_2124	ATP-dependent DNA ligase (EC 6.5.1.1) clustered with Ku protein, LigD	uni	sce_3945	50.58	ATP-dependent DNA ligase (EC 6.5.1.1) clustered with Ku protein, LigD
SCE1572_2125	drug resistance transporter, EmrB/QacA family	bi	sce_1645	91.33	drug resistance transporter, EmrB/QacA family
SCE1572_2126	serine/threonine kinase family protein	bi	sce_1646	77.5	hypothetical protein
SCE1572_2127	hypothetical protein	-		0	
SCE1572_2128	Arabinan endo-1,5-alpha-L-arabinosidase (EC 3.2.1.99)	bi	sce_1647	74.25	Arabinan endo-1,5-alpha-L-arabinosidase (EC 3.2.1.99)
SCE1572_2129	FIG01089314: hypothetical protein	bi	sce_1648	91.09	FIG01089314: hypothetical protein

SCE1572_2130	hypothetical protein	bi	sce_1649	56.01	hypothetical protein
SCE1572_2131	hypothetical protein	bi	sce_1650	85.37	hypothetical protein
SCE1572_2132	rhamnogalacturonan acetylesterase	bi	sce_1652	76.56	rhamnogalacturonan acetylesterase
SCE1572_2133	Predicted rhamnogalacturonan lyase in rhamnose utilization cluster	uni	sce_3412	54.61	Predicted rhamnogalacturonan lyase in rhamnose utilization cluster
SCE1572_2134	hypothetical protein	-		0	
SCE1572_2135	hypothetical protein	-		0	
SCE1572_2136	gliding motility protein MglA	bi	sce_1655	94.82	gliding motility protein MglA
SCE1572_2137	FIG01087084: hypothetical protein	bi	sce_1656	89.63	FIG01087084: hypothetical protein
SCE1572_2138	hypothetical protein	-		0	
SCE1572_2139	putative cytochrome P450 hydroxylase	bi	sce_7075	64.96	putative cytochrome P450 hydroxylase
SCE1572_2140	hypothetical protein	-		0	
SCE1572_2141	hypothetical protein	-		0	
SCE1572_2142	Beta-lactamase class C and other penicillin binding proteins	bi	sce_1658	83.29	Beta-lactamase class C and other penicillin binding proteins
SCE1572_2143	Adenylate cyclase (EC 4.6.1.1)	bi	sce_1666	87.96	Adenylate cyclase (EC 4.6.1.1)
SCE1572_2144	Outer membrane protein A-like protein	bi	sce_1667	86.69	Outer membrane protein A-like protein
SCE1572_2145	hypothetical protein	bi	sce_1668	80.51	FIG01086036: hypothetical protein
SCE1572_2146	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_841	83.54	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_2147	hypothetical protein	uni	sce_1677	27.38	PE-PGRS FAMILY PROTEIN
SCE1572_2148	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_841	89.64	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_2149	Transcriptional regulator, AraC family	uni	sce_2490	38.1	Transcriptional regulator, AraC family
SCE1572_2150	short-chain dehydrogenase/reductase SDR	uni	sce_6012	40	Retinol dehydrogenase 13 (EC 1.1.1.-)
SCE1572_2151	Succinoglycan biosynthesis protein exoA (EC 2.-.-.-)	bi	sce_1719	88.76	Succinoglycan biosynthesis protein exoA (EC 2.-.-.-)
SCE1572_2152	Methylthioribulose-1-phosphate dehydratase (EC 4.2.1.109)	bi	sce_1720	86.32	Methylthioribulose-1-phosphate dehydratase (EC 4.2.1.109)
SCE1572_2153	1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase (EC 1.13.11.54)	bi	sce_1721	91.67	1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase (EC 1.13.11.54)
SCE1572_2154	2,3-diketo-5-methylthiopentyl-1-phosphate enolase-phosphatase (EC 3.1.3.77)	bi	sce_1722	87.83	2,3-diketo-5-methylthiopentyl-1-phosphate enolase-phosphatase (EC 3.1.3.77)
SCE1572_2155	hypothetical protein	-		0	
SCE1572_2156	Transcriptional regulator, HxlR family	uni	sce_2658	42.05	Transcriptional regulator, HxlR family
SCE1572_2157	Glutathione S-transferase (EC 2.5.1.18)	uni	sce_4471	56.06	Glutathione S-transferase domain protein
SCE1572_2158	Conserved domain protein	uni	sce_5251	77.78	hypothetical protein
SCE1572_2159	hypothetical protein	bi	sce_3770	64.15	sugar ABC transporter, periplasmic sugar-binding protein
SCE1572_2160	Phytanoyl-CoA dioxygenase	-		0	
SCE1572_2161	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_389	45.2	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_2162	SanA protein	uni	sce_968	32.03	FIG01087584: hypothetical protein
SCE1572_2163	FIG01088801: hypothetical protein	bi	sce_175	78.66	FIG01088801: hypothetical protein
SCE1572_2164	hypothetical protein	-		0	
SCE1572_2165	putative membrane protein of unknown function with protease domain	-		0	
SCE1572_2166	Alpha-1,2-mannosidase	uni	sce_857	50.75	Secreted trypsin-like serine protease
SCE1572_2167	hypothetical protein	-		0	
SCE1572_2168	hypothetical protein	-		0	
SCE1572_2169	Nitrilase (EC 3.5.5.7)	uni	sce_10049	38.33	Nitrilase (EC 3.5.5.7)
SCE1572_2170	serine/threonine protein kinase	bi	sce_5759	93.72	serine/threonine protein kinase
SCE1572_2171	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	bi	sce_5758	87.04	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_2172	hypothetical protein	-		0	
SCE1572_2173	Thioredoxin	uni	sce_6433	41.49	Thioredoxin
SCE1572_2174	putative membrane protein	bi	sce_764	94.14	putative membrane protein
SCE1572_2175	FIG01086453: hypothetical protein	uni	sce_1227	49.74	FIG01086453: hypothetical protein
SCE1572_2176	structural constituent of cell wall	bi	sce_1727	69.96	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)
SCE1572_2177	FIG01087703: hypothetical protein	bi	sce_1728	74.57	FIG01087703: hypothetical protein
SCE1572_2178	putative secreted hydrolase	bi	sce_10158	34.41	hypothetical protein
SCE1572_2179	RNA polymerase, sigma-24 subunit, ECF subfamily	-		0	
SCE1572_2180	hypothetical protein	bi	sce_1276	28.16	Fibronectin type III domain protein
SCE1572_2181	Putative glutathione S-transferase (EC 2.5.1.18)	bi	sce_1326	94.78	Putative glutathione S-transferase (EC 2.5.1.18)
SCE1572_2182	protein kinase domain	uni	sce_10233	37.7	protein kinase domain
SCE1572_2183	Serine/threonine protein kinase (EC 2.7.11.1)	uni	sce_10233	42.32	protein kinase domain
SCE1572_2184	FIG01175415: hypothetical protein	bi	sce_6334	34.36	putative integrin-like protein
SCE1572_2185	Uncharacterized serpin-like protein MA_2246	bi	sce_9438	88.99	Uncharacterized serpin-like protein MA_2246
SCE1572_2186	hypothetical protein	-		0	
SCE1572_2187	hypothetical protein	bi	sce_7422	89.45	hypothetical protein
SCE1572_2188	hypothetical protein	-		0	
SCE1572_2189	hypothetical protein	uni	sce_4176	44.44	putative membrane protein
SCE1572_2190	tmRNA-binding protein SmpB	bi	sce_2564	90.74	tmRNA-binding protein SmpB
SCE1572_2191	Dopamine beta-hydroxylase precursor (EC 1.14.17.1) (Dopamine beta-monooxygenase)	bi	sce_7916	93.85	Dopamine beta-hydroxylase precursor (EC 1.14.17.1) (Dopamine beta-monooxygenase)
SCE1572_2192	hypothetical protein	-		0	
SCE1572_2193	istB transposition helper protein	bi	sce_7096	92.45	istB transposition helper protein
SCE1572_2194	FIG01087754: hypothetical protein	uni	sce_2414	63.25	FIG01087754: hypothetical protein
SCE1572_2195	hypothetical protein	bi	sce_176	71.79	hypothetical protein
SCE1572_2196	serine/threonine protein kinase	bi	sce_9450	85.04	serine/threonine protein kinase
SCE1572_2197	Signal transduction histidine kinase CheA (EC 2.7.3.-)	bi	sce_3917	83.41	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_2198	hypothetical protein	-		0	
SCE1572_2199	Dihydrolipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex (EC 2.3.1.168)	bi	sce_1746	84.78	Dihydrolipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex (EC 2.3.1.168)
SCE1572_2200	Branched-chain alpha-keto acid dehydrogenase, E1 component, beta subunit (EC 1.2.4.4)	bi	sce_1747	96.57	Branched-chain alpha-keto acid dehydrogenase, E1 component, beta subunit (EC 1.2.4.4)
SCE1572_2201	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha subunit (EC 1.2.4.4)	bi	sce_1748	92.68	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha subunit (EC 1.2.4.4)
SCE1572_2202	FIG01089395: hypothetical protein	bi	sce_1749	85.57	FIG01089395: hypothetical protein
SCE1572_2203	Lipoate synthase	bi	sce_1750	90.53	Lipoate synthase
SCE1572_2204	Methylthioribose-1-phosphate isomerase (EC 5.3.1.23)	bi	sce_1751	89.92	Methylthioribose-1-phosphate isomerase (EC 5.3.1.23)
SCE1572_2205	hypothetical protein	bi	sce_1752	87.85	hypothetical protein
SCE1572_2206	short-chain dehydrogenase/reductase SDR	bi	sce_1753	91.73	short-chain dehydrogenase/reductase SDR
SCE1572_2207	FIG01088303: hypothetical protein	uni	sce_1754	72.09	FIG01088303: hypothetical protein
SCE1572_2208	FIG01088303: hypothetical protein	bi	sce_1754	82.65	FIG01088303: hypothetical protein
SCE1572_2209	putative alpha-dextrin endo-1, 6-alpha-glucosidase	bi	sce_1755	82.77	putative alpha-dextrin endo-1, 6-alpha-glucosidase
SCE1572_2210	ATP binding protein	uni	sce_9281	33.07	ATP binding protein
SCE1572_2211	hypothetical protein	uni	sce_1587	29.22	hypothetical protein
SCE1572_2212	FIG01089178: hypothetical protein	bi	sce_1756	88.27	FIG01089178: hypothetical protein
SCE1572_2213	hypothetical protein	uni	sce_4997	33.5	hypothetical protein
SCE1572_2214	hypothetical protein	-		0	
SCE1572_2215	Ribosomal RNA large subunit methyltransferase N (EC 2.1.1.-)	bi	sce_1759	90.15	Ribosomal RNA large subunit methyltransferase N (EC 2.1.1.-)
SCE1572_2216	FIG01087693: hypothetical protein	bi	sce_1760	81.39	FIG01087693: hypothetical protein
SCE1572_2217	hypothetical protein	-		0	
SCE1572_2218	Nitric oxide synthase oxygenase (EC 1.-.-.-)	bi	sce_1762	87.81	Nitric oxide synthase oxygenase (EC 1.-.-.-)
SCE1572_2219	hypothetical protein	-		0	
SCE1572_2220	serine/threonine protein kinase	uni	sce_1342	72.78	serine/threonine protein kinase
SCE1572_2221	hypothetical protein	-		0	
SCE1572_2222	FIG01088490: hypothetical protein	bi	sce_1765	77.78	FIG01088490: hypothetical protein
SCE1572_2223	FIG01088098: hypothetical protein	bi	sce_1766	89.51	FIG01088098: hypothetical protein
SCE1572_2224	Domain often clustered or fused with uracil-DNA glycosylase / Uracil-DNA glycosylase, putative family 6	uni	sce_1931	59.42	Uracil-DNA glycosylase, putative family 6
SCE1572_2225	Biotin synthase related domain containing protein	-		0	
SCE1572_2226	Membrane protein	bi	sce_1775	76.81	Membrane protein
SCE1572_2227	FIG01086931: hypothetical protein	bi	sce_787	82.35	FIG01086931: hypothetical protein
SCE1572_2228	hypothetical protein	bi	sce_1776	95.65	hypothetical protein
SCE1572_2229	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY	bi	sce_1777	81.14	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY
SCE1572_2230	Signal transduction histidine kinase CheA (EC 2.7.3.-)	bi	sce_1778	98.54	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_2231	Positive regulator of CheA protein activity (CheW)	bi	sce_1779	97.75	Positive regulator of CheA protein activity (CheW)
SCE1572_2232	Positive regulator of CheA protein activity (CheW)	bi	sce_1780	96.53	Positive regulator of CheA protein activity (CheW)
SCE1572_2233	FOG: HEAT repeat	bi	sce_1781	85.84	FOG: HEAT repeat
SCE1572_2234	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_1782	92.53	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_2235	Chemotaxis response regulator protein-glutamate methylesterase CheB (EC 3.1.1.61)	bi	sce_1783	97.22	Chemotaxis response regulator protein-glutamate methylesterase CheB (EC 3.1.1.61)
SCE1572_2236	Membrane-bound lytic murein transglycosylase D precursor (EC 3.2.1.-)	bi	sce_1784	78.1	Membrane-bound lytic murein transglycosylase D precursor (EC 3.2.1.-)
SCE1572_2237	FIG00871199: hypothetical protein	bi	sce_1785	90.27	FIG00871199: hypothetical protein
SCE1572_2238	serine/threonine protein kinase	bi	sce_1786	65.89	serine/threonine protein kinase
SCE1572_2239	FIG01086365: hypothetical protein	bi	sce_1787	67.6	FIG01086365: hypothetical protein
SCE1572_2240	EBNA-1	bi	sce_1515	61.15	PE-PGRS FAMILY PROTEIN
SCE1572_2241	serine/threonine protein kinase	uni	sce_1787	42.83	FIG01086365: hypothetical protein
SCE1572_2242	Serine-threonine protein kinase	bi	sce_1794	54.09	serine/threonine protein kinase
SCE1572_2243	Chaperone protein DnaJ	uni	sce_1789	49.39	PE-PGRS family protein
SCE1572_2244	hypothetical protein	uni	sce_1790	50.45	hypothetical protein
SCE1572_2245	PE-PGRS FAMILY PROTEIN	uni	sce_1789	50.21	PE-PGRS family protein
SCE1572_2246	PEGA domain protein	uni	sce_1793	42.38	FIG01085807: hypothetical protein
SCE1572_2247	hypothetical protein	-		0	
SCE1572_2248	PE-PGRS FAMILY PROTEIN	uni	sce_1789	44.15	PE-PGRS family protein
SCE1572_2249	hypothetical protein	bi	sce_1790	54.63	hypothetical protein
SCE1572_2250	PE-PGRS FAMILY PROTEIN	uni	sce_4006	44.19	FIG01086775: hypothetical protein
SCE1572_2251	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_1796	39.48	hypothetical protein
SCE1572_2252	hypothetical protein	bi	sce_1797	59.5	Cell division protein FtsK
SCE1572_2253	FIG01087277: hypothetical protein	bi	sce_1798	91.18	FIG01087277: hypothetical protein
SCE1572_2254	YgjD/Kae1/Qri7 family, required for N6-threonylcarbamoyl adenosine t(6)A37 modification in tRNA	bi	sce_1799	93.54	YgjD/Kae1/Qri7 family, required for N6-threonylcarbamoyl adenosine t(6)A37 modification in tRNA
SCE1572_2255	hypothetical protein	bi	sce_1800	86.43	hypothetical protein
SCE1572_2256	conserved hypothetical protein-containing TPR-domains	bi	sce_1801	92.96	conserved hypothetical protein-containing TPR-domains
SCE1572_2257	Conserved protein, with a weak D-galactarate dehydratase/altronate hydrolase domain	uni	sce_6222	47.87	Conserved protein, with a weak D-galactarate dehydratase/altronate hydrolase domain
SCE1572_2258	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_1803	87.63	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_2259	FIG01089242: hypothetical protein	bi	sce_1804	68.42	FIG01089242: hypothetical protein
SCE1572_2260	FIG01086453: hypothetical protein	uni	sce_1071	63.31	FIG01086453: hypothetical protein
SCE1572_2261	WD40-like beta Propeller	bi	sce_1805	92.31	WD40-like beta Propeller
SCE1572_2262	hypothetical protein	bi	sce_1806	79.8	hypothetical protein
SCE1572_2263	CDP-diacylglycerol--serine O-phosphatidyltransferase (EC 2.7.8.8)	bi	sce_1807	96.15	CDP-diacylglycerol--serine O-phosphatidyltransferase (EC 2.7.8.8)
SCE1572_2264	FIG01088615: hypothetical protein	bi	sce_1808	96.24	FIG01088615: hypothetical protein
SCE1572_2265	cytochrome c assembly protein	bi	sce_1809	90.1	cytochrome c assembly protein
SCE1572_2266	Glutamyl-tRNA reductase (EC 1.2.1.70)	bi	sce_1810	87.41	Glutamyl-tRNA reductase (EC 1.2.1.70)
SCE1572_2267	Porphobilinogen deaminase (EC 2.5.1.61)	bi	sce_1811	91.58	Porphobilinogen deaminase (EC 2.5.1.61)
SCE1572_2268	Glycogen branching enzyme, GH-57-type, archaeal (EC 2.4.1.18)	bi	sce_1812	88.83	Glycogen branching enzyme, GH-57-type, archaeal (EC 2.4.1.18)
SCE1572_2269	Efflux transporter, RND family, MFP subunit, AcrA/E family	bi	sce_1813	87.76	Efflux transporter, RND family, MFP subunit, AcrA/E family
SCE1572_2270	RND multidrug efflux transporter; Acriflavin resistance protein	bi	sce_1814	93.79	RND multidrug efflux transporter; Acriflavin resistance protein
SCE1572_2271	Peptidase S1C, Do	bi	sce_1815	89.32	trypsin-like serine protease
SCE1572_2272	protein of unknown function DUF885	bi	sce_1817	89.55	hypothetical protein
SCE1572_2273	protein of unknown function UPF0153	bi	sce_1818	86.29	protein of unknown function UPF0153
SCE1572_2274	hypothetical protein	bi	sce_1819	75.61	hypothetical protein
SCE1572_2275	Peptide chain release factor 2	bi	sce_1820	97.14	Peptide chain release factor 2
SCE1572_2276	Lysyl-tRNA synthetase (class II) (EC 6.1.1.6)	bi	sce_1821	95.29	Lysyl-tRNA synthetase (class II) (EC 6.1.1.6)
SCE1572_2277	Lipoprotein releasing system transmembrane protein LolC	bi	sce_1822	83.75	Lipoprotein releasing system transmembrane protein LolC
SCE1572_2278	Lipoprotein releasing system ATP-binding protein LolD	bi	sce_1823	95.49	Lipoprotein releasing system ATP-binding protein LolD
SCE1572_2279	PROBABLE OXIDOREDUCTASE GMC-TYPE (EC 1.-.-.-)	bi	sce_1824	92.39	PROBABLE OXIDOREDUCTASE GMC-TYPE (EC 1.-.-.-)
SCE1572_2280	Arginine N-succinyltransferase (EC 2.3.1.109)	bi	sce_1826	92.8	Arginine N-succinyltransferase (EC 2.3.1.109)
SCE1572_2281	Shikimate 5-dehydrogenase I gamma (EC 1.1.1.25)	bi	sce_1827	91.9	Shikimate 5-dehydrogenase I gamma (EC 1.1.1.25)
SCE1572_2282	Signal peptidase I (EC 3.4.21.89)	bi	sce_1828	90.16	Signal peptidase I (EC 3.4.21.89)
SCE1572_2283	Cell division protein FtsH (EC 3.4.24.-)	bi	sce_1829	87.31	Cell division protein FtsH (EC 3.4.24.-)
SCE1572_2284	Basic proline-rich protein	bi	sce_1831	81.76	Basic proline-rich protein
SCE1572_2285	hypothetical protein	bi	sce_1832	96.25	hypothetical protein
SCE1572_2286	RNA polymerase sigma factor for flagellar operon	bi	sce_1833	90.09	RNA polymerase sigma factor for flagellar operon
SCE1572_2287	Very large tegument protein	bi	sce_1834	87.14	Very large tegument protein
SCE1572_2288	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_1835	96.46	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_2289	hypothetical protein	bi	sce_1836	80	hypothetical protein
SCE1572_2290	Bacterioferritin (BFR)	bi	sce_1837	92.95	Bacterioferritin (BFR)
SCE1572_2291	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_1838	98.23	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_2292	DNA-binding response regulator KdpE	bi	sce_1840	94.4	DNA-binding response regulator KdpE
SCE1572_2293	S-adenosylmethionine:tRNA ribosyltransferase-isomerase (EC 5.-.-.-)	bi	sce_1841	90.37	S-adenosylmethionine:tRNA ribosyltransferase-isomerase (EC 5.-.-.-)

SCE1572_2294	tRNA-guanine transglycosylase (EC 2.4.2.29)	bi	sce_1842	95.96	tRNA-guanine transglycosylase (EC 2.4.2.29)
SCE1572_2295	hypothetical protein	-		0	
SCE1572_2296	response regulator receiver protein	bi	sce_1843	96.28	DNA-binding response regulator
SCE1572_2297	putative Fe-S oxidoreductase	bi	sce_1844	71.16	FIG01089683: hypothetical protein
SCE1572_2298	B12 binding domain of Methylmalonyl-CoA mutase (EC 5.4.99.2)	bi	sce_1845	97.01	B12 binding domain of Methylmalonyl-CoA mutase (EC 5.4.99.2)
SCE1572_2299	Cell division protein MraZ	bi	sce_1846	97.37	Cell division protein MraZ
SCE1572_2300	rRNA small subunit methyltransferase H	bi	sce_1847	92.7	rRNA small subunit methyltransferase H
SCE1572_2301	hypothetical protein	bi	sce_1848	91.45	hypothetical protein
SCE1572_2302	Cell division protein FtsI [Peptidoglycan synthetase] (EC 2.4.1.129)	bi	sce_1849	93.38	Cell division protein FtsI [Peptidoglycan synthetase] (EC 2.4.1.129)
SCE1572_2303	UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligase (EC 6.3.2.13)	bi	sce_1850	91.01	UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligase (EC 6.3.2.13)
SCE1572_2304	Phospho-N-acetylmuramoyl-pentapeptide-transferase (EC 2.7.8.13)	bi	sce_1851	97.87	Phospho-N-acetylmuramoyl-pentapeptide-transferase (EC 2.7.8.13)
SCE1572_2305	UDP-N-acetylmuramoylalanine--D-glutamate ligase (EC 6.3.2.9)	bi	sce_1852	90.97	UDP-N-acetylmuramoylalanine--D-glutamate ligase (EC 6.3.2.9)
SCE1572_2306	Cell division protein FtsW	bi	sce_1853	89.73	Cell division protein FtsW
SCE1572_2307	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase (	bi	sce_1854	92.1	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase (EC 2.
SCE1572_2308	UDP-N-acetylmuramate--alanine ligase (EC 6.3.2.8)	bi	sce_1855	96.58	UDP-N-acetylmuramate--alanine ligase (EC 6.3.2.8)
SCE1572_2309	Cell division protein FtsQ	bi	sce_1856	86.73	Cell division protein FtsQ
SCE1572_2310	Cell division protein FtsA	bi	sce_1857	97.94	Cell division protein FtsA
SCE1572_2311	Cell division protein FtsZ (EC 3.4.24.-)	bi	sce_1858	92.76	Cell division protein FtsZ (EC 3.4.24.-)
SCE1572_2312	Chaperone protein DnaJ	bi	sce_1859	96.4	Chaperone protein DnaJ
SCE1572_2313	hypothetical protein	bi	sce_1860	89.79	hypothetical protein
SCE1572_2314	FIG01088969: hypothetical protein	bi	sce_1861	84.3	FIG01088969: hypothetical protein
SCE1572_2315	protein of unknown function DUF329	bi	sce_1862	82.22	hypothetical protein
SCE1572_2316	Serine protease precursor MucD/AlgY associated with sigma factor RpoE	bi	sce_1863	83.54	Serine protease precursor MucD/AlgY associated with sigma factor RpoE
SCE1572_2317	FIG01086853: hypothetical protein	bi	sce_1864	77.3	hypothetical protein
SCE1572_2318	Inactive homolog of metal-dependent proteases, putative molecular chaperone	bi	sce_1865	83.15	Inactive homolog of metal-dependent proteases, putative molecular chaperone
SCE1572_2319	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	bi	sce_1866	89.36	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases
SCE1572_2320	TPR domain protein	bi	sce_1867	88.68	TPR domain protein
SCE1572_2321	Hypothetical protein	bi	sce_1868	97.92	Hypothetical protein
SCE1572_2322	DNA recombination and repair protein RecO	bi	sce_1869	92.05	DNA recombination and repair protein RecO
SCE1572_2323	FIG01088242: hypothetical protein	bi	sce_1870	91.54	FIG01088242: hypothetical protein
SCE1572_2324	Mll5389 protein	bi	sce_1871	84.43	Mll5389 protein
SCE1572_2325	Ferrochelatase, protoheme ferro-lyase (EC 4.99.1.1)	bi	sce_1872	90	Ferrochelatase, protoheme ferro-lyase (EC 4.99.1.1)
SCE1572_2326	Short-chain dehydrogenase/reductase SDR	bi	sce_1873	80	Short-chain dehydrogenase/reductase SDR
SCE1572_2327	TPR Domain containing protein	bi	sce_1875	92.21	Tetratricopeptide TPR_2 repeat protein
SCE1572_2328	hypothetical protein	bi	sce_1877	88.82	hypothetical protein
SCE1572_2329	FIG01087871: hypothetical protein	bi	sce_1878	85.48	FIG01087871: hypothetical protein
SCE1572_2330	FIG01085537: hypothetical protein	bi	sce_1879	89.82	FIG01085537: hypothetical protein
SCE1572_2331	hypothetical protein	bi	sce_10208	45.27	FIG01084875: hypothetical protein
SCE1572_2332	hypothetical protein	bi	sce_10207	47.51	hypothetical protein
SCE1572_2333	Formate hydrogenlyase transcriptional activator	bi	sce_1883	96.3	Formate hydrogenlyase transcriptional activator
SCE1572_2334	hypothetical protein	uni	sce_8748	35.96	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_2335	hypothetical protein	bi	sce_1885	77.83	hypothetical protein
SCE1572_2336	hypothetical protein	bi	sce_1886	83.87	hypothetical protein
SCE1572_2337	hypothetical protein	bi	sce_1887	91.26	hypothetical protein
SCE1572_2338	Cell binding factor 2 precursor	bi	sce_1888	91.06	Cell binding factor 2 precursor
SCE1572_2339	FIG01087318: hypothetical protein	bi	sce_1889	86.94	FIG01087318: hypothetical protein
SCE1572_2340	hypothetical protein	-		0	
SCE1572_2341	FIG01086761: hypothetical protein	bi	sce_1890	92.34	FIG01086761: hypothetical protein
SCE1572_2342	Pterin-4-alpha-carbinolamine dehydratase (EC 4.2.1.96)	bi	sce_1891	88.66	Pterin-4-alpha-carbinolamine dehydratase (EC 4.2.1.96)
SCE1572_2343	hypothetical protein	bi	sce_1893	95.68	hypothetical protein
SCE1572_2344	FIG01089220: hypothetical protein	bi	sce_1894	86.32	FIG01089220: hypothetical protein
SCE1572_2345	tRNA (cytosine34-2'-O-)-methyltransferase (EC 2.1.1.-)	bi	sce_1895	96.51	tRNA (cytosine34-2'-O-)-methyltransferase (EC 2.1.1.-)
SCE1572_2346	hypothetical protein	bi	sce_1896	88.89	hypothetical protein
SCE1572_2347	CarD-like transcriptional regulator	bi	sce_1897	100	CarD-like transcriptional regulator
SCE1572_2348	Phosphatase, Ppx/GppA family	bi	sce_1898	90.68	Phosphatase, Ppx/GppA family
SCE1572_2349	Flagellar motor rotation protein MotB	bi	sce_1899	97.45	Flagellar motor rotation protein MotB
SCE1572_2350	hypothetical protein	bi	sce_1900	96.46	Histone H1
SCE1572_2351	hypothetical protein	bi	sce_1902	97.2	hypothetical protein
SCE1572_2352	Dihydrolipoamide succinyltransferase component (E2) of 2-oxoglutarate dehydrogenase complex (EC 2.3.1.61) / 2-oxoglutarat	bi	sce_1903	88.24	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_2353	hypothetical protein	bi	sce_1904	71.6	hypothetical protein
SCE1572_2354	HNH endonuclease family protein	bi	sce_1905	93.21	HNH endonuclease family protein
SCE1572_2355	DNA polymerase III epsilon subunit (EC 2.7.7.7)	bi	sce_1906	94.34	DNA polymerase III epsilon subunit (EC 2.7.7.7)
SCE1572_2356	Preprotein translocase subunit SecG (TC 3.A.5.1.1)	bi	sce_1907	89.42	Preprotein translocase subunit SecG (TC 3.A.5.1.1)
SCE1572_2357	Phosphopantetheine adenylyltransferase (EC 2.7.7.3)	bi	sce_1908	96.36	Phosphopantetheine adenylyltransferase (EC 2.7.7.3)
SCE1572_2358	FIG01087039: hypothetical protein	bi	sce_1909	90.31	FIG01087039: hypothetical protein
SCE1572_2359	Serine/threonine protein kinase PrkC, regulator of stationary phase	bi	sce_1910	87.5	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_2360	hypothetical protein	-		0	
SCE1572_2361	Poly(A) polymerase (EC 2.7.7.19)	bi	sce_1912	97.23	Poly(A) polymerase (EC 2.7.7.19)
SCE1572_2362	FIG01085896: hypothetical protein	bi	sce_1913	89.14	FIG01085896: hypothetical protein
SCE1572_2363	NUDIX hydrolase	bi	sce_1914	84.44	NUDIX hydrolase
SCE1572_2364	hypothetical protein	bi	sce_1915	71.28	hypothetical protein
SCE1572_2365	transcriptional regulator, TetR family	bi	sce_1916	86.04	transcriptional regulator, TetR family
SCE1572_2366	Cysteine protease	bi	sce_1917	93.4	hypothetical protein
SCE1572_2367	hypothetical protein	-		0	
SCE1572_2368	FIG01087505: hypothetical protein	bi	sce_1918	79.89	FIG01087505: hypothetical protein
SCE1572_2369	hypothetical protein	bi	sce_1919	91.78	hypothetical protein
SCE1572_2370	hypothetical protein	bi	sce_1920	77.68	FIG01084943: hypothetical protein
SCE1572_2371	Adenylate cyclase (EC 4.6.1.1)	bi	sce_1921	89.6	Adenylate cyclase (EC 4.6.1.1)
SCE1572_2372	FIG01086442: hypothetical protein	bi	sce_1922	94.02	FIG01086442: hypothetical protein
SCE1572_2373	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_1923	88.62	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_2374	response regulator receiver domain protein (CheY-like)	bi	sce_1925	96.75	response regulator receiver domain protein (CheY-like)
SCE1572_2375	hypothetical protein	bi	sce_1926	80.87	hypothetical protein
SCE1572_2376	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_1927	82.22	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_2377	hypothetical protein	bi	sce_1928	68.3	hypothetical protein
SCE1572_2378	hypothetical protein	bi	sce_1929	84.62	hypothetical protein
SCE1572_2379	Transcriptional regulator, TetR family	bi	sce_1930	83.27	Transcriptional regulator, TetR family
SCE1572_2380	Uracil-DNA glycosylase, putative family 6	bi	sce_1931	90.54	Uracil-DNA glycosylase, putative family 6
SCE1572_2381	Kup system potassium uptake protein	bi	sce_1932	92.59	Kup system potassium uptake protein
SCE1572_2382	Citrate synthase (si) (EC 2.3.3.1)	bi	sce_1933	93.08	Citrate synthase (si) (EC 2.3.3.1)
SCE1572_2383	Citrate synthase (si) (EC 2.3.3.1)	bi	sce_1935	89.69	Citrate synthase (si) (EC 2.3.3.1)
SCE1572_2384	RecA protein	bi	sce_1937	92.17	RecA protein
SCE1572_2385	DNA polymerase-like protein PA0670	bi	sce_1938	90.91	DNA polymerase-like protein PA0670
SCE1572_2386	DNA polymerase III alpha subunit (EC 2.7.7.7)	bi	sce_1939	92.13	DNA polymerase III alpha subunit (EC 2.7.7.7)
SCE1572_2387	multi-sensor hybrid histidine kinase	bi	sce_1940	85.04	multi-sensor hybrid histidine kinase
SCE1572_2388	hypothetical protein	-		0	
SCE1572_2389	hypothetical protein	bi	sce_1941	82.35	hypothetical protein
SCE1572_2390	Chromosome partition protein smc	bi	sce_1942	96.11	Chromosome partition protein smc
SCE1572_2391	hypothetical protein	-		0	
SCE1572_2392	Chorismate mutase I (EC 5.4.99.5) / Prephenate dehydratase (EC 4.2.1.51)	bi	sce_1945	95.32	Chorismate mutase I (EC 5.4.99.5) / Prephenate dehydratase (EC 4.2.1.51)
SCE1572_2393	FIG01087408: hypothetical protein	bi	sce_1946	90.14	FIG01087408: hypothetical protein
SCE1572_2394	ATP-dependent helicase HrpB	bi	sce_1947	90.95	ATP-dependent helicase HrpB
SCE1572_2395	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7	bi	sce_1948	88.39	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_2396	Putative teichuronic acid biosynthesis glycosyl transferase TuaC	bi	sce_1950	83.1	Putative teichuronic acid biosynthesis glycosyl transferase TuaC
SCE1572_2397	SSU ribosomal protein S21p	bi	sce_1951	100	SSU ribosomal protein S21p
SCE1572_2398	Peroxide stress regulator PerR, FUR family	bi	sce_1952	88.76	Peroxide stress regulator PerR, FUR family
SCE1572_2399	Rubrerythrin	bi	sce_1953	97.18	Rubrerythrin
SCE1572_2400	Fe-S oxidoreductase-like protein in Rubrerythrin cluster	bi	sce_1954	94.46	Fe-S oxidoreductase-like protein in Rubrerythrin cluster
SCE1572_2401	Hypothetical protein i Rubrerythrin cluster	bi	sce_1955	90.62	Hypothetical protein i Rubrerythrin cluster
SCE1572_2402	Putative 4-hydroxybenzoyl CoA thioesterase (EC 3.1.2.23)	bi	sce_1956	89.12	thioesterase superfamily protein
SCE1572_2403	phospholipase D. Active site motif domain protein	bi	sce_1957	94.31	phospholipase domain protein
SCE1572_2404	Ribose 5-phosphate isomerase A (EC 5.3.1.6)	bi	sce_1958	84.48	Ribose 5-phosphate isomerase A (EC 5.3.1.6)
SCE1572_2405	Argininosuccinate lyase (EC 4.3.2.1)	bi	sce_1959	97.35	Argininosuccinate lyase (EC 4.3.2.1)
SCE1572_2406	hypothetical protein	bi	sce_1960	93.15	FIG01088531: hypothetical protein
SCE1572_2407	Isopentenyl-diphosphate delta-isomerase, FMN-dependent (EC 5.3.3.2)	bi	sce_1961	91.06	Isopentenyl-diphosphate delta-isomerase, FMN-dependent (EC 5.3.3.2)
SCE1572_2408	GAF domain protein	bi	sce_1962	98.46	GAF domain protein
SCE1572_2409	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY	bi	sce_1963	100	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY
SCE1572_2410	FHA/GGDEF domain protein	bi	sce_1964	95.16	hypothetical protein
SCE1572_2411	Diadenosine tetraphosphatase	bi	sce_1965	91.97	Diadenosine tetraphosphatase
SCE1572_2412	Glutamate-ammonia-ligase adenylyltransferase (EC 2.7.7.42)	bi	sce_1966	91.04	Glutamate-ammonia-ligase adenylyltransferase (EC 2.7.7.42)
SCE1572_2413	FIG01089130: hypothetical protein	bi	sce_1967	80	FIG01089130: hypothetical protein
SCE1572_2414	FIG01088155: hypothetical protein	bi	sce_1968	84.52	FIG01088155: hypothetical protein
SCE1572_2415	hypothetical protein	bi	sce_1969	78.26	hypothetical protein
SCE1572_2416	hypothetical protein	bi	sce_1970	59.55	hypothetical protein
SCE1572_2417	hypothetical protein	-		0	
SCE1572_2418	keratin associated protein	bi	sce_1971	43.53	keratin associated protein
SCE1572_2419	UPF0229 protein YeaH	bi	sce_1973	98.37	UPF0229 protein YeaH
SCE1572_2420	Stage V sporulation protein involved in spore cortex synthesis (SpoVR)	bi	sce_1974	96.35	Stage V sporulation protein involved in spore cortex synthesis (SpoVR)
SCE1572_2421	TPR domain protein	bi	sce_1975	83.09	TPR repeat:Sel1-like repeat:Sel1-like repeat
SCE1572_2422	hypothetical protein	-		0	
SCE1572_2423	hypothetical protein	bi	sce_1976	65.25	hypothetical protein
SCE1572_2424	methyltransferase type 11	bi	sce_1977	66.41	methyltransferase type 11
SCE1572_2425	Serine phosphatase RsbU, regulator of sigma subunit	bi	sce_1978	60.79	Serine phosphatase RsbU, regulator of sigma subunit
SCE1572_2426	conserved hypothetical protein	bi	sce_1979	100	conserved hypothetical protein
SCE1572_2427	Serine phosphatase RsbU, regulator of sigma subunit	bi	sce_1980	98.78	Serine phosphatase RsbU, regulator of sigma subunit
SCE1572_2428	hypothetical protein	bi	sce_1981	98.77	hypothetical protein
SCE1572_2429	FIG01086628: hypothetical protein	bi	sce_1982	100	FIG01086628: hypothetical protein
SCE1572_2430	RsbR, positive regulator of sigma-B	bi	sce_1983	90.02	RsbR, positive regulator of sigma-B
SCE1572_2431	transcriptional regulator, MarR family	bi	sce_1985	96.08	transcriptional regulator, MarR family
SCE1572_2432	hypothetical protein	bi	sce_1986	92.31	hypothetical protein
SCE1572_2433	Methylglutaconyl-CoA hydratase (EC 4.2.1.18)	bi	sce_1987	88.89	Methylglutaconyl-CoA hydratase (EC 4.2.1.18)
SCE1572_2434	Methylmalonyl-CoA decarboxylase, alpha chain (EC 4.1.1.41); Acetyl-coenzyme A carboxyl transferase alpha chain (EC 6.4.1	bi	sce_1988	96.55	Methylmalonyl-CoA decarboxylase, alpha chain (EC 4.1.1.41); Acetyl-coenzyme A carboxyl transferase alpha chain (EC 6.4.1.2) /
SCE1572_2435	Large tegument protein	bi	sce_1989	76.52	Large tegument protein
SCE1572_2436	Thiamin-phosphate pyrophosphorylase (EC 2.5.1.3)	bi	sce_1990	80.25	Thiamin-phosphate pyrophosphorylase (EC 2.5.1.3)
SCE1572_2437	hypothetical protein	bi	sce_1991	83.58	hypothetical protein
SCE1572_2438	DNA polymerase III delta prime subunit (EC 2.7.7.7)	bi	sce_1992	92.15	DNA polymerase III delta prime subunit (EC 2.7.7.7)
SCE1572_2439	NAD-dependent epimerase/dehydratase	bi	sce_1993	86.76	NAD-dependent epimerase/dehydratase
SCE1572_2440	Coenzyme F390 synthetase	bi	sce_1994	93.63	Coenzyme F390 synthetase
SCE1572_2441	FHA domain protein	bi	sce_1995	88.26	serine/threonine protein kinase
SCE1572_2442	FIG01087771: hypothetical protein	bi	sce_1997	77.89	FIG01087771: hypothetical protein
SCE1572_2443	hypothetical protein	-		0	
SCE1572_2444	Nucleoside-diphosphate-sugar epimerases	bi	sce_1996	90.88	Nucleoside-diphosphate-sugar epimerases
SCE1572_2445	hypothetical protein	-		0	
SCE1572_2446	FIG01086574: hypothetical protein	bi	sce_1998	78.53	FIG01086574: hypothetical protein
SCE1572_2447	cytochrome B561	-		0	
SCE1572_2448	Catalase (EC 1.11.1.6)	uni	sce_2350	25.76	Catalase (EC 1.11.1.6)
SCE1572_2449	RNA polymerase sigma-54 factor RpoN	uni	sce_9532	35.53	RNA polymerase sigma factor RpoE
SCE1572_2450	Transmembrane regulator protein PrtR	uni	sce_9531	31.09	PUTATIVE TRANSMEMBRANE PROTEIN
SCE1572_2451	hypothetical protein	-		0	
SCE1572_2452	peptidase S1 and S6, chymotrypsin/Hap	uni	sce_7618	73.72	hydrolase
SCE1572_2453	FIG01087988: hypothetical protein	bi	sce_1999	75.26	FIG01087988: hypothetical protein
SCE1572_2454	GTP-binding protein Obg	bi	sce_2000	93.24	GTP-binding protein Obg
SCE1572_2455	Two-component sensor histidine kinase	bi	sce_2001	93.89	Two-component sensor histidine kinase
SCE1572_2456	hypothetical protein	bi	sce_2002	97.64	hypothetical protein
SCE1572_2457	hypothetical protein	-		0	

SCE1572_2458	FIG01086106: hypothetical protein	bi	sce_2003	94.89	FIG01086106: hypothetical protein
SCE1572_2459	hemolysin-type calcium binding protein	bi	sce_2004	72.85	hemolysin-type calcium binding protein
SCE1572_2460	erythrocyte membrane protein 1 (PfEMP1)	uni	sce_4564	65.69	endo alpha-1,4 polygalactosaminidase precusor
SCE1572_2461	hypothetical protein	bi	sce_6427	83.16	hypothetical protein
SCE1572_2462	FIG01086728: hypothetical protein	uni	sce_6265	45.3	Gll0995 protein
SCE1572_2463	hypothetical protein	-		0	
SCE1572_2464	Inositol-1-phosphate synthase (EC 5.5.1.4)	bi	sce_2005	92.68	Inositol-1-phosphate synthase (EC 5.5.1.4)
SCE1572_2465	FIG01086453: hypothetical protein	uni	sce_1227	65.22	FIG01086453: hypothetical protein
SCE1572_2466	hypothetical protein	bi	sce_2006	80.05	hypothetical protein
SCE1572_2467	hypothetical protein	bi	sce_2007	87.68	hypothetical protein
SCE1572_2468	FIG01088594: hypothetical protein	bi	sce_2010	86.49	FIG01088594: hypothetical protein
SCE1572_2469	PBS lyase HEAT domain protein repeat-containing protein	uni	sce_2011	71.08	PBS lyase HEAT domain protein repeat-containing protein
SCE1572_2470	PBS lyase HEAT domain protein repeat-containing protein	bi	sce_2011	88.14	PBS lyase HEAT domain protein repeat-containing protein
SCE1572_2471	FIG01086827: hypothetical protein	bi	sce_2012	92.52	FIG01086827: hypothetical protein
SCE1572_2472	hypothetical protein	bi	sce_2013	92.59	hypothetical protein
SCE1572_2473	Phosphoribosylaminoimidazole carboxylase catalytic subunit (EC 4.1.1.21)	bi	sce_2014	94.09	Phosphoribosylaminoimidazole carboxylase catalytic subunit (EC 4.1.1.21)
SCE1572_2474	Phosphoribosylaminoimidazole carboxylase ATPase subunit (EC 4.1.1.21)	bi	sce_2015	91.04	Phosphoribosylaminoimidazole carboxylase ATPase subunit (EC 4.1.1.21)
SCE1572_2475	FIG01088601: hypothetical protein	bi	sce_2016	79.79	Sortilin-related receptor precursor
SCE1572_2476	hypothetical protein	bi	sce_2017	82.91	hypothetical protein
SCE1572_2477	FIG01088972: hypothetical protein	bi	sce_2018	87.01	FIG01088972: hypothetical protein
SCE1572_2478	FIG01085548: hypothetical protein	bi	sce_2019	83.33	FIG01085548: hypothetical protein
SCE1572_2479	hypothetical protein	bi	sce_2020	89.82	hypothetical protein
SCE1572_2480	hypothetical protein	-		0	
SCE1572_2481	Endo-1,4-beta-glucanase	bi	sce_7593	76.47	Endo-1,4-beta-glucanase
SCE1572_2482	hypothetical protein	bi	sce_2042	84.83	FIG01085009: hypothetical protein
SCE1572_2483	hypothetical protein	-		0	
SCE1572_2484	hypothetical protein	-		0	
SCE1572_2485	hypothetical protein	-		0	
SCE1572_2486	FIG01089507: hypothetical protein	bi	sce_2056	69.84	FIG01089507: hypothetical protein
SCE1572_2487	FIG01085792: hypothetical protein	bi	sce_2057	79.94	FIG01085792: hypothetical protein
SCE1572_2488	hypothetical protein	-		0	
SCE1572_2489	Os05g0517900	bi	sce_2059	73.03	hypothetical protein
SCE1572_2490	Cytochrome P450 family protein	bi	sce_2066	80.85	Cytochrome P450 family protein
SCE1572_2491	hypothetical protein	-		0	
SCE1572_2492	hypothetical protein	bi	sce_253	25.94	FOG: WD40 repeat
SCE1572_2493	hypothetical protein	-		0	
SCE1572_2494	hypothetical protein	bi	sce_2073	85.75	glycosyl transferase, family 28
SCE1572_2495	OmpA family protein	bi	sce_2074	93.24	OmpA family protein
SCE1572_2496	serine/threonine protein kinase	bi	sce_8756	39.32	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)
SCE1572_2497	L-serine dehydratase (EC 4.3.1.17)	bi	sce_2075	93.83	L-serine dehydratase (EC 4.3.1.17)
SCE1572_2498	hypothetical protein	-		0	
SCE1572_2499	Glycoprotein gp2	bi	sce_2419	87.04	Glycoprotein gp2
SCE1572_2500	putative lipoprotein	bi	sce_2418	88.58	FIG00817277: hypothetical protein
SCE1572_2501	putative cytochrome P450 hydroxylase	uni	sce_8024	47.13	putative cytochrome P450 hydroxylase
SCE1572_2502	hypothetical protein	-		0	
SCE1572_2503	Poly(3-hydroxyalkanoate) depolymerase (EC 3.1.1.-)	bi	sce_7548	84.62	Poly(3-hydroxyalkanoate) depolymerase (EC 3.1.1.-)
SCE1572_2504	hypothetical protein	bi	sce_3033	84.83	hypothetical protein
SCE1572_2505	ubiquinone/menaquinone biosynthesis methyltransferase(EC:2.1.1.-)	bi	sce_3034	84.19	ubiquinone/menaquinone biosynthesis methyltransferase(EC:2.1.1.-)
SCE1572_2506	Methionine synthase, vitamin-B12 independent	-		0	
SCE1572_2507	hypothetical protein	-		0	
SCE1572_2508	4-hydroxybenzoate transporter	uni	sce_9046	27.98	Glucose/mannose:H symporter GlcP
SCE1572_2509	hypothetical protein	uni	sce_3000	44.58	conserved hypothetical protein
SCE1572_2510	L-fuconate dehydratase (EC 4.2.1.68)	bi	sce_8785	53.57	L-fuconate dehydratase (EC 4.2.1.68)
SCE1572_2511	FIG01089335: hypothetical protein	bi	sce_2094	83.01	FIG01089335: hypothetical protein
SCE1572_2512	Transcriptional regulator, TetR family	uni	sce_5426	32.42	Transcriptional regulator, TetR family
SCE1572_2513	hypothetical protein	-		0	
SCE1572_2514	hypothetical protein	-		0	
SCE1572_2515	hypothetical protein	-		0	
SCE1572_2516	hypothetical protein	-		0	
SCE1572_2517	hypothetical protein	bi	sce_8744	78.72	hypothetical protein
SCE1572_2518	serine/threonine-protein kinase Pkn1(EC:2.7.11.1)	uni	sce_7547	49.1	serine/threonine protein kinase
SCE1572_2519	cytochrome P450	bi	sce_2437	80.65	cytochrome P450
SCE1572_2520	Phenylpropionate dioxygenase and related ring-hydroxylating dioxygenases, large terminal subunit	bi	sce_2097	88.27	Rieske (2Fe-2S) domain protein
SCE1572_2521	FIG01085239: hypothetical protein	bi	sce_2098	78.28	FIG01085239: hypothetical protein
SCE1572_2522	hypothetical protein	bi	sce_2099	91.13	hypothetical protein
SCE1572_2523	hypothetical protein	uni	sce_2100	66.15	hypothetical protein
SCE1572_2524	hypothetical protein	bi	sce_2100	71.64	hypothetical protein
SCE1572_2525	hypothetical protein	bi	sce_2101	87.68	PPE family protein
SCE1572_2526	Gamma-butyrobetaine,2-oxoglutarate dioxygenase(EC:1.14.11.1)	bi	sce_2102	88.56	hypothetical protein
SCE1572_2527	cellulosome enzyme, dockerin type I	bi	sce_3701	86.5	cellulosome enzyme, dockerin type I
SCE1572_2528	hypothetical protein	uni	sce_2102	73.21	hypothetical protein
SCE1572_2529	hypothetical protein	uni	sce_924	54.72	Gll1489 protein
SCE1572_2530	hypothetical protein	-		0	
SCE1572_2531	hypothetical protein	-		0	
SCE1572_2532	Transcriptional regulator, TetR family	uni	sce_9220	31.35	Transcriptional regulator, TetR family
SCE1572_2533	PhnB protein; putative DNA binding 3-demethylubiquinone-9 3-methyltransferase domain protein	uni	sce_7184	31.11	glyoxalase family protein
SCE1572_2534	hypothetical protein	-		0	
SCE1572_2535	hypothetical protein	-		0	
SCE1572_2536	NADP oxidoreductase, coenzyme F420-dependent	-		0	
SCE1572_2537	hypothetical protein	bi	sce_2104	88.73	hypothetical protein
SCE1572_2538	hypothetical protein	bi	sce_2118	88.38	FIG01085755: hypothetical protein
SCE1572_2539	hypothetical protein	bi	sce_2119	89.37	hypothetical protein
SCE1572_2540	hypothetical protein	-		0	
SCE1572_2541	hypothetical protein	-		0	
SCE1572_2542	hypothetical protein	-		0	
SCE1572_2543	Conserved domain protein	bi	sce_2126	81.5	Conserved domain protein
SCE1572_2544	High-affnity carbon uptake protein Hat/HatR	uni	sce_5086	45.36	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins
SCE1572_2545	hypothetical protein	-		0	
SCE1572_2546	hypothetical protein	-		0	
SCE1572_2547	hypothetical protein	bi	sce_2128	80.58	hypothetical protein
SCE1572_2548	RsbR, positive regulator of sigma-B	uni	sce_828	44.03	RsbR, positive regulator of sigma-B
SCE1572_2549	hypothetical protein	-		0	
SCE1572_2550	hypothetical protein	-		0	
SCE1572_2551	RNA-directed DNA polymerase from retron -RT(EC:2.7.7.49)	bi	sce_2130	87.68	RNA-directed DNA polymerase from retron -RT(EC:2.7.7.49)
SCE1572_2552	SWIM zinc finger domain protein	uni	sce_2996	29.07	hypothetical protein
SCE1572_2553	FIG00838574: hypothetical protein	bi	sce_2131	83.8	FIG00838574: hypothetical protein
SCE1572_2554	hypothetical protein	bi	sce_2132	88.12	hypothetical protein
SCE1572_2555	WGR domain family	bi	sce_2133	86.67	WGR domain protein
SCE1572_2556	hypothetical protein	uni	sce_5560	62.16	FIG01087606: hypothetical protein
SCE1572_2557	Rhs family carbohydrate-binding protein	uni	sce_3970	58.86	Rhs family carbohydrate-binding protein
SCE1572_2558	Membrane protein involved in colicin uptake-like protein	uni	sce_3968	36.5	Putative Ferrodoxin
SCE1572_2559	hypothetical protein	-		0	
SCE1572_2560	FIG01088620: hypothetical protein	bi	sce_2134	84.04	FIG01088620: hypothetical protein
SCE1572_2561	hypothetical protein	bi	sce_2135	84.25	hypothetical protein
SCE1572_2562	TonB family protein / TonB-dependent receptor	bi	sce_2136	80.75	TonB family protein / TonB-dependent receptor
SCE1572_2563	sugar-non-specific nuclease NucA homolog	bi	sce_2137	85.58	sugar-non-specific nuclease NucA homolog
SCE1572_2564	nuclease A inhibitor-like	bi	sce_2138	78.83	sugar-non-specific nuclease inhibitor NuiA homolog
SCE1572_2565	Alpha-glucosidase (EC 3.2.1.20)	uni	sce_9663	55.88	FIG01085909: hypothetical protein
SCE1572_2566	hypothetical protein	-		0	
SCE1572_2567	Fructose-bisphosphate aldolase class II (EC 4.1.2.13)	bi	sce_2139	94.96	Fructose-bisphosphate aldolase class II (EC 4.1.2.13)
SCE1572_2568	FIG01089074: hypothetical protein	bi	sce_2140	72.99	FIG01089074: hypothetical protein
SCE1572_2569	hypothetical protein	bi	sce_2141	56.25	hypothetical protein
SCE1572_2570	hypothetical protein	bi	sce_2143	63.38	hypothetical protein
SCE1572_2571	hypothetical protein	-		0	
SCE1572_2572	hypothetical protein	uni	sce_3976	30.65	TPR repeat
SCE1572_2573	hypothetical protein	bi	sce_2144	89.68	hypothetical protein
SCE1572_2574	hypothetical protein	bi	sce_2145	76.96	hypothetical protein
SCE1572_2575	FIG01088923: hypothetical protein	bi	sce_2146	89.01	FIG01088923: hypothetical protein
SCE1572_2576	Beta-lactamase (EC 3.5.2.6)	-		0	
SCE1572_2577	Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain	bi	sce_2148	64.42	Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain
SCE1572_2578	Large tegument protein	bi	sce_2156	80.38	Large tegument protein
SCE1572_2579	hypothetical protein	uni	sce_817	38.69	hypothetical protein
SCE1572_2580	POSSIBLE TRANSPOSASE	uni	sce_7501	89.74	hypothetical protein
SCE1572_2581	hypothetical protein	bi	sce_2162	82.74	hypothetical protein
SCE1572_2582	hypothetical protein	-		0	
SCE1572_2583	hypothetical protein	uni	sce_6225	95.41	hypothetical protein
SCE1572_2584	Mobile element protein	uni	sce_7431	39.84	reverse transcriptase/maturase family protein
SCE1572_2585	hypothetical protein	bi	sce_6225	97.32	hypothetical protein
SCE1572_2586	PUTATIVE TRANSPOSASE [SECOND PART]	uni	sce_6226	91.76	Integrase, catalytic region
SCE1572_2587	hypothetical protein	bi	sce_6227	86.36	hypothetical protein
SCE1572_2588	Serine/threonine protein kinase	bi	sce_3750	83.69	serine/threonine protein kinase with WD40 repeats
SCE1572_2589	sigma-54 dependent DNA-binding response regulator	bi	sce_6703	74.9	sigma-54 dependent DNA-binding response regulator
SCE1572_2590	Probable serine/threonine-protein kinase PknB	bi	sce_9769	50.26	serine/threonine protein kinase
SCE1572_2591	hypothetical protein	uni	sce_9768	35.58	FIG01085203: hypothetical protein
SCE1572_2592	hypothetical protein	-		0	
SCE1572_2593	hypothetical protein	-		0	
SCE1572_2594	RtcB-like protein	bi	sce_2174	94.04	RtcB-like protein
SCE1572_2595	FIG01086549: hypothetical protein	bi	sce_5307	77.44	FIG01086549: hypothetical protein
SCE1572_2596	Putative IS1492 transposase, TnpA1	-		0	
SCE1572_2597	hypothetical protein	uni	sce_6225	94.32	hypothetical protein
SCE1572_2598	hypothetical protein	uni	sce_6226	90.87	Integrase, catalytic region
SCE1572_2599	Rhs protein	uni	sce_4725	46.06	FIG01086549: hypothetical protein
SCE1572_2600	hypothetical protein	-		0	
SCE1572_2601	hypothetical protein	-		0	
SCE1572_2602	hypothetical protein	-		0	
SCE1572_2603	hypothetical protein	-		0	
SCE1572_2604	RNA:NAD 2'-phosphotransferase	bi	sce_2186	85.23	RNA:NAD 2'-phosphotransferase
SCE1572_2605	LysR family transcriptional regulator YbhD	bi	sce_2187	89.74	LysR family transcriptional regulator YbhD
SCE1572_2606	1,4-alpha-glucan branching enzyme (EC 2.4.1.18)	bi	sce_2188	73.64	hypothetical protein
SCE1572_2607	hypothetical protein	uni	sce_149	38.08	hypothetical protein
SCE1572_2608	predicted protein	bi	sce_2189	81.22	hypothetical protein-transmembrane region and signal peptide prediction
SCE1572_2609	hypothetical protein	bi	sce_2190	81.82	hypothetical protein
SCE1572_2610	FIG01085708: hypothetical protein	bi	sce_2192	89.47	FIG01085708: hypothetical protein
SCE1572_2611	hypothetical protein	bi	sce_2198	26.33	hypothetical protein
SCE1572_2612	Cellulose biosynthesis protein	bi	sce_2195	84.45	Cellulose biosynthesis protein
SCE1572_2613	Putative outer membrane lipoprotein	bi	sce_2196	87.69	hypothetical protein
SCE1572_2614	protein of unknown function DUF81	bi	sce_2199	90.94	protein of unknown function DUF81
SCE1572_2615	FIG01089294: hypothetical protein	bi	sce_2200	81.7	FIG01089294: hypothetical protein
SCE1572_2616	Lipid A export ATP-binding/permease protein MsbA (EC 3.6.3.25)	uni	sce_7835	39.18	ABC transporter, ATP-binding protein, MsbA family
SCE1572_2617	hypothetical protein	bi	sce_2202	77.78	hypothetical protein
SCE1572_2618	hypothetical protein	-		0	
SCE1572_2619	conserved hypothetical protein	bi	sce_2204	83.63	conserved hypothetical protein
SCE1572_2620	hypothetical protein-putative conserved hypothetical protein	bi	sce_3715	77.47	hypothetical protein-putative conserved hypothetical protein
SCE1572_2621	Cellulose-binding domain protein	bi	sce_3716	63.04	Cellulose-binding domain protein

SCE1572_2622	hypothetical protein	-		0	
SCE1572_2623	hypothetical protein	-		0	
SCE1572_2624	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_5143	85.64	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_2625	hypothetical protein	-		0	
SCE1572_2626	FIG01089363: hypothetical protein	bi	sce_8582	78.68	FIG01089363: hypothetical protein
SCE1572_2627	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_5133	80.95	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_2628	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_5134	82.59	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_2629	hypothetical protein	bi	sce_5147	91.91	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_2630	Cellulose-binding domain protein	bi	sce_5148	83.48	Cellulose-binding domain protein
SCE1572_2631	RsbR, positive regulator of sigma-B	bi	sce_5156	82.73	RsbR, positive regulator of sigma-B
SCE1572_2632	FIG01087568: hypothetical protein	bi	sce_1664	86.24	FIG01087568: hypothetical protein
SCE1572_2633	FIG01087568: hypothetical protein	bi	sce_5137	86.46	FIG01087568: hypothetical protein
SCE1572_2634	Cellulose-binding domain protein	bi	sce_5138	80.11	Cellulose-binding domain protein
SCE1572_2635	Transcriptional regulator, LacI family	bi	sce_3717	86.97	Transcriptional regulator, LacI family
SCE1572_2636	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_3502	47.2	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_2637	Ribulokinase (EC 2.7.1.16)	bi	sce_3712	84.4	Ribulokinase (EC 2.7.1.16)
SCE1572_2638	L-arabinose isomerase (EC 5.3.1.4)	bi	sce_3711	88.6	L-arabinose isomerase (EC 5.3.1.4)
SCE1572_2639	L-ribulose-5-phosphate 4-epimerase (EC 5.1.3.4)	bi	sce_3710	90.09	L-ribulose-5-phosphate 4-epimerase (EC 5.1.3.4)
SCE1572_2640	Putative sugar ABC transport system, periplasmic binding protein YtfQ precursor	bi	sce_3709	89.16	Putative sugar ABC transport system, periplasmic binding protein YtfQ precursor
SCE1572_2641	L-arabinose transport ATP-binding protein AraG (TC 3.A.1.2.2)	bi	sce_3708	80	L-arabinose transport ATP-binding protein AraG (TC 3.A.1.2.2)
SCE1572_2642	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	bi	sce_3707	85.8	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_2643	Putative sugar ABC transport system, permease protein YjfF	bi	sce_3706	85.8	Putative sugar ABC transport system, permease protein YjfF
SCE1572_2644	Functional role page for Anaerobic nitric oxide reductase transcription regulator NorR	bi	sce_6530	68.69	Functional role page for Anaerobic nitric oxide reductase transcription regulator NorR
SCE1572_2645	hypothetical protein	-		0	
SCE1572_2646	hypothetical protein	-		0	
SCE1572_2647	Adenylate cyclase (EC 4.6.1.1)	bi	sce_6531	72.83	Adenylate cyclase (EC 4.6.1.1)
SCE1572_2648	hypothetical protein	-		0	
SCE1572_2649	hypothetical protein	-		0	
SCE1572_2650	hypothetical protein	-		0	
SCE1572_2651	hypothetical protein	bi	sce_6534	23.91	Cytochrome c family protein
SCE1572_2652	Adenylate cyclase (EC 4.6.1.1)	bi	sce_9920	42.92	Serine/threonine kinase with two-component sensor domain
SCE1572_2653	Carboxyl-terminal protease	bi	sce_2205	73.49	carboxyl-terminal protease(EC:3.4.21.-)
SCE1572_2654	hypothetical protein	bi	sce_2206	80.69	hypothetical protein
SCE1572_2655	Pentapeptide repeat family protein	bi	sce_2207	85.99	hypothetical protein
SCE1572_2656	hypothetical protein	bi	sce_2208	83.97	hypothetical protein
SCE1572_2657	Predicted cell-wall-anchored protein SasA (LPXTG motif)	bi	sce_2209	67.12	Predicted cell-wall-anchored protein SasA (LPXTG motif)
SCE1572_2658	FIG01086828: hypothetical protein	bi	sce_2210	81.73	FIG01086828: hypothetical protein
SCE1572_2659	FIG01085014: hypothetical protein	bi	sce_2212	89.28	FIG01085014: hypothetical protein
SCE1572_2660	hypothetical protein	-		0	
SCE1572_2661	COG0670: Integral membrane protein, interacts with FtsH	bi	sce_2213	87.34	membrane protein
SCE1572_2662	hypothetical protein	bi	sce_2214	83.58	hypothetical protein
SCE1572_2663	FIG01087723: hypothetical protein	bi	sce_2215	75.74	FIG01087723: hypothetical protein
SCE1572_2664	LSU ribosomal protein L3p (L3e)	bi	sce_2216	92.7	LSU ribosomal protein L3p (L3e)
SCE1572_2665	Cell division protein FtsJ / Ribosomal RNA large subunit methyltransferase E (EC 2.1.1.-) ## LSU rRNA Um2552	bi	sce_2217	97.56	Cell division protein FtsJ / Ribosomal RNA large subunit methyltransferase E (EC 2.1.1.-) ## LSU rRNA Um2552
SCE1572_2666	HipA-like	-		0	
SCE1572_2667	hypothetical protein	-		0	
SCE1572_2668	hypothetical protein	uni	sce_3987	38.96	metallophosphoesterase
SCE1572_2669	Glutaryl-CoA dehydrogenase (EC 1.3.99.7)	bi	sce_2218	94.92	Glutaryl-CoA dehydrogenase (EC 1.3.99.7)
SCE1572_2670	ErfK/YbiS/YcfS/YnhG family protein	bi	sce_2219	81.59	Sll0670 protein
SCE1572_2671	LOC432261 protein	bi	sce_2220	67.45	LOC432261 protein
SCE1572_2672	Creatinine amidohydrolase (EC 3.5.2.10)	bi	sce_2221	89.15	Creatinine amidohydrolase (EC 3.5.2.10)
SCE1572_2673	Benzoate-CoA ligase (EC 6.2.1.25)	bi	sce_2222	91.18	Benzoate-CoA ligase (EC 6.2.1.25)
SCE1572_2674	NADH-dependent flavin oxidoreductase	bi	sce_2223	91.7	NADH-dependent flavin oxidoreductase
SCE1572_2675	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	bi	sce_2224	89.21	Butyryl-CoA dehydrogenase (EC 1.3.99.2)
SCE1572_2676	Enoyl-CoA hydratase (EC 4.2.1.17)	bi	sce_2225	89.38	Enoyl-CoA hydratase (EC 4.2.1.17)
SCE1572_2677	Transcriptional regulator, MarR family	bi	sce_2226	96.67	Transcriptional regulator, MarR family
SCE1572_2678	Endoribonuclease L-PSP	bi	sce_2227	80.27	COG0251: Putative translation initiation inhibitor, yjgF family
SCE1572_2679	D-beta-hydroxybutyrate dehydrogenase (EC 1.1.1.30)	bi	sce_2228	91.8	D-beta-hydroxybutyrate dehydrogenase (EC 1.1.1.30)
SCE1572_2680	fatty acid desaturase family protein, putative	-		0	
SCE1572_2681	Inosamine-phosphate amidinotransferase 1 (EC 2.1.4.2) (Inosamine-phosphate amidinotransferase I) (Aminocyclitol amidinotr	-		0	
SCE1572_2682	hypothetical protein	uni	sce_9522	32.79	Phosphoribosylglycinamide formyltransferase (EC 2.1.2.2)
SCE1572_2683	methionine gamma-lyase(EC:4.4.1.11)	uni	sce_6912	39.05	Cystathionine gamma-lyase (EC 4.4.1.1)
SCE1572_2684	Aromatic-L-amino-acid decarboxylase (EC 4.1.1.28)	uni	sce_2563	33.88	Aromatic-L-amino-acid decarboxylase (EC 4.1.1.28)
SCE1572_2685	hypothetical protein	-		0	
SCE1572_2686	hypothetical protein	-		0	
SCE1572_2687	hypothetical protein	-		0	
SCE1572_2688	hypothetical protein	bi	sce_2229	86.96	hypothetical protein
SCE1572_2689	hypothetical protein	bi	sce_2230	88.32	hypothetical protein
SCE1572_2690	NB-ARC domain protein	uni	sce_1995	55.46	serine/threonine protein kinase
SCE1572_2691	Soluble pyridine nucleotide transhydrogenase (EC 1.6.1.1)	bi	sce_2231	93.98	Soluble pyridine nucleotide transhydrogenase (EC 1.6.1.1)
SCE1572_2692	hypothetical protein	bi	sce_2232	96.36	TPR repeat
SCE1572_2693	hypothetical protein	bi	sce_2233	86.41	hypothetical protein
SCE1572_2694	putative secreted lipase	bi	sce_2234	88.24	putative secreted lipase
SCE1572_2695	FIG01085228: hypothetical protein	bi	sce_2235	90.43	FIG01085228: hypothetical protein
SCE1572_2696	hypothetical protein	-		0	
SCE1572_2697	FIG01086605: hypothetical protein	uni	sce_8463	41.37	FIG01086605: hypothetical protein
SCE1572_2698	predicted protein	uni	sce_7695	46.02	predicted protein
SCE1572_2699	hypothetical protein	uni	sce_7692	59.09	hypothetical protein
SCE1572_2700	Putative integrase	bi	sce_1425	40.8	Integrase-like protein
SCE1572_2701	Serine/threonine protein kinase	bi	sce_6712	60.36	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_2702	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P1 protein) (EC 1.4.4.2)	bi	sce_2240	95.68	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P1 protein) (EC 1.4.4.2)
SCE1572_2703	Glycine cleavage system H protein	bi	sce_2241	89.47	Glycine cleavage system H protein
SCE1572_2704	Aminomethyltransferase (glycine cleavage system T protein) (EC 2.1.2.10)	bi	sce_2242	94.91	Aminomethyltransferase (glycine cleavage system T protein) (EC 2.1.2.10)
SCE1572_2705	hypothetical protein	bi	sce_2243	83.51	hypothetical protein
SCE1572_2706	Type IV fimbrial biogenesis protein PilY1	bi	sce_2245	77.87	FIG01085186: hypothetical protein
SCE1572_2707	hypothetical protein	bi	sce_2246	74.16	hypothetical protein
SCE1572_2708	FIG01085679: hypothetical protein	bi	sce_2247	70.93	FIG01085679: hypothetical protein
SCE1572_2709	hypothetical protein	bi	sce_2248	78.61	hypothetical protein
SCE1572_2710	type 4 fimbrial biogenesis protein FimU	bi	sce_2249	79.13	type 4 fimbrial biogenesis protein FimU
SCE1572_2711	FIG01087162: hypothetical protein	bi	sce_2250	88	FIG01087162: hypothetical protein
SCE1572_2712	Peptidyl-prolyl cis-trans isomerase ppiD (EC 5.2.1.8)	bi	sce_2251	87.14	Peptidyl-prolyl cis-trans isomerase ppiD (EC 5.2.1.8)
SCE1572_2713	3-alpha,7-alpha, 12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoAhydratase(EC:4.2.1.107)	bi	sce_2252	90.78	3-alpha,7-alpha, 12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoAhydratase(EC:4.2.1.107)
SCE1572_2714	FIG01088153: hypothetical protein	bi	sce_2253	81.75	FIG01088153: hypothetical protein
SCE1572_2715	serine/threonine protein kinase	bi	sce_2254	80.56	serine/threonine protein kinase
SCE1572_2716	Segregation and condensation protein A	bi	sce_2255	71.45	Segregation and condensation protein A
SCE1572_2717	Segregation and condensation protein A	uni	sce_2255	58	Segregation and condensation protein A
SCE1572_2718	Segregation and condensation protein B	bi	sce_2256	78.14	Segregation and condensation protein B
SCE1572_2719	hypothetical protein	bi	sce_2257	77.46	FIG01088020: hypothetical protein
SCE1572_2720	FIG01088901: hypothetical protein	bi	sce_2258	81.27	FIG01088901: hypothetical protein
SCE1572_2721	FIG01088310: hypothetical protein	bi	sce_2259	89.16	FIG01088310: hypothetical protein
SCE1572_2722	TldE/PmbA protein, part of proposed TldE/TldD proteolytic complex (PMID 12029038)	bi	sce_2260	92.73	TldE/PmbA protein, part of proposed TldE/TldD proteolytic complex (PMID 12029038)
SCE1572_2723	FIG01089612: hypothetical protein	bi	sce_2261	84.8	FIG01089612: hypothetical protein
SCE1572_2724	Circadian phase modifier	bi	sce_2262	93.6	Circadian phase modifier
SCE1572_2725	hypothetical protein	bi	sce_2263	91.1	protein of unknown function DUF111
SCE1572_2726	Thioredoxin	bi	sce_2264	91.08	Thioredoxin
SCE1572_2727	Oligopeptide transport system permease protein OppC (TC 3.A.1.5.1)	bi	sce_2265	91.24	Oligopeptide transport system permease protein OppC (TC 3.A.1.5.1)
SCE1572_2728	Oligopeptide transport system permease protein OppB (TC 3.A.1.5.1)	bi	sce_2266	92.93	Oligopeptide transport system permease protein OppB (TC 3.A.1.5.1)
SCE1572_2729	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)	bi	sce_2267	84.78	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)
SCE1572_2730	Possible serine proteinase	bi	sce_2268	91.32	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)
SCE1572_2731	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_2269	87.05	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_2732	hypothetical protein	bi	sce_2270	94.79	FHA domain containing protein
SCE1572_2733	hypothetical protein	bi	sce_2272	81.29	hypothetical protein
SCE1572_2734	hypothetical protein	bi	sce_2273	94.62	hypothetical protein
SCE1572_2735	hypothetical protein	bi	sce_2274	86.22	hypothetical protein
SCE1572_2736	Low-specificity L-threonine aldolase (EC 4.1.2.5)	bi	sce_2275	89.81	Low-specificity L-threonine aldolase (EC 4.1.2.5)
SCE1572_2737	PROBABLE OXIDOREDUCTASE GMC-TYPE (EC 1.-.-.-)	bi	sce_2276	91.03	PROBABLE OXIDOREDUCTASE GMC-TYPE (EC 1.-.-.-)
SCE1572_2738	hypothetical protein	bi	sce_2277	85.55	hypothetical protein
SCE1572_2739	UL36 very large tegument protein	bi	sce_2278	75.84	Serine/threonine protein kinase (EC 2.7.11.1)
SCE1572_2740	hypothetical protein	bi	sce_2279	86.81	hypothetical protein
SCE1572_2741	hypothetical protein	bi	sce_2280	75.31	hypothetical protein
SCE1572_2742	DNA-binding response regulator	bi	sce_2281	96.48	DNA-binding response regulator
SCE1572_2743	sensor histidine kinase	bi	sce_2282	85.68	sensor histidine kinase
SCE1572_2744	two-component response regulator	bi	sce_2283	90.32	two-component response regulator
SCE1572_2745	hypothetical protein	bi	sce_2284	84.05	hypothetical protein
SCE1572_2746	hypothetical protein	bi	sce_2285	81.65	hypothetical protein
SCE1572_2747	Antifreeze glycopeptide AFGP polyprotein precursor	bi	sce_2286	78.72	Antifreeze glycopeptide AFGP polyprotein precursor
SCE1572_2748	FIG01089119: hypothetical protein	bi	sce_2287	76.15	FIG01089119: hypothetical protein
SCE1572_2749	serine/threonine protein kinase	bi	sce_2288	70.04	serine/threonine protein kinase
SCE1572_2750	hypothetical protein	bi	sce_2289	92.33	hypothetical protein
SCE1572_2751	hypothetical protein	bi	sce_2290	83.66	FIG01086707: hypothetical protein
SCE1572_2752	hypothetical protein	bi	sce_2291	91.55	hypothetical protein
SCE1572_2753	hypothetical protein	-		0	
SCE1572_2754	AmpG permease	bi	sce_2292	81.61	AmpG permease
SCE1572_2755	hypothetical protein	uni	sce_4703	39.38	FIG01088187: hypothetical protein
SCE1572_2756	hypothetical protein	-		0	
SCE1572_2757	FIG01086577: hypothetical protein	bi	sce_2302	75	hypothetical protein
SCE1572_2758	peptidase M16-like	bi	sce_2304	85.07	peptidase M16-like
SCE1572_2759	FIG01085406: hypothetical protein	bi	sce_2305	87.62	FIG01085406: hypothetical protein
SCE1572_2760	FIG01085501: hypothetical protein	bi	sce_2306	78.2	FIG01085501: hypothetical protein
SCE1572_2761	hypothetical protein	bi	sce_2307	67.31	hypothetical protein
SCE1572_2762	hypothetical protein	-		0	
SCE1572_2763	FIG01085454: hypothetical protein	bi	sce_2308	87.55	FIG01085454: hypothetical protein
SCE1572_2764	hypothetical protein	-		0	
SCE1572_2765	hypothetical protein	bi	sce_2310	60.62	Feruloyl esterase B precursor (EC 3.1.1.73) (Ferulic acid esterase B) (FAEB) (Cinnamoyl esterase)
SCE1572_2766	hypothetical protein	bi	sce_2311	81.44	hypothetical protein
SCE1572_2767	hypothetical protein	bi	sce_2312	80.42	hypothetical protein
SCE1572_2768	Glyoxalase/bleomycin resistance protein/dioxygenase	bi	sce_2313	90.08	Glyoxalase/bleomycin resistance protein/dioxygenase
SCE1572_2769	FIG01087685: hypothetical protein	bi	sce_2314	61.35	FIG01087685: hypothetical protein
SCE1572_2770	hypothetical protein	bi	sce_4153	82.19	hypothetical protein
SCE1572_2771	hypothetical protein	bi	sce_7299	85.53	hypothetical protein
SCE1572_2772	hypothetical protein	uni	sce_167	54.66	hypothetical protein
SCE1572_2773	hypothetical protein	-		0	
SCE1572_2774	FIG01084927: hypothetical protein	bi	sce_9577	78.97	FIG01088459: hypothetical protein
SCE1572_2775	protein phosphatase homolog	uni	sce_5702	37.37	hypothetical protein
SCE1572_2776	hypothetical protein	-		0	
SCE1572_2777	TonB family protein / TonB-dependent receptor	bi	sce_10401	82.11	TonB family protein / TonB-dependent receptor
SCE1572_2778	hypothetical protein	-		0	
SCE1572_2779	hypothetical protein	uni	sce_5996	33.03	FIG01087215: hypothetical protein
SCE1572_2780	hypothetical protein	-		0	
SCE1572_2781	transcriptional regulator, MerR family	bi	sce_2367	86.42	transcriptional regulator, MerR family
SCE1572_2782	von Willebrand factor type A domain protein	bi	sce_2368	82.69	von Willebrand factor type A like domain
SCE1572_2783	Flagellar motor rotation protein MotB	bi	sce_2369	73.65	Flagellar motor rotation protein MotB
SCE1572_2784	Chloride peroxidase(EC:1.11.1.10)	bi	sce_5173	70.02	Chloride peroxidase(EC:1.11.1.10)
SCE1572_2785	monooxygenase, FAD-binding	bi	sce_2429	30.89	NAD binding site

SCE1572_2786	hypothetical protein	-		0	
SCE1572_2787	Chalcone synthase (EC 2.3.1.74)	bi	sce_2372	33.14	Chalcone synthase (EC 2.3.1.74)
SCE1572_2788	hypothetical protein	bi	sce_2375	89.43	hypothetical protein
SCE1572_2789	Ribosomal protein S3	bi	sce_2376	69.28	Ribosomal protein S3
SCE1572_2790	Cytochrome oxidase biogenesis protein Sco1/SenC/PrrC, putative copper metallochaperone	bi	sce_2381	71.91	Cytochrome oxidase biogenesis protein Sco1/SenC/PrrC, putative copper metallochaperone
SCE1572_2791	Xylosidase/arabinosidase	uni	sce_5143	32.51	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_2792	conserved hypothetical protein	bi	sce_2439	85.82	FIG01150558: hypothetical protein
SCE1572_2793	hypothetical protein	uni	sce_2439	78.24	FIG01150558: hypothetical protein
SCE1572_2794	hypothetical protein	-		0	
SCE1572_2795	response regulator receiver domain protein (CheY-like)	bi	sce_2451	68.03	twitching motility protein PilH
SCE1572_2796	Chemotaxis protein CheD	bi	sce_2449	66.2	Chemotaxis protein CheD
SCE1572_2797	Signal transduction histidine kinase CheA (EC 2.7.3.-)	bi	sce_1364	86.73	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_2798	Positive regulator of CheA protein activity (CheW)	bi	sce_1365	90.76	Positive regulator of CheA protein activity (CheW)
SCE1572_2799	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_2462	81.99	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_2800	Methyl-accepting chemotaxis protein I (serine chemoreceptor protein)	bi	sce_1367	89.09	methyl-accepting chemotaxis sensory transducer
SCE1572_2801	PHP C-terminal domain protein	uni	sce_7628	50.14	Phosphoesterase PHP, N-terminal precursor
SCE1572_2802	Choline-sulfatase (EC 3.1.6.6)	uni	sce_1065	28.79	sulfatase
SCE1572_2803	hypothetical protein	bi	sce_6975	93.14	hypothetical protein
SCE1572_2804	hypothetical protein	bi	sce_2463	65.91	hypothetical protein
SCE1572_2805	Probable proteinase	bi	sce_2465	92.63	Probable proteinase
SCE1572_2806	FIG00546957: hypothetical protein	uni	sce_4688	88.4	hypothetical protein
SCE1572_2807	Probable proteinase	-		0	
SCE1572_2808	hypothetical protein	bi	sce_4688	94.65	hypothetical protein
SCE1572_2809	EBNA-1	uni	sce_4688	71.05	hypothetical protein
SCE1572_2810	4-hydroxybenzoyl-CoA thioesterase family active site	uni	sce_9147	86.54	4-hydroxybenzoyl-CoA thioesterase family active site
SCE1572_2811	hypothetical protein	-		0	
SCE1572_2812	Cellulose-binding domain protein	uni	sce_1144	31.44	Cellulose-binding domain protein
SCE1572_2813	Glyoxalase/bleomycin resistance protein/dioxygenase	bi	sce_10023	89.94	Glyoxalase/bleomycin resistance protein/dioxygenase
SCE1572_2814	peptidase S1 and S6, chymotrypsin/Hap	bi	sce_7618	83.06	hydrolase
SCE1572_2815	Transcriptional regulator, LysR family	bi	sce_4673	85.96	Transcriptional regulator, LysR family
SCE1572_2816	hypothetical protein	uni	sce_7618	63.69	hydrolase
SCE1572_2817	hypothetical protein	-		0	
SCE1572_2818	hypothetical protein	uni	sce_940	25.33	VgrG protein
SCE1572_2819	hypothetical protein	uni	sce_9160	31.95	FIG01088789: hypothetical protein
SCE1572_2820	RsbR, positive regulator of sigma-B	bi	sce_7859	82.35	RsbR, positive regulator of sigma-B
SCE1572_2821	Probable polyketide cyclase	bi	sce_7860	88.17	Probable polyketide cyclase
SCE1572_2822	NAD(P)H oxidoreductase YRKL (EC 1.6.99.-) @ Putative NADPH-quinone reductase (modulator of drug activity B) @ Flavo	uni	sce_9440	29.3	NAD(P)H dehydrogenase (quinone)
SCE1572_2823	transcriptional regulator, LysR family	uni	sce_196	43.9	Transcriptional regulator, LysR family
SCE1572_2824	FIG01089656: hypothetical protein	bi	sce_6417	95.36	FIG01089656: hypothetical protein
SCE1572_2825	Transcriptional regulator	bi	sce_1113	92.56	transcriptional regulator, LysR family
SCE1572_2826	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_1112	95.06	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_2827	FIG01086405: hypothetical protein	bi	sce_1111	87.5	FIG01086405: hypothetical protein
SCE1572_2828	hypothetical protein	-		0	
SCE1572_2829	hypothetical protein	bi	sce_1110	69.51	hypothetical protein
SCE1572_2830	hypothetical protein	-		0	
SCE1572_2831	hypothetical protein	-		0	
SCE1572_2832	ATP-dependent DNA helicase, RecQ family	uni	sce_3239	46.17	ATP-dependent DNA helicase RecQ
SCE1572_2833	Ferredoxin	uni	sce_6415	82.14	Ferredoxin
SCE1572_2834	Nitrite transporter from formate/nitrite family	-		0	
SCE1572_2835	hypothetical protein	bi	sce_521	55.17	hypothetical protein
SCE1572_2836	hypothetical protein	bi	sce_520	32.33	hypothetical protein
SCE1572_2837	hypothetical protein	uni	sce_8817	44.54	Rhs family carbohydrate-binding protein
SCE1572_2838	Mobile element protein	-		0	
SCE1572_2839	Rhs protein	uni	sce_121	37.5	Putative membrane protein
SCE1572_2840	hypothetical protein	-		0	
SCE1572_2841	hypothetical protein	uni	sce_5612	52.11	FIG01086888: hypothetical protein
SCE1572_2842	hypothetical protein	-		0	
SCE1572_2843	DNA repair protein RadC	uni	sce_8397	93.9	DNA repair protein RadC
SCE1572_2844	hypothetical protein	-		0	
SCE1572_2845	hypothetical protein	uni	sce_513	72.35	FIG01087636: hypothetical protein
SCE1572_2846	Transcriptional regulator Cro/CI family	bi	sce_514	77.08	hypothetical protein
SCE1572_2847	hypothetical protein	-		0	
SCE1572_2848	Cytochrome c551 peroxidase (EC 1.11.1.5)	uni	sce_10371	64.03	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_2849	hypothetical protein	-		0	
SCE1572_2850	Dihydrofolate reductase (EC 1.5.1.3)	bi	sce_10151	94.05	Dihydrofolate reductase (EC 1.5.1.3)
SCE1572_2851	hypothetical protein	-		0	
SCE1572_2852	hypothetical protein	-		0	
SCE1572_2853	Cellulase(EC:3.2.1.4)	uni	sce_4169	51.89	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_2854	hypothetical protein	-		0	
SCE1572_2855	hypothetical protein	bi	sce_6878	77.52	hypothetical protein
SCE1572_2856	COG0583: Transcriptional regulator	uni	sce_2359	35.03	Transcriptional regulator, LysR family
SCE1572_2857	Mlr5572 protein	-		0	
SCE1572_2858	FIG01084860: hypothetical protein	bi	sce_10022	66.58	FIG01084860: hypothetical protein
SCE1572_2859	PE-PGRS FAMILY PROTEIN	bi	sce_8405	77.59	PE-PGRS FAMILY PROTEIN
SCE1572_2860	conserved hypothetical protein	-		0	
SCE1572_2861	Oxidoreductase	-		0	
SCE1572_2862	Oxidoreductase	bi	sce_10011	54.29	Oxidoreductase
SCE1572_2863	Transcriptional regulator	uni	sce_5333	36.07	Transcriptional regulator, LysR family
SCE1572_2864	hypothetical protein	-		0	
SCE1572_2865	hypothetical protein	-		0	
SCE1572_2866	Putative glycosyl hydrolase of unknown function (DUF1680)	uni	sce_8647	45.05	Arylsulfatase (EC 3.1.6.1)
SCE1572_2867	hypothetical protein	-		0	
SCE1572_2868	Extracellular ligand-binding receptor	-		0	
SCE1572_2869	hypothetical protein	-		0	
SCE1572_2870	aspartyl-tRNA synthetase(EC:6.1.1.12)	-		0	
SCE1572_2871	hypothetical protein	-		0	
SCE1572_2872	hypothetical protein	bi	sce_2416	87.86	FIG01088021: hypothetical protein
SCE1572_2873	hypothetical protein	bi	sce_1277	78.53	hypothetical protein
SCE1572_2874	protein of unknown function DUF885	uni	sce_1817	28.89	hypothetical protein
SCE1572_2875	hypothetical protein	bi	sce_2477	88.85	hypothetical protein
SCE1572_2876	putative phosphoesterase	bi	sce_2478	91.07	putative phosphoesterase
SCE1572_2877	hypothetical protein	bi	sce_2483	87.5	hypothetical protein
SCE1572_2878	Cellulase CelE ortholog; dockerin domain	bi	sce_2484	86.34	Cellulase CelE ortholog; dockerin domain
SCE1572_2879	hypothetical protein	bi	sce_2504	28.15	Levanase (EC 3.2.1.65)
SCE1572_2880	hypothetical protein	-		0	
SCE1572_2881	hypothetical protein	-		0	
SCE1572_2882	beta-lactamase domain protein	uni	sce_205	34.08	FIG01211180: hypothetical protein
SCE1572_2883	hypothetical protein	bi	sce_2505	92.98	hypothetical protein
SCE1572_2884	Predicted glutamine amidotransferase	bi	sce_2506	88.19	Predicted glutamine amidotransferase
SCE1572_2885	protein of unknown function DUF407	bi	sce_2507	75.64	protein of unknown function DUF407
SCE1572_2886	glutamate-cysteine ligase, family 2	bi	sce_2508	88.42	glutamate-cysteine ligase, family 2
SCE1572_2887	hypothetical protein	bi	sce_2510	72.26	hypothetical protein
SCE1572_2888	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase, alpha subunit (EC 2.7.1.90)	bi	sce_2511	94.24	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase, alpha subunit (EC 2.7.1.90)
SCE1572_2889	hypothetical protein	-		0	
SCE1572_2890	bacteriophage N4 adsorption protein B	-		0	
SCE1572_2891	hypothetical protein	-		0	
SCE1572_2892	UDP-N-acetylglucosamine 2-epimerase (EC 5.1.3.14)	uni	sce_2786	33.07	UDP-N-acetylglucosamine 2-epimerase (EC 5.1.3.14)
SCE1572_2893	Twin-arginine translocation pathway signal	-		0	
SCE1572_2894	conserved hypothetical transmembrane protein	-		0	
SCE1572_2895	FIG01085316: hypothetical protein	bi	sce_2512	78.83	FIG01085316: hypothetical protein
SCE1572_2896	hypothetical protein	-		0	
SCE1572_2897	SAM-dependent methyltransferases	bi	sce_2548	93.67	hypothetical protein
SCE1572_2898	hypothetical protein	-		0	
SCE1572_2899	Alkanesulfonates-binding protein	bi	sce_2549	89.87	Alkanesulfonates-binding protein
SCE1572_2900	hypothetical protein	-		0	
SCE1572_2901	hypothetical protein	-		0	
SCE1572_2902	hypothetical protein	-		0	
SCE1572_2903	hypothetical protein	-		0	
SCE1572_2904	Transposase	bi	sce_9024	78.48	Transposase
SCE1572_2905	hypothetical protein	uni	sce_2135	31.08	hypothetical protein
SCE1572_2906	hypothetical protein	-		0	
SCE1572_2907	Transcriptional regulator, MarR family	uni	sce_8692	34.23	Transcriptional regulator, MarR family
SCE1572_2908	protoglobin	-		0	
SCE1572_2909	ABC transporter, ATP-binding protein	uni	sce_6239	52.81	ABC-type multidrug transport system, ATPase component
SCE1572_2910	ABC-2 type transporter family	uni	sce_6238	52.25	ABC-type multidrug transport system, permease component
SCE1572_2911	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_5460	23.87	alkanal monooxygenase
SCE1572_2912	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_2666	47.74	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_2913	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_9231	48.88	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_2914	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_2666	47.74	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_2915	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_4641	45.79	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_2916	putative methyltransferase	bi	sce_6296	83.33	putative methyltransferase
SCE1572_2917	3,4-dihydroxy-2-butanone 4-phosphate synthase (EC 4.1.99.12) / GTP cyclohydrolase II (EC 3.5.4.25)	bi	sce_2550	83.19	3,4-dihydroxy-2-butanone 4-phosphate synthase (EC 4.1.99.12) / GTP cyclohydrolase II (EC 3.5.4.25)
SCE1572_2918	regulatory protein, MarR	uni	sce_6851	25.18	FIG01085217: hypothetical protein
SCE1572_2919	hypothetical protein	uni	sce_8363	35.85	Transcriptional regulator, MerR family
SCE1572_2920	PE_PGRS family protein	uni	sce_6265	40.63	Gll0995 protein
SCE1572_2921	extracellular solute-binding protein, family 1	uni	sce_3430	23.23	N-Acetyl-D-glucosamine ABC transport system, sugar-binding protein
SCE1572_2922	N-Acetyl-D-glucosamine ABC transport system, permease protein 1	uni	sce_10351	34.78	N-Acetyl-D-glucosamine ABC transport system, permease protein 1
SCE1572_2923	Multiple sugar ABC transporter, membrane-spanning permease protein MsmG	uni	sce_8698	30.63	Maltose/maltodextrin ABC transporter, permease protein MalG
SCE1572_2924	Alpha-xylosidase (EC 3.2.1.-)	uni	sce_3862	28.61	Alpha-glucosidase (EC 3.2.1.20)
SCE1572_2925	Beta-glucosidase (EC 3.2.1.21)	uni	sce_3502	39.09	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_2926	hypothetical protein	bi	sce_6392	50.46	hypothetical protein
SCE1572_2927	Methyltransferase type 12	uni	sce_5920	44.78	Methyltransferase
SCE1572_2928	hypothetical protein	-		0	
SCE1572_2929	hypothetical protein	-		0	
SCE1572_2930	hypothetical protein	-		0	
SCE1572_2931	hypothetical protein	-		0	
SCE1572_2932	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins	bi	sce_2553	85.24	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins
SCE1572_2933	hypothetical protein	-		0	
SCE1572_2934	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_2554	67.86	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_2935	Probable transmembrane protein	bi	sce_2555	83.33	Probable transmembrane protein
SCE1572_2936	protein of unknown function DUF395, YeeE/YedE	bi	sce_2556	71.43	GENE II AND X PROTEINS
SCE1572_2937	probable cell surface glycoprotein	-		0	
SCE1572_2938	FIG01090715: hypothetical protein	-		0	
SCE1572_2939	Oxygenase reductase-like protein	uni	sce_1372	46.51	probable oxygenase
SCE1572_2940	probable oxygenase	uni	sce_7151	59.76	putative flavodoxin monooxygenase
SCE1572_2941	Transcriptional regulator, TetR family	uni	sce_9220	28.83	Transcriptional regulator, TetR family
SCE1572_2942	EBNA-1	uni	sce_3674	45.35	hypothetical protein
SCE1572_2943	hypothetical protein	uni	sce_577	48.44	zinc finger/thioredoxin putative
SCE1572_2944	Gll2764 protein	uni	sce_5157	50	Gll2764 protein
SCE1572_2945	hypothetical protein	uni	sce_8653	89.13	hypothetical protein
SCE1572_2946	hypothetical protein	uni	sce_6896	33.95	hypothetical protein
SCE1572_2947	hypothetical protein	-		0	
SCE1572_2948	hypothetical protein	uni	sce_8368	43.51	EBNA-1
SCE1572_2949	FIG01088881: hypothetical protein	-		0	

SCE1572_2950	POSSIBLE TRANSPOSASE	bi	sce_7501	91.84	hypothetical protein
SCE1572_2951	RsbR, positive regulator of sigma-B	bi	sce_6236	72.97	RsbR, positive regulator of sigma-B
SCE1572_2952	putative transposase	-		0	
SCE1572_2953	hypothetical protein	uni	sce_8653	92.59	hypothetical protein
SCE1572_2954	istB transposition helper protein	bi	sce_3807	92.31	IstB helper protein C-terminal domain
SCE1572_2955	hypothetical protein	-		0	
SCE1572_2956	alginate regulatory protein AlgP	bi	sce_2576	58.49	hypothetical protein
SCE1572_2957	hypothetical protein	bi	sce_2577	82.94	FIG00703100: hypothetical protein
SCE1572_2958	Sensor histidine kinase	uni	sce_1882	41.22	Copper sensory histidine kinase CpxA
SCE1572_2959	regulatory protein	uni	sce_1881	46.97	two component, sigma54 specific, transcriptional regulator, Fis family
SCE1572_2960	Beta-xylosidase (EC 3.2.1.37)	bi	sce_137	50.09	Beta-xylosidase (EC 3.2.1.37)
SCE1572_2961	Signal transduction histidine kinase	bi	sce_2578	88.89	Signal transduction histidine kinase
SCE1572_2962	hypothetical protein	-		0	
SCE1572_2963	Serine/threonine kinase	bi	sce_2579	91.58	Serine/threonine kinase
SCE1572_2964	Serine/threonine kinase	-		0	
SCE1572_2965	FIG01089186: hypothetical protein	uni	sce_1502	75.7	FIG01085594: hypothetical protein
SCE1572_2966	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_8507	32.29	serine/threonine protein kinase
SCE1572_2967	24	uni	sce_1486	46.28	VgrG protein
SCE1572_2968	Twin-arginine translocation protein TatB	uni	sce_1796	35.28	hypothetical protein
SCE1572_2969	FIG01085829: hypothetical protein	uni	sce_711	59.71	FIG01085829: hypothetical protein
SCE1572_2970	hypothetical protein	bi	sce_8259	46.84	hypothetical protein
SCE1572_2971	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	uni	sce_4001	51.94	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_2972	VgrG protein	uni	sce_3035	48.55	VgrG protein
SCE1572_2973	hypothetical protein	-		0	
SCE1572_2974	hypothetical protein	-		0	
SCE1572_2975	PE-PGRS FAMILY PROTEIN	uni	sce_711	59.75	FIG01085829: hypothetical protein
SCE1572_2976	hypothetical protein	uni	sce_8259	40.21	hypothetical protein
SCE1572_2977	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	uni	sce_4001	51.94	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_2978	hypothetical protein	bi	sce_4652	38.96	FIG01085963: hypothetical protein
SCE1572_2979	MutT/nudix family protein	bi	sce_2583	91.54	MutT/nudix family protein
SCE1572_2980	hypothetical protein	bi	sce_2584	87.11	hypothetical protein
SCE1572_2981	Phenazine biosynthesis protein PhzF like	-		0	
SCE1572_2982	hypothetical protein	-		0	
SCE1572_2983	tRNA (adenine37-N(6)-)-methyltransferase TrmN6	bi	sce_2585	89.53	tRNA (adenine37-N(6)-)-methyltransferase TrmN6
SCE1572_2984	hypothetical protein	bi	sce_2586	55.51	FIG01084968: hypothetical protein
SCE1572_2985	Protein of unknown function DUF541	bi	sce_2587	74.36	Protein of unknown function DUF541
SCE1572_2986	hypothetical protein	-		0	
SCE1572_2987	Probable serine/threonine-protein kinase pknB (EC 2.7.11.1)	bi	sce_2588	90.96	Probable serine/threonine-protein kinase pknB (EC 2.7.11.1)
SCE1572_2988	hypothetical protein	-		0	
SCE1572_2989	4-hydroxyphenylacetate 3-monooxygenase (EC 1.14.13.3)	-		0	
SCE1572_2990	hypothetical protein	-		0	
SCE1572_2991	Serine phosphatase RsbU, regulator of sigma subunit	bi	sce_2589	80.85	Serine phosphatase RsbU, regulator of sigma subunit
SCE1572_2992	FIG01089073: hypothetical protein	bi	sce_2590	75.81	FIG01089073: hypothetical protein
SCE1572_2993	FIG01085827: hypothetical protein	bi	sce_2591	96.55	FIG01085827: hypothetical protein
SCE1572_2994	hypothetical protein	-		0	
SCE1572_2995	FIG01087338: hypothetical protein	bi	sce_2593	80.81	FIG01087338: hypothetical protein
SCE1572_2996	serine/threonine protein kinase	bi	sce_2596	83.64	serine/threonine protein kinase
SCE1572_2997	hypothetical protein	-		0	
SCE1572_2998	hypothetical protein	bi	sce_2597	90.58	hypothetical protein
SCE1572_2999	predicted protein	bi	sce_3447	25.6	FIG01088771: hypothetical protein
SCE1572_3000	FIG01086549: hypothetical protein	uni	sce_8347	35.25	Rhs family protein
SCE1572_3001	hypothetical protein	uni	sce_3858	37.29	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_3002	hypothetical protein	bi	sce_6068	75.86	hypothetical protein
SCE1572_3003	RNA polymerase sigma factor RpoE	bi	sce_9937	85.64	RNA polymerase sigma factor RpoE
SCE1572_3004	Epstein-Barr nuclear antigen 1 (EBV nuclear antigen 1) (EBNA-1)	uni	sce_9938	57.43	EBNA-1
SCE1572_3005	Cucumis sativus mRNA expressed in cucumber hypocotyls, complete cds	bi	sce_9938	66.22	EBNA-1
SCE1572_3006	hypothetical protein	-		0	
SCE1572_3007	GCN5-related N-acetyltransferase	bi	sce_2598	87.08	GCN5-related N-acetyltransferase
SCE1572_3008	putative signal transduction protein with CBS domains	bi	sce_2600	82.98	putative signal-transduction protein with CBS domains
SCE1572_3009	FIG01088135: hypothetical protein	bi	sce_6056	90.24	FIG01088135: hypothetical protein
SCE1572_3010	FIG01086674: hypothetical protein	bi	sce_2938	57.55	FIG01086674: hypothetical protein
SCE1572_3011	Cytochrome c peroxidase (EC 1.11.1.5)	bi	sce_2937	71.35	Cytochrome c peroxidase (EC 1.11.1.5)
SCE1572_3012	FIG01085516: hypothetical protein	bi	sce_1454	84.21	FIG01085516: hypothetical protein
SCE1572_3013	putative acetyltransferase	-		0	
SCE1572_3014	FIG01084854: hypothetical protein	bi	sce_2467	79.18	FIG01084854: hypothetical protein
SCE1572_3015	Shikimate 5-dehydrogenase I alpha (EC 1.1.1.25)	bi	sce_2476	89.05	Shikimate 5-dehydrogenase I alpha (EC 1.1.1.25)
SCE1572_3016	hypothetical protein	-		0	
SCE1572_3017	Formate dehydrogenase-O, major subunit (EC 1.2.1.2)	uni	sce_1282	29.23	Assimilatory nitrate reductase large subunit (EC:1.7.99.4)
SCE1572_3018	hypothetical protein	uni	sce_224	31.45	FIG01085761: hypothetical protein
SCE1572_3019	hypothetical protein	uni	sce_5527	70.42	hypothetical protein
SCE1572_3020	FIG01087954: hypothetical protein	uni	sce_7521	76.55	FIG01087954: hypothetical protein
SCE1572_3021	hypothetical protein	uni	sce_6807	80.7	hypothetical protein
SCE1572_3022	PE-PGRS FAMILY PROTEIN	bi	sce_6869	85.71	hypothetical protein
SCE1572_3023	PE_PGRS family protein	uni	sce_6869	76.72	hypothetical protein
SCE1572_3024	PE-PGRS family protein	bi	sce_6870	77.88	PE-PGRS FAMILY PROTEIN
SCE1572_3025	hypothetical protein	uni	sce_9794	65.53	FIG01089478: hypothetical protein
SCE1572_3026	RNA polymerase sigma factor SigW	uni	sce_6872	54.45	RNA polymerase sigma factor SigW
SCE1572_3027	putative amine oxidase(EC:1.4.3.4)	-		0	
SCE1572_3028	hypothetical protein	-		0	
SCE1572_3029	hypothetical protein	-		0	
SCE1572_3030	Integrase, catalytic region	uni	sce_9803	29.81	Mobile element protein
SCE1572_3031	hypothetical protein	-		0	
SCE1572_3032	CmnU	bi	sce_2601	92.38	CmnU
SCE1572_3033	Membrane alanine aminopeptidase N (EC 3.4.11.2)	bi	sce_2602	91.73	Membrane alanine aminopeptidase N (EC 3.4.11.2)
SCE1572_3034	hypothetical protein	bi	sce_2603	89.73	hypothetical protein
SCE1572_3035	FIG01086200: hypothetical protein	bi	sce_2604	83.87	FIG01086200: hypothetical protein
SCE1572_3036	hypothetical protein	bi	sce_2606	89.89	FIG01087050: hypothetical protein
SCE1572_3037	Protein rarD	bi	sce_2607	86.04	Protein rarD
SCE1572_3038	hypothetical protein	bi	sce_2347	44.55	Mlr6568 protein
SCE1572_3039	hypothetical protein	bi	sce_7068	33.61	WD-40 repeat protein
SCE1572_3040	sigma54 specific transcriptional regulator with PAS sensor, Fis family	uni	sce_1588	47.25	sigma-54 dependent DNA-binding response regulator
SCE1572_3041	AAA ATPase, central region	uni	sce_2324	36.64	ATPase, AAA family
SCE1572_3042	exonuclease SbcC	uni	sce_6493	28.96	Translation initiation factor 2
SCE1572_3043	hypothetical protein	-		0	
SCE1572_3044	hypothetical protein	uni	sce_5640	29.39	FIG01089683: hypothetical protein
SCE1572_3045	hypothetical protein	-		0	
SCE1572_3046	hypothetical protein	-		0	
SCE1572_3047	BclA protein	-		0	
SCE1572_3048	NHL repeat domain protein	uni	sce_1060	27.78	Soluble lytic murein transglycosylase precursor (EC 3.2.1.-)
SCE1572_3049	hypothetical protein	uni	sce_2333	26.73	FIG00500935: hypothetical protein
SCE1572_3050	hypothetical protein	uni	sce_2331	35.63	hypothetical protein
SCE1572_3051	hypothetical protein	uni	sce_2329	30.26	VgrG protein
SCE1572_3052	hypothetical protein	uni	sce_2328	27.78	hypothetical protein
SCE1572_3053	hypothetical protein	-		0	
SCE1572_3054	hypothetical protein	-		0	
SCE1572_3055	hypothetical protein	-		0	
SCE1572_3056	Phage tail sheath protein FI	uni	sce_9511	36.13	Mlr2351 protein
SCE1572_3057	hypothetical protein	uni	sce_2320	27.63	FIG01131549: hypothetical protein
SCE1572_3058	Phage tail sheath protein FI	uni	sce_2319	43.93	Phage tail sheath protein FI
SCE1572_3059	hypothetical protein	-		0	
SCE1572_3060	hypothetical protein	bi	sce_2323	26.27	conserved hypothetical protein; putative secreted protein
SCE1572_3061	hypothetical protein	bi	sce_7454	61.88	FIG01089015: hypothetical protein
SCE1572_3062	RNA polymerase sigma factor RpoE	bi	sce_7455	88.76	RNA polymerase sigma factor RpoE
SCE1572_3063	Flagellar regulatory protein FleQ	bi	sce_5710	72.9	Flagellar regulatory protein FleQ
SCE1572_3064	hypothetical protein	bi	sce_2609	67.77	hypothetical protein
SCE1572_3065	thioredoxin	bi	sce_2610	81.3	thioredoxin
SCE1572_3066	putative RNA polymerase ECF-subfamily sigma factor	bi	sce_2611	91.53	putative RNA polymerase ECF-subfamily sigma factor
SCE1572_3067	FIG01086884: hypothetical protein	bi	sce_2612	90.73	FIG01086884: hypothetical protein
SCE1572_3068	hypothetical protein	bi	sce_2614	85.23	FIG00485988: hypothetical protein
SCE1572_3069	Urease accessory protein UreD	bi	sce_7327	31.7	Urease accessory protein UreD
SCE1572_3070	Urease gamma subunit (EC 3.5.1.5)	bi	sce_7328	50.89	Urease gamma subunit (EC 3.5.1.5)
SCE1572_3071	Urease alpha subunit (EC 3.5.1.5)	bi	sce_7329	64	Urease alpha subunit (EC 3.5.1.5)
SCE1572_3072	Urease accessory protein UreE	bi	sce_8793	68	hypothetical protein
SCE1572_3073	Urease accessory protein UreF	bi	sce_7330	31.22	Urease accessory protein UreF
SCE1572_3074	Urease accessory protein UreG	bi	sce_7331	65.61	Urease accessory protein UreG
SCE1572_3075	hypothetical protein	-		0	
SCE1572_3076	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)	uni	sce_425	39.23	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)
SCE1572_3077	PE-PGRS FAMILY PROTEIN	uni	sce_2972	64.71	FIG01086339: hypothetical protein
SCE1572_3078	WD-repeat protein	uni	sce_3016	27.33	High-affnity carbon uptake protein Hat/HatR
SCE1572_3079	WD-40 repeat protein	uni	sce_3016	27.72	High-affnity carbon uptake protein Hat/HatR
SCE1572_3080	hypothetical protein	bi	sce_157	85.84	hypothetical protein
SCE1572_3081	FIG01086383: hypothetical protein	uni	sce_3918	82.63	FIG01086383: hypothetical protein
SCE1572_3082	contains ESTs D41575(S4159),AU097348(S4159) / putative extensin-like protein	bi	sce_1504	66.85	hypothetical protein
SCE1572_3083	Glycoprotein gp2	bi	sce_1503	60.96	Glycoprotein gp2
SCE1572_3084	FIG01089186: hypothetical protein	bi	sce_3936	80	FIG01089186: hypothetical protein
SCE1572_3085	hypothetical protein	uni	sce_7299	53.85	hypothetical protein
SCE1572_3086	DNA repair protein RadC	uni	sce_8398	53.85	DNA repair protein RadC
SCE1572_3087	hypothetical protein	-		0	
SCE1572_3088	hypothetical protein	uni	sce_514	37.65	hypothetical protein
SCE1572_3089	hypothetical protein	-		0	
SCE1572_3090	FIG01084927: hypothetical protein	bi	sce_160	62.38	hypothetical protein
SCE1572_3091	hypothetical protein	-		0	
SCE1572_3092	hypothetical protein	-		0	
SCE1572_3093	FIG01088041: hypothetical protein	bi	sce_2615	86.57	FIG01088041: hypothetical protein
SCE1572_3094	sigma-B regulator RsbR	uni	sce_7786	42.22	FIG00502110: hypothetical protein
SCE1572_3095	conserved hypothetical protein	uni	sce_394	29.32	FIG01087934: hypothetical protein
SCE1572_3096	hypothetical protein	-		0	
SCE1572_3097	predicted nucleoside-diphosphate-sugar epimerase	uni	sce_8057	33.33	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_3098	hypothetical protein	-		0	
SCE1572_3099	hypothetical protein	bi	sce_9462	42.39	hypothetical protein
SCE1572_3100	hypothetical protein	uni	sce_116	40.81	FIG01088201: hypothetical protein
SCE1572_3101	Hypothetical protein YaeJ with similarity to translation release factor	bi	sce_2618	90	Hypothetical protein YaeJ with similarity to translation release factor
SCE1572_3102	hypothetical protein	bi	sce_2619	80.49	Mobile element protein
SCE1572_3103	ADP-ribose pyrophosphatase (EC 3.6.1.13)	bi	sce_2621	93.41	ADP-ribose pyrophosphatase (EC 3.6.1.13)
SCE1572_3104	transcriptional regulator, AraC family	uni	sce_9985	39.45	Transcriptional regulator, AraC family
SCE1572_3105	lipase family protein	bi	sce_6302	50.49	lipase family protein
SCE1572_3106	hypothetical protein	-		0	
SCE1572_3107	FIG01087007: hypothetical protein	bi	sce_2623	87.58	FIG01087007: hypothetical protein
SCE1572_3108	FIG01088780: hypothetical protein	bi	sce_2624	90.84	FIG01088780: hypothetical protein
SCE1572_3109	Nicotinamidase (EC 3.5.1.19)	bi	sce_2625	94.17	Nicotinamidase (EC 3.5.1.19)
SCE1572_3110	Putative chaperonin	bi	sce_2626	88.73	Putative chaperonin
SCE1572_3111	Serine/threonine protein phosphatase	bi	sce_2627	84.86	Serine/threonine protein phosphatase
SCE1572_3112	FIG01086405: hypothetical protein	uni	sce_1111	76.19	FIG01086405: hypothetical protein
SCE1572_3113	Alpha-L-arabinofuranosidase II precursor (EC 3.2.1.55)	bi	sce_1386	90.59	Alpha-L-arabinofuranosidase II precursor (EC 3.2.1.55)

SCE1572_3114	COG5492: Bacterial surface proteins containing Ig-like domains	bi	sce_1387	91.88	COG5492: Bacterial surface proteins containing Ig-like domains
SCE1572_3115	Nudix-related transcriptional regulator NrtR	bi	sce_2628	94.32	Nudix-related transcriptional regulator NrtR
SCE1572_3116	RsbR, positive regulator of sigma-B	bi	sce_2629	71.17	RsbR, positive regulator of sigma-B
SCE1572_3117	Sll0670 protein	bi	sce_2630	79.37	ErfK/YbiS/YcfS/YnhG family protein, putative
SCE1572_3118	D-aminoacylase (EC 3.5.1.81)	bi	sce_2631	93.02	D-aminoacylase (EC 3.5.1.81)
SCE1572_3119	RNA polymerase sigma-70 factor, ECF subfamily	bi	sce_2632	88.89	RNA polymerase sigma-70 factor, ECF subfamily
SCE1572_3120	FIG01085649: hypothetical protein	bi	sce_2633	93.37	FIG01085649: hypothetical protein
SCE1572_3121	L-arabinose transport system permease protein (TC 3.A.1.2.2)	uni	sce_6146	34.49	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_3122	L-arabinose transport ATP-binding protein AraG (TC 3.A.1.2.2)	uni	sce_6147	46.52	D-xylose transport ATP-binding protein XylG
SCE1572_3123	L-arabinose-binding periplasmic protein precursor AraF (TC 3.A.1.2.2)	uni	sce_6717	35.38	Xylose ABC transporter, periplasmic xylose-binding protein XylF
SCE1572_3124	hypothetical protein	bi	sce_2634	83.85	hypothetical protein
SCE1572_3125	Gfa-like protein	bi	sce_2636	91.73	Gfa-like protein
SCE1572_3126	thioredoxin	bi	sce_2637	89.39	Thioredoxin
SCE1572_3127	hypothetical protein	bi	sce_6335	42.28	hypothetical protein
SCE1572_3128	hypothetical protein	uni	sce_6336	71.54	hypothetical protein
SCE1572_3129	hypothetical protein	uni	sce_6337	57.14	hypothetical protein
SCE1572_3130	pentapeptide repeat family protein	uni	sce_6338	53.76	Pentapeptide repeat family protein
SCE1572_3131	FIG01088856: hypothetical protein	uni	sce_6339	57.71	FIG01088856: hypothetical protein
SCE1572_3132	FIG01089519: hypothetical protein	uni	sce_6339	45.1	FIG01088856: hypothetical protein
SCE1572_3133	VgrG protein	uni	sce_6341	52.93	VgrG protein
SCE1572_3134	FIG01085998: hypothetical protein	uni	sce_6342	60.58	FIG01085998: hypothetical protein
SCE1572_3135	Transcriptional regulator, DeoR family	uni	sce_9911	44.59	Transcriptional regulator, DeoR family
SCE1572_3136	Oxidoreductase	uni	sce_10011	40.99	Oxidoreductase
SCE1572_3137	Serine/threonine protein kinase	uni	sce_3750	48.03	serine/threonine protein kinase with WD40 repeats
SCE1572_3138	hypothetical protein	bi	sce_2638	90.28	hypothetical protein
SCE1572_3139	hypothetical protein	bi	sce_2639	68.42	hypothetical protein
SCE1572_3140	Aminobenzoyl-glutamate transport protein	bi	sce_1537	85.25	Aminobenzoyl-glutamate transport protein
SCE1572_3141	RsbR, positive regulator of sigma-B	uni	sce_7640	51.81	RsbR, positive regulator of sigma-B
SCE1572_3142	HemK related protein	-		0	
SCE1572_3143	predicted protein	-		0	
SCE1572_3144	hypothetical protein	uni	sce_6789	28.18	hypothetical protein
SCE1572_3145	Coenzyme F420-dependent N5,N10-methylene tetrahydromethanopterin reductase and related flavin-dependent oxidoreductas	-		0	
SCE1572_3146	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	bi	sce_9834	34.48	Acyl-CoA dehydrogenase, short-chain specific (EC 1.3.99.2)
SCE1572_3147	putative Acyl-CoA dehydrogenase(EC:1.3.99.3)	-		0	
SCE1572_3148	Acyl-CoA dehydrogenase; probable dibenzothiophene desulfurization enzyme	uni	sce_677	24.62	Acyl-CoA dehydrogenases
SCE1572_3149	Alkanesulfonate monooxygenase (EC 1.14.14.5)	bi	sce_5504	86.81	Alkanesulfonate monooxygenase (EC 1.14.14.5)
SCE1572_3150	sigma54 specific transcriptional regulator, Fis family	uni	sce_1468	49.76	Alkanesulfonates-binding protein
SCE1572_3151	FMN reductase (EC 1.5.1.29)	bi	sce_2640	87.23	FMN reductase (EC 1.5.1.29)
SCE1572_3152	Bll2291 protein	bi	sce_2641	58.55	Bll2291 protein
SCE1572_3153	hypothetical protein	-		0	
SCE1572_3154	Dihydrolipoamide succinyltransferase component (E2) of 2-oxoglutarate dehydrogenase complex (EC 2.3.1.61)	bi	sce_2642	73.79	Dihydrolipoamide succinyltransferase component (E2) of 2-oxoglutarate dehydrogenase complex (EC 2.3.1.61)
SCE1572_3155	RNA polymerase sigma factor RpoE	bi	sce_2643	87.06	RNA polymerase sigma factor RpoE
SCE1572_3156	FIG01087210: hypothetical protein	bi	sce_2644	74.93	FIG01087210: hypothetical protein
SCE1572_3157	Catabolite control protein A	bi	sce_2645	75.48	Catabolite control protein A
SCE1572_3158	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_5229	47.14	Serine/threonine protein kinase
SCE1572_3159	Ammonium transporter	bi	sce_2654	93.35	Ammonium transporter
SCE1572_3160	hypothetical protein	bi	sce_10130	30.32	Transcriptional regulator, ArsR family
SCE1572_3161	Transcriptional regulator, ArsR family	bi	sce_10131	57.14	Transcriptional regulator, ArsR family
SCE1572_3162	4-alpha-glucanotransferase (amylomaltase) (EC 2.4.1.25)	bi	sce_2655	88.18	4-alpha-glucanotransferase (amylomaltase) (EC 2.4.1.25)
SCE1572_3163	Glycogen debranching enzyme (EC 3.2.1.-)	bi	sce_2656	93.08	Glycogen debranching enzyme (EC 3.2.1.-)
SCE1572_3164	putative lipoprotein	bi	sce_9942	84.24	putative lipoprotein
SCE1572_3165	hypothetical protein	bi	sce_9943	86.37	hypothetical protein
SCE1572_3166	hypothetical protein	bi	sce_9944	87.02	hypothetical protein
SCE1572_3167	Glutathione S-transferase (EC 2.5.1.18)	uni	sce_4136	54.55	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_3168	COG4615: ABC-type siderophore export system, fused ATPase and permease components	uni	sce_9235	47.38	putative ABC transporter (ATP-binding protein)
SCE1572_3169	[NiFe] hydrogenase metallocenter assembly protein HypF	bi	sce_5119	42.36	[NiFe] hydrogenase metallocenter assembly protein HypF
SCE1572_3170	[NiFe] hydrogenase metallocenter assembly protein HypE	uni	sce_5122	44.01	[NiFe] hydrogenase metallocenter assembly protein HypE
SCE1572_3171	Nicotinamidase (EC 3.5.1.19)	uni	sce_4937	32.05	Isochorismatase (EC 3.3.2.1)
SCE1572_3172	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_2666	44.05	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_3173	Ornithine cyclodeaminase (EC 4.3.1.12)	bi	sce_2667	54.6	Ornithine cyclodeaminase (EC 4.3.1.12)
SCE1572_3174	Cysteine synthase (EC 2.5.1.47)	bi	sce_2668	56.55	Putative siderophore biosynthesis protein, related to cysteine synthase
SCE1572_3175	Nodulation protein nolO (EC 2.1.3.-)	uni	sce_2688	36.16	Nodulation protein nolO (EC 2.1.3.-)
SCE1572_3176	hypothetical protein	uni	sce_7804	25.93	Butyryl-CoA dehydrogenase (EC 1.3.99.2)
SCE1572_3177	NODULATION PROTEIN NOLO	uni	sce_2688	30.07	Nodulation protein nolO (EC 2.1.3.-)
SCE1572_3178	hypothetical protein	-		0	
SCE1572_3179	transcriptional regulator, Fis family	uni	sce_2871	48.44	Transcriptional regulator BkdR of isoleucine and valine catabolism operon
SCE1572_3180	ATP-dependent DNA helicase RecQ	uni	sce_3239	42.6	ATP-dependent DNA helicase RecQ
SCE1572_3181	Malto-oligosyltrehalose synthase (EC 5.4.99.15)	bi	sce_2671	84.78	Malto-oligosyltrehalose synthase (EC 5.4.99.15)
SCE1572_3182	Malto-oligosyltrehalose trehalohydrolase (EC 3.2.1.141)	bi	sce_2672	89.44	Malto-oligosyltrehalose trehalohydrolase (EC 3.2.1.141)
SCE1572_3183	COG1720: Uncharacterized conserved protein	bi	sce_2673	86.62	COG1720: Uncharacterized conserved protein
SCE1572_3184	hypothetical protein	-		0	
SCE1572_3185	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_3006	46.85	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_3186	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_5211	45.12	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_3187	hypothetical protein	bi	sce_2677	71.05	hypothetical protein
SCE1572_3188	Cation-transporting ATPase	bi	sce_2679	77.48	Cation-transporting ATPase
SCE1572_3189	hypothetical protein	bi	sce_2680	79.79	hypothetical protein
SCE1572_3190	amino acid permease family protein	bi	sce_2681	78.46	amino acid permease family protein
SCE1572_3191	hypothetical protein	bi	sce_2683	91.67	hypothetical protein
SCE1572_3192	Phage tail fiber protein	bi	sce_2684	61.96	Phage tail fiber protein
SCE1572_3193	Carbamoyl-phosphate synthase large chain (EC 6.3.5.5)	bi	sce_2685	96.51	Carbamoyl-phosphate synthase large chain (EC 6.3.5.5)
SCE1572_3194	Carbamoyl-phosphate synthase small chain (EC 6.3.5.5)	bi	sce_2686	95.36	Carbamoyl-phosphate synthase small chain (EC 6.3.5.5)
SCE1572_3195	hypothetical protein	bi	sce_2687	65.79	hypothetical protein
SCE1572_3196	Nodulation protein nolO (EC 2.1.3.-)	bi	sce_2688	92.97	Nodulation protein nolO (EC 2.1.3.-)
SCE1572_3197	Molybdopterin biosynthesis protein MoeA	bi	sce_2689	91.36	Molybdopterin biosynthesis protein MoeA
SCE1572_3198	Molybdenum cofactor biosynthesis protein MoaB	bi	sce_2690	88.14	Molybdenum cofactor biosynthesis protein MoaB
SCE1572_3199	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)	bi	sce_2692	90.4	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)
SCE1572_3200	RNA-binding protein	bi	sce_2694	96.92	RNA-binding region RNP-1 (RNA recognition motif)
SCE1572_3201	LSU ribosomal protein L33p	bi	sce_2695	100	LSU ribosomal protein L33p
SCE1572_3202	Rod shape-determining protein MreB	bi	sce_2696	99.42	Rod shape-determining protein MreB
SCE1572_3203	Rod shape-determining protein MreC	bi	sce_2697	98.6	Rod shape-determining protein MreC
SCE1572_3204	hypothetical protein	bi	sce_2698	97.7	hypothetical protein
SCE1572_3205	Penicillin-binding protein 2 (PBP-2)	bi	sce_2699	97.7	Penicillin-binding protein 2 (PBP-2)
SCE1572_3206	Rod shape-determining protein RodA	bi	sce_2700	97.09	Rod shape-determining protein RodA
SCE1572_3207	gliding motility protein MglA	bi	sce_2701	89.53	gliding motility protein MglA
SCE1572_3208	PA14 domain protein	bi	sce_2702	88.46	PA14 domain protein
SCE1572_3209	Rhomboid family membrane protein	bi	sce_2703	82.77	Rhomboid family membrane protein
SCE1572_3210	sigma-24	bi	sce_2704	91.96	putative RNA polymerase sigma factor
SCE1572_3211	hypothetical protein	bi	sce_2705	80.61	hypothetical protein
SCE1572_3212	hypothetical protein	bi	sce_2706	86.34	hypothetical protein
SCE1572_3213	tetratricopeptide repeat protein	bi	sce_2707	74.04	DnaJ domain protein
SCE1572_3214	hypothetical protein	-		0	
SCE1572_3215	Chaperone protein DnaK	bi	sce_2708	99.67	Chaperone protein DnaK
SCE1572_3216	Tetratricopeptide TPR_2 repeat protein	bi	sce_2709	83.93	hypothetical protein
SCE1572_3217	putative metallopeptidase	bi	sce_2710	82.15	Zn-dependent aminopeptidase, putative
SCE1572_3218	hypothetical protein	bi	sce_2711	80.13	Conjugative transfer protein TrbL
SCE1572_3219	twitching motility protein PilH	bi	sce_2712	95.03	twitching motility protein PilH
SCE1572_3220	hypothetical protein	bi	sce_2713	77.48	hypothetical protein
SCE1572_3221	FIG01087708: hypothetical protein	bi	sce_2714	71.43	FIG01087708: hypothetical protein
SCE1572_3222	hypothetical protein	bi	sce_2715	92.48	hypothetical protein
SCE1572_3223	hypothetical protein	bi	sce_2716	78.01	hypothetical protein
SCE1572_3224	LigA	uni	sce_3858	38.22	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_3225	FIG01088928: hypothetical protein	bi	sce_2717	85.22	FIG01088928: hypothetical protein
SCE1572_3226	gliding motility protein GldF	bi	sce_2718	97.58	gliding motility protein GldF
SCE1572_3227	ABC transporter, ATP-binding protein	bi	sce_2719	87.15	ABC transporter
SCE1572_3228	hypothetical protein	bi	sce_2720	98.71	hypothetical protein
SCE1572_3229	FIG01089310: hypothetical protein	bi	sce_2721	95.89	FIG01089310: hypothetical protein
SCE1572_3230	Response regulator receiver:Transcriptional regulatory protein, C- terminal precursor	bi	sce_2722	96.71	Response regulator receiver:Transcriptional regulatory protein, C- terminal precursor
SCE1572_3231	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)	bi	sce_2723	87.1	sensor histidine kinase
SCE1572_3232	Pyrimidine-nucleoside phosphorylase (EC 2.4.2.2)	bi	sce_2724	94.27	Pyrimidine-nucleoside phosphorylase (EC 2.4.2.2)
SCE1572_3233	putative Cytochrome bd2, subunit I	bi	sce_2726	92.29	putative Cytochrome bd2, subunit I
SCE1572_3234	putative Cytochrome bd2, subunit II	bi	sce_2727	91.81	putative Cytochrome bd2, subunit II
SCE1572_3235	Muc19 precursor	bi	sce_2728	74.41	bacterial Ig-like domain protein
SCE1572_3236	OmpA domain protein	bi	sce_2732	87.32	OmpA domain protein
SCE1572_3237	hypothetical protein	-		0	
SCE1572_3238	hypothetical protein	bi	sce_2733	89.51	hypothetical protein
SCE1572_3239	hypothetical protein	bi	sce_2734	81.56	hypothetical protein
SCE1572_3240	hypothetical protein	-		0	
SCE1572_3241	Bll3113 protein	bi	sce_2735	82.16	Bll3113 protein
SCE1572_3242	hypothetical protein	bi	sce_2736	65.41	hypothetical protein
SCE1572_3243	FIG01086461: hypothetical protein	bi	sce_2737	79.3	FIG01086461: hypothetical protein
SCE1572_3244	hypothetical protein	bi	sce_2738	87.23	hypothetical protein
SCE1572_3245	GntR family transcriptional regulator	bi	sce_2740	93.43	putative Fe-S oxidoreductase
SCE1572_3246	Lysine 2,3-aminomutase (EC 5.4.3.2)	bi	sce_2741	96.31	Lysine 2,3-aminomutase (EC 5.4.3.2)
SCE1572_3247	Lytic transglycosylase, catalytic	bi	sce_2742	90.6	soluble lytic murein transglycosylase
SCE1572_3248	hypothetical protein	bi	sce_2744	92.55	hypothetical protein
SCE1572_3249	FIG01085742: hypothetical protein	bi	sce_2745	91.18	FIG01085742: hypothetical protein
SCE1572_3250	hypothetical protein	bi	sce_2746	91.2	hypothetical protein
SCE1572_3251	hypothetical protein	bi	sce_2747	71.43	hypothetical protein
SCE1572_3252	Biosynthetic arginine decarboxylase (EC 4.1.1.19)	bi	sce_2748	97.98	Biosynthetic arginine decarboxylase (EC 4.1.1.19)
SCE1572_3253	ABC transporter involved in cytochrome c biogenesis, CcmB subunit	bi	sce_2749	93	ABC transporter involved in cytochrome c biogenesis, CcmB subunit
SCE1572_3254	sarcosine oxidase, subunit alpha	bi	sce_2750	89.39	pyridine nucleotide-disulphide oxidoreductase
SCE1572_3255	FIG01087618: hypothetical protein	bi	sce_2751	92.34	FIG01087618: hypothetical protein
SCE1572_3256	nicotinate-nucleotide adenylyltransferase	bi	sce_2752	85.14	nicotinate-nucleotide adenylyltransferase
SCE1572_3257	FIG173306: hypothetical protein	bi	sce_2753	87.2	FIG173306: hypothetical protein
SCE1572_3258	Flagellar regulatory protein FleQ	uni	sce_2754	75.37	Flagellar regulatory protein FleQ
SCE1572_3259	Flagellar regulatory protein FleQ	bi	sce_2754	82.11	Flagellar regulatory protein FleQ
SCE1572_3260	hypothetical protein	bi	sce_2755	42.11	hypothetical protein
SCE1572_3261	Sensor protein of zinc sigma-54-dependent two-component system	bi	sce_2756	96.77	Sensor protein of zinc sigma-54-dependent two-component system
SCE1572_3262	3,5-diaminohexanoate dehydrogenase (EC 1.4.1.11)	bi	sce_2757	89.3	3,5-diaminohexanoate dehydrogenase (EC 1.4.1.11)
SCE1572_3263	FHA domain protein	bi	sce_2758	97.62	FHA domain protein
SCE1572_3264	Histidinol dehydrogenase (EC 1.1.1.23)	bi	sce_2759	94.58	Histidinol dehydrogenase (EC 1.1.1.23)
SCE1572_3265	hypothetical protein	-		0	
SCE1572_3266	hypothetical protein	bi	sce_2760	91.32	hypothetical protein
SCE1572_3267	Serine/threonine protein kinase PrkC, regulator of stationary phase	bi	sce_2761	85.58	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_3268	hypothetical protein	bi	sce_2762	97.53	hypothetical protein
SCE1572_3269	Uracil phosphoribosyltransferase (EC 2.4.2.9)	bi	sce_2764	94.35	Uracil phosphoribosyltransferase (EC 2.4.2.9)
SCE1572_3270	hypothetical protein	bi	sce_2765	94.15	FIG00841391: hypothetical protein
SCE1572_3271	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_2766	94.83	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_3272	Type IV fimbrial assembly, ATPase PilB	-		0	
SCE1572_3273	Type IV fimbrial assembly, ATPase PilB	bi	sce_2767	80.99	Type IV fimbrial assembly, ATPase PilB
SCE1572_3274	Alpha-methylacyl-CoA racemase (EC 5.1.99.4)	bi	sce_2768	88.97	Alpha-methylacyl-CoA racemase (EC 5.1.99.4)
SCE1572_3275	putative sterol carrier protein	bi	sce_2769	91.23	Short chain dehydrogenase
SCE1572_3276	FIG01087831: hypothetical protein	bi	sce_2770	82.2	FIG01087831: hypothetical protein
SCE1572_3277	hypothetical protein	-		0	

SCE1572_3278	Exodeoxyribonuclease VII large subunit (EC 3.1.11.6)	bi	sce_2773	92.62	Exodeoxyribonuclease VII large subunit (EC 3.1.11.6)
SCE1572_3279	Shikimate 5-dehydrogenase I alpha (EC 1.1.1.25)	bi	sce_2774	92.07	Shikimate 5-dehydrogenase I alpha (EC 1.1.1.25)
SCE1572_3280	Putative glycogen debranching enzyme, archaeal type, TIGR01561	bi	sce_2775	91	Glycogen debranching enzyme, archaeal type
SCE1572_3281	FIG01086308: hypothetical protein	bi	sce_2776	88.01	FIG01086308: hypothetical protein
SCE1572_3282	hypothetical protein	-		0	
SCE1572_3283	membrane protein	bi	sce_2777	86.43	FIG01088637: hypothetical protein
SCE1572_3284	TPR/glycosyl transferase domain protein	uni	sce_1155	28.19	TPR/glycosyl transferase domain protein
SCE1572_3285	O antigen biosynthesis rhamnosyltransferase rfbN (EC 2.4.1.-)	bi	sce_2782	95.25	O antigen biosynthesis rhamnosyltransferase rfbN (EC 2.4.1.-)
SCE1572_3286	hypothetical protein	bi	sce_2778	79.5	Methyltransferase type 11
SCE1572_3287	hypothetical protein	-		0	
SCE1572_3288	cation-transporting ATPase, E1-E2 family	bi	sce_2785	91.12	cation-transporting ATPase
SCE1572_3289	hypothetical protein	uni	sce_397	37.32	FIG01086142: hypothetical protein
SCE1572_3290	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_6737	43.39	FIG01086993: hypothetical protein
SCE1572_3291	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	uni	sce_4693	42.71	FIG01089683: hypothetical protein
SCE1572_3292	UDP-N-acetylglucosamine 2-epimerase (EC 5.1.3.14)	bi	sce_2786	97.04	UDP-N-acetylglucosamine 2-epimerase (EC 5.1.3.14)
SCE1572_3293	Type IV pilin PilA	bi	sce_2787	85	Type IV pilin PilA
SCE1572_3294	Gll3191 protein	uni	sce_2788	71.96	Gll3191 protein
SCE1572_3295	Gll3191 protein	bi	sce_2788	80.89	Gll3191 protein
SCE1572_3296	hypothetical protein	-		0	
SCE1572_3297	Phosphoenolpyruvate-dihydroxyacetone phosphotransferase (EC 2.7.1.121), subunit DhaM; DHA-specific IIA component / D	bi	sce_2789	87.89	Phosphoenolpyruvate-dihydroxyacetone phosphotransferase (EC 2.7.1.121), subunit DhaM; DHA-specific IIA component / DHA-sp
SCE1572_3298	Phosphoenolpyruvate-dihydroxyacetone phosphotransferase (EC 2.7.1.121), ADP-binding subunit DhaL	bi	sce_2790	81.19	Phosphoenolpyruvate-dihydroxyacetone phosphotransferase (EC 2.7.1.121), ADP-binding subunit DhaL
SCE1572_3299	Phosphoenolpyruvate-dihydroxyacetone phosphotransferase (EC 2.7.1.121), dihydroxyacetone binding subunit DhaK	bi	sce_2791	91.87	Phosphoenolpyruvate-dihydroxyacetone phosphotransferase (EC 2.7.1.121), dihydroxyacetone binding subunit DhaK
SCE1572_3300	Vng1746c	bi	sce_2792	85.71	Vng1746c
SCE1572_3301	Hydrolase, alpha/beta fold family functionally coupled to Phosphoribulokinase	bi	sce_2793	84.54	Hydrolase, alpha/beta fold family functionally coupled to Phosphoribulokinase
SCE1572_3302	hypothetical protein	bi	sce_2794	69.5	putative lipoprotein
SCE1572_3303	peptidase M50	uni	sce_5718	44.54	FIG01087803: hypothetical protein
SCE1572_3304	hypothetical protein	uni	sce_8874	35.09	putative membrane protein
SCE1572_3305	Di-/tripeptide transporter	uni	sce_6349	24.84	Di-/tripeptide transporter
SCE1572_3306	Hemolysins and related proteins containing CBS domains	bi	sce_2797	88.05	CBS domain containing protein
SCE1572_3307	2-keto-3-deoxy-D-arabino-heptulosonate-7-phosphate synthase I alpha (EC 2.5.1.54)	bi	sce_2798	97.46	2-keto-3-deoxy-D-arabino-heptulosonate-7-phosphate synthase I alpha (EC 2.5.1.54)
SCE1572_3308	RNA polymerase sigma factor	bi	sce_2799	65.15	RNA polymerase sigma factor
SCE1572_3309	RNA polymerase sigma factor RpoE	bi	sce_2800	67.48	RNA polymerase sigma factor RpoE
SCE1572_3310	FIG01085648: hypothetical protein	bi	sce_2801	67.29	FIG01085648: hypothetical protein
SCE1572_3311	hypothetical protein	bi	sce_2802	86.06	FIG01085160: hypothetical protein
SCE1572_3312	hypothetical protein	bi	sce_2804	64.04	FIG01086383: hypothetical protein
SCE1572_3313	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_2805	75.7	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_3314	FIG01086896: hypothetical protein	bi	sce_2807	90.34	FIG01086896: hypothetical protein
SCE1572_3315	hypothetical protein	bi	sce_2808	61.96	hypothetical protein
SCE1572_3316	Oxidoreductase	bi	sce_2811	83.98	Oxidoreductase
SCE1572_3317	Sodium/hydrogen exchanger	bi	sce_2812	92.07	Sodium/hydrogen exchanger
SCE1572_3318	PTS system, fructose-specific IIA component (EC 2.7.1.69) / PTS system, fructose-specific IIB component (EC 2.7.1.69) / PT	bi	sce_2813	85.96	PTS system, fructose-specific IIA component (EC 2.7.1.69) / PTS system, fructose-specific IIB component (EC 2.7.1.69) / PTS syste
SCE1572_3319	Cell division protein FtsH (EC 3.4.24.-)	bi	sce_2814	69.4	Cell division protein FtsH (EC 3.4.24.-)
SCE1572_3320	TonB family protein / TonB-dependent receptor	bi	sce_2815	88.16	TonB family protein / TonB-dependent receptor
SCE1572_3321	ABC transporter family protein	bi	sce_2816	94.73	ABC transporter ATP-binding protein
SCE1572_3322	hypothetical protein	bi	sce_2817	77.78	hypothetical protein
SCE1572_3323	hypothetical protein	-		0	
SCE1572_3324	putative protein phosphatase	bi	sce_2819	62.56	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_3325	FIG01087684: hypothetical protein	bi	sce_2820	93.54	FIG01087684: hypothetical protein
SCE1572_3326	hypothetical protein	bi	sce_2821	84.04	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)
SCE1572_3327	LSU ribosomal protein L19p	bi	sce_2822	99.15	LSU ribosomal protein L19p
SCE1572_3328	RNA-binding protein Jag	bi	sce_2823	98.4	RNA-binding protein Jag
SCE1572_3329	Inner membrane protein translocase component YidC, long form	bi	sce_2824	91.41	Inner membrane protein translocase component YidC, long form
SCE1572_3330	Protein YidD	bi	sce_2826	88.98	Protein YidD
SCE1572_3331	Ribonuclease P protein component (EC 3.1.26.5)	bi	sce_2827	71.96	Ribonuclease P protein component (EC 3.1.26.5)
SCE1572_3332	LSU ribosomal protein L34p	bi	sce_2828	100	LSU ribosomal protein L34p
SCE1572_3333	Flagellar motor rotation protein MotB	bi	sce_2829	85.79	Flagellar motor rotation protein MotB
SCE1572_3334	hypothetical protein	-		0	
SCE1572_3335	Thymidylate kinase (EC 2.7.4.9)	bi	sce_2831	84.85	Thymidylate kinase (EC 2.7.4.9)
SCE1572_3336	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)	bi	sce_2832	91.22	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)
SCE1572_3337	Probable acyl-[acyl-carrier protein] desaturase DESA1 (Acyl-[ACP] desaturase) (Stearoyl-ACP desaturase) (Protein DES) (EC	bi	sce_2833	93.49	Probable acyl-[acyl-carrier protein] desaturase DESA1 (Acyl-[ACP] desaturase) (Stearoyl-ACP desaturase) (Protein DES) (EC 1.14.
SCE1572_3338	hypothetical protein	bi	sce_2834	97.53	hypothetical protein
SCE1572_3339	Cyclopropane-fatty-acyl-phospholipid synthase (EC 2.1.1.79)	bi	sce_2835	96.94	Cyclopropane-fatty-acyl-phospholipid synthase (EC 2.1.1.79)
SCE1572_3340	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_2836	90.12	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_3341	conserved hypothetical protein	bi	sce_2837	86.03	conserved hypothetical protein
SCE1572_3342	gliding motility protein GldG	bi	sce_2838	94.14	gliding motility protein GldG
SCE1572_3343	gliding motility protein GldF	bi	sce_2839	95.08	gliding motility protein GldF
SCE1572_3344	ABC transporter, ATP-binding protein	bi	sce_2840	94.7	ABC transporter, ATP-binding protein
SCE1572_3345	Aspartokinase (EC 2.7.2.4)	bi	sce_2841	96.87	Aspartokinase (EC 2.7.2.4)
SCE1572_3346	FIG01086900: hypothetical protein	uni	sce_1515	50.65	PE-PGRS FAMILY PROTEIN
SCE1572_3347	hypothetical protein	uni	sce_1146	35.85	Gll0645 protein
SCE1572_3348	hypothetical protein	uni	sce_6336	75	hypothetical protein
SCE1572_3349	hypothetical protein	uni	sce_7601	42.16	FIG01088521: hypothetical protein
SCE1572_3350	pentapeptide repeat family protein	uni	sce_6338	50.15	Pentapeptide repeat family protein
SCE1572_3351	Pentapeptide repeat	uni	sce_6339	45.78	FIG01088856: hypothetical protein
SCE1572_3352	FIG01085706: hypothetical protein	bi	sce_2846	88.38	FIG01085706: hypothetical protein
SCE1572_3353	hypothetical protein	-		0	
SCE1572_3354	hypothetical protein	-		0	
SCE1572_3355	VgrG protein	uni	sce_9335	34.4	VgrG protein
SCE1572_3356	hypothetical protein	bi	sce_8990	37.04	FIG01085999: hypothetical protein
SCE1572_3357	hypothetical protein	-		0	
SCE1572_3358	FIG01089237: hypothetical protein	bi	sce_2848	70.85	FIG01089237: hypothetical protein
SCE1572_3359	Gll0274 protein	bi	sce_2849	86.47	Gll0274 protein
SCE1572_3360	OmpA/MotB domain protein	bi	sce_2850	76.63	serine/threonine protein kinase
SCE1572_3361	hypothetical protein	-		0	
SCE1572_3362	conserved hypothetical protein	uni	sce_973	43.99	hypothetical protein
SCE1572_3363	FIG01089687: hypothetical protein	bi	sce_2851	87.91	FIG01089687: hypothetical protein
SCE1572_3364	FIG01087855: hypothetical protein	bi	sce_2853	90.52	FIG01087855: hypothetical protein
SCE1572_3365	Chromosome partition protein smc	bi	sce_2854	79.55	Chromosome partition protein smc
SCE1572_3366	Octanoate-[acyl-carrier-protein]-protein-N-octanoyltransferase	bi	sce_2855	88.3	Octanoate-[acyl-carrier-protein]-protein-N-octanoyltransferase
SCE1572_3367	HAMP domain/GAF domain/HD domain protein	bi	sce_2856	95.76	HAMP domain/GAF domain/HD domain protein
SCE1572_3368	RNA methyltransferase, TrmA family	bi	sce_2857	95.95	RNA methyltransferase, TrmA family
SCE1572_3369	Copper resistance protein B	bi	sce_2859	77.64	Copper resistance protein B
SCE1572_3370	Frataxin homolog CyaY, facilitates iron supply for heme A synthesis or Fe-S cluster assembly	bi	sce_2860	88.39	Frataxin homolog CyaY, facilitates iron supply for heme A synthesis or Fe-S cluster assembly
SCE1572_3371	NAD-dependent aldehyde dehydrogenases	bi	sce_2861	91.37	NAD-dependent aldehyde dehydrogenases
SCE1572_3372	Phosphonoacetate hydrolase (EC 3.11.1.2)	bi	sce_2862	90.83	Phosphonoacetate hydrolase (EC 3.11.1.2)
SCE1572_3373	hypothetical protein	bi	sce_2863	89.77	hypothetical protein
SCE1572_3374	Undecaprenyl pyrophosphate synthetase (EC 2.5.1.31)	bi	sce_2864	94.69	Undecaprenyl diphosphate synthase (EC 2.5.1.31)
SCE1572_3375	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)	bi	sce_2865	95.2	two component sensor regulator
SCE1572_3376	two component transcriptional regulator, winged helix family	bi	sce_2866	93.97	Response regulator BaeR
SCE1572_3377	hypothetical protein	bi	sce_7568	31.03	FIG01087433: hypothetical protein
SCE1572_3378	hypothetical protein	bi	sce_7569	32.26	hypothetical protein
SCE1572_3379	hypothetical protein	uni	sce_8806	32.58	hypothetical protein
SCE1572_3380	FIG01085195: hypothetical protein	bi	sce_2867	92.15	FIG01085195: hypothetical protein
SCE1572_3381	hypothetical protein	bi	sce_2868	74.48	RNA-binding protein
SCE1572_3382	hypothetical protein	bi	sce_2869	80.22	hypothetical protein
SCE1572_3383	FIG01088125: hypothetical protein	bi	sce_2870	82.64	FIG01088125: hypothetical protein
SCE1572_3384	Transcriptional regulator BkdR of isoleucine and valine catabolism operon	bi	sce_2871	96.26	Transcriptional regulator BkdR of isoleucine and valine catabolism operon
SCE1572_3385	protein kinase domain protein	bi	sce_2872	88.37	protein kinase domain protein
SCE1572_3386	hypothetical protein	-		0	
SCE1572_3387	hypothetical protein	bi	sce_2873	88.31	hypothetical protein
SCE1572_3388	ABC transporter related	bi	sce_2874	73.62	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)
SCE1572_3389	hypothetical protein	bi	sce_2875	83.86	hypothetical protein
SCE1572_3390	FIG01084868: hypothetical protein	bi	sce_2876	96.3	FIG01084868: hypothetical protein
SCE1572_3391	FIG01087686: hypothetical protein	bi	sce_2877	81.56	FIG01087686: hypothetical protein
SCE1572_3392	Iron-sulfur cluster-binding protein	bi	sce_2878	94.48	Iron-sulfur cluster-binding protein
SCE1572_3393	hypothetical protein	bi	sce_2879	81.63	hypothetical protein
SCE1572_3394	tmRNA-binding protein SmpB	bi	sce_2880	92.4	tmRNA-binding protein SmpB
SCE1572_3395	hypothetical protein	bi	sce_2881	74.16	hypothetical protein
SCE1572_3396	Phage tail fiber protein	bi	sce_2882	64.81	Phage tail fiber protein
SCE1572_3397	Excinuclease ABC subunit A, dimeric form	bi	sce_2884	95.12	Excinuclease ABC subunit A, dimeric form
SCE1572_3398	FIG01085236: hypothetical protein	bi	sce_2885	94.92	FIG01085236: hypothetical protein
SCE1572_3399	hypothetical protein	uni	sce_2821	34.09	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)
SCE1572_3400	Serine/threonine-protein kinase pksC (EC 2.7.11.1)	bi	sce_2887	84.2	Serine/threonine-protein kinase pksC (EC 2.7.11.1)
SCE1572_3401	hypothetical protein	-		0	
SCE1572_3402	Quinolinate phosphoribosyltransferase [decarboxylating] (EC 2.4.2.19)	bi	sce_2889	90.81	Quinolinate phosphoribosyltransferase [decarboxylating] (EC 2.4.2.19)
SCE1572_3403	Biotin-protein ligase (EC 6.3.4.15) / Biotin operon repressor	bi	sce_2890	87.13	Biotin-protein ligase (EC 6.3.4.15) / Biotin operon repressor
SCE1572_3404	Queuosine Biosynthesis QueE Radical SAM	bi	sce_2891	94.01	Queuosine Biosynthesis QueE Radical SAM
SCE1572_3405	Fructose-1,6-bisphosphatase, type I (EC 3.1.3.11)	bi	sce_2892	94.51	Fructose-1,6-bisphosphatase, type I (EC 3.1.3.11)
SCE1572_3406	Fructose-bisphosphate aldolase class I (EC 4.1.2.13)	bi	sce_2893	93.83	Fructose-bisphosphate aldolase class I (EC 4.1.2.13)
SCE1572_3407	Cytosol aminopeptidase PepA (EC 3.4.11.1)	bi	sce_2894	91.7	Cytosol aminopeptidase PepA (EC 3.4.11.1)
SCE1572_3408	tRNA(Cytosine32)-2-thiocytidine synthetase	bi	sce_2895	94.51	tRNA(Cytosine32)-2-thiocytidine synthetase
SCE1572_3409	FIG01088818: hypothetical protein	bi	sce_2896	82.5	FIG01088818: hypothetical protein
SCE1572_3410	hypothetical protein	bi	sce_2897	96.67	hypothetical protein
SCE1572_3411	FIG01084979: hypothetical protein	bi	sce_2898	77	FIG01084979: hypothetical protein
SCE1572_3412	hypothetical protein	bi	sce_2899	92.17	hypothetical protein
SCE1572_3413	hypothetical protein	-		0	
SCE1572_3414	Monofunctional biosynthetic peptidoglycan transglycosylase (EC 2.4.2.-)	bi	sce_2900	85.11	Monofunctional biosynthetic peptidoglycan transglycosylase (EC 2.4.2.-)
SCE1572_3415	tRNA-specific adenosine-34 deaminase (EC 3.5.4.-)	bi	sce_2901	83.24	tRNA-specific adenosine-34 deaminase (EC 3.5.4.-)
SCE1572_3416	hypothetical protein	bi	sce_2903	80.98	hypothetical protein
SCE1572_3417	thioredoxin family protein	bi	sce_2904	87.67	Thioredoxin-like
SCE1572_3418	Carbon monoxide oxidation accessory protein CoxE	bi	sce_2905	91.22	hypothetical protein
SCE1572_3419	Methylcrotonyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.1.4)	bi	sce_2906	98.25	Methylcrotonyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.1.4)
SCE1572_3420	Probable Ser-type protease	bi	sce_2907	84.63	hypothetical protein
SCE1572_3421	probable aminotransferase	bi	sce_2908	93.73	probable aminotransferase
SCE1572_3422	FIG01085945: hypothetical protein	bi	sce_2909	89.17	ErfK/YbiS/YcfS/YnhG family protein, putative
SCE1572_3423	hypothetical protein	bi	sce_2910	90.38	hypothetical protein
SCE1572_3424	hypothetical abductin-like protein	bi	sce_2911	88.11	hypothetical abductin-like protein
SCE1572_3425	Ser/Thr protein phosphatase family protein	bi	sce_2912	85.71	hypothetical protein
SCE1572_3426	Potassium efflux system KefA protein / Small-conductance mechanosensitive channel	uni	sce_5877	34.52	hypothetical protein
SCE1572_3427	Probable hemagglutinin-related protein	bi	sce_2913	73.69	Probable hemagglutinin-related protein
SCE1572_3428	hypothetical protein	-		0	
SCE1572_3429	FIG01084989: hypothetical protein	bi	sce_2914	82.35	FIG01084989: hypothetical protein
SCE1572_3430	FIG01085576: hypothetical protein	bi	sce_2915	91.06	FIG01085576: hypothetical protein
SCE1572_3431	hypothetical protein	bi	sce_2916	65.97	hypothetical protein
SCE1572_3432	hypothetical protein	bi	sce_2917	91.02	hypothetical protein
SCE1572_3433	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)	bi	sce_2918	86.83	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)
SCE1572_3434	Periplasmic beta-glucosidase	bi	sce_2919	89.73	Beta-glucosidase (EC 3.2.1.21)
SCE1572_3435	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_2920	81.21	short-chain dehydrogenase
SCE1572_3436	Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA	bi	sce_2925	88.4	hypothetical protein
SCE1572_3437	Enoyl-[acyl-carrier-protein] reductase [NADPH] (EC 1.3.1.10)	bi	sce_2931	96.43	Enoyl-[acyl-carrier-protein] reductase [NADPH] (EC 1.3.1.10)
SCE1572_3438	hypothetical protein	-		0	
SCE1572_3439	Aldo/keto reductase(EC:1.1.1.91)	bi	sce_2932	95.47	putative oxidoreductase
SCE1572_3440	hypothetical protein	bi	sce_8751	30.42	hypothetical protein
SCE1572_3441	RNA polymerase sigma factor SigB	bi	sce_2933	71.06	RNA polymerase sigma factor SigB

SCE1572_3442	Ribonuclease J2 (endoribonuclease in RNA processing)	bi	sce_2934	94.52	beta-lactamase domain protein
SCE1572_3443	hypothetical protein	bi	sce_2935	75	hypothetical protein
SCE1572_3444	RsbR, positive regulator of sigma-B	uni	sce_5835	47.11	putative PAS/PAC sensor protein
SCE1572_3445	FIG00841528: hypothetical protein	uni	sce_225	67.06	FIG00841528: hypothetical protein
SCE1572_3446	hypothetical protein	-		0	
SCE1572_3447	FIG01087229: hypothetical protein	bi	sce_2939	81.67	hypothetical protein
SCE1572_3448	Serine phosphatase RsbU, regulator of sigma subunit	bi	sce_2940	82.55	Serine phosphatase RsbU, regulator of sigma subunit
SCE1572_3449	Cytosine/purine/uracil/thiamine/allantoin permease family protein	bi	sce_2941	88.07	Cytosine/purine/uracil/thiamine/allantoin permease family protein
SCE1572_3450	Conservative hypothetical protein probably involved in hydantoin, pyrimidine utilization	bi	sce_2942	87.29	Conservative hypothetical protein probably involved in hydantoin, pyrimidine utilization
SCE1572_3451	N-methylhydantoinase (ATP-hydrolyzing) (EC 3.5.2.14)	bi	sce_2943	84.96	N-methylhydantoinase (ATP-hydrolyzing) (EC 3.5.2.14)
SCE1572_3452	N-methylhydantoinase B (EC 3.5.2.14)	bi	sce_2944	92.13	N-methylhydantoinase B (EC 3.5.2.14)
SCE1572_3453	N-methylhydantoinase A (EC 3.5.2.14)	bi	sce_2945	89.78	N-methylhydantoinase A (EC 3.5.2.14)
SCE1572_3454	conserved hypothetical protein	uni	sce_1469	49.85	FIG01086976: hypothetical protein
SCE1572_3455	MG(2) CHELATASE FAMILY PROTEIN / ComM-related protein	bi	sce_2946	92.32	MG(2) CHELATASE FAMILY PROTEIN / ComM-related protein
SCE1572_3456	RecA protein	bi	sce_2947	97.95	RecA protein
SCE1572_3457	hypothetical protein	-		0	
SCE1572_3458	Single-stranded DNA-binding protein	bi	sce_2948	92.41	Single-stranded DNA-binding protein
SCE1572_3459	hypothetical protein	bi	sce_2952	47.53	hypothetical protein
SCE1572_3460	hypothetical protein	bi	sce_2953	55.29	FIG01086872: hypothetical protein
SCE1572_3461	conserved hypothetical protein	bi	sce_2954	86.39	hypothetical protein
SCE1572_3462	hypothetical protein	bi	sce_2955	83.15	hypothetical protein
SCE1572_3463	hypothetical protein	bi	sce_2956	86.13	hypothetical protein
SCE1572_3464	Transcription-repair coupling factor	bi	sce_2957	91.72	Transcription-repair coupling factor
SCE1572_3465	hypothetical protein	-		0	
SCE1572_3466	hypothetical protein	-		0	
SCE1572_3467	hypothetical protein	bi	sce_2958	86.36	Uncharacterized conserved protein
SCE1572_3468	hypothetical protein	bi	sce_2960	74.42	hypothetical protein
SCE1572_3469	EBNA-1	bi	sce_2962	75.46	Uncharacterized protein with a C-terminal OMP (outer membrane protein) domain
SCE1572_3470	FIG01089305: hypothetical protein	bi	sce_2963	86.24	FIG01089305: hypothetical protein
SCE1572_3471	hypothetical protein	-		0	
SCE1572_3472	putative lipoprotein	bi	sce_2964	76.83	loricrin
SCE1572_3473	hypothetical protein	bi	sce_2965	70.06	FIG01089285: hypothetical protein
SCE1572_3474	Gll0645 protein	bi	sce_2966	80.83	Gll0645 protein
SCE1572_3475	FIG01086691: hypothetical protein	bi	sce_2967	81.59	FIG01086691: hypothetical protein
SCE1572_3476	putative oxidoreductase protein	bi	sce_2969	85.19	putative oxidoreductase protein
SCE1572_3477	hypothetical protein	-		0	
SCE1572_3478	hypothetical protein	bi	sce_2970	53.93	hypothetical protein
SCE1572_3479	hypothetical protein	-		0	
SCE1572_3480	FIG01086339: hypothetical protein	bi	sce_2972	66.14	FIG01086339: hypothetical protein
SCE1572_3481	hypothetical protein	bi	sce_2973	82.11	General stress protein
SCE1572_3482	hypothetical protein	uni	sce_3858	32.39	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_3483	FIG01088545: hypothetical protein	bi	sce_2974	86.8	FIG01088545: hypothetical protein
SCE1572_3484	ABC transporter, fused permease and ATPase domains	bi	sce_2975	90.85	ABC transporter, fused permease and ATPase domains
SCE1572_3485	PKD domain containing protein	-		0	
SCE1572_3486	D-AMINOPEPTIDASE (EC 3.4.11.19)	uni	sce_1000	44.52	D-alanine--D-alanine ligase (EC 6.3.2.4)
SCE1572_3487	Periplasmic aromatic aldehyde oxidoreductase, molybdenum binding subunit YagR	uni	sce_7082	36.52	Isoquinoline 1-oxidoreductase beta subunit (EC 1.3.99.16)
SCE1572_3488	Periplasmic aromatic aldehyde oxidoreductase, FAD binding subunit YagS	uni	sce_6597	23	Xanthine dehydrogenase, FAD binding subunit (EC 1.17.1.4)
SCE1572_3489	Periplasmic aromatic aldehyde oxidoreductase, iron-sulfur subunit YagT	uni	sce_3739	48.61	Isoquinoline 1-oxidoreductase alpha subunit (EC 1.3.99.16)
SCE1572_3490	COG0583: Transcriptional regulator	bi	sce_1329	66.89	Transcriptional regulator, LysR family
SCE1572_3491	putative cytochrome P450 hydroxylase	uni	sce_5180	39.24	putative cytochrome P450 hydroxylase
SCE1572_3492	hypothetical protein	-		0	
SCE1572_3493	FIG01088435: hypothetical protein	bi	sce_2976	81.14	FIG01088435: hypothetical protein
SCE1572_3494	Two component response regulator	bi	sce_2977	85.6	Two component response regulator
SCE1572_3495	FIG01085803: hypothetical protein	bi	sce_7153	46.67	Flagellar motor switch protein FliN
SCE1572_3496	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_2978	84.96	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_3497	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY	bi	sce_2980	91.34	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY
SCE1572_3498	Signal transduction histidine kinase CheA (EC 2.7.3.-)	bi	sce_2981	84.67	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_3499	Positive regulator of CheA protein activity (CheW)	bi	sce_2982	89.21	Positive regulator of CheA protein activity (CheW)
SCE1572_3500	Methyl accepting chemotaxis protein	bi	sce_2983	82.9	Methyl accepting chemotaxis protein
SCE1572_3501	FOG: HEAT repeat	bi	sce_2984	84.5	conserved hypothetical protein
SCE1572_3502	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_2985	84.93	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_3503	Chemotaxis response regulator protein-glutamate methylesterase CheB (EC 3.1.1.61)	bi	sce_2986	80.83	Chemotaxis response regulator protein-glutamate methylesterase CheB (EC 3.1.1.61)
SCE1572_3504	hypothetical protein	bi	sce_2987	76.77	hypothetical protein
SCE1572_3505	Ku domain protein	bi	sce_2988	82.19	Ku domain protein
SCE1572_3506	Nicotinamidase (EC 3.5.1.19)	bi	sce_2989	92.46	Nicotinamidase (EC 3.5.1.19)
SCE1572_3507	Succinyl-CoA ligase [ADP-forming] beta chain (EC 6.2.1.5)	bi	sce_2990	93.92	Succinyl-CoA ligase [ADP-forming] beta chain (EC 6.2.1.5)
SCE1572_3508	putative hyperosmotically inducible periplasmic protein	bi	sce_2991	86.49	putative hyperosmotically inducible periplasmic protein
SCE1572_3509	Adenosylhomocysteinase (EC 3.3.1.1)	bi	sce_2992	82.88	sigma-54 dependent DNA-binding response regulator
SCE1572_3510	FIG01084914: hypothetical protein	bi	sce_2993	65.43	FIG01084914: hypothetical protein
SCE1572_3511	Xanthine permease	bi	sce_2994	71.54	Xanthine permease
SCE1572_3512	Major facilitator superfamily (MFS_1) transporter	uni	sce_9993	45	Permeases of the major facilitator superfamily
SCE1572_3513	Dopamine beta-hydroxylase	bi	sce_7498	83.37	Dopamine beta-hydroxylase
SCE1572_3514	Transcriptional regulator, TetR family	bi	sce_7500	82.69	Transcriptional regulator, TetR family
SCE1572_3515	tetratricopeptide repeat domain protein	-		0	
SCE1572_3516	FIG01085542: hypothetical protein	bi	sce_7492	83.64	FIG01085542: hypothetical protein
SCE1572_3517	putative hydrolase	bi	sce_8421	37.09	FIG01085320: hypothetical protein
SCE1572_3518	hypothetical protein	bi	sce_5238	44.95	hypothetical protein
SCE1572_3519	FIG01086458: hypothetical protein	uni	sce_5638	36.24	FIG01086458: hypothetical protein
SCE1572_3520	hypothetical protein	-		0	
SCE1572_3521	PAS/PAC sensor hybrid histidine kinase	bi	sce_1043	47.77	Signal transduction histidine kinase
SCE1572_3522	hypothetical protein	-		0	
SCE1572_3523	FIG01088655: hypothetical protein	bi	sce_3138	83.58	FIG01088655: hypothetical protein
SCE1572_3524	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)	uni	sce_5554	42.86	PAS
SCE1572_3525	Bll1406 protein	bi	sce_7491	76.7	Bll1406 protein
SCE1572_3526	Transcriptional regulator, TetR family	uni	sce_7925	41.38	Transcriptional regulator, TetR family
SCE1572_3527	hypothetical protein	-		0	
SCE1572_3528	OmpA/MotB	bi	sce_2106	62.16	Extensin-like protein precursor
SCE1572_3529	Excinuclease ABC subunit A paralog of unknown function	uni	sce_7067	50.91	Excinuclease ABC subunit A paralog of unknown function
SCE1572_3530	hypothetical protein	-		0	
SCE1572_3531	Transcriptional regulator, TetR family	uni	sce_9220	34.64	Transcriptional regulator, TetR family
SCE1572_3532	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase (EC 2.1.1.14)	-		0	
SCE1572_3533	Pectin lyase like protein	bi	sce_7120	80.35	Pectin lyase like protein
SCE1572_3534	hypothetical protein	bi	sce_8653	93.48	hypothetical protein
SCE1572_3535	Oxidoreductase	uni	sce_10011	40.99	Oxidoreductase
SCE1572_3536	hypothetical protein	-		0	
SCE1572_3537	hypothetical protein	-		0	
SCE1572_3538	hypothetical protein	-		0	
SCE1572_3539	hypothetical protein	bi	sce_5183	30.82	Uncharacterized protein y4kT
SCE1572_3540	hypothetical protein	uni	sce_3728	30.47	putative lipoprotein
SCE1572_3541	hypothetical protein	-		0	
SCE1572_3542	hypothetical protein	-		0	
SCE1572_3543	hypothetical protein	-		0	
SCE1572_3544	Os01g0793100	-		0	
SCE1572_3545	hypothetical protein	-		0	
SCE1572_3546	hypothetical protein	-		0	
SCE1572_3547	hypothetical protein	uni	sce_2402	85	hypothetical protein
SCE1572_3548	PE-PGRS FAMILY PROTEIN	bi	sce_5572	60.4	Flagellar hook-length control protein FliK
SCE1572_3549	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_5143	76.25	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_3550	hypothetical protein	bi	sce_1370	87.18	hypothetical protein
SCE1572_3551	hypothetical protein	-		0	
SCE1572_3552	conserved hypothetical protein	bi	sce_6024	34.72	conserved hypothetical protein
SCE1572_3553	hypothetical protein	bi	sce_6183	68.53	similar to GRound-Like (grd related) family member (grl-25)
SCE1572_3554	hypothetical protein	bi	sce_10012	88.44	hypothetical protein
SCE1572_3555	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_5751	72.06	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_3556	hypothetical protein	-		0	
SCE1572_3557	Chitinase (EC 3.2.1.14)	uni	sce_1403	59.68	Cell division protein FtsZ (EC 3.4.24.-)
SCE1572_3558	hypothetical protein	-		0	
SCE1572_3559	PTS system, glucose-specific IIA component (EC 2.7.1.69) / Phosphocarrier protein of PTS system / Phosphoenolpyruvate-pro	uni	sce_2789	38.63	Phosphoenolpyruvate-dihydroxyacetone phosphotransferase (EC 2.7.1.121), subunit DhaM; DHA-specific IIA component / DHA-sp
SCE1572_3560	PTS system, N-acetylglucosamine-specific IIB component (EC 2.7.1.69) / PTS system, N-acetylglucosamine-specific IIC com	-		0	
SCE1572_3561	N-acetylglucosamine-6-phosphate deacetylase (EC 3.5.1.25)	uni	sce_6730	26.25	Xaa-Pro dipeptidase (EC 3.4.13.9)
SCE1572_3562	Glucosamine-6-phosphate deaminase [isomerizing], alternative (EC 3.5.99.6)	uni	sce_8287	34.18	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] (EC 2.6.1.16)
SCE1572_3563	Beta-hexosaminidase (EC 3.2.1.52)	-		0	
SCE1572_3564	Serine/threonine protein kinase	bi	sce_5229	48.13	Serine/threonine protein kinase
SCE1572_3565	Serine/threonine protein kinase	uni	sce_6712	55.65	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_3566	Acyl-CoA dehydrogenase, type 2-like	uni	sce_677	32.89	Acyl-CoA dehydrogenases
SCE1572_3567	hypothetical protein	uni	sce_8336	32.31	hypothetical protein
SCE1572_3568	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_6712	48.38	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_3569	hypothetical protein	-		0	
SCE1572_3570	hypothetical protein	-		0	
SCE1572_3571	Transcriptional regulator BkdR of isoleucine and valine catabolism operon	uni	sce_3816	62.23	Transcriptional regulator BkdR of isoleucine and valine catabolism operon
SCE1572_3572	hypothetical protein	-		0	
SCE1572_3573	Low-density lipoprotein receptor-related protein 1 precursor	uni	sce_149	29.07	hypothetical protein
SCE1572_3574	hypothetical protein	uni	sce_4089	28.96	Alpha/beta hydrolase fold (EC 3.8.1.5)
SCE1572_3575	hypothetical protein	-		0	
SCE1572_3576	FIG01085859: hypothetical protein	bi	sce_6709	50.21	FIG01085859: hypothetical protein
SCE1572_3577	beta-mannanase	bi	sce_170	87.84	beta-mannanase
SCE1572_3578	Methylated-DNA-(protein)-cysteine S-methyltransferase	-		0	
SCE1572_3579	Pantothenate:Na symporter (TC 2.A.21.1.1)	bi	sce_6216	69.67	Pantothenate:Na symporter (TC 2.A.21.1.1)
SCE1572_3580	hypothetical protein	uni	sce_2007	33.15	hypothetical protein
SCE1572_3581	von Willebrand factor C and EGF domains	bi	sce_4603	77	Kielin
SCE1572_3582	High-affnity carbon uptake protein Hat/HatR	-		0	
SCE1572_3583	hypothetical protein	uni	sce_2126	62.11	Conserved domain protein
SCE1572_3584	hypothetical protein	-		0	
SCE1572_3585	POSSIBLE TRANSMEMBRANE PROTEIN	bi	sce_9857	87.92	hypothetical protein
SCE1572_3586	hypothetical protein	uni	sce_7354	51.77	hypothetical protein
SCE1572_3587	hypothetical protein	-		0	
SCE1572_3588	hypothetical protein	-		0	
SCE1572_3589	hypothetical protein	bi	sce_10265	88.68	hypothetical protein
SCE1572_3590	hypothetical protein	-		0	
SCE1572_3591	hypothetical protein	-		0	
SCE1572_3592	hypothetical protein	bi	sce_7649	84	Alkylhydroperoxidase AhpD core domain
SCE1572_3593	Metallo-beta-lactamase superfamily protein	bi	sce_7648	87.18	Metallo-beta-lactamase superfamily protein
SCE1572_3594	putative RNA polymerase sigma factor	bi	sce_7651	87.8	putative RNA polymerase sigma factor
SCE1572_3595	hypothetical protein	-		0	
SCE1572_3596	hypothetical protein	-		0	
SCE1572_3597	hypothetical protein	-		0	
SCE1572_3598	Cell division transporter, ATP-binding protein FtsE (TC 3.A.5.1.1)	uni	sce_8566	30.49	Lipid A export ATP-binding/permease protein MsbA
SCE1572_3599	Transcriptional regulator, ArsR family	bi	sce_1701	85.19	transcriptional regulator (ArsR family)
SCE1572_3600	hypothetical protein	-		0	
SCE1572_3601	hypothetical protein	uni	sce_4539	42	FIG01086337: hypothetical protein
SCE1572_3602	serine/Threonine protein kinase	uni	sce_3801	47.48	protein kinase
SCE1572_3603	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	uni	sce_1598	69.54	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases
SCE1572_3604	Germacradienol/germacrene D synthase (EC 4.2.3.22)	bi	sce_1597	62.71	FIG01120759: hypothetical protein
SCE1572_3605	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	bi	sce_1598	71.34	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases

SCE1572_3606	hypothetical protein	-		0	
SCE1572_3607	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_4487	84.12	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_3608	FIG01085495: hypothetical protein	bi	sce_3024	73.66	FIG01085495: hypothetical protein
SCE1572_3609	Two-component sensor CbrB: intrcellular carbon:nitrogen balance	bi	sce_3025	81.58	Two-component sensor CbrB: intrcellular carbon:nitrogen balance
SCE1572_3610	hypothetical protein	-		0	
SCE1572_3611	protein kinase domain	uni	sce_7729	39.86	eukaryotic-type protein kinase
SCE1572_3612	hypothetical protein	uni	sce_3894	29.79	Gll0642 protein
SCE1572_3613	hypothetical protein	-		0	
SCE1572_3614	hypothetical protein	bi	sce_6533	33.43	FIG01086595: hypothetical protein
SCE1572_3615	FAD linked oxidase, C-terminal:FAD linked oxidase, N-terminal	uni	sce_10079	30.81	Alkyldihydroxyacetonephosphate synthase
SCE1572_3616	Putative cytoplasmic protein	-		0	
SCE1572_3617	UPF0182 protein AF1421	-		0	
SCE1572_3618	hypothetical protein	-		0	
SCE1572_3619	Na() H() antiporter subunit A	bi	sce_2155	91.78	Na() H() antiporter subunit A
SCE1572_3620	Na() H() antiporter subunit B	bi	sce_2154	92.09	Na() H() antiporter subunit B
SCE1572_3621	Na() H() antiporter subunit C	bi	sce_2153	93.04	Na() H() antiporter subunit C
SCE1572_3622	Na() H() antiporter subunit D	bi	sce_2152	91.12	Na() H() antiporter subunit D
SCE1572_3623	Na() H() antiporter subunit E	bi	sce_2151	91.08	Na() H() antiporter subunit E
SCE1572_3624	Na() H() antiporter subunit F	bi	sce_2150	94.19	Na() H() antiporter subunit F
SCE1572_3625	Na() H() antiporter subunit G	bi	sce_2149	91.62	Na() H() antiporter subunit G
SCE1572_3626	FIG01086300: hypothetical protein	bi	sce_6850	81.02	FIG01086300: hypothetical protein
SCE1572_3627	FIG01085217: hypothetical protein	bi	sce_6851	81.11	FIG01085217: hypothetical protein
SCE1572_3628	hypothetical protein	bi	sce_1042	71.88	hypothetical protein
SCE1572_3629	hypothetical protein	bi	sce_7856	81.4	hypothetical protein
SCE1572_3630	Selenoprotein O and cysteine-containing homologs	bi	sce_6065	88.64	Selenoprotein O and cysteine-containing homologs
SCE1572_3631	oxidoreductase, FAD/FMN-binding	bi	sce_6047	91.99	oxidoreductase
SCE1572_3632	Polyvinylalcohol dehydrogenase	bi	sce_6048	86.63	Polyvinylalcohol dehydrogenase
SCE1572_3633	FIG01087588: hypothetical protein	bi	sce_6046	83.61	FIG01087588: hypothetical protein
SCE1572_3634	hypothetical protein	bi	sce_2425	83.75	hypothetical protein
SCE1572_3635	Histone acetyltransferase HPA2 and related acetyltransferases	uni	sce_2495	37.5	Histone acetyltransferase HPA2/related acetyltransferase
SCE1572_3636	hypothetical protein	-		0	
SCE1572_3637	hypothetical protein	-		0	
SCE1572_3638	hypothetical protein	-		0	
SCE1572_3639	hypothetical protein	bi	sce_6070	77.78	hypothetical protein
SCE1572_3640	hypothetical protein	-		0	
SCE1572_3641	Alcohol dehydrogenase, zinc-binding domain protein	bi	sce_6018	85.76	Alcohol dehydrogenase (EC 1.1.1.1)
SCE1572_3642	putative oxidoreductase	uni	sce_5691	34.21	Cellulase(EC:3.2.1.4)
SCE1572_3643	hypothetical protein	-		0	
SCE1572_3644	RsbR, positive regulator of sigma-B	uni	sce_5334	51.88	RsbR, positive regulator of sigma-B
SCE1572_3645	hypothetical protein	-		0	
SCE1572_3646	hypothetical protein	bi	sce_4691	83.27	hypothetical protein
SCE1572_3647	FIG01086973: hypothetical protein	bi	sce_4692	82.83	FIG01086973: hypothetical protein
SCE1572_3648	FIG01089683: hypothetical protein	bi	sce_4693	70.68	FIG01089683: hypothetical protein
SCE1572_3649	hypothetical protein	-		0	
SCE1572_3650	Bll0118 protein	bi	sce_2436	73.64	Bll0118 protein
SCE1572_3651	hypothetical protein	uni	sce_8637	42.75	FIG01087436: hypothetical protein
SCE1572_3652	hypothetical protein	uni	sce_6039	31.01	hypothetical protein
SCE1572_3653	hypothetical protein	-		0	
SCE1572_3654	hypothetical protein	bi	sce_3043	86.03	hypothetical protein
SCE1572_3655	hypothetical protein	-		0	
SCE1572_3656	hypothetical protein	bi	sce_5240	37	hypothetical protein
SCE1572_3657	hypothetical protein	bi	sce_5239	34.07	FIG01086776: hypothetical protein
SCE1572_3658	COG0457: FOG: TPR repeat	bi	sce_5235	48.7	hypothetical protein
SCE1572_3659	hypothetical protein	-		0	
SCE1572_3660	hypothetical protein	-		0	
SCE1572_3661	Flagellar regulatory protein FleQ	uni	sce_773	49.71	Flagellar regulatory protein FleQ
SCE1572_3662	HlyD family secretion protein	uni	sce_8030	43.19	HlyD family secretion protein
SCE1572_3663	ABC transporter, ATP-binding protein	uni	sce_8029	47.72	ABC transporter, ATP-binding protein
SCE1572_3664	ABC transporter, ATP-binding protein	uni	sce_8028	46.04	transport ATP-binding protein MsbA
SCE1572_3665	hypothetical protein	-		0	
SCE1572_3666	hypothetical protein	-		0	
SCE1572_3667	hypothetical protein	uni	sce_3858	34.76	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_3668	hypothetical protein	-		0	
SCE1572_3669	hypothetical protein	-		0	
SCE1572_3670	FIG01087249: hypothetical protein	uni	sce_2337	92.74	FIG01087249: hypothetical protein
SCE1572_3671	hypothetical protein	-		0	
SCE1572_3672	hypothetical protein	uni	sce_6700	65.31	hypothetical protein
SCE1572_3673	alpha/beta hydrolase fold	-		0	
SCE1572_3674	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	uni	sce_4326	39.71	Beta-lactamase class C and other penicillin binding proteins
SCE1572_3675	hypothetical protein	-		0	
SCE1572_3676	Xylose ABC transporter, substrate-binding component	uni	sce_7038	58.06	hypothetical protein
SCE1572_3677	hypothetical protein	bi	sce_7357	88.16	hypothetical protein
SCE1572_3678	hypothetical protein	bi	sce_7356	92.36	hypothetical protein
SCE1572_3679	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8) (Xylanase A) (1,4-beta-D-xylan xylanohydrolase A) (XYLA)	uni	sce_5891	40.45	unknown
SCE1572_3680	hypothetical protein	bi	sce_6700	71.72	hypothetical protein
SCE1572_3681	FIG01085648: hypothetical protein	uni	sce_10332	56.29	FIG01087210: hypothetical protein
SCE1572_3682	Extensin-like protein	uni	sce_10332	50	FIG01087210: hypothetical protein
SCE1572_3683	FIG01086383: hypothetical protein	uni	sce_10333	62.18	hypothetical protein
SCE1572_3684	hypothetical protein	-		0	
SCE1572_3685	RNA polymerase sigma factor RpoE	uni	sce_10335	50.32	RNA polymerase sigma factor RpoE
SCE1572_3686	hypothetical protein	uni	sce_10334	52.17	FIG01087636: hypothetical protein
SCE1572_3687	cytochrome P450	uni	sce_7190	42.56	Cytochrome P450
SCE1572_3688	FIG01088284: hypothetical protein	bi	sce_1325	84.78	FIG01088284: hypothetical protein
SCE1572_3689	Metalloid methyltransferase	bi	sce_3046	83.64	Metalloid methyltransferase
SCE1572_3690	hypothetical protein	uni	sce_2128	44.12	hypothetical protein
SCE1572_3691	putative lipoprotein	bi	sce_3794	56.39	Type IV fimbrial biogenesis protein PilY1
SCE1572_3692	hypothetical protein	uni	sce_3796	56.69	hypothetical protein
SCE1572_3693	TolA protein, putative	uni	sce_3793	28.86	WD-40 repeat protein
SCE1572_3694	Conserved domain protein	uni	sce_2126	54.76	Conserved domain protein
SCE1572_3695	hypothetical protein	-		0	
SCE1572_3696	hypothetical protein	bi	sce_3047	75.96	hypothetical protein
SCE1572_3697	Hypothetical protein VC0266 (sugar utilization related?)	uni	sce_1931	33.09	Uracil-DNA glycosylase, putative family 6
SCE1572_3698	Rhomboid family protein	-		0	
SCE1572_3699	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	-		0	
SCE1572_3700	hypothetical protein	bi	sce_3049	90.81	peptidase M14, carboxypeptidase A
SCE1572_3701	Methylmalonyl-CoA epimerase (EC 5.1.99.1)	bi	sce_3051	90.67	Methylmalonyl-CoA epimerase (EC 5.1.99.1)
SCE1572_3702	Methylmalonyl-CoA mutase (EC 5.4.99.2)	bi	sce_3052	90.48	Methylmalonyl-CoA mutase (EC 5.4.99.2)
SCE1572_3703	putative periplasmic protein kinase ArgK and related GTPases of G3E family	bi	sce_3053	86.9	putative periplasmic protein kinase ArgK and related GTPases of G3E family
SCE1572_3704	FIG01089097: hypothetical protein	bi	sce_2116	88.89	FIG01089097: hypothetical protein
SCE1572_3705	Endo-1,4-beta-xylanase 2 precursor (EC 3.2.1.8) (Xylanase 2) (1,4-beta-D-xylan xylanohydrolase 2)	bi	sce_10408	89.19	hypothetical protein(EC:3.2.1.8)
SCE1572_3706	hypothetical protein	-		0	
SCE1572_3707	FIG01087489: hypothetical protein	bi	sce_7655	78.78	hypothetical protein
SCE1572_3708	hypothetical protein	-		0	
SCE1572_3709	hypothetical protein	-		0	
SCE1572_3710	RNA-binding protein	uni	sce_6697	86.14	RNA-binding protein
SCE1572_3711	hypothetical protein	bi	sce_8388	86.67	hypothetical protein
SCE1572_3712	DTW domain protein	bi	sce_3061	83.61	DTW domain protein
SCE1572_3713	hypothetical protein	uni	sce_6519	44.52	FIG01085716: hypothetical protein
SCE1572_3714	Parallel beta-helix repeat	-		0	
SCE1572_3715	Cytochrome c551 peroxidase (EC 1.11.1.5)	uni	sce_6518	53.91	Methylamine utilization protein mauG
SCE1572_3716	FIG01088601: hypothetical protein	uni	sce_3879	30.84	FIG01085391: hypothetical protein
SCE1572_3717	group II decarboxylase family protein	uni	sce_2563	31.84	Aromatic-L-amino-acid decarboxylase (EC 4.1.1.28)
SCE1572_3718	hypothetical protein	-		0	
SCE1572_3719	FIG01088133: hypothetical protein	bi	sce_3062	80.8	FIG01088133: hypothetical protein
SCE1572_3720	Two-component sensor CbrA: intrcellular carbon:nitrogen balance	bi	sce_3065	88.57	histidine kinase
SCE1572_3721	hypothetical protein	-		0	
SCE1572_3722	putative sugar transport protein	bi	sce_3066	92.14	putative sugar transport protein
SCE1572_3723	membrane protein, putative	-		0	
SCE1572_3724	hypothetical protein	-		0	
SCE1572_3725	PE-PGRS FAMILY PROTEIN	bi	sce_7838	64.23	hypothetical protein
SCE1572_3726	hypothetical protein	-		0	
SCE1572_3727	LamG domain protein jellyroll fold domain protein	uni	sce_5962	32.69	Similarity
SCE1572_3728	hypothetical protein	-		0	
SCE1572_3729	hypothetical protein	-		0	
SCE1572_3730	hypothetical protein	-		0	
SCE1572_3731	Protein serine-threonine phosphatase	bi	sce_3071	93.92	Protein serine-threonine phosphatase
SCE1572_3732	HEN1 C-terminal domain; double-stranded RNA 3'-methylase	bi	sce_3072	89.44	HEN1 C-terminal domain; double-stranded RNA 3'-methylase
SCE1572_3733	hypothetical protein	-		0	
SCE1572_3734	PE-PGRS family protein	uni	sce_5891	64.33	unknown
SCE1572_3735	RsbR, positive regulator of sigma-B	uni	sce_5334	56.46	RsbR, positive regulator of sigma-B
SCE1572_3736	PE-PGRS FAMILY PROTEIN	uni	sce_1495	75	Collagen triple helix repeat
SCE1572_3737	hypothetical protein	uni	sce_8542	46.38	hypothetical protein
SCE1572_3738	Flagellar hook-length control protein FliK	bi	sce_3078	79.68	Flagellar hook-length control protein FliK
SCE1572_3739	hypothetical protein	-		0	
SCE1572_3740	NtrC	uni	sce_2052	53.98	NtrC
SCE1572_3741	Gll2764 protein	uni	sce_7864	31.76	1,4-beta-cellobiosidase
SCE1572_3742	serine/threonine protein kinase	uni	sce_7475	38.39	serine/threonine protein kinase
SCE1572_3743	hypothetical protein	-		0	
SCE1572_3744	hypothetical protein	uni	sce_7392	29.89	FIG01089338: hypothetical protein
SCE1572_3745	FIG01088605: hypothetical protein	bi	sce_3083	83.2	FIG01088605: hypothetical protein
SCE1572_3746	RNA polymerase sigma factor RpoE	bi	sce_3084	91.08	RNA polymerase sigma factor RpoE
SCE1572_3747	hypothetical protein	-		0	
SCE1572_3748	RsbR, positive regulator of sigma-B	bi	sce_3085	91.88	putative PAS/PAC sensor protein
SCE1572_3749	hypothetical protein	bi	sce_3086	87.5	hypothetical protein
SCE1572_3750	hypothetical protein	uni	sce_3087	77.5	hypothetical protein
SCE1572_3751	Proteophosphoglycan 5	bi	sce_3087	81.15	hypothetical protein
SCE1572_3752	putative cytochrome P450 hydroxylase	uni	sce_8803	35.05	putative cytochrome P450 hydroxylase
SCE1572_3753	Putative SAM-dependent methyltransferases	-		0	
SCE1572_3754	hypothetical protein	-		0	
SCE1572_3755	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_4641	45.82	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_3756	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	bi	sce_3575	46.38	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_3757	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_4641	44.54	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_3758	FIG01085109: hypothetical protein	uni	sce_3939	75.29	FIG01085109: hypothetical protein
SCE1572_3759	FIG01085109: hypothetical protein	uni	sce_8592	67.9	FIG01085109: hypothetical protein
SCE1572_3760	Adenosylhomocysteinase (EC 3.3.1.1)	-		0	
SCE1572_3761	Patatin	bi	sce_3092	96.5	hypothetical protein
SCE1572_3762	serine/threonine-protein kinase Pkn6(EC:2.7.11.1)	bi	sce_3093	93.31	serine/threonine protein kinase
SCE1572_3763	Membrane protein, distant similarity to thiosulphate:quinone oxidoreductase DoxD	bi	sce_3100	80.85	Membrane protein, distant similarity to thiosulphate:quinone oxidoreductase DoxD
SCE1572_3764	PAS/PAC sensor signal transduction histidine kinase(EC:2.7.13.3)	bi	sce_3101	77.67	PAS/PAC sensor signal transduction histidine kinase
SCE1572_3765	Cell division protein FtsH (EC 3.4.24.-)	bi	sce_3102	94.27	Cell division protein FtsH (EC 3.4.24.-)
SCE1572_3766	D-alanine--D-alanine ligase (EC 6.3.2.4)	bi	sce_3103	92.59	D-alanine--D-alanine ligase (EC 6.3.2.4)
SCE1572_3767	putative acetyltransferase	bi	sce_3104	86.67	putative acetyltransferase
SCE1572_3768	YihE protein, a ser/thr kinase implicated in LPS synthesis and Cpx signalling	bi	sce_3105	91.35	YihE protein, a ser/thr kinase implicated in LPS synthesis and Cpx signalling
SCE1572_3769	hypothetical protein	bi	sce_3106	89.29	hypothetical protein

SCE1572_3770	hypothetical protein	-		0	
SCE1572_3771	Serine/threonine protein kinase PknB (EC 2.7.11.1)	bi	sce_3107	84.41	Serine/threonine protein kinase PknB (EC 2.7.11.1)
SCE1572_3772	hypothetical protein	bi	sce_3108	74.45	hypothetical protein
SCE1572_3773	S-(hydroxymethyl)glutathione dehydrogenase (EC 1.1.1.284)	bi	sce_3109	97.3	S-(hydroxymethyl)glutathione dehydrogenase (EC 1.1.1.284)
SCE1572_3774	Cytosol aminopeptidase PepA (EC 3.4.11.1)	bi	sce_3110	94.05	Cytosol aminopeptidase PepA (EC 3.4.11.1)
SCE1572_3775	FIG01087857: hypothetical protein	bi	sce_3111	79.68	FIG01087857: hypothetical protein
SCE1572_3776	hypothetical protein	bi	sce_3112	85.79	hypothetical protein
SCE1572_3777	Glycine cleavage system transcriptional activator	bi	sce_3113	92.59	Glycine cleavage system transcriptional activator
SCE1572_3778	FIG01086569: hypothetical protein	bi	sce_3114	79.14	FIG01086569: hypothetical protein
SCE1572_3779	putative Fe-S oxidoreductase	bi	sce_3115	76.55	Predicted membrane protein
SCE1572_3780	FIG01087567: hypothetical protein	bi	sce_3116	88.64	FIG01087567: hypothetical protein
SCE1572_3781	DNA adenine methylase(EC:2.1.1.72)	bi	sce_3117	91.86	DNA adenine methylase(EC:2.1.1.72)
SCE1572_3782	hypothetical protein	bi	sce_3118	87.93	FIG01085157: hypothetical protein
SCE1572_3783	hypothetical protein	-		0	
SCE1572_3784	Putative Nudix hydrolase YfcD (EC 3.6.-.-)	bi	sce_3119	77.97	Putative Nudix hydrolase YfcD (EC 3.6.-.-)
SCE1572_3785	Heat shock protein 60 family co-chaperone GroES	bi	sce_3120	98.98	Heat shock protein 60 family co-chaperone GroES
SCE1572_3786	Heat shock protein 60 family chaperone GroEL	bi	sce_3121	95.73	Heat shock protein 60 family chaperone GroEL
SCE1572_3787	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	bi	sce_3122	87.16	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases
SCE1572_3788	putative cAMP phosphodiesterases class-II	bi	sce_3123	94.9	putative cAMP phosphodiesterases class-II
SCE1572_3789	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_3124	99.24	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_3790	hypothetical protein	bi	sce_3126	91.94	hypothetical protein
SCE1572_3791	Spermidine synthase (EC 2.5.1.16)	bi	sce_3127	94.82	Spermidine synthase (EC 2.5.1.16)
SCE1572_3792	hypothetical protein	bi	sce_3128	84.31	hypothetical protein
SCE1572_3793	hypothetical protein-transmembrane prediction	bi	sce_3129	91.84	hypothetical protein-transmembrane prediction
SCE1572_3794	hypothetical protein	bi	sce_3130	91.18	FIG01085339: hypothetical protein
SCE1572_3795	hypothetical protein	bi	sce_3131	88.14	hypothetical protein
SCE1572_3796	FIG01086618: hypothetical protein	bi	sce_3132	81.87	FIG01086618: hypothetical protein
SCE1572_3797	Sensor protein of zinc sigma-54-dependent two-component system	bi	sce_3133	88.44	Sensor protein of zinc sigma-54-dependent two-component system
SCE1572_3798	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_3134	95.91	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_3799	UDP-glucose dehydrogenase (EC 1.1.1.22)	bi	sce_3135	97	UDP-glucose dehydrogenase (EC 1.1.1.22)
SCE1572_3800	hypothetical protein	-		0	
SCE1572_3801	hypothetical protein	bi	sce_5620	36.62	Predicted ATPase
SCE1572_3802	hypothetical protein	uni	sce_5400	50	hypothetical protein
SCE1572_3803	hypothetical protein	bi	sce_3137	77.67	hypothetical protein
SCE1572_3804	hypothetical protein	uni	sce_3968	30.1	Putative Ferrodoxin
SCE1572_3805	hypothetical protein	bi	sce_3139	92.43	hypothetical protein
SCE1572_3806	hypothetical protein	-		0	
SCE1572_3807	Metalloprotease MEP2	uni	sce_5178	48.23	Metalloprotease MEP2
SCE1572_3808	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	bi	sce_3140	85.68	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_3809	hypothetical protein	bi	sce_3141	81.6	hypothetical protein
SCE1572_3810	hypothetical protein	-		0	
SCE1572_3811	transcriptional regulator, AraC family	uni	sce_3459	43.21	transcriptional regulator, AraC family protein
SCE1572_3812	Histone acetyltransferase HPA2 and related acetyltransferases	-		0	
SCE1572_3813	hypothetical protein	-		0	
SCE1572_3814	Major facilitator family transporter	uni	sce_1384	27.92	D-galactonate transporter
SCE1572_3815	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_2107	62.05	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_3816	hypothetical protein	-		0	
SCE1572_3817	hypothetical protein	bi	sce_4644	73.46	hypothetical protein
SCE1572_3818	Probable ATP-dependent DNA helicase	bi	sce_3145	88.19	Probable ATP-dependent DNA helicase
SCE1572_3819	PE-PGRS family protein	uni	sce_1146	37.08	Gll0645 protein
SCE1572_3820	Efflux transporter, RND family, MFP subunit, AcrA/E family	bi	sce_3147	84.5	Efflux transporter, RND family, MFP subunit, AcrA/E family
SCE1572_3821	RND multidrug efflux transporter; Acriflavin resistance protein	bi	sce_3148	90.2	RND multidrug efflux transporter; Acriflavin resistance protein
SCE1572_3822	COG2363	bi	sce_3149	81.54	COG2363
SCE1572_3823	FIG01087789: hypothetical protein	bi	sce_3151	85.31	FIG01087789: hypothetical protein
SCE1572_3824	Translation elongation factor P Lys34:lysine transferase	bi	sce_3152	92.23	Translation elongation factor P Lys34:lysine transferase
SCE1572_3825	hypothetical protein	-		0	
SCE1572_3826	FIG01088368: hypothetical protein	bi	sce_3153	75.23	FIG01088368: hypothetical protein
SCE1572_3827	PE_PGRS family protein	bi	sce_3154	76.81	Arylsulfatase (EC 3.1.6.1)
SCE1572_3828	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase (EC 2.7.8.5)	bi	sce_3155	96.77	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase (EC 2.7.8.5)
SCE1572_3829	Very large tegument protein	bi	sce_3156	85.49	Very large tegument protein
SCE1572_3830	Phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase (EC 5.3.1.16)	bi	sce_3157	95.85	Phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase (EC 5.3.1.16)
SCE1572_3831	FIG01084962: hypothetical protein	bi	sce_3158	81.52	FIG01084962: hypothetical protein
SCE1572_3832	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)	bi	sce_3159	83.94	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)
SCE1572_3833	LOC432261 protein	bi	sce_3161	79.14	LOC432261 protein
SCE1572_3834	hypothetical protein	-		0	
SCE1572_3835	histidine kinase	uni	sce_7642	55.25	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_3836	hypothetical protein	-		0	
SCE1572_3837	RsbR, positive regulator of sigma-B	uni	sce_7990	39.15	RsbR, positive regulator of sigma-B
SCE1572_3838	hypothetical protein	-		0	
SCE1572_3839	NAD-dependent protein deacetylase, SIR2 family	bi	sce_3162	92.83	putative Sir2-like transcriptional silencer protein
SCE1572_3840	Xanthosine/inosine triphosphate pyrophosphatase	bi	sce_3163	85	Xanthosine/inosine triphosphate pyrophosphatase
SCE1572_3841	Oxidoreductase	bi	sce_3164	90.14	Oxidoreductase
SCE1572_3842	2-hydroxy-3-keto-5-methylthiopentenyl-1-phosphate phosphatase related protein	bi	sce_3165	79.04	2-hydroxy-3-keto-5-methylthiopentenyl-1-phosphate phosphatase related protein
SCE1572_3843	hypothetical protein	-		0	
SCE1572_3844	Penicillin amidase(EC:3.5.1.11)	uni	sce_9234	29.93	Penicillin acylase II (EC 3.5.1.11)
SCE1572_3845	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	uni	sce_2269	37.55	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_3846	hypothetical protein	bi	sce_2595	29.96	Hydrolase (HAD superfamily)
SCE1572_3847	probable conserved lipoprotein lppf	-		0	
SCE1572_3848	probable general stress protein 26	bi	sce_3166	89.24	General stress protein
SCE1572_3849	Serine/threonine kinase with two-component sensor domain	bi	sce_3167	75.08	protein kinase
SCE1572_3850	Imidazole glycerol phosphate synthase amidotransferase subunit (EC 2.4.2.-)	bi	sce_3168	88	Imidazole glycerol phosphate synthase amidotransferase subunit (EC 2.4.2.-)
SCE1572_3851	Imidazoleglycerol-phosphate dehydratase (EC 4.2.1.19)	bi	sce_3169	96.92	Imidazoleglycerol-phosphate dehydratase (EC 4.2.1.19)
SCE1572_3852	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_3170	82.38	serine/threonine kinase Pkn10(EC:2.7.1.-)
SCE1572_3853	Mucin 2 precursor	uni	sce_3170	50.45	serine/threonine kinase Pkn10(EC:2.7.1.-)
SCE1572_3854	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_3171	76.96	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_3855	Low-density lipoprotein receptor-related protein 1 precursor	bi	sce_3172	62.01	Low-density lipoprotein receptor-related protein 1 precursor
SCE1572_3856	Thrombospondin-2 precursor (Corticotropin-induced secreted protein) (CISP)	bi	sce_3180	65.37	FIG01089285: hypothetical protein
SCE1572_3857	Outer membrane protein A-like protein	bi	sce_3181	84.5	Outer membrane protein A-like protein
SCE1572_3858	S-layer protein	bi	sce_3182	84.82	S-layer protein
SCE1572_3859	Low-density lipoprotein receptor-related protein 1 precursor	bi	sce_3183	78.4	Low-density lipoprotein receptor-related protein 1 precursor
SCE1572_3860	FIG01084940: hypothetical protein	bi	sce_3184	90.11	FIG01084940: hypothetical protein
SCE1572_3861	ATP-dependent protease La (EC 3.4.21.53) Type I	bi	sce_3185	98.38	ATP-dependent protease La (EC 3.4.21.53) Type I
SCE1572_3862	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_6012	34.38	Retinol dehydrogenase 13 (EC 1.1.1.-)
SCE1572_3863	UvrD/REP helicase	bi	sce_3186	85.14	ATP-dependent nuclease, subunit A, putative
SCE1572_3864	ATP-dependent nuclease subunit B-like	bi	sce_3187	86.62	Chromosome partition protein smc
SCE1572_3865	hypothetical protein	-		0	
SCE1572_3866	FIG01087857: hypothetical protein	bi	sce_3188	78.4	FIG01087857: hypothetical protein
SCE1572_3867	protein of unknown function DUF583	bi	sce_3189	86.67	protein of unknown function DUF583
SCE1572_3868	large tegument protein	bi	sce_3190	73.4	large tegument protein
SCE1572_3869	protein of unknown function DUF99	bi	sce_3191	87.96	protein of unknown function DUF99
SCE1572_3870	FIG01088554: hypothetical protein	bi	sce_3192	77.09	FIG01088554: hypothetical protein
SCE1572_3871	Heme A synthase, cytochrome oxidase biogenesis protein Cox15-CtaA	bi	sce_3194	89.72	Heme A synthase, cytochrome oxidase biogenesis protein Cox15-CtaA
SCE1572_3872	GGDEF/response regulator receiver domain protein	bi	sce_3195	89.51	GGDEF/response regulator receiver domain protein
SCE1572_3873	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_3196	82.42	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_3874	outer membrane efflux protein, putative	bi	sce_3197	91.79	outer membrane efflux protein, putative
SCE1572_3875	Cytochrome c-type biogenesis protein CcmC, putative heme lyase for CcmE	bi	sce_3198	90.4	Cytochrome c-type biogenesis protein CcmC, putative heme lyase for CcmE
SCE1572_3876	FIG01087957: hypothetical protein	bi	sce_3199	89.13	FIG01087957: hypothetical protein
SCE1572_3877	hypothetical protein	bi	sce_3200	95.74	hypothetical protein
SCE1572_3878	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	bi	sce_3201	96.04	Butyryl-CoA dehydrogenase (EC 1.3.99.2)
SCE1572_3879	hypothetical protein	bi	sce_3202	92.83	hypothetical protein
SCE1572_3880	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_3204	95.29	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_3881	pseudouridine synthase	bi	sce_3205	93.72	pseudouridine synthase
SCE1572_3882	Muconate cycloisomerase (EC 5.5.1.1)	bi	sce_3206	92.33	Muconate cycloisomerase (EC 5.5.1.1)
SCE1572_3883	thioredoxin family protein	bi	sce_3207	82.38	thioredoxin family protein
SCE1572_3884	(3R)-hydroxymyristoyl-[acyl carrier protein] dehydratase (EC 4.2.1.-)	bi	sce_3208	94.84	(3R)-hydroxymyristoyl-[acyl carrier protein] dehydratase (EC 4.2.1.-)
SCE1572_3885	Outer membrane protein H precursor	bi	sce_3209	93.23	Outer membrane protein H precursor
SCE1572_3886	FIG01088229: hypothetical protein	bi	sce_3210	79.73	FIG01088229: hypothetical protein
SCE1572_3887	Glutamate N-acetyltransferase (EC 2.3.1.35) / N-acetylglutamate synthase (EC 2.3.1.1)	bi	sce_3211	92.84	Glutamate N-acetyltransferase (EC 2.3.1.35) / N-acetylglutamate synthase (EC 2.3.1.1)
SCE1572_3888	hypothetical protein	bi	sce_3212	81.23	hypothetical protein
SCE1572_3889	FIG01086572: hypothetical protein	bi	sce_3213	83.22	FIG01086572: hypothetical protein
SCE1572_3890	Mlr2351 protein	bi	sce_3215	73.63	hypothetical protein
SCE1572_3891	Serine/threonine protein kinase (EC 2.7.11.1)	bi	sce_3216	92.23	Serine/threonine protein kinase (EC 2.7.11.1)
SCE1572_3892	Fumarylacetoacetate hydrolase family protein	bi	sce_3221	90.33	Fumarylacetoacetate hydrolase family protein
SCE1572_3893	Methyltransferase type 12	bi	sce_3222	95.79	Methyltransferase type 12
SCE1572_3894	FIG00597249: hypothetical protein	bi	sce_3223	94.14	FIG00597249: hypothetical protein
SCE1572_3895	Haloacid dehalogenase-like hydrolase	bi	sce_3224	85.49	Haloacid dehalogenase-like hydrolase
SCE1572_3896	Similarity	bi	sce_3225	77.36	Similarity
SCE1572_3897	phosphatidylinositol transfer protein	bi	sce_3226	87.75	Retinal degeneration B protein
SCE1572_3898	hypothetical protein	bi	sce_3227	86.18	hypothetical protein
SCE1572_3899	Serine protease inhibitor (serpin family)	bi	sce_3228	80.13	proteinase inhibitor I4, serpin
SCE1572_3900	FIG01085013: hypothetical protein	bi	sce_3229	72.91	FIG01085013: hypothetical protein
SCE1572_3901	hypothetical protein	bi	sce_3230	85.96	hypothetical protein
SCE1572_3902	Glutathione S-transferase family protein Sll1545	uni	sce_5703	33.21	hypothetical protein
SCE1572_3903	8-amino-7-oxononanoate synthase (EC 2.3.1.47)	bi	sce_3232	92.61	8-amino-7-oxononanoate synthase (EC 2.3.1.47)
SCE1572_3904	hypothetical protein	-		0	
SCE1572_3905	Type IV fimbriae expression regulatory protein PilR	bi	sce_3234	98.01	Type IV fimbriae expression regulatory protein PilR
SCE1572_3906	Predicted ATPase related to phosphate starvation-inducible protein PhoH	bi	sce_3235	97.72	Predicted ATPase related to phosphate starvation-inducible protein PhoH
SCE1572_3907	FIG01088085: hypothetical protein	bi	sce_3236	92.31	FIG01088085: hypothetical protein
SCE1572_3908	hypothetical protein	bi	sce_3238	90	hypothetical protein
SCE1572_3909	ATP-dependent DNA helicase RecQ	bi	sce_3239	88.67	ATP-dependent DNA helicase RecQ
SCE1572_3910	conserved unknownl protein	bi	sce_3240	93.39	Oxidoreductase (EC 1.1.1.-)
SCE1572_3911	hypothetical protein	bi	sce_3241	89.53	hypothetical protein
SCE1572_3912	FxsA protein	bi	sce_3242	83.5	FxsA protein
SCE1572_3913	L-beta-lysine 5,6-aminomutase alpha subunit (EC 5.4.3.3)	bi	sce_3243	95.47	L-beta-lysine 5,6-aminomutase alpha subunit (EC 5.4.3.3)
SCE1572_3914	L-beta-lysine 5,6-aminomutase beta subunit (EC 5.4.3.3)	bi	sce_3245	95.88	L-beta-lysine 5,6-aminomutase beta subunit (EC 5.4.3.3)
SCE1572_3915	heat shock protein DnaJ-like protein	bi	sce_3246	84.5	hypothetical protein
SCE1572_3916	Oxidoreductase, short chain dehydrogenase/reductase family	bi	sce_3247	95.73	Oxidoreductase, short chain dehydrogenase/reductase family
SCE1572_3917	Splicing factor, proline- and glutamine-rich (Polypyrimidine tract-binding protein-associated-splicing factor) (PTB-associated-	bi	sce_3249	91.42	Splicing factor, proline- and glutamine-rich (Polypyrimidine tract-binding protein-associated-splicing factor) (PTB-associated-splicir
SCE1572_3918	conserved hypothetical protein	bi	sce_3250	97.45	hypothetical protein
SCE1572_3919	hypothetical protein	bi	sce_3251	87.23	putative minor tail protein
SCE1572_3920	conserved hypothetical protein	bi	sce_3252	86.53	conserved hypothetical protein
SCE1572_3921	Heme O synthase, protoheme IX farnesyltransferase (EC 2.5.1.-) COX10-CtaB	bi	sce_3254	85.03	Heme O synthase, protoheme IX farnesyltransferase (EC 2.5.1.-) COX10-CtaB
SCE1572_3922	Cytochrome oxidase biogenesis protein Sco1/SenC/PrrC, putative copper metallochaperone	bi	sce_3255	76.67	Cytochrome oxidase biogenesis protein Sco1/SenC/PrrC, putative copper metallochaperone
SCE1572_3923	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_3256	87.02	sigma-54 dependent DNA-binding response regulator
SCE1572_3924	Putative membrane protein	bi	sce_3257	74.27	conserved hypothetical protein
SCE1572_3925	FHA domain/GGDEF domain protein	bi	sce_3258	94.3	FHA domain/GGDEF domain protein
SCE1572_3926	hypothetical protein	bi	sce_3259	72.18	hypothetical protein
SCE1572_3927	hypothetical protein	bi	sce_3260	98.81	hypothetical protein
SCE1572_3928	Cytochrome c family protein	bi	sce_3261	89.3	Cytochrome c family protein
SCE1572_3929	FIG01088576: hypothetical protein	bi	sce_3262	83.19	FIG01088576: hypothetical protein
SCE1572_3930	FIG01087893: hypothetical protein	bi	sce_3263	90.51	FIG01087893: hypothetical protein
SCE1572_3931	hypothetical protein	bi	sce_3264	89.63	hypothetical protein
SCE1572_3932	FIG01085140: hypothetical protein	bi	sce_3265	91.99	FIG01085140: hypothetical protein
SCE1572_3933	Signal recognition particle receptor protein FtsY (=alpha subunit) (TC 3.A.5.1.1)	bi	sce_3267	91.03	Signal recognition particle receptor protein FtsY (=alpha subunit) (TC 3.A.5.1.1)

SCE1572_3934	hypothetical protein	-		0	
SCE1572_3935	hypothetical protein	bi	sce_3268	84.12	hypothetical protein
SCE1572_3936	hypothetical protein	-		0	
SCE1572_3937	FIG01088207: hypothetical protein	bi	sce_3270	91.35	FIG01088207: hypothetical protein
SCE1572_3938	FIG01086869: hypothetical protein	bi	sce_3271	92.73	FIG01086869: hypothetical protein
SCE1572_3939	UPF0102 protein SCO5602	bi	sce_3272	88.79	UPF0102 protein SCO5602
SCE1572_3940	MEGF11 protein	bi	sce_3273	72.01	MEGF11 protein
SCE1572_3941	FIG01089532: hypothetical protein	bi	sce_3274	95.07	FIG01089532: hypothetical protein
SCE1572_3942	TPR domain protein, putative component of TonB system	bi	sce_3275	96.28	TPR domain protein, putative component of TonB system
SCE1572_3943	FOG: TPR repeat	bi	sce_3276	93.31	COG0457: FOG: TPR repeat
SCE1572_3944	hypothetical protein	bi	sce_3277	91.67	hypothetical protein
SCE1572_3945	hypothetical abductin-like protein	bi	sce_3278	80.84	hypothetical abductin-like protein
SCE1572_3946	TPR Domain containing protein	bi	sce_3279	96.01	TPR Domain containing protein
SCE1572_3947	TPR domain protein, putative component of TonB system	bi	sce_3281	95.79	TPR domain protein, putative component of TonB system
SCE1572_3948	serine/threonine protein kinase	bi	sce_3282	89.11	serine/threonine protein kinase
SCE1572_3949	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_3283	93.44	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_3950	hypothetical protein	bi	sce_3284	78.38	hypothetical protein
SCE1572_3951	hypothetical protein	bi	sce_3285	92.19	hypothetical protein
SCE1572_3952	hypothetical protein	bi	sce_3286	89.7	hypothetical protein
SCE1572_3953	FIG01087100: hypothetical protein	bi	sce_3287	80.31	GTP-binding protein EngA
SCE1572_3954	hypothetical protein	-		0	
SCE1572_3955	Rhs-family protein	bi	sce_121	39.54	Putative membrane protein
SCE1572_3956	Rhs-family protein	uni	sce_10193	38.33	Rhs family carbohydrate-binding protein
SCE1572_3957	hypothetical protein	-		0	
SCE1572_3958	hypothetical protein	bi	sce_8665	38.03	hypothetical protein
SCE1572_3959	Nitrogen regulation protein NR(I)	bi	sce_3289	92.38	Nitrogen regulation protein NR(I)
SCE1572_3960	Gll0645 protein	bi	sce_3290	49.5	Exoglucanase 3 precursor (EC 3.2.1.91) (Exocellobiohydrolase 3) (1,4-beta-cellobiohydrolase 3)
SCE1572_3961	FIG01086282: hypothetical protein	bi	sce_2530	77.09	FIG01086282: hypothetical protein
SCE1572_3962	Cellulose-binding domain protein	bi	sce_3292	86.42	Cellulose-binding domain protein
SCE1572_3963	Tat (Twin-arginine translocation) pathway signal sequence domain protein	bi	sce_3293	85.68	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_3964	Sll0670 protein	bi	sce_3294	89.39	Sll0670 protein
SCE1572_3965	FIG01086360: hypothetical protein	bi	sce_3295	83.9	FIG01086360: hypothetical protein
SCE1572_3966	hypothetical protein	uni	sce_5560	30.4	FIG01087606: hypothetical protein
SCE1572_3967	Proline-rich protein	bi	sce_10164	81.65	Proline-rich protein
SCE1572_3968	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_3296	85.28	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_3969	RsbR, positive regulator of sigma-B	bi	sce_3297	83.23	RsbR, positive regulator of sigma-B
SCE1572_3970	hypothetical protein	bi	sce_3299	90	hypothetical protein
SCE1572_3971	serine/threonine protein kinase	bi	sce_3300	95.23	serine/threonine protein kinase
SCE1572_3972	Molybdenum cofactor biosynthesis protein MoaD	bi	sce_3301	95.18	Molybdenum cofactor biosynthesis protein MoaD
SCE1572_3973	Molybdenum cofactor biosynthesis protein MoaA	bi	sce_3302	91.64	Molybdenum cofactor biosynthesis protein MoaA
SCE1572_3974	Molybdenum cofactor biosynthesis protein MoaC	bi	sce_3303	94.15	Molybdenum cofactor biosynthesis protein MoaC
SCE1572_3975	Molybdenum cofactor biosynthesis protein MoaE	bi	sce_3304	80	Molybdenum cofactor biosynthesis protein MoaE
SCE1572_3976	Phosphate transport system regulatory protein PhoU	bi	sce_3305	94.61	Phosphate transport system regulatory protein PhoU
SCE1572_3977	Phosphate transport ATP-binding protein PstB (TC 3.A.1.7.1)	bi	sce_3306	91.99	Phosphate transport ATP-binding protein PstB (TC 3.A.1.7.1)
SCE1572_3978	Phosphate transport system permease protein PstA (TC 3.A.1.7.1)	bi	sce_3307	91.45	Phosphate transport system permease protein PstA (TC 3.A.1.7.1)
SCE1572_3979	Phosphate transport system permease protein PstC (TC 3.A.1.7.1)	bi	sce_3308	89.69	Phosphate transport system permease protein PstC (TC 3.A.1.7.1)
SCE1572_3980	Phosphate ABC transporter, periplasmic phosphate-binding protein PstS (TC 3.A.1.7.1)	bi	sce_3309	91.6	Phosphate ABC transporter, periplasmic phosphate-binding protein PstS (TC 3.A.1.7.1)
SCE1572_3981	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)	bi	sce_3310	89.94	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)
SCE1572_3982	Phosphate regulon transcriptional regulatory protein PhoB (SphR)	bi	sce_3311	98.24	Phosphate regulon transcriptional regulatory protein PhoB (SphR)
SCE1572_3983	hypothetical protein	bi	sce_3314	88.89	hypothetical protein
SCE1572_3984	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase (EC 2.3.1.117)	bi	sce_3315	96.91	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase (EC 2.3.1.117)
SCE1572_3985	N-succinyl-L,L-diaminopimelate desuccinylase (EC 3.5.1.18)	bi	sce_3316	93.19	N-succinyl-L,L-diaminopimelate desuccinylase (EC 3.5.1.18)
SCE1572_3986	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-)	bi	sce_3317	87.42	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-)
SCE1572_3987	Chemotaxis protein CheV (EC 2.7.3.-)	bi	sce_3318	93.06	Chemotaxis protein CheV (EC 2.7.3.-)
SCE1572_3988	twitching motility protein PilH	bi	sce_3319	96.73	twitching motility protein PilH
SCE1572_3989	sensor histidine kinase	bi	sce_3320	82.56	sensor histidine kinase
SCE1572_3990	FrgA	bi	sce_3321	69.04	FrgA
SCE1572_3991	DsbA oxidoreductase	bi	sce_3322	93.77	putative lipoprotein
SCE1572_3992	hypothetical protein	bi	sce_3323	64.77	hypothetical protein
SCE1572_3993	FIG01086203: hypothetical protein	bi	sce_3324	76.54	FIG01086203: hypothetical protein
SCE1572_3994	hypothetical protein	bi	sce_3325	45.26	hypothetical protein
SCE1572_3995	hypothetical protein	uni	sce_3858	38.34	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_3996	FIG01089076: hypothetical protein	bi	sce_3326	66.47	FIG01089076: hypothetical protein
SCE1572_3997	FIG01086567: hypothetical protein	bi	sce_3327	94.16	FIG01086567: hypothetical protein
SCE1572_3998	short chain dehydrogenase(EC:1.1.1.-)	bi	sce_3328	91.16	short chain dehydrogenase
SCE1572_3999	Adenosylhomocysteinase (EC 3.3.1.1)	bi	sce_3329	97.49	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_4000	transcriptional regulator, ArsR family/methyltransferase, UbiE/COQ5 family	bi	sce_3330	92.68	Predicted regulator of methionine metabolism, ArsR family
SCE1572_4001	peptidase, M16 (pitrilysin) family(EC:3.4.24.-)	bi	sce_3331	94.43	peptidase, M16 (pitrilysin) family(EC:3.4.24.-)
SCE1572_4002	Peptidyl-prolyl cis-trans isomerase ppiD (EC 5.2.1.8)	bi	sce_3332	87.68	Peptidyl-prolyl cis-trans isomerase ppiD (EC 5.2.1.8)
SCE1572_4003	FIG01087034: hypothetical protein	bi	sce_3333	93.71	FIG01087034: hypothetical protein
SCE1572_4004	hypothetical protein	bi	sce_3334	66.67	hypothetical protein
SCE1572_4005	hypothetical protein	bi	sce_3335	92.24	hypothetical protein
SCE1572_4006	DinG family ATP-dependent helicase YoaA	bi	sce_3336	92.19	DinG family ATP-dependent helicase YoaA
SCE1572_4007	FIG01086441: hypothetical protein	bi	sce_3337	83.12	FIG01086441: hypothetical protein
SCE1572_4008	hypothetical protein	bi	sce_3338	84.34	hypothetical protein
SCE1572_4009	PROBABLE OXIDOREDUCTASE GMC-TYPE (EC 1.-.-.-)	bi	sce_3339	91.24	Uncharacterized GMC-type oxidoreductase y4nJ (EC 1.1.-.-)
SCE1572_4010	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_3340	93.44	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_4011	Cell division protein FtsK	bi	sce_3341	84.34	Cell division protein FtsK
SCE1572_4012	FIG01089524: hypothetical protein	bi	sce_3342	86.06	FIG01089524: hypothetical protein
SCE1572_4013	hypothetical protein	bi	sce_3343	80.29	hypothetical protein
SCE1572_4014	hypothetical protein	-		0	
SCE1572_4015	putative lipoprotein	bi	sce_3344	93.83	FIG00998302: hypothetical protein
SCE1572_4016	Glutaredoxin-related protein	uni	sce_7244	53.76	Uncharacterized monothiol glutaredoxin ycf64-like
SCE1572_4017	Uracil-DNA glycosylase, family 5	bi	sce_3345	88.1	Uracil-DNA glycosylase, family 5
SCE1572_4018	Lipase precursor (EC 3.1.1.3)	bi	sce_3346	90.6	Lipase precursor (EC 3.1.1.3)
SCE1572_4019	FIG01086560: hypothetical protein	bi	sce_3347	82.43	FIG01086560: hypothetical protein
SCE1572_4020	Adenine phosphoribosyltransferase (EC 2.4.2.7)	bi	sce_3348	93.5	Adenine phosphoribosyltransferase (EC 2.4.2.7)
SCE1572_4021	5-nucleotidase SurE (EC 3.1.3.5)	bi	sce_3349	93.73	5-nucleotidase SurE (EC 3.1.3.5)
SCE1572_4022	Aldehyde dehydrogenase (EC 1.2.1.3)	bi	sce_3350	88.59	Aldehyde dehydrogenase (EC 1.2.1.3)
SCE1572_4023	alginate regulatory protein AlgP	bi	sce_3351	70.11	FIG01087540: hypothetical protein
SCE1572_4024	Cytochrome c551 peroxidase (EC 1.11.1.5)	bi	sce_3352	79.17	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_4025	outer membrane efflux protein	bi	sce_3353	60.14	outer membrane efflux protein
SCE1572_4026	Pyrophosphate-energized proton pump (EC 3.6.1.1)	bi	sce_3354	97.15	Pyrophosphate-energized proton pump (EC 3.6.1.1)
SCE1572_4027	Helicase, SNF2/RAD54 family	bi	sce_3355	98.02	Helicase, SNF2/RAD54 family
SCE1572_4028	hypothetical protein	bi	sce_3356	95.02	hypothetical protein
SCE1572_4029	hypothetical protein	bi	sce_3357	96.81	transport energizing protein, ExbD/TolR family
SCE1572_4030	MotA/TolQ/ExbB proton channel family protein	bi	sce_3358	99.09	MotA/TolQ/ExbB proton channel family protein
SCE1572_4031	MotA/TolQ/ExbB proton channel family protein	bi	sce_3360	100	MotA/TolQ/ExbB proton channel family protein
SCE1572_4032	TolR protein	bi	sce_3361	96.3	TolR protein
SCE1572_4033	Adventurous gliding motility protein S	uni	sce_3362	95.24	adventurous gliding motility protein S
SCE1572_4034	adventurous gliding motility protein S	bi	sce_3362	99.44	adventurous gliding motility protein S
SCE1572_4035	hypothetical protein	bi	sce_3363	95.48	hypothetical protein
SCE1572_4036	D-glycerate 2-kinase (EC 2.7.1.-)	bi	sce_3364	87.26	D-glycerate 2-kinase (EC 2.7.1.-)
SCE1572_4037	hypothetical protein	bi	sce_3365	73.44	hypothetical protein
SCE1572_4038	Deoxyguanosinetriphosphate triphosphohydrolase (EC 3.1.5.1)	bi	sce_3366	95.03	Deoxyguanosinetriphosphate triphosphohydrolase (EC 3.1.5.1)
SCE1572_4039	hypothetical protein	-		0	
SCE1572_4040	hypothetical protein	-		0	
SCE1572_4041	FIG01085049: hypothetical protein	bi	sce_3368	98.17	FIG01085049: hypothetical protein
SCE1572_4042	hypothetical protein	-		0	
SCE1572_4043	serine/threonine-protein kinase Pkn3(EC:2.7.11.1)	bi	sce_3369	81.74	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_4044	DNA mismatch repair endonuclease MutH	bi	sce_3370	92.38	DNA mismatch repair endonuclease MutH
SCE1572_4045	serine/threonine protein kinase	bi	sce_3372	92.67	serine/threonine protein kinase
SCE1572_4046	hypothetical protein	-		0	
SCE1572_4047	Kynureninase (EC 3.7.1.3) homolog	bi	sce_3374	87.5	Kynureninase (EC 3.7.1.3) homolog
SCE1572_4048	iron permease FTR1	bi	sce_5533	42.23	Cytochrome c family protein
SCE1572_4049	FIG01084932: hypothetical protein	bi	sce_3375	91.55	FIG01084932: hypothetical protein
SCE1572_4050	Phosphoenolpyruvate carboxykinase [GTP] (EC 4.1.1.32)	bi	sce_3376	90.58	Phosphoenolpyruvate carboxykinase [GTP] (EC 4.1.1.32)
SCE1572_4051	regulatory protein, ArsR	bi	sce_3377	94.59	regulatory protein, ArsR
SCE1572_4052	Octaprenyl-diphosphate synthase (EC 2.5.1.-) / Dimethylallyltransferase (EC 2.5.1.1) / Geranyltranstransferase (farnesyldiphos	bi	sce_3378	93.3	Octaprenyl-diphosphate synthase (EC 2.5.1.-) / Dimethylallyltransferase (EC 2.5.1.1) / Geranyltranstransferase (farnesyldiphosphate
SCE1572_4053	Hydroxymethylglutaryl-CoA reductase (EC 1.1.1.34)	bi	sce_3379	91.15	Hydroxymethylglutaryl-CoA reductase (EC 1.1.1.34)
SCE1572_4054	2-heptaprenyl-1,4-naphthoquinone methyltransferase (EC 2.1.1.163)	bi	sce_3380	91.77	2-heptaprenyl-1,4-naphthoquinone methyltransferase (EC 2.1.1.163)
SCE1572_4055	2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylic-acid synthase (EC 2.2.1.9)	bi	sce_3381	89.38	2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylic-acid synthase (EC 2.2.1.9)
SCE1572_4056	1,4-dihydroxy-2-naphthoate octaprenyltransferase (EC 2.5.1.74)	bi	sce_3382	87.05	1,4-dihydroxy-2-naphthoate octaprenyltransferase (EC 2.5.1.74)
SCE1572_4057	hypothetical protein	uni	sce_3383	68.42	O-succinylbenzoate synthase (EC 4.2.1.113)
SCE1572_4058	O-succinylbenzoate synthase (EC 4.2.1.113)	bi	sce_3383	84.25	O-succinylbenzoate synthase (EC 4.2.1.113)
SCE1572_4059	O-succinylbenzoic acid--CoA ligase (EC 6.2.1.26)	bi	sce_3384	88.05	O-succinylbenzoic acid--CoA ligase (EC 6.2.1.26)
SCE1572_4060	4-hydroxybenzoyl-CoA thioesterase family active site	bi	sce_3385	94.44	4-hydroxybenzoyl-CoA thioesterase family active site
SCE1572_4061	FIG01086129: hypothetical protein	bi	sce_3386	84.99	FIG01086129: hypothetical protein
SCE1572_4062	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)	bi	sce_3387	89.71	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)
SCE1572_4063	hypothetical protein	bi	sce_3388	80.1	hypothetical protein
SCE1572_4064	hypothetical protein	-		0	
SCE1572_4065	serine/threonine protein kinase with CHASE2 sensor	bi	sce_3390	76.53	putative serine/threonine protein kinase
SCE1572_4066	TPR domain protein, putative component of TonB system	bi	sce_3391	92.56	TPR domain protein, putative component of TonB system
SCE1572_4067	Twin-arginine translocation protein TatB	bi	sce_3392	89.05	integral membrane protein
SCE1572_4068	NADH dehydrogenase (EC 1.6.99.3)	bi	sce_3393	85.17	NADH dehydrogenase (EC 1.6.99.3)
SCE1572_4069	hypothetical protein	-		0	
SCE1572_4070	FIG01087510: hypothetical protein	bi	sce_3394	92.77	FIG01087510: hypothetical protein
SCE1572_4071	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY	bi	sce_3396	90.44	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY
SCE1572_4072	Serine/threonine protein kinase PrkC, regulator of stationary phase	bi	sce_3397	69.8	serine/threonine-protein kinase Pkn6(EC:2.7.11.1)
SCE1572_4073	Biosynthetic Aromatic amino acid aminotransferase beta (EC 2.6.1.57)	bi	sce_3398	90.55	Biosynthetic Aromatic amino acid aminotransferase beta (EC 2.6.1.57)
SCE1572_4074	FIG01088642: hypothetical protein	bi	sce_3399	91.58	FIG01088642: hypothetical protein
SCE1572_4075	hypothetical protein	bi	sce_3401	91.43	hypothetical protein
SCE1572_4076	hypothetical protein	-		0	
SCE1572_4077	FIG01089039: hypothetical protein	bi	sce_3403	75	FIG01089039: hypothetical protein
SCE1572_4078	L-asparaginase (EC 3.5.1.1)	bi	sce_3404	89.44	L-asparaginase (EC 3.5.1.1)
SCE1572_4079	hypothetical protein	-		0	
SCE1572_4080	5-Enolpyruvylshikimate-3-phosphate synthase (EC 2.5.1.19)	bi	sce_3406	93.46	5-Enolpyruvylshikimate-3-phosphate synthase (EC 2.5.1.19)
SCE1572_4081	hypothetical protein	uni	sce_1971	35.31	keratin associated protein
SCE1572_4082	hypothetical protein	-		0	
SCE1572_4083	hypothetical protein	-		0	
SCE1572_4084	FIG01085676: hypothetical protein	bi	sce_3407	82.7	FIG01085676: hypothetical protein
SCE1572_4085	Ferredoxin	bi	sce_3410	87.25	Ferredoxin
SCE1572_4086	Predicted rhamnogalacturonan lyase in rhamnose utilization cluster	bi	sce_3412	83.99	Predicted rhamnogalacturonan lyase in rhamnose utilization cluster
SCE1572_4087	Transcriptional regulator, AraC family	uni	sce_9985	37.69	Transcriptional regulator, AraC family
SCE1572_4088	LamG domain protein jellyroll fold domain protein	uni	sce_615	35.52	peptidase, M19 family
SCE1572_4089	FIG01085103: hypothetical protein	bi	sce_3415	76.44	FIG01085103: hypothetical protein
SCE1572_4090	Ubiquinone/menaquinone biosynthesis methyltransferase	bi	sce_3416	89.3	Ubiquinone/menaquinone biosynthesis methyltransferase
SCE1572_4091	Alpha-ketoglutarate-dependent taurine dioxygenase (EC 1.14.11.17)	bi	sce_3417	89.44	Alpha-ketoglutarate-dependent taurine dioxygenase (EC 1.14.11.17)
SCE1572_4092	Copper-containing nitrite reductase (EC 1.7.2.1)	bi	sce_3418	85.86	Copper-containing nitrite reductase (EC 1.7.2.1)
SCE1572_4093	hypothetical protein	uni	sce_3419	85.58	hypothetical protein
SCE1572_4094	hypothetical protein	bi	sce_3419	90.61	hypothetical protein
SCE1572_4095	hypothetical protein	bi	sce_3420	89.35	hypothetical protein
SCE1572_4096	hypothetical protein	-		0	
SCE1572_4097	hypothetical protein	-		0	

SCE1572_4098	putative lyase	bi	sce_3422	92.65	putative lyase
SCE1572_4099	O-methyltransferase	uni	sce_325	42.2	O-methyltransferase
SCE1572_4100	alpha amylase catalytic region	bi	sce_3438	78.59	alpha amylase catalytic region
SCE1572_4101	Cytochrome P450	bi	sce_3439	86.94	Cytochrome P450
SCE1572_4102	hypothetical protein	-		0	
SCE1572_4103	periplasmic ATP/GTP-binding protein	uni	sce_1486	57.14	VgrG protein
SCE1572_4104	hypothetical protein	-		0	
SCE1572_4105	Transcriptional regulator, AraC family	bi	sce_3459	81.42	transcriptional regulator, AraC family protein
SCE1572_4106	5-aminopentanamidase (EC 3.5.1.30)	uni	sce_4305	33.97	5-aminopentanamidase (EC 3.5.1.30)
SCE1572_4107	EBNA-1	bi	sce_1137	60.29	Uncharacterized protein with a C-terminal OMP (outer membrane protein) domain
SCE1572_4108	hypothetical protein	-		0	
SCE1572_4109	hypothetical protein	-		0	
SCE1572_4110	FIG01085519: hypothetical protein	bi	sce_3461	78.75	FIG01085519: hypothetical protein
SCE1572_4111	polysaccharide export protein	bi	sce_3462	91.63	polysaccharide export protein
SCE1572_4112	Putative membrane protein of ExoQ family, involved in exopolysaccharide production	bi	sce_3463	85.94	Putative membrane protein of ExoQ family, involved in exopolysaccharide production
SCE1572_4113	hypothetical protein	bi	sce_3464	83.44	hypothetical protein
SCE1572_4114	Glutathione S-transferase (EC 2.5.1.18)	uni	sce_1670	37.26	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_4115	N-acetylglucosamine-1-phosphate uridyltransferase eukaryotic (EC 2.7.7.23)	bi	sce_3465	93.09	N-acetylglucosamine-1-phosphate uridyltransferase eukaryotic (EC 2.7.7.23)
SCE1572_4116	PE_PGRS family protein	bi	sce_4897	69.14	FIG01086098: hypothetical protein
SCE1572_4117	hypothetical protein	uni	sce_9559	27.35	Exonuclease SbcC
SCE1572_4118	O-methyltransferase-related protein	bi	sce_3468	85.38	O-methyltransferase-related protein
SCE1572_4119	SSU ribosomal protein S4p (S9e)	bi	sce_3469	88.67	SSU ribosomal protein S4p (S9e)
SCE1572_4120	Cholesterol oxidase (EC 1.1.3.6)	uni	sce_581	31.67	Polyhydroxyalkanoic acid synthase
SCE1572_4121	phosphoesterase	bi	sce_8009	37.84	Phosphoesterase family protein [EC:3.1.4.3]
SCE1572_4122	Transcriptional regulator, PadR family	bi	sce_3467	93.59	Transcriptional regulator, PadR family
SCE1572_4123	hypothetical protein	-		0	
SCE1572_4124	PIN (PilT N terminus) domain	-		0	
SCE1572_4125	Tyrosine-protein kinase EpsD (EC 2.7.10.2)	bi	sce_3471	78.87	tyrosine kinase(EC:2.7.1.112)
SCE1572_4126	hypothetical protein	-		0	
SCE1572_4127	hypothetical protein	-		0	
SCE1572_4128	Lactoylglutathione lyase and related lyases	bi	sce_3472	84.51	Lactoylglutathione lyase and related lyases
SCE1572_4129	FIG00964757: hypothetical protein	bi	sce_3473	93.06	FIG00964757: hypothetical protein
SCE1572_4130	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_3474	95.06	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_4131	hypothetical protein	bi	sce_3475	89.87	hypothetical protein
SCE1572_4132	Glycosyltransferase (EC 2.4.1.-)	bi	sce_3476	95.25	Glycosyltransferase (EC 2.4.1.-)
SCE1572_4133	FIG01088564: hypothetical protein	bi	sce_3477	83.38	FIG01088564: hypothetical protein
SCE1572_4134	metallophosphoesterase	uni	sce_1117	26.16	FIG01088538: hypothetical protein
SCE1572_4135	hypothetical protein	-		0	
SCE1572_4136	hypothetical protein	-		0	
SCE1572_4137	hypothetical protein	bi	sce_3478	84.21	hypothetical protein
SCE1572_4138	PE-PGRS FAMILY PROTEIN	bi	sce_3483	89.59	Fimh-like protein
SCE1572_4139	hypothetical protein	bi	sce_3484	85.19	hypothetical protein
SCE1572_4140	conserved hypothetical protein	bi	sce_3485	88.92	conserved hypothetical protein
SCE1572_4141	3-oxoacyl-(acyl-carrier-protein) synthase	bi	sce_3486	85.88	3-oxoacyl-(acyl-carrier-protein) synthase
SCE1572_4142	hypothetical protein	-		0	
SCE1572_4143	hypothetical protein	-		0	
SCE1572_4144	hypothetical protein	uni	sce_2271	32.02	hypothetical protein
SCE1572_4145	FIG01085227: hypothetical protein	uni	sce_1006	69.75	FIG01085227: hypothetical protein
SCE1572_4146	hypothetical protein	-		0	
SCE1572_4147	ADP-ribose 1''-phosphate phophatase	bi	sce_7614	94.81	ADP-ribose 1''-phosphate phophatase
SCE1572_4148	hypothetical protein	bi	sce_7615	96.05	conserved hypothetical protein
SCE1572_4149	hypothetical protein	-		0	
SCE1572_4150	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)	uni	sce_1410	54.66	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)
SCE1572_4151	Outer membrane protein romA	bi	sce_3080	87.9	Outer membrane protein romA
SCE1572_4152	Transcriptional regulator, TetR family	bi	sce_8359	73.11	Transcriptional regulator, TetR family
SCE1572_4153	hypothetical protein	-		0	
SCE1572_4154	hypothetical protein	-		0	
SCE1572_4155	metallophosphoesterase	bi	sce_2035	76.12	hypothetical protein
SCE1572_4156	Tetratricopeptide TPR_2 repeat protein	bi	sce_3492	90.29	Large extracellular alpha-helical protein
SCE1572_4157	hypothetical protein	-		0	
SCE1572_4158	hypothetical protein	bi	sce_2442	83.33	hypothetical protein
SCE1572_4159	GCN5-related N-acetyltransferase	-		0	
SCE1572_4160	Transcriptional regulator, AraC family	uni	sce_7055	37.86	Transcriptional regulator, AraC family
SCE1572_4161	hypothetical protein	-		0	
SCE1572_4162	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_5211	44.27	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_4163	putative cytochrome P450 hydroxylase	uni	sce_7075	48.22	putative cytochrome P450 hydroxylase
SCE1572_4164	Transcriptional regulator, LysR family	uni	sce_9329	38.7	Transcriptional regulator, LysR family
SCE1572_4165	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_8328	38.65	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_4166	hypothetical protein	bi	sce_9855	39.47	FIG01088188: hypothetical protein
SCE1572_4167	transcriptional regulator, AraC/XylS family	uni	sce_2490	37.86	Transcriptional regulator, AraC family
SCE1572_4168	hypothetical protein	-		0	
SCE1572_4169	hypothetical protein	-		0	
SCE1572_4170	hypothetical protein	-		0	
SCE1572_4171	VgrG protein	bi	sce_3495	91.77	VgrG protein
SCE1572_4172	VgrG protein	bi	sce_3496	90.75	VgrG protein
SCE1572_4173	VgrG protein	bi	sce_3497	87.51	VgrG protein
SCE1572_4174	hypothetical protein	bi	sce_3498	71.36	hypothetical protein
SCE1572_4175	hypothetical protein	-		0	
SCE1572_4176	hypothetical protein	-		0	
SCE1572_4177	hypothetical protein	-		0	
SCE1572_4178	hypothetical protein	-		0	
SCE1572_4179	hypothetical protein	bi	sce_3503	59.2	VgrG protein
SCE1572_4180	hypothetical protein	bi	sce_3504	84	hypothetical protein
SCE1572_4181	hypothetical protein	bi	sce_3505	80.11	FIG01087379: hypothetical protein
SCE1572_4182	hypothetical protein	uni	sce_8826	37.15	FIG01087894: hypothetical protein
SCE1572_4183	hypothetical protein	-		0	
SCE1572_4184	Outer membrane protein H precursor	bi	sce_3506	83.67	Outer membrane protein H precursor
SCE1572_4185	serine/threonine protein kinase	bi	sce_3507	83.48	Serine/threonine protein kinase (EC 2.7.11.1)
SCE1572_4186	hypothetical protein	bi	sce_3508	49.15	FIG01089183: hypothetical protein
SCE1572_4187	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_3509	91.89	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_4188	FIG01086348: hypothetical protein	bi	sce_3510	69.31	FIG01086348: hypothetical protein
SCE1572_4189	hypothetical protein	bi	sce_3511	70.61	hypothetical protein
SCE1572_4190	DNA mismatch repair protein MutS	bi	sce_3512	92.18	DNA mismatch repair protein MutS
SCE1572_4191	Hemagglutinin/hemolysin-related protein	bi	sce_3513	82.41	Hemagglutinin/hemolysin-related protein
SCE1572_4192	hypothetical protein	bi	sce_3514	86.38	hypothetical protein
SCE1572_4193	SSU ribosomal protein S2p (SAe)	bi	sce_3515	96.61	SSU ribosomal protein S2p (SAe)
SCE1572_4194	Translation elongation factor Ts	bi	sce_3516	86.39	Translation elongation factor Ts
SCE1572_4195	polysaccharide deacetylase domain protein	bi	sce_3517	90.42	polysaccharide deacetylase domain protein
SCE1572_4196	hypothetical protein	-		0	
SCE1572_4197	hypothetical protein	-		0	
SCE1572_4198	hypothetical protein	-		0	
SCE1572_4199	hypothetical protein	bi	sce_3518	86.31	hypothetical protein
SCE1572_4200	conserved hypothetical protein	uni	sce_479	72.52	FIG01088809: hypothetical protein
SCE1572_4201	Protein crcB homolog	bi	sce_3519	88.89	CrcB protein
SCE1572_4202	AAA ATPase	bi	sce_3520	93.89	AAA ATPase
SCE1572_4203	Methionine ABC transporter ATP-binding protein	bi	sce_3521	95.42	Methionine ABC transporter ATP-binding protein
SCE1572_4204	hypothetical protein	bi	sce_3522	92.63	hypothetical protein
SCE1572_4205	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_3523	90.58	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_4206	[Protein-PII] uridylyltransferase (EC 2.7.7.59)	bi	sce_3524	91.4	[Protein-PII] uridylyltransferase (EC 2.7.7.59)
SCE1572_4207	Adenylate cyclase (EC 4.6.1.1)	bi	sce_3525	84.12	Adenylate cyclase (EC 4.6.1.1)
SCE1572_4208	Chromosome (plasmid) partitioning protein ParB / Stage 0 sporulation protein J	bi	sce_3526	96.69	Chromosome (plasmid) partitioning protein ParB / Stage 0 sporulation protein J
SCE1572_4209	Chromosome (plasmid) partitioning protein ParA	bi	sce_3527	90.68	Chromosome (plasmid) partitioning protein ParA / Sporulation initiation inhibitor protein Soj
SCE1572_4210	hypothetical protein	bi	sce_3528	90.74	hypothetical protein
SCE1572_4211	Cell division trigger factor (EC 5.2.1.8)	bi	sce_3529	96.21	Cell division trigger factor (EC 5.2.1.8)
SCE1572_4212	hypothetical protein	-		0	
SCE1572_4213	ATP-dependent Clp protease proteolytic subunit (EC 3.4.21.92)	bi	sce_3531	99.53	ATP-dependent Clp protease proteolytic subunit (EC 3.4.21.92)
SCE1572_4214	hypothetical protein	-		0	
SCE1572_4215	ATP-dependent Clp protease ATP-binding subunit ClpX	bi	sce_3533	99.28	ATP-dependent Clp protease ATP-binding subunit ClpX
SCE1572_4216	ATP-dependent protease La (EC 3.4.21.53) Type I	bi	sce_3534	99.28	ATP-dependent protease La (EC 3.4.21.53) Type I
SCE1572_4217	IMP cyclohydrolase (EC 3.5.4.10) / Phosphoribosylaminoimidazolecarboxamide formyltransferase (EC 2.1.2.3)	bi	sce_3535	91.68	IMP cyclohydrolase (EC 3.5.4.10) / Phosphoribosylaminoimidazolecarboxamide formyltransferase (EC 2.1.2.3)
SCE1572_4218	ParA family protein	bi	sce_3536	91.59	ParA family protein
SCE1572_4219	ParA family protein	uni	sce_3536	88.41	ParA family protein
SCE1572_4220	FIG01085099: hypothetical protein	bi	sce_3537	92.98	FIG01085099: hypothetical protein
SCE1572_4221	Putative membrane protein	bi	sce_3538	87.33	Putative membrane protein
SCE1572_4222	endoglucanase	uni	sce_1629	30.56	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_4223	FIG01088066: hypothetical protein	bi	sce_3539	79.17	FIG01088066: hypothetical protein
SCE1572_4224	hypothetical protein	-		0	
SCE1572_4225	FIG01087393: hypothetical protein	bi	sce_3540	84.05	FIG01087393: hypothetical protein
SCE1572_4226	hypothetical protein	uni	sce_4880	30.8	Gll0726 protein
SCE1572_4227	Anaerobic dehydrogenases, typically selenocysteine-containing	bi	sce_3542	88.99	Anaerobic dehydrogenases, typically selenocysteine-containing
SCE1572_4228	Mlr2351 protein	bi	sce_1020	83.8	Mlr2351 protein
SCE1572_4229	VgrG protein	bi	sce_118	65.14	VgrG protein
SCE1572_4230	hypothetical protein	uni	sce_5081	41.5	hypothetical protein
SCE1572_4231	hypothetical protein	uni	sce_117	24.8	VgrG protein
SCE1572_4232	pentapeptide repeat family protein	uni	sce_116	43.23	FIG01088201: hypothetical protein
SCE1572_4233	hypothetical protein	uni	sce_115	44.73	FIG01089519: hypothetical protein
SCE1572_4234	hypothetical protein	bi	sce_114	43.05	FIG01085979: hypothetical protein
SCE1572_4235	hypothetical protein	bi	sce_113	65.44	hypothetical protein
SCE1572_4236	FIG01086136: hypothetical protein	bi	sce_3543	79.57	FIG01086136: hypothetical protein
SCE1572_4237	Ribosomal large subunit pseudouridine synthase D (EC 4.2.1.70)	bi	sce_3544	94	Ribosomal large subunit pseudouridine synthase D (EC 4.2.1.70)
SCE1572_4238	hypothetical protein	-		0	
SCE1572_4239	putative secreted protein	bi	sce_3545	72.54	putative secreted protein
SCE1572_4240	FIG01086686: hypothetical protein	bi	sce_1034	71.13	FIG01086686: hypothetical protein
SCE1572_4241	hypothetical protein	-		0	
SCE1572_4242	hypothetical protein	-		0	
SCE1572_4243	hypothetical protein	uni	sce_4905	28.84	FIG01086791: hypothetical protein
SCE1572_4244	Glycogen synthase, ADP-glucose transglucosylase (EC 2.4.1.21)	bi	sce_3546	94.2	Glycogen synthase, ADP-glucose transglucosylase (EC 2.4.1.21)
SCE1572_4245	Conjugative transfer protein TrbL	bi	sce_3547	65.18	Conjugative transfer protein TrbL
SCE1572_4246	FIG01087712: hypothetical protein	bi	sce_3548	60.26	FIG01087712: hypothetical protein
SCE1572_4247	FIG01088142: hypothetical protein	bi	sce_3549	74.26	FIG01088142: hypothetical protein
SCE1572_4248	two-component sensor histidine kinase	bi	sce_3550	85.31	sensory box histidine kinase
SCE1572_4249	hypothetical protein	-		0	
SCE1572_4250	GTP-binding protein related to HflX	bi	sce_3551	93.99	GTP-binding protein related to HflX
SCE1572_4251	hypothetical protein	bi	sce_3553	72.14	hypothetical protein
SCE1572_4252	response regulator receiver protein	bi	sce_3554	95.38	CheY homolog
SCE1572_4253	hypothetical protein	bi	sce_3555	60	FIG01089493: hypothetical protein
SCE1572_4254	Tail fiber protein	-		0	
SCE1572_4255	hypothetical protein	bi	sce_3556	91.96	hypothetical protein
SCE1572_4256	FIG01085945: hypothetical protein	bi	sce_3557	90	FIG01085945: hypothetical protein
SCE1572_4257	hypothetical protein	bi	sce_3558	45.1	hypothetical protein
SCE1572_4258	SSU ribosomal protein S1p	bi	sce_3559	88.89	SSU ribosomal protein S1p
SCE1572_4259	hypothetical protein	-		0	
SCE1572_4260	type III restriction enzyme, res subunit	bi	sce_9165	92.6	helicase, DEAD/DEAH family
SCE1572_4261	glycosyltransferase	-		0	

SCE1572_4262	hypothetical protein	-		0	
SCE1572_4263	Carbamoyltransferase	uni	sce_2688	28.48	Nodulation protein nolO (EC 2.1.3.-)
SCE1572_4264	ArgE/DapE/Acy1 family protein	-		0	
SCE1572_4265	Polysaccharide deacetylase	uni	sce_7862	29.94	FIG01086488: hypothetical protein
SCE1572_4266	FIG00707640: hypothetical protein	uni	sce_8003	44.17	FIG01088889: hypothetical protein
SCE1572_4267	hypothetical protein	-		0	
SCE1572_4268	InterPro IPR000694:IPR006665 COGs COG2885	uni	sce_4615	33.4	FIG01085999: hypothetical protein
SCE1572_4269	3-oxoacyl-(acyl-carrier-protein) synthase	uni	sce_10429	33.14	hypothetical protein
SCE1572_4270	hypothetical protein	-		0	
SCE1572_4271	hypothetical protein	-		0	
SCE1572_4272	hypothetical protein	-		0	
SCE1572_4273	hypothetical protein	uni	sce_4652	29.79	FIG01085963: hypothetical protein
SCE1572_4274	Conserved domain protein	uni	sce_113	49.44	hypothetical protein
SCE1572_4275	hypothetical protein	uni	sce_8351	38.51	hypothetical protein
SCE1572_4276	VgrG protein	uni	sce_1338	34.88	VgrG protein
SCE1572_4277	VgrG protein	uni	sce_3496	36.39	VgrG protein
SCE1572_4278	VgrG protein	uni	sce_3496	33.94	VgrG protein
SCE1572_4279	hypothetical protein	uni	sce_3498	30.94	hypothetical protein
SCE1572_4280	hypothetical protein	uni	sce_3503	31.82	VgrG protein
SCE1572_4281	hypothetical protein	uni	sce_3215	35	hypothetical protein
SCE1572_4282	hypothetical protein	bi	sce_3583	93.91	hypothetical protein
SCE1572_4283	hypothetical protein	-		0	
SCE1572_4284	RsbR, positive regulator of sigma-B	uni	sce_2629	70.74	RsbR, positive regulator of sigma-B
SCE1572_4285	hypothetical protein	uni	sce_3858	30.15	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_4286	hypothetical protein	-		0	
SCE1572_4287	PBS lyase HEAT domain protein repeat-containing protein	uni	sce_2984	29.6	conserved hypothetical protein
SCE1572_4288	FIG01085486: hypothetical protein	bi	sce_3587	89.12	FIG01088294: hypothetical protein
SCE1572_4289	hypothetical protein	bi	sce_2038	82.39	FIG01084927: hypothetical protein
SCE1572_4290	hypothetical protein	uni	sce_2040	36.54	hypothetical protein
SCE1572_4291	hypothetical protein	uni	sce_2041	63.04	FIG01087636: hypothetical protein
SCE1572_4292	Conserved domain protein	bi	sce_3630	93.77	Conserved domain protein
SCE1572_4293	hypothetical protein	bi	sce_3631	96.97	hypothetical protein
SCE1572_4294	Superfamily II DNA and RNA helicase	bi	sce_3632	96	Superfamily II DNA and RNA helicase
SCE1572_4295	hypothetical protein	bi	sce_3633	92.41	conserved hypothetical protein
SCE1572_4296	SMC domain protein	bi	sce_3634	91.25	hypothetical protein
SCE1572_4297	hypothetical protein	-		0	
SCE1572_4298	hypothetical protein	uni	sce_8407	46.15	hypothetical protein
SCE1572_4299	FIG01150558: hypothetical protein	bi	sce_3635	86.31	FIG01150558: hypothetical protein
SCE1572_4300	ATP-dependent RNA helicase, DEAD/DEAH box family	bi	sce_3636	97.69	ATP-dependent RNA helicase, DEAD/DEAH box family
SCE1572_4301	Adenylate cyclase (EC 4.6.1.1)	bi	sce_3637	86.16	Adenylate cyclase (EC 4.6.1.1)
SCE1572_4302	hypothetical protein	-		0	
SCE1572_4303	Family with sequence similarity 118, member B	bi	sce_1742	36.84	hypothetical protein
SCE1572_4304	hypothetical protein	bi	sce_6369	56.23	hypothetical protein
SCE1572_4305	Chromosome partition protein MukB	bi	sce_6370	46.86	Chromosome partition protein MukB
SCE1572_4306	Chromosome partition protein MukE	bi	sce_6371	59.21	Chromosome partition protein MukE
SCE1572_4307	Chromosome partition protein MukF	bi	sce_6372	63.92	Chromosome partition protein MukF
SCE1572_4308	hypothetical protein	-		0	
SCE1572_4309	predicted protein	-		0	
SCE1572_4310	hypothetical protein	uni	sce_4297	40.21	Putative 2-component regulator
SCE1572_4311	5-methylcytosine-specific restriction related enzyme	bi	sce_3642	87.24	5-methylcytosine-specific restriction related enzyme
SCE1572_4312	Conserved domain protein	bi	sce_3643	89.96	Conserved domain protein
SCE1572_4313	hypothetical protein	-		0	
SCE1572_4314	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases	bi	sce_5479	92.65	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases
SCE1572_4315	hypothetical protein	bi	sce_5478	85.82	hypothetical protein
SCE1572_4316	FmdC precursor	bi	sce_5477	85.07	FmdC precursor
SCE1572_4317	Fumarylacetoacetate hydrolase family protein	bi	sce_5476	94.46	Fumarylacetoacetate hydrolase family protein
SCE1572_4318	4-hydroxyphenylpyruvate dioxygenase (EC 1.13.11.27)	uni	sce_5475	92.82	4-hydroxyphenylpyruvate dioxygenase (EC 1.13.11.27)
SCE1572_4319	Homogentisate 1,2-dioxygenase (EC 1.13.11.5)	uni	sce_5474	90.13	Homogentisate 1,2-dioxygenase (EC 1.13.11.5)
SCE1572_4320	VgrG protein	uni	sce_9510	50.74	VgrG protein
SCE1572_4321	Predicted cell-wall-anchored protein SasA (LPXTG motif)	uni	sce_9301	41.12	Predicted cell-wall-anchored protein SasA (LPXTG motif)
SCE1572_4322	pentapeptide repeat family protein	uni	sce_3055	49.69	hypothetical protein
SCE1572_4323	hypothetical protein	uni	sce_9303	47.13	hypothetical protein
SCE1572_4324	hypothetical protein	bi	sce_3057	56.98	hypothetical protein
SCE1572_4325	Carboxyl-terminal protease (EC 3.4.21.102)	bi	sce_9304	46.22	carboxyl-terminal protease(EC:3.4.21.102)
SCE1572_4326	Transcriptional regulator, LysR family	bi	sce_1249	49	Transcriptional regulator, LysR family
SCE1572_4327	O-methyltransferase (EC 2.1.1.-)	bi	sce_3613	91.5	O-methyltransferase (EC 2.1.1.-)
SCE1572_4328	Alcohol dehydrogenase (EC 1.1.1.1)	bi	sce_3644	83.24	Alcohol dehydrogenase (EC 1.1.1.1)
SCE1572_4329	Transcriptional regulator, LysR family	bi	sce_3645	86.5	Transcriptional regulator, LysR family
SCE1572_4330	hypothetical protein	-		0	
SCE1572_4331	hypothetical protein	bi	sce_1730	89.86	hypothetical protein
SCE1572_4332	Transcriptional regulator, LysR family	bi	sce_1731	93.25	Transcriptional regulator, LysR family
SCE1572_4333	hypothetical protein	-		0	
SCE1572_4334	Kynurenine formamidase, bacterial (EC 3.5.1.9)	bi	sce_1451	72.49	Kynurenine formamidase, bacterial (EC 3.5.1.9)
SCE1572_4335	kelch domain protein	uni	sce_7673	40.17	FIG01085006: hypothetical protein
SCE1572_4336	Hypothetical glycoside hydrolase, family 43, similar to arabinosidase	bi	sce_9941	73.59	Hypothetical glycoside hydrolase, family 43, similar to arabinosidase
SCE1572_4337	hypothetical protein	-		0	
SCE1572_4338	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)	bi	sce_3614	93.08	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)
SCE1572_4339	Transporter, LysE family	bi	sce_3615	87.18	Transporter, LysE family
SCE1572_4340	hypothetical protein	bi	sce_3617	82.83	putative protease
SCE1572_4341	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_3618	91.3	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_4342	Serine/threonine protein kinase	bi	sce_3619	80.57	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_4343	hypothetical protein	bi	sce_3620	42.33	FIG01086967: hypothetical protein
SCE1572_4344	hypothetical protein	-		0	
SCE1572_4345	ABC transporter, ATP-binding protein	bi	sce_6956	76.64	ABC transporter, ATP-binding protein
SCE1572_4346	hypothetical protein	-		0	
SCE1572_4347	FIG01089544: hypothetical protein	bi	sce_3647	80	FIG01089544: hypothetical protein
SCE1572_4348	PUTATIVE OXIDOREDUCTASE PROTEIN	bi	sce_3648	88.46	PUTATIVE OXIDOREDUCTASE PROTEIN
SCE1572_4349	sensor histidine kinase	uni	sce_7661	30.96	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_4350	Serine/threonine protein kinase	bi	sce_8789	89.31	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_4351	FIG01089454: hypothetical protein	bi	sce_8790	86.12	FIG01089454: hypothetical protein
SCE1572_4352	hypothetical protein	-		0	
SCE1572_4353	Glycine-rich cell wall structural protein 1 precursor	bi	sce_10400	80.37	Collagen triple helix repeat
SCE1572_4354	hypothetical protein	-		0	
SCE1572_4355	hypothetical protein	-		0	
SCE1572_4356	Transcriptional regulator, TetR family	bi	sce_6224	42.2	Transcriptional regulator, TetR family
SCE1572_4357	FIG01086876: hypothetical protein	bi	sce_4503	77.6	FIG01086876: hypothetical protein
SCE1572_4358	FIG01089333: hypothetical protein	bi	sce_4502	80.47	FIG01089333: hypothetical protein
SCE1572_4359	hypothetical protein	bi	sce_3650	72.46	hypothetical protein
SCE1572_4360	FIG01085189: hypothetical protein	bi	sce_3651	91.44	FIG01085189: hypothetical protein
SCE1572_4361	Hypothetical MbtH-like protein, PA2412 homolog	uni	sce_9233	80.95	Hypothetical MbtH-like protein, PA2412 homolog
SCE1572_4362	hypothetical protein	-		0	
SCE1572_4363	hypothetical protein	-		0	
SCE1572_4364	lipoxygenase family protein	-		0	
SCE1572_4365	hypothetical protein	uni	sce_133	24.86	putative cytochrome P450 hydroxylase
SCE1572_4366	Cell division protein FtsH (EC 3.4.24.-)	bi	sce_3652	60.68	Cell division protein FtsH (EC 3.4.24.-)
SCE1572_4367	TonB family protein / TonB-dependent receptor	bi	sce_3653	87.86	TonB family protein / TonB-dependent receptor
SCE1572_4368	Trk system potassium uptake protein TrkA	bi	sce_3654	94.71	Trk system potassium uptake protein TrkA
SCE1572_4369	Inner spore coat protein H	bi	sce_3656	83.27	Inner spore coat protein H
SCE1572_4370	transporter, major facilitator family	uni	sce_5480	30.06	3-hydroxyphenylpropionic acid transporter
SCE1572_4371	hypothetical protein	-		0	
SCE1572_4372	TPR repeat protein	bi	sce_1774	43.42	Gll2226 protein
SCE1572_4373	hypothetical protein	-		0	
SCE1572_4374	hypothetical protein	-		0	
SCE1572_4375	Serine/threonine-protein kinase pkn2 (EC 2.7.11.1)	bi	sce_1768	50.93	Serine/threonine-protein kinase pkn2 (EC 2.7.11.1)
SCE1572_4376	hypothetical protein	bi	sce_1773	40.68	FIG01086855: hypothetical protein
SCE1572_4377	RsbR, positive regulator of sigma-B	uni	sce_202	69.36	RsbR, positive regulator of sigma-B
SCE1572_4378	MbtH-like	bi	sce_7961	79.75	MbtH-like
SCE1572_4379	hypothetical protein	bi	sce_2664	41.3	FIG01085004: hypothetical protein
SCE1572_4380	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_9237	45.98	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_4381	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_9236	53.45	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_4382	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_9237	38.96	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_4383	coproporphyrinogen III oxidase	uni	sce_4303	30	Hypothetical radical SAM family enzyme, NOT coproporphyrinogen III oxidase, oxygen-independent
SCE1572_4384	SyrP-like protein	uni	sce_9232	47.16	syrP protein, putative
SCE1572_4385	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_9231	36.13	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_4386	Potassium channel beta chain	uni	sce_2194	44.51	putative oxidoreductase
SCE1572_4387	Peptidyl-glycine alpha-amidating monooxygenase precursor (EC 1.14.17.3)	bi	sce_3657	81.26	Peptidyl-glycine alpha-amidating monooxygenase precursor (EC 1.14.17.3)
SCE1572_4388	acetyltransferase, GNAT family	bi	sce_5785	80.12	Histone acetyltransferase HPA2 and related acetyltransferases
SCE1572_4389	hypothetical protein	-		0	
SCE1572_4390	RsbR, positive regulator of sigma-B	bi	sce_8231	68.94	RsbR, positive regulator of sigma-B
SCE1572_4391	Potassium uptake protein, integral membrane component, KtrB	bi	sce_3655	79.54	Potassium uptake protein TrkH
SCE1572_4392	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)	bi	sce_7959	79.43	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)
SCE1572_4393	Putative membrane-bound ClpP-class protease associated with aq_911	bi	sce_5977	45.63	Putative membrane-bound ClpP-class protease associated with aq_911
SCE1572_4394	DUF1432 domain-containing protein	bi	sce_5975	69.03	DUF1432 domain-containing protein
SCE1572_4395	hypothetical protein	-		0	
SCE1572_4396	Cell division protein FtsH (EC 3.4.24.-)	bi	sce_1708	80.95	hypothetical protein
SCE1572_4397	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_3659	94.31	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_4398	sensor histidine kinase	bi	sce_3660	93.06	sensor histidine kinase
SCE1572_4399	hypothetical protein	uni	sce_9725	32.88	Fibrillin 1 precursor
SCE1572_4400	General secretion pathway protein C	bi	sce_3662	83.94	General secretion pathway protein C
SCE1572_4401	hypothetical protein	bi	sce_3663	90.13	hypothetical protein
SCE1572_4402	Transcriptional regulator, AraC family	uni	sce_9883	34.07	FIG01086649: hypothetical protein
SCE1572_4403	conserved hypothetical protein	-		0	
SCE1572_4404	hypothetical protein	-		0	
SCE1572_4405	Dihydrofolate reductase (EC 1.5.1.3)	uni	sce_10151	33.17	Dihydrofolate reductase (EC 1.5.1.3)
SCE1572_4406	putative signal-transduction protein with CBS domains	uni	sce_2600	48.57	putative signal-transduction protein with CBS domains
SCE1572_4407	hypothetical protein	-		0	
SCE1572_4408	unknown	-		0	
SCE1572_4409	hypothetical protein	-		0	
SCE1572_4410	hypothetical protein	-		0	
SCE1572_4411	hypothetical protein	uni	sce_3929	27.9	Putative transport protein
SCE1572_4412	hypothetical protein	-		0	
SCE1572_4413	monovalent cation/proton antiporter, MnhG/PhaG subunit	uni	sce_2149	41.57	Na() H() antiporter subunit G
SCE1572_4414	multiple resistance and pH regulation related protein MrpF	uni	sce_2150	34.57	Na() H() antiporter subunit F
SCE1572_4415	Na() H() antiporter subunit E	uni	sce_2151	33.33	Na() H() antiporter subunit E
SCE1572_4416	Na() H() antiporter subunit D	uni	sce_2152	44.4	Na() H() antiporter subunit D
SCE1572_4417	Na() H() antiporter subunit C	uni	sce_2153	48.51	Na() H() antiporter subunit C
SCE1572_4418	Na? antiporter MnhB subunit-related protein	uni	sce_9585	38.1	Na() H() antiporter subunit A; Na() H() antiporter subunit B
SCE1572_4419	Na() H() antiporter subunit A; Na() H() antiporter subunit B	uni	sce_2155	38.55	Na() H() antiporter subunit A
SCE1572_4420	hypothetical protein	-		0	
SCE1572_4421	Assimilatory nitrate reductase large subunit (EC:1.7.99.4)	-		0	
SCE1572_4422	hypothetical protein	uni	sce_1292	25	FIG01085806: hypothetical protein
SCE1572_4423	hypothetical protein	-		0	
SCE1572_4424	Alpha,alpha-trehalose-phosphate synthase [UDP-forming] (EC 2.4.1.15) / Trehalose-6-phosphate phosphatase (EC 3.1.3.12)	bi	sce_3665	85.9	Alpha,alpha-trehalose-phosphate synthase [UDP-forming] (EC 2.4.1.15) / Trehalose-6-phosphate phosphatase (EC 3.1.3.12)
SCE1572_4425	hypothetical protein	-		0	

SCE1572_4426	possible methyltransferase	bi	sce_7566	92.34	possible methyltransferase
SCE1572_4427	Transcriptional regulator, LysR family	bi	sce_7565	92.43	transcriptional regulator, LysR family
SCE1572_4428	hypothetical protein	-		0	
SCE1572_4429	Na? antiporter NhaA type	bi	sce_3666	91.2	Na? antiporter NhaA type
SCE1572_4430	hypothetical protein	bi	sce_3667	87.32	hypothetical protein
SCE1572_4431	Phosphoglycerate mutase	bi	sce_3668	91.1	Phosphoglycerate mutase
SCE1572_4432	anti-sigma-factor antagonist	uni	sce_5951	37.44	RsbR, positive regulator of sigma-B
SCE1572_4433	RsbR, positive regulator of sigma-B	uni	sce_7990	51.32	RsbR, positive regulator of sigma-B
SCE1572_4434	Tat (Twin-arginine translocation) pathway signal sequence domain protein	uni	sce_7318	85.94	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_4435	tRNA pseudouridine synthase A (EC 4.2.1.70)	bi	sce_1685	44.78	tRNA pseudouridine synthase A (EC 4.2.1.70)
SCE1572_4436	hypothetical protein	uni	sce_3858	28.65	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_4437	hypothetical protein	uni	sce_6493	41.44	Translation initiation factor 2
SCE1572_4438	integrins alpha chain	bi	sce_5548	27.44	probable aggregation factor core protein MAFp3, isoform C
SCE1572_4439	probable tonb-dependent receptor signal peptide protein, putative	uni	sce_6504	31.5	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins
SCE1572_4440	L-sorbosone dehydrogenase	bi	sce_3676	90.6	L-sorbosone dehydrogenase
SCE1572_4441	transcriptional regulator, Fis family	bi	sce_3678	87.14	Anaerobic nitric oxide reductase transcription regulator NorR
SCE1572_4442	Nitric-oxide reductase (EC 1.7.99.7), quinol-dependent	bi	sce_3679	92.75	Nitric-oxide reductase (EC 1.7.99.7), quinol-dependent
SCE1572_4443	FIG01089063: hypothetical protein	bi	sce_6978	69.29	FIG01089063: hypothetical protein
SCE1572_4444	Propionyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.3)	bi	sce_3689	89.6	Propionyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.3)
SCE1572_4445	Propionyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.1.3)	bi	sce_3690	95.76	Propionyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.1.3)
SCE1572_4446	hypothetical protein	-		0	
SCE1572_4447	4-hydroxybutyrate coenzyme A transferase	bi	sce_3691	93.3	4-hydroxybutyrate coenzyme A transferase
SCE1572_4448	tRNA nucleotidyltransferase, A-adding (EC 2.7.7.25)	bi	sce_3692	89.55	tRNA nucleotidyltransferase, A-adding (EC 2.7.7.25)
SCE1572_4449	hypothetical protein	bi	sce_4170	88.06	hypothetical protein
SCE1572_4450	hypothetical protein	uni	sce_4542	82.01	hypothetical protein
SCE1572_4451	hypothetical protein	-		0	
SCE1572_4452	hypothetical protein	bi	sce_9472	71.53	hypothetical protein
SCE1572_4453	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)	bi	sce_3693	72.76	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)
SCE1572_4454	Universal stress protein family	bi	sce_3694	86.49	Universal stress protein family
SCE1572_4455	EBNA-1	bi	sce_3696	77.21	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_4456	FIG01088460: hypothetical protein	bi	sce_3699	63.19	FIG01088460: hypothetical protein
SCE1572_4457	hypothetical protein	-		0	
SCE1572_4458	Phenylpropionate dioxygenase and related ring-hydroxylating dioxygenases, large terminal subunit	bi	sce_3700	89.39	Phenylpropionate dioxygenase and related ring-hydroxylating dioxygenases, large terminal subunit
SCE1572_4459	FIG01089697: hypothetical protein	bi	sce_3702	88.6	FIG01089697: hypothetical protein
SCE1572_4460	hypothetical protein	bi	sce_7662	59.57	Transcriptional regulator
SCE1572_4461	beta-1,3-1,4-glucanase	bi	sce_3220	54.17	Xylanase
SCE1572_4462	hypothetical protein	-		0	
SCE1572_4463	serine/threonine protein kinase	bi	sce_7475	64.77	serine/threonine protein kinase
SCE1572_4464	beta-lactamase	uni	sce_1658	35.44	Beta-lactamase class C and other penicillin binding proteins
SCE1572_4465	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-); Cyanobacterial phytochrome B	uni	sce_10379	55.46	Two-component sensor histidine kinase
SCE1572_4466	FIG01088674: hypothetical protein	bi	sce_3703	90.06	FIG01088674: hypothetical protein
SCE1572_4467	conserved hypothetical protein	uni	sce_2593	43.03	FIG01087338: hypothetical protein
SCE1572_4468	transcriptional regulator, LysR family	uni	sce_8721	37.5	LysR-family transcriptional regulator
SCE1572_4469	FIG01085379: hypothetical protein	uni	sce_7563	58.92	FIG01085379: hypothetical protein
SCE1572_4470	hypothetical protein	bi	sce_3713	75.39	hypothetical protein
SCE1572_4471	FIG01086929: hypothetical protein	bi	sce_3714	83.69	FIG01086929: hypothetical protein
SCE1572_4472	transcriptional regulator, LysR family	uni	sce_3645	40.48	Transcriptional regulator, LysR family
SCE1572_4473	4-oxalocrotonate tautomerase	-		0	
SCE1572_4474	hypothetical protein	-		0	
SCE1572_4475	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_5993	76.03	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_4476	Transcriptional regulator, AraC family	bi	sce_1358	45.02	Transcriptional regulator, AraC family
SCE1572_4477	Oxidoreductase	uni	sce_4749	43.48	Oxidoreductase
SCE1572_4478	RNA polymerase sigma factor RpoE	uni	sce_6103	63.96	RNA polymerase sigma factor RpoE
SCE1572_4479	FIG01088605: hypothetical protein	uni	sce_4099	45.15	FIG01086011: hypothetical protein
SCE1572_4480	Flagellar hook-length control protein FliK	bi	sce_6105	41.32	Extensin-like protein precursor
SCE1572_4481	MEGF11 protein	uni	sce_3273	48.28	MEGF11 protein
SCE1572_4482	High-affinity branched-chain amino acid transport system permease protein LivH (TC 3.A.1.4.1)	uni	sce_9290	34.25	High-affinity branched-chain amino acid transport system permease protein LivH (TC 3.A.1.4.1)
SCE1572_4483	Branched-chain amino acid transport system permease protein LivM (TC 3.A.1.4.1)	uni	sce_9613	31.82	Branched-chain amino acid transport system permease protein LivM (TC 3.A.1.4.1)
SCE1572_4484	Branched-chain amino acid transport ATP-binding protein LivG (TC 3.A.1.4.1)	uni	sce_9614	42	Branched-chain amino acid transport ATP-binding protein LivG (TC 3.A.1.4.1)
SCE1572_4485	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.A.1.4.1)	uni	sce_9615	47.41	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.A.1.4.1)
SCE1572_4486	FIG01087458: hypothetical protein	bi	sce_7885	87.35	FIG01087458: hypothetical protein
SCE1572_4487	FIG01086607: hypothetical protein	bi	sce_3726	82.24	FIG01086607: hypothetical protein
SCE1572_4488	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_5146	73.9	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_4489	Similarity	bi	sce_3719	67.91	Similarity
SCE1572_4490	Pirin-like protein	bi	sce_7400	64.26	Pirin, N-terminal:Pirin, C-terminal
SCE1572_4491	DNA-binding response regulator, AraC family	bi	sce_6061	67.42	Transcriptional regulator, AraC family
SCE1572_4492	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_2920	37.4	short-chain dehydrogenase
SCE1572_4493	serine/threonine protein kinase	bi	sce_2657	66.97	serine/threonine protein kinase
SCE1572_4494	methyltransferase	uni	sce_7608	38.82	Methyltransferase type 11
SCE1572_4495	Similarity with glutathionylspermidine synthase (EC 6.3.1.8), group 2	bi	sce_3745	92.75	Similarity with glutathionylspermidine synthase (EC 6.3.1.8), group 2
SCE1572_4496	FIG01086440: hypothetical protein	bi	sce_3746	95.76	FIG01086440: hypothetical protein
SCE1572_4497	hypothetical protein	bi	sce_3747	84.39	FIG01089697: hypothetical protein
SCE1572_4498	hypothetical protein	bi	sce_3748	85.62	hypothetical protein
SCE1572_4499	hypothetical protein	bi	sce_3749	86.84	hypothetical protein
SCE1572_4500	FIG01085602: hypothetical protein	bi	sce_3763	84.47	FIG01085602: hypothetical protein
SCE1572_4501	Septum site-determining protein MinC	bi	sce_3764	92.17	Septum site-determining protein MinC
SCE1572_4502	hypothetical protein	-		0	
SCE1572_4503	conserved hypothetical protein SCD8A.23	uni	sce_10344	51.49	Invasin
SCE1572_4504	Dipeptide-binding ABC transporter, periplasmic substrate-binding component (TC 3.A.1.5.2)	bi	sce_3765	84.34	Dipeptide-binding ABC transporter, periplasmic substrate-binding component (TC 3.A.1.5.2)
SCE1572_4505	hypothetical protein	-		0	
SCE1572_4506	Kynurenine formamidase, bacterial (EC 3.5.1.9)	uni	sce_1451	32.98	Kynurenine formamidase, bacterial (EC 3.5.1.9)
SCE1572_4507	hypothetical protein	bi	sce_3766	93.46	hypothetical protein
SCE1572_4508	hypothetical protein	bi	sce_3767	50.68	hypothetical protein
SCE1572_4509	Uncharacterized domain COG3236 / GTP cyclohydrolase II (EC 3.5.4.25)	bi	sce_3769	93.1	Uncharacterized domain COG3236 / GTP cyclohydrolase II (EC 3.5.4.25)
SCE1572_4510	Xylose ABC transporter, substrate-binding component	uni	sce_7038	72.13	hypothetical protein
SCE1572_4511	peptidase, S1 (chymotrypsin) family(EC:3.4.21.-)	uni	sce_8300	32.17	Trypsin-2 precursor (EC 3.4.21.4)
SCE1572_4512	hypothetical protein	-		0	
SCE1572_4513	hypothetical protein	-		0	
SCE1572_4514	Septum site-determining protein MinD	bi	sce_3771	93.43	Septum site-determining protein MinD
SCE1572_4515	Cell division topological specificity factor MinE	bi	sce_3772	96.12	Cell division topological specificity factor MinE
SCE1572_4516	SWIM zinc finger domain protein	bi	sce_3773	82.24	SWIM Zn-finger
SCE1572_4517	Helicase, SNF2/RAD54 family	bi	sce_3774	85.33	Helicase, SNF2/RAD54 family
SCE1572_4518	hypothetical protein	uni	sce_1971	35	keratin associated protein
SCE1572_4519	Putative gluconolactonase(EC:3.1.1.17)	bi	sce_3778	86.44	Putative gluconolactonase(EC:3.1.1.17)
SCE1572_4520	Putative preQ0 transporter	bi	sce_8632	88.34	Putative preQ0 transporter
SCE1572_4521	L-asparaginase (EC 3.5.1.1)	bi	sce_3779	88.69	L-asparaginase (EC 3.5.1.1)
SCE1572_4522	Predicted metal-dependent hydrolase of the TIM-barrel fold	bi	sce_3780	95.52	Predicted metal-dependent hydrolase of the TIM-barrel fold
SCE1572_4523	tRNA-specific adenosine-34 deaminase (EC 3.5.4.-)	bi	sce_3782	86.09	tRNA-specific adenosine-34 deaminase (EC 3.5.4.-)
SCE1572_4524	Urea carboxylase-related ABC transporter, periplasmic substrate-binding protein	bi	sce_3783	78.22	Urea carboxylase-related ABC transporter, periplasmic substrate-binding protein
SCE1572_4525	Urea carboxylase-related ABC transporter, ATPase protein	bi	sce_3784	78.18	Urea carboxylase-related ABC transporter, ATPase protein
SCE1572_4526	Urea carboxylase-related ABC transporter, permease protein	bi	sce_3785	82.85	Urea carboxylase-related ABC transporter, permease protein
SCE1572_4527	RsbR, positive regulator of sigma-B	bi	sce_3787	75.24	RsbR, positive regulator of sigma-B
SCE1572_4528	hypothetical protein	-		0	
SCE1572_4529	periplasmic ATP/GTP-binding protein	bi	sce_3788	77.56	periplasmic ATP/GTP-binding protein
SCE1572_4530	Transcriptional regulator, AraC family	bi	sce_3789	87.2	transcriptional regulator, AraC family
SCE1572_4531	Beta-lactamase (EC 3.5.2.6)	uni	sce_5987	40.49	Beta-lactamase (EC 3.5.2.6)
SCE1572_4532	hypothetical protein	-		0	
SCE1572_4533	Pirin, N-terminal:Pirin, C-terminal	bi	sce_3790	90.08	Pirin, N-terminal:Pirin, C-terminal
SCE1572_4534	Arabinose efflux permease	bi	sce_3791	90.59	Arabinose efflux permease
SCE1572_4535	hypothetical protein	bi	sce_3792	82.91	FIG01088068: hypothetical protein
SCE1572_4536	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_9770	61.86	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_4537	hypothetical protein	uni	sce_3796	55.73	hypothetical protein
SCE1572_4538	putative lipoprotein	uni	sce_3794	54.32	Type IV fimbrial biogenesis protein PilY1
SCE1572_4539	hypothetical protein	uni	sce_3796	56	hypothetical protein
SCE1572_4540	WD-40 repeat protein	bi	sce_7069	78.06	WD-40 repeat protein
SCE1572_4541	Type IV fimbrial biogenesis protein PilY1	uni	sce_3794	51.02	Type IV fimbrial biogenesis protein PilY1
SCE1572_4542	hypothetical protein	-		0	
SCE1572_4543	Phenylalanyl-tRNA synthetase beta chain (EC 6.1.1.20)	bi	sce_3797	87.71	Phenylalanyl-tRNA synthetase beta chain (EC 6.1.1.20)
SCE1572_4544	Phenylalanyl-tRNA synthetase alpha chain (EC 6.1.1.20)	bi	sce_3798	97.71	Phenylalanyl-tRNA synthetase alpha chain (EC 6.1.1.20)
SCE1572_4545	TRAP-type C4-dicarboxylate transport system, periplasmic component	-		0	
SCE1572_4546	TRAP-type C4-dicarboxylate transport system, small permease component	-		0	
SCE1572_4547	TRAP-type C4-dicarboxylate transport system, large permease component	-		0	
SCE1572_4548	hypothetical protein	-		0	
SCE1572_4549	hypothetical protein	uni	sce_4778	40.86	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_4550	Hexuronate transporter	uni	sce_5778	43.4	Hexuronate transporter
SCE1572_4551	2-deoxy-D-gluconate 3-dehydrogenase (EC 1.1.1.125)	uni	sce_8328	42.68	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_4552	2-dehydro-3-deoxygluconate kinase (EC 2.7.1.45)	bi	sce_1380	92.54	2-dehydro-3-deoxygluconate kinase (EC 2.7.1.45)
SCE1572_4553	4-Hydroxy-2-oxoglutarate aldolase (EC 4.1.3.16) / 2-dehydro-3-deoxyphosphogluconate aldolase (EC 4.1.2.14)	bi	sce_1379	91.48	4-Hydroxy-2-oxoglutarate aldolase (EC 4.1.3.16) / 2-dehydro-3-deoxyphosphogluconate aldolase (EC 4.1.2.14)
SCE1572_4554	hypothetical protein	-		0	
SCE1572_4555	FIG00483917: hypothetical protein	-		0	
SCE1572_4556	Pectate lyase precursor (EC 4.2.2.2)	uni	sce_9562	47.01	Collagen triple helix repeat
SCE1572_4557	Endo-1,4-beta-glucanase	bi	sce_3799	86.26	Endo-1,4-beta-glucanase
SCE1572_4558	serine/threonine protein kinase	bi	sce_3801	77.22	protein kinase
SCE1572_4559	FIG01088311: hypothetical protein	bi	sce_3802	80.9	FIG01088311: hypothetical protein
SCE1572_4560	hypothetical protein	-		0	
SCE1572_4561	Transcriptional regulator BkdR of isoleucine and valine catabolism operon	-		0	
SCE1572_4562	Cobyrinic acid a,c-diamide synthase	uni	sce_3527	32.61	Chromosome (plasmid) partitioning protein ParA / Sporulation initiation inhibitor protein Soj
SCE1572_4563	hypothetical protein	bi	sce_3813	91.36	hypothetical protein
SCE1572_4564	hypothetical protein	bi	sce_3814	95.12	hypothetical protein
SCE1572_4565	Transcriptional regulator BkdR of isoleucine and valine catabolism operon	bi	sce_3816	94.33	Transcriptional regulator BkdR of isoleucine and valine catabolism operon
SCE1572_4566	hypothetical protein	bi	sce_3818	84.79	conserved hypothetical protein
SCE1572_4567	probable pectate lyase	bi	sce_3819	95.55	probable pectate lyase
SCE1572_4568	putative minor tail protein	bi	sce_3820	70.27	hypothetical protein
SCE1572_4569	Similarity	uni	sce_4514	30.31	CglB
SCE1572_4570	COG3866 Pectate lyase	uni	sce_4564	62.65	endo alpha-1,4 polygalactosaminidase precusor
SCE1572_4571	hypothetical protein	uni	sce_2821	49.23	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)
SCE1572_4572	two-component system sensor histidine kinase/response regulator, hybrid ('one component system')	uni	sce_9087	43.33	PAS/PAC sensor signal transduction histidine kinase
SCE1572_4573	Chemotaxis response regulator protein-glutamate methylesterase CheB (EC 3.1.1.61)	uni	sce_2986	38.17	Chemotaxis response regulator protein-glutamate methylesterase CheB (EC 3.1.1.61)
SCE1572_4574	Signal transduction histidine kinase CheA (EC 2.7.3.-)	uni	sce_2981	33.76	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_4575	methyl-accepting chemotaxis sensory transducer	uni	sce_2983	28.02	Methyl accepting chemotaxis protein
SCE1572_4576	conserved hypothetical protein	-		0	
SCE1572_4577	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_3523	35.98	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_4578	CheW protein	uni	sce_2982	31.13	Positive regulator of CheA protein activity (CheW)
SCE1572_4579	hypothetical protein	-		0	
SCE1572_4580	ABC transporter substrate-binding protein	bi	sce_3097	61.52	ABC transporter substrate-binding protein
SCE1572_4581	hypothetical protein	-		0	
SCE1572_4582	DNA topoisomerase III (EC 5.99.1.2)	bi	sce_3821	84.18	DNA topoisomerase III (EC 5.99.1.2)
SCE1572_4583	hypothetical protein	bi	sce_3822	95.24	hypothetical protein
SCE1572_4584	Gll0645 protein	bi	sce_3823	55.82	Gll0645 protein
SCE1572_4585	short-chain dehydrogenase/reductase SDR	bi	sce_3824	86.76	short-chain dehydrogenase/reductase SDR
SCE1572_4586	hypothetical protein	bi	sce_3825	71.8	hypothetical protein
SCE1572_4587	OmpA	bi	sce_3826	90.42	OmpA
SCE1572_4588	Transcriptional regulatory protein algP	bi	sce_3827	80.63	Possible CheA Signal Transduction Histidine Kinases (STHK)
SCE1572_4589	Peptidyl-prolyl cis-trans isomerase ppiD (EC 5.2.1.8)	bi	sce_3828	83.14	Peptidyl-prolyl cis-trans isomerase ppiD (EC 5.2.1.8)

SCE1572_4590	hypothetical protein	-		0	
SCE1572_4591	hypothetical protein	bi	sce_3829	72.56	Translation initiation factor 2
SCE1572_4592	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)	bi	sce_3830	87.71	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)
SCE1572_4593	Phosphate transport regulator (distant homolog of PhoU)	bi	sce_3831	87.32	Phosphate transport regulator (distant homolog of PhoU)
SCE1572_4594	Probable low-affinity inorganic phosphate transporter	bi	sce_3832	93.73	Probable low-affinity inorganic phosphate transporter
SCE1572_4595	hypothetical protein	uni	sce_2397	38.94	3-beta hydroxysteroid dehydrogenase/isomerase family protein in hypothetical gene cluster
SCE1572_4596	6-phosphofructokinase (EC 2.7.1.11)	bi	sce_3833	93.98	6-phosphofructokinase (EC 2.7.1.11)
SCE1572_4597	hypothetical protein	bi	sce_3834	52.94	hypothetical protein
SCE1572_4598	Phosphoenolpyruvate carboxylase (EC 4.1.1.31)	bi	sce_3835	94.19	Phosphoenolpyruvate carboxylase (EC 4.1.1.31)
SCE1572_4599	hypothetical protein	bi	sce_6186	47.06	hypothetical protein
SCE1572_4600	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	bi	sce_3837	84.74	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_4601	Transcriptional regulator, LysR family	uni	sce_9852	38.21	Transcriptional regulator, LysR family
SCE1572_4602	Deoxyuridine 5'-triphosphate nucleotidohydrolase (EC 3.6.1.23)	bi	sce_3838	92.67	Deoxyuridine 5'-triphosphate nucleotidohydrolase (EC 3.6.1.23)
SCE1572_4603	Miscellaneous; Hypothetical/Global homology	bi	sce_3839	88.29	hypothetical protein
SCE1572_4604	FIG01088557: hypothetical protein	bi	sce_3840	89.67	FIG01088557: hypothetical protein
SCE1572_4605	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)	bi	sce_3841	95.16	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)
SCE1572_4606	FIG00008365: hypothetical protein	bi	sce_3842	94.33	FIG00008365: hypothetical protein
SCE1572_4607	hypothetical protein	bi	sce_3843	79.87	hypothetical protein
SCE1572_4608	Uncharacterized protein conserved in bacteria, NMA0228-like	bi	sce_3844	90.11	Uncharacterized protein conserved in bacteria, NMA0228-like
SCE1572_4609	FIG01085170: hypothetical protein	bi	sce_3845	75.47	FIG01085170: hypothetical protein
SCE1572_4610	FIG01088029: hypothetical protein	bi	sce_3846	85.54	FIG01088029: hypothetical protein
SCE1572_4611	FIG01086529: hypothetical protein	bi	sce_3847	86.86	FIG01086529: hypothetical protein
SCE1572_4612	hypothetical protein	-		0	
SCE1572_4613	Permease of the drug/metabolite transporter (DMT) superfamily	uni	sce_10032	24.53	FIG01289198: hypothetical protein
SCE1572_4614	hypothetical protein	-		0	
SCE1572_4615	hypothetical protein	uni	sce_2361	28.72	FIG100068: Hypothetical protein
SCE1572_4616	hypothetical protein	-		0	
SCE1572_4617	hypothetical protein	-		0	
SCE1572_4618	FIG01087382: hypothetical protein	bi	sce_3850	91.19	FIG01087382: hypothetical protein
SCE1572_4619	hypothetical protein	-		0	
SCE1572_4620	hypothetical protein	-		0	
SCE1572_4621	putative fatty acid desaturase	uni	sce_4921	40.71	Beta-carotene hydroxylase
SCE1572_4622	hypothetical protein	uni	sce_5973	25.68	Beta-carotene hydroxylase
SCE1572_4623	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_3852	70.47	hypothetical protein
SCE1572_4624	Protein of unknown function DUF55	bi	sce_3853	92.91	Protein of unknown function DUF55
SCE1572_4625	hypothetical protein	bi	sce_3855	72.07	hypothetical protein
SCE1572_4626	alginate regulatory protein AlgP	bi	sce_3856	80.69	methyl-accepting chemotaxis sensory transducer
SCE1572_4627	hypothetical protein	bi	sce_3857	77.29	hypothetical protein
SCE1572_4628	hypothetical protein	uni	sce_3858	39.86	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_4629	Oligopeptide ABC transporter, periplasmic oligopeptide-binding protein OppA (TC 3.A.1.5.1)	bi	sce_3859	85.19	Oligopeptide ABC transporter, periplasmic oligopeptide-binding protein OppA (TC 3.A.1.5.1)
SCE1572_4630	VgrG protein	uni	sce_6341	48.97	VgrG protein
SCE1572_4631	hypothetical protein	uni	sce_6339	42.12	FIG01088856: hypothetical protein
SCE1572_4632	hypothetical protein	-		0	
SCE1572_4633	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_3860	95.27	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_4634	Oligopeptide ABC transporter, periplasmic oligopeptide-binding protein OppA (TC 3.A.1.5.1)	bi	sce_3861	86.12	Oligopeptide ABC transporter, periplasmic oligopeptide-binding protein OppA (TC 3.A.1.5.1)
SCE1572_4635	Uncharacterized domain COG3236 / GTP cyclohydrolase II (EC 3.5.4.25)	uni	sce_3769	58.74	Uncharacterized domain COG3236 / GTP cyclohydrolase II (EC 3.5.4.25)
SCE1572_4636	hypothetical protein	-		0	
SCE1572_4637	Alpha-glucosidase (EC 3.2.1.20)	bi	sce_3862	89.32	Alpha-glucosidase (EC 3.2.1.20)
SCE1572_4638	Transcriptional regulator, LysR family	bi	sce_3863	89.35	Transcriptional regulator, LysR family
SCE1572_4639	short-chain dehydrogenase/reductase SDR	bi	sce_3864	82.4	short-chain dehydrogenase/reductase SDR
SCE1572_4640	hypothetical protein	bi	sce_3865	71.7	hypothetical protein
SCE1572_4641	FIG01086874: hypothetical protein	uni	sce_1320	52.07	FIG01086874: hypothetical protein
SCE1572_4642	aldo/keto reductase	uni	sce_5289	36.75	Oxidoreductase
SCE1572_4643	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)	uni	sce_1410	36.25	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)
SCE1572_4644	Large exoproteins involved in heme utilization or adhesion	bi	sce_10174	50.67	Large exoproteins involved in heme utilization or adhesion
SCE1572_4645	Beta-glucosidase (EC 3.2.1.21)	bi	sce_3868	86.14	Beta-glucosidase (EC 3.2.1.21)
SCE1572_4646	Quinone oxidoreductase (EC 1.6.5.5)	bi	sce_3869	90.06	Quinone oxidoreductase (EC 1.6.5.5)
SCE1572_4647	hypothetical protein	-		0	
SCE1572_4648	Glutaredoxin-related protein	bi	sce_3870	88.43	Glutaredoxin-related protein
SCE1572_4649	PE-PGRS FAMILY PROTEIN	uni	sce_1320	40.76	FIG01086874: hypothetical protein
SCE1572_4650	Oligopeptide transport system permease protein OppB (TC 3.A.1.5.1)	bi	sce_3872	97.39	Oligopeptide transport system permease protein OppB (TC 3.A.1.5.1)
SCE1572_4651	Oligopeptide transport system permease protein OppC (TC 3.A.1.5.1)	bi	sce_3873	93.95	Oligopeptide transport system permease protein OppC (TC 3.A.1.5.1)
SCE1572_4652	Oligopeptide transport ATP-binding protein OppD (TC 3.A.1.5.1)	bi	sce_3874	96.74	Oligopeptide transport ATP-binding protein OppD (TC 3.A.1.5.1)
SCE1572_4653	Oligopeptide transport ATP-binding protein OppF (TC 3.A.1.5.1)	bi	sce_3875	95.86	Oligopeptide transport ATP-binding protein OppF (TC 3.A.1.5.1)
SCE1572_4654	FIG01086263: hypothetical protein	bi	sce_3876	56.25	FIG01086263: hypothetical protein
SCE1572_4655	FIG01088883: hypothetical protein	bi	sce_7308	94.79	hypothetical protein
SCE1572_4656	hypothetical protein	uni	sce_8901	60.38	putative secreted protein
SCE1572_4657	Cell division protein BolA	bi	sce_3877	84.38	Cell division protein BolA
SCE1572_4658	hypothetical protein	bi	sce_3878	92.22	hypothetical protein
SCE1572_4659	Transposase	uni	sce_4570	46.27	Mobile element protein
SCE1572_4660	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)	bi	sce_3881	87.68	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)
SCE1572_4661	FIG01085153: hypothetical protein	bi	sce_3882	70.55	FIG01085153: hypothetical protein
SCE1572_4662	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_3883	81.97	FIG01087003: hypothetical protein
SCE1572_4663	hypothetical protein	bi	sce_3884	68.29	hypothetical protein
SCE1572_4664	Lipase precursor (EC 3.1.1.3)	bi	sce_3885	86.14	lactonizing lipase
SCE1572_4665	lipase chaperone	bi	sce_3886	76.33	lipase chaperone
SCE1572_4666	hypothetical protein	bi	sce_3887	70.07	hypothetical protein
SCE1572_4667	hypothetical protein	-		0	
SCE1572_4668	FIG01087065: hypothetical protein	uni	sce_1478	88	FIG01087065: hypothetical protein
SCE1572_4669	hypothetical protein	uni	sce_2935	57.32	hypothetical protein
SCE1572_4670	EBNA-1	uni	sce_7871	49.42	FIG01124324: hypothetical protein
SCE1572_4671	hypothetical protein	-		0	
SCE1572_4672	hypothetical protein	-		0	
SCE1572_4673	Choline dehydrogenase (EC 1.1.99.1)	bi	sce_3906	91.95	Choline dehydrogenase (EC 1.1.99.1)
SCE1572_4674	FIG01088405: hypothetical protein	bi	sce_3907	87.62	FIG01088405: hypothetical protein
SCE1572_4675	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	bi	sce_3910	78.73	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_4676	hypothetical protein	-		0	
SCE1572_4677	hypothetical protein	bi	sce_1142	58.14	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_4678	hypothetical protein	-		0	
SCE1572_4679	polyphenol oxidase A	-		0	
SCE1572_4680	hypothetical protein	-		0	
SCE1572_4681	hypothetical protein	uni	sce_9109	31.76	hypothetical protein
SCE1572_4682	hypothetical protein	-		0	
SCE1572_4683	predicted protein	uni	sce_10081	32.48	Phosphatidylserine decarboxylase (EC 4.1.1.65)
SCE1572_4684	Nitrite reductase [NAD(P)H] large subunit (EC 1.7.1.4)	bi	sce_1283	86.34	Nitrite reductase [NAD(P)H] large subunit (EC 1.7.1.4)
SCE1572_4685	Assimilatory nitrate reductase large subunit (EC:1.7.99.4)	bi	sce_1282	89.09	Assimilatory nitrate reductase large subunit (EC:1.7.99.4)
SCE1572_4686	FIG01088161: hypothetical protein	bi	sce_8439	79.15	FIG01088161: hypothetical protein
SCE1572_4687	hypothetical protein	uni	sce_1502	77.51	FIG01085594: hypothetical protein
SCE1572_4688	hypothetical protein	-		0	
SCE1572_4689	FIG01088161: hypothetical protein	uni	sce_8439	65.02	FIG01088161: hypothetical protein
SCE1572_4690	hypothetical protein	uni	sce_312	41.36	hypothetical protein
SCE1572_4691	RNA polymerase, sigma-24 subunit, ECF subfamily	-		0	
SCE1572_4692	serine/threonine protein kinase	uni	sce_5043	45.17	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_4693	FIG00890145: hypothetical protein	bi	sce_1662	87.11	FIG00890145: hypothetical protein
SCE1572_4694	hypothetical protein	uni	sce_1486	40.26	VgrG protein
SCE1572_4695	hypothetical protein	-		0	
SCE1572_4696	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_7939	77.19	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_4697	hypothetical protein	bi	sce_5765	83.05	hypothetical protein
SCE1572_4698	hypothetical protein	bi	sce_9111	37.18	Mlr2351 protein
SCE1572_4699	Formamidopyrimidine-DNA glycosylase (EC 3.2.2.23)	bi	sce_3926	89.82	Formamidopyrimidine-DNA glycosylase (EC 3.2.2.23)
SCE1572_4700	hypothetical protein	bi	sce_3927	74.7	hypothetical protein
SCE1572_4701	hypothetical protein	uni	sce_5100	24.83	Type II secretory pathway, ATPase PulE/Tfp pilus assembly pathway, ATPase PilB
SCE1572_4702	TPR repeat	uni	sce_7657	32.93	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_4703	Putative transport protein	bi	sce_3929	87.97	Putative transport protein
SCE1572_4704	probable general stress protein 26	bi	sce_3930	84.09	probable general stress protein 26
SCE1572_4705	hypothetical protein	bi	sce_3931	85.29	hypothetical protein
SCE1572_4706	Primosomal protein N' (replication factor Y) - superfamily II helicase	bi	sce_3932	88.6	Primosomal protein N' (replication factor Y) - superfamily II helicase
SCE1572_4707	possible hydrolase	bi	sce_3933	83.76	alpha/beta hydrolase fold
SCE1572_4708	hypothetical protein	-		0	
SCE1572_4709	Von Willebrand factor type A domain protein	bi	sce_9357	79.25	Von Willebrand factor type A domain protein
SCE1572_4710	Cyclic beta-1,2-glucan synthase (EC 2.4.1.-)	bi	sce_3935	73.12	Cyclic beta-1,2-glucan synthase (EC 2.4.1.-)
SCE1572_4711	FIG01086361: hypothetical protein	bi	sce_8816	83.06	FIG01086361: hypothetical protein
SCE1572_4712	Rhs family carbohydrate-binding protein	bi	sce_8817	87.24	Rhs family carbohydrate-binding protein
SCE1572_4713	peptidase M14, carboxypeptidase A	uni	sce_3939	84.42	FIG01085109: hypothetical protein
SCE1572_4714	secreted protein	bi	sce_3940	88	putative secreted protein
SCE1572_4715	CobN component of cobalt chelatase involved in B12 biosynthesis	uni	sce_2882	41.55	Phage tail fiber protein
SCE1572_4716	FIG01089085: hypothetical protein	bi	sce_3941	75.18	FIG01089085: hypothetical protein
SCE1572_4717	hypothetical protein	bi	sce_3942	87.44	hypothetical protein
SCE1572_4718	hypothetical protein	bi	sce_3943	90.87	hypothetical protein
SCE1572_4719	ATP-dependent DNA ligase (EC 6.5.1.1) clustered with Ku protein, LigD	bi	sce_3945	84.2	ATP-dependent DNA ligase (EC 6.5.1.1) clustered with Ku protein, LigD
SCE1572_4720	FIG01087739: hypothetical protein	bi	sce_3946	82.84	FIG01087739: hypothetical protein
SCE1572_4721	Cysteine synthase (EC 2.5.1.47)	bi	sce_3947	90	Cysteine synthase (EC 2.5.1.47)
SCE1572_4722	Serine acetyltransferase (EC 2.3.1.30)	bi	sce_3948	91.54	Serine acetyltransferase (EC 2.3.1.30)
SCE1572_4723	SelT/selW/selH selenoprotein	bi	sce_3949	87.5	SelT/selW/selH selenoprotein
SCE1572_4724	Magnesium transporter	bi	sce_3950	90.53	Mg/Co/Ni transporter MgtE / CBS domain
SCE1572_4725	Putative beta-lactamase hcpC precursor (EC 3.5.2.6) (Cysteine-rich protein C)	bi	sce_3951	85.11	Putative beta-lactamase hcpC precursor (EC 3.5.2.6) (Cysteine-rich protein C)
SCE1572_4726	ATP-dependent DNA helicase UvrD/PcrA	bi	sce_3952	89.2	ATP-dependent DNA helicase UvrD/PcrA
SCE1572_4727	FIG01085998: hypothetical protein	bi	sce_6342	62.94	FIG01085998: hypothetical protein
SCE1572_4728	VgrG protein	bi	sce_6341	80.22	VgrG protein
SCE1572_4729	hypothetical protein	bi	sce_6340	65.25	FIG01087556: hypothetical protein
SCE1572_4730	FIG01088856: hypothetical protein	bi	sce_6339	80.61	FIG01088856: hypothetical protein
SCE1572_4731	Pentapeptide repeat family protein	bi	sce_6338	82.52	Pentapeptide repeat family protein
SCE1572_4732	hypothetical protein	bi	sce_6337	87.76	hypothetical protein
SCE1572_4733	hypothetical protein	bi	sce_6336	96.15	hypothetical protein
SCE1572_4734	FIG01087400: hypothetical protein	bi	sce_3954	81.75	FIG01087400: hypothetical protein
SCE1572_4735	ATP-dependent RNA helicase RhlE	bi	sce_3956	87.27	ATP-dependent RNA helicase RhlE
SCE1572_4736	Peptidase	bi	sce_3957	85.09	Peptidase
SCE1572_4737	2-hydroxy-6-oxo-6-phenylhexa-2,4-dienoate hydrolase (EC 3.7.1.-)	uni	sce_3912	40.2	Epoxide hydrolase (EC 3.3.2.9)
SCE1572_4738	conserved hypothetical protein	bi	sce_3958	84.96	conserved hypothetical protein
SCE1572_4739	Signal recognition particle, subunit Ffh SRP54 (TC 3.A.5.1.1)	uni	sce_8051	32.19	hypothetical protein
SCE1572_4740	Proton/glutamate symport protein @ Sodium/glutamate symport protein	bi	sce_3961	95.22	Proton/glutamate symport protein @ Sodium/glutamate symport protein
SCE1572_4741	FIG01088916: hypothetical protein	bi	sce_3962	86.52	FIG01088916: hypothetical protein
SCE1572_4742	hypothetical protein	bi	sce_3963	88.34	hypothetical protein
SCE1572_4743	Methionine aminopeptidase (EC 3.4.11.18)	bi	sce_3965	94.35	Methionine aminopeptidase (EC 3.4.11.18)
SCE1572_4744	LysR family transcriptional regulator YnfL	bi	sce_3966	92.38	LysR family transcriptional regulator YnfL
SCE1572_4745	ADP-ribosylglycohydrolase	bi	sce_3967	90.86	Inositol-phosphate phosphatase(EC:3.1.3.25)
SCE1572_4746	Putative Ferrodoxin	bi	sce_3968	79.47	Putative Ferrodoxin
SCE1572_4747	YD repeat	bi	sce_3969	91.8	hypothetical protein
SCE1572_4748	Mobile element protein	-		0	
SCE1572_4749	Rhs family carbohydrate-binding protein	bi	sce_3970	88.38	Rhs family carbohydrate-binding protein
SCE1572_4750	6-phosphogluconate dehydrogenase, decarboxylating (EC 1.1.1.44)	bi	sce_3971	92.75	6-phosphogluconate dehydrogenase, decarboxylating (EC 1.1.1.44)
SCE1572_4751	RsbR, positive regulator of sigma-B	bi	sce_3972	89.71	RsbR, positive regulator of sigma-B
SCE1572_4752	hypothetical protein	bi	sce_3974	97.26	hypothetical protein
SCE1572_4753	hypothetical protein	-		0	

SCE1572_4754	conserved hypothetical protein	uni	sce_7978	55.99	conserved hypothetical protein
SCE1572_4755	conserved hypothetical protein	uni	sce_605	50.43	hypothetical protein
SCE1572_4756	FIG01087953: hypothetical protein	uni	sce_6129	43.14	FIG01088173: hypothetical protein
SCE1572_4757	hypothetical protein	-		0	
SCE1572_4758	hypothetical protein	bi	sce_3976	75.48	TPR repeat
SCE1572_4759	FIG01087953: hypothetical protein	uni	sce_3977	71.74	hypothetical protein
SCE1572_4760	hypothetical protein	uni	sce_5449	40	FIG01088294: hypothetical protein
SCE1572_4761	hypothetical protein	-		0	
SCE1572_4762	Thrombospondin-1 precursor	bi	sce_3978	74.58	Thrombospondin-1 precursor
SCE1572_4763	RIBOSE TRANSPORT SYSTEM PERMEASE PROTEIN RBSC	bi	sce_3979	87.91	RIBOSE TRANSPORT SYSTEM PERMEASE PROTEIN RBSC
SCE1572_4764	Probable transmembrane abc transporter protein	bi	sce_3980	85.47	Probable transmembrane abc transporter protein
SCE1572_4765	sugar ABC transporter, ATP-binding protein	bi	sce_3981	83.55	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)
SCE1572_4766	bmp family protein	bi	sce_3982	84.76	bmp family protein
SCE1572_4767	Similarity	bi	sce_3983	73.24	Similarity
SCE1572_4768	Alcohol dehydrogenase, zinc-binding domain protein	uni	sce_6316	35.95	Bifunctional protein: zinc-containing alcohol dehydrogenase; quinone oxidoreductase (NADPH:quinone reductase) (EC 1.1.1.-); Sin
SCE1572_4769	COG4118: Antitoxin of toxin-antitoxin stability system	-		0	
SCE1572_4770	hypothetical protein	uni	sce_4893	31.03	FIG00501228: hypothetical protein
SCE1572_4771	metallophosphoesterase	bi	sce_3987	89.81	metallophosphoesterase
SCE1572_4772	hypothetical protein	bi	sce_3988	78.08	hypothetical protein
SCE1572_4773	probable oxidoreductase	bi	sce_7233	88.89	probable oxidoreductase
SCE1572_4774	Flagelliform silk protein	bi	sce_3989	49.3	(MTV044.05), len: 923. Unknown glycine richprotein, similar to other PGRS-type sequences e.g. gp|AL0091|MTV004_1M. tubercu
SCE1572_4775	hypothetical protein	-		0	
SCE1572_4776	serine/threonine protein kinase	bi	sce_3991	83.93	serine/threonine protein kinase
SCE1572_4777	S-layer-like array protein	bi	sce_3992	82.89	S-layer-like array protein
SCE1572_4778	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)	uni	sce_3993	79.31	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_4779	hypothetical protein	-		0	
SCE1572_4780	EBNA-1	bi	sce_3993	81.62	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_4781	FIG01089285: hypothetical protein	bi	sce_3995	61.69	FIG01089285: hypothetical protein
SCE1572_4782	RNA-binding protein, RRM domain	bi	sce_7494	62.93	FIG01087054: hypothetical protein
SCE1572_4783	Mobile element protein	uni	sce_299	94.61	Mobile element protein
SCE1572_4784	hypothetical protein	-		0	
SCE1572_4785	Outer membrane protein A-like protein	bi	sce_3999	87.21	Outer membrane protein A-like protein
SCE1572_4786	hypothetical protein	bi	sce_4000	90.91	FIG01088242: hypothetical protein
SCE1572_4787	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_4001	88.54	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_4788	hypothetical protein	bi	sce_4002	83	hypothetical protein
SCE1572_4789	conserved hypothetical protein; putative signal peptide	bi	sce_4004	89.27	hypothetical protein
SCE1572_4790	FIG01085814: hypothetical protein	bi	sce_4005	84.29	FIG01085814: hypothetical protein
SCE1572_4791	FIG01086775: hypothetical protein	bi	sce_4006	67.95	FIG01086775: hypothetical protein
SCE1572_4792	hypothetical protein	-		0	
SCE1572_4793	hypothetical protein	bi	sce_4007	86.88	hypothetical protein
SCE1572_4794	Acyl-CoA dehydrogenase (EC 1.3.99.3)	bi	sce_4008	94.51	Acyl-CoA dehydrogenase (EC 1.3.99.3)
SCE1572_4795	Transcription elongation factor GreB	bi	sce_4010	95.54	Transcription elongation factor GreB
SCE1572_4796	Lactoylglutathione lyase (EC 4.4.1.5)	bi	sce_4011	93.89	Lactoylglutathione lyase (EC 4.4.1.5)
SCE1572_4797	hypothetical protein	bi	sce_4012	92.46	FIG01089186: hypothetical protein
SCE1572_4798	YCII-like protein	bi	sce_4013	87.13	YCII-like protein
SCE1572_4799	Serine/threonine kinase associate protein KapC	bi	sce_4014	82.42	Serine/threonine kinase associate protein KapC
SCE1572_4800	hypothetical protein	bi	sce_4015	76.24	hypothetical protein
SCE1572_4801	Putative teichuronic acid biosynthesis glycosyl transferase TuaC	bi	sce_4016	85.96	Putative teichuronic acid biosynthesis glycosyl transferase TuaC
SCE1572_4802	FIG01086330: hypothetical protein	bi	sce_4017	83.85	FIG01086330: hypothetical protein
SCE1572_4803	Undecaprenyl-phosphate galactosephosphotransferase (EC 2.7.8.6)	bi	sce_4018	91.39	Undecaprenyl-phosphate galactosephosphotransferase (EC 2.7.8.6)
SCE1572_4804	Transglutaminase elicitor M81D	uni	sce_4444	61.94	Transglutaminase elicitor M81D
SCE1572_4805	PA14 domain protein	uni	sce_2702	44.27	PA14 domain protein
SCE1572_4806	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_1927	36.28	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_4807	Enzymatic protein of unknown function	bi	sce_4021	92.27	Enzymatic protein of unknown function
SCE1572_4808	FIG01085591: hypothetical protein	bi	sce_4022	88.38	FIG01085591: hypothetical protein
SCE1572_4809	Serine/threonine-protein kinase (EC 2.7.1.-)	bi	sce_4023	88.08	Serine/threonine-protein kinase (EC 2.7.1.-)
SCE1572_4810	hypothetical protein	-		0	
SCE1572_4811	OmpA/MotB domain protein	bi	sce_4025	67.3	OmpA/MotB
SCE1572_4812	acetyltransferase, GNAT family	bi	sce_4026	71.58	acetyltransferase, GNAT family
SCE1572_4813	PQQ enzyme repeat family protein	bi	sce_4027	91.99	PQQ enzyme repeat family protein
SCE1572_4814	TolA protein	bi	sce_4028	87.44	TolA protein
SCE1572_4815	Sulfatase	bi	sce_4029	92.09	Sulfatase
SCE1572_4816	hypothetical protein	bi	sce_4030	68.42	hypothetical protein
SCE1572_4817	Transcription elongation factor GreA	bi	sce_4031	99.34	Transcription elongation factor GreA
SCE1572_4818	hypothetical protein	bi	sce_4032	96.15	hypothetical protein
SCE1572_4819	Competence protein ComL precursor	bi	sce_4033	90.59	Competence protein ComL precursor
SCE1572_4820	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_4034	94.86	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_4821	Sensory box histidine kinase/response regulator	bi	sce_4035	84.45	Sensory box histidine kinase/response regulator
SCE1572_4822	hypothetical protein	-		0	
SCE1572_4823	Transaldolase (EC 2.2.1.2)	bi	sce_4036	93.98	Transaldolase (EC 2.2.1.2)
SCE1572_4824	O-antigen biosynthesis protein rfbC	bi	sce_4037	90.67	O-antigen biosynthesis protein rfbC
SCE1572_4825	hypothetical protein	bi	sce_4038	76.31	hypothetical protein
SCE1572_4826	hypothetical protein	bi	sce_4039	85.06	hypothetical protein
SCE1572_4827	FIG01085829: hypothetical protein	bi	sce_4040	72.63	FIG01085829: hypothetical protein
SCE1572_4828	hypothetical protein	bi	sce_4041	88.75	hypothetical protein
SCE1572_4829	hypothetical protein	bi	sce_4042	87	FIG01087124: hypothetical protein
SCE1572_4830	PE-PGRS FAMILY PROTEIN	bi	sce_4043	85.65	FIG01087036: hypothetical protein
SCE1572_4831	hypothetical protein	bi	sce_4045	89.6	hypothetical protein
SCE1572_4832	hypothetical protein	-		0	
SCE1572_4833	Hypothetical protein	bi	sce_4046	98.24	Hypothetical protein
SCE1572_4834	hypothetical protein	-		0	
SCE1572_4835	ATP-binding region, ATPase-like	bi	sce_4047	89.31	hypothetical protein
SCE1572_4836	Anti-sigma B factor RsbT / Phosphoserine phosphatase RsbX (EC 3.1.3.3)	bi	sce_4048	93.23	Anti-sigma B factor RsbT / Phosphoserine phosphatase RsbX (EC 3.1.3.3)
SCE1572_4837	anti-sigma B factor RsbT	bi	sce_4049	95.02	anti-sigma B factor RsbT
SCE1572_4838	RsbS, negative regulator of sigma-B	bi	sce_4050	97.84	RsbS, negative regulator of sigma-B
SCE1572_4839	RsbR, positive regulator of sigma-B	bi	sce_4051	85.3	RsbR, positive regulator of sigma-B
SCE1572_4840	Protein flbA	bi	sce_4052	96.94	Protein flbA
SCE1572_4841	Cold-shock DEAD-box protein A	bi	sce_4053	90.86	Cold-shock DEAD-box protein A
SCE1572_4842	FIG01085327: hypothetical protein	bi	sce_4054	92.18	FIG01085327: hypothetical protein
SCE1572_4843	FIG01089152: hypothetical protein	bi	sce_4055	83.47	FIG01089152: hypothetical protein
SCE1572_4844	hypothetical protein	bi	sce_4056	84.94	hypothetical protein
SCE1572_4845	outer membrane efflux protein	bi	sce_4057	72.88	efflux transporter, HAE1 family, outer membrane efflux protein
SCE1572_4846	Aldehyde dehydrogenase (EC 1.2.1.3), PaaZ	bi	sce_4058	93.03	Aldehyde dehydrogenase (EC 1.2.1.3), PaaZ
SCE1572_4847	Serine/threonine protein kinase PrkC, regulator of stationary phase	bi	sce_4059	82.85	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_4848	GTP-binding protein	bi	sce_4060	91.09	GTP-binding protein
SCE1572_4849	hypothetical protein	uni	sce_3628	27.01	ABC transport protein, ATP-binding subunit
SCE1572_4850	hypothetical protein	-		0	
SCE1572_4851	High-affnity carbon uptake protein Hat/HatR	bi	sce_4062	76.85	High-affnity carbon uptake protein Hat/HatR
SCE1572_4852	hypothetical protein	uni	sce_529	65.1	hypothetical protein
SCE1572_4853	conserved hypothetical protein	bi	sce_4064	82.08	hypothetical protein
SCE1572_4854	Transcriptional regulator, AraC family	bi	sce_4066	83.27	Transcriptional regulator, AraC family
SCE1572_4855	hypothetical protein	bi	sce_4067	88.82	hypothetical protein
SCE1572_4856	hypothetical protein	bi	sce_4069	86.32	hypothetical protein
SCE1572_4857	FIG01087953: hypothetical protein	bi	sce_3977	75.76	hypothetical protein
SCE1572_4858	WD domain, G-beta repeat protein	bi	sce_7974	46.15	High-affnity carbon uptake protein Hat/HatR
SCE1572_4859	hypothetical protein	bi	sce_4071	66.38	FIG01086827: hypothetical protein
SCE1572_4860	hypothetical protein	uni	sce_1975	31.85	TPR repeat:Sel1-like repeat:Sel1-like repeat
SCE1572_4861	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_4073	79.42	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_4862	hypothetical protein	bi	sce_4075	88.99	hypothetical protein
SCE1572_4863	FIG01089327: hypothetical protein	bi	sce_4077	96.31	FIG01089327: hypothetical protein
SCE1572_4864	FIG01087716: hypothetical protein	bi	sce_4078	77.46	putative serine/threonine protein kinase
SCE1572_4865	FIG01089354: hypothetical protein	uni	sce_6904	84.1	FIG01089354: hypothetical protein
SCE1572_4866	CDP-diacylglycerol--serine O-phosphatidyltransferase (EC 2.7.8.8)	bi	sce_4080	97.6	CDP-diacylglycerol--serine O-phosphatidyltransferase (EC 2.7.8.8)
SCE1572_4867	hypothetical protein	-		0	
SCE1572_4868	WD40-like repeat protein	bi	sce_4081	95.79	WD40-like repeat protein
SCE1572_4869	Rare lipoprotein A	bi	sce_4082	75.26	Rare lipoprotein A
SCE1572_4870	hypothetical protein	bi	sce_4083	84.15	hypothetical protein
SCE1572_4871	hypothetical protein	bi	sce_4084	88.95	hypothetical protein
SCE1572_4872	Membrane protein involved in colicin uptake-like protein	bi	sce_4086	85.61	Antifreeze glycopeptide AFGP polyprotein precursor
SCE1572_4873	hypothetical protein	bi	sce_4087	89.92	hypothetical protein
SCE1572_4874	FIG01086790: hypothetical protein	bi	sce_4088	96.51	FIG01086790: hypothetical protein
SCE1572_4875	Alpha/beta hydrolase fold (EC 3.8.1.5)	bi	sce_4089	96.2	Alpha/beta hydrolase fold (EC 3.8.1.5)
SCE1572_4876	Oligopeptide transport system permease protein OppC (TC 3.A.1.5.1)	bi	sce_4090	83.46	Oligopeptide transport system permease protein OppC (TC 3.A.1.5.1)
SCE1572_4877	Dipeptide transport system permease protein DppB (TC 3.A.1.5.2)	bi	sce_4091	86.29	Dipeptide transport system permease protein DppB (TC 3.A.1.5.2)
SCE1572_4878	OmpA/MotB domain protein	uni	sce_4092	65.75	response regulator
SCE1572_4879	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_4092	89.02	response regulator
SCE1572_4880	hypothetical protein	bi	sce_4094	94.8	hypothetical protein
SCE1572_4881	hypothetical protein	-		0	
SCE1572_4882	FIG01087877: hypothetical protein	bi	sce_4095	93.01	FIG01087877: hypothetical protein
SCE1572_4883	Nickel responsive regulator NikR	bi	sce_4096	89.29	Nickel responsive regulator NikR
SCE1572_4884	adventurous gliding motility protein AgmI	bi	sce_4097	91.64	hypothetical protein
SCE1572_4885	hypothetical protein	-		0	
SCE1572_4886	hypothetical protein	-		0	
SCE1572_4887	hypothetical protein	-		0	
SCE1572_4888	Kup system potassium uptake protein	uni	sce_1932	53.56	Kup system potassium uptake protein
SCE1572_4889	hypothetical protein	bi	sce_4102	83.19	hypothetical protein
SCE1572_4890	Transglutaminase-like domain	bi	sce_914	87.27	Transglutaminase-like domain
SCE1572_4891	hypothetical protein	-		0	
SCE1572_4892	Fatty acid desaturase (EC 1.14.19.1); Delta-9 fatty acid desaturase (EC 1.14.19.1)	uni	sce_6798	80.54	Fatty acid desaturase (EC 1.14.19.1); Delta-9 fatty acid desaturase (EC 1.14.19.1)
SCE1572_4893	Two-component sensor histidine kinase	uni	sce_6757	44	FIG01087941: hypothetical protein
SCE1572_4894	Carbonic anhydrase (EC 4.2.1.1)	uni	sce_5179	51.64	Carbonic anhydrase (EC 4.2.1.1)
SCE1572_4895	hypothetical protein	uni	sce_2477	40.51	hypothetical protein
SCE1572_4896	4-carboxymuconolactone decarboxylase (EC 4.1.1.44)	-		0	
SCE1572_4897	Phosphate transport regulator (distant homolog of PhoU)	uni	sce_3831	73.66	Phosphate transport regulator (distant homolog of PhoU)
SCE1572_4898	hypothetical protein	-		0	
SCE1572_4899	hypothetical protein	-		0	
SCE1572_4900	hypothetical protein	uni	sce_1995	52.94	serine/threonine protein kinase
SCE1572_4901	FIG01087767: hypothetical protein	bi	sce_4105	75.76	Chitodextrinase precursor (EC 3.2.1.14)
SCE1572_4902	Transcriptional regulator, DeoR family	bi	sce_4107	83.29	Transcriptional regulator, DeoR family
SCE1572_4903	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_4108	88.96	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_4904	hypothetical protein	uni	sce_5560	34.18	FIG01087606: hypothetical protein
SCE1572_4905	Transcriptional regulator, TetR family	uni	sce_6665	40.48	Transcriptional regulator, TetR family
SCE1572_4906	protein of unknown function DUF163	bi	sce_4116	93.79	LSU m3Psi1915 methyltransferase RlmH ## ybeA
SCE1572_4907	Iojap protein	bi	sce_4117	86.58	Iojap protein
SCE1572_4908	Gamma-glutamyl phosphate reductase (EC 1.2.1.41)	bi	sce_4118	92.49	Gamma-glutamyl phosphate reductase (EC 1.2.1.41)
SCE1572_4909	hypothetical protein	bi	sce_4119	70.08	hypothetical protein
SCE1572_4910	hypothetical protein	bi	sce_4120	75	hypothetical protein
SCE1572_4911	GMP synthase [glutamine-hydrolyzing], amidotransferase subunit (EC 6.3.5.2) / GMP synthase [glutamine-hydrolyzing], ATP	bi	sce_4121	96.92	GMP synthase [glutamine-hydrolyzing], amidotransferase subunit (EC 6.3.5.2) / GMP synthase [glutamine-hydrolyzing], ATP pyrop
SCE1572_4912	FIG01085182: hypothetical protein	bi	sce_4122	85.05	FIG01085182: hypothetical protein
SCE1572_4913	hypothetical protein	bi	sce_4123	82.31	hypothetical protein
SCE1572_4914	hypothetical protein	bi	sce_4124	79.03	hypothetical protein
SCE1572_4915	hypothetical protein	bi	sce_4126	84.91	hypothetical protein
SCE1572_4916	serine/threonine protein kinase	bi	sce_4127	84.97	serine/threonine protein kinase
SCE1572_4917	FIG01085782: hypothetical protein	bi	sce_4128	82.33	FIG01085782: hypothetical protein

SCE1572_4918	2-keto-3-deoxy-D-arabino-heptulosonate-7-phosphate synthase II (EC 2.5.1.54)	bi	sce_4129	91.74	2-keto-3-deoxy-D-arabino-heptulosonate-7-phosphate synthase II (EC 2.5.1.54)
SCE1572_4919	FIG01087720: hypothetical protein	bi	sce_4130	69.57	FIG01087720: hypothetical protein
SCE1572_4920	FIG01088212: hypothetical protein	bi	sce_4131	91.34	FIG01088212: hypothetical protein
SCE1572_4921	RNA-2';,3';-PO4:RNA-5';-OH ligase	bi	sce_4132	90.43	RNA-2';,3';-PO4:RNA-5';-OH ligase
SCE1572_4922	hypothetical protein	bi	sce_4134	89.86	hypothetical protein
SCE1572_4923	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_4135	96.24	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_4924	Glutathione S-transferase (EC 2.5.1.18)	bi	sce_4136	88.79	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_4925	FIG00925933: hypothetical protein	bi	sce_4137	86.16	FIG00925933: hypothetical protein
SCE1572_4926	Permease of the drug/metabolite transporter (DMT) superfamily	bi	sce_4138	88.46	Permease of the drug/metabolite transporter (DMT) superfamily
SCE1572_4927	hypothetical protein	-		0	
SCE1572_4928	hypothetical protein	bi	sce_4139	62	hypothetical protein
SCE1572_4929	protein of unknown function DUF140	bi	sce_4140	97.63	ABC transporter, permease
SCE1572_4930	hypothetical protein	bi	sce_4141	93.68	hypothetical protein
SCE1572_4931	ABC transporter, ATP-binding protein	bi	sce_4142	96.54	ABC-type organic solvent resistance transport system ATP-binding protein
SCE1572_4932	FIG01087177: hypothetical protein	bi	sce_4143	93.53	FIG01087177: hypothetical protein
SCE1572_4933	Biotin carboxyl carrier protein of methylcrotonyl-CoA carboxylase	bi	sce_4144	94.37	Biotin carboxyl carrier protein of methylcrotonyl-CoA carboxylase
SCE1572_4934	COG1565: Uncharacterized conserved protein	bi	sce_4145	85	COG1565: Uncharacterized conserved protein
SCE1572_4935	Orotidine 5';-phosphate decarboxylase (EC 4.1.1.23)	bi	sce_4146	87.64	Orotidine 5';-phosphate decarboxylase (EC 4.1.1.23)
SCE1572_4936	TrmH family tRNA/rRNA methyltransferase YacO (EC 2.1.1.-)	bi	sce_4147	96.77	TrmH family tRNA/rRNA methyltransferase YacO (EC 2.1.1.-)
SCE1572_4937	Cysteine desulfurase (EC 2.8.1.7)	bi	sce_4149	87.81	Cysteine desulfurase (EC 2.8.1.7)
SCE1572_4938	hypothetical protein	-		0	
SCE1572_4939	Apolipoprotein N-acyltransferase (EC 2.3.1.-) / Copper homeostasis protein CutE	bi	sce_4152	88.2	Apolipoprotein N-acyltransferase (EC 2.3.1.-) / Copper homeostasis protein CutE
SCE1572_4940	hypothetical protein	bi	sce_4154	97.69	hypothetical protein
SCE1572_4941	hypothetical protein	bi	sce_4155	84.04	hypothetical protein
SCE1572_4942	Dephospho-CoA kinase (EC 2.7.1.24)	bi	sce_4156	87.86	Dephospho-CoA kinase (EC 2.7.1.24)
SCE1572_4943	diguanylate cyclase/phosphodiesterase (GGDEF & EAL domains) with PAS/PAC sensor(s)	bi	sce_4157	93.28	diguanylate cyclase/phosphodiesterase (GGDEF & EAL domains) with PAS/PAC sensor(s)
SCE1572_4944	Nicotinamidase (EC 3.5.1.19)	bi	sce_4158	90.22	Nicotinamidase (EC 3.5.1.19)
SCE1572_4945	Nicotinate phosphoribosyltransferase (EC 2.4.2.11)	bi	sce_4159	89.3	Nicotinate phosphoribosyltransferase (EC 2.4.2.11)
SCE1572_4946	hypothetical protein	-		0	
SCE1572_4947	Methylenetetrahydrofolate dehydrogenase (NADP) (EC 1.5.1.5) / Methenyltetrahydrofolate cyclohydrolase (EC 3.5.4.9)	bi	sce_4161	87.11	Methylenetetrahydrofolate dehydrogenase (NADP) (EC 1.5.1.5) / Methenyltetrahydrofolate cyclohydrolase (EC 3.5.4.9)
SCE1572_4948	putative esterase	uni	sce_1755	26.56	putative alpha-dextrin endo-1, 6-alpha-glucosidase
SCE1572_4949	SAM-dependent methyltransferases	bi	sce_4162	82.64	SAM-dependent methyltransferases
SCE1572_4950	hypothetical protein	bi	sce_4899	49.14	hypothetical protein
SCE1572_4951	putative ABC transporter ATP-binding protein	bi	sce_4163	78.77	branched-chain amino acid transport ATP-binding protein livG
SCE1572_4952	Membrane glycoprotein	bi	sce_4164	76.92	Membrane protein involved in colicin uptake-like protein
SCE1572_4953	peptidase S8 and S53, subtilisin, kexin, sedolisin	uni	sce_1234	42.94	NADH-ubiquinone oxidoreductase chain J (EC 1.6.5.3)
SCE1572_4954	hypothetical protein	-		0	
SCE1572_4955	Conserved domain protein	bi	sce_4165	86.29	Conserved domain protein
SCE1572_4956	Phytoene dehydrogenase (EC 1.14.99.-)	bi	sce_4166	93.28	Phytoene dehydrogenase (EC 1.14.99.-)
SCE1572_4957	EBNA-1	uni	sce_7119	55.56	hypothetical protein
SCE1572_4958	Mannose-1-phosphate guanylyltransferase (EC 2.7.7.13)	bi	sce_4167	87.09	Mannose-1-phosphate guanylyltransferase (EC 2.7.7.13)
SCE1572_4959	hypothetical protein	-		0	
SCE1572_4960	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)	bi	sce_4168	83.65	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)
SCE1572_4961	EBNA-1	uni	sce_1376	57.95	Gll0995 protein
SCE1572_4962	FIG01085474: hypothetical protein	bi	sce_4173	61.93	FIG01085474: hypothetical protein
SCE1572_4963	DNA gyrase subunit A (EC 5.99.1.3)	bi	sce_4174	97.82	DNA gyrase subunit A (EC 5.99.1.3)
SCE1572_4964	Cation transport protein chaC	bi	sce_4175	81.48	Cation transport regulator-like protein
SCE1572_4965	WD-40 repeat protein	uni	sce_7069	69.81	WD-40 repeat protein
SCE1572_4966	hypothetical protein	-		0	
SCE1572_4967	putative membrane protein	bi	sce_4176	84.71	putative membrane protein
SCE1572_4968	Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)	bi	sce_4177	91.98	Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_4969	hypothetical protein	bi	sce_4178	70.09	hypothetical protein
SCE1572_4970	hypothetical protein	bi	sce_4179	53.15	hypothetical protein
SCE1572_4971	hypothetical protein	-		0	
SCE1572_4972	hypothetical protein	bi	sce_4181	82.67	hypothetical protein
SCE1572_4973	Acetolactate synthase large subunit (EC 2.2.1.6)	bi	sce_4182	94.55	Acetolactate synthase large subunit (EC 2.2.1.6)
SCE1572_4974	Acetolactate synthase small subunit (EC 2.2.1.6)	bi	sce_4183	92.86	Acetolactate synthase small subunit (EC 2.2.1.6)
SCE1572_4975	Ketol-acid reductoisomerase (EC 1.1.1.86)	bi	sce_4184	96.74	Ketol-acid reductoisomerase (EC 1.1.1.86)
SCE1572_4976	2-isopropylmalate synthase (EC 2.3.3.13)	bi	sce_4185	97	2-isopropylmalate synthase (EC 2.3.3.13)
SCE1572_4977	(R)-citramalate synthase (EC 2.3.1.182)	bi	sce_4186	94.16	(R)-citramalate synthase (EC 2.3.1.182)
SCE1572_4978	3-isopropylmalate dehydrogenase (EC 1.1.1.85)	bi	sce_4187	96.32	3-isopropylmalate dehydrogenase (EC 1.1.1.85)
SCE1572_4979	hypothetical protein	-		0	
SCE1572_4980	RsbR, positive regulator of sigma-B	uni	sce_5835	40.96	putative PAS/PAC sensor protein
SCE1572_4981	hypothetical protein	-		0	
SCE1572_4982	hypothetical glycine-rich protein	bi	sce_4188	55.29	Glycine-rich protein GRP22-like
SCE1572_4983	Nitrate/nitrite transporter	uni	sce_3009	24.22	Nitrate/nitrite transporter
SCE1572_4984	serine/threonine protein kinase	bi	sce_4189	89.66	serine/threonine protein kinase
SCE1572_4985	hypothetical protein	-		0	
SCE1572_4986	tRNA dihydrouridine synthase B (EC 1.-.-.-)	bi	sce_4190	95.07	tRNA dihydrouridine synthase B (EC 1.-.-.-)
SCE1572_4987	HAD superfamily (Subfamily IG) hydrolase, 5';-nucleotidase	bi	sce_4191	95.41	HAD superfamily (Subfamily IG) hydrolase, 5';-nucleotidase
SCE1572_4988	RsbS, negative regulator of sigma-B	bi	sce_4192	90.96	RsbS, negative regulator of sigma-B
SCE1572_4989	Phosphoserine phosphatase RsbX (EC 3.1.3.3)	bi	sce_4193	89.89	Phosphoserine phosphatase RsbX (EC 3.1.3.3)
SCE1572_4990	anti-sigma B factor RsbT	bi	sce_4194	95.22	anti-sigma B factor RsbT
SCE1572_4991	hypothetical protein	bi	sce_4195	63.26	5';-nucleotidase(EC:3.1.3.5)
SCE1572_4992	hypothetical protein	bi	sce_4196	84.44	hypothetical protein
SCE1572_4993	Mannose-1-phosphate guanyltransferase	bi	sce_4197	87.1	Mannose-1-phosphate guanyltransferase
SCE1572_4994	D,D-heptose 7-phosphate kinase	bi	sce_4198	96.07	D,D-heptose 7-phosphate kinase
SCE1572_4995	Phosphoheptose isomerase (EC 5.3.1.-)	bi	sce_4199	96.12	Phosphoheptose isomerase (EC 5.3.1.-)
SCE1572_4996	D-glycero-D-manno-heptose 1,7-bisphosphate phosphatase (EC 3.1.1.-)	bi	sce_4200	92.61	D-glycero-D-manno-heptose 1,7-bisphosphate phosphatase (EC 3.1.1.-)
SCE1572_4997	hypothetical protein	uni	sce_9244	28.69	Two-component response regulator
SCE1572_4998	FIG00901899: hypothetical protein	bi	sce_4201	93.69	FIG00901899: hypothetical protein
SCE1572_4999	DNA polymerase III alpha subunit (EC 2.7.7.7)	bi	sce_4202	95.13	DNA polymerase III alpha subunit (EC 2.7.7.7)
SCE1572_5000	hypothetical protein	-		0	
SCE1572_5001	FIG01088773: hypothetical protein	bi	sce_4203	81.34	FIG01088773: hypothetical protein
SCE1572_5002	Putative outer membrane lipoprotein	bi	sce_4204	88.04	Putative outer membrane lipoprotein
SCE1572_5003	FIG01086127: hypothetical protein	bi	sce_4205	80.82	FIG01086127: hypothetical protein
SCE1572_5004	hypothetical protein	bi	sce_4206	76.35	hypothetical protein
SCE1572_5005	hypothetical protein	bi	sce_4207	98.31	hypothetical protein
SCE1572_5006	hypothetical protein	bi	sce_4208	97.8	hypothetical protein
SCE1572_5007	Cyclic AMP receptor protein	bi	sce_4209	98.42	Cyclic AMP receptor protein
SCE1572_5008	FIG01088052: hypothetical protein	bi	sce_4210	93.53	FIG01088052: hypothetical protein
SCE1572_5009	FIG01088898: hypothetical protein	bi	sce_4211	98.2	FIG01088898: hypothetical protein
SCE1572_5010	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_4212	93.1	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_5011	Protein YicC	bi	sce_4213	96.92	Protein YicC
SCE1572_5012	Guanylate kinase (EC 2.7.4.8)	bi	sce_4214	99.53	Guanylate kinase (EC 2.7.4.8)
SCE1572_5013	5';-methylthioadenosine phosphorylase (EC 2.4.2.28)	bi	sce_4215	89.15	5';-methylthioadenosine phosphorylase (EC 2.4.2.28)
SCE1572_5014	Ribokinase (EC 2.7.1.15)	bi	sce_4216	94.81	Ribokinase (EC 2.7.1.15)
SCE1572_5015	hypothetical protein	bi	sce_4217	94.01	hypothetical protein
SCE1572_5016	Serine/threonine-protein kinase (EC 2.7.1.-)	bi	sce_4218	77.26	Serine/threonine-protein kinase (EC 2.7.1.-)
SCE1572_5017	hypothetical protein	bi	sce_4219	83.64	WW domain binding protein 11
SCE1572_5018	Prolyl-tRNA synthetase (EC 6.1.1.15), archaeal/eukaryal type	bi	sce_4220	95.95	Prolyl-tRNA synthetase (EC 6.1.1.15), archaeal/eukaryal type
SCE1572_5019	Isoaspartyl aminopeptidase (EC 3.4.19.5) @ Asp-X dipeptidase	bi	sce_4221	87.92	Isoaspartyl aminopeptidase (EC 3.4.19.5) @ Asp-X dipeptidase
SCE1572_5020	Phytoene dehydrogenase and related proteins	bi	sce_4222	91.33	Phytoene dehydrogenase and related proteins
SCE1572_5021	sigma-54 dependent transcriptional regulator	bi	sce_4223	86.37	sigma-54 dependent transcriptional regulator
SCE1572_5022	hypothetical protein	bi	sce_4225	88.42	hypothetical protein
SCE1572_5023	hypothetical protein	-		0	
SCE1572_5024	FIG01086339: hypothetical protein	bi	sce_4226	83.27	COG3511: Phospholipase C
SCE1572_5025	Proposed peptidoglycan lipid II flippase MurJ	bi	sce_4227	90.74	Proposed peptidoglycan lipid II flippase MurJ
SCE1572_5026	FIG01087105: hypothetical protein	bi	sce_4228	85.86	FIG01087105: hypothetical protein
SCE1572_5027	Sll0670 protein	bi	sce_4229	85.49	Sll0670 protein
SCE1572_5028	FIG01088567: hypothetical protein	bi	sce_4230	83.48	FIG01088567: hypothetical protein
SCE1572_5029	Putative deoxyribonuclease YcfH	bi	sce_4231	95.79	Putative deoxyribonuclease YcfH
SCE1572_5030	putative serine protein kinase, PrkA	bi	sce_4232	97.09	putative serine protein kinase, PrkA
SCE1572_5031	hypothetical protein	bi	sce_4233	88.05	hypothetical protein
SCE1572_5032	serine/threonine protein kinase	bi	sce_4234	86.54	serine/threonine protein kinase
SCE1572_5033	FIG137478: Hypothetical protein	bi	sce_4235	93.23	FIG137478: Hypothetical protein
SCE1572_5034	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	bi	sce_4236	91.19	putative serine/threonine protein kinase
SCE1572_5035	Sulfatase-modifying factor 2 precursor (C-alpha-formyglycine-generating enzyme 2)	bi	sce_4237	83.38	Butyryl-CoA dehydrogenase (EC 1.3.99.2)
SCE1572_5036	hypothetical protein	-		0	
SCE1572_5037	Excinuclease ABC subunit A	bi	sce_4238	96.49	Excinuclease ABC subunit A
SCE1572_5038	C4-type zinc finger protein, DksA/TraR family	bi	sce_4239	96.67	C4-type zinc finger protein, DksA/TraR family
SCE1572_5039	hypothetical protein	-		0	
SCE1572_5040	Bll5330 protein	bi	sce_4240	87.88	Bll5330 protein
SCE1572_5041	FIG01088310: hypothetical protein	bi	sce_4241	97.95	FIG01088310: hypothetical protein
SCE1572_5042	N-acetylmuramoyl-L-alanine amidase (EC 3.5.1.28)	bi	sce_4242	88.61	N-acetylmuramoyl-L-alanine amidase (EC 3.5.1.28)
SCE1572_5043	hypothetical protein	bi	sce_4243	92.75	hypothetical protein
SCE1572_5044	hypothetical protein	bi	sce_4244	57.14	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_5045	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_4245	75.78	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_5046	hypothetical protein	-		0	
SCE1572_5047	hypothetical protein	bi	sce_6904	86.22	FIG01089354: hypothetical protein
SCE1572_5048	DNA repair protein RadC	uni	sce_512	81.25	DNA repair protein RadC
SCE1572_5049	hypothetical protein	uni	sce_513	78.34	FIG01087636: hypothetical protein
SCE1572_5050	Transcriptional regulator Cro/CI family	uni	sce_514	52.44	hypothetical protein
SCE1572_5051	FIG01087953: hypothetical protein	uni	sce_6129	33.56	FIG01088173: hypothetical protein
SCE1572_5052	FIG01087372: hypothetical protein	uni	sce_522	92.2	FIG01087372: hypothetical protein
SCE1572_5053	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)	uni	sce_3991	56.25	serine/threonine protein kinase
SCE1572_5054	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)	uni	sce_8864	35.53	serine/threonine protein kinase
SCE1572_5055	S-layer protein	uni	sce_3992	41.99	S-layer-like array protein
SCE1572_5056	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)	uni	sce_7667	51.6	FIG01085006: hypothetical protein
SCE1572_5057	Deoxyhypusine synthase	bi	sce_7841	95.65	Deoxyhypusine synthase
SCE1572_5058	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_4246	81.74	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_5059	hypothetical protein	bi	sce_4247	77.49	hypothetical protein
SCE1572_5060	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_4248	82.31	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_5061	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor (EC 5.2.1.8)	bi	sce_4250	93.58	probable FkbP-type peptidyl-prolyl cis-trans isomerase(EC:5.2.1.8)
SCE1572_5062	hypothetical protein	bi	sce_4251	93.1	hypothetical protein
SCE1572_5063	hypothetical protein	bi	sce_4252	71.73	hypothetical protein
SCE1572_5064	hypothetical protein	bi	sce_4253	87.75	FIG01085462: hypothetical protein
SCE1572_5065	serine/threonine protein kinase	bi	sce_4254	80.24	serine/threonine protein kinase
SCE1572_5066	Pyruvate dehydrogenase E1 component alpha subunit (EC 1.2.4.1)	bi	sce_4255	95.69	Pyruvate dehydrogenase E1 component alpha subunit (EC 1.2.4.1)
SCE1572_5067	Pyruvate dehydrogenase E1 component beta subunit (EC 1.2.4.1)	bi	sce_4256	96.18	Pyruvate dehydrogenase E1 component beta subunit (EC 1.2.4.1)
SCE1572_5068	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_4257	91.67	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_5069	FIG01089217: hypothetical protein	bi	sce_4258	94.82	FIG01089217: hypothetical protein
SCE1572_5070	Putative ATP/GTP-binding protein	bi	sce_4259	91.22	Putative ATP/GTP-binding protein
SCE1572_5071	ATPase involved in DNA repair	bi	sce_4260	89.7	ATPase involved in DNA repair
SCE1572_5072	Sulfatase modifying factor 1 precursor (C-alpha-formyglycine- generating enzyme 1)	bi	sce_4261	88.25	Sulfatase modifying factor 1 precursor (C-alpha-formyglycine- generating enzyme 1)
SCE1572_5073	Metallophosphoesterase	bi	sce_4262	89.49	Metallophosphoesterase
SCE1572_5074	Cold shock protein CspG	bi	sce_4263	100	Cold shock protein CspG
SCE1572_5075	PE-PGRS family protein	uni	sce_3858	34.96	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_5076	Type II/IV secretion system ATP hydrolase TadA/VirB11/CpaF, TadA subfamily	bi	sce_4265	86.66	Type II/IV secretion system ATP hydrolase TadA/VirB11/CpaF, TadA subfamily
SCE1572_5077	Peptide deformylase (EC 3.5.1.88)	bi	sce_4266	94.05	Peptide deformylase (EC 3.5.1.88)
SCE1572_5078	Diaminohydroxyphosphoribosylaminopyrimidine deaminase (EC 3.5.4.26) / 5-amino-6-(5-phosphoribosylamino)uracil reducta	bi	sce_4267	95.54	Diaminohydroxyphosphoribosylaminopyrimidine deaminase (EC 3.5.4.26) / 5-amino-6-(5-phosphoribosylamino)uracil reductase (E
SCE1572_5079	Ribonucleotide reductase transcriptional regulator NrdR	bi	sce_4268	98.04	Ribonucleotide reductase transcriptional regulator NrdR
SCE1572_5080	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)	bi	sce_4269	96.14	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)
SCE1572_5081	Acyl carrier protein	bi	sce_4270	98.77	Acyl carrier protein

SCE1572_5082	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_4271	95.16	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_5083	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	bi	sce_4272	92.26	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_5084	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)	bi	sce_4273	91.54	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)
SCE1572_5085	hypothetical protein	-		0	
SCE1572_5086	LSU ribosomal protein L32p	bi	sce_4274	98.44	LSU ribosomal protein L32p
SCE1572_5087	COG1399 protein in cluster with ribosomal protein L32p, putative divergent	bi	sce_4275	88.57	COG1399 protein in cluster with ribosomal protein L32p, putative divergent
SCE1572_5088	hypothetical protein	bi	sce_4276	90.09	hypothetical protein
SCE1572_5089	Uracil phosphoribosyltransferase (EC 2.4.2.9) / Pyrimidine operon regulatory protein PyrR	bi	sce_4277	96.26	Uracil phosphoribosyltransferase (EC 2.4.2.9) / Pyrimidine operon regulatory protein PyrR
SCE1572_5090	Aspartate carbamoyltransferase (EC 2.1.3.2)	bi	sce_4278	97.19	Aspartate carbamoyltransferase (EC 2.1.3.2)
SCE1572_5091	NAD synthetase (EC 6.3.1.5)	bi	sce_4279	95.37	NAD synthetase (EC 6.3.1.5)
SCE1572_5092	hypothetical protein	-		0	
SCE1572_5093	Acyl carrier protein	bi	sce_4280	96.51	conserved hypothetical protein
SCE1572_5094	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_4281	94.52	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_5095	Asparagine synthetase [glutamine-hydrolyzing] (EC 6.3.5.4)	bi	sce_4282	95.24	Asparagine synthetase [glutamine-hydrolyzing] (EC 6.3.5.4)
SCE1572_5096	FIG01088601: hypothetical protein	uni	sce_4283	64.95	FIG01085391: hypothetical protein
SCE1572_5097	FIG01086664: hypothetical protein	bi	sce_4284	84.8	FIG01086664: hypothetical protein
SCE1572_5098	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)	bi	sce_4285	79.48	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)
SCE1572_5099	TPR domain protein, putative component of TonB system	bi	sce_4286	84.02	TPR domain protein, putative component of TonB system
SCE1572_5100	hypothetical protein	bi	sce_4287	67.6	hypothetical protein
SCE1572_5101	FIG01086678: hypothetical protein	bi	sce_4288	77.25	FIG01086678: hypothetical protein
SCE1572_5102	putative zinc protease	bi	sce_4289	93.61	FIG015287: Zinc protease
SCE1572_5103	Protease precursor	bi	sce_4290	92.5	Protease precursor
SCE1572_5104	Possible N-terminal part of IF-2	bi	sce_4291	86.51	Possible N-terminal part of IF-2
SCE1572_5105	Translation elongation factor LepA	bi	sce_4292	97.17	Translation elongation factor LepA
SCE1572_5106	hypothetical protein	bi	sce_4293	95.65	hypothetical protein
SCE1572_5107	putative lipoprotein	bi	sce_4294	76.07	putative lipoprotein
SCE1572_5108	conserved hypothetical protein	bi	sce_4295	88.76	putative lipoprotein
SCE1572_5109	hypothetical protein	uni	sce_3287	35.34	GTP-binding protein EngA
SCE1572_5110	Putative 2-component regulator	bi	sce_4297	98.56	Putative 2-component regulator
SCE1572_5111	anaerobic nitric oxide reductase transcription regulator NorR	bi	sce_4298	97.57	anaerobic nitric oxide reductase transcription regulator NorR
SCE1572_5112	UPF0103 protein TTHA0924	bi	sce_4299	89.74	UPF0103 protein TTHA0924
SCE1572_5113	hypothetical protein	bi	sce_4300	85.96	Dor1
SCE1572_5114	GTP pyrophosphokinase (EC 2.7.6.5) / Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase (EC 3.1.7.	bi	sce_4301	97.79	GTP pyrophosphokinase (EC 2.7.6.5) / Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase (EC 3.1.7.2)
SCE1572_5115	Hypothetical radical SAM family enzyme, NOT coproporphyrinogen III oxidase, oxygen-independent	bi	sce_4303	89.81	Hypothetical radical SAM family enzyme, NOT coproporphyrinogen III oxidase, oxygen-independent
SCE1572_5116	Threonine dehydratase, catabolic (EC 4.3.1.19)	bi	sce_4304	86.54	Threonine dehydratase, catabolic (EC 4.3.1.19)
SCE1572_5117	5-aminopentanamidase (EC 3.5.1.30)	bi	sce_4305	82.06	5-aminopentanamidase (EC 3.5.1.30)
SCE1572_5118	Response regulator receiver domain protein	bi	sce_4306	94.96	Response regulator receiver domain protein
SCE1572_5119	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_4307	86.11	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_5120	FIG01086499: hypothetical protein	bi	sce_4308	70.86	FIG01086499: hypothetical protein
SCE1572_5121	Membrane-bound lytic murein transglycosylase D precursor (EC 3.2.1.-)	bi	sce_4309	88.84	Membrane-bound lytic murein transglycosylase D precursor (EC 3.2.1.-)
SCE1572_5122	Organic hydroperoxide resistance transcriptional regulator	bi	sce_4310	91.19	Organic hydroperoxide resistance transcriptional regulator
SCE1572_5123	RTX toxins and related Ca2温□ proteins	bi	sce_4311	74.68	FIG01088538: hypothetical protein
SCE1572_5124	CDP-alcohol phosphatidyltransferase	-		0	
SCE1572_5125	PAP2 family protein	-		0	
SCE1572_5126	hypothetical protein	-		0	
SCE1572_5127	hypothetical protein	bi	sce_4314	81.2	hypothetical protein
SCE1572_5128	Sulfur carrier protein adenylyltransferase ThiF	bi	sce_4315	94.06	Sulfur carrier protein adenylyltransferase ThiF
SCE1572_5129	hypothetical protein	-		0	
SCE1572_5130	hypothetical protein	bi	sce_4317	86.36	hypothetical protein
SCE1572_5131	hypothetical protein	bi	sce_4318	92	hypothetical protein
SCE1572_5132	TPR domain protein, putative component of TonB system	bi	sce_4319	94.97	TPR domain protein, putative component of TonB system
SCE1572_5133	annexin VII	uni	sce_8512	54.81	hypothetical protein
SCE1572_5134	hypothetical protein	bi	sce_4320	91.89	hypothetical protein
SCE1572_5135	histone protein	bi	sce_4321	80.16	conserved hypothetical protein
SCE1572_5136	hypothetical protein	bi	sce_4322	87.7	hypothetical protein
SCE1572_5137	hypothetical protein	bi	sce_4323	86.93	hypothetical protein
SCE1572_5138	hypothetical protein	-		0	
SCE1572_5139	hypothetical protein	-		0	
SCE1572_5140	hypothetical protein	-		0	
SCE1572_5141	Nudix hydrolase 3 (EC 3.6.1.-)	bi	sce_4324	85.43	hypothetical protein
SCE1572_5142	metallophosphoesterase	bi	sce_4325	81.01	metallophosphoesterase
SCE1572_5143	hypothetical protein	-		0	
SCE1572_5144	hypothetical protein	-		0	
SCE1572_5145	FIG01086383: hypothetical protein	bi	sce_3918	85.79	FIG01086383: hypothetical protein
SCE1572_5146	Diaphanous protein homolog 2	uni	sce_1504	52.88	hypothetical protein
SCE1572_5147	Glycoprotein gp2	uni	sce_1503	52.18	Glycoprotein gp2
SCE1572_5148	FIG01089660: hypothetical protein	bi	sce_4330	85.71	FIG01089660: hypothetical protein
SCE1572_5149	TPR repeat	uni	sce_4258	33.56	FIG01089217: hypothetical protein
SCE1572_5150	FIG01088065: hypothetical protein	bi	sce_4331	81.73	FIG01088065: hypothetical protein
SCE1572_5151	hypothetical protein	uni	sce_577	52.31	zinc finger/thioredoxin putative
SCE1572_5152	hypothetical protein	-		0	
SCE1572_5153	hypothetical protein	-		0	
SCE1572_5154	Oligoketide cyclase/lipid transport protein	bi	sce_4332	94.27	hypothetical protein
SCE1572_5155	hypothetical protein	uni	sce_7119	45.07	hypothetical protein
SCE1572_5156	hypothetical protein	-		0	
SCE1572_5157	FIG01087380: hypothetical protein	bi	sce_4333	84.19	FIG01087380: hypothetical protein
SCE1572_5158	hypothetical protein	-		0	
SCE1572_5159	hypothetical protein	bi	sce_4334	82.45	oxidoreductase, 2OG-Fe(II) oxygenase family
SCE1572_5160	NAD-dependent protein deacetylase of SIR2 family	bi	sce_4335	89.75	NAD-dependent protein deacetylase of SIR2 family
SCE1572_5161	hypothetical protein	-		0	
SCE1572_5162	hypothetical protein	-		0	
SCE1572_5163	hypothetical protein	-		0	
SCE1572_5164	hypothetical	bi	sce_7843	82.49	hypothetical
SCE1572_5165	hypothetical protein	uni	sce_3180	42.31	FIG01089285: hypothetical protein
SCE1572_5166	erythrocyte membrane protein 1 (PfEMP1)	uni	sce_8647	51.02	Arylsulfatase (EC 3.1.6.1)
SCE1572_5167	FIG01085964: hypothetical protein	bi	sce_5858	66.67	FIG01085964: hypothetical protein
SCE1572_5168	putative lipoprotein	-		0	
SCE1572_5169	hypothetical protein	-		0	
SCE1572_5170	Ribonucleotide reductase of class Ia (aerobic), alpha subunit (EC 1.17.4.1)	bi	sce_4336	88.19	Ribonucleotide reductase of class Ia (aerobic), alpha subunit (EC 1.17.4.1)
SCE1572_5171	Ribonucleotide reductase of class Ia (aerobic), beta subunit (EC 1.17.4.1)	bi	sce_4337	92.26	Ribonucleotide reductase of class Ia (aerobic), beta subunit (EC 1.17.4.1)
SCE1572_5172	hypothetical protein	-		0	
SCE1572_5173	hypothetical protein	-		0	
SCE1572_5174	periplasmic binding protein	-		0	
SCE1572_5175	ABC transport protein, ATP-binding component	uni	sce_10231	37.38	Putrescine transport ATP-binding protein PotA (TC 3.A.1.11.1)
SCE1572_5176	Vitamin B12 ABC transporter, permease component BtuC	uni	sce_327	38.29	Vitamin B12 ABC transporter, permease component BtuC
SCE1572_5177	hypothetical protein	bi	sce_4338	81.2	hypothetical protein
SCE1572_5178	Outer membrane vitamin B12 receptor BtuB	bi	sce_4339	80.49	Outer membrane vitamin B12 receptor BtuB
SCE1572_5179	hypothetical protein	uni	sce_3858	36.31	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_5180	Isochorismate synthase (EC 5.4.4.2) of siderophore biosynthesis	bi	sce_4340	83.41	Isochorismate synthase (EC 5.4.4.2) of siderophore biosynthesis
SCE1572_5181	Isochorismatase (EC 3.3.2.1) of siderophore biosynthesis	bi	sce_4342	78.12	Isochorismatase (EC 3.3.2.1) of siderophore biosynthesis
SCE1572_5182	iron-chelator utilization protein	bi	sce_4343	77.42	iron-chelator utilization protein
SCE1572_5183	2,3-dihydro-2,3-dihydroxybenzoate dehydrogenase (EC 1.3.1.28) [bacillibactin] siderophore @ 2,3-dihydro-2,3-dihydroxybenz	bi	sce_4344	81.4	2,3-dihydro-2,3-dihydroxybenzoate dehydrogenase (EC 1.3.1.28) [bacillibactin] siderophore @ 2,3-dihydro-2,3-dihydroxybenzoate
SCE1572_5184	hypothetical protein	bi	sce_4345	72.29	hypothetical protein
SCE1572_5185	MxcI	bi	sce_4346	67.06	MxcI
SCE1572_5186	TonB-dependent receptor	bi	sce_4347	61.57	TonB-dependent receptor
SCE1572_5187	hypothetical protein	-		0	
SCE1572_5188	non-ribosomal peptide synthase MxcG	bi	sce_4350	37.5	Non-ribosomal peptide synthase MxcG
SCE1572_5189	Arabinose efflux permease	bi	sce_4352	78.8	Arabinose efflux permease
SCE1572_5190	major facilitator superfamily MFS_1	-		0	
SCE1572_5191	Assimilatory nitrate reductase large subunit (EC:1.7.99.4)	uni	sce_1282	45.3	Assimilatory nitrate reductase large subunit (EC:1.7.99.4)
SCE1572_5192	Fe-S-cluster-containing hydrogenase components 1	uni	sce_5260	30.23	Fe-S-cluster-containing hydrogenase components 1
SCE1572_5193	Rieske (2Fe-2S) region	-		0	
SCE1572_5194	hypothetical protein	-		0	
SCE1572_5195	C4-dicarboxylate transporter/malic acid transport protein	-		0	
SCE1572_5196	Redoxin	-		0	
SCE1572_5197	hypothetical protein	-		0	
SCE1572_5198	HflC protein	-		0	
SCE1572_5199	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_8328	44.53	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_5200	long-chain fatty acid transport protein	bi	sce_4359	85.26	hypothetical protein
SCE1572_5201	hypothetical protein	uni	sce_5640	29.19	FIG01089683: hypothetical protein
SCE1572_5202	Ribosomal RNA large subunit methyltransferase N (EC 2.1.1.-)	bi	sce_4360	91.02	Ribosomal RNA large subunit methyltransferase N (EC 2.1.1.-)
SCE1572_5203	Twin-arginine translocation protein TatB	bi	sce_4361	51.11	Twin-arginine translocation protein TatB
SCE1572_5204	Twin-arginine translocation protein TatC	bi	sce_4362	90.17	Twin-arginine translocation protein TatC
SCE1572_5205	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)	bi	sce_4363	93.91	Prolipoprotein diacylglyceryl transferase (EC 2.4.99.-)
SCE1572_5206	Lipoprotein signal peptidase (EC 3.4.23.36)	bi	sce_4364	88.05	Lipoprotein signal peptidase (EC 3.4.23.36)
SCE1572_5207	Lipoprotein signal peptidase (EC 3.4.23.36)	bi	sce_4365	84.14	Lipoprotein signal peptidase (EC 3.4.23.36)
SCE1572_5208	OmpA family protein	bi	sce_4366	70.62	Outer membrane lipoprotein omp16 precursor
SCE1572_5209	FIG01086986: hypothetical protein	bi	sce_4367	72.65	FIG01086986: hypothetical protein
SCE1572_5210	hypothetical protein	-		0	
SCE1572_5211	ATP-dependent RNA helicase	bi	sce_4368	95.51	ATP-dependent RNA helicase
SCE1572_5212	Short chain dehydrogenase	bi	sce_9054	86.54	Short chain dehydrogenase
SCE1572_5213	serine/threonine protein kinase	bi	sce_4370	78.3	serine/threonine protein kinase
SCE1572_5214	Mlr5283 protein	bi	sce_4371	89.47	Mlr5283 protein
SCE1572_5215	Fimh-like protein	bi	sce_4372	76.98	Fimh-like protein
SCE1572_5216	hypothetical protein	-		0	
SCE1572_5217	Serine protease precursor	bi	sce_4373	82.2	Serine protease precursor
SCE1572_5218	hypothetical protein	-		0	
SCE1572_5219	hypothetical protein	-		0	
SCE1572_5220	FIG01087528: hypothetical protein	bi	sce_4374	83.42	FIG01087528: hypothetical protein
SCE1572_5221	FIG01085600: hypothetical protein	bi	sce_4375	94.85	FIG01085600: hypothetical protein
SCE1572_5222	FIG00706509: hypothetical protein	bi	sce_4377	91.5	FIG00706509: hypothetical protein
SCE1572_5223	Huntingtin interacting protein E-like protein	bi	sce_4378	87.84	Huntingtin interacting protein E-like protein
SCE1572_5224	Endonuclease III (EC 4.2.99.18)	bi	sce_4379	85.19	Endonuclease III (EC 4.2.99.18)
SCE1572_5225	hypothetical protein	bi	sce_4380	72.04	hypothetical protein
SCE1572_5226	putative periplasmic protein kinase ArgK and related GTPases of G3E family	bi	sce_4381	91.34	putative periplasmic protein kinase ArgK and related GTPases of G3E family
SCE1572_5227	hypothetical protein	bi	sce_4382	71.23	PE-PGRS FAMILY PROTEIN
SCE1572_5228	Arginine-tRNA-protein transferase (EC 2.3.2.8)	bi	sce_4383	91.67	arginine-tRNA-protein transferase
SCE1572_5229	RNA binding protein	bi	sce_4384	94	RNA binding protein
SCE1572_5230	Glutamate synthase [NADPH] small chain (EC 1.4.1.13)	bi	sce_4385	93.54	Glutamate synthase [NADPH] small chain (EC 1.4.1.13)
SCE1572_5231	Biotin carboxylase of acetyl-CoA carboxylase (EC 6.3.4.14)	bi	sce_4386	95.76	Biotin carboxylase of acetyl-CoA carboxylase (EC 6.3.4.14)
SCE1572_5232	Biotin carboxyl carrier protein of acetyl-CoA carboxylase	bi	sce_4387	88.7	Biotin carboxyl carrier protein of acetyl-CoA carboxylase
SCE1572_5233	3-dehydroquinate dehydratase I (EC 4.2.1.10)	bi	sce_4388	93.75	3-dehydroquinate dehydratase I (EC 4.2.1.10)
SCE1572_5234	hypothetical protein	bi	sce_4389	98.32	hypothetical protein
SCE1572_5235	Aconitate hydratase (EC 4.2.1.3)	bi	sce_4390	95.58	Aconitate hydratase (EC 4.2.1.3)
SCE1572_5236	hypothetical protein	bi	sce_4391	85.21	hypothetical protein
SCE1572_5237	FIG01089373: hypothetical protein	bi	sce_4392	92.35	FIG01089373: hypothetical protein
SCE1572_5238	Sulfatase	bi	sce_4393	83.99	Sulfatase
SCE1572_5239	FIG01087844: hypothetical protein	bi	sce_4394	81.4	FIG01087844: hypothetical protein
SCE1572_5240	hypothetical protein	bi	sce_4395	83.82	hypothetical protein
SCE1572_5241	FIG01087817: hypothetical protein	bi	sce_4396	84.89	FIG01087817: hypothetical protein
SCE1572_5242	hypothetical protein	bi	sce_4397	86.43	hypothetical protein
SCE1572_5243	hypothetical protein	bi	sce_4398	100	hypothetical protein
SCE1572_5244	A/G-specific adenine glycosylase (EC 3.2.2.-)	bi	sce_4399	89.77	A/G-specific adenine glycosylase (EC 3.2.2.-)
SCE1572_5245	hypothetical protein	bi	sce_4400	84.35	hypothetical protein

SCE1572_5246	conserved hypothetical protein	bi	sce_4402	98.81	conserved hypothetical protein
SCE1572_5247	hypothetical protein	bi	sce_4403	93.28	hypothetical protein
SCE1572_5248	FIG01085847: hypothetical protein	bi	sce_4404	86.65	FIG01085847: hypothetical protein
SCE1572_5249	FIG01088685: hypothetical protein	bi	sce_4405	78.83	FIG01088685: hypothetical protein
SCE1572_5250	hypothetical protein with 50bp hit to Dihydrolipoamide acetyltransferase	bi	sce_4406	90.63	hypothetical protein with 50bp hit to Dihydrolipoamide acetyltransferase
SCE1572_5251	serine/threonine protein kinase Pkn1	bi	sce_4407	78.28	serine/threonine protein kinase Pkn1
SCE1572_5252	hypothetical protein	bi	sce_4408	83.61	hypothetical protein
SCE1572_5253	hypothetical protein	-		0	
SCE1572_5254	serine/threonine protein kinase Pkn9(EC:2.7.1.-)	bi	sce_4409	74.43	serine/threonine protein kinase Pkn9(EC:2.7.1.-)
SCE1572_5255	hypothetical protein	bi	sce_4410	58.62	hypothetical protein
SCE1572_5256	hypothetical protein	bi	sce_4411	90.8	transglycosylase-associated protein
SCE1572_5257	hypothetical protein	bi	sce_4412	77.74	FIG01088464: hypothetical protein
SCE1572_5258	hypothetical protein	-		0	
SCE1572_5259	serine/threonine protein kinase	bi	sce_4413	86.09	serine/threonine protein kinase
SCE1572_5260	Membrane protein involved in the export of O-antigen, teichoic acid lipoteichoic acids	bi	sce_4415	91.25	O-antigen transporter related protein
SCE1572_5261	FIG01087063: hypothetical protein	bi	sce_4416	86.67	FIG01087063: hypothetical protein
SCE1572_5262	Signal recognition particle receptor protein FtsY (=alpha subunit) (TC 3.A.5.1.1)	-		0	
SCE1572_5263	hypothetical protein	-		0	
SCE1572_5264	Fatty acid hydroxylase	bi	sce_4418	91.98	Fatty acid hydroxylase
SCE1572_5265	hypothetical protein	-		0	
SCE1572_5266	Alcohol dehydrogenase (EC 1.1.1.1)	bi	sce_4420	96.87	Alcohol dehydrogenase (EC 1.1.1.1)
SCE1572_5267	glutamine synthetase family protein	bi	sce_4421	92.05	glutamine synthetase family protein
SCE1572_5268	hypothetical protein	bi	sce_4422	89.22	hypothetical protein
SCE1572_5269	Serine/threonine kinase	bi	sce_4423	88.59	Serine/threonine kinase
SCE1572_5270	hypothetical protein	bi	sce_4424	92	hypothetical protein
SCE1572_5271	hypothetical protein	-		0	
SCE1572_5272	Adenylate cyclase (EC 4.6.1.1)	uni	sce_3976	36.61	TPR repeat
SCE1572_5273	hypothetical protein	bi	sce_4427	83.12	hypothetical protein
SCE1572_5274	hypothetical protein	-		0	
SCE1572_5275	hypothetical protein	-		0	
SCE1572_5276	hypothetical protein	bi	sce_4428	68.83	hypothetical protein
SCE1572_5277	hypothetical protein	-		0	
SCE1572_5278	hypothetical protein	bi	sce_4431	91.4	hypothetical protein
SCE1572_5279	Tyrosine protein kinase:Serine/threonine protein kinase:PASTA	bi	sce_4432	90	hypothetical protein
SCE1572_5280	Methionine ABC transporter ATP-binding protein	bi	sce_4433	97.96	Methionine ABC transporter ATP-binding protein
SCE1572_5281	hypothetical protein	-		0	
SCE1572_5282	hypothetical protein	uni	sce_3634	50	hypothetical protein
SCE1572_5283	lipid A biosynthesis lauroyl acyltransferase	bi	sce_4434	88.69	lipid A biosynthesis lauroyl acyltransferase
SCE1572_5284	two-component response regulator	bi	sce_4435	93.4	two-component response regulator
SCE1572_5285	FIG01087180: hypothetical protein	bi	sce_4436	88	FIG01087180: hypothetical protein
SCE1572_5286	putative lipoprotein	bi	sce_4439	84.01	putative lipoprotein
SCE1572_5287	General stress protein	bi	sce_4440	79.81	General stress protein
SCE1572_5288	Probable ATP-dependent helicase lhr (EC 3.6.1.-)	bi	sce_4441	91.06	Probable ATP-dependent helicase lhr (EC 3.6.1.-)
SCE1572_5289	hypothetical protein	-		0	
SCE1572_5290	Transglutaminase elicitor M81D	bi	sce_4444	82.69	Transglutaminase elicitor M81D
SCE1572_5291	hypothetical protein	-		0	
SCE1572_5292	hypothetical protein	bi	sce_4448	81.92	hypothetical protein
SCE1572_5293	Transcriptional regulator, LysR family	uni	sce_9885	50.74	LysR family transcriptional regulator
SCE1572_5294	Hydrolase, alpha/beta fold family protein, At1g52510/AT4G12830 homolog 2	uni	sce_3912	34.78	Epoxide hydrolase (EC 3.3.2.9)
SCE1572_5295	FIG01086489: hypothetical protein	bi	sce_4451	80.44	FIG01086489: hypothetical protein
SCE1572_5296	conserved hypothetical protein	bi	sce_9863	65.26	conserved hypothetical membrane spanning protein
SCE1572_5297	FIG01086743: hypothetical protein	bi	sce_4452	58.56	FIG01086743: hypothetical protein
SCE1572_5298	acetyltransferase, GNAT family	bi	sce_4454	75.76	acetyltransferase, GNAT family
SCE1572_5299	Peptidyl-dipeptidase A precursor (EC 3.4.15.1)	bi	sce_4455	83.96	Peptidyl-dipeptidase A precursor (EC 3.4.15.1)
SCE1572_5300	Arabinan endo-1,5-alpha-L-arabinosidase (EC 3.2.1.99)	uni	sce_5529	61.29	Type III effector HrpW, hairpin with pectate lyase domain
SCE1572_5301	hypothetical protein	-		0	
SCE1572_5302	hypothetical protein	uni	sce_5645	36.13	Cell division inhibitor
SCE1572_5303	hypothetical protein	-		0	
SCE1572_5304	FIG00822188: hypothetical protein	bi	sce_4456	86.61	Glyoxalase/bleomycin resistance protein/dioxygenase
SCE1572_5305	hypothetical protein	-		0	
SCE1572_5306	FIG01088446: hypothetical protein	bi	sce_1644	86.11	FIG01088446: hypothetical protein
SCE1572_5307	FIG01085317: hypothetical protein	bi	sce_1643	84.55	FIG01085317: hypothetical protein
SCE1572_5308	FIG01087668: hypothetical protein	bi	sce_1642	89.69	FIG01087668: hypothetical protein
SCE1572_5309	Chromosome (plasmid) partitioning protein ParA / Sporulation initiation inhibitor protein Soj	bi	sce_1641	96.25	Chromosome (plasmid) partitioning protein ParA / Sporulation initiation inhibitor protein Soj
SCE1572_5310	FIG01085974: hypothetical protein	bi	sce_1640	82.12	FIG01085974: hypothetical protein
SCE1572_5311	FIG01089084: hypothetical protein	bi	sce_1639	94.21	FIG01089084: hypothetical protein
SCE1572_5312	amidohydrolase 2	-		0	
SCE1572_5313	hypothetical protein	-		0	
SCE1572_5314	hypothetical protein	-		0	
SCE1572_5315	FOG: WD40 repeat	bi	sce_4457	81.34	FOG: WD40 repeat
SCE1572_5316	FIG01087827: hypothetical protein	uni	sce_207	78.36	FIG01088682: hypothetical protein
SCE1572_5317	hypothetical protein	-		0	
SCE1572_5318	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_5211	36.47	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_5319	6-phosphogluconate dehydrogenase, NAD-binding	-		0	
SCE1572_5320	probable transcriptional regulator	uni	sce_5984	40.91	FIG01086592: hypothetical protein
SCE1572_5321	RNA polymerase sigma-70 factor, ECF subfamily	bi	sce_9369	44.48	putative RNA polymerase sigma factor
SCE1572_5322	Mll1641 protein	uni	sce_492	42.96	4-carboxymuconolactone decarboxylase domain/alkylhydroperoxidase AhpD family core domain protein
SCE1572_5323	hypothetical protein	-		0	
SCE1572_5324	putative heat shock protein	bi	sce_4460	92.1	putative heat shock protein
SCE1572_5325	Malate permease	bi	sce_4462	88.1	Malate permease
SCE1572_5326	hypothetical protein	-		0	
SCE1572_5327	Transketolase (EC 2.2.1.1)	bi	sce_4463	93.83	Transketolase (EC 2.2.1.1)
SCE1572_5328	hypothetical protein	uni	sce_1320	42.4	FIG01086874: hypothetical protein
SCE1572_5329	FIG01086874: hypothetical protein	uni	sce_1320	40.4	FIG01086874: hypothetical protein
SCE1572_5330	serine/threonine kinase family protein	uni	sce_1646	60	hypothetical protein
SCE1572_5331	RsbR, positive regulator of sigma-B	bi	sce_4465	83.18	RsbR, positive regulator of sigma-B
SCE1572_5332	serine/threonine kinase with two-component sensor domain	bi	sce_4466	84.88	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_5333	acyl-CoA dehydrogenase family protein	bi	sce_4467	84.44	acyl-CoA dehydrogenase family protein
SCE1572_5334	Circumsporozoite protein	bi	sce_2438	84.92	Circumsporozoite protein
SCE1572_5335	Glu-tRNAGln amidotransferase A subunit	bi	sce_6710	74.26	Glu-tRNAGln amidotransferase A subunit
SCE1572_5336	Methanol oxidation genes, glmU-like	bi	sce_4472	83.63	hypothetical protein
SCE1572_5337	FIG01085490: hypothetical protein	bi	sce_3082	80.98	FIG01085490: hypothetical protein
SCE1572_5338	Protein of unknown function UPF0060	-		0	
SCE1572_5339	putative cation efflux system protein czcB	bi	sce_3073	74.78	Probable Co/Zn/Cd efflux system membrane fusion protein
SCE1572_5340	Probable Co/Zn/Cd efflux system membrane fusion protein	bi	sce_3074	87.47	Probable Co/Zn/Cd efflux system membrane fusion protein
SCE1572_5341	Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA	bi	sce_3075	94.47	Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA
SCE1572_5342	thioredoxin	bi	sce_3076	69.74	thioredoxin
SCE1572_5343	hypothetical protein	bi	sce_4470	82.86	hypothetical protein
SCE1572_5344	hypothetical protein	-		0	
SCE1572_5345	Glutathione S-transferase domain protein	bi	sce_4471	86.93	Glutathione S-transferase domain protein
SCE1572_5346	FIG01086763: hypothetical protein	bi	sce_4473	89.39	FIG01086763: hypothetical protein
SCE1572_5347	Transcriptional regulator, XRE family	bi	sce_4474	85.32	Mll7704 protein
SCE1572_5348	Serine-threonine protein kinase	bi	sce_4475	70.12	Serine-threonine protein kinase
SCE1572_5349	hypothetical protein	-		0	
SCE1572_5350	S-adenosylmethionine decarboxylase proenzyme	-		0	
SCE1572_5351	hypothetical protein	-		0	
SCE1572_5352	Adenylate cyclase (EC 4.6.1.1)	bi	sce_4477	87.72	Adenylate cyclase (EC 4.6.1.1)
SCE1572_5353	Conserved domain protein	uni	sce_8776	46.67	hypothetical protein
SCE1572_5354	hydrolase	bi	sce_4479	82.61	hydrolase
SCE1572_5355	SAM-dependent methyltransferases	bi	sce_4481	90.43	SAM-dependent methyltransferases
SCE1572_5356	hypothetical protein	-		0	
SCE1572_5357	Catalase (EC 1.11.1.6)	-		0	
SCE1572_5358	hypothetical protein-transmembrane prediction	-		0	
SCE1572_5359	putative integral membrane transport protein	bi	sce_4482	83.86	putative integral membrane transport protein
SCE1572_5360	hypothetical protein	-		0	
SCE1572_5361	Galactitol utilization operon repressor	bi	sce_4484	91.73	Galactitol utilization operon repressor
SCE1572_5362	hypothetical protein	bi	sce_6192	41.11	FIG01089550: hypothetical protein
SCE1572_5363	serine/threonine protein kinase	uni	sce_6193	53.28	serine/threonine protein kinase
SCE1572_5364	hypothetical protein	-		0	
SCE1572_5365	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	bi	sce_6194	56.73	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_5366	Response regulator of zinc sigma-54-dependent two-component system	uni	sce_497	68.78	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_5367	hypothetical protein	-		0	
SCE1572_5368	Cadmium resistance transporter	bi	sce_4493	78.04	Cadmium resistance transporter
SCE1572_5369	Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.(	bi	sce_4494	84.24	Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.6.3.4)
SCE1572_5370	hypothetical protein	-		0	
SCE1572_5371	FIG01088200: hypothetical protein	bi	sce_4495	67.79	FIG01088200: hypothetical protein
SCE1572_5372	FIG01085222: hypothetical protein	bi	sce_7583	95.72	FIG01085222: hypothetical protein
SCE1572_5373	FIG00501689: hypothetical protein	bi	sce_7582	89.62	FIG00501689: hypothetical protein
SCE1572_5374	FIG01134227: hypothetical protein	bi	sce_4496	79	Ricin B lectin
SCE1572_5375	Nucleoside-diphosphate-sugar epimerases	bi	sce_4497	92.86	NAD-dependent epimerase/dehydratase
SCE1572_5376	Tat (twin-arginine translocation) pathway signal sequence domain protein	bi	sce_4498	87.17	Tat (twin-arginine translocation) pathway signal sequence domain protein
SCE1572_5377	Cellulose-binding domain protein	bi	sce_4499	81.71	Cellulose-binding domain protein
SCE1572_5378	integral membrane protein	-		0	
SCE1572_5379	Urate oxidase(EC:1.7.3.3)	bi	sce_4505	87.14	Urate oxidase(EC:1.7.3.3)
SCE1572_5380	FIG01088504: hypothetical protein	bi	sce_4506	70.72	FIG01088504: hypothetical protein
SCE1572_5381	Probable two-component sensor	bi	sce_4507	78.79	Probable two-component sensor
SCE1572_5382	Osmosensitive K channel histidine kinase kdpD (EC 2.7.3.-)	bi	sce_4508	80.93	response regulator receiver modulated serine phosphatase with GAF sensor
SCE1572_5383	peptidase M1, membrane alanine aminopeptidase	uni	sce_5948	51.9	Chitinase (EC 3.2.1.14)
SCE1572_5384	Enoyl-[acyl-carrier-protein] reductase [FMN] (EC 1.3.1.9)	bi	sce_2062	43.48	Enoyl-[acyl-carrier-protein] reductase [FMN] (EC 1.3.1.9)
SCE1572_5385	Glucoamylase (EC 3.2.1.3)	bi	sce_4509	80.31	Glucoamylase (EC 3.2.1.3)
SCE1572_5386	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	bi	sce_4510	89.53	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_5387	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)	bi	sce_4511	92.13	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)
SCE1572_5388	Xylose ABC transporter, periplasmic xylose-binding protein XylF	bi	sce_4512	90.17	Xylose ABC transporter, periplasmic xylose-binding protein XylF
SCE1572_5389	RsbR, positive regulator of sigma-B	bi	sce_4513	89.38	RsbR, positive regulator of sigma-B
SCE1572_5390	hypothetical protein	-		0	
SCE1572_5391	Nitrate ABC transporter, ATP-binding protein	bi	sce_4516	92.15	Nitrate ABC transporter, ATP-binding protein
SCE1572_5392	Nitrate ABC transporter, ATP-binding protein	bi	sce_4517	88.41	Nitrate ABC transporter, ATP-binding protein
SCE1572_5393	Nitrate ABC transporter, permease protein	bi	sce_4518	98.48	Nitrate ABC transporter, permease protein
SCE1572_5394	Nitrate ABC transporter, nitrate-binding protein	bi	sce_4519	90.89	Nitrate ABC transporter, nitrate-binding protein
SCE1572_5395	hypothetical protein	-		0	
SCE1572_5396	FIG01087334: hypothetical protein	uni	sce_5952	52.9	FIG01087334: hypothetical protein
SCE1572_5397	putative cytochrome P450 hydroxylase	uni	sce_7075	50.88	putative cytochrome P450 hydroxylase
SCE1572_5398	probable hydrolase protein, putative	-		0	
SCE1572_5399	hypothetical protein	-		0	
SCE1572_5400	Cytochrome c peroxidase (EC 1.11.1.5)	bi	sce_4522	89.26	Cytochrome c peroxidase (EC 1.11.1.5)
SCE1572_5401	FIG01086674: hypothetical protein	bi	sce_4523	58.92	Sporulation domain protein
SCE1572_5402	hypothetical protein	bi	sce_4524	79.19	protein of unknown function DUF323
SCE1572_5403	hypothetical protein	uni	sce_8637	49.06	FIG01087436: hypothetical protein
SCE1572_5404	glyoxalase family protein	bi	sce_4537	92.31	glyoxalase family protein
SCE1572_5405	serine/threonine protein kinase	bi	sce_4538	69.78	serine/threonine protein kinase
SCE1572_5406	hypothetical protein	uni	sce_4539	78.07	FIG01086337: hypothetical protein
SCE1572_5407	hypothetical protein	bi	sce_4539	79.57	FIG01086337: hypothetical protein
SCE1572_5408	protein kinase domain protein	bi	sce_4540	80	protein kinase domain protein
SCE1572_5409	hypothetical protein	-		0	

SCE1572_5410	hypothetical protein	-		0	
SCE1572_5411	hypothetical protein	-		0	
SCE1572_5412	sigma-54 dependent transcriptional regulator, Fis family	bi	sce_4562	85.24	two component, sigma54 specific, transcriptional regulator, Fis family
SCE1572_5413	hypothetical protein	-		0	
SCE1572_5414	endo alpha-1,4 polygalactosaminidase precusor	bi	sce_4564	86.01	endo alpha-1,4 polygalactosaminidase precusor
SCE1572_5415	Alpha-2-macroglobulin, protease inhibitor I39.001	bi	sce_4565	83.73	Alpha-2-macroglobulin, protease inhibitor I39.001
SCE1572_5416	hypothetical protein	bi	sce_4566	84.33	hypothetical protein
SCE1572_5417	Methylenetetrahydrofolate dehydrogenase (NADP) (EC 1.5.1.5) / Methenyltetrahydrofolate cyclohydrolase (EC 3.5.4.9)	bi	sce_4567	89.81	Methylenetetrahydrofolate dehydrogenase (NADP) (EC 1.5.1.5) / Methenyltetrahydrofolate cyclohydrolase (EC 3.5.4.9)
SCE1572_5418	putative hydroxylase	uni	sce_10011	44.88	Oxidoreductase
SCE1572_5419	Transcriptional regulator, LysR family	bi	sce_9329	55.67	Transcriptional regulator, LysR family
SCE1572_5420	Serine-threonine protein kinase	bi	sce_4568	63.37	Serine-threonine protein kinase
SCE1572_5421	FIG01086072: hypothetical protein	bi	sce_4569	77.49	FIG01086072: hypothetical protein
SCE1572_5422	hypothetical protein	-		0	
SCE1572_5423	Similar to 5-oxoprolinase (EC 3.5.2.9) and Methylhydantoinases A, B (EC 3.5.2.14), contradiction in experimental data (see A	bi	sce_4573	91.17	Similar to 5-oxoprolinase (EC 3.5.2.9) and Methylhydantoinases A, B (EC 3.5.2.14), contradiction in experimental data (see Annotat
SCE1572_5424	S-layer-like array protein	uni	sce_3992	45.15	S-layer-like array protein
SCE1572_5425	serine/threonine protein kinase	uni	sce_7827	41.93	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_5426	Potassium efflux system KefA protein / Small-conductance mechanosensitive channel	bi	sce_1600	35.16	Potassium efflux system KefA protein / Small-conductance mechanosensitive channel
SCE1572_5427	Regulator of nucleoside diphosphate kinase	bi	sce_3045	84.29	Regulator of nucleoside diphosphate kinase
SCE1572_5428	hypothetical protein	-		0	
SCE1572_5429	Mannonate dehydratase (EC 4.2.1.8)	bi	sce_4574	90.17	Mannonate dehydratase (EC 4.2.1.8)
SCE1572_5430	FIG01085379: hypothetical protein	bi	sce_7563	79.31	FIG01085379: hypothetical protein
SCE1572_5431	Transcriptional regulator, TetR family	uni	sce_7500	44.95	Transcriptional regulator, TetR family
SCE1572_5432	Bll2291 protein	uni	sce_2641	36.91	Bll2291 protein
SCE1572_5433	FIG01087334: hypothetical protein	uni	sce_5952	52.74	FIG01087334: hypothetical protein
SCE1572_5434	Acetyl-CoA synthetase (ADP-forming) alpha and beta chains, putative	bi	sce_4578	88.18	Acetyl-CoA synthetase (ADP-forming) alpha and beta chains, putative
SCE1572_5435	putative cytochrome P450 hydroxylase	uni	sce_9951	44.62	putative cytochrome P450 hydroxylase
SCE1572_5436	putative HTH-type transcriptional regulator	uni	sce_1916	41.79	transcriptional regulator, TetR family
SCE1572_5437	hypothetical protein	-		0	
SCE1572_5438	hypothetical protein	-		0	
SCE1572_5439	hypothetical protein	-		0	
SCE1572_5440	6-phosphogluconate dehydrogenase, NAD-binding	uni	sce_3971	25.56	6-phosphogluconate dehydrogenase, decarboxylating (EC 1.1.1.44)
SCE1572_5441	Extracellular ligand-binding receptor	uni	sce_6246	26.3	Urea ABC transporter, substrate binding protein UrtA
SCE1572_5442	High-affinity branched-chain amino acid transport system permease protein LivH (TC 3.A.1.4.1)	uni	sce_6247	30.69	Urea ABC transporter, permease protein UrtB
SCE1572_5443	Branched-chain amino acid transport system permease protein LivM (TC 3.A.1.4.1)	uni	sce_6248	32.8	Urea ABC transporter, permease protein UrtC
SCE1572_5444	Branched-chain amino acid transport ATP-binding protein LivG (TC 3.A.1.4.1)	uni	sce_9614	38.15	Branched-chain amino acid transport ATP-binding protein LivG (TC 3.A.1.4.1)
SCE1572_5445	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.A.1.4.1)	uni	sce_9615	42.99	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.A.1.4.1)
SCE1572_5446	ABC transporter related	uni	sce_4511	40	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)
SCE1572_5447	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_5941	39.09	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_5448	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_8328	34.94	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_5449	Methylmalonate-semialdehyde dehydrogenase (EC 1.2.1.27)	uni	sce_7163	50.73	Methylmalonate-semialdehyde dehydrogenase (EC 1.2.1.27)
SCE1572_5450	Predicted transcriptional regulator of the myo-inositol catabolic operon	-		0	
SCE1572_5451	Cytosine/purine/uracil/thiamine/allantoin permease family protein	bi	sce_5278	87.19	Cytosine/purine/uracil/thiamine/allantoin permease family protein
SCE1572_5452	FIG00841528: hypothetical protein	bi	sce_5276	86.61	FIG00841528: hypothetical protein
SCE1572_5453	Permease of the drug/metabolite transporter (DMT) superfamily	uni	sce_9610	25.94	protein of unknown function DUF6, transmembrane
SCE1572_5454	Tryptophan synthase alpha chain (EC 4.2.1.20)	uni	sce_1233	37.12	Tryptophan synthase alpha chain (EC 4.2.1.20)
SCE1572_5455	Tryptophan synthase beta chain (EC 4.2.1.20)	uni	sce_1232	57.36	Tryptophan synthase beta chain (EC 4.2.1.20)
SCE1572_5456	Anthranilate phosphoribosyltransferase (EC 2.4.2.18)	uni	sce_1230	45.34	Anthranilate phosphoribosyltransferase (EC 2.4.2.18)
SCE1572_5457	oxidoreductase domain protein	uni	sce_6003	35.47	NAD binding oxidoreductase
SCE1572_5458	malate/L-lactate dehydrogenase	-		0	
SCE1572_5459	Acetylornithine deacetylase (EC 3.5.1.16)	-		0	
SCE1572_5460	xylose isomerase domain protein TIM barrel	-		0	
SCE1572_5461	DegT/DnrJ/EryC1/StrS aminotransferase family protein	uni	sce_8219	43.62	DegT/DnrJ/EryC1/StrS family protein
SCE1572_5462	pleiotropic regulatory protein	uni	sce_8219	42.97	DegT/DnrJ/EryC1/StrS family protein
SCE1572_5463	hypothetical protein	-		0	
SCE1572_5464	Phosphoglucosamine mutase (EC 5.4.2.10)	uni	sce_6482	47.44	Phosphoglucosamine mutase (EC 5.4.2.10)
SCE1572_5465	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] (EC 2.6.1.16)	uni	sce_8287	47.64	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] (EC 2.6.1.16)
SCE1572_5466	UDP-glucose dehydrogenase (EC 1.1.1.22)	uni	sce_984	47.07	UDP-glucose dehydrogenase (EC 1.1.1.22)
SCE1572_5467	RsbR, positive regulator of sigma-B	uni	sce_7786	52.84	FIG00502110: hypothetical protein
SCE1572_5468	serine/threonine protein kinase	uni	sce_5835	45.32	putative PAS/PAC sensor protein
SCE1572_5469	hypothetical protein	uni	sce_5173	24.85	Chloride peroxidase(EC:1.11.1.10)
SCE1572_5470	Spore coat assembly protein-like protein	bi	sce_4595	77.03	putative cellulosomal protein
SCE1572_5471	Kazal-type serine protease inhibitor domain	bi	sce_4596	69.17	Kazal-type serine protease inhibitor domain
SCE1572_5472	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_5891	42.71	unknown
SCE1572_5473	transcriptional regulator, AraC family	uni	sce_6707	45.99	transcriptional regulator
SCE1572_5474	O-Methyltransferase involved in polyketide biosynthesis	bi	sce_2405	35.46	O-Methyltransferase involved in polyketide biosynthesis
SCE1572_5475	transcriptional regulator, TetR family	bi	sce_8779	89.5	transcriptional regulator, TetR family protein
SCE1572_5476	Phosphoenolpyruvate synthase (EC 2.7.9.2)	bi	sce_8781	80.25	Phosphoenolpyruvate synthase (EC 2.7.9.2)
SCE1572_5477	Probable transmembrane efflux transmembrane protein	bi	sce_8782	89.13	Probable transmembrane efflux transmembrane protein
SCE1572_5478	conserved hypothetical protein	uni	sce_1626	32.73	PUTATIVE CYCLOPROPANE-FATTY-ACYL-PHOSPHOLIPID SYNTHASE PROTEIN(EC:2.1.1.79)
SCE1572_5479	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_4108	61.62	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_5480	RsbR, positive regulator of sigma-B	bi	sce_7640	84.52	RsbR, positive regulator of sigma-B
SCE1572_5481	hypothetical protein	-		0	
SCE1572_5482	Bll2291 protein	bi	sce_5502	62.21	Bll2291 protein
SCE1572_5483	3-hydroxyphenylpropionic acid transporter	bi	sce_5480	88.22	3-hydroxyphenylpropionic acid transporter
SCE1572_5484	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases	uni	sce_5479	91.6	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases
SCE1572_5485	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_7637	81.3	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_5486	RsbR, positive regulator of sigma-B	uni	sce_9946	37.92	RsbR, positive regulator of sigma-B
SCE1572_5487	Response regulator	bi	sce_4598	80.08	Response regulator
SCE1572_5488	Dihydrofolate reductase (EC 1.5.1.3)	bi	sce_4599	72.45	Dihydrofolate reductase (EC 1.5.1.3)
SCE1572_5489	hypothetical protein	-		0	
SCE1572_5490	hypothetical protein	-		0	
SCE1572_5491	hypothetical protein	uni	sce_3696	30.57	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_5492	hypothetical protein	uni	sce_8932	30.47	hypothetical protein
SCE1572_5493	hypothetical protein	-		0	
SCE1572_5494	hypothetical protein	-		0	
SCE1572_5495	AAA family ATPase	uni	sce_2324	34.55	ATPase, AAA family
SCE1572_5496	hypothetical protein	-		0	
SCE1572_5497	hypothetical protein	-		0	
SCE1572_5498	COG1538: Outer membrane protein	uni	sce_1486	42.03	VgrG protein
SCE1572_5499	hypothetical protein	uni	sce_2334	26.98	FIG01125469: hypothetical protein
SCE1572_5500	hypothetical protein	uni	sce_2333	25.31	FIG00500935: hypothetical protein
SCE1572_5501	hypothetical protein	uni	sce_2332	29.63	hypothetical protein
SCE1572_5502	conserved hypothetical protein	uni	sce_2331	32.67	hypothetical protein
SCE1572_5503	hypothetical protein	bi	sce_2329	41.22	VgrG protein
SCE1572_5504	hypothetical protein	bi	sce_2328	29.49	hypothetical protein
SCE1572_5505	hypothetical protein	uni	sce_2327	34.38	hypothetical protein
SCE1572_5506	hypothetical protein	-		0	
SCE1572_5507	hypothetical protein	uni	sce_10086	37.61	Methyl-accepting chemotaxis protein
SCE1572_5508	OmpA/MotB	uni	sce_6493	38.95	Translation initiation factor 2
SCE1572_5509	hypothetical protein	uni	sce_9445	36.2	hypothetical protein
SCE1572_5510	hypothetical protein	uni	sce_2321	31.92	hypothetical protein
SCE1572_5511	hypothetical protein	uni	sce_2320	42.17	FIG01131549: hypothetical protein
SCE1572_5512	hypothetical protein	uni	sce_9928	50.6	PE-PGRS FAMILY PROTEIN
SCE1572_5513	hypothetical protein	-		0	
SCE1572_5514	hypothetical protein	-		0	
SCE1572_5515	Membrane protein involved in colicin uptake-like protein	uni	sce_6493	30.16	Translation initiation factor 2
SCE1572_5516	hypothetical protein	-		0	
SCE1572_5517	conserved protein	uni	sce_9660	41.38	Carboxypeptidase
SCE1572_5518	Peptidase C14, caspase catalytic subunit p20	uni	sce_7720	30.21	serine/threonine protein kinase
SCE1572_5519	hypothetical protein	-		0	
SCE1572_5520	hypothetical protein	-		0	
SCE1572_5521	chaperonin GroEL	uni	sce_3121	29.93	Heat shock protein 60 family chaperone GroEL
SCE1572_5522	hypothetical protein	bi	sce_6361	41.18	FIG01088774: hypothetical protein
SCE1572_5523	hypothetical protein	-		0	
SCE1572_5524	MoxR-like ATPases	uni	sce_7290	45.59	ATPase associated with various cellular activities, AAA_5
SCE1572_5525	putative lipoprotein	uni	sce_582	34.16	hypothetical protein
SCE1572_5526	RND efflux system, membrane fusion protein CmeA	uni	sce_5919	29.9	Probable RND efflux membrane fusion protein
SCE1572_5527	RND efflux system, inner membrane transporter CmeB	uni	sce_5918	30.96	RND multidrug efflux transporter; Acriflavin resistance protein
SCE1572_5528	hypothetical protein	uni	sce_1698	31.09	hypothetical protein
SCE1572_5529	FIG01088312: hypothetical protein	bi	sce_3646	78.95	FIG01088312: hypothetical protein
SCE1572_5530	Permeases of the major facilitator superfamily	uni	sce_3066	57.08	putative sugar transport protein
SCE1572_5531	hypothetical protein	-		0	
SCE1572_5532	hypothetical protein	-		0	
SCE1572_5533	FOG: WD40 repeat	bi	sce_3598	85.2	FOG: WD40 repeat
SCE1572_5534	WD-40 repeat protein	uni	sce_3598	44.62	FOG: WD40 repeat
SCE1572_5535	FOG: WD40 repeat	uni	sce_3598	62.7	FOG: WD40 repeat
SCE1572_5536	FOG: HEAT repeat	bi	sce_3597	77.83	FOG: HEAT repeat
SCE1572_5537	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_3596	94.75	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_5538	Sensor protein of zinc sigma-54-dependent two-component system	bi	sce_3595	93.1	Sensor protein of zinc sigma-54-dependent two-component system
SCE1572_5539	FIG01086618: hypothetical protein	bi	sce_3594	87.15	FIG01086618: hypothetical protein
SCE1572_5540	FIG01085068: hypothetical protein	bi	sce_3593	93.23	FIG01085068: hypothetical protein
SCE1572_5541	hypothetical protein	bi	sce_3592	91.33	hypothetical protein
SCE1572_5542	FIG01086832: hypothetical protein	bi	sce_3590	93.09	FIG01086832: hypothetical protein
SCE1572_5543	hypothetical protein	bi	sce_3589	78.57	hypothetical protein
SCE1572_5544	hypothetical protein	bi	sce_3588	88.86	hypothetical protein
SCE1572_5545	hypothetical protein	-		0	
SCE1572_5546	hypothetical protein	-		0	
SCE1572_5547	hypothetical protein	-		0	
SCE1572_5548	hypothetical protein	-		0	
SCE1572_5549	hypothetical protein	-		0	
SCE1572_5550	hypothetical protein	-		0	
SCE1572_5551	Beta-lactamase class C and other penicillin binding proteins	uni	sce_4328	30.03	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)
SCE1572_5552	hypothetical protein	-		0	
SCE1572_5553	IstB domain protein ATP-binding protein	uni	sce_9803	27.98	Mobile element protein
SCE1572_5554	Cytochrome P450 167A1 (EC 1.14.-.-) (Cytochrome P450epoK) (Epothilone epoxidase)	uni	sce_8803	34.05	putative cytochrome P450 hydroxylase
SCE1572_5555	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_3575	44.49	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_5556	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_4641	43.36	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_5557	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	bi	sce_4641	48.66	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_5558	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_4641	44.01	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_5559	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	-		0	
SCE1572_5560	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_9236	46.97	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_5561	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	bi	sce_4638	47.47	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_5562	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_4639	34.81	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_5563	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_9236	46.09	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_5564	hypothetical protein	-		0	
SCE1572_5565	hypothetical protein	uni	sce_7426	29.26	jmjC domain protein
SCE1572_5566	FIG022199: FAD-binding protein	uni	sce_8175	33.68	FIG022199: FAD-binding protein
SCE1572_5567	hypothetical protein	-		0	
SCE1572_5568	O-methyltransferase, family 2	uni	sce_1355	25.47	O-methyltransferase, family 2
SCE1572_5569	Fatty acid desaturase	uni	sce_5973	30.92	Beta-carotene hydroxylase
SCE1572_5570	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_7637	43.66	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_5571	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_2666	43.5	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_5572	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_2666	43.11	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_5573	diaminobutyrate--2-oxoglutarate aminotransferase	uni	sce_642	26.96	MFS permease

SCE1572_5574	Siderophore biosynthesis diaminobutyrate--2-oxoglutarate aminotransferase (EC 2.6.1.76)	uni	sce_9228	52.47	Pyoverdin biosynthesis protein PvdH, L-2,4-diaminobutyrate:2-oxoglutarate aminotransferase (EC 2.6.1.76)
SCE1572_5575	ISLp1	uni	sce_1675	82.26	ISLp1
SCE1572_5576	hypothetical protein	-		0	
SCE1572_5577	hypothetical protein	-		0	
SCE1572_5578	hypothetical protein	uni	sce_5196	39.24	hypothetical protein
SCE1572_5579	TonB-dependent receptor	bi	sce_4645	78.52	TonB-dependent receptor
SCE1572_5580	FIG01088105: hypothetical protein	bi	sce_4646	80.99	FIG01088105: hypothetical protein
SCE1572_5581	FIG01086505: hypothetical protein	bi	sce_4647	66.72	FIG01086505: hypothetical protein
SCE1572_5582	Glycosyl transferase, group 1 family protein	bi	sce_1162	78.86	Glycosyl transferase, group 1 family protein
SCE1572_5583	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_1161	82.42	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_5584	glycosyl transferase, group 1	bi	sce_1160	84.42	glycosyl transferase, group 1
SCE1572_5585	CBS domain-containing protein	bi	sce_4648	92.34	CBS domain-containing protein
SCE1572_5586	hypothetical protein	bi	sce_4649	46.41	hypothetical protein
SCE1572_5587	PE-PGRS FAMILY PROTEIN	bi	sce_4650	77.64	glycine-rich protein
SCE1572_5588	acetyltransferase, GNAT family	-		0	
SCE1572_5589	ATPase involved in DNA repair	uni	sce_9772	43.62	hypothetical protein
SCE1572_5590	protein kinase	uni	sce_1788	44.09	serine/threonine protein kinase
SCE1572_5591	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	-		0	
SCE1572_5592	D-2-hydroxyglutarate dehydrogenase	bi	sce_4656	95.73	D-2-hydroxyglutarate dehydrogenase
SCE1572_5593	hypothetical protein	-		0	
SCE1572_5594	epoxide hydrolase	bi	sce_4657	83.45	epoxide hydrolase
SCE1572_5595	hypothetical protein	-		0	
SCE1572_5596	Transporter, MFS superfamily	bi	sce_4658	86.49	General substrate transporter:Major facilitator superfamily MFS_1
SCE1572_5597	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)	bi	sce_4660	93.99	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)
SCE1572_5598	DegP protease	bi	sce_4661	86.19	DegP protease
SCE1572_5599	hypothetical protein	uni	sce_5147	88.43	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_5600	Cellulose-binding domain protein	uni	sce_5148	80.71	Cellulose-binding domain protein
SCE1572_5601	TPR domain protein	bi	sce_4665	75.13	TPR domain protein
SCE1572_5602	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_4671	92.57	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_5603	hypothetical protein	-		0	
SCE1572_5604	hypothetical protein	uni	sce_4102	31.63	hypothetical protein
SCE1572_5605	hypothetical protein	-		0	
SCE1572_5606	FIG01085636: hypothetical protein	bi	sce_4684	86.9	FIG01085636: hypothetical protein
SCE1572_5607	Isoflavone reductase homolog P3 (EC 1.3.1.-)	bi	sce_6014	68.14	Isoflavone reductase homolog P3 (EC 1.3.1.-)
SCE1572_5608	hypothetical protein	bi	sce_4685	43.56	FIG01089242: hypothetical protein
SCE1572_5609	serine/threonine protein kinase	bi	sce_4686	83.17	serine/threonine protein kinase
SCE1572_5610	predicted protein	uni	sce_4820	37.18	hypothetical protein
SCE1572_5611	hypothetical protein	uni	sce_7270	31.48	acetyltransferase, GNAT family
SCE1572_5612	hypothetical protein	bi	sce_5882	70.51	hypothetical protein
SCE1572_5613	Collagen triple helix repeat	uni	sce_9583	56.67	Glycoprotein gp2
SCE1572_5614	FIG01087566: hypothetical protein	bi	sce_4701	81.84	FIG01087566: hypothetical protein
SCE1572_5615	conserved hypothetical protein-putative response regulator	uni	sce_10290	32.85	Sensor protein
SCE1572_5616	hypothetical protein	-		0	
SCE1572_5617	RsbR, positive regulator of sigma-B	bi	sce_4702	81.84	RsbR, positive regulator of sigma-B
SCE1572_5618	FIG01085516: hypothetical protein	uni	sce_1454	67.44	FIG01085516: hypothetical protein
SCE1572_5619	Putative heme iron utilization protein	bi	sce_4704	88.6	pyridoxamine 5'-phosphate oxidase-related, FMN-binding
SCE1572_5620	hypothetical protein	uni	sce_4437	37.6	Serine protease precursor
SCE1572_5621	hypothetical protein	uni	sce_4437	39.69	Serine protease precursor
SCE1572_5622	TPR domain/radical SAM/B12 binding domain protein	bi	sce_4705	91.94	TPR domain/radical SAM/B12 binding domain protein
SCE1572_5623	Beta-glucosidase (EC 3.2.1.21)	bi	sce_4706	94.38	Beta-glucosidase (EC 3.2.1.21)
SCE1572_5624	hypothetical protein	uni	sce_3858	35.29	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_5625	hypothetical protein	bi	sce_4707	87.08	hypothetical protein
SCE1572_5626	hypothetical protein	-		0	
SCE1572_5627	Conserved protein, with a weak D-galactarate dehydratase/altronate hydrolase domain	uni	sce_4708	81.89	hypothetical protein
SCE1572_5628	hypothetical protein	bi	sce_4708	93.57	hypothetical protein
SCE1572_5629	Conserved protein, with a weak D-galactarate dehydratase/altronate hydrolase domain	uni	sce_4708	84	hypothetical protein
SCE1572_5630	FIG01087049: hypothetical protein	bi	sce_7538	82.87	FIG01087049: hypothetical protein
SCE1572_5631	Oxidoreductase	uni	sce_3164	43.68	Oxidoreductase
SCE1572_5632	hypothetical protein	-		0	
SCE1572_5633	hypothetical protein	-		0	
SCE1572_5634	FIG00686302: hypothetical protein	-		0	
SCE1572_5635	5-methyltetrahydrofolate--homocysteine methyltransferase (EC 2.1.1.13)	bi	sce_8649	95.08	5-methyltetrahydrofolate--homocysteine methyltransferase (EC 2.1.1.13)
SCE1572_5636	Transcriptional regulator, ArsR family / Methyltransferase fusion	bi	sce_8648	92.09	Transcriptional regulator, ArsR family / Methyltransferase fusion
SCE1572_5637	Threonine dehydrogenase and related Zn-dependent dehydrogenases	bi	sce_4709	92.23	Threonine dehydrogenase and related Zn-dependent dehydrogenases
SCE1572_5638	acetyltransferase (GNAT) family protein	uni	sce_6542	36.92	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)
SCE1572_5639	Cobalt-zinc-cadmium resistance protein	bi	sce_4710	82.47	Cobalt-zinc-cadmium resistance protein
SCE1572_5640	Signal transduction histidine kinase CheA (EC 2.7.3.-)	bi	sce_8602	73.65	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_5641	response regulator/sensory box histidine kinase	bi	sce_1532	62.69	FIG01089498: hypothetical protein
SCE1572_5642	serine/threonine kinase with two-component sensor domain	-		0	
SCE1572_5643	hypothetical protein	-		0	
SCE1572_5644	Serine/threonine kinase with two-component sensor domain	-		0	
SCE1572_5645	Signal transduction histidine kinase CheA (EC 2.7.3.-)	-		0	
SCE1572_5646	hypothetical protein	-		0	
SCE1572_5647	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_5226	51.18	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_5648	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_5746	33.48	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_5649	Phosphoenolpyruvate carboxykinase [GTP] (EC 4.1.1.32)	bi	sce_4711	95.17	Phosphoenolpyruvate carboxykinase [GTP] (EC 4.1.1.32)
SCE1572_5650	hypothetical protein	-		0	
SCE1572_5651	hypothetical protein	-		0	
SCE1572_5652	NADH-ubiquinone oxidoreductase chain M (EC 1.6.5.3)	bi	sce_9774	82.16	NADH-ubiquinone oxidoreductase chain M (EC 1.6.5.3)
SCE1572_5653	NADH-ubiquinone oxidoreductase chain L (EC 1.6.5.3)	bi	sce_9775	82.92	NADH-ubiquinone oxidoreductase chain L (EC 1.6.5.3)
SCE1572_5654	Hypothetical transmembrane protein coupled to NADH-ubiquinone oxidoreductase chain 5 homolog	bi	sce_9776	84.77	Hypothetical transmembrane protein coupled to NADH-ubiquinone oxidoreductase chain 5 homolog
SCE1572_5655	anion transporters (Cl(-), SO4(2-), PO4(3-), etc.)	bi	sce_9777	87.48	anion transporters (Cl(-), SO4(2-), PO4(3-), etc.)
SCE1572_5656	YidE/YbjL duplication	bi	sce_1130	43.09	YidE/YbjL duplication
SCE1572_5657	hypothetical protein	uni	sce_6734	30.65	TOMM biosynthesis dehydrogenase (protein B)
SCE1572_5658	serine/threonine protein kinase	bi	sce_4713	82.84	serine/threonine protein kinase
SCE1572_5659	FIG01085909: hypothetical protein	bi	sce_9663	81.71	FIG01085909: hypothetical protein
SCE1572_5660	FIG01086053: hypothetical protein	bi	sce_10019	83.82	FIG01086053: hypothetical protein
SCE1572_5661	protein containing glyoxalase/bleomycin resistance protein/dioxygenase superfamily domain	-		0	
SCE1572_5662	hypothetical protein	-		0	
SCE1572_5663	FIG01086593: hypothetical protein	bi	sce_4714	76.88	FIG01086593: hypothetical protein
SCE1572_5664	Octaprenyl-diphosphate synthase (EC 2.5.1.-) / Dimethylallyltransferase (EC 2.5.1.1) / Geranyltranstransferase (farnesyldiphos	bi	sce_4715	90.54	Octaprenyl-diphosphate synthase (EC 2.5.1.-) / Dimethylallyltransferase (EC 2.5.1.1) / Geranyltranstransferase (farnesyldiphosphate
SCE1572_5665	Mevalonate kinase (EC 2.7.1.36)	bi	sce_4716	82.03	Mevalonate kinase (EC 2.7.1.36)
SCE1572_5666	Diphosphomevalonate decarboxylase (EC 4.1.1.33)	bi	sce_4717	94.33	Diphosphomevalonate decarboxylase (EC 4.1.1.33)
SCE1572_5667	hypothetical protein	uni	sce_4718	84.87	Phosphomevalonate kinase (EC 2.7.4.2)
SCE1572_5668	phosphomevalonate kinase	bi	sce_4718	89.03	Phosphomevalonate kinase (EC 2.7.4.2)
SCE1572_5669	FIG01087491: hypothetical protein	bi	sce_4719	91.22	FIG01087491: hypothetical protein
SCE1572_5670	hypothetical protein	bi	sce_4720	79.1	hypothetical protein
SCE1572_5671	hypothetical protein	bi	sce_4721	84.15	hypothetical protein
SCE1572_5672	Excinuclease ABC subunit A, dimeric form	-		0	
SCE1572_5673	hypothetical protein	bi	sce_4722	88.05	hypothetical protein
SCE1572_5674	hypothetical protein	-		0	
SCE1572_5675	Aspartate aminotransferase (EC 2.6.1.1) @ Histidinol-phosphate aminotransferase (EC 2.6.1.9)	bi	sce_4727	89.81	Aspartate aminotransferase (EC 2.6.1.1) @ Histidinol-phosphate aminotransferase (EC 2.6.1.9)
SCE1572_5676	FIG01085737: hypothetical protein	bi	sce_4728	76.55	FIG01085737: hypothetical protein
SCE1572_5677	Homeobox protein HB9	bi	sce_4729	82.19	Homeobox protein HB9
SCE1572_5678	NADH-ubiquinone oxidoreductase chain N (EC 1.6.5.3)	bi	sce_4730	96.65	NADH-ubiquinone oxidoreductase chain N (EC 1.6.5.3)
SCE1572_5679	NADH-ubiquinone oxidoreductase chain M (EC 1.6.5.3)	bi	sce_4731	91.46	NADH-ubiquinone oxidoreductase chain M (EC 1.6.5.3)
SCE1572_5680	NADH-ubiquinone oxidoreductase chain L (EC 1.6.5.3)	bi	sce_4732	93.33	NADH-ubiquinone oxidoreductase chain L (EC 1.6.5.3)
SCE1572_5681	NADH-ubiquinone oxidoreductase chain K (EC 1.6.5.3)	bi	sce_4733	97.09	NADH-ubiquinone oxidoreductase chain K (EC 1.6.5.3)
SCE1572_5682	NADH-ubiquinone oxidoreductase chain J (EC 1.6.5.3)	bi	sce_4734	85.39	NADH-ubiquinone oxidoreductase chain J (EC 1.6.5.3)
SCE1572_5683	NADH-ubiquinone oxidoreductase chain F (EC 1.6.5.3)	bi	sce_4735	96.89	NADH-ubiquinone oxidoreductase chain F (EC 1.6.5.3)
SCE1572_5684	NADH-ubiquinone oxidoreductase chain E (EC 1.6.5.3)	bi	sce_4736	92.12	NADH-ubiquinone oxidoreductase chain E (EC 1.6.5.3)
SCE1572_5685	annexin VII	bi	sce_4738	79.05	PE-PGRS virulence associated protein
SCE1572_5686	hypothetical protein	bi	sce_4739	84.13	hypothetical protein
SCE1572_5687	hypothetical protein	-		0	
SCE1572_5688	hemerythrin HHE cation binding region	bi	sce_4740	94.15	hemerythrin HHE cation binding region
SCE1572_5689	serine/threonine protein kinase	bi	sce_4741	91.39	serine/threonine protein kinase
SCE1572_5690	exonuclease	bi	sce_4742	91.3	Exonuclease
SCE1572_5691	hypothetical protein	bi	sce_4743	77.44	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_5692	Transport ATP-binding protein CydC	bi	sce_4744	88.98	hypothetical protein
SCE1572_5693	2-hydroxy-3-oxopropionate reductase (EC 1.1.1.60)	bi	sce_4745	78.6	HAD-superfamily hydrolase, subfamily IA, variant 3
SCE1572_5694	hypothetical protein	bi	sce_4746	84.73	Gll1843 protein
SCE1572_5695	hypothetical protein	bi	sce_9269	47.17	hypothetical protein
SCE1572_5696	hypothetical protein	uni	sce_4746	43.53	Gll1843 protein
SCE1572_5697	Isoleucyl-tRNA synthetase (EC 6.1.1.5)	bi	sce_4750	90.78	Isoleucyl-tRNA synthetase (EC 6.1.1.5)
SCE1572_5698	FIG01085270: hypothetical protein	uni	sce_4751	89.34	hypothetical protein
SCE1572_5699	hypothetical protein	bi	sce_4751	90.36	hypothetical protein
SCE1572_5700	Thiamin-phosphate pyrophosphorylase (EC 2.5.1.3)	bi	sce_4752	94.09	Thiamin-phosphate pyrophosphorylase (EC 2.5.1.3)
SCE1572_5701	FIG01086571: hypothetical protein	bi	sce_4753	77.39	FIG01086571: hypothetical protein
SCE1572_5702	Glycosyl transferase, group 1 family protein	bi	sce_4754	83.96	Glycosyl transferase, group 1 family protein
SCE1572_5703	Glycosyl transferase, group 1	bi	sce_4755	91.23	putative glycosyl transferase
SCE1572_5704	Thiazole biosynthesis protein ThiG	bi	sce_4756	97.69	Thiazole biosynthesis protein ThiG
SCE1572_5705	FIG01085173: hypothetical protein	bi	sce_4757	81.96	FIG01085173: hypothetical protein
SCE1572_5706	hypothetical protein	bi	sce_4758	71.08	Membrane type-3 matrix metalloproteinase
SCE1572_5707	Ribonuclease D (EC 3.1.26.3)	bi	sce_4759	83.29	Ribonuclease D (EC 3.1.26.3)
SCE1572_5708	Potassium efflux system KefA protein / Small-conductance mechanosensitive channel	bi	sce_4761	85.21	Potassium efflux system KefA protein / Small-conductance mechanosensitive channel
SCE1572_5709	Twitching motility protein PilT	bi	sce_4762	92.29	Twitching motility protein PilT
SCE1572_5710	hypothetical protein	bi	sce_4763	67.69	hypothetical protein
SCE1572_5711	Thiamin biosynthesis protein ThiC	bi	sce_4764	97.2	Thiamin biosynthesis protein ThiC
SCE1572_5712	Biopolymer transport protein ExbD/TolR	bi	sce_4765	92.47	Biopolymer transport protein ExbD/TolR
SCE1572_5713	Biopolymer transport protein ExbD/TolR	bi	sce_4766	93.48	Biopolymer transport protein ExbD/TolR
SCE1572_5714	MotA/TolQ/ExbB proton channel family protein	bi	sce_4767	89.92	MotA/TolQ/ExbB proton channel family protein
SCE1572_5715	Ferric siderophore transport system, periplasmic binding protein TonB	bi	sce_4768	84.77	Ferric siderophore transport system, periplasmic binding protein TonB
SCE1572_5716	TonB-dependent receptor	bi	sce_4769	79.17	TonB-dependent receptor
SCE1572_5717	FIG01086900: hypothetical protein	uni	sce_881	68.52	Collagen triple helix repeat
SCE1572_5718	FIG01088815: hypothetical protein	bi	sce_4771	83.53	FIG01088815: hypothetical protein
SCE1572_5719	hypothetical protein	bi	sce_4772	90.5	hypothetical protein
SCE1572_5720	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_4773	96.79	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_5721	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)	bi	sce_4774	97.08	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)
SCE1572_5722	Muramoyltetrapeptide carboxypeptidase (EC 3.4.17.13)	bi	sce_4775	90.55	Muramoyltetrapeptide carboxypeptidase (EC 3.4.17.13)
SCE1572_5723	PE-PGRS family protein	uni	sce_6814	60.26	PE-PGRS FAMILY PROTEIN
SCE1572_5724	PE-PGRS FAMILY PROTEIN	uni	sce_9483	72.71	FIG01086339: hypothetical protein
SCE1572_5725	FIG01089478: hypothetical protein	bi	sce_9482	77.46	hypothetical protein
SCE1572_5726	Adventurous gliding motility protein K	bi	sce_4776	80.66	Adventurous gliding motility protein K
SCE1572_5727	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_4778	85.32	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_5728	hypothetical protein	bi	sce_4779	66.76	FIG01089119: hypothetical protein
SCE1572_5729	Putative hydroxyproline-rich glycoprotein	bi	sce_4780	67.57	Putative hydroxyproline-rich glycoprotein
SCE1572_5730	hypothetical protein	-		0	
SCE1572_5731	hypothetical protein	bi	sce_4781	86.27	hypothetical protein
SCE1572_5732	hypothetical protein	bi	sce_4782	80.48	hypothetical protein
SCE1572_5733	hypothetical protein	bi	sce_4783	83.38	hypothetical protein
SCE1572_5734	Dihydroorotase (EC 3.5.2.3)	bi	sce_4784	93.89	Dihydroorotase (EC 3.5.2.3)
SCE1572_5735	Ribosomal protein S12p Asp88 (E. coli) methylthiotransferase	bi	sce_4785	95.29	Ribosomal protein S12p Asp88 (E. coli) methylthiotransferase
SCE1572_5736	hypothetical protein	bi	sce_4786	90.15	hypothetical protein
SCE1572_5737	Type IV pilin PilA	bi	sce_4788	74.89	Type IV pilin PilA

SCE1572_5738	Type IV pilin PilA	bi	sce_4789	70.42	Type IV pilin PilA	
SCE1572_5739	Type IV pilin PilA	bi	sce_4790	70.1	Type IV pilin PilA	
SCE1572_5740	hypothetical protein	bi	sce_4791	95.76	hypothetical protein	
SCE1572_5741	hypothetical protein	bi	sce_4792	86.59	hypothetical protein	
SCE1572_5742	FIG01085470: hypothetical protein	bi	sce_4793	75.79	FIG01085470: hypothetical protein	
SCE1572_5743	PE-PGRS family protein	uni	sce_8647	40.26	Arylsulfatase (EC 3.1.6.1)	
SCE1572_5744	XL-ALEX protein	bi	sce_4794	88.26	XL-ALEX protein	
SCE1572_5745	Aspartyl-tRNA(Asn) amidotransferase subunit C (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit C (EC 6.3.5.7	bi	sce_4795	99.03	Aspartyl-tRNA(Asn) amidotransferase subunit C (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit C (EC 6.3.5.7)	
SCE1572_5746	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7	bi	sce_4796	93.98	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)	
SCE1572_5747	Histone acetyltransferase HPA2 and related acetyltransferases	bi	sce_4797	88.89	Histone acetyltransferase HPA2 and related acetyltransferases	
SCE1572_5748	NAD dependent epimerase/dehydratase family	bi	sce_4798	86.1	NAD dependent epimerase/dehydratase family	
SCE1572_5749	acyltransferase family protein	bi	sce_4799	85.81	acyltransferase family protein	
SCE1572_5750	tRNA pseudouridine synthase B (EC 4.2.1.70)	bi	sce_4800	71.63	tRNA pseudouridine synthase B (EC 4.2.1.70)	
SCE1572_5751	Magnesium and cobalt efflux protein CorC	bi	sce_4801	96.98	Magnesium and cobalt efflux protein CorC	
SCE1572_5752	Protein diaphanous homolog 2 (Diaphanous-related formin-2) (DRF2) (mDia3)	bi	sce_4803	85.37	Protein diaphanous homolog 2 (Diaphanous-related formin-2) (DRF2) (mDia3)	
SCE1572_5753	hypothetical protein	-		0		
SCE1572_5754	Alpha/beta hydrolase fold-1	bi	sce_4805	83.22	Alpha/beta hydrolase fold-1	
SCE1572_5755	Transcription accessory protein (S1 RNA-binding domain)	bi	sce_4806	93.77	Transcription accessory protein (S1 RNA-binding domain)	
SCE1572_5756	hypothetical protein	uni	sce_4012	36.13	FIG01089186: hypothetical protein	
SCE1572_5757	FIG00559100: hypothetical protein	uni	sce_1878	41.32	FIG01087871: hypothetical protein	
SCE1572_5758	hypothetical protein	-		0		
SCE1572_5759	Imidazolonepropionase (EC 3.5.2.7)	bi	sce_4807	92.94	Imidazolonepropionase (EC 3.5.2.7)	
SCE1572_5760	Beta-hexosaminidase (EC 3.2.1.52)	bi	sce_4808	86.52	Beta-hexosaminidase (EC 3.2.1.52)	
SCE1572_5761	Alcohol dehydrogenase (EC 1.1.1.1)	bi	sce_4809	83.09	Alcohol dehydrogenase (EC 1.1.1.1)	
SCE1572_5762	putative membrane protein	bi	sce_4810	88.71	conserved hypothetical membrane protein	
SCE1572_5763	hypothetical protein	-		0		
SCE1572_5764	FIG01088840: hypothetical protein	bi	sce_4811	81.15	FIG01088840: hypothetical protein	
SCE1572_5765	Type IV fimbrial assembly, ATPase PilB	bi	sce_4812	93.18	Type IV fimbrial assembly, ATPase PilB	
SCE1572_5766	Beta-glucosidase (EC 3.2.1.21)	bi	sce_4813	92.44	Beta-glucosidase (EC 3.2.1.21)	
SCE1572_5767	Oligopeptide/dipeptide ABC transporter, ATP-binding protein-like	bi	sce_4814	93.71	Oligopeptide/dipeptide ABC transporter, ATP-binding protein-like	
SCE1572_5768	Oligopeptide transport ATP-binding protein OppD (TC 3.A.1.5.1)	bi	sce_4815	94.69	Oligopeptide transport ATP-binding protein OppD (TC 3.A.1.5.1)	
SCE1572_5769	(GlcNAc)2 ABC transporter, permease component 1	bi	sce_4816	94.46	(GlcNAc)2 ABC transporter, permease component 1	
SCE1572_5770	Oligopeptide ABC transporter, periplasmic oligopeptide-binding protein OppA (TC 3.A.1.5.1)	bi	sce_4817	92.52	Oligopeptide ABC transporter, periplasmic oligopeptide-binding protein OppA (TC 3.A.1.5.1)	
SCE1572_5771	hypothetical protein	-		0		
SCE1572_5772	FIG01086557: hypothetical protein	bi	sce_4818	74.93	FIG01086557: hypothetical protein	
SCE1572_5773	hypothetical protein	-		0		
SCE1572_5774	hypothetical protein	uni	sce_3989	47.56	(MTV044.05), len: 923. Unknown glycine richprotein, similar to other PGRS-type sequences e.g. gp|AL0091|MTV004_1M. tubercu	
SCE1572_5775	NAD-specific glutamate dehydrogenase (EC 1.4.1.2)	bi	sce_4821	95.71	NAD-specific glutamate dehydrogenase (EC 1.4.1.2)	
SCE1572_5776	Acetoacetate metabolism regulatory protein atoC (Ornithine/arginine decarboxylase inhibitor) (Ornithine decarboxylase antizy	bi	sce_4822	89.74	Acetoacetate metabolism regulatory protein atoC (Ornithine/arginine decarboxylase inhibitor) (Ornithine decarboxylase antizyme)	
SCE1572_5777	hypothetical protein	bi	sce_4823	95.19	hypothetical protein	
SCE1572_5778	short-chain dehydrogenase/reductase SDR	bi	sce_4824	91.35	putative oxidoreductase	
SCE1572_5779	Response regulator receiver:ATP-binding region, ATPase-like:Histidine kinase, HAMP region:Histidine kinase A, N-terminal:	bi	sce_4825	55.56	Response regulator receiver:ATP-binding region, ATPase-like:Histidine kinase, HAMP region:Histidine kinase A, N-terminal:Hpt p	
SCE1572_5780	FIG01089017: hypothetical protein	bi	sce_4826	95.02	FIG01089017: hypothetical protein	
SCE1572_5781	HAD superfamily (subfamily IG) hydrolase, 5'-nucleotidase(EC:3.1.3.5)	bi	sce_4827	95.57	HAD superfamily (subfamily IG) hydrolase, 5'-nucleotidase(EC:3.1.3.5)	
SCE1572_5782	hypothetical protein	bi	sce_4828	73.53	hypothetical protein	
SCE1572_5783	tRNA pseudouridine 13 synthase (EC 4.2.1.-)	bi	sce_4830	83.85	tRNA pseudouridine 13 synthase (EC 4.2.1.-)	
SCE1572_5784	MotA/TolQ/ExbB proton channel family protein	bi	sce_4831	92.94	MotA/TolQ/ExbB proton channel family protein	
SCE1572_5785	Biopolymer transport protein ExbD/TolR	bi	sce_4832	95.21	Biopolymer transport protein ExbD/TolR	
SCE1572_5786	Ferric siderophore transport system, periplasmic binding protein TonB	bi	sce_4833	83.87	Ferric siderophore transport system, periplasmic binding protein TonB	
SCE1572_5787	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	bi	sce_4834	98.73	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	
SCE1572_5788	FIG01086310: hypothetical protein	bi	sce_4835	89.04	FIG01086310: hypothetical protein	
SCE1572_5789	Amidophosphoribosyltransferase (EC 2.4.2.14)	bi	sce_4836	93.95	Amidophosphoribosyltransferase (EC 2.4.2.14)	
SCE1572_5790	Hydroxymethylglutaryl-CoA lyase (EC 4.1.3.4)	bi	sce_4837	94.48	Hydroxymethylglutaryl-CoA lyase (EC 4.1.3.4)	
SCE1572_5791	RTX toxins and related Ca2温□ proteins	bi	sce_4838	84.2	RTX toxins and related Ca2温□ proteins	
SCE1572_5792	FIG01088196: hypothetical protein	bi	sce_4839	86.89	FIG01088196: hypothetical protein	
SCE1572_5793	EsV-1-144	bi	sce_4840	83.13	EsV-1-144	
SCE1572_5794	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)	bi	sce_4841	91.39	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)	
SCE1572_5795	DUF192 precursor	bi	sce_4842	74.7	DUF192 precursor	
SCE1572_5796	Metal-dependent hydrolases of the beta-lactamase superfamily I	bi	sce_4843	89.05	Metal-dependent hydrolases of the beta-lactamase superfamily I	
SCE1572_5797	Flagellar hook-length control protein FliK	bi	sce_4844	81.17	hypothetical protein	
SCE1572_5798	hypothetical protein	bi	sce_4846	72.97	protein kinase domain protein	
SCE1572_5799	FIG01088183: hypothetical protein	bi	sce_4847	93.98	FIG01088183: hypothetical protein	
SCE1572_5800	serine/threonine protein kinase	bi	sce_4848	85.63	serine/threonine protein kinase	
SCE1572_5801	Rubisco activation protein CbbO	bi	sce_4849	82.61	hypothetical protein	
SCE1572_5802	gnl|WGS:AAAB|agCP13423|gb|EAA06237	bi	sce_4850	72.91	gnl|WGS:AAAB|agCP13423|gb|EAA06237	
SCE1572_5803	Very large tegument protein	bi	sce_4851	79.34	Very large tegument protein	
SCE1572_5804	LigA	bi	sce_4852	60.55	FIG01088333: hypothetical protein	
SCE1572_5805	hypothetical protein	-		0		
SCE1572_5806	FIG01089709: hypothetical protein	bi	sce_4854	93.33	FIG01089709: hypothetical protein	
SCE1572_5807	hypothetical protein-transmembrane prediction	bi	sce_4855	81.22	hypothetical protein-transmembrane prediction	
SCE1572_5808	serine/threonine protein kinase	bi	sce_4856	83.41	serine/threonine protein kinase	
SCE1572_5809	serine/threonine protein kinase	bi	sce_4857	83.59	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	
SCE1572_5810	FIG01085198: hypothetical protein	bi	sce_4858	61.75	FIG01085198: hypothetical protein	
SCE1572_5811	Formate hydrogenlyase subunit 2	bi	sce_4859	86.73	Formate hydrogenlyase subunit 2	
SCE1572_5812	FIG01087767: hypothetical protein	bi	sce_4861	67.43	FIG01087767: hypothetical protein	
SCE1572_5813	Uncharacterized PE-PGRS family protein PE_PGRS54 precursor	bi	sce_4862	68.62	Uncharacterized PE-PGRS family protein PE_PGRS54 precursor	
SCE1572_5814	Thioredoxin reductase (EC 1.8.1.9)	bi	sce_4863	77.56	Thioredoxin reductase (EC 1.8.1.9)	
SCE1572_5815	hypothetical protein	bi	sce_4864	87.67	von Willebrand factor type A domain protein	
SCE1572_5816	FIG004453: protein YceG like	bi	sce_4865	88.6	FIG004453: protein YceG like	
SCE1572_5817	hypothetical protein	-		0		
SCE1572_5818	FIG01088755: hypothetical protein	bi	sce_9910	67.89	FIG01088755: hypothetical protein	
SCE1572_5819	FIG01086239: hypothetical protein	uni	sce_10366	54.93	FIG01086239: hypothetical protein	
SCE1572_5820	hypothetical protein	uni	sce_9503	72.27	hypothetical protein	
SCE1572_5821	hypothetical protein	uni	sce_10364	79.55	hypothetical protein	
SCE1572_5822	hypothetical protein	-		0		
SCE1572_5823	Dihydrolipoamide succinyltransferase component (E2) of 2-oxoglutarate dehydrogenase complex (EC 2.3.1.61) / 2-oxoglutarat	bi	sce_4866	74.89	Dihydrolipoamide succinyltransferase component (E2) of 2-oxoglutarate dehydrogenase complex (EC 2.3.1.61) / 2-oxoglutarate deh	
SCE1572_5824	FIG01086453: hypothetical protein	uni	sce_2384	64.1	FIG01086453: hypothetical protein	
SCE1572_5825	sodium/hydrogen exchanger	bi	sce_4867	88.13	transporter, monovalent cation:proton antiporter-2 (CPA2) family	
SCE1572_5826	Na()/H() antiporter, homolog	bi	sce_4868	91.08	hypothetical protein	
SCE1572_5827	hypothetical protein	bi	sce_4869	75.07		24
SCE1572_5828	Glucokinase (EC 2.7.1.2)	bi	sce_4870	87.77	Glucokinase (EC 2.7.1.2)	
SCE1572_5829	two-component hybrid sensor and regulator	uni	sce_1532	38.24	FIG01089498: hypothetical protein	
SCE1572_5830	5-methyltetrahydrofolate--homocysteine methyltransferase (EC 2.1.1.13)	uni	sce_4506	35.09	FIG01088504: hypothetical protein	
SCE1572_5831	6-phosphogluconolactonase (EC 3.1.1.31), eukaryotic type	bi	sce_4872	89.63	6-phosphogluconolactonase (EC 3.1.1.31), eukaryotic type	
SCE1572_5832	Putative glucose 6-phosphate dehydrogenase effector OpcA	bi	sce_4873	92.63	Putative glucose 6-phosphate dehydrogenase effector OpcA	
SCE1572_5833	Glucose-6-phosphate 1-dehydrogenase (EC 1.1.1.49)	bi	sce_4874	94.25	Glucose-6-phosphate 1-dehydrogenase (EC 1.1.1.49)	
SCE1572_5834	hypothetical protein	bi	sce_4875	92.47	hypothetical protein	
SCE1572_5835	Flagellar hook-length control protein FliK	bi	sce_4876	92.89	Flagellar hook-length control protein FliK	
SCE1572_5836	hypothetical protein	-		0		
SCE1572_5837	serine/threonine protein kinase	bi	sce_4878	88.43	serine/threonine protein kinase	
SCE1572_5838	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)	bi	sce_4879	87.08	1-acyl-sn-glycerol-3-phosphate acyltransferase (EC 2.3.1.51)	
SCE1572_5839	serine/threonine protein kinase	uni	sce_1787	37.62	FIG01086365: hypothetical protein	
SCE1572_5840	hypothetical protein	uni	sce_6133	23.77	Twin-arginine translocation protein TatB	
SCE1572_5841	hypothetical protein	uni	sce_1797	41.32	Cell division protein FtsK	
SCE1572_5842	FIG01087277: hypothetical protein	uni	sce_1798	55.89	FIG01087277: hypothetical protein	
SCE1572_5843	hypothetical protein	-		0		
SCE1572_5844	hypothetical protein	-		0		
SCE1572_5845	hypothetical protein	uni	sce_6361	34.25	FIG01088774: hypothetical protein	
SCE1572_5846	COG0457: FOG: TPR repeat	uni	sce_5129	27.26	serine/threonine protein kinase	
SCE1572_5847	hypothetical protein	uni	sce_7913	24.29	serine/threonine protein kinase	
SCE1572_5848	hypothetical protein	-		0		
SCE1572_5849	FIG01085594: hypothetical protein	bi	sce_1502	80.42	FIG01085594: hypothetical protein	
SCE1572_5850	hypothetical protein	uni	sce_160	60.98	hypothetical protein	
SCE1572_5851	hypothetical protein	-		0		
SCE1572_5852	hypothetical protein	-		0		
SCE1572_5853	hypothetical protein	bi	sce_2040	38.32	hypothetical protein	
SCE1572_5854	hypothetical protein	bi	sce_7025	72.73	hypothetical protein	
SCE1572_5855	FIG01087636: hypothetical protein	bi	sce_3173	70.49	hypothetical protein	
SCE1572_5856	hypothetical protein	uni	sce_7299	52.63	hypothetical protein	
SCE1572_5857	hypothetical protein	-		0		
SCE1572_5858	hypothetical protein	-		0		
SCE1572_5859	hypothetical protein	uni	sce_2602	29.69	Membrane alanine aminopeptidase N (EC 3.4.11.2)	
SCE1572_5860	hypothetical protein	-		0		
SCE1572_5861	Internalin A (LPXTG motif)	uni	sce_7314	38.16	Leucine-rich repeat	
SCE1572_5862	phosphorylase	uni	sce_3976	44.74	TPR repeat	
SCE1572_5863	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_7642	42.67	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	
SCE1572_5864	hypothetical protein	-		0		
SCE1572_5865	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_3830	33.85	Phosphate regulon sensor protein PhoR (SphS) (EC 2.7.13.3)	
SCE1572_5866	Response regulator of zinc sigma-54-dependent two-component system	uni	sce_1923	41.23	Response regulator of zinc sigma-54-dependent two-component system	
SCE1572_5867	Chemotaxis response regulator protein-glutamate methylesterase CheB (EC 3.1.1.61)	uni	sce_4700	31.96	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	
SCE1572_5868	Gll0726 protein	bi	sce_4880	87.24	Gll0726 protein	
SCE1572_5869	FIG01086583: hypothetical protein	bi	sce_4881	77.54	FIG01086583: hypothetical protein	
SCE1572_5870	hypothetical protein, INTERPRO-suggestion: probable ferritin-like	bi	sce_4882	76.8	conserved hypothetical protein	
SCE1572_5871	Dipeptidyl peptidase IV	bi	sce_4883	85.99	Dipeptidyl peptidase IV	
SCE1572_5872	Helicase, C-terminal:DEAD/DEAH box helicase, N-terminal	bi	sce_4885	93.19	Helicase, C-terminal:DEAD/DEAH box helicase, N-terminal	
SCE1572_5873	Multi-sensor Hybrid Histidine Kinase	bi	sce_4887	74.95	Multi-sensor Hybrid Histidine Kinase	
SCE1572_5874	Rhodanese-related sulfurtransferase	bi	sce_4888	87.96	Rhodanese-related sulfurtransferase	
SCE1572_5875	hypothetical protein	bi	sce_4889	90.65	hypothetical protein	
SCE1572_5876	serine/threonine protein kinase	bi	sce_4890	52.05	serine/threonine protein kinase	
SCE1572_5877	hypothetical protein	-		0		
SCE1572_5878	Ssl5025 protein	uni	sce_3858	29.87	Adenosylhomocysteinase (EC 3.3.1.1)	
SCE1572_5879	putative exported protein of unknown function with OmpA family domain	bi	sce_4891	74.2	hypothetical protein	
SCE1572_5880	hypothetical protein	-		0		
SCE1572_5881	two-component signal transduction histidine kinase	-		0		
SCE1572_5882	response regulator of the LytR/AlgR family	uni	sce_4465	40.83	RsbR, positive regulator of sigma-B	
SCE1572_5883	Transcriptional regulator, MarR family	bi	sce_7152	87.97	Transcriptional regulator, MarR family	
SCE1572_5884	putative flavodoxin monooxygenase	bi	sce_7151	90.3	putative flavodoxin monooxygenase	
SCE1572_5885	FIG01087506: hypothetical protein	uni	sce_6785	52.24	FIG01087506: hypothetical protein	
SCE1572_5886	erythrocyte membrane protein 1 (PfEMP1)	uni	sce_1146	38.6	Gll0645 protein	
SCE1572_5887	NADH pyrophosphatase (EC 3.6.1.22)	bi	sce_4892	89.93	NADH pyrophosphatase (EC 3.6.1.22)	
SCE1572_5888	hypothetical protein	-		0		
SCE1572_5889	hypothetical protein	bi	sce_4893	41.3	FIG00501228: hypothetical protein	
SCE1572_5890	MATE efflux family protein	bi	sce_4895	84.36	MATE efflux family protein	
SCE1572_5891	hypothetical protein	-		0		
SCE1572_5892	hypothetical protein	-		0		
SCE1572_5893	UPF0135 protein Bsu YqfO @ Bsu YqfO NIF3/CutA domain	bi	sce_4896	91.78	UPF0135 protein Bsu YqfO @ Bsu YqfO NIF3/CutA domain	
SCE1572_5894	mosc domain protein	bi	sce_7535	93.33	hypothetical protein	
SCE1572_5895	protein containing QXW lectin repeats	bi	sce_7536	87.8	Putative secretion accessory protein EsaA/YueB	
SCE1572_5896	glycosyl hydrolase, BNR repeat-containing protein	bi	sce_7537	89.39	Glycosyl hydrolase, BNR repeat precursor	
SCE1572_5897	FIG00660906: hypothetical protein	uni	sce_926	35.24	hypothetical protein	
SCE1572_5898	FIG01089542: hypothetical protein	bi	sce_4908	82.69	FIG01089542: hypothetical protein	
SCE1572_5899	ATP-dependent Clp protease proteolytic subunit (EC 3.4.21.92)	bi	sce_2489	90.72	ATP-dependent Clp protease proteolytic subunit (EC 3.4.21.92)	
SCE1572_5900	Transcriptional regulator, AraC family	bi	sce_2490	84.84	Transcriptional regulator, AraC family	
SCE1572_5901	hypothetical protein	-		0		

SCE1572_5902	TonB-dependent receptor	uni	sce_3939	31.72	FIG01085109: hypothetical protein
SCE1572_5903	hypothetical protein	uni	sce_4330	42.86	FIG01089660: hypothetical protein
SCE1572_5904	hypothetical protein	uni	sce_3993	30	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_5905	hypothetical protein	-		0	
SCE1572_5906	Glycogen phosphorylase (EC 2.4.1.1)	bi	sce_4909	94.84	Glycogen phosphorylase (EC 2.4.1.1)
SCE1572_5907	ATP-dependent Clp protease adaptor protein ClpS	bi	sce_4911	99.07	ATP-dependent Clp protease adaptor protein ClpS
SCE1572_5908	ATP-dependent Clp protease ATP-binding subunit ClpA	bi	sce_4912	94.47	ATP-dependent Clp protease ATP-binding subunit ClpA
SCE1572_5909	ApaG protein	bi	sce_4913	97.64	ApaG protein
SCE1572_5910	rhomboid family protein	bi	sce_4914	86.57	rhomboid family protein
SCE1572_5911	FIG01087968: hypothetical protein	bi	sce_4915	88.37	FIG01087968: hypothetical protein
SCE1572_5912	hypothetical protein	bi	sce_4916	84.29	hypothetical protein
SCE1572_5913	pyridoxal phosphate-dependent deaminase, putative	bi	sce_4917	88.63	pyridoxal phosphate-dependent deaminase, putative
SCE1572_5914	hypothetical protein	bi	sce_4918	92.99	hypothetical protein
SCE1572_5915	Phosphoserine aminotransferase (EC 2.6.1.52)	bi	sce_4919	95.56	Phosphoserine aminotransferase (EC 2.6.1.52)
SCE1572_5916	hypothetical protein	bi	sce_4920	96.08	hypothetical protein
SCE1572_5917	Beta-carotene hydroxylase	bi	sce_4921	96.17	Beta-carotene hydroxylase
SCE1572_5918	hypothetical protein	-		0	
SCE1572_5919	Agmatinase (EC 3.5.3.11)	bi	sce_4923	91.04	Agmatinase (EC 3.5.3.11)
SCE1572_5920	Aspartyl aminopeptidase	bi	sce_4924	91.96	Aspartyl aminopeptidase
SCE1572_5921	hypothetical protein	-		0	
SCE1572_5922	Dihydroorotate dehydrogenase (EC 1.3.3.1)	bi	sce_4925	91.29	Dihydroorotate dehydrogenase (EC 1.3.3.1)
SCE1572_5923	COGs COG3146	bi	sce_4926	89.38	COGs COG3146
SCE1572_5924	FIG01089566: hypothetical protein	bi	sce_4927	77.87	FIG01089566: hypothetical protein
SCE1572_5925	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_4928	94.91	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_5926	Cellulose-binding domain protein	bi	sce_4929	88.35	Cellulose-binding domain protein
SCE1572_5927	FIG01087019: hypothetical protein	bi	sce_4930	89.39	FIG01087019: hypothetical protein
SCE1572_5928	Transcriptional regulatory protein prrA	bi	sce_6137	51.38	Transcriptional regulatory protein prrA
SCE1572_5929	Sensor protein	bi	sce_6138	40.75	sensory box histidine kinase
SCE1572_5930	hypothetical protein	-		0	
SCE1572_5931	Multimodular transpeptidase-transglycosylase (EC 2.4.1.129) (EC 3.4.-.-)	bi	sce_4931	85.43	Multimodular transpeptidase-transglycosylase (EC 2.4.1.129) (EC 3.4.-.-)
SCE1572_5932	Large extracellular alpha-helical protein	bi	sce_4932	87.73	Large extracellular alpha-helical protein
SCE1572_5933	Signal transduction histidine kinase	uni	sce_815	34.6	Sensor protein
SCE1572_5934	regulatory protein, LuxR:Response regulator receiver	uni	sce_3234	37.98	Type IV fimbriae expression regulatory protein PilR
SCE1572_5935	hypothetical protein	uni	sce_2128	52.24	hypothetical protein
SCE1572_5936	Conserved domain protein	uni	sce_2126	60.12	Conserved domain protein
SCE1572_5937	Tetratricopeptide repeat-containing protein	uni	sce_7678	41.35	transcriptional regulator, winged helix family
SCE1572_5938	hypothetical protein	-		0	
SCE1572_5939	hypothetical protein	uni	sce_2128	47.66	hypothetical protein
SCE1572_5940	hypothetical protein	uni	sce_1870	26.46	FIG01088242: hypothetical protein
SCE1572_5941	hypothetical protein	-		0	
SCE1572_5942	ErfK/YbiS/YcfS/YnhG family	uni	sce_9660	48.24	Carboxypeptidase
SCE1572_5943	hypothetical protein	uni	sce_6493	38.6	Translation initiation factor 2
SCE1572_5944	hypothetical protein	bi	sce_2045	50	Mlr6568 protein
SCE1572_5945	hypothetical protein	uni	sce_9495	28.7	hypothetical protein
SCE1572_5946	hypothetical protein	-		0	
SCE1572_5947	hypothetical protein	-		0	
SCE1572_5948	Phage tail fibers	-		0	
SCE1572_5949	hypothetical protein	-		0	
SCE1572_5950	hypothetical protein	-		0	
SCE1572_5951	GPW/gp25 family protein	-		0	
SCE1572_5952	hypothetical protein	-		0	
SCE1572_5953	Rhs element Vgr protein	uni	sce_2329	27.72	VgrG protein
SCE1572_5954	hypothetical protein	-		0	
SCE1572_5955	hypothetical protein	-		0	
SCE1572_5956	hypothetical protein	-		0	
SCE1572_5957	hypothetical protein	-		0	
SCE1572_5958	Afp1	-		0	
SCE1572_5959	Phage tail sheath protein FI	uni	sce_2319	36.28	Phage tail sheath protein FI
SCE1572_5960	hypothetical protein	-		0	
SCE1572_5961	hypothetical protein	-		0	
SCE1572_5962	hypothetical protein	-		0	
SCE1572_5963	Cell division protein FtsH (EC 3.4.24.-)	bi	sce_2324	47.04	ATPase, AAA family
SCE1572_5964	hypothetical protein	-		0	
SCE1572_5965	hypothetical protein	-		0	
SCE1572_5966	hypothetical protein	uni	sce_3858	28.24	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_5967	WD-40 repeat protein	uni	sce_5086	52.19	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins
SCE1572_5968	serine/threonine protein kinase	uni	sce_3991	35.61	serine/threonine protein kinase
SCE1572_5969	S-layer-like array protein	uni	sce_8317	36.77	FIG01085807: hypothetical protein
SCE1572_5970	hypothetical protein	-		0	
SCE1572_5971	hypothetical protein	-		0	
SCE1572_5972	hypothetical protein	-		0	
SCE1572_5973	FIG01088786: hypothetical protein	bi	sce_4934	74.09	FIG01088786: hypothetical protein
SCE1572_5974	hypothetical protein	-		0	
SCE1572_5975	ABC transporter permease protein	bi	sce_4935	84.41	ABC transporter permease protein
SCE1572_5976	ABC transporter permease protein	bi	sce_4936	94.84	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_5977	Isochorismatase (EC 3.3.2.1)	bi	sce_4937	94.78	Isochorismatase (EC 3.3.2.1)
SCE1572_5978	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)	bi	sce_4938	86.69	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)
SCE1572_5979	Nicotinamidase/isochorismatase family protein	bi	sce_4939	91.52	Nicotinamidase/isochorismatase family protein
SCE1572_5980	Bmp family protein	bi	sce_4941	87.03	Bmp family protein
SCE1572_5981	hypothetical protein	bi	sce_4942	86.41	hypothetical protein
SCE1572_5982	hypothetical protein	-		0	
SCE1572_5983	putative lipoprotein	bi	sce_2441	42.65	hypothetical protein
SCE1572_5984	Phospholipase A1	uni	sce_6336	41.11	hypothetical protein
SCE1572_5985	conserved hypothetical protein	uni	sce_10430	32.13	Mlr2351 protein
SCE1572_5986	hypothetical protein	-		0	
SCE1572_5987	hypothetical protein	uni	sce_3038	37.85	hypothetical protein
SCE1572_5988	hypothetical protein	-		0	
SCE1572_5989	hypothetical protein	bi	sce_9405	62.92	FIG01088026: hypothetical protein
SCE1572_5990	VgrG protein	bi	sce_9404	72.23	VgrG protein
SCE1572_5991	hypothetical protein	bi	sce_4943	95.61	hypothetical protein
SCE1572_5992	ABC transporter, ATP-binding protein	bi	sce_4944	92.76	ABC-type multidrug transport system, ATPase component
SCE1572_5993	putative membrane spanning protein	bi	sce_4945	96.62	ABC-type transport system involved in multi-copper enzyme maturation, permease component, putative
SCE1572_5994	hypothetical protein	bi	sce_4946	85.8	hypothetical protein
SCE1572_5995	FIG01087481: hypothetical protein	bi	sce_4947	87.94	FIG01087481: hypothetical protein
SCE1572_5996	hypothetical protein	bi	sce_4948	85.51	hypothetical protein
SCE1572_5997	serine/threonine protein kinase	bi	sce_4949	76.9	serine/threonine protein kinase
SCE1572_5998	tyrosine recombinase XerD	bi	sce_4950	95.61	tyrosine recombinase XerD
SCE1572_5999	N-formylglutamate deformylase (EC 3.5.1.68)	bi	sce_4951	92.41	N-formylglutamate deformylase (EC 3.5.1.68)
SCE1572_6000	FIG01086988: hypothetical protein	bi	sce_4952	81.84	FIG01086988: hypothetical protein
SCE1572_6001	LSU ribosomal protein L28p	bi	sce_4953	98.65	LSU ribosomal protein L28p
SCE1572_6002	hypothetical protein	bi	sce_4954	89.68	hypothetical protein
SCE1572_6003	235aa long hypothetical protein	bi	sce_4955	92.53	235aa long hypothetical protein
SCE1572_6004	FIG01085758: hypothetical protein	bi	sce_4956	93.29	FIG01085758: hypothetical protein
SCE1572_6005	Epoxyqueuosine (oQ) reductase QueG	bi	sce_4957	84.21	Epoxyqueuosine (oQ) reductase QueG
SCE1572_6006	tRNA (Guanine37-N1) -methyltransferase (EC 2.1.1.31) / protein of unknown function aq_054	bi	sce_4958	91.1	tRNA (Guanine37-N1) -methyltransferase (EC 2.1.1.31)
SCE1572_6007	tRNA (Guanine37-N1) -methyltransferase (EC 2.1.1.31)	uni	sce_4958	87.5	tRNA (Guanine37-N1) -methyltransferase (EC 2.1.1.31)
SCE1572_6008	16S rRNA processing protein RimM	bi	sce_4959	86.47	16S rRNA processing protein RimM
SCE1572_6009	KH domain RNA binding protein YlqC	bi	sce_4960	100	KH domain RNA binding protein YlqC
SCE1572_6010	SSU ribosomal protein S16p	bi	sce_4961	100	SSU ribosomal protein S16p
SCE1572_6011	FIG01086863: hypothetical protein	bi	sce_4963	81.93	FIG01086863: hypothetical protein
SCE1572_6012	FIG022979: MoxR-like ATPases	bi	sce_4964	96	FIG022979: MoxR-like ATPases
SCE1572_6013	hypothetical protein	bi	sce_4965	92.1	hypothetical protein
SCE1572_6014	Dimethyladenosine transferase (EC 2.1.1.-)	bi	sce_4966	91.67	Dimethyladenosine transferase (EC 2.1.1.-)
SCE1572_6015	ATP synthase beta chain (EC 3.6.3.14)	bi	sce_4968	95.77	ATP synthase beta chain (EC 3.6.3.14)
SCE1572_6016	ATP synthase epsilon chain (EC 3.6.3.14)	bi	sce_4969	95.14	ATP synthase epsilon chain (EC 3.6.3.14)
SCE1572_6017	DNA primase (EC 2.7.7.-)	bi	sce_4970	93.68	DNA primase (EC 2.7.7.-)
SCE1572_6018	RNA polymerase sigma factor RpoD	bi	sce_4971	99.53	RNA polymerase sigma factor RpoD
SCE1572_6019	hypothetical protein	bi	sce_4972	74	hypothetical protein
SCE1572_6020	rhomboid family protein	bi	sce_4973	92.09	rhomboid family protein
SCE1572_6021	Outer membrane protein assembly factor YaeT precursor	bi	sce_4974	92.22	Outer membrane protein assembly factor YaeT precursor
SCE1572_6022	hypothetical protein	-		0	
SCE1572_6023	Topoisomerase IV subunit A (EC 5.99.1.-)	bi	sce_4976	97	Topoisomerase IV subunit A (EC 5.99.1.-)
SCE1572_6024	Topoisomerase IV subunit B (EC 5.99.1.-)	bi	sce_4977	96.74	Topoisomerase IV subunit B (EC 5.99.1.-)
SCE1572_6025	hypothetical protein	bi	sce_4978	89.92	hypothetical protein
SCE1572_6026	Omega amidase (Nit2 homolog)	bi	sce_4979	92.16	Omega amidase (Nit2 homolog)
SCE1572_6027	EBNA-1	bi	sce_4980	72.36	Epstein-Barr nuclear antigen 1 (EBV nuclear antigen 1) (EBNA-1)
SCE1572_6028	NUDIX hydrolase	bi	sce_4981	91.23	mutator MutT homolog
SCE1572_6029	DNA ligase (EC 6.5.1.2)	bi	sce_4982	94.08	DNA ligase (EC 6.5.1.2)
SCE1572_6030	hypothetical protein	bi	sce_4983	84.73	hypothetical protein
SCE1572_6031	Delta-1-pyrroline-5-carboxylate dehydrogenase (EC 1.5.1.12)	bi	sce_4984	95.24	Delta-1-pyrroline-5-carboxylate dehydrogenase (EC 1.5.1.12)
SCE1572_6032	hypothetical protein	bi	sce_4985	69.57	hypothetical protein
SCE1572_6033	Serine protease, subtilase family	bi	sce_4986	73.44	Serine protease, subtilase family
SCE1572_6034	Thimet oligopeptidase (EC 3.4.24.15)	bi	sce_4987	88.67	Thimet oligopeptidase (EC 3.4.24.15)
SCE1572_6035	TPR domain protein, putative component of TonB system	uni	sce_3281	30.57	TPR domain protein, putative component of TonB system
SCE1572_6036	hypothetical protein	-		0	
SCE1572_6037	hypothetical protein	bi	sce_4989	75.81	hypothetical protein
SCE1572_6038	protein kinase	bi	sce_4990	87.75	protein kinase
SCE1572_6039	Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain	bi	sce_4991	87.25	Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain
SCE1572_6040	Type IV fimbrial assembly, ATPase PilB	bi	sce_4992	98.23	Type IV fimbrial assembly, ATPase PilB
SCE1572_6041	Twitching motility protein PilT	bi	sce_4993	96.83	Twitching motility protein PilT
SCE1572_6042	SOS-response repressor and protease LexA (EC 3.4.21.88)	bi	sce_4994	97.83	SOS-response repressor and protease LexA (EC 3.4.21.88)
SCE1572_6043	hypothetical protein	-		0	
SCE1572_6044	FIG01088921: hypothetical protein	bi	sce_4995	93.41	FIG01088921: hypothetical protein
SCE1572_6045	OmpA	bi	sce_4996	94.21	OmpA
SCE1572_6046	hypothetical protein	bi	sce_4997	82.53	hypothetical protein
SCE1572_6047	hypothetical protein	bi	sce_4999	94.21	hypothetical protein
SCE1572_6048	Transcriptional regulatory protein algP	bi	sce_5000	78.86	Transcriptional regulatory protein algP
SCE1572_6049	Flagellar assembly protein FliH	bi	sce_5001	70.61	Flagellar assembly protein FliH
SCE1572_6050	hypothetical protein	-		0	
SCE1572_6051	Aspartate aminotransferase (EC 2.6.1.1)	bi	sce_5002	92.11	Aspartate aminotransferase (EC 2.6.1.1)
SCE1572_6052	Virulence factor Mce family protein	bi	sce_5003	93.98	Virulence factor Mce family protein
SCE1572_6053	Methionine ABC transporter ATP-binding protein	bi	sce_5004	95.37	Methionine ABC transporter ATP-binding protein
SCE1572_6054	Single-stranded-DNA-specific exonuclease RecJ (EC 3.1.-.-)	bi	sce_5005	91.69	Single-stranded-DNA-specific exonuclease RecJ (EC 3.1.-.-)
SCE1572_6055	Protein-export membrane protein SecF (TC 3.A.5.1.1)	bi	sce_5006	90.8	Protein-export membrane protein SecF (TC 3.A.5.1.1)
SCE1572_6056	Protein-export membrane protein SecD (TC 3.A.5.1.1)	bi	sce_5007	94.28	Protein-export membrane protein SecD (TC 3.A.5.1.1)
SCE1572_6057	Preprotein translocase subunit YajC (TC 3.A.5.1.1)	bi	sce_5008	89.19	Preprotein translocase subunit YajC (TC 3.A.5.1.1)
SCE1572_6058	Pyruvate-flavodoxin oxidoreductase (EC 1.2.7.-)	bi	sce_5009	93.68	Pyruvate-flavodoxin oxidoreductase (EC 1.2.7.-)
SCE1572_6059	Threonyl-tRNA synthetase (EC 6.1.1.3)	uni	sce_4871	36.46	Threonyl-tRNA synthetase (EC 6.1.1.3)
SCE1572_6060	hypothetical protein	-		0	
SCE1572_6061	Translation initiation factor 3	bi	sce_5011	95.8	Translation initiation factor 3
SCE1572_6062	serine/threonine protein kinase	bi	sce_5012	83.21	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_6063	hypothetical protein	-		0	
SCE1572_6064	hypothetical protein	bi	sce_5013	86.84	hypothetical protein
SCE1572_6065	hypothetical protein	bi	sce_5014	90.48	hypothetical protein

SCE1572_6066	hypothetical protein	bi	sce_5015	84.75	hypothetical protein
SCE1572_6067	FIG01086293: hypothetical protein	bi	sce_5016	86.57	FIG01086293: hypothetical protein
SCE1572_6068	hypothetical protein	bi	sce_5017	92.34	hypothetical protein
SCE1572_6069	FMN-binding domain protein	bi	sce_5018	92.43	FMN-binding
SCE1572_6070	Conserved domain protein	bi	sce_5019	90.82	Conserved domain protein
SCE1572_6071	hypothetical protein	-		0	
SCE1572_6072	hypothetical protein	uni	sce_10290	42.41	Sensor protein
SCE1572_6073	hypothetical protein	-		0	
SCE1572_6074	1,4-alpha-glucan (glycogen) branching enzyme, GH-13-type (EC 2.4.1.18)	bi	sce_5020	90.62	1,4-alpha-glucan (glycogen) branching enzyme, GH-13-type (EC 2.4.1.18)
SCE1572_6075	Aldehyde dehydrogenase (EC 1.2.1.3)	bi	sce_5022	95.08	Aldehyde dehydrogenase (EC 1.2.1.3)
SCE1572_6076	hypothetical protein	bi	sce_5023	84.44	FIG01085073: hypothetical protein
SCE1572_6077	hypothetical protein	bi	sce_5024	88.31	hypothetical protein
SCE1572_6078	FIG01087372: hypothetical protein	uni	sce_522	84.62	FIG01087372: hypothetical protein
SCE1572_6079	hypothetical protein	-		0	
SCE1572_6080	FIG01086922: hypothetical protein	uni	sce_7361	54.36	AAA ATPase
SCE1572_6081	Prophage Lp2 protein 6	uni	sce_244	80.95	Prophage Lp2 protein 6
SCE1572_6082	Prophage Lp2 protein 6	bi	sce_244	91.43	Prophage Lp2 protein 6
SCE1572_6083	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_9491	47.87	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_6084	hypothetical protein	-		0	
SCE1572_6085	Endonuclease/exonuclease/phosphatase	-		0	
SCE1572_6086	hypothetical protein	bi	sce_1876	67.24	hypothetical protein
SCE1572_6087	ATP-dependent protease La (EC 3.4.21.53) Type I	bi	sce_5033	94.49	ATP-dependent protease La (EC 3.4.21.53) Type I
SCE1572_6088	ICE-like protease (caspase) p20 domain protein	bi	sce_5035	68.71	peptidase C14, caspase catalytic subunit p20
SCE1572_6089	putative exported protein of unknown function with OmpA family domain	bi	sce_5036	75.76	hypothetical protein
SCE1572_6090	RNA polymerase sigma factor RpoE	bi	sce_5037	89	RNA polymerase sigma factor RpoE
SCE1572_6091	hypothetical protein	bi	sce_5039	67.46	hypothetical protein
SCE1572_6092	serine/threonine protein kinase	uni	sce_1794	48.91	serine/threonine protein kinase
SCE1572_6093	probable secreted protease	-		0	
SCE1572_6094	FIG01085119: hypothetical protein	bi	sce_835	77.35	FIG01085119: hypothetical protein
SCE1572_6095	PAS fold-3	uni	sce_6175	49.66	RsbR, positive regulator of sigma-B
SCE1572_6096	Signal transduction histidine kinase CheA (EC 2.7.3.-)	uni	sce_3917	39.95	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_6097	Transcriptional regulator, TetR family	bi	sce_5042	89.76	Transcriptional regulator, TetR family
SCE1572_6098	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_5044	75.13	hypothetical protein
SCE1572_6099	FIG01085909: hypothetical protein	bi	sce_5045	72.98	FIG01087200: hypothetical protein
SCE1572_6100	Fe-S-cluster-containing hydrogenase components 1	bi	sce_5047	84.47	Fe-S-cluster-containing hydrogenase components 1
SCE1572_6101	Molybdopterin oxidoreductase membrane subunit	bi	sce_5048	86.55	Molybdopterin oxidoreductase membrane subunit
SCE1572_6102	ABC-type Fe3 transport system protein; Molybdenum transport protein, putative	bi	sce_5049	84.48	ABC-type Fe3 transport system protein; Molybdenum transport protein, putative
SCE1572_6103	hypothetical protein	bi	sce_5050	77.99	hypothetical protein
SCE1572_6104	hypothetical protein	bi	sce_5051	83.54	hypothetical protein
SCE1572_6105	hypothetical protein	bi	sce_5052	73.08	hypothetical protein
SCE1572_6106	SCO1/SenC family protein	bi	sce_5053	82.37	hypothetical protein
SCE1572_6107	Cytochrome c oxidase polypeptide II (EC 1.9.3.1)	bi	sce_5054	83.7	Cytochrome c oxidase polypeptide II (EC 1.9.3.1)
SCE1572_6108	Cytochrome c oxidase polypeptide I (EC 1.9.3.1)	bi	sce_5055	90.35	Cytochrome c oxidase polypeptide I (EC 1.9.3.1)
SCE1572_6109	Cytochrome c oxidase polypeptide III (EC 1.9.3.1)	bi	sce_5056	86.1	Cytochrome c oxidase polypeptide III (EC 1.9.3.1)
SCE1572_6110	Caa(3)-type oxidase, subunit IV	bi	sce_5057	79.09	caa(3)-type oxidase, subunit IV
SCE1572_6111	Mobile element protein	bi	sce_5058	82.98	putative lipoprotein
SCE1572_6112	Putative ATP-dependent DNA helicase	bi	sce_5059	49.27	Putative ATP-dependent DNA helicase
SCE1572_6113	FIG01086098: hypothetical protein	bi	sce_5060	87.59	FIG01086489: hypothetical protein
SCE1572_6114	TeiR	bi	sce_6885	39.82	TeiR
SCE1572_6115	hypothetical protein	-		0	
SCE1572_6116	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_6214	62.56	Xylanase
SCE1572_6117	iron-sulfur cluster-binding protein, Rieske family	uni	sce_7799	33.14	C3: similar to Vanillate O-demethylase oxygenase
SCE1572_6118	Transcription repressor of multidrug efflux pump acrAB operon, TetR (AcrR) family	uni	sce_6665	34.18	Transcriptional regulator, TetR family
SCE1572_6119	FIG01086131: hypothetical protein	bi	sce_5062	98.98	FIG01086131: hypothetical protein
SCE1572_6120	contains protein kinase domain, Pfam:PF00069; go_function: kinase activity [goid 0016301] / protein kinase family protein	bi	sce_5063	73.07	contains protein kinase domain, Pfam:PF00069; go_function: kinase activity [goid 0016301] / protein kinase family protein
SCE1572_6121	Phytoene dehydrogenase (EC 1.14.99.-)	bi	sce_5064	80.39	Phytoene dehydrogenase (EC 1.14.99.-)
SCE1572_6122	serine/threonine protein kinase	bi	sce_5066	95.6	serine/threonine protein kinase
SCE1572_6123	FIG01086778: hypothetical protein	bi	sce_5068	71.36	FIG01086778: hypothetical protein
SCE1572_6124	hypothetical protein	bi	sce_5069	90.85	hypothetical protein
SCE1572_6125	Methyltransferase type 11	bi	sce_5070	88.4	Methyltransferase type 11
SCE1572_6126	FIG01087980: hypothetical protein	bi	sce_5071	84.7	FIG01087980: hypothetical protein
SCE1572_6127	serine/threonine protein kinase	bi	sce_5072	82.98	serine/threonine protein kinase
SCE1572_6128	Pyruvate kinase (EC 2.7.1.40)	bi	sce_5073	98.55	Pyruvate kinase (EC 2.7.1.40)
SCE1572_6129	Polyribonucleotide nucleotidyltransferase (EC 2.7.7.8)	bi	sce_5074	95.78	Polyribonucleotide nucleotidyltransferase (EC 2.7.7.8)
SCE1572_6130	hypothetical protein	bi	sce_5075	88.64	hypothetical protein
SCE1572_6131	SSU ribosomal protein S15p (S13e)	bi	sce_5076	95.45	SSU ribosomal protein S15p (S13e)
SCE1572_6132	hypothetical protein	-		0	
SCE1572_6133	serine/threonine protein kinase	bi	sce_5077	92.9	serine/threonine protein kinase
SCE1572_6134	Putative Holliday junction resolvase (EC 3.1.-.-)	bi	sce_5078	94.37	Putative Holliday junction resolvase (EC 3.1.-.-)
SCE1572_6135	Histidyl-tRNA synthetase (EC 6.1.1.21)	bi	sce_5079	92.86	Histidyl-tRNA synthetase (EC 6.1.1.21)
SCE1572_6136	hypothetical protein	bi	sce_5080	90.57	hypothetical protein
SCE1572_6137	hypothetical protein	bi	sce_5081	94.55	hypothetical protein
SCE1572_6138	hypothetical protein	bi	sce_7381	93.75	hypothetical protein
SCE1572_6139	putative sensory box histidine kinase/response regulator	bi	sce_5082	88.8	Histidine kinase
SCE1572_6140	hypothetical protein	bi	sce_5083	87.42	putative vgr-related protein
SCE1572_6141	hypothetical protein	-		0	
SCE1572_6142	FIG01087734: hypothetical protein	bi	sce_5084	82.65	FIG01087734: hypothetical protein
SCE1572_6143	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	-		0	
SCE1572_6144	hypothetical protein	-		0	
SCE1572_6145	hypothetical protein	bi	sce_5088	78.88	hypothetical protein
SCE1572_6146	Multi antimicrobial extrusion protein (Na()/drug antiporter), MATE family of MDR efflux pumps	bi	sce_1290	31.79	MATE efflux family protein
SCE1572_6147	Carbonic anhydrase(EC:4.2.1.1)	uni	sce_7712	26.06	Carbonic anhydrase (EC 4.2.1.1)
SCE1572_6148	FIG01086657: hypothetical protein	uni	sce_6904	76.41	FIG01089354: hypothetical protein
SCE1572_6149	hypothetical protein	-		0	
SCE1572_6150	hypothetical protein	-		0	
SCE1572_6151	COG0553: Superfamily II DNA/RNA helicases, SNF2 family	bi	sce_5091	84.26	COG0553: Superfamily II DNA/RNA helicases, SNF2 family
SCE1572_6152	xenobiotic reductase, putative	bi	sce_4458	96.15	xenobiotic reductase, putative
SCE1572_6153	hypothetical protein	-		0	
SCE1572_6154	FIG01086458: hypothetical protein	uni	sce_5638	71.5	FIG01086458: hypothetical protein
SCE1572_6155	serine/threonine protein kinase	bi	sce_5094	77.88	serine/threonine protein kinase
SCE1572_6156	FIG01087783: hypothetical protein	bi	sce_5123	82.81	FIG01087783: hypothetical protein
SCE1572_6157	hypothetical protein	-		0	
SCE1572_6158	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	bi	sce_5128	75.74	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_6159	serine/threonine protein kinase	uni	sce_5129	74.63	serine/threonine protein kinase
SCE1572_6160	serine/threonine kinase family protein(EC:2.7.1.-)	bi	sce_5129	83.33	serine/threonine protein kinase
SCE1572_6161	conserved hypothetical protein	bi	sce_5130	63.9	conserved hypothetical protein
SCE1572_6162	Transcriptional activator of acetoin/glycerol metabolism	bi	sce_5131	89.52	Transcriptional activator of acetoin/glycerol metabolism
SCE1572_6163	hypothetical protein	-		0	
SCE1572_6164	Serine-threonine protein kinase	bi	sce_5160	80.71	Serine-threonine protein kinase
SCE1572_6165	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_5161	88.13	serine/threonine protein kinase
SCE1572_6166	Serine-threonine protein kinase	bi	sce_5162	77.69	Serine-threonine protein kinase
SCE1572_6167	hypothetical protein	bi	sce_5163	76.1	Succinyl-CoA ligase [ADP-forming] beta chain (EC 6.2.1.5)
SCE1572_6168	hypothetical protein	bi	sce_5164	88.86	hypothetical protein
SCE1572_6169	hypothetical protein	-		0	
SCE1572_6170	Alkyl hydroperoxide reductase subunit C-like protein	bi	sce_5165	84.38	Alkyl hydroperoxide reductase subunit C-like protein
SCE1572_6171	FIG01086485: hypothetical protein	bi	sce_5166	81.64	FIG01086485: hypothetical protein
SCE1572_6172	hypothetical protein	-		0	
SCE1572_6173	FIG01086810: hypothetical protein	bi	sce_335	77.89	FIG01086810: hypothetical protein
SCE1572_6174	Similarity	bi	sce_336	71.6	zonadhesin, putative
SCE1572_6175	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	bi	sce_5250	81.85	Butyryl-CoA dehydrogenase (EC 1.3.99.2)
SCE1572_6176	Small-conductance mechanosensitive channel	bi	sce_5171	84.67	Small-conductance mechanosensitive channel
SCE1572_6177	MscS Mechanosensitive ion channel	bi	sce_10374	34.73	MscS Mechanosensitive ion channel
SCE1572_6178	FIG01085444: hypothetical protein	bi	sce_5176	91.51	FIG01085444: hypothetical protein
SCE1572_6179	phytol kinase	bi	sce_5177	91.54	phytol kinase
SCE1572_6180	Metalloprotease MEP2	bi	sce_5178	82.96	Metalloprotease MEP2
SCE1572_6181	Carbonic anhydrase (EC 4.2.1.1)	bi	sce_5179	84.47	Carbonic anhydrase (EC 4.2.1.1)
SCE1572_6182	serine/threonine protein kinase	uni	sce_4890	45.39	serine/threonine protein kinase
SCE1572_6183	Arachidonate 15-lipoxygenase precursor (EC 1.13.11.33)	-		0	
SCE1572_6184	PE_PGRS family protein	uni	sce_3675	44.35	Feruloyl esterase B precursor (EC 3.1.1.73) (Ferulic acid esterase B) (FAEB) (Cinnamoyl esterase)
SCE1572_6185	FIG01088641: hypothetical protein	bi	sce_5195	87.04	FIG01088641: hypothetical protein
SCE1572_6186	hypothetical protein	bi	sce_5196	65	hypothetical protein
SCE1572_6187	FIG01086463: hypothetical protein	bi	sce_5197	84.97	FIG01086463: hypothetical protein
SCE1572_6188	putative esterase	bi	sce_5199	88.61	putative esterase
SCE1572_6189	hypothetical protein	uni	sce_2163	46.55	ABC transporter substrate-binding protein
SCE1572_6190	Ubiquinone biosynthesis monooxygenase UbiB	uni	sce_8312	37.36	hypothetical protein
SCE1572_6191	YbaK family protein	bi	sce_5200	94.44	YbaK family protein
SCE1572_6192	FIG01084969: hypothetical protein	bi	sce_5206	79.06	FIG01084969: hypothetical protein
SCE1572_6193	hypothetical protein	-		0	
SCE1572_6194	serine/threonine protein kinase	uni	sce_7827	51.68	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_6195	hypothetical protein	bi	sce_5207	83.93	hypothetical protein
SCE1572_6196	Tropomyosin-1, isoforms 33/34 (Tropomyosin II)	bi	sce_5208	75.19	Tropomyosin-1, isoforms 33/34 (Tropomyosin II)
SCE1572_6197	FIG01089605: hypothetical protein	bi	sce_5209	67.54	FIG01089605: hypothetical protein
SCE1572_6198	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_5211	83.21	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_6199	hypothetical protein	-		0	
SCE1572_6200	hypothetical protein	bi	sce_5224	84.39	hypothetical protein
SCE1572_6201	hypothetical protein	bi	sce_5225	82.06	hypothetical protein
SCE1572_6202	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_5226	90.4	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_6203	RIBITOL TYPE DEHYDROGENASE PROTEIN	bi	sce_5228	94.89	short-chain dehydrogenase/reductase SDR
SCE1572_6204	Universal stress protein family	bi	sce_135	60.38	Universal stress protein family 4
SCE1572_6205	Tat (twin-arginine translocation) pathway signal sequence domain protein	bi	sce_2524	88.94	Tat (twin-arginine translocation) pathway signal sequence domain protein
SCE1572_6206	Cellulose-binding domain protein	bi	sce_2525	84.33	Cellulose-binding domain protein
SCE1572_6207	putative transposase	-		0	
SCE1572_6208	hypothetical protein	-		0	
SCE1572_6209	FIG01085109: hypothetical protein	uni	sce_8592	59.57	FIG01085109: hypothetical protein
SCE1572_6210	FIG01085109: hypothetical protein	uni	sce_8592	62.59	FIG01085109: hypothetical protein
SCE1572_6211	Splicing factor, proline- and glutamine-rich (Polypyrimidine tract-binding protein-associated-splicing factor) (PTB-associated-	uni	sce_3249	42.86	Splicing factor, proline- and glutamine-rich (Polypyrimidine tract-binding protein-associated-splicing factor) (PTB-associated-splicir
SCE1572_6212	PREDICTED: hypothetical protein, partial	uni	sce_3858	29.49	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_6213	hypothetical protein	uni	sce_10331	80	hypothetical protein
SCE1572_6214	hypothetical protein	bi	sce_5241	77.42	FIG01086664: hypothetical protein
SCE1572_6215	FIG01085364: hypothetical protein	bi	sce_5242	71.73	FIG01085364: hypothetical protein
SCE1572_6216	hypothetical protein	uni	sce_7083	37.5	hypothetical protein
SCE1572_6217	Flavodoxin	bi	sce_9321	83.05	Flavodoxin
SCE1572_6218	Bll2291 protein	uni	sce_2641	50.29	Bll2291 protein
SCE1572_6219	hypothetical protein	-		0	
SCE1572_6220	erythrocyte membrane protein 1 (PfEMP1)	uni	sce_6314	44.87	putative lipoprotein
SCE1572_6221	hypothetical protein	uni	sce_2591	87.12	FIG01085827: hypothetical protein
SCE1572_6222	Phosphatidylinositol-glycan-specific phospholipase D precursor (EC 3.1.4.50) (PI-G PLD) (Glycoprotein phospholipase D) (G	uni	sce_867	43.43	Hemolysin-type calcium-binding region
SCE1572_6223	hypothetical protein	uni	sce_171	66.29	integral membrane protein
SCE1572_6224	hypothetical protein	bi	sce_5247	79.39	FIG01086104: hypothetical protein
SCE1572_6225	FIG01088230: hypothetical protein	bi	sce_5248	90.79	FIG01088230: hypothetical protein
SCE1572_6226	secretion protein HlyD	uni	sce_8771	50.67	Fusaric acid resistance protein
SCE1572_6227	outer membrane efflux protein	bi	sce_8772	49.02	Heavy metal RND efflux outer membrane protein, CzcC family
SCE1572_6228	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_1629	54.55	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_6229	hypothetical protein	uni	sce_6965	32.55	FIG01088986: hypothetical protein

SCE1572_6230	hypothetical protein	-		0	
SCE1572_6231	hypothetical protein	bi	sce_3674	90.57	hypothetical protein
SCE1572_6232	Feruloyl esterase B precursor (EC 3.1.1.73) (Ferulic acid esterase B) (FAEB) (Cinnamoyl esterase)	bi	sce_3675	86.18	Feruloyl esterase B precursor (EC 3.1.1.73) (Ferulic acid esterase B) (FAEB) (Cinnamoyl esterase)
SCE1572_6233	RsbR, positive regulator of sigma-B	uni	sce_6175	62.58	RsbR, positive regulator of sigma-B
SCE1572_6234	Nitrate reductase (NADH)(EC:1.7.1.1)	uni	sce_8040	25.64	molybdopterin-binding oxidoreductase
SCE1572_6235	PASTA domain containing protein	bi	sce_10194	49.49	hypothetical protein
SCE1572_6236	Probable lipoprotein signal peptide	bi	sce_2008	76.89	Probable lipoprotein signal peptide
SCE1572_6237	Transcriptional regulator, AraC family	uni	sce_1019	40.4	L-rhamnose operon transcriptional activator RhaR
SCE1572_6238	FIG01086207: hypothetical protein	bi	sce_5252	75.96	FIG01086207: hypothetical protein
SCE1572_6239	hypothetical protein	-		0	
SCE1572_6240	hypothetical protein	uni	sce_6334	30.15	putative integrin-like protein
SCE1572_6241	Valyl-tRNA synthetase (EC 6.1.1.9)	bi	sce_5253	69.35	DifB protein
SCE1572_6242	Mannose-6-phosphate isomerase (EC 5.3.1.8)	bi	sce_5254	88.97	Mannose-6-phosphate isomerase (EC 5.3.1.8)
SCE1572_6243	Protein involved in cellulose biosynthesis (CelD)-like protein	uni	sce_2195	28.96	Cellulose biosynthesis protein
SCE1572_6244	probable phosphatase	uni	sce_1965	29.81	Diadenosine tetraphosphatase
SCE1572_6245	hypothetical protein	-		0	
SCE1572_6246	FIG01086488: hypothetical protein	bi	sce_7862	82.8	FIG01086488: hypothetical protein
SCE1572_6247	Glycosyl transferase, group 1	bi	sce_614	66.59	Glycosyl transferase, group 1
SCE1572_6248	hypothetical protein	bi	sce_7861	79.26	hypothetical protein
SCE1572_6249	hypothetical protein	-		0	
SCE1572_6250	hypothetical protein	-		0	
SCE1572_6251	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_9491	50.25	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_6252	carboxylesterase	bi	sce_5264	81.33	carboxylesterase
SCE1572_6253	Hypothetical nudix hydrolase YeaB	bi	sce_5265	86.26	Hypothetical nudix hydrolase YeaB
SCE1572_6254	TonB family protein / TonB-dependent receptor	bi	sce_5266	89.37	TonB family protein / TonB-dependent receptor
SCE1572_6255	Epoxide hydrolase (EC 3.3.2.9)	-		0	
SCE1572_6256	Histone acetyltransferase HPA2 and related acetyltransferases	-		0	
SCE1572_6257	hypothetical protein	-		0	
SCE1572_6258	hypothetical protein	-		0	
SCE1572_6259	hypothetical protein	bi	sce_5270	60.71	FIG01086383: hypothetical protein
SCE1572_6260	FIG01087506: hypothetical protein	bi	sce_5271	80.24	hypothetical protein
SCE1572_6261	FIG01085123: hypothetical protein	bi	sce_5272	80.2	FIG01085123: hypothetical protein
SCE1572_6262	MoxR-like ATPases	bi	sce_5273	95.17	MoxR-like ATPases
SCE1572_6263	FIG01085640: hypothetical protein	bi	sce_5274	91.91	FIG01085640: hypothetical protein
SCE1572_6264	hypothetical protein	bi	sce_5275	74.75	hypothetical protein
SCE1572_6265	FIG01087582: hypothetical protein	bi	sce_5282	64.86	FIG01087582: hypothetical protein
SCE1572_6266	hypothetical protein	bi	sce_5284	54.72	hypothetical protein
SCE1572_6267	hypothetical protein	-		0	
SCE1572_6268	hypothetical protein	-		0	
SCE1572_6269	FIG01087638: hypothetical protein	bi	sce_5285	82.82	FIG01087638: hypothetical protein
SCE1572_6270	FIG01088450: hypothetical protein	bi	sce_5287	87.61	FIG01088450: hypothetical protein
SCE1572_6271	transcriptional regulator, MerR family	uni	sce_9675	36.92	MerR family transcriptional regulatory protein
SCE1572_6272	Oxidoreductase	bi	sce_5289	90.83	Oxidoreductase
SCE1572_6273	Xanthine and CO dehydrogenases maturation factor, XdhC/CoxF family	bi	sce_3740	90.43	Xanthine and CO dehydrogenases maturation factor, XdhC/CoxF family
SCE1572_6274	Isoquinoline 1-oxidoreductase alpha subunit (EC 1.3.99.16)	bi	sce_3739	91.5	Isoquinoline 1-oxidoreductase alpha subunit (EC 1.3.99.16)
SCE1572_6275	Isoquinoline 1-oxidoreductase beta subunit (EC 1.3.99.16)	bi	sce_3738	89.45	Isoquinoline 1-oxidoreductase beta subunit (EC 1.3.99.16)
SCE1572_6276	FIG01086323: hypothetical protein	bi	sce_3737	90.36	FIG01086323: hypothetical protein
SCE1572_6277	Short-chain dehydrogenase/reductase SDR	uni	sce_1873	41.8	Short-chain dehydrogenase/reductase SDR
SCE1572_6278	Transcriptional regulator, AraC family	bi	sce_3669	43.37	Transcriptional regulator, AraC family
SCE1572_6279	hypothetical protein	bi	sce_5294	77.47	Probable calcium-binding signal peptide protein
SCE1572_6280	FIG01085124: hypothetical protein	bi	sce_5297	80.79	FIG01085124: hypothetical protein
SCE1572_6281	protein of unknown function DUF11	uni	sce_1108	83.53	hypothetical protein
SCE1572_6282	hypothetical protein	-		0	
SCE1572_6283	FIG01085332: hypothetical protein	bi	sce_5305	89.56	FIG01085332: hypothetical protein
SCE1572_6284	Endonuclease III (EC 4.2.99.18)	bi	sce_5310	88.1	Endonuclease III (EC 4.2.99.18)
SCE1572_6285	Uracil-DNA glycosylase, family 1	bi	sce_5311	85.33	Uracil-DNA glycosylase, family 1
SCE1572_6286	hypothetical protein	bi	sce_5312	91.3	hypothetical protein
SCE1572_6287	Glutathione S-transferase, phi (EC 2.5.1.18)	bi	sce_5313	81.95	Glutathione S-transferase, phi (EC 2.5.1.18)
SCE1572_6288	hypothetical protein	bi	sce_142	87.5	FIG01087231: hypothetical protein
SCE1572_6289	FIG01088078: hypothetical protein	bi	sce_5318	78.04	FIG01088078: hypothetical protein
SCE1572_6290	hypothetical protein	-		0	
SCE1572_6291	POSSIBLE SERINE/THREONINE PHOSPHATASE PPP (EC 3.1.3.16)	bi	sce_5319	87	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_6292	oxidoreductase, aldo/keto reductase family	bi	sce_5321	89.32	InterPro IPR001395 COGs COG0656
SCE1572_6293	LpqC	bi	sce_5150	80.8	LpqC
SCE1572_6294	Transcriptional regulator, TetR family	uni	sce_5339	36.36	putative transcriptional regulator, TetR family
SCE1572_6295	short-chain dehydrogenase/reductase SDR	uni	sce_5575	30	Oxidoreductase, short chain dehydrogenase/reductase family
SCE1572_6296	Kazal-type serine protease inhibitor domain	bi	sce_5322	57.54	Kazal-type serine protease inhibitor domain
SCE1572_6297	Kazal-type serine protease inhibitor domain	uni	sce_5322	39.26	Kazal-type serine protease inhibitor domain
SCE1572_6298	UL36 very large tegument protein	bi	sce_5323	84.99	Chromosome partition protein smc
SCE1572_6299	hypothetical protein	uni	sce_7356	33.94	hypothetical protein
SCE1572_6300	hypothetical protein	bi	sce_5324	93.56	hypothetical protein
SCE1572_6301	Mobile element protein	uni	sce_6200	35.89	reverse transcriptase/maturase family protein
SCE1572_6302	oligopeptide transporter, OPT family	bi	sce_5329	90.9	oligopeptide transporter, OPT family
SCE1572_6303	hypothetical protein	uni	sce_1486	45.33	VgrG protein
SCE1572_6304	hypothetical protein	bi	sce_5331	94.87	hypothetical protein
SCE1572_6305	Nicotinamidase/isochorismatase family protein	bi	sce_5332	82.04	Nicotinamidase/isochorismatase family protein
SCE1572_6306	Transcriptional Regulator, LysR family	bi	sce_5333	85.43	Transcriptional regulator, LysR family
SCE1572_6307	RsbR, positive regulator of sigma-B	bi	sce_5334	73.92	RsbR, positive regulator of sigma-B
SCE1572_6308	Taurine transport ATP-binding protein TauB	bi	sce_5335	92.68	Taurine transport ATP-binding protein TauB
SCE1572_6309	Alkanesulfonates transport system permease protein	bi	sce_5336	92.06	Alkanesulfonates transport system permease protein
SCE1572_6310	aldo/keto reductase	bi	sce_5337	93.2	aldo/keto reductase
SCE1572_6311	Alpha/beta hydrolase	bi	sce_5338	81.85	carboxylesterase
SCE1572_6312	Phosphoribosylaminoimidazole carboxylase ATPase subunit (EC 4.1.1.21)	uni	sce_3858	34.07	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_6313	heme biosynthesis protein	bi	sce_2034	48.63	FIG01085108: hypothetical protein
SCE1572_6314	PE-PGRS family protein	uni	sce_7494	50	FIG01087054: hypothetical protein
SCE1572_6315	RNA polymerase sigma-70 factor, ECF subfamily	uni	sce_7181	40.14	RNA polymerase sigma-70 factor, ECF subfamily
SCE1572_6316	hypothetical protein	-		0	
SCE1572_6317	hypothetical protein	-		0	
SCE1572_6318	FIG01086027: hypothetical protein	bi	sce_5340	80.68	FIG01086027: hypothetical protein
SCE1572_6319	Matrix metalloproteinase-25 precursor (EC 3.4.24.-) (MMP-25) (Membrane-type matrix metalloproteinase 6) (MT-MMP 6) (M	bi	sce_5341	72.82	PE-PGRS FAMILY PROTEIN
SCE1572_6320	hypothetical protein	bi	sce_5342	91.09	hypothetical protein
SCE1572_6321	hypothetical protein	uni	sce_5342	90.41	hypothetical protein
SCE1572_6322	FKBP-type peptidyl-prolyl cis-trans isomerase fklB (EC 5.2.1.8)	bi	sce_5343	81	FKBP-type peptidyl-prolyl cis-trans isomerase (PPIase)
SCE1572_6323	2-aminoethylphosphonate:pyruvate aminotransferase (EC 2.6.1.37)	bi	sce_5344	92.99	2-aminoethylphosphonate:pyruvate aminotransferase (EC 2.6.1.37)
SCE1572_6324	Ubiquinone biosynthesis monooxygenase UbiB	bi	sce_5345	97.19	Ubiquinone biosynthesis monooxygenase UbiB
SCE1572_6325	hypothetical protein	bi	sce_5346	90.58	FIG01086692: hypothetical protein
SCE1572_6326	FIG01085169: hypothetical protein	bi	sce_5348	97	FIG01085169: hypothetical protein
SCE1572_6327	hypothetical protein	bi	sce_5349	89.13	hypothetical protein
SCE1572_6328	putative mannose-1-phosphate guanyltransferase	bi	sce_5350	94.31	putative mannose-1-phosphate guanyltransferase
SCE1572_6329	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase (EC 2.6.1.-)	bi	sce_5351	94.23	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase (EC 2.6.1.-)
SCE1572_6330	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_5352	97.59	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_6331	FIG01088445: hypothetical protein	bi	sce_5353	85.31	FIG01088445: hypothetical protein
SCE1572_6332	putative secreted protein	bi	sce_5354	87.06	putative secreted protein
SCE1572_6333	Cysteine synthase (EC 2.5.1.47)	bi	sce_5355	92.45	Cysteine synthase (EC 2.5.1.47)
SCE1572_6334	NADH-ubiquinone oxidoreductase chain L (EC 1.6.5.3)	bi	sce_5357	88.45	NADH-ubiquinone oxidoreductase chain L (EC 1.6.5.3)
SCE1572_6335	Hypothetical transmembrane protein coupled to NADH-ubiquinone oxidoreductase chain 5 homolog	bi	sce_5358	87.14	Hypothetical transmembrane protein coupled to NADH-ubiquinone oxidoreductase chain 5 homolog
SCE1572_6336	anion transporters (Cl(-), SO4(2-), PO4(3-), etc.)	bi	sce_5359	87.43	anion transporters (Cl(-), SO4(2-), PO4(3-), etc.)
SCE1572_6337	RNA polymerase, sigma-24 subunit, ECF subfamily	bi	sce_5360	89.74	putative RNA polymerase sigma factor
SCE1572_6338	hypothetical protein	bi	sce_5361	83.17	hypothetical protein
SCE1572_6339	Nucleoside triphosphate pyrophosphohydrolase MazG	bi	sce_5373	93.5	Nucleoside triphosphate pyrophosphohydrolase MazG
SCE1572_6340	Latent membrane protein 1	bi	sce_5374	71.89	hypothetical protein
SCE1572_6341	FIG01087827: hypothetical protein	bi	sce_5375	81.54	FIG01087827: hypothetical protein
SCE1572_6342	FAD-dependent monooxygenase PhzS	bi	sce_5377	82.09	Salicylate hydroxylase (EC 1.14.13.1)
SCE1572_6343	FIG01086098: hypothetical protein	bi	sce_5378	74.91	hypothetical protein
SCE1572_6344	Gll0645 protein	bi	sce_5379	77.87	Gll0645 protein
SCE1572_6345	hypothetical protein	bi	sce_5380	73.11	FIG01087100: hypothetical protein
SCE1572_6346	unknown	bi	sce_5382	94.46	unknown
SCE1572_6347	FHA domain protein	bi	sce_5383	82.02	FHA domain protein
SCE1572_6348	hypothetical protein	-		0	
SCE1572_6349	Beta-xylosidase (EC 3.2.1.37)	-		0	
SCE1572_6350	NAD-dependent epimerase/dehydratase	uni	sce_1993	28.86	NAD-dependent epimerase/dehydratase
SCE1572_6351	Pectate lyase precursor (EC 4.2.2.2)	bi	sce_5387	80.7	Pectate lyase precursor (EC 4.2.2.2)
SCE1572_6352	hypothetical protein	bi	sce_5388	66	hypothetical protein
SCE1572_6353	Oxidoreductase, short chain dehydrogenase/reductase family	bi	sce_5389	91.91	Oxidoreductase, short chain dehydrogenase/reductase family
SCE1572_6354	Alkanesulfonates-binding protein	bi	sce_5506	72.43	Alkanesulfonates-binding protein
SCE1572_6355	Alkanesulfonates transport system permease protein	bi	sce_5507	87.76	Alkanesulfonates transport system permease protein
SCE1572_6356	Glycerol dehydrogenase (EC 1.1.1.6)	bi	sce_6038	98.28	Glycerol dehydrogenase (EC 1.1.1.6)
SCE1572_6357	RsbR, positive regulator of sigma-B	bi	sce_5390	86.15	RsbR, positive regulator of sigma-B
SCE1572_6358	putative endoglucanase(EC:3.2.1.-)	uni	sce_5442	25.34	Endoglucanase H precursor (EC 3.2.1.4) (EgH) (Endo-1,4-beta-glucanase H) (Cellulase H)
SCE1572_6359	FIG01087447: hypothetical protein	bi	sce_5391	84.69	FIG01087447: hypothetical protein
SCE1572_6360	FIG01089037: hypothetical protein	bi	sce_5392	77.16	FIG01089037: hypothetical protein
SCE1572_6361	hypothetical protein	uni	sce_4720	35.9	hypothetical protein
SCE1572_6362	hypothetical protein	uni	sce_4721	34.62	hypothetical protein
SCE1572_6363	Macrolide export ATP-binding/permease protein MacB (EC 3.6.3.-)	bi	sce_5393	94.79	Macrolide export ATP-binding/permease protein MacB (EC 3.6.3.-)
SCE1572_6364	Cell division transporter, ATP-binding protein FtsE (TC 3.A.5.1.1)	bi	sce_5394	90.95	ABC transporter, ATP binding protein
SCE1572_6365	Macrolide-specific efflux protein MacA	bi	sce_5395	87.98	Membrane fusion protein, HlyD family
SCE1572_6366	Outer membrane efflux protein family	bi	sce_5396	75.24	Outer membrane efflux protein family
SCE1572_6367	Copper-sensing two-component system response regulator CpxR	bi	sce_5397	92.31	Copper-sensing two-component system response regulator CpxR
SCE1572_6368	Putative two-component system sensor kinase	bi	sce_5398	90.24	Putative two-component system sensor kinase
SCE1572_6369	conserved hypothetical protein	uni	sce_6998	36.59	Predicted ATPase
SCE1572_6370	hypothetical protein	bi	sce_5400	82.24	hypothetical protein
SCE1572_6371	putative cytochrome P450 hydroxylase	uni	sce_7075	43.56	putative cytochrome P450 hydroxylase
SCE1572_6372	hypothetical protein	-		0	
SCE1572_6373	hypothetical protein	-		0	
SCE1572_6374	FIG01127640: hypothetical protein	-		0	
SCE1572_6375	tannase precursor	-		0	
SCE1572_6376	ethanolamine ammonia-lyase(EC:4.3.1.7)	-		0	
SCE1572_6377	hypothetical protein	bi	sce_5401	77.17	hypothetical protein
SCE1572_6378	FIG01088313: hypothetical protein	bi	sce_7567	77.04	FIG01088313: hypothetical protein
SCE1572_6379	FIG01125955: hypothetical protein	uni	sce_453	31.16	hypothetical protein
SCE1572_6380	hypothetical protein	-		0	
SCE1572_6381	protein of unknown function DUF1255	bi	sce_5402	89.25	Uncharacterized protein conserved in bacteria
SCE1572_6382	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_5403	90.05	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_6383	hypothetical protein	bi	sce_5404	50.96	hypothetical protein
SCE1572_6384	serine/threonine protein kinase	bi	sce_5405	85.95	serine/threonine protein kinase
SCE1572_6385	hypothetical protein	-		0	
SCE1572_6386	Uncharacterized protein conserved in bacteria	bi	sce_5406	94.52	Uncharacterized protein conserved in bacteria
SCE1572_6387	Ribosomal RNA large subunit methyltransferase N (EC 2.1.1.-)	bi	sce_5407	97.69	Ribosomal RNA large subunit methyltransferase N (EC 2.1.1.-)
SCE1572_6388	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)	bi	sce_5408	92.27	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)
SCE1572_6389	Phosphomannomutase (EC 5.4.2.8)	bi	sce_5409	87.42	putative phosphoglucomutase/phosphomannomutase
SCE1572_6390	FIG01087770: hypothetical protein	bi	sce_5410	92.64	FIG01087770: hypothetical protein
SCE1572_6391	hypothetical protein	-		0	
SCE1572_6392	hypothetical protein	bi	sce_5412	92.04	hypothetical protein
SCE1572_6393	Pyrroloquinoline quinone (Coenzyme PQQ) biosynthesis protein C	bi	sce_5413	89.43	Pyrroloquinoline quinone (Coenzyme PQQ) biosynthesis protein C

SCE1572_6394	Two-component response regulator	bi	sce_5414	90.6	Two-component response regulator
SCE1572_6395	hypothetical protein	-		0	
SCE1572_6396	Shikimate kinase I (EC 2.7.1.71) / 3-dehydroquinate synthase (EC 4.2.3.4)	bi	sce_5415	92.34	Shikimate kinase I (EC 2.7.1.71) / 3-dehydroquinate synthase (EC 4.2.3.4)
SCE1572_6397	Chorismate synthase (EC 4.2.3.5)	bi	sce_5416	97.21	Chorismate synthase (EC 4.2.3.5)
SCE1572_6398	Glutamate racemase (EC 5.1.1.3)	bi	sce_5417	82.42	Glutamate racemase (EC 5.1.1.3)
SCE1572_6399	Homoserine dehydrogenase (EC 1.1.1.3)	bi	sce_5418	92.32	Homoserine dehydrogenase (EC 1.1.1.3)
SCE1572_6400	Uncharacterized protein ImpC	bi	sce_5419	86.75	Uncharacterized protein ImpC
SCE1572_6401	hypothetical protein	bi	sce_5420	75.68	hypothetical protein
SCE1572_6402	Probable secreted protein	bi	sce_5422	86.79	Probable secreted protein
SCE1572_6403	GTP cyclohydrolase II (EC 3.5.4.25)	bi	sce_5423	94.52	GTP cyclohydrolase II (EC 3.5.4.25)
SCE1572_6404	FIG01089015: hypothetical protein	bi	sce_5424	74.85	FIG01089015: hypothetical protein
SCE1572_6405	phosphoesterase, PA-phosphatase related	bi	sce_5425	80.92	phosphoesterase PA-phosphatase related
SCE1572_6406	Transcriptional regulator, TetR family	bi	sce_5426	88.02	Transcriptional regulator, TetR family
SCE1572_6407	FIG01087697: hypothetical protein	bi	sce_5427	89.85	FIG01087697: hypothetical protein
SCE1572_6408	Homoserine kinase (EC 2.7.1.39)	bi	sce_5428	85.71	Homoserine kinase (EC 2.7.1.39)
SCE1572_6409	hypothetical protein	bi	sce_5429	62.8	hypothetical protein
SCE1572_6410	hypothetical protein	-		0	
SCE1572_6411	Glutathione S-transferase (EC 2.5.1.18)	uni	sce_7550	40.22	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_6412	Biotin synthesis protein bioC	bi	sce_5430	81.53	Biotin synthesis protein bioC
SCE1572_6413	COGs COG3558	bi	sce_5431	91.25	COGs COG3558
SCE1572_6414	hypothetical protein	-		0	
SCE1572_6415	conserved hypothetical protein	bi	sce_5433	82.35	conserved hypothetical protein
SCE1572_6416	Transcriptional regulator, TetR family	bi	sce_5434	87.96	Transcriptional regulator, TetR family
SCE1572_6417	hypothetical protein	-		0	
SCE1572_6418	cellulosome enzyme, dockerin type I	bi	sce_5435	78.14	cellulosome enzyme, dockerin type I
SCE1572_6419	hypothetical protein	uni	sce_8512	59.18	hypothetical protein
SCE1572_6420	FIG01086549: hypothetical protein	uni	sce_5307	73.86	FIG01086549: hypothetical protein
SCE1572_6421	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12)	uni	sce_8225	67.26	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12)
SCE1572_6422	conserved hypothetical protein	bi	sce_7652	52.74	hypothetical protein
SCE1572_6423	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_3067	70.19	Xylanase
SCE1572_6424	hypothetical protein	-		0	
SCE1572_6425	hypothetical protein	uni	sce_1172	64.98	hypothetical protein
SCE1572_6426	hypothetical protein	bi	sce_9434	56.21	FIG01086661: hypothetical protein
SCE1572_6427	annexin VII	bi	sce_4820	51.47	hypothetical protein
SCE1572_6428	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	bi	sce_7206	74.63	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)
SCE1572_6429	FIG01089505: hypothetical protein	bi	sce_2031	84.14	FIG01089505: hypothetical protein
SCE1572_6430	P-methylase	bi	sce_6181	96.57	Radical SAM domain protein
SCE1572_6431	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_7564	44.79	Putative galactosidase
SCE1572_6432	Methyltransferase	bi	sce_2123	81.85	Methyltransferase
SCE1572_6433	Transcriptional regulator, MerR family	bi	sce_2124	83.33	Transcriptional regulator, MerR family
SCE1572_6434	hypothetical protein	-		0	
SCE1572_6435	hypothetical protein	-		0	
SCE1572_6436	hypothetical protein	bi	sce_3639	89.54	hypothetical protein
SCE1572_6437	hypothetical protein	bi	sce_3640	82.5	hypothetical protein
SCE1572_6438	hypothetical protein	-		0	
SCE1572_6439	Isochorismatase (EC 3.3.2.1)	uni	sce_2989	36.07	Nicotinamidase (EC 3.5.1.19)
SCE1572_6440	hypothetical protein	-		0	
SCE1572_6441	hypothetical protein	-		0	
SCE1572_6442	Fimh-like protein	uni	sce_4372	66.86	Fimh-like protein
SCE1572_6443	hypothetical protein	uni	sce_160	58.06	hypothetical protein
SCE1572_6444	hypothetical protein	-		0	
SCE1572_6445	hypothetical protein	bi	sce_5449	82.31	FIG01088294: hypothetical protein
SCE1572_6446	DNA repair protein RadC	uni	sce_8398	55.34	DNA repair protein RadC
SCE1572_6447	Transcriptional regulator Cro/CI family	uni	sce_514	51.85	hypothetical protein
SCE1572_6448	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)	uni	sce_6179	26.84	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)
SCE1572_6449	Type I restriction-modification system, specificity subunit S (EC 3.1.21.3)	-		0	
SCE1572_6450	Type I restriction-modification system, restriction subunit R (EC 3.1.21.3)	-		0	
SCE1572_6451	FIG01085109: hypothetical protein	bi	sce_8592	83.74	FIG01085109: hypothetical protein
SCE1572_6452	FIG01085109: hypothetical protein	uni	sce_3939	84.5	FIG01085109: hypothetical protein
SCE1572_6453	hypothetical protein	-		0	
SCE1572_6454	Mobile element protein	uni	sce_1676	89.64	Mobile element protein
SCE1572_6455	hypothetical protein	-		0	
SCE1572_6456	hypothetical protein	-		0	
SCE1572_6457	Exonuclease SbcC	bi	sce_5452	85.47	Exonuclease SbcC
SCE1572_6458	hypothetical protein	uni	sce_9562	56.03	Collagen triple helix repeat
SCE1572_6459	hypothetical protein	uni	sce_4539	35.77	FIG01086337: hypothetical protein
SCE1572_6460	hypothetical protein	uni	sce_5572	59.15	Flagellar hook-length control protein FliK
SCE1572_6461	Arabinan endo-1,5-alpha-L-arabinosidase (EC 3.2.1.99)	uni	sce_1647	45.25	Arabinan endo-1,5-alpha-L-arabinosidase (EC 3.2.1.99)
SCE1572_6462	serine/threonine protein kinase	uni	sce_3282	47.27	serine/threonine protein kinase
SCE1572_6463	hypothetical protein	-		0	
SCE1572_6464	Extensin-like protein precursor	bi	sce_5437	71.29	Extensin-like protein precursor
SCE1572_6465	FIG01086011: hypothetical protein	bi	sce_5438	84.18	FIG01086011: hypothetical protein
SCE1572_6466	RNA polymerase sigma factor RpoE	bi	sce_5439	91.52	RNA polymerase sigma factor RpoE
SCE1572_6467	FIG01085133: hypothetical protein	bi	sce_5440	81.87	FIG01085133: hypothetical protein
SCE1572_6468	Cellulose synthase catalytic subunit	bi	sce_5441	89.5	Cellulose synthase catalytic subunit
SCE1572_6469	Endoglucanase H precursor (EC 3.2.1.4) (EgH) (Endo-1,4-beta-glucanase H) (Cellulase H)	bi	sce_5442	88.4	Endoglucanase H precursor (EC 3.2.1.4) (EgH) (Endo-1,4-beta-glucanase H) (Cellulase H)
SCE1572_6470	Glucose-1-phosphate cytidylyltransferase (EC 2.7.7.33)	bi	sce_5443	94.49	Glucose-1-phosphate cytidylyltransferase (EC 2.7.7.33)
SCE1572_6471	Similar to CDP-glucose 4,6-dehydratase (EC 4.2.1.45)	bi	sce_5444	91.27	Similar to CDP-glucose 4,6-dehydratase (EC 4.2.1.45)
SCE1572_6472	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_5445	88.06	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_6473	RsbR, positive regulator of sigma-B	uni	sce_8231	50.66	RsbR, positive regulator of sigma-B
SCE1572_6474	hypothetical protein	-		0	
SCE1572_6475	cytochrome P450	uni	sce_2437	34.29	cytochrome P450
SCE1572_6476	hypothetical protein	-		0	
SCE1572_6477	hypothetical protein	-		0	
SCE1572_6478	FIG01088963: hypothetical protein	bi	sce_2488	80	FIG01088963: hypothetical protein
SCE1572_6479	hydrophobic amino acid ABC transporter (HAAT) family, amino acid-binding protein	-		0	
SCE1572_6480	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins	uni	sce_10228	30.57	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins
SCE1572_6481	hypothetical protein	uni	sce_4904	29.52	FOG: WD40-like repeat
SCE1572_6482	Probable ATP-binding protein NMA0346	bi	sce_5451	86.67	Probable ATP-binding protein NMA0346
SCE1572_6483	hypothetical protein	-		0	
SCE1572_6484	Two-component sensor histidine kinase	bi	sce_5454	86.69	Two-component sensor histidine kinase
SCE1572_6485	two-component response regulator	bi	sce_5455	94.44	two-component transcriptional regulator (OmpR family), BaeR/ChvL/OmpR-like protein
SCE1572_6486	hypothetical protein	bi	sce_5456	89.36	hypothetical protein
SCE1572_6487	hypothetical protein	bi	sce_5457	78.4	hypothetical protein
SCE1572_6488	FIG01085949: hypothetical protein	bi	sce_5458	76.38	FIG01085949: hypothetical protein
SCE1572_6489	FIG01086453: hypothetical protein	uni	sce_1071	66.3	FIG01086453: hypothetical protein
SCE1572_6490	FIG01085939: hypothetical protein	bi	sce_2076	94.97	FIG01085939: hypothetical protein
SCE1572_6491	hypothetical protein	-		0	
SCE1572_6492	transcriptional regulator, AraC family	bi	sce_2078	90.07	transcriptional regulator, AraC family
SCE1572_6493	Glyoxalase/bleomycin resistance protein/dioxygenase	bi	sce_2079	82.25	hypothetical protein, bleomycin resistance protein family
SCE1572_6494	hypothetical protein	-		0	
SCE1572_6495	hypothetical protein	-		0	
SCE1572_6496	bacterial Ig-like domain protein	uni	sce_7612	44.44	FIG01086551: hypothetical protein
SCE1572_6497	Twin-arginine translocation protein TatB	uni	sce_3392	40.44	integral membrane protein
SCE1572_6498	2-isopropylmalate synthase (EC 2.3.3.13)	bi	sce_5461	87.57	2-isopropylmalate synthase (EC 2.3.3.13)
SCE1572_6499	hypothetical protein	uni	sce_4382	50	PE-PGRS FAMILY PROTEIN
SCE1572_6500	hypothetical protein	uni	sce_10425	49.54	AAA ATPase
SCE1572_6501	hypothetical protein	uni	sce_10425	57.78	AAA ATPase
SCE1572_6502	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_3006	54.5	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_6503	hypothetical protein	-		0	
SCE1572_6504	Short-chain dehydrogenase/reductase SDR	uni	sce_1873	39.69	Short-chain dehydrogenase/reductase SDR
SCE1572_6505	Hypothetical transcriptional regulator YqhC	uni	sce_1564	37.5	Transcriptional regulator, AraC family
SCE1572_6506	hypothetical protein	-		0	
SCE1572_6507	succinoglycan biosynthesis	uni	sce_6084	26.37	Protein-L-isoaspartate O-methyltransferase (EC 2.1.1.77)
SCE1572_6508	hypothetical protein	-		0	
SCE1572_6509	hypothetical protein	bi	sce_3727	78.57	hypothetical protein
SCE1572_6510	hypothetical protein	-		0	
SCE1572_6511	acetyltransferase, GNAT family	bi	sce_9988	84.23	acetyltransferase, GNAT family
SCE1572_6512	cytochrome P450	bi	sce_5465	90.54	cytochrome P450
SCE1572_6513	hypothetical protein	-		0	
SCE1572_6514	Enoyl-[acyl-carrier-protein] reductase [NADPH] (EC 1.3.1.10)	bi	sce_5467	79.2	Enoyl-[acyl-carrier-protein] reductase [NADPH] (EC 1.3.1.10)
SCE1572_6515	4'-phosphopantetheinyl transferase family protein	bi	sce_5468	90.16	4'-phosphopantetheinyl transferase family protein
SCE1572_6516	FIG01088651: hypothetical protein	bi	sce_5469	75.16	FIG01088651: hypothetical protein
SCE1572_6517	COG1846: Transcriptional regulators	bi	sce_5471	77.17	transcriptional regulator, MarR family
SCE1572_6518	Superoxide dismutase [Fe] (EC 1.15.1.1)	uni	sce_4677	52.53	Superoxide dismutase [Fe] (EC 1.15.1.1)
SCE1572_6519	sigma-B regulator RsbR	uni	sce_7786	42.6	FIG00502110: hypothetical protein
SCE1572_6520	Mlr5400 protein	bi	sce_5493	81.17	Mlr5400 protein
SCE1572_6521	FIG01087331: hypothetical protein	bi	sce_5494	86.15	FIG01087331: hypothetical protein
SCE1572_6522	hypothetical protein	-		0	
SCE1572_6523	Heat shock protein 60 family chaperone GroEL	uni	sce_1495	77.05	Collagen triple helix repeat
SCE1572_6524	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_5495	73.52	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_6525	DGPFAETKE family protein	bi	sce_1706	81.76	PhnB protein
SCE1572_6526	oxidoreductase, short chain dehydrogenase/reductase family superfamily	uni	sce_3864	38.75	short-chain dehydrogenase/reductase SDR
SCE1572_6527	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	-		0	
SCE1572_6528	Transcriptional regulator, AraC family	uni	sce_1358	40.19	Transcriptional regulator, AraC family
SCE1572_6529	AttM/AiiB family protein	uni	sce_9851	25	Beta-lactamase-like precursor
SCE1572_6530	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	bi	sce_9960	93.73	Butyryl-CoA dehydrogenase (EC 1.3.99.2)
SCE1572_6531	Predicted aminoglycoside phosphotransferase	bi	sce_9961	90.28	Predicted aminoglycoside phosphotransferase
SCE1572_6532	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	uni	sce_7206	58.31	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)
SCE1572_6533	hypothetical protein	-		0	
SCE1572_6534	hypothetical protein	uni	sce_1171	49.16	FIG01089390: hypothetical protein
SCE1572_6535	hypothetical protein	bi	sce_1172	66.45	hypothetical protein
SCE1572_6536	2',3'-cyclic-nucleotide 2'-phosphodiesterase (EC 3.1.4.16)	uni	sce_7884	24.95	5'-nucleotidase (EC 3.1.3.5)
SCE1572_6537	aminoglycoside N3-acetyltransferase	-		0	
SCE1572_6538	Inositol oxygenase (EC 1.13.99.1)	-		0	
SCE1572_6539	hypothetical protein	-		0	
SCE1572_6540	hypothetical protein	-		0	
SCE1572_6541	TetR-family transcriptional regulator	bi	sce_5497	81.75	TetR-family transcriptional regulator
SCE1572_6542	Urea carboxylase-related aminomethyltransferase (EC 2.1.2.10)	bi	sce_5498	92.91	Urea carboxylase-related aminomethyltransferase (EC 2.1.2.10)
SCE1572_6543	Urea carboxylase-related aminomethyltransferase (EC 2.1.2.10)	bi	sce_5499	94.64	Urea carboxylase-related aminomethyltransferase (EC 2.1.2.10)
SCE1572_6544	Urea carboxylase (EC 6.3.4.6)	bi	sce_5500	90.95	Urea carboxylase (EC 6.3.4.6)
SCE1572_6545	Urea carboxylase-related amino acid permease	bi	sce_5501	88.48	Urea carboxylase-related amino acid permease
SCE1572_6546	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_7642	56.52	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_6547	serine/threonine protein kinase	uni	sce_6094	37.65	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_6548	hypothetical protein	-		0	
SCE1572_6549	InterPro IPR000792:IPR001789 COGs COG2197	uni	sce_6078	40.09	DNA-binding response regulator, LuxR family
SCE1572_6550	FIG01085516: hypothetical protein	uni	sce_1454	82.37	FIG01085516: hypothetical protein
SCE1572_6551	Basic proline-rich protein	bi	sce_5511	72.97	hypothetical protein
SCE1572_6552	HlyD family secretion protein	bi	sce_5843	70.27	hypothetical protein
SCE1572_6553	hypothetical protein	-		0	
SCE1572_6554	hypothetical protein	-		0	
SCE1572_6555	PE-PGRS FAMILY PROTEIN	uni	sce_6870	67.37	PE-PGRS FAMILY PROTEIN
SCE1572_6556	hypothetical protein	uni	sce_6813	54.68	hypothetical protein
SCE1572_6557	FIG01088083: hypothetical protein	bi	sce_5514	81.92	FIG01088083: hypothetical protein

SCE1572_6558	Predicted membrane protein/domain	uni	sce_2561	28.02	Predicted membrane protein/domain
SCE1572_6559	hypothetical protein	bi	sce_6328	51.21	RTX family exoprotein
SCE1572_6560	hypothetical protein	-		0	
SCE1572_6561	hypothetical protein	-		0	
SCE1572_6562	hypothetical protein	uni	sce_2034	47.75	FIG01085108: hypothetical protein
SCE1572_6563	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_8328	38.74	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_6564	hypothetical protein	-		0	
SCE1572_6565	transcriptional regulator, AraC-family	uni	sce_9866	42.15	Transcriptional regulator, AraC family
SCE1572_6566	Cardiolipin synthetase (EC 2.7.8.-)	uni	sce_7289	38.19	Cardiolipin synthetase (EC 2.7.8.-)
SCE1572_6567	putative oxidoreductase, mmyg	uni	sce_6003	27.81	NAD binding oxidoreductase
SCE1572_6568	Transcriptional regulator, TetR family	uni	sce_7595	32.48	Transcriptional regulator, TetR family
SCE1572_6569	putative RNA polymerase sigma factor	uni	sce_8821	37.36	RNA polymerase sigma-70 factor, ECF subfamily
SCE1572_6570	hypothetical protein	bi	sce_6017	57.96	Putative secreted protein
SCE1572_6571	Transcriptional regulator, ArsR family	bi	sce_9879	100	Transcriptional regulator, ArsR family
SCE1572_6572	Probable glutathione S-transferase-related transmembrane protein (EC 2.5.1.18)	bi	sce_9878	96.82	hypothetical protein
SCE1572_6573	conserved hypothetical protein-putative thiol-disulfide isomerase or thioredoxin	uni	sce_5870	52.24	hypothetical protein
SCE1572_6574	aldo/keto reductase	bi	sce_8429	94.34	hydrolase, HAD-superfamily, subfamily IIIA
SCE1572_6575	hypothetical protein	bi	sce_5136	56.44	hypothetical protein
SCE1572_6576	Transcriptional regulator, AraC family	bi	sce_9599	87.15	Transcriptional regulator, AraC family
SCE1572_6577	Nucleoside-diphosphate-sugar epimerases	bi	sce_9598	88.47	Nucleoside-diphosphate-sugar epimerases
SCE1572_6578	Aldo-keto reductase	bi	sce_1328	91.34	Aldo-keto reductase
SCE1572_6579	FIG01085734: hypothetical protein	bi	sce_9849	60.1	FIG01085734: hypothetical protein
SCE1572_6580	Collagen triple helix repeat	uni	sce_5892	57.44	erythrocyte membrane protein 1 (PfEMP1)
SCE1572_6581	conserved hypothetical protein	uni	sce_6235	69.04	FIG00841528: hypothetical protein
SCE1572_6582	CTP synthase (EC 6.3.4.2)	bi	sce_5517	89.32	CTP synthase (EC 6.3.4.2)
SCE1572_6583	putative membrane protein	uni	sce_5539	82.23	putative membrane protein
SCE1572_6584	hypothetical protein	-		0	
SCE1572_6585	Signal transduction histidine kinase CheA (EC 2.7.3.-)	uni	sce_6095	41.31	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_6586	hypothetical protein	-		0	
SCE1572_6587	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_9236	53.98	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_6588	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_389	44.28	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_6589	hypothetical protein	-		0	
SCE1572_6590	isrso17-transposase protein	-		0	
SCE1572_6591	Kazal domain protein	uni	sce_2393	89.13	Kazal domain protein
SCE1572_6592	Rrf2 family transcriptional regulator, group III	uni	sce_6432	28.36	Rrf2 family transcriptional regulator, group III
SCE1572_6593	integral membrane transport protein	-		0	
SCE1572_6594	conserved domain protein	bi	sce_3810	27.5	oxidoreductase of aldo/keto reductase family, subgroup 1
SCE1572_6595	hypothetical protein	-		0	
SCE1572_6596	hypothetical protein	uni	sce_5518	55.12	NAD(P)HX epimerase / NAD(P)HX dehydratase
SCE1572_6597	hypothetical protein	bi	sce_5519	94.62	hypothetical protein
SCE1572_6598	hypothetical protein	bi	sce_5520	92.53	conserved hypothetical protein
SCE1572_6599	Pentapeptide repeat	bi	sce_5522	91.48	hypothetical protein
SCE1572_6600	High-affnity carbon uptake protein Hat/HatR	bi	sce_5523	90.45	Pentapeptide repeat
SCE1572_6601	VgrG protein	bi	sce_5524	86.93	VgrG protein
SCE1572_6602	N-formylglutamate amidohydrolase	bi	sce_5526	83.02	N-formylglutamate amidohydrolase
SCE1572_6603	hypothetical protein	bi	sce_5527	70.8	hypothetical protein
SCE1572_6604	Putative hydroxylase	-		0	
SCE1572_6605	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7	uni	sce_2518	32.38	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_6606	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_9491	50.98	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_6607	hypothetical protein	-		0	
SCE1572_6608	hypothetical protein	uni	sce_1045	41.1	hypothetical protein
SCE1572_6609	hypothetical protein	bi	sce_8361	67.92	hypothetical protein
SCE1572_6610	Glutathione S-transferase family protein	bi	sce_803	51.76	Glutathione S-transferase family protein
SCE1572_6611	hypothetical protein	-		0	
SCE1572_6612	hypothetical protein	uni	sce_9009	41.88	hypothetical protein
SCE1572_6613	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	uni	sce_5953	31.41	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_6614	Type III effector HrpW, hairpin with pectate lyase domain	bi	sce_5529	80.42	Type III effector HrpW, hairpin with pectate lyase domain
SCE1572_6615	glyoxalase/bleomycin resistance protein/dioxygenase	uni	sce_5762	64.71	Glyoxalase/bleomycin resistance protein/dioxygenase
SCE1572_6616	Asparagine synthetase [glutamine-hydrolyzing] (EC 6.3.5.4)	bi	sce_5530	80.03	Asparagine synthetase [glutamine-hydrolyzing] (EC 6.3.5.4)
SCE1572_6617	Endoribonuclease L-PSP	bi	sce_7059	88.37	Endoribonuclease L-PSP
SCE1572_6618	Transcriptional regulator, LysR family	uni	sce_6071	36.43	Transcriptional regulator, LysR family
SCE1572_6619	hypothetical protein	bi	sce_7066	58.33	hypothetical protein
SCE1572_6620	Predicted reductase RutE in novel pyrimidine catabolism pathway	-		0	
SCE1572_6621	hypothetical protein	-		0	
SCE1572_6622	hypothetical protein	-		0	
SCE1572_6623	hypothetical protein	-		0	
SCE1572_6624	endonuclease/exonuclease/phosphatase family	bi	sce_169	36.87	endonuclease/exonuclease/phosphatase family
SCE1572_6625	hypothetical protein	bi	sce_9401	35.96	FIG01087747: hypothetical protein
SCE1572_6626	hypothetical protein	uni	sce_9402	34.69	hypothetical protein
SCE1572_6627	hypothetical protein	bi	sce_9402	41.07	hypothetical protein
SCE1572_6628	conserved hypothetical protein	uni	sce_9338	30.36	hypothetical protein
SCE1572_6629	hypothetical protein	bi	sce_3602	49.67	hypothetical protein
SCE1572_6630	Transcriptional regulator, TetR family	bi	sce_3603	72.16	Transcriptional regulator, TetR family
SCE1572_6631	Ferredoxin	-		0	
SCE1572_6632	putative cytochrome P450 hydroxylase	uni	sce_8024	33.84	putative cytochrome P450 hydroxylase
SCE1572_6633	hypothetical protein	-		0	
SCE1572_6634	High-affnity carbon uptake protein Hat/HatR	bi	sce_9373	68.96	NB-ARC domain protein
SCE1572_6635	hypothetical protein	uni	sce_3858	39.5	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_6636	hypothetical protein	-		0	
SCE1572_6637	Flagellar regulatory protein FleQ	uni	sce_5710	71.31	Flagellar regulatory protein FleQ
SCE1572_6638	serine/threonine protein kinase	uni	sce_7827	42.23	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_6639	hypothetical protein	-		0	
SCE1572_6640	Cyclohexanone monooxygenase (EC 1.14.13.22)	bi	sce_5538	84.83	Cyclohexanone monooxygenase (EC 1.14.13.22)
SCE1572_6641	putative membrane protein	bi	sce_5539	83.85	putative membrane protein
SCE1572_6642	FIG01086315: hypothetical protein	bi	sce_5540	86.21	FIG01086315: hypothetical protein
SCE1572_6643	hypothetical protein	bi	sce_5541	80.52	FIG01087323: hypothetical protein
SCE1572_6644	hypothetical protein	-		0	
SCE1572_6645	Very large tegument protein	bi	sce_1705	64.6	Very large tegument protein
SCE1572_6646	FIG01087241: hypothetical protein	bi	sce_2523	92.59	hypothetical protein
SCE1572_6647	hypothetical protein	-		0	
SCE1572_6648	hypothetical protein	-		0	
SCE1572_6649	hypothetical protein	-		0	
SCE1572_6650	putative dioxygenase	bi	sce_1704	74.39	putative dioxygenase
SCE1572_6651	hypothetical protein	bi	sce_7113	57.89	FIG01089302: hypothetical protein
SCE1572_6652	sensor histidine kinase	bi	sce_7114	48.48	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)
SCE1572_6653	hypothetical protein	bi	sce_5545	89.66	hypothetical protein
SCE1572_6654	Multiple EGF-like-domain protein 3 precursor	bi	sce_5546	73.93	Multiple EGF-like-domain protein 3 precursor
SCE1572_6655	Permeases of the major facilitator superfamily	bi	sce_5551	78.8	Permeases of the major facilitator superfamily
SCE1572_6656	EBNA-1	uni	sce_4770	52.5	hypothetical protein
SCE1572_6657	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_248	37.36	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_6658	hypothetical protein	-		0	
SCE1572_6659	Phytanoyl-CoA dioxygenase	uni	sce_8487	26.82	FIG00840231: hypothetical protein
SCE1572_6660	probable methyltransferase	uni	sce_10042	40.48	NADH-FMN oxidoreductase
SCE1572_6661	AknN	uni	sce_5801	41.35	AknN
SCE1572_6662	serine/threonine kinase with two-component sensor domain	uni	sce_6535	30.92	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_6663	FIG01044843: hypothetical protein	bi	sce_5556	83	FIG01044843: hypothetical protein
SCE1572_6664	Adenylate cyclase (EC 4.6.1.1)	uni	sce_6236	49.12	RsbR, positive regulator of sigma-B
SCE1572_6665	multi-sensor hybrid histidine kinase	bi	sce_5554	90.71	PAS
SCE1572_6666	PAS	bi	sce_5555	81.38	PAS
SCE1572_6667	epoxide hydrolase	uni	sce_3912	32.6	Epoxide hydrolase (EC 3.3.2.9)
SCE1572_6668	Na? antiporter NhaD and related arsenite permease	bi	sce_9809	94.38	hypothetical protein
SCE1572_6669	putative carboxylesterase	bi	sce_9810	86.02	putative carboxylesterase
SCE1572_6670	hypothetical protein	bi	sce_9811	91.33	hypothetical protein
SCE1572_6671	NHL repeat protein	bi	sce_5917	39.9	FIG01086804: hypothetical protein
SCE1572_6672	hypothetical protein	-		0	
SCE1572_6673	hypothetical protein	bi	sce_5558	81.56	hypothetical protein
SCE1572_6674	transcriptional regulator	uni	sce_1100	29.09	Transcriptional regulator, GntR family / Transcriptional regulator, TetR family
SCE1572_6675	hypothetical protein	bi	sce_5570	60	Oxygenase
SCE1572_6676	FIG01087606: hypothetical protein	bi	sce_5560	71	FIG01087606: hypothetical protein
SCE1572_6677	RsbR, positive regulator of sigma-B	bi	sce_5181	48.55	RsbR, positive regulator of sigma-B
SCE1572_6678	FIG01086953: hypothetical protein	bi	sce_5561	72.58	FIG01089423: hypothetical protein
SCE1572_6679	hypothetical protein	-		0	
SCE1572_6680	Glutathione S-transferase (EC 2.5.1.18)	bi	sce_5562	78.97	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_6681	transcriptional regulator (LysR family)	bi	sce_5563	86.02	transcriptional regulator, LysR family
SCE1572_6682	hypothetical protein	uni	sce_1706	50	PhnB protein
SCE1572_6683	N-acetyl-gamma-glutamyl-phosphate reductase (EC 1.2.1.38)	bi	sce_5564	93.33	N-acetyl-gamma-glutamyl-phosphate reductase (EC 1.2.1.38)
SCE1572_6684	N-acetyl-L,L-diaminopimelate deacetylase (EC 3.5.1.47)	bi	sce_5568	95.35	N-acetyl-L,L-diaminopimelate deacetylase (EC 3.5.1.47)
SCE1572_6685	proton/sodium-glutamate symport protein	uni	sce_3961	25.61	Proton/glutamate symport protein @ Sodium/glutamate symport protein
SCE1572_6686	hypothetical protein	-		0	
SCE1572_6687	Hemoglobin-like protein HbO	bi	sce_5569	92.48	Hemoglobin-like protein HbO
SCE1572_6688	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins	bi	sce_5086	70.73	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins
SCE1572_6689	hypothetical protein	-		0	
SCE1572_6690	conserved hypothetical protein	-		0	
SCE1572_6691	Asr9028 protein	bi	sce_10016	85.94	hypothetical protein
SCE1572_6692	DNA repair protein RadC	uni	sce_8398	62.86	DNA repair protein RadC
SCE1572_6693	hypothetical protein	-		0	
SCE1572_6694	FIG01087754: hypothetical protein	bi	sce_2414	82.98	FIG01087754: hypothetical protein
SCE1572_6695	S-adenosylmethionine:tRNA ribosyltransferase-isomerase (EC 5.-.-.-)	bi	sce_5574	92.35	S-adenosylmethionine:tRNA ribosyltransferase-isomerase (EC 5.-.-.-)
SCE1572_6696	Oxidoreductase, short chain dehydrogenase/reductase family	bi	sce_5575	88.3	Oxidoreductase, short chain dehydrogenase/reductase family
SCE1572_6697	DNA-binding protein	bi	sce_5576	96.77	DNA-binding protein
SCE1572_6698	hypothetical protein	uni	sce_1612	42.11	Chitinase (EC 3.2.1.14)
SCE1572_6699	dTDP-4-dehydrorhamnose reductase (EC 1.1.1.133)	uni	sce_3427	63.41	dTDP-4-dehydrorhamnose reductase (EC 1.1.1.133)
SCE1572_6700	Galactokinase (EC 2.7.1.6)	bi	sce_2475	88.3	Galactokinase (EC 2.7.1.6)
SCE1572_6701	Beta-galactosidase (EC 3.2.1.23)	uni	sce_3424	67.41	Beta-galactosidase (EC 3.2.1.23)
SCE1572_6702	UDP-galactopyranose mutase (EC 5.4.99.9)	uni	sce_3426	69.47	UDP-galactopyranose mutase (EC 5.4.99.9)
SCE1572_6703	Glycosyltransferase	uni	sce_3425	58.92	Glycosyltransferase
SCE1572_6704	Lysine decarboxylase family	bi	sce_5577	85.2	Lysine decarboxylase family
SCE1572_6705	Uncharacterized protein ImpC	bi	sce_5578	97.57	Uncharacterized protein ImpC
SCE1572_6706	Uncharacterized protein ImpB	bi	sce_5579	98.77	Uncharacterized protein ImpB
SCE1572_6707	hypothetical protein	-		0	
SCE1572_6708	Uncharacterized protein ImpA	bi	sce_5580	78.23	Uncharacterized protein ImpA
SCE1572_6709	hypothetical protein	bi	sce_5581	94.44	hypothetical protein
SCE1572_6710	IcmF-related protein	bi	sce_5582	91.53	IcmF-related protein
SCE1572_6711	Probable transmembrane protein	bi	sce_5583	98.67	Probable transmembrane protein
SCE1572_6712	Uncharacterized protein ImpJ/VasE	bi	sce_5584	91.61	Uncharacterized protein ImpJ/VasE
SCE1572_6713	Type VI secretion lipoprotein/VasD	bi	sce_5585	88.51	Type VI secretion lipoprotein/VasD
SCE1572_6714	ClpB protein	bi	sce_5586	96.88	ClpB protein
SCE1572_6715	Membrane-bound lytic murein transglycosylase D precursor (EC 3.2.1.-)	bi	sce_5587	81.98	Membrane-bound lytic murein transglycosylase D precursor (EC 3.2.1.-)
SCE1572_6716	Uncharacterized protein ImpI/VasC	bi	sce_5588	94.88	Uncharacterized protein ImpI/VasC
SCE1572_6717	hypothetical protein	bi	sce_5589	90.91	hypothetical protein
SCE1572_6718	hypothetical protein	-		0	
SCE1572_6719	putative lipoprotein	bi	sce_5590	94.32	hypothetical protein
SCE1572_6720	Hcp protein	bi	sce_5592	81.55	Hcp protein
SCE1572_6721	hcp protein	bi	sce_5593	89.66	hcp protein

SCE1572_6722	Uncharacterized protein similar to VCA0109	bi	sce_5594	93.57	Uncharacterized protein similar to VCA0109
SCE1572_6723	Protein ImpG/VasA	bi	sce_5595	96.77	Protein ImpG/VasA
SCE1572_6724	Uncharacterized protein ImpH/VasB	bi	sce_5596	92.57	Uncharacterized protein ImpH/VasB
SCE1572_6725	FIG01086198: hypothetical protein	bi	sce_5597	89.91	FIG01086198: hypothetical protein
SCE1572_6726	hypothetical protein	bi	sce_5598	86.39	hypothetical protein
SCE1572_6727	hypothetical protein	bi	sce_5599	57.98	hypothetical protein
SCE1572_6728	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase (EC 2.6.1.62)	bi	sce_5600	67.72	hypothetical protein
SCE1572_6729	hypothetical protein	bi	sce_5601	69.57	hypothetical protein
SCE1572_6730	ATP-dependent protease La (EC 3.4.21.53) Type I	bi	sce_5602	98.78	ATP-dependent protease La (EC 3.4.21.53) Type I
SCE1572_6731	hypothetical protein	bi	sce_5603	69.09	hypothetical protein
SCE1572_6732	Sulfatase modifying factor 2 precursor (C-alpha-formyglycine- generating enzyme 2)	bi	sce_5604	87.81	Sulfatase-modifying factor 2 precursor (C-alpha-formyglycine-generating enzyme 2)
SCE1572_6733	Methionyl-tRNA formyltransferase (EC 2.1.2.9)	bi	sce_5605	90.03	Methionyl-tRNA formyltransferase (EC 2.1.2.9)
SCE1572_6734	Aldehyde dehydrogenase (EC 1.2.1.3)	bi	sce_5606	94.54	Aldehyde dehydrogenase (EC 1.2.1.3)
SCE1572_6735	Aldehyde dehydrogenase (EC 1.2.1.3)	bi	sce_5607	94.2	Aldehyde dehydrogenase (EC 1.2.1.3)
SCE1572_6736	Deoxyribose-phosphate aldolase (EC 4.1.2.4)	bi	sce_5608	94.7	Deoxyribose-phosphate aldolase (EC 4.1.2.4)
SCE1572_6737	Thiol peroxidase, Bcp-type (EC 1.11.1.15)	bi	sce_5609	86.29	Thiol peroxidase, Bcp-type (EC 1.11.1.15)
SCE1572_6738	Alpha/beta hydrolase fold	bi	sce_5610	84.69	Alpha/beta hydrolase fold
SCE1572_6739	hypothetical protein	-		0	
SCE1572_6740	FIG01087377: hypothetical protein	bi	sce_1003	84.94	FIG01087377: hypothetical protein
SCE1572_6741	hypothetical protein	uni	sce_10158	25	hypothetical protein
SCE1572_6742	putative eukaryotic-type serine/threonine protein kinase	bi	sce_5614	70.17	putative eukaryotic-type serine/threonine protein kinase
SCE1572_6743	FIG01088996: hypothetical protein	bi	sce_5615	88.54	FIG01088996: hypothetical protein
SCE1572_6744	RNA polymerase sigma factor for flagellar operon	bi	sce_5616	81.15	RNA polymerase sigma factor for flagellar operon
SCE1572_6745	protein of unknown function DUF433	-		0	
SCE1572_6746	conserved hypothetical protein	-		0	
SCE1572_6747	hypothetical protein	-		0	
SCE1572_6748	hypothetical protein	-		0	
SCE1572_6749	hypothetical protein	-		0	
SCE1572_6750	Alcohol dehydrogenase (EC 1.1.1.1)	bi	sce_5627	90.67	Alcohol dehydrogenase (EC 1.1.1.1)
SCE1572_6751	hypothetical protein	-		0	
SCE1572_6752	hypothetical protein	-		0	
SCE1572_6753	hypothetical protein	-		0	
SCE1572_6754	hypothetical protein	-		0	
SCE1572_6755	hypothetical protein	bi	sce_10428	79.67	hypothetical protein
SCE1572_6756	hypothetical protein	bi	sce_10429	56.36	hypothetical protein
SCE1572_6757	Mlr2351 protein	bi	sce_10430	59.94	Mlr2351 protein
SCE1572_6758	FOG: HEAT repeat	uni	sce_1339	55.21	FOG: HEAT repeat
SCE1572_6759	Mll2356 protein	bi	sce_5628	83.1	Mll2356 protein
SCE1572_6760	VgrG protein	uni	sce_1338	64.86	VgrG protein
SCE1572_6761	FIG01089095: hypothetical protein	uni	sce_1340	48.8	FIG01089095: hypothetical protein
SCE1572_6762	hypothetical protein	-		0	
SCE1572_6763	Beta-xylosidase (EC 3.2.1.37)	uni	sce_137	36.13	Beta-xylosidase (EC 3.2.1.37)
SCE1572_6764	radical SAM/B12 binding domain protein	bi	sce_5629	93.7	hypothetical protein
SCE1572_6765	HNH endonuclease	-		0	
SCE1572_6766	hypothetical protein	-		0	
SCE1572_6767	hypothetical protein	-		0	
SCE1572_6768	hypothetical protein	bi	sce_5447	44.17	FIG01084967: hypothetical protein
SCE1572_6769	Ferredoxin	bi	sce_5632	95.4	Ferredoxin
SCE1572_6770	protein of unknown function DUF1328	bi	sce_5634	96.3	Protein of unknown function DUF1328
SCE1572_6771	Autotransporter subtilisin-like protease	bi	sce_5635	63.81	Autotransporter subtilisin-like protease
SCE1572_6772	hypothetical protein	-		0	
SCE1572_6773	Mll1661 protein	bi	sce_5637	82.11	hypothetical protein
SCE1572_6774	FIG01086458: hypothetical protein	bi	sce_5638	78.67	FIG01086458: hypothetical protein
SCE1572_6775	hypothetical protein	-		0	
SCE1572_6776	FIG01088413: hypothetical protein	bi	sce_5639	66.27	FIG01088413: hypothetical protein
SCE1572_6777	Collagen triple helix repeat	bi	sce_5640	46.11	FIG01089683: hypothetical protein
SCE1572_6778	RNA polymerase sigma factor RpoE	bi	sce_5641	81.38	RNA polymerase sigma factor RpoE
SCE1572_6779	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_5642	61.63	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_6780	hypothetical protein	-		0	
SCE1572_6781	hypothetical protein	bi	sce_5643	85.48	hypothetical protein
SCE1572_6782	hypothetical protein	bi	sce_5644	80.51	hypothetical protein
SCE1572_6783	Cell division inhibitor	bi	sce_5645	92.7	Cell division inhibitor
SCE1572_6784	hypothetical protein	uni	sce_7568	27.58	FIG01087433: hypothetical protein
SCE1572_6785	hypothetical protein	-		0	
SCE1572_6786	HipA protein	-		0	
SCE1572_6787	Maltose/maltodextrin ABC transporter, permease protein MalG	bi	sce_5646	91.07	Maltose/maltodextrin ABC transporter, permease protein MalG
SCE1572_6788	Maltose/maltodextrin ABC transporter, permease protein MalF	bi	sce_5647	88.03	Maltose/maltodextrin ABC transporter, permease protein MalF
SCE1572_6789	Maltose/maltodextrin ABC transporter, substrate binding periplasmic protein MalE	bi	sce_5648	89.72	Maltose/maltodextrin ABC transporter, substrate binding periplasmic protein MalE
SCE1572_6790	hypothetical protein	-		0	
SCE1572_6791	DNA mismatch repair protein MutL	uni	sce_6428	46.58	Cellulase(EC:3.2.1.4)
SCE1572_6792	Isochorismate synthase (EC 5.4.4.2) of siderophore biosynthesis	bi	sce_5650	91.31	Isochorismate synthase (EC 5.4.4.2) of siderophore biosynthesis
SCE1572_6793	Anthranilate synthase, aminase component (EC 4.1.3.27) / Anthranilate synthase, amidotransferase component (EC 4.1.3.27)	bi	sce_5652	91.74	Anthranilate synthase, aminase component (EC 4.1.3.27) / Anthranilate synthase, amidotransferase component (EC 4.1.3.27)
SCE1572_6794	FIG01088914: hypothetical protein	bi	sce_5653	82.85	FIG01088914: hypothetical protein
SCE1572_6795	Argininosuccinate synthase (EC 6.3.4.5)	bi	sce_5654	97.78	Argininosuccinate synthase (EC 6.3.4.5)
SCE1572_6796	putative membrane protein	bi	sce_5655	89.08	putative membrane protein
SCE1572_6797	Aldo-keto reductase	bi	sce_5656	93.27	Aldo-keto reductase
SCE1572_6798	DNA mismatch repair protein MutS	bi	sce_5657	90.19	DNA mismatch repair protein MutS
SCE1572_6799	large Ala/Glu-rich protein	bi	sce_5658	60.53	large Ala/Glu-rich protein
SCE1572_6800	serine/threonine protein kinase	bi	sce_5660	81	serine/threonine protein kinase
SCE1572_6801	ubiquinone/menaquinone biosynthesis methyltransferases	uni	sce_10042	39.5	NADH-FMN oxidoreductase
SCE1572_6802	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)	bi	sce_5662	95.75	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)
SCE1572_6803	Endonuclease III (EC 4.2.99.18)	bi	sce_5663	93.27	Endonuclease III (EC 4.2.99.18)
SCE1572_6804	putative lipoprotein	bi	sce_5664	83.74	putative lipoprotein
SCE1572_6805	collagen triple helix repeat domain protein, putative	uni	sce_5665	69.78	putative lipoprotein
SCE1572_6806	FIG01086887: hypothetical protein	bi	sce_5666	84.97	FIG01086887: hypothetical protein
SCE1572_6807	4'-phosphopantetheinyl transferase (EC 2.7.8.-)	bi	sce_5667	93.06	4'-phosphopantetheinyl transferase (EC 2.7.8.-)
SCE1572_6808	putative SimX4 homolog	bi	sce_5668	90.94	putative SimX4 homolog
SCE1572_6809	Glutamate synthase [NADPH] large chain (EC 1.4.1.13)	bi	sce_5669	95.24	Glutamate synthase [NADPH] large chain (EC 1.4.1.13)
SCE1572_6810	Glutamate synthase [NADPH] small chain (EC 1.4.1.13)	bi	sce_5670	94.36	Glutamate synthase [NADPH] small chain (EC 1.4.1.13)
SCE1572_6811	Threonine dehydrogenase and related Zn-dependent dehydrogenases	bi	sce_5671	89.76	Threonine dehydrogenase and related Zn-dependent dehydrogenases
SCE1572_6812	hypothetical protein	bi	sce_5672	63.04	hypothetical protein
SCE1572_6813	SCARECROW gene regulator-like	bi	sce_5673	94.72	SCARECROW gene regulator-like
SCE1572_6814	Two-component system regulatory protein	bi	sce_5675	92.24	Two-component system regulatory protein
SCE1572_6815	FIG01089275: hypothetical protein	bi	sce_5677	85.68	FIG01089275: hypothetical protein
SCE1572_6816	TonB-dependent receptor	bi	sce_5678	81.34	TonB-dependent receptor
SCE1572_6817	Tol biopolymer transport system, TolR protein	bi	sce_5679	91.03	Tol biopolymer transport system, TolR protein
SCE1572_6818	Biopolymer transport protein ExbD/TolR	bi	sce_5680	95.27	Biopolymer transport protein ExbD/TolR
SCE1572_6819	MotA/TolQ/ExbB proton channel family protein	bi	sce_5681	94.47	MotA/TolQ/ExbB proton channel family protein
SCE1572_6820	Ferric siderophore transport system, periplasmic binding protein TonB	bi	sce_5682	80.54	Ferric siderophore transport system, periplasmic binding protein TonB
SCE1572_6821	Phosphate regulon transcriptional regulatory protein PhoB (SphR)	bi	sce_5683	96.54	Phosphate regulon transcriptional regulatory protein PhoB (SphR)
SCE1572_6822	Serine acetyltransferase (EC 2.3.1.30)	bi	sce_5684	93.65	Serine acetyltransferase (EC 2.3.1.30)
SCE1572_6823	putative membrane protein	bi	sce_5685	94.96	putative membrane protein
SCE1572_6824	Outer membrane lipoprotein carrier protein LolA	bi	sce_5686	92.67	Outer membrane lipoprotein carrier protein LolA
SCE1572_6825	hypothetical protein	-		0	
SCE1572_6826	Crossover junction endodeoxyribonuclease RuvC (EC 3.1.22.4)	bi	sce_5687	97.21	Crossover junction endodeoxyribonuclease RuvC (EC 3.1.22.4)
SCE1572_6827	Glycolate dehydrogenase (EC 1.1.99.14), subunit GlcD	bi	sce_5688	95.22	Glycolate dehydrogenase (EC 1.1.99.14), subunit GlcD
SCE1572_6828	FIG01086522: hypothetical protein	bi	sce_5689	85.95	FIG01086522: hypothetical protein
SCE1572_6829	hypothetical protein	bi	sce_5690	76.67	hypothetical protein
SCE1572_6830	hypothetical protein	-		0	
SCE1572_6831	conserved hypothetical protein	bi	sce_5691	75.96	Cellulase(EC:3.2.1.4)
SCE1572_6832	FIG01087100: hypothetical protein	bi	sce_5694	79.22	FIG01087100: hypothetical protein
SCE1572_6833	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_5695	75.95	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_6834	hypothetical protein	-		0	
SCE1572_6835	Pyridoxamine 5'-phosphate oxidase (EC 1.4.3.5)	bi	sce_5696	91.79	Pyridoxamine 5'-phosphate oxidase (EC 1.4.3.5)
SCE1572_6836	HNH endonuclease domain protein	uni	sce_1905	44.74	HNH endonuclease family protein
SCE1572_6837	FIG01166001: hypothetical protein	bi	sce_5697	94.16	FIG01166001: hypothetical protein
SCE1572_6838	Putative bacterial haemoglobin	bi	sce_5698	86.84	Putative bacterial haemoglobin
SCE1572_6839	two component, sigma54 specific, transcriptional regulator, Fis family	uni	sce_5699	85.28	Anaerobic nitric oxide reductase transcription regulator NorR
SCE1572_6840	2'-5' RNA ligase	bi	sce_5700	94.36	2'-5' RNA ligase
SCE1572_6841	Peptidyl-dipeptidase A precursor (EC 3.4.15.1)	bi	sce_5701	84.06	Peptidyl-dipeptidase A precursor (EC 3.4.15.1)
SCE1572_6842	Dual specificity protein phosphatase 23 (EC 3.1.3.48) (EC 3.1.3.16) (Low molecular mass dual specificity phosphatase 3) (LDI	bi	sce_5702	85.76	hypothetical protein
SCE1572_6843	Glutathione S-transferase family protein	bi	sce_5703	85.71	hypothetical protein
SCE1572_6844	Alpha-amylase family protein	bi	sce_5704	94.07	Alpha-amylase family protein
SCE1572_6845	FIG01088991: hypothetical protein	bi	sce_5705	78.95	FIG01088991: hypothetical protein
SCE1572_6846	FIG01087265: hypothetical protein	bi	sce_5706	89.95	FIG01087265: hypothetical protein
SCE1572_6847	Mlr2412 protein	bi	sce_5707	65.37	Mlr2412 protein
SCE1572_6848	Mlr2412 protein	bi	sce_5709	72.2	FIG01086591: hypothetical protein
SCE1572_6849	Flagellar hook-length control protein FliK	bi	sce_5711	75.76	Flagellar hook-length control protein FliK
SCE1572_6850	G:T/U mismatch-specific uracil/thymine DNA-glycosylase	bi	sce_5712	86.63	G:T/U mismatch-specific uracil/thymine DNA-glycosylase
SCE1572_6851	hypothetical protein	bi	sce_5713	73.21	hypothetical protein
SCE1572_6852	hypothetical protein	-		0	
SCE1572_6853	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-); Cyanobacterial phytochrome B	bi	sce_5714	94.49	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-); Cyanobacterial phytochrome B
SCE1572_6854	Outer membrane protein A precursor	bi	sce_5715	82.11	Outer membrane protein A precursor
SCE1572_6855	hypothetical protein	bi	sce_5716	80.92	hypothetical protein
SCE1572_6856	hypothetical protein	bi	sce_5717	88.46	hypothetical protein
SCE1572_6857	FIG01087803: hypothetical protein	bi	sce_5718	79.89	FIG01087803: hypothetical protein
SCE1572_6858	MscS Mechanosensitive ion channel	bi	sce_5719	88.24	Membrane protein
SCE1572_6859	RNA binding protein	bi	sce_5720	56.45	RNA binding protein
SCE1572_6860	Two-component hybrid sensor and regulator	bi	sce_5721	86.96	Two-component hybrid sensor and regulator
SCE1572_6861	hypothetical protein	bi	sce_5723	66.22	hypothetical protein
SCE1572_6862	Serine/threonine protein kinase PknB (EC 2.7.11.1)	bi	sce_5724	71.59	Serine/threonine protein kinase PknB (EC 2.7.11.1)
SCE1572_6863	Cardiolipin synthetase (EC 2.7.8.-)	bi	sce_5725	85.03	Cardiolipin synthetase (EC 2.7.8.-)
SCE1572_6864	hypothetical protein	-		0	
SCE1572_6865	conserved hypothetical protein	bi	sce_5728	85.54	conserved hypothetical protein
SCE1572_6866	tRNA:m(5)U-54 MTase gid	bi	sce_5729	94.58	tRNA:m(5)U-54 MTase gid
SCE1572_6867	DNA topoisomerase I (EC 5.99.1.2)	bi	sce_5730	93.43	DNA topoisomerase I (EC 5.99.1.2)
SCE1572_6868	Rossmann fold nucleotide-binding protein Smf possibly involved in DNA uptake	bi	sce_5731	87.31	Rossmann fold nucleotide-binding protein Smf possibly involved in DNA uptake
SCE1572_6869	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_5732	74.9	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_6870	Exopolyphosphatase-related protein	bi	sce_5733	94.31	Exopolyphosphatase-related protein
SCE1572_6871	Glycerophosphoryl diester phosphodiesterase (EC 3.1.4.46)	bi	sce_5734	87.27	Glycerophosphoryl diester phosphodiesterase (EC 3.1.4.46)
SCE1572_6872	serine/threonine-protein kinase Pkn1(EC:2.7.11.1)	bi	sce_5735	75.45	serine/threonine protein kinase
SCE1572_6873	FIG01086974: hypothetical protein	bi	sce_5737	89.83	FIG01086974: hypothetical protein
SCE1572_6874	transcription termination factor Rho	bi	sce_5738	88.34	hypothetical protein
SCE1572_6875	hypothetical protein	bi	sce_5739	89.89	hypothetical protein
SCE1572_6876	hypothetical protein	bi	sce_5741	85.6	hypothetical protein
SCE1572_6877	Alanyl-tRNA synthetase (EC 6.1.1.7)	bi	sce_5742	94.55	Alanyl-tRNA synthetase (EC 6.1.1.7)
SCE1572_6878	hypothetical protein	bi	sce_5743	86.07	FIG01088207: hypothetical protein
SCE1572_6879	Tropomyosin-1, isoforms 33/34 (Tropomyosin II)	bi	sce_5744	84.16	Tropomyosin-1, isoforms 33/34 (Tropomyosin II)
SCE1572_6880	hypothetical protein	-		0	
SCE1572_6881	outer membrane protein, OmpA/MotB family	uni	sce_77	34.32	outer membrane protein OmpA
SCE1572_6882	hypothetical protein	-		0	
SCE1572_6883	Flagellar motor rotation protein MotB	bi	sce_5745	91.79	Flagellar motor rotation protein MotB
SCE1572_6884	FIG01086922: hypothetical protein	uni	sce_7361	54.79	AAA ATPase
SCE1572_6885	RNA polymerase sigma-70 factor, ECF subfamily	uni	sce_9225	39.78	DNA-directed RNA polymerase specialized sigma subunit, sigma24-like

SCE1572_6886	Putative protein-S-isoprenylcysteine methyltransferase	bi	sce_9736	79.9	Putative protein-S-isoprenylcysteine methyltransferase
SCE1572_6887	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_5746	73.58	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_6888	Mobile element protein	uni	sce_9804	33.04	Mobile element protein
SCE1572_6889	hypothetical protein	-		0	
SCE1572_6890	Phosphoglycerate kinase (EC 2.7.2.3)	uni	sce_8224	44.12	Phosphoglycerate kinase (EC 2.7.2.3)
SCE1572_6891	Phosphoglycerate kinase (EC 2.7.2.3)	uni	sce_8224	40	Phosphoglycerate kinase (EC 2.7.2.3)
SCE1572_6892	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_5751	85.68	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_6893	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_5746	81.24	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_6894	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_5751	80.11	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_6895	hypothetical protein	-		0	
SCE1572_6896	hypothetical protein	uni	sce_3489	62.44	hypothetical protein
SCE1572_6897	Valyl-tRNA synthetase (EC 6.1.1.9)	-		0	
SCE1572_6898	Valyl-tRNA synthetase (EC 6.1.1.9)	bi	sce_5752	92.86	Valyl-tRNA synthetase (EC 6.1.1.9)
SCE1572_6899	Flavodoxin reductases (ferredoxin-NADPH reductases) family 1	bi	sce_5753	92.65	Flavodoxin reductases (ferredoxin-NADPH reductases) family 1
SCE1572_6900	hypothetical protein	-		0	
SCE1572_6901	hypothetical protein	-		0	
SCE1572_6902	Aspartate aminotransferase (EC 2.6.1.1)	uni	sce_9835	36.16	Aspartate aminotransferase (EC 2.6.1.1)
SCE1572_6903	Aromatic-L-amino-acid decarboxylase (EC 4.1.1.28)	uni	sce_2563	32.06	Aromatic-L-amino-acid decarboxylase (EC 4.1.1.28)
SCE1572_6904	hypothetical protein	-		0	
SCE1572_6905	B3/4 domain protein	-		0	
SCE1572_6906	hypothetical protein	-		0	
SCE1572_6907	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_5941	41.2	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_6908	hypothetical protein	-		0	
SCE1572_6909	hypothetical protein	-		0	
SCE1572_6910	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_9236	54.74	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_6911	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_2666	52.81	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_6912	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_9229	57.14	FIG01085400: hypothetical protein
SCE1572_6913	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	uni	sce_7206	54.71	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)
SCE1572_6914	large tegument protein	bi	sce_5755	50.6	hypothetical protein
SCE1572_6915	hypothetical protein	bi	sce_5756	92.5	hypothetical protein
SCE1572_6916	RNA polymerase sigma factor	bi	sce_5761	89.35	RNA polymerase sigma factor
SCE1572_6917	membrane protein	bi	sce_8380	79.75	membrane protein
SCE1572_6918	Glyoxalase/bleomycin resistance protein/dioxygenase	bi	sce_5762	81.75	Glyoxalase/bleomycin resistance protein/dioxygenase
SCE1572_6919	Glutathione S-transferase (EC 2.5.1.18)	bi	sce_8379	84.16	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_6920	hypothetical protein	-		0	
SCE1572_6921	Serine/threonine kinase with two-component sensor domain	bi	sce_2065	94.27	putative sensory box histidine kinase
SCE1572_6922	Transcriptional regulator, ArsR family	bi	sce_1259	52.94	Transcriptional regulator, ArsR family
SCE1572_6923	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_229	49.74	FOG: PAS/PAC domain
SCE1572_6924	hypothetical protein	-		0	
SCE1572_6925	Transcriptional regulator, LysR family	uni	sce_9329	47.65	Transcriptional regulator, LysR family
SCE1572_6926	hypothetical protein	-		0	
SCE1572_6927	two component, sigma54 specific, transcriptional regulator, Fis family	uni	sce_3234	47.89	Type IV fimbriae expression regulatory protein PilR
SCE1572_6928	turgor pressure sensor	uni	sce_1499	31.7	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)
SCE1572_6929	Sulfate permease	bi	sce_5770	32.52	Putative sulfate permease
SCE1572_6930	hypothetical protein	uni	sce_2639	41.38	hypothetical protein
SCE1572_6931	hypothetical protein	-		0	
SCE1572_6932	Probable glutathione S-transferase-related transmembrane protein (EC 2.5.1.18)	bi	sce_5763	77.84	Probable glutathione S-transferase-related transmembrane protein (EC 2.5.1.18)
SCE1572_6933	hypothetical protein	-		0	
SCE1572_6934	hypothetical protein	uni	sce_8806	25.93	hypothetical protein
SCE1572_6935	hypothetical protein	-		0	
SCE1572_6936	hypothetical protein	bi	sce_5309	27.99	FIG01086732: hypothetical protein
SCE1572_6937	hypothetical protein	bi	sce_5766	76.15	hypothetical protein
SCE1572_6938	D-aminopeptidase	-		0	
SCE1572_6939	FIG01087559: hypothetical protein	bi	sce_5767	76.05	FIG01087559: hypothetical protein
SCE1572_6940	DGPF domain protein	bi	sce_5768	88.19	DGPF domain protein
SCE1572_6941	RNA polymerase sigma-70 factor, ECF subfamily	bi	sce_5769	86.67	RNA polymerase sigma-70 factor, ECF subfamily
SCE1572_6942	V8-like Glu-specific endopeptidase	bi	sce_1680	74.16	V8-like Glu-specific endopeptidase
SCE1572_6943	Alcohol dehydrogenase, zinc-binding domain protein(EC:1.6.5.5)	uni	sce_9569	35.29	Quinone oxidoreductase (EC 1.6.5.5)
SCE1572_6944	hypothetical protein	-		0	
SCE1572_6945	hypothetical protein	uni	sce_9883	40	FIG01086649: hypothetical protein
SCE1572_6946	hypothetical protein	bi	sce_5528	65.2	Conserved hypothetical protein 481
SCE1572_6947	hypothetical protein	bi	sce_5773	75.69	hypothetical protein
SCE1572_6948	RsbR, positive regulator of sigma-B	bi	sce_5835	49.82	putative PAS/PAC sensor protein
SCE1572_6949	Cellulase(EC:3.2.1.4)	uni	sce_3609	24.09	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_6950	conserved domain protein	-		0	
SCE1572_6951	putative cytochrome P450 hydroxylase	uni	sce_8024	34.79	putative cytochrome P450 hydroxylase
SCE1572_6952	FIG01134227: hypothetical protein	uni	sce_4496	61.59	Ricin B lectin
SCE1572_6953	NmrA family protein	bi	sce_2385	89.16	hypothetical protein
SCE1572_6954	transcriptional regulator, AraC family	uni	sce_2078	39.03	transcriptional regulator, AraC family
SCE1572_6955	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_5883	60.91	hypothetical protein
SCE1572_6956	Catechol 1,2-dioxygenase(EC:1.13.11.1)	bi	sce_177	38.73	dioxygenase
SCE1572_6957	hypothetical protein	-		0	
SCE1572_6958	hypothetical protein	-		0	
SCE1572_6959	hypothetical protein	-		0	
SCE1572_6960	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_5775	76.21	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_6961	hypothetical protein	-		0	
SCE1572_6962	4-Hydroxy-2-oxoglutarate aldolase (EC 4.1.3.16) / 2-dehydro-3-deoxyphosphogluconate aldolase (EC 4.1.2.14)	bi	sce_5776	89.81	4-Hydroxy-2-oxoglutarate aldolase (EC 4.1.3.16) / 2-dehydro-3-deoxyphosphogluconate aldolase (EC 4.1.2.14)
SCE1572_6963	2-dehydro-3-deoxygluconate kinase (EC 2.7.1.45)	bi	sce_5777	90.41	2-dehydro-3-deoxygluconate kinase (EC 2.7.1.45)
SCE1572_6964	Hexuronate transporter	bi	sce_5778	87.94	Hexuronate transporter
SCE1572_6965	5-keto-D-gluconate 5-reductase (EC 1.1.1.69)	bi	sce_5779	87.16	5-keto-D-gluconate 5-reductase (EC 1.1.1.69)
SCE1572_6966	Uronate isomerase, family BH0493 (EC 5.3.1.12)	bi	sce_5780	89.25	Uronate isomerase, family BH0493 (EC 5.3.1.12)
SCE1572_6967	Glucarate dehydratase (EC 4.2.1.40)	bi	sce_5781	92.95	Glucarate dehydratase (EC 4.2.1.40)
SCE1572_6968	RsbR, positive regulator of sigma-B	bi	sce_5782	87.02	RsbR, positive regulator of sigma-B
SCE1572_6969	hypothetical protein	bi	sce_5783	66.35	hypothetical protein
SCE1572_6970	hypothetical protein	bi	sce_5784	78.91	hypothetical protein
SCE1572_6971	lysophospholipase-like family protein	-		0	
SCE1572_6972	oligopeptide transporter, OPT family	uni	sce_5329	32.18	oligopeptide transporter, OPT family
SCE1572_6973	hypothetical protein	-		0	
SCE1572_6974	FIG01087003: hypothetical protein	bi	sce_5787	74.29	FIG01087003: hypothetical protein
SCE1572_6975	Two component response regulator	bi	sce_5788	87.1	Two component response regulator
SCE1572_6976	RedC	bi	sce_5789	75.1	sensor histidine kinase
SCE1572_6977	hypothetical protein	-		0	
SCE1572_6978	Sensory histidine kinase CreB	bi	sce_5790	82.72	Sensory histidine kinase CreB
SCE1572_6979	RedD	uni	sce_6705	60.51	RedD
SCE1572_6980	rhamnogalacturonan acetylesterase	bi	sce_5791	74.58	rhamnogalacturonan acetylesterase
SCE1572_6981	EBNA-1	bi	sce_5794	73.63	RTX toxins and related Ca2温□ proteins
SCE1572_6982	hypothetical protein	bi	sce_5796	43.3	hypothetical protein
SCE1572_6983	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_5797	78.76	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_6984	hypothetical protein	bi	sce_5799	71.82	hypothetical protein
SCE1572_6985	BarH	bi	sce_5800	86.15	BarH
SCE1572_6986	hypothetical protein	-		0	
SCE1572_6987	Acetoacetate metabolism regulatory protein atoC (Ornithine/arginine decarboxylase inhibitor) (Ornithine decarboxylase antizy	uni	sce_4822	51.07	Acetoacetate metabolism regulatory protein atoC (Ornithine/arginine decarboxylase inhibitor) (Ornithine decarboxylase antizyme)
SCE1572_6988	FIG01085581: hypothetical protein	bi	sce_5805	76.49	FIG01085581: hypothetical protein
SCE1572_6989	bacterial transcription activator family protein	-		0	
SCE1572_6990	hypothetical protein	-		0	
SCE1572_6991	hypothetical protein	bi	sce_5807	89.26	hypothetical protein
SCE1572_6992	FIG01087827: hypothetical protein	uni	sce_100	82.67	FIG01087827: hypothetical protein
SCE1572_6993	flagellar motor protein	bi	sce_5811	78.18	Tetratricopeptide TPR_2 repeat protein
SCE1572_6994	SB protease	bi	sce_5812	84.86	SB protease
SCE1572_6995	hypothetical protein	bi	sce_5813	73.55	hypothetical protein
SCE1572_6996	hypothetical protein	bi	sce_5815	84	hypothetical protein
SCE1572_6997	hypothetical protein	-		0	
SCE1572_6998	hypothetical protein	-		0	
SCE1572_6999	hypothetical protein	-		0	
SCE1572_7000	hypothetical protein	-		0	
SCE1572_7001	Beta-glucosidase (EC 3.2.1.21)	uni	sce_7721	38.36	FIG01087134: hypothetical protein
SCE1572_7002	hypothetical protein	-		0	
SCE1572_7003	Similarity	bi	sce_3413	77.78	Similarity
SCE1572_7004	putative ABC transporter ATP-binding protein	bi	sce_5821	74.87	ABC transporter, permease/ATP-binding protein, putative
SCE1572_7005	hypothetical protein	bi	sce_5822	83.93	hypothetical protein
SCE1572_7006	hypothetical protein	-		0	
SCE1572_7007	hypothetical protein	-		0	
SCE1572_7008	hypothetical protein	bi	sce_6818	86.21	hypothetical protein
SCE1572_7009	PE-PGRS FAMILY PROTEIN	uni	sce_9483	72.71	FIG01086339: hypothetical protein
SCE1572_7010	FIG01089478: hypothetical protein	uni	sce_9482	75.77	hypothetical protein
SCE1572_7011	RNA polymerase sigma-H factor	bi	sce_9481	83.51	RNA polymerase sigma-H factor
SCE1572_7012	hypothetical protein	-		0	
SCE1572_7013	hypothetical protein	-		0	
SCE1572_7014	hypothetical protein	-		0	
SCE1572_7015	hypothetical protein	bi	sce_9479	72.9	hypothetical protein
SCE1572_7016	hypothetical protein	-		0	
SCE1572_7017	hypothetical protein	-		0	
SCE1572_7018	hypothetical protein, aspartate-rich	uni	sce_3180	57.14	FIG01089285: hypothetical protein
SCE1572_7019	FIG01089285: hypothetical protein	uni	sce_3995	52	FIG01089285: hypothetical protein
SCE1572_7020	hypothetical protein	uni	sce_10161	84.82	hypothetical protein
SCE1572_7021	Transposase	bi	sce_10160	88.03	Transposase
SCE1572_7022	Mobile element protein	uni	sce_6228	71.04	Mobile element protein
SCE1572_7023	hypothetical protein	-		0	
SCE1572_7024	hypothetical protein	uni	sce_5849	38.5	putative secreted protein
SCE1572_7025	hypothetical protein	-		0	
SCE1572_7026	Pyruvate kinase family protein	bi	sce_5823	83.9	Pyruvate kinase family protein
SCE1572_7027	Serine phosphatase RsbU, regulator of sigma subunit	bi	sce_5824	82.89	Serine phosphatase RsbU, regulator of sigma subunit
SCE1572_7028	FIG01089073: hypothetical protein	uni	sce_5825	79.84	FIG01089073: hypothetical protein
SCE1572_7029	Serine phosphatase RsbU, regulator of sigma subunit	bi	sce_5827	81.6	Serine phosphatase RsbU, regulator of sigma subunit
SCE1572_7030	FIG01087229: hypothetical protein	bi	sce_5828	83.06	hypothetical protein
SCE1572_7031	FIG01087678: hypothetical protein	bi	sce_5829	92.72	FIG01087678: hypothetical protein
SCE1572_7032	Serine phosphatase RsbU, regulator of sigma subunit	bi	sce_5830	80.63	Serine phosphatase RsbU, regulator of sigma subunit
SCE1572_7033	FIG01087229: hypothetical protein	bi	sce_5831	92.74	FIG01087229: hypothetical protein
SCE1572_7034	FIG01085827: hypothetical protein	uni	sce_2591	88.96	FIG01085827: hypothetical protein
SCE1572_7035	serine/threonine protein kinase	bi	sce_5833	86.9	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_7036	FIG01085659: hypothetical protein	bi	sce_5834	88.6	FIG01085659: hypothetical protein
SCE1572_7037	two component, sigma54 specific, transcriptional regulator, Fis family	uni	sce_773	55.28	Flagellar regulatory protein FleQ
SCE1572_7038	two component, sigma54 specific, transcriptional regulator, Fis family	uni	sce_4034	48.66	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_7039	FIG01089256: hypothetical protein	uni	sce_9939	33.77	FIG01089423: hypothetical protein
SCE1572_7040	hypothetical protein	-		0	
SCE1572_7041	hypothetical protein	bi	sce_5839	66.98	hypothetical protein
SCE1572_7042	hypothetical protein	-		0	
SCE1572_7043	hypothetical protein	bi	sce_9895	73.74	hypothetical protein
SCE1572_7044	Gll2764 protein	bi	sce_9896	95.19	Gll2764 protein
SCE1572_7045	protein kinase	uni	sce_7782	40.3	serine/threonine protein kinase
SCE1572_7046	hypothetical protein	-		0	
SCE1572_7047	hypothetical protein	-		0	
SCE1572_7048	hypothetical protein	-		0	
SCE1572_7049	response regulator receiver domain/DnaJ domain protein	uni	sce_157	46.26	hypothetical protein

SCE1572_7050	hypothetical protein	-		0	
SCE1572_7051	hypothetical protein	-		0	
SCE1572_7052	hypothetical protein	-		0	
SCE1572_7053	hypothetical protein	-		0	
SCE1572_7054	hypothetical protein	-		0	
SCE1572_7055	Chitodextrinase precursor (EC 3.2.1.14)	uni	sce_4105	33.55	Chitodextrinase precursor (EC 3.2.1.14)
SCE1572_7056	hypothetical protein	-		0	
SCE1572_7057	hypothetical protein	-		0	
SCE1572_7058	hypothetical protein	-		0	
SCE1572_7059	two component, sigma54 specific, transcriptional regulator, Fis family	uni	sce_2168	51.45	two component, sigma54 specific, transcriptional regulator, Fis family
SCE1572_7060	hypothetical protein	-		0	
SCE1572_7061	hypothetical protein	-		0	
SCE1572_7062	hypothetical protein	-		0	
SCE1572_7063	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)	uni	sce_7667	52.08	FIG01085006: hypothetical protein
SCE1572_7064	S-layer protein	uni	sce_3992	42.24	S-layer-like array protein
SCE1572_7065	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	uni	sce_7827	49.67	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_7066	hypothetical protein	uni	sce_7404	48.68	Mobile element protein
SCE1572_7067	hypothetical protein	-		0	
SCE1572_7068	hypothetical protein	bi	sce_5840	85.17	hypothetical protein
SCE1572_7069	Uncharacterized glutathione S-transferase-like protein	bi	sce_1257	52.05	Uncharacterized glutathione S-transferase-like protein
SCE1572_7070	hypothetical protein	-		0	
SCE1572_7071	Transcriptional regulator, HxlR family	uni	sce_2658	33.04	Transcriptional regulator, HxlR family
SCE1572_7072	putative secreted protein	bi	sce_5849	83.18	putative secreted protein
SCE1572_7073	hypothetical protein	-		0	
SCE1572_7074	glutathione-dependent formaldehyde-activating, GFA	bi	sce_5850	82.12	glutathione-dependent formaldehyde-activating, GFA
SCE1572_7075	Transcriptional regulator, DeoR family	bi	sce_5851	84.88	Transcriptional regulator, DeoR family
SCE1572_7076	FIG01085614: hypothetical protein	bi	sce_5854	83.8	FIG01085614: hypothetical protein
SCE1572_7077	hypothetical protein	-		0	
SCE1572_7078	hypothetical protein	-		0	
SCE1572_7079	hypothetical protein	bi	sce_5855	94.23	hypothetical protein
SCE1572_7080	FIG01088289: hypothetical protein	bi	sce_5856	82.45	FIG01088289: hypothetical protein
SCE1572_7081	peptidase C14, caspase catalytic subunit p20	bi	sce_5857	83.65	hypothetical protein
SCE1572_7082	FIG01085964: hypothetical protein	uni	sce_5858	66.45	FIG01085964: hypothetical protein
SCE1572_7083	FIG01087316: hypothetical protein	bi	sce_5859	88.82	FIG01087316: hypothetical protein
SCE1572_7084	Endo-1,4-beta-glucanase	bi	sce_5860	74.19	Endo-1,4-beta-glucanase
SCE1572_7085	Beta-glucosidase (EC 3.2.1.21)	uni	sce_4706	32.69	Beta-glucosidase (EC 3.2.1.21)
SCE1572_7086	PE-PGRS FAMILY PROTEIN [SECOND PART]	bi	sce_9905	86.52	PE-PGRS FAMILY PROTEIN
SCE1572_7087	Collagen triple helix repeat	uni	sce_6814	67.49	PE-PGRS FAMILY PROTEIN
SCE1572_7088	hypothetical protein	uni	sce_9794	63.66	FIG01089478: hypothetical protein
SCE1572_7089	RNA polymerase sigma factor SigW	uni	sce_9902	56.91	RNA polymerase sigma factor SigW
SCE1572_7090	hypothetical protein	-		0	
SCE1572_7091	conserved hypothetical protein	bi	sce_5861	89.1	conserved hypothetical protein
SCE1572_7092	hypothetical protein	-		0	
SCE1572_7093	Methyltransferase type 11	uni	sce_6296	40.95	putative methyltransferase
SCE1572_7094	hypothetical protein	-		0	
SCE1572_7095	Single-stranded DNA-binding protein	bi	sce_5863	69.23	Single-stranded DNA-binding protein
SCE1572_7096	FIG01088501: hypothetical protein	bi	sce_1560	79.41	FIG01088501: hypothetical protein
SCE1572_7097	hypothetical protein	bi	sce_1561	82.9	hypothetical protein
SCE1572_7098	serine/threonine protein kinase	bi	sce_1562	75	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_7099	hypothetical protein	uni	sce_7807	72	hypothetical protein
SCE1572_7100	hypothetical protein	bi	sce_5868	80.47	hypothetical protein
SCE1572_7101	Inner membrane protein YqiK	bi	sce_5869	94.05	Inner membrane protein YqiK
SCE1572_7102	conserved hypothetical protein-putative thiol-disulfide isomerase or thioredoxin	bi	sce_5870	79.91	hypothetical protein
SCE1572_7103	hypothetical protein	-		0	
SCE1572_7104	Tat (Twin-arginine translocation) pathway signal sequence domain protein	bi	sce_5836	90.69	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_7105	Cellulose-binding domain protein	bi	sce_5837	88.3	Cellulose-binding domain protein
SCE1572_7106	hypothetical protein	-		0	
SCE1572_7107	PE-PGRS FAMILY PROTEIN	uni	sce_8050	39.22	FIG01087571: hypothetical protein
SCE1572_7108	hypothetical protein	-		0	
SCE1572_7109	hypothetical protein	bi	sce_1435	72.83	hypothetical protein
SCE1572_7110	hypothetical protein	-		0	
SCE1572_7111	outer membrane protein OmpA	uni	sce_77	41.72	outer membrane protein OmpA
SCE1572_7112	hypothetical protein	-		0	
SCE1572_7113	Amidohydrolase 3	uni	sce_3442	32.3	Amidohydrolase 3
SCE1572_7114	Indigoidine synthase A-like protein, uncharacterized enzyme involved in pigment biosynthesis	bi	sce_7551	89.14	Indigoidine synthase A-like protein, uncharacterized enzyme involved in pigment biosynthesis
SCE1572_7115	Ribokinase (EC 2.7.1.15)	uni	sce_4216	39.62	Ribokinase (EC 2.7.1.15)
SCE1572_7116	acetoin utilization protein AcuB	uni	sce_54	36.36	hypothetical protein
SCE1572_7117	FIG01043599: hypothetical protein	uni	sce_2008	30.52	Probable lipoprotein signal peptide
SCE1572_7118	FIG01086649: hypothetical protein	bi	sce_9883	71.49	FIG01086649: hypothetical protein
SCE1572_7119	Tenascin-X	uni	sce_7238	57.75	Tenascin-X
SCE1572_7120	Band 7 protein	-		0	
SCE1572_7121	hypothetical protein	-		0	
SCE1572_7122	Multiple EGF-like-domain protein 3 precursor	bi	sce_5871	82.3	Multiple EGF-like-domain protein 3 precursor
SCE1572_7123	hypothetical protein	uni	sce_9036	38.67	200 kDa antigen p200, putative
SCE1572_7124	hypothetical protein	bi	sce_5872	90.38	hypothetical protein
SCE1572_7125	unknown	bi	sce_5874	91.44	hypothetical protein
SCE1572_7126	hypothetical protein	-		0	
SCE1572_7127	hypothetical protein	-		0	
SCE1572_7128	hypothetical protein	-		0	
SCE1572_7129	hypothetical protein	-		0	
SCE1572_7130	peptidase S8 and S53, subtilisin, kexin, sedolisin	uni	sce_9684	33.04	Protease
SCE1572_7131	hypothetical protein	bi	sce_8424	84.51	hypothetical protein
SCE1572_7132	hypothetical protein	bi	sce_3684	85.38	hypothetical protein
SCE1572_7133	RsbR, positive regulator of sigma-B	bi	sce_5482	85.85	RsbR, positive regulator of sigma-B
SCE1572_7134	NTP pyrophosphohydrolases including oxidative damage repair enzymes	bi	sce_6324	85.85	hypothetical protein
SCE1572_7135	L-lactate dehydrogenase (EC 1.1.1.27)	bi	sce_5876	93.75	L-lactate dehydrogenase (EC 1.1.1.27)
SCE1572_7136	probable integral membrane protein	bi	sce_5877	82.4	hypothetical protein
SCE1572_7137	hypothetical protein	-		0	
SCE1572_7138	FIG01086383: hypothetical protein	uni	sce_2804	39.27	FIG01086383: hypothetical protein
SCE1572_7139	hypothetical protein	-		0	
SCE1572_7140	hypothetical protein	-		0	
SCE1572_7141	Glucokinase (EC 2.7.1.2)	uni	sce_5843	62.86	hypothetical protein
SCE1572_7142	HlyD family secretion protein	-		0	
SCE1572_7143	FIG01086605: hypothetical protein	bi	sce_301	61.64	FIG01086605: hypothetical protein
SCE1572_7144	O-acetylhomoserine sulfhydrylase (EC 2.5.1.49) / O-succinylhomoserine sulfhydrylase (EC 2.5.1.48)	bi	sce_5878	92.57	O-acetylhomoserine sulfhydrylase (EC 2.5.1.49) / O-succinylhomoserine sulfhydrylase (EC 2.5.1.48)
SCE1572_7145	hypothetical protein	uni	sce_8433	28.43	Gll1489 protein
SCE1572_7146	hypothetical protein	bi	sce_5879	73.91	hypothetical protein
SCE1572_7147	Radical SAM domain protein	bi	sce_5880	92.67	radical SAM domain protein
SCE1572_7148	HAMP domain protein	bi	sce_5885	91.51	HAMP domain protein
SCE1572_7149	FIG01089025: hypothetical protein	bi	sce_5886	94	FIG01089025: hypothetical protein
SCE1572_7150	Fibronectin/fibrinogen-binding protein	bi	sce_5887	88.74	Fibronectin/fibrinogen-binding protein
SCE1572_7151	hypothetical protein	bi	sce_5889	49.61	NADH-ubiquinone oxidoreductase chain J (EC 1.6.5.3)
SCE1572_7152	Sulfatase modifying factor 2 precursor (C-alpha-formyglycine- generating enzyme 2)	bi	sce_5890	95.53	putative serine/threonine protein kinase
SCE1572_7153	FIG01085516: hypothetical protein	uni	sce_1454	84.19	FIG01085516: hypothetical protein
SCE1572_7154	hypothetical protein	-		0	
SCE1572_7155	FIG01088355: hypothetical protein	bi	sce_5893	70.11	FIG01088355: hypothetical protein
SCE1572_7156	hypothetical protein	uni	sce_157	48.64	hypothetical protein
SCE1572_7157	O-methyltransferase, family 2	bi	sce_1355	28.48	O-methyltransferase, family 2
SCE1572_7158	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)	uni	sce_8326	47.27	putative secreted protein
SCE1572_7159	lipoprotein, putative	bi	sce_5894	87.8	lipoprotein, putative
SCE1572_7160	transcriptional regulator, LysR family	uni	sce_3645	41.89	Transcriptional regulator, LysR family
SCE1572_7161	FIG01087828: hypothetical protein	bi	sce_5895	70.37	FIG01087828: hypothetical protein
SCE1572_7162	putative oxidoreductase	bi	sce_5896	91.33	putative oxidoreductase
SCE1572_7163	Fumarylacetoacetase (EC 3.7.1.2)	bi	sce_5897	90.94	Fumarylacetoacetase (EC 3.7.1.2)
SCE1572_7164	N-Acetyl-D-glucosamine ABC transport system, permease protein 2	bi	sce_3432	40.77	N-Acetyl-D-glucosamine ABC transport system, permease protein 2
SCE1572_7165	FIG00816855: hypothetical protein	uni	sce_10351	36.1	N-Acetyl-D-glucosamine ABC transport system, permease protein 1
SCE1572_7166	ABC transporter, sugar binding protein	uni	sce_858	26.41	N-Acetyl-D-glucosamine ABC transport system, sugar-binding protein
SCE1572_7167	Transcriptional regulator, TetR family	uni	sce_9220	59.62	Transcriptional regulator, TetR family
SCE1572_7168	hypothetical protein	bi	sce_5100	27.55	Type II secretory pathway, ATPase PulE/Tfp pilus assembly pathway, ATPase PilB
SCE1572_7169	TPR repeat	uni	sce_2	27.7	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_7170	Vancomycin B-type resistance protein VanW	bi	sce_5899	85.36	Vancomycin B-type resistance protein VanW
SCE1572_7171	Sulfur carrier protein ThiS	bi	sce_5900	90.91	Sulfur carrier protein ThiS
SCE1572_7172	carbonic anhydrase, family 3	bi	sce_5901	84	carbonic anhydrase, family 3
SCE1572_7173	tRNA-i(6)A37 methylthiotransferase	bi	sce_5902	93.98	tRNA-i(6)A37 methylthiotransferase
SCE1572_7174	hypothetical protein	-		0	
SCE1572_7175	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_5904	87.46	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_7176	Proline iminopeptidase (EC 3.4.11.5)	bi	sce_5905	91.88	Proline iminopeptidase (EC 3.4.11.5)
SCE1572_7177	hypothetical protein	-		0	
SCE1572_7178	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_2175	83.02	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_7179	signal transduction histidine kinase, LytS	-		0	
SCE1572_7180	two-component response regulator LytR	uni	sce_5455	33.09	two-component transcriptional regulator (OmpR family), BaeR/ChvL/OmpR-like protein
SCE1572_7181	beta-lactamase	bi	sce_6290	29.71	FIG01086026: hypothetical protein
SCE1572_7182	LysR family transcriptional regulator YnfL	bi	sce_1246	91.51	LysR family transcriptional regulator YnfL
SCE1572_7183	O-methyltransferase (EC 2.1.1.-)	bi	sce_1245	80.42	O-methyltransferase (EC 2.1.1.-)
SCE1572_7184	hypothetical protein	-		0	
SCE1572_7185	FIG01087280: hypothetical protein	bi	sce_5906	90.91	FIG01087280: hypothetical protein
SCE1572_7186	Putative fatty acid transport system, membrane protein	bi	sce_5907	83.57	Putative fatty acid transport system, membrane protein
SCE1572_7187	FIG01087195: hypothetical protein	bi	sce_5908	77.02	FIG01087195: hypothetical protein
SCE1572_7188	N-acetylglucosamine-1-phosphate uridyltransferase (EC 2.7.7.23) / Glucosamine-1-phosphate N-acetyltransferase (EC 2.3.1.1	bi	sce_5909	91.7	N-acetylglucosamine-1-phosphate uridyltransferase (EC 2.7.7.23) / Glucosamine-1-phosphate N-acetyltransferase (EC 2.3.1.157)
SCE1572_7189	Copper sensory histidine kinase CpxA	bi	sce_1882	50.46	Copper sensory histidine kinase CpxA
SCE1572_7190	two component, sigma54 specific, transcriptional regulator, Fis family	bi	sce_1881	71.24	two component, sigma54 specific, transcriptional regulator, Fis family
SCE1572_7191	GTP cyclohydrolase II (EC 3.5.4.25)	bi	sce_5914	91.27	GTP cyclohydrolase II (EC 3.5.4.25)
SCE1572_7192	hypothetical protein	-		0	
SCE1572_7193	Acyl-CoA dehydrogenase (EC 1.3.99.3)	bi	sce_5915	86	Acyl-CoA dehydrogenase (EC 1.3.99.3)
SCE1572_7194	hypothetical protein	-		0	
SCE1572_7195	COG3391: Uncharacterized conserved protein	-		0	
SCE1572_7196	Acyl-CoA dehydrogenase (EC 1.3.99.3)	-		0	
SCE1572_7197	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases	bi	sce_2498	79.91	2-polyprenyl-6-methoxyphenol hydroxylase and related FAD-dependent oxidoreductases
SCE1572_7198	(MTV023.15), len: 1901. Member of Mycobacterium tuberculosis PE protein family, Gly-rich PGRS subfamily, most similar t	uni	sce_8582	40.88	FIG01089363: hypothetical protein
SCE1572_7199	Hydrolase (HAD superfamily)	bi	sce_8384	89.43	Hydrolase (HAD superfamily)
SCE1572_7200	RND multidrug efflux transporter; Acriflavin resistance protein	bi	sce_5918	93.9	RND multidrug efflux transporter; Acriflavin resistance protein
SCE1572_7201	Probable RND efflux membrane fusion protein	bi	sce_5919	82.37	Probable RND efflux membrane fusion protein
SCE1572_7202	FIG01086577: hypothetical protein	uni	sce_1209	39.25	FIG01086577: hypothetical protein
SCE1572_7203	hypothetical protein	uni	sce_10265	81.48	hypothetical protein
SCE1572_7204	hypothetical protein	uni	sce_5242	50	FIG01085364: hypothetical protein
SCE1572_7205	hypothetical protein	uni	sce_8568	43.83	hypothetical protein
SCE1572_7206	FIG01087763: hypothetical protein	bi	sce_5924	76.57	FIG01087763: hypothetical protein
SCE1572_7207	hydrolase, haloacid dehalogenase-like family	bi	sce_5926	88.34	hydrolase, haloacid dehalogenase-like family
SCE1572_7208	putative methyltransferase	bi	sce_5920	63.75	Methyltransferase
SCE1572_7209	DNA polymerase III delta subunit (EC 2.7.7.7)	bi	sce_5936	90.25	DNA polymerase III delta subunit (EC 2.7.7.7)
SCE1572_7210	hypothetical protein	bi	sce_5937	70.59	hypothetical protein
SCE1572_7211	Arsenical pump membrane protein	bi	sce_5938	88	arsenical pump membrane protein
SCE1572_7212	FIG01087896: hypothetical protein	bi	sce_5939	77.59	FIG01087896: hypothetical protein
SCE1572_7213	hypothetical protein	-		0	

SCE1572_7214	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_5941	81.42	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_7215	hypothetical protein	uni	sce_9755	56.19	Large exoproteins involved in heme utilization or adhesion
SCE1572_7216	hypothetical protein	bi	sce_5944	87.14	hypothetical protein
SCE1572_7217	Enoyl-[acyl-carrier-protein] reductase [FMN] (EC 1.3.1.9)	uni	sce_2062	28.76	Enoyl-[acyl-carrier-protein] reductase [FMN] (EC 1.3.1.9)
SCE1572_7218	hypothetical protein	uni	sce_1644	25.97	FIG01088446: hypothetical protein
SCE1572_7219	Outer membrane lipoprotein omp16 precursor	bi	sce_5945	84.55	Outer membrane lipoprotein omp16 precursor
SCE1572_7220	FIG01086986: hypothetical protein	bi	sce_5946	80	FIG01086986: hypothetical protein
SCE1572_7221	ATP-dependent RNA helicase, DEAD/DEAH box family	uni	sce_5947	85.47	ATP-dependent RNA helicase, DEAD/DEAH box family
SCE1572_7222	ATP-dependent RNA helicase, DEAD/DEAH box family	bi	sce_5947	92.44	ATP-dependent RNA helicase, DEAD/DEAH box family
SCE1572_7223	Chitinase (EC 3.2.1.14)	bi	sce_5948	84.19	Chitinase (EC 3.2.1.14)
SCE1572_7224	Naphthoate synthase (EC 4.1.3.36)	bi	sce_5950	97.99	Naphthoate synthase (EC 4.1.3.36)
SCE1572_7225	RsbR, positive regulator of sigma-B	bi	sce_5951	80.73	RsbR, positive regulator of sigma-B
SCE1572_7226	FIG01087334: hypothetical protein	bi	sce_5952	71.9	FIG01087334: hypothetical protein
SCE1572_7227	hypothetical protein	bi	sce_5953	83.03	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_7228	hypothetical protein	bi	sce_5954	84.26	hypothetical protein
SCE1572_7229	serine/threonine protein kinase	bi	sce_5955	77.81	serine/threonine protein kinase
SCE1572_7230	hypothetical protein	-		0	
SCE1572_7231	hypothetical protein	-		0	
SCE1572_7232	hypothetical protein	uni	sce_8433	30	Gll1489 protein
SCE1572_7233	FIG01085539: hypothetical protein	uni	sce_1419	65.04	FIG01085539: hypothetical protein
SCE1572_7234	FIG01088874: hypothetical protein	bi	sce_5956	65.81	FIG01088874: hypothetical protein
SCE1572_7235	serine/threonine protein kinase	bi	sce_5957	82.13	serine/threonine protein kinase
SCE1572_7236	serine/threonine protein kinase	bi	sce_5958	80.31	serine/threonine protein kinase
SCE1572_7237	Cysteinyl-tRNA synthetase (EC 6.1.1.16)	bi	sce_5960	91.41	Cysteinyl-tRNA synthetase (EC 6.1.1.16)
SCE1572_7238	Similarity	bi	sce_5962	76.34	Similarity
SCE1572_7239	Fumarate hydratase class II (EC 4.2.1.2)	uni	sce_10196	83.05	Fumarate hydratase class II (EC 4.2.1.2)
SCE1572_7240	N-hydroxyarylamine O-acetyltransferase (EC 2.3.1.118)	bi	sce_5963	75.93	N-hydroxyarylamine O-acetyltransferase (EC 2.3.1.118)
SCE1572_7241	Signal transduction histidine kinase CheA (EC 2.7.3.-)	uni	sce_6107	46.69	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_7242	Twitching motility protein PilT	bi	sce_5964	96.07	Twitching motility protein PilT
SCE1572_7243	Twitching motility protein PilT	bi	sce_5965	84.05	Twitching motility protein PilT
SCE1572_7244	hypothetical protein	-		0	
SCE1572_7245	FIG01087216: hypothetical protein	bi	sce_5966	76.7	FIG01087216: hypothetical protein
SCE1572_7246	hypothetical protein	bi	sce_5968	90.12	hypothetical protein
SCE1572_7247	hypothetical protein	-		0	
SCE1572_7248	FIG01088842: hypothetical protein	bi	sce_5969	90.91	FIG01088842: hypothetical protein
SCE1572_7249	Conserved domain protein	uni	sce_2378	59.88	Conserved domain protein
SCE1572_7250	Conserved domain protein	bi	sce_2378	61.94	Conserved domain protein
SCE1572_7251	hypothetical protein	-		0	
SCE1572_7252	FIG01088157: hypothetical protein	bi	sce_2379	56.82	FIG01088157: hypothetical protein
SCE1572_7253	Cytochrome oxidase biogenesis protein Sco1/SenC/PrrC, putative copper metallochaperone	bi	sce_2380	63.11	Cytochrome oxidase biogenesis protein Sco1/SenC/PrrC, putative copper metallochaperone
SCE1572_7254	cytochrome c, putative	bi	sce_2382	51.64	Fibroin
SCE1572_7255	Dihydroxy-acid dehydratase (EC 4.2.1.9)	bi	sce_5970	95.52	Dihydroxy-acid dehydratase (EC 4.2.1.9)
SCE1572_7256	LOC432261 protein	bi	sce_5971	75	LOC432261 protein
SCE1572_7257	Cobalamin biosynthesis protein BluB @ 5,6-dimethylbenzimidazole synthase, flavin destructase family	bi	sce_5537	44.2	Cobalamin biosynthesis protein BluB @ 5,6-dimethylbenzimidazole synthase, flavin destructase family / Nicotinate-nucleotide--dim
SCE1572_7258	D-amino-acid oxidase (EC 1.4.3.3)	bi	sce_5972	84.74	D-amino-acid oxidase (EC 1.4.3.3)
SCE1572_7259	hypothetical protein	-		0	
SCE1572_7260	Beta-carotene hydroxylase	bi	sce_5973	88.15	Beta-carotene hydroxylase
SCE1572_7261	hypothetical protein	-		0	
SCE1572_7262	glutathione S-transferase(EC:2.5.1.18)	uni	sce_2458	30.94	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_7263	alpha/beta hydrolase fold	bi	sce_5978	77.59	Alpha/beta hydrolase fold
SCE1572_7264	hypothetical protein	-		0	
SCE1572_7265	FIG01086694: hypothetical protein	bi	sce_5979	82.28	FIG01086694: hypothetical protein
SCE1572_7266	hypothetical protein	-		0	
SCE1572_7267	Thrombospondin 4 precursor	uni	sce_3978	54.17	Thrombospondin-1 precursor
SCE1572_7268	FIG01085038: hypothetical protein	uni	sce_5980	77.36	FIG01085038: hypothetical protein
SCE1572_7269	hypothetical protein	uni	sce_3489	50.76	hypothetical protein
SCE1572_7270	serine/threonine protein kinase	bi	sce_5982	79.7	serine/threonine protein kinase
SCE1572_7271	Macrophage infectivity potentiator-related protein	bi	sce_6026	91.53	COG2128: Uncharacterized conserved protein
SCE1572_7272	Transcriptional regulator, MarR family	bi	sce_6025	93.51	Transcriptional regulator, MarR family
SCE1572_7273	hypothetical protein	-		0	
SCE1572_7274	hypothetical protein	uni	sce_7696	86.96	FIG01087243: hypothetical protein
SCE1572_7275	hypothetical protein	bi	sce_6816	79.68	hypothetical protein
SCE1572_7276	predicted protein	uni	sce_7695	68.06	predicted protein
SCE1572_7277	hypothetical protein	bi	sce_7693	84.31	hypothetical protein
SCE1572_7278	hypothetical protein	uni	sce_7692	62.93	hypothetical protein
SCE1572_7279	hypothetical protein	bi	sce_629	66.67	hypothetical protein
SCE1572_7280	Permease of the drug/metabolite transporter (DMT) superfamily	bi	sce_5983	81.43	Permease of the drug/metabolite transporter (DMT) superfamily
SCE1572_7281	FIG01086592: hypothetical protein	bi	sce_5984	82.73	FIG01086592: hypothetical protein
SCE1572_7282	hypothetical protein	bi	sce_5986	87.55	FIG01103339: hypothetical protein
SCE1572_7283	Beta-lactamase (EC 3.5.2.6)	bi	sce_5987	83.88	Beta-lactamase (EC 3.5.2.6)
SCE1572_7284	hypothetical protein	uni	sce_8804	38.6	FIG01086715: hypothetical protein
SCE1572_7285	Glucose-1-phosphate adenylyltransferase (EC 2.7.7.27)	bi	sce_5988	93.81	Glucose-1-phosphate adenylyltransferase (EC 2.7.7.27)
SCE1572_7286	Aspartate-semialdehyde dehydrogenase (EC 1.2.1.11)	bi	sce_5989	92.15	Aspartate-semialdehyde dehydrogenase (EC 1.2.1.11)
SCE1572_7287	Nudix hydrolase family protein YffH	bi	sce_5990	97.41	Nudix hydrolase family protein YffH
SCE1572_7288	hypothetical protein	bi	sce_6130	91.97	hypothetical protein
SCE1572_7289	hypothetical protein	uni	sce_1421	30.63	Usg protein
SCE1572_7290	FIG01089430: hypothetical protein	bi	sce_5991	88.06	FIG01089430: hypothetical protein
SCE1572_7291	hypothetical protein	-		0	
SCE1572_7292	hypothetical protein	uni	sce_10035	30.23	Phosphatidylglycerophosphatase B (EC 3.1.3.27)
SCE1572_7293	glucose-fructose oxidoreductase	-		0	
SCE1572_7294	hypothetical protein	uni	sce_6851	53.15	FIG01085217: hypothetical protein
SCE1572_7295	putative cytochrome P450 hydroxylase	uni	sce_8803	35.66	putative cytochrome P450 hydroxylase
SCE1572_7296	Transcriptional regulator, LysR family	bi	sce_6071	85.21	Transcriptional regulator, LysR family
SCE1572_7297	hypothetical protein	bi	sce_6072	86.09	hypothetical protein
SCE1572_7298	hypothetical protein	bi	sce_6074	87.88	probable conserved hypothetical protein
SCE1572_7299	High-affnity carbon uptake protein Hat/HatR	bi	sce_3003	87.26	High-affnity carbon uptake protein Hat/HatR
SCE1572_7300	Nitrate/nitrite response regulator protein	bi	sce_3004	89.57	Nitrate/nitrite response regulator protein
SCE1572_7301	hypothetical protein	-		0	
SCE1572_7302	hypothetical protein	bi	sce_2466	47.27	hypothetical protein
SCE1572_7303	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	bi	sce_5169	89.16	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases
SCE1572_7304	ThiJ/PfpI family protein	bi	sce_5168	86.35	ThiJ/PfpI family protein
SCE1572_7305	Uncharacterized protein with a C-terminal OMP (outer membrane protein) domain	bi	sce_2493	80.87	Uncharacterized protein with a C-terminal OMP (outer membrane protein) domain
SCE1572_7306	hypothetical protein	-		0	
SCE1572_7307	GIY-YIG catalytic domain protein	uni	sce_8277	34.31	Excinuclease ABC subunit C
SCE1572_7308	FIG01086542: hypothetical protein	bi	sce_10414	87.5	FIG01086542: hypothetical protein
SCE1572_7309	Conserved protein, with a weak D-galactarate dehydratase/altronate hydrolase domain	uni	sce_4708	62.72	hypothetical protein
SCE1572_7310	D-AMINOPEPTIDASE (EC 3.4.11.19)	bi	sce_6091	85.6	D-AMINOPEPTIDASE (EC 3.4.11.19)
SCE1572_7311	Signal transduction histidine kinase CheA (EC 2.7.3.-)	bi	sce_6095	75.87	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_7312	phosphoglycerate mutase	uni	sce_3668	35.58	Phosphoglycerate mutase
SCE1572_7313	PEBP family protein	bi	sce_3000	59.55	conserved hypothetical protein
SCE1572_7314	AmpG permease	uni	sce_1005	43.75	AmpG permease
SCE1572_7315	transcriptional regulator, TetR family	uni	sce_1534	40	Transcriptional regulator, TetR family
SCE1572_7316	hypothetical protein	-		0	
SCE1572_7317	putative immediate early protein	uni	sce_9154	48.31	PE-PGRS family protein
SCE1572_7318	Trypsin domain protein	-		0	
SCE1572_7319	Ribosomal-protein-S5p-alanine acetyltransferase	bi	sce_6109	80.98	acetyltransferase, GNAT family protein
SCE1572_7320	putative lipoprotein	bi	sce_6418	40.41	FIG01088727: hypothetical protein
SCE1572_7321	Potassium efflux system KefA protein / Small-conductance mechanosensitive channel	bi	sce_6110	46.88	Potassium efflux system KefA protein / Small-conductance mechanosensitive channel
SCE1572_7322	ribonuclease E	uni	sce_3858	36.43	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_7323	Collagen triple helix repeat domain protein	bi	sce_6111	84.62	Phage tail fiber protein
SCE1572_7324	hypothetical protein	-		0	
SCE1572_7325	Exopolysaccharide biosynthesis glycosyltransferase EpsF (EC 2.4.1.-)	bi	sce_6112	91.58	Exopolysaccharide biosynthesis glycosyltransferase EpsF (EC 2.4.1.-)
SCE1572_7326	serine/threonine protein kinase	bi	sce_6113	77.89	serine/threonine protein kinase
SCE1572_7327	FIG01088683: hypothetical protein	bi	sce_6114	87.11	FIG01088683: hypothetical protein
SCE1572_7328	hypothetical protein	-		0	
SCE1572_7329	FIG01087912: hypothetical protein	bi	sce_6116	82.66	FIG01087912: hypothetical protein
SCE1572_7330	FIG01089567: hypothetical protein	bi	sce_6117	77.88	FIG01089567: hypothetical protein
SCE1572_7331	hypothetical protein	-		0	
SCE1572_7332	FIG01089567: hypothetical protein	bi	sce_6119	71.18	FIG01089567: hypothetical protein
SCE1572_7333	hypothetical protein	-		0	
SCE1572_7334	BchE/P-methylase family protein	bi	sce_6120	95.74	BchE/P-methylase family protein
SCE1572_7335	Extensin-like protein	uni	sce_2189	36.63	hypothetical protein-transmembrane region and signal peptide prediction
SCE1572_7336	Glutathione-regulated potassium-efflux system protein KefC	bi	sce_6121	89.33	Glutathione-regulated potassium-efflux system protein KefC
SCE1572_7337	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_6122	96.56	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_7338	Serine/threonine protein kinase (EC 2.7.11.1)	bi	sce_6123	80.08	Serine/threonine protein kinase (EC 2.7.11.1)
SCE1572_7339	hypothetical protein	bi	sce_6124	97.67	hypothetical protein
SCE1572_7340	Phage shock protein A	bi	sce_6125	96.76	Phage shock protein A
SCE1572_7341	calcium-transporting ATPase	bi	sce_6126	94.78	cation-transporting ATPase, E1-E2 family
SCE1572_7342	PREDICTED: similar to drug sensory protein A, partial	bi	sce_6127	85.84	hypothetical protein
SCE1572_7343	RsbR, positive regulator of sigma-B	bi	sce_4461	89.15	RsbR, positive regulator of sigma-B
SCE1572_7344	hypothetical protein	-		0	
SCE1572_7345	hypothetical protein	-		0	
SCE1572_7346	hypothetical protein	-		0	
SCE1572_7347	best DB hits: PFAM: PF00009; Elongation factor Tu family; E=0.29	-		0	
SCE1572_7348	hypothetical protein	bi	sce_6131	50.53	FIG01086383: hypothetical protein
SCE1572_7349	hypothetical protein	bi	sce_6132	48.92	FIG01089345: hypothetical protein
SCE1572_7350	Twin-arginine translocation protein TatB	bi	sce_6133	72.81	Twin-arginine translocation protein TatB
SCE1572_7351	RNA polymerase sigma factor RpoE	bi	sce_6134	63.88	RNA polymerase sigma factor RpoE
SCE1572_7352	FIG01089237: hypothetical protein	bi	sce_6135	87.04	FIG01089237: hypothetical protein
SCE1572_7353	MICRONEME PROTEIN 4	uni	sce_1376	30.55	Gll0995 protein
SCE1572_7354	hypothetical protein	uni	sce_2287	32.7	FIG01089119: hypothetical protein
SCE1572_7355	hypothetical protein	uni	sce_7678	27.06	transcriptional regulator, winged helix family
SCE1572_7356	hypothetical protein	-		0	
SCE1572_7357	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)	bi	sce_6139	87.96	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)
SCE1572_7358	oxidoreductases of the aldo/keto reductase family-like	bi	sce_6140	91.57	aldo/keto reductase
SCE1572_7359	hypothetical protein	-		0	
SCE1572_7360	Sulfatase modifying factor 1 precursor (C-alpha-formyglycine- generating enzyme 1)	bi	sce_6141	92.62	Sulfatase modifying factor 1 precursor (C-alpha-formyglycine- generating enzyme 1)
SCE1572_7361	ABC-type nitrate/sulfonate/bicarbonate transport system, ATPase component	bi	sce_6142	89.13	ABC-type nitrate/sulfonate/bicarbonate transport system, ATPase component
SCE1572_7362	hypothetical protein	-		0	
SCE1572_7363	Hemolysin-related protein RbmC	bi	sce_6144	76.26	Hemolysin-related protein Vcp
SCE1572_7364	COG0488: ATPase components of ABC transporters with duplicated ATPase domains	bi	sce_6145	95.32	COG0488: ATPase components of ABC transporters with duplicated ATPase domains
SCE1572_7365	Catalase (EC 1.11.1.6)	uni	sce_2350	54.37	Catalase (EC 1.11.1.6)
SCE1572_7366	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	bi	sce_6146	92.35	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_7367	D-xylose transport ATP-binding protein XylG	bi	sce_6147	92.11	D-xylose transport ATP-binding protein XylG
SCE1572_7368	Flagellar hook-length control protein FliK	bi	sce_6148	71.03	Flagellar hook-length control protein FliK
SCE1572_7369	cyclase/dehydrase	bi	sce_6149	65.35	cyclase/dehydrase
SCE1572_7370	Threonine dehydrogenase and related Zn-dependent dehydrogenases	bi	sce_6150	89.2	Threonine dehydrogenase and related Zn-dependent dehydrogenases
SCE1572_7371	hypothetical protein	bi	sce_6151	63.72	hypothetical protein
SCE1572_7372	DNA polymerase II (EC 2.7.7.7)	bi	sce_6153	91.13	DNA polymerase II (EC 2.7.7.7)
SCE1572_7373	hypothetical protein	uni	sce_7389	32.74	hypothetical protein
SCE1572_7374	RNA polymerase, sigma-24 subunit, ECF subfamily	uni	sce_7388	56.55	RNA polymerase sigma-70 factor, group 3
SCE1572_7375	hypothetical protein	uni	sce_7387	48.71	ActD
SCE1572_7376	ActD	uni	sce_7386	56.93	ActD
SCE1572_7377	Phosphoglucomutase (EC 5.4.2.2)	bi	sce_6154	93.82	Phosphoglucomutase (EC 5.4.2.2)

SCE1572_7378	BioH protein, putative	-		0	
SCE1572_7379	SAM-dependent methyltransferases	bi	sce_7617	79.01	hypothetical protein
SCE1572_7380	FIG01087706: hypothetical protein	uni	sce_868	72.16	FIG01087706: hypothetical protein
SCE1572_7381	hypothetical protein	-		0	
SCE1572_7382	hypothetical protein	-		0	
SCE1572_7383	hypothetical protein	-		0	
SCE1572_7384	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_2434	75.06	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_7385	Transcriptional regulator, LysR family	bi	sce_9581	46.94	Regulatory protein, LysR:LysR, substrate-binding
SCE1572_7386	Oxidoreductase	uni	sce_4749	52.23	Oxidoreductase
SCE1572_7387	FIG01085966: hypothetical protein	bi	sce_6155	88	FIG01085966: hypothetical protein
SCE1572_7388	hypothetical protein	bi	sce_6156	81.77	hypothetical protein
SCE1572_7389	hypothetical protein	-		0	
SCE1572_7390	Epstein-Barr nuclear antigen 1 (EBV nuclear antigen 1) (EBNA-1)	bi	sce_7829	62.55	endo alpha-1,4 polygalactosaminidase precusor
SCE1572_7391	Gll0645 protein	bi	sce_7831	69.05	Gll0645 protein
SCE1572_7392	FIG01089651: hypothetical protein	bi	sce_5846	66.97	FIG01089651: hypothetical protein
SCE1572_7393	Extensin-like protein precursor	bi	sce_7832	75.29	Flagellar hook-length control protein FliK
SCE1572_7394	FIG01088605: hypothetical protein	bi	sce_7833	81.94	FIG01088605: hypothetical protein
SCE1572_7395	RNA polymerase sigma factor RpoE	bi	sce_7834	87.62	RNA polymerase sigma factor RpoE
SCE1572_7396	RsbR, positive regulator of sigma-B	bi	sce_6157	92	RsbR, positive regulator of sigma-B
SCE1572_7397	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_6158	83.55	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_7398	patatin, putative	bi	sce_6159	94.34	patatin, putative
SCE1572_7399	Acyl-phosphate:glycerol-3-phosphate O-acyltransferase PlsY	bi	sce_6161	86.45	Acyl-phosphate:glycerol-3-phosphate O-acyltransferase PlsY
SCE1572_7400	Acid phosphatase(EC:3.1.3.2)	bi	sce_6162	74.32	predicted protein
SCE1572_7401	hypothetical protein	-		0	
SCE1572_7402	tetracenomycin C synthesis protein homolog	uni	sce_3468	37.85	O-methyltransferase-related protein
SCE1572_7403	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_6163	66.5	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_7404	Flagellar hook-length control protein FliK	bi	sce_6164	78.76	Flagellar hook-length control protein FliK
SCE1572_7405	RNA polymerase sigma factor RpoE	bi	sce_6165	93	RNA polymerase sigma factor RpoE
SCE1572_7406	hypothetical protein	bi	sce_6166	71.08	hypothetical protein
SCE1572_7407	hypothetical protein	-		0	
SCE1572_7408	HAD-superfamily hydrolase, subfamily IA, variant 3	bi	sce_6167	92.49	HAD-superfamily hydrolase, subfamily IA, variant 1
SCE1572_7409	hypothetical protein	-		0	
SCE1572_7410	hypothetical protein	bi	sce_6168	90.7	hypothetical protein
SCE1572_7411	Hydroxymethylpyrimidine ABC transporter, transmembrane component	bi	sce_6169	91.92	Hydroxymethylpyrimidine ABC transporter, transmembrane component
SCE1572_7412	Hydroxymethylpyrimidine ABC transporter, substrate-binding component	bi	sce_6170	89.42	Hydroxymethylpyrimidine ABC transporter, substrate-binding component
SCE1572_7413	BNR repeat domain protein	bi	sce_6171	80.54	BNR repeat domain protein
SCE1572_7414	NADH dehydrogenase (EC 1.6.99.3)	uni	sce_7160	29.23	Pyridine nucleotide-disulphide oxidoreductase associated with reductive pyrimidine catabolism
SCE1572_7415	RNA polymerase ECF-subfamily sigma factor	uni	sce_9369	39.26	putative RNA polymerase sigma factor
SCE1572_7416	hypothetical protein	bi	sce_6172	80.3	hypothetical protein
SCE1572_7417	Threonine dehydrogenase and related Zn-dependent dehydrogenases	bi	sce_6173	89.14	Threonine dehydrogenase and related Zn-dependent dehydrogenases
SCE1572_7418	hypothetical protein	-		0	
SCE1572_7419	Signal peptidase I (EC 3.4.21.89)	uni	sce_1142	47.3	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_7420	RsbR, positive regulator of sigma-B	bi	sce_6175	77.6	RsbR, positive regulator of sigma-B
SCE1572_7421	hypothetical protein	uni	sce_6904	60.53	FIG01089354: hypothetical protein
SCE1572_7422	hypothetical protein	bi	sce_5090	62.71	hypothetical protein
SCE1572_7423	hypothetical protein	bi	sce_6176	60.29	FIG01086220: hypothetical protein
SCE1572_7424	hypothetical protein	bi	sce_6177	88.04	hypothetical protein
SCE1572_7425	FIG01084940: hypothetical protein	bi	sce_6178	92.38	FIG01084940: hypothetical protein
SCE1572_7426	FIG01089566: hypothetical protein	uni	sce_4927	42.92	FIG01089566: hypothetical protein
SCE1572_7427	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins	uni	sce_5086	66.19	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins
SCE1572_7428	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)	bi	sce_6179	87.68	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)
SCE1572_7429	Type I restriction-modification system, specificity subunit S (EC 3.1.21.3)	bi	sce_6180	82.84	Type I restriction-modification system, specificity subunit S (EC 3.1.21.3)
SCE1572_7430	Similarity	bi	sce_3028	77.84	Similarity
SCE1572_7431	Polysaccharide deacetylase	bi	sce_4600	74.17	Polysaccharide deacetylase
SCE1572_7432	transcriptional regulator	bi	sce_6207	92.95	putative MerR-family transcriptional regulator
SCE1572_7433	FIG01087541: hypothetical protein	bi	sce_6208	84.42	FIG01087541: hypothetical protein
SCE1572_7434	4Fe-4S ferredoxin, iron-sulfur binding	bi	sce_6211	84.31	4Fe-4S ferredoxin, iron-sulfur binding
SCE1572_7435	Formate hydrogenlyase transcriptional activator	bi	sce_6212	91.45	Formate hydrogenlyase transcriptional activator
SCE1572_7436	Protein of unknown function Mtu_121	uni	sce_8363	40.95	Transcriptional regulator, MerR family
SCE1572_7437	cysteine proteinase	-		0	
SCE1572_7438	Cell division protein FtsZ (EC 3.4.24.-)	bi	sce_6218	73.83	RhoGEF Guanine nucleotide exchange factor for Rho/Rac/Cdc42-like GTPases-like
SCE1572_7439	hypothetical protein	-		0	
SCE1572_7440	hypothetical protein	-		0	
SCE1572_7441	hypothetical protein	-		0	
SCE1572_7442	hypothetical protein	uni	sce_6737	38.56	FIG01086993: hypothetical protein
SCE1572_7443	serine/threonine protein kinase	uni	sce_5549	38.24	serine/threonine protein kinase
SCE1572_7444	hypothetical protein	-		0	
SCE1572_7445	similar to keratin associated protein 5-4	uni	sce_2794	31.61	putative lipoprotein
SCE1572_7446	hypothetical protein	bi	sce_6219	82.19	hypothetical protein
SCE1572_7447	hypothetical protein	-		0	
SCE1572_7448	Transcriptional regulator containing an amidase domain and an AraC-type DNA-binding HTH domain	bi	sce_6220	90.16	phospholipase D/Transphosphatidylase
SCE1572_7449	Diaminopimelate decarboxylase (EC 4.1.1.20)	bi	sce_6221	91.49	Diaminopimelate decarboxylase (EC 4.1.1.20)
SCE1572_7450	hypothetical protein	-		0	
SCE1572_7451	Nitrilotriacetate monooxygenase component A (EC 1.14.13.-)	bi	sce_6233	95.34	Nitrilotriacetate monooxygenase component A (EC 1.14.13.-)
SCE1572_7452	Nitrilotriacetate monooxygenase component A (EC 1.14.13.-)	uni	sce_6233	93.59	Nitrilotriacetate monooxygenase component A (EC 1.14.13.-)
SCE1572_7453	FIG00841528: hypothetical protein	bi	sce_6235	88.83	FIG00841528: hypothetical protein
SCE1572_7454	ABC-type multidrug transport system, permease component	bi	sce_6238	81.25	ABC-type multidrug transport system, permease component
SCE1572_7455	ABC transporter, ATP-binding protein	bi	sce_6239	90.76	ABC-type multidrug transport system, ATPase component
SCE1572_7456	serine/threonine-protein kinase Pkn1(EC:2.7.11.1)	bi	sce_6240	69.04	serine/threonine protein kinase
SCE1572_7457	hypothetical protein	bi	sce_6241	78.59	hypothetical protein
SCE1572_7458	hypothetical protein	bi	sce_6242	69.95	Gll0645 protein
SCE1572_7459	FIG00817182: hypothetical protein	bi	sce_6243	48.77	FIG01087868: hypothetical protein
SCE1572_7460	FIG01089493: hypothetical protein	bi	sce_6244	68.97	FIG01089493: hypothetical protein
SCE1572_7461	Urea ABC transporter, substrate binding protein UrtA	bi	sce_6246	92.4	Urea ABC transporter, substrate binding protein UrtA
SCE1572_7462	Urea ABC transporter, permease protein UrtB	bi	sce_6247	97.32	Urea ABC transporter, permease protein UrtB
SCE1572_7463	Urea ABC transporter, permease protein UrtC	bi	sce_6248	90.11	Urea ABC transporter, permease protein UrtC
SCE1572_7464	Urea ABC transporter, ATPase protein UrtD	bi	sce_6249	91.14	Urea ABC transporter, ATPase protein UrtD
SCE1572_7465	Urea ABC transporter, ATPase protein UrtE	bi	sce_6250	95.28	Urea ABC transporter, ATPase protein UrtE
SCE1572_7466	FIG01088098: hypothetical protein	bi	sce_6251	80.52	FIG01088098: hypothetical protein
SCE1572_7467	LOC432261 protein	bi	sce_6263	85.14	LOC432261 protein
SCE1572_7468	Ornithine cyclodeaminase (EC 4.3.1.12)	bi	sce_6264	91.67	Ornithine cyclodeaminase (EC 4.3.1.12)
SCE1572_7469	cell surface receptor IPT/TIG domain protein	bi	sce_6265	67.11	Gll0995 protein
SCE1572_7470	hypothetical protein	bi	sce_6266	73.96	hypothetical protein
SCE1572_7471	hypothetical protein	-		0	
SCE1572_7472	cold shock domain family protein	bi	sce_6268	92.59	cold shock domain family protein
SCE1572_7473	serine/threonine protein kinase	bi	sce_6269	82.54	serine/threonine protein kinase
SCE1572_7474	HNH endonuclease family protein	bi	sce_6270	94.19	HNH endonuclease family protein
SCE1572_7475	60 kDa SS-A/Ro ribonucleoprotein homolog (Ro sixty-related protein)	bi	sce_6271	93.02	60 kDa SS-A/Ro ribonucleoprotein homolog (Ro sixty-related protein)
SCE1572_7476	hypothetical protein	-		0	
SCE1572_7477	Protoporphyrinogen IX oxidase, aerobic, HemY (EC 1.3.3.4)	bi	sce_6273	88.83	Protoporphyrinogen IX oxidase, aerobic, HemY (EC 1.3.3.4)
SCE1572_7478	hypothetical protein	bi	sce_6275	95.97	hypothetical protein
SCE1572_7479	hypothetical protein	bi	sce_6276	88.51	FIG01086190: hypothetical protein
SCE1572_7480	FIG01088599: hypothetical protein	bi	sce_6278	86.34	FIG01088599: hypothetical protein
SCE1572_7481	hypothetical protein	bi	sce_6279	75	hypothetical protein
SCE1572_7482	hypothetical protein	bi	sce_6280	87.93	hypothetical protein
SCE1572_7483	FIG01088413: hypothetical protein	bi	sce_6281	75.53	FIG01088413: hypothetical protein
SCE1572_7484	phyhd1 protein	-		0	
SCE1572_7485	ABC transporter ATP-binding protein uup	bi	sce_6306	94.62	ABC transporter ATP-binding protein uup
SCE1572_7486	Transcriptional regulator, AraC family	uni	sce_620	36.62	Transcriptional regulator, AraC family
SCE1572_7487	peptidase, M19 family	bi	sce_615	84.01	peptidase, M19 family
SCE1572_7488	hypothetical protein	-		0	
SCE1572_7489	hypothetical protein	-		0	
SCE1572_7490	hypothetical protein	bi	sce_1486	61.43	VgrG protein
SCE1572_7491	small membrane hydrophobic protein	bi	sce_7440	33.6	putative membrane protein
SCE1572_7492	Transcriptional regulator, AraC family	bi	sce_7441	40.07	Transcriptional regulator, AraC family
SCE1572_7493	hypothetical protein	bi	sce_6083	95.45	hypothetical protein
SCE1572_7494	hypothetical protein	-		0	
SCE1572_7495	hypothetical protein	-		0	
SCE1572_7496	hypothetical protein	-		0	
SCE1572_7497	hypothetical protein	uni	sce_6867	76.32	hypothetical protein
SCE1572_7498	hypothetical protein	bi	sce_6863	80.77	hypothetical protein
SCE1572_7499	hypothetical protein	-		0	
SCE1572_7500	hypothetical protein	bi	sce_6307	65.52	hypothetical protein
SCE1572_7501	serine/threonine protein kinase	bi	sce_6309	79.12	serine/threonine protein kinase
SCE1572_7502	FIG01087536: hypothetical protein	bi	sce_6310	82.48	FIG01087536: hypothetical protein
SCE1572_7503	Gll0645 protein	bi	sce_6313	59.46	Cell division protein FtsZ (EC 3.4.24.-)
SCE1572_7504	EBNA-1	bi	sce_6314	57.74	putative lipoprotein
SCE1572_7505	Surface protein from Gram-positive cocci, anchor region	bi	sce_6315	68.8	PASTA domain containing protein
SCE1572_7506	FIG01085109: hypothetical protein	uni	sce_8592	67.23	FIG01085109: hypothetical protein
SCE1572_7507	FIG01085109: hypothetical protein	uni	sce_8592	66.88	FIG01085109: hypothetical protein
SCE1572_7508	FIG01085109: hypothetical protein	uni	sce_3937	74.73	FIG01085109: hypothetical protein
SCE1572_7509	hypothetical protein	-		0	
SCE1572_7510	FIG01085109: hypothetical protein	-		0	
SCE1572_7511	FIG01085109: hypothetical protein	-		0	
SCE1572_7512	hypothetical protein	-		0	
SCE1572_7513	hypothetical protein	uni	sce_6493	30.47	Translation initiation factor 2
SCE1572_7514	Twin-arginine translocation protein TatB	uni	sce_6331	52.63	Twin-arginine translocation protein TatB
SCE1572_7515	Twin-arginine translocation protein TatB	bi	sce_6331	75.29	Twin-arginine translocation protein TatB
SCE1572_7516	ABC transporter, ATP-binding component	bi	sce_6332	69.58	Twin-arginine translocation protein TatB
SCE1572_7517	Glucose-6-phosphate isomerase (EC 5.3.1.9)	bi	sce_6344	93.21	Glucose-6-phosphate isomerase (EC 5.3.1.9)
SCE1572_7518	2-oxoglutarate dehydrogenase E1 component (EC 1.2.4.2)	bi	sce_6345	94.68	2-oxoglutarate dehydrogenase E1 component (EC 1.2.4.2)
SCE1572_7519	thioesterase family protein	bi	sce_6346	92.95	thioesterase family protein
SCE1572_7520	LigA	bi	sce_6347	65.88	hypothetical protein
SCE1572_7521	putative histidine kinase protein	uni	sce_2157	44.35	Sensor protein
SCE1572_7522	two-component hybrid sensor and regulator	uni	sce_4477	39.53	Adenylate cyclase (EC 4.6.1.1)
SCE1572_7523	Two-component hybrid sensor and regulator	uni	sce_7643	39.8	Sensor protein
SCE1572_7524	S-adenosylmethionine decarboxylase proenzyme (EC 4.1.1.50), prokaryotic class 1B	bi	sce_6348	88.89	S-adenosylmethionine decarboxylase proenzyme (EC 4.1.1.50), prokaryotic class 1B
SCE1572_7525	Di-/tripeptide transporter	bi	sce_6349	93.04	Di-/tripeptide transporter
SCE1572_7526	hypothetical protein	-		0	
SCE1572_7527	FIG01087746: hypothetical protein	bi	sce_6351	81.94	FIG01087746: hypothetical protein
SCE1572_7528	AAA ATPase	bi	sce_6352	92.02	AAA ATPase
SCE1572_7529	transposase, IS4	-		0	
SCE1572_7530	FIG01087975: hypothetical protein	bi	sce_6375	82.8	FIG01087975: hypothetical protein
SCE1572_7531	hypothetical protein	bi	sce_6373	50.85	hypothetical protein
SCE1572_7532	FIG01087249: hypothetical protein	uni	sce_2337	87.55	FIG01087249: hypothetical protein
SCE1572_7533	hypothetical protein	-		0	
SCE1572_7534	possible A. fulgidus predicted coding region AF1859	bi	sce_6381	94.12	CRISPR repeat RNA endoribonuclease Cas6
SCE1572_7535	hypothetical protein	bi	sce_6382	86.08	hypothetical protein
SCE1572_7536	EBNA-1	bi	sce_6383	76.15	FIG01086339: hypothetical protein
SCE1572_7537	FIG01085566: hypothetical protein	bi	sce_6401	75.82	FIG01085566: hypothetical protein
SCE1572_7538	Cellulase(EC:3.2.1.4)	bi	sce_6403	80.7	Cellulase(EC:3.2.1.4)
SCE1572_7539	GCN5-related N-acetyltransferase	bi	sce_6404	54.92	Single-stranded DNA-binding protein
SCE1572_7540	lipolytic enzyme, G-D-S-L	bi	sce_6405	82.07	Acetylxylan esterase, acyl-CoA esterase or GDSL lipase family, strong similarity to C-terminal region of endoglucanase E precursor
SCE1572_7541	hypothetical protein	bi	sce_6406	76.23	hypothetical protein

SCE1572_7542	Thiol peroxidase, Tpx-type (EC 1.11.1.15)	bi	sce_6407	87.8	Thiol peroxidase, Tpx-type (EC 1.11.1.15)
SCE1572_7543	Cytochrome P450	bi	sce_6408	88.34	Cytochrome P450
SCE1572_7544	phospholipid/glycerol acyltransferase	bi	sce_6409	85.96	phospholipid/glycerol acyltransferase
SCE1572_7545	Ribose ABC transporter, periplasmic ribose-binding protein RbsB (TC 3.A.1.2.1)	bi	sce_9213	93.51	Ribose ABC transporter, periplasmic ribose-binding protein RbsB (TC 3.A.1.2.1)
SCE1572_7546	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)	bi	sce_9212	92.86	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)
SCE1572_7547	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	bi	sce_9211	94.3	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_7548	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	bi	sce_9210	92.86	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_7549	Tat (Twin-arginine translocation) pathway signal sequence domain protein	bi	sce_5154	88.98	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_7550	Cellulose-binding domain protein	bi	sce_5153	86	Cellulose-binding domain protein
SCE1572_7551	hypothetical protein	uni	sce_8674	30.71	hypothetical protein
SCE1572_7552	Glycosyl transferase, group 1	bi	sce_6410	88.12	Glycosyl transferase, group 1 family protein
SCE1572_7553	PTPS-like type 4	bi	sce_6411	90.91	PTPS-like type 4
SCE1572_7554	Threonine dehydrogenase and related Zn-dependent dehydrogenases	bi	sce_6412	91.09	Threonine dehydrogenase and related Zn-dependent dehydrogenases
SCE1572_7555	Riboflavin-specific deaminase-like protein(EC:1.1.1.193)	bi	sce_6413	75.97	2, 5-diamino-6-hydroxy-4-(5-phosphoribosylamino)pyrimidine 1-reductase(EC:1.1.1.193)
SCE1572_7556	hypothetical protein	-		0	
SCE1572_7557	Ferredoxin	bi	sce_6415	82.49	Ferredoxin
SCE1572_7558	Signal peptidase I (EC 3.4.21.89)	uni	sce_8142	33.62	Signal peptidase I (EC 3.4.21.89)
SCE1572_7559	monooxygenase, flavin-binding family	bi	sce_3680	89.29	monooxygenase, flavin-binding family
SCE1572_7560	Carboxypeptidase	bi	sce_9660	83.84	Carboxypeptidase
SCE1572_7561	hypothetical protein	-		0	
SCE1572_7562	RD1 region associated protein Rv3876	bi	sce_1286	67	RD1 region associated protein Rv3876
SCE1572_7563	putative lipoprotein	bi	sce_5995	79.34	putative lipoprotein
SCE1572_7564	hypothetical protein	-		0	
SCE1572_7565	putative glutathione S-transferase	-		0	
SCE1572_7566	ComA operon protein 2	bi	sce_6421	87.58	ComA operon protein 2
SCE1572_7567	D-cysteine desulfhydrase (EC 4.4.1.15)	bi	sce_6422	86.38	D-cysteine desulfhydrase (EC 4.4.1.15)
SCE1572_7568	Proline-rich protein	bi	sce_6423	79.56	Proline-rich protein
SCE1572_7569	FIG01087451: hypothetical protein	bi	sce_6424	83.09	FIG01087451: hypothetical protein
SCE1572_7570	Transcriptional regulator, DeoR family	uni	sce_9911	52.78	Transcriptional regulator, DeoR family
SCE1572_7571	FIG01089165: hypothetical protein	bi	sce_6425	85.1	FIG01089165: hypothetical protein
SCE1572_7572	hypothetical protein	uni	sce_6427	83.16	hypothetical protein
SCE1572_7573	erythrocyte membrane protein 1 (PfEMP1)	bi	sce_6428	70.2	Cellulase(EC:3.2.1.4)
SCE1572_7574	Permease of the drug/metabolite transporter (DMT) superfamily	bi	sce_6429	85.54	Permease of the drug/metabolite transporter (DMT) superfamily
SCE1572_7575	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)	bi	sce_6430	94.21	Transcriptional regulator, GntR family domain / Aspartate aminotransferase (EC 2.6.1.1)
SCE1572_7576	Nuclease sbcCD subunit C	bi	sce_6431	87.77	hypothetical protein
SCE1572_7577	Rrf2 family transcriptional regulator, group III	bi	sce_6432	95.27	Rrf2 family transcriptional regulator, group III
SCE1572_7578	Thioredoxin	bi	sce_6433	85.05	Thioredoxin
SCE1572_7579	Serine/threonine protein kinase PrkC, regulator of stationary phase	bi	sce_6435	92.23	serine/threonine protein kinase
SCE1572_7580	Flagellar hook-length control protein FliK	bi	sce_6436	78.83	Flagellar hook-length control protein FliK
SCE1572_7581	Sulfate adenylyltransferase, dissimilatory-type (EC 2.7.7.4)	bi	sce_6437	96.21	Sulfate adenylyltransferase, dissimilatory-type (EC 2.7.7.4)
SCE1572_7582	Sulfur carrier protein adenylyltransferase ThiF	bi	sce_6438	90	Sulfur carrier protein adenylyltransferase ThiF
SCE1572_7583	Cysteine synthase (EC 2.5.1.47)	bi	sce_6439	94.94	Cysteine synthase (EC 2.5.1.47)
SCE1572_7584	hypothetical protein	bi	sce_6440	82.76	hypothetical protein
SCE1572_7585	FIG038648: MoaD and/or ThiS families	bi	sce_6441	98.91	FIG038648: MoaD and/or ThiS families
SCE1572_7586	Sulfur carrier protein adenylyltransferase ThiF	bi	sce_6442	87.25	Sulfur carrier protein adenylyltransferase ThiF
SCE1572_7587	Cysteine synthase (EC 2.5.1.47)	bi	sce_6443	89.86	Cysteine synthase (EC 2.5.1.47)
SCE1572_7588	Iron-sulfur cluster regulator IscR	bi	sce_6444	94.04	Iron-sulfur cluster regulator IscR
SCE1572_7589	hypothetical protein	bi	sce_6448	88.81	hypothetical protein
SCE1572_7590	predicted protein	bi	sce_6449	73.26	hypothetical protein
SCE1572_7591	FIG01084907: hypothetical protein	bi	sce_6450	77.46	FIG01084907: hypothetical protein
SCE1572_7592	5'-nucleotidase (EC 3.1.3.5)	bi	sce_6451	89.04	5'-nucleotidase (EC 3.1.3.5)
SCE1572_7593	Phosphoenolpyruvate-protein phosphotransferase of PTS system (EC 2.7.3.9)	bi	sce_6452	94.83	Phosphoenolpyruvate-protein phosphotransferase of PTS system (EC 2.7.3.9)
SCE1572_7594	Phosphocarrier protein, nitrogen regulation associated	bi	sce_6453	92.13	Phosphotransferase system, phosphocarrier protein HPr
SCE1572_7595	FIG000506: Predicted P-loop-containing kinase	bi	sce_6454	89.35	Uncharacterised P-loop ATPase protein UPF0042
SCE1572_7596	HPr kinase/phosphorylase (EC 2.7.1.-) (EC 2.7.4.-)	bi	sce_6455	92.17	HPr kinase/phosphorylase (EC 2.7.1.-) (EC 2.7.4.-)
SCE1572_7597	PTS IIA-like nitrogen-regulatory protein PtsN	bi	sce_6456	93.71	PTS IIA-like nitrogen-regulatory protein PtsN
SCE1572_7598	hypothetical protein	-		0	
SCE1572_7599	Ribosomal subunit interface protein	bi	sce_6458	91.13	Ribosomal subunit interface protein
SCE1572_7600	hypothetical protein	bi	sce_6461	84.72	hypothetical protein
SCE1572_7601	serine/threonine protein kinase	bi	sce_6462	90.34	serine/threonine protein kinase
SCE1572_7602	Isocitrate dehydrogenase [NAD] (EC 1.1.1.41)	bi	sce_6463	95.92	Isocitrate dehydrogenase [NAD] (EC 1.1.1.41)
SCE1572_7603	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)	bi	sce_6464	74.62	Osmosensitive K channel histidine kinase KdpD (EC 2.7.3.-)
SCE1572_7604	hypothetical protein	bi	sce_6465	89.66	hypothetical protein
SCE1572_7605	hypothetical protein	bi	sce_10331	82.59	hypothetical protein
SCE1572_7606	RsbR, positive regulator of sigma-B	bi	sce_9946	82.74	RsbR, positive regulator of sigma-B
SCE1572_7607	FIG01087122: hypothetical protein	bi	sce_6467	90.19	FIG01087122: hypothetical protein
SCE1572_7608	hypothetical protein	-		0	
SCE1572_7609	Lactoylglutathione lyase (EC 4.4.1.5)	bi	sce_6470	80.65	Lactoylglutathione lyase (EC 4.4.1.5)
SCE1572_7610	FIG01085689: hypothetical protein	bi	sce_6471	91.29	FIG01085689: hypothetical protein
SCE1572_7611	acyl-CoA thioester hydrolase	bi	sce_6472	89.51	Acyl-CoA thioester hydrolase(EC:3.1.2.-)
SCE1572_7612	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_6473	90.38	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_7613	FIG01086043: hypothetical protein	bi	sce_6475	78.57	FIG01086043: hypothetical protein
SCE1572_7614	penicillin-insensitive murein endopeptidase	bi	sce_6476	74.03	penicillin-insensitive murein endopeptidase
SCE1572_7615	hypothetical protein	uni	sce_3256	29.43	sigma-54 dependent DNA-binding response regulator
SCE1572_7616	COG4928: Predicted P-loop ATPase	-		0	
SCE1572_7617	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit A (EC 2.8.3.5)	bi	sce_6477	96.43	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit A (EC 2.8.3.5)
SCE1572_7618	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit B (EC 2.8.3.5)	bi	sce_6478	96.83	Succinyl-CoA:3-ketoacid-coenzyme A transferase subunit B (EC 2.8.3.5)
SCE1572_7619	Acetyl-coenzyme A carboxyl transferase beta chain (EC 6.4.1.2)	bi	sce_6479	93.33	Acetyl-coenzyme A carboxyl transferase beta chain (EC 6.4.1.2)
SCE1572_7620	Dihydrofolate synthase (EC 6.3.2.12) / Folylpolyglutamate synthase (EC 6.3.2.17)	bi	sce_6480	86.14	Dihydrofolate synthase (EC 6.3.2.12) / Folylpolyglutamate synthase (EC 6.3.2.17)
SCE1572_7621	Ketoacyl reductase	bi	sce_6481	89.44	Ketoacyl reductase
SCE1572_7622	Phosphoglucosamine mutase (EC 5.4.2.10)	bi	sce_6482	97.08	Phosphoglucosamine mutase (EC 5.4.2.10)
SCE1572_7623	probable ABC transporter ATP-binding protein	bi	sce_6483	90.75	ATP-binding protein of ABC transporter
SCE1572_7624	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_6484	97.89	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_7625	hypothetical protein	bi	sce_6486	91.18	COLlagen
SCE1572_7626	hypothetical protein	bi	sce_6487	70.36	hypothetical protein
SCE1572_7627	protein of unknown function DUF323	uni	sce_6141	32.23	Sulfatase modifying factor 1 precursor (C-alpha-formyglycine- generating enzyme 1)
SCE1572_7628	Glycosyl transferase, group 2 family protein	bi	sce_6488	91.3	Glycosyl transferase, group 2 family protein
SCE1572_7629	Leucyl/phenylalanyl-tRNA--protein transferase (EC 2.3.2.6)	bi	sce_6489	93.22	Leucyl/phenylalanyl-tRNA--protein transferase (EC 2.3.2.6)
SCE1572_7630	Ribosome-binding factor A	bi	sce_6491	92.5	Ribosome-binding factor A
SCE1572_7631	YlxP-like protein	bi	sce_6492	92.37	YlxP-like protein
SCE1572_7632	Translation initiation factor 2	bi	sce_6493	92.9	Translation initiation factor 2
SCE1572_7633	Translation initiation factor 2	uni	sce_6493	79.55	Translation initiation factor 2
SCE1572_7634	COG2740: Predicted nucleic-acid-binding protein implicated in transcription termination / domain of unknown function	bi	sce_6494	78.85	COG2740: Predicted nucleic-acid-binding protein implicated in transcription termination / domain of unknown function
SCE1572_7635	Transcription termination protein NusA	bi	sce_6495	98.52	Transcription termination protein NusA
SCE1572_7636	FIG000325: clustered with transcription termination protein NusA	bi	sce_6496	88.12	FIG000325: clustered with transcription termination protein NusA
SCE1572_7637	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)	bi	sce_6497	95.69	D-3-phosphoglycerate dehydrogenase (EC 1.1.1.95)
SCE1572_7638	FIG01085861: hypothetical protein	bi	sce_6498	78.45	FIG01085861: hypothetical protein
SCE1572_7639	FIG01087419: hypothetical protein	bi	sce_6499	82.3	FIG01087419: hypothetical protein
SCE1572_7640	FIG01088444: hypothetical protein	bi	sce_6500	93.99	FIG01088444: hypothetical protein
SCE1572_7641	serine/threonine protein kinase	bi	sce_6501	99.29	serine/threonine protein kinase
SCE1572_7642	hypothetical protein	-		0	
SCE1572_7643	Serine/threonine protein kinase PrkC, regulator of stationary phase	bi	sce_6502	76.29	Serine/threonine protein kinase PrkC, regulator of stationary phase
SCE1572_7644	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins	bi	sce_6504	86.43	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins
SCE1572_7645	hypothetical protein	bi	sce_6505	85.01	hypothetical protein
SCE1572_7646	Serine proteases, subtilase family	bi	sce_6506	79.64	Serine proteases, subtilase family
SCE1572_7647	hypothetical protein	bi	sce_9653	80.94	hypothetical protein
SCE1572_7648	glycosyl hydrolase, BNR repeat-containing protein	bi	sce_2926	74.41	hypothetical protein
SCE1572_7649	Streptococcal hemagglutinin protein	uni	sce_7564	39.25	Putative galactosidase
SCE1572_7650	hypothetical protein	uni	sce_1486	46.88	VgrG protein
SCE1572_7651	Pectate lyase	-		0	
SCE1572_7652	Beta-xylosidase (EC 3.2.1.37)	uni	sce_5463	33.44	Beta-xylosidase (EC 3.2.1.37)
SCE1572_7653	hypothetical protein	uni	sce_9025	29.73	hypothetical protein
SCE1572_7654	XL	uni	sce_8663	33.5	hypothetical protein
SCE1572_7655	RNA polymerase sigma factor RpoE	uni	sce_8662	50.53	RNA polymerase sigma factor RpoE
SCE1572_7656	Epstein-Barr nuclear antigen 1 (EBV nuclear antigen 1) (EBNA-1)	uni	sce_8661	35.76	OmpA/MotB
SCE1572_7657	OmpA family protein	uni	sce_3697	30.03	PE-PGRS FAMILY PROTEIN
SCE1572_7658	hypothetical protein	-		0	
SCE1572_7659	hypothetical protein(EC:3.2.1.18)	bi	sce_9782	44.44	serine/threonine protein kinase, putative
SCE1572_7660	Collagen triple helix repeat	uni	sce_1320	41.07	FIG01086874: hypothetical protein
SCE1572_7661	FIG01087754: hypothetical protein	-		0	
SCE1572_7662	hypothetical protein	bi	sce_9807	84	hypothetical protein
SCE1572_7663	hypothetical protein	-		0	
SCE1572_7664	Mobile element protein	-		0	
SCE1572_7665	hypothetical protein	bi	sce_1677	98.78	PE-PGRS FAMILY PROTEIN
SCE1572_7666	Ankyrin	-		0	
SCE1572_7667	hypothetical protein	bi	sce_2109	31.58	FIG01089134: hypothetical protein
SCE1572_7668	FIG01087249: hypothetical protein	uni	sce_2338	95	Transposase
SCE1572_7669	serine/threonine protein kinase	uni	sce_5751	38.23	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_7670	hypothetical protein	-		0	
SCE1572_7671	hypothetical protein	-		0	
SCE1572_7672	hypothetical protein	-		0	
SCE1572_7673	FIG01085109: hypothetical protein	uni	sce_3937	26.59	FIG01085109: hypothetical protein
SCE1572_7674	Rhs family protein	uni	sce_3937	29.7	FIG01085109: hypothetical protein
SCE1572_7675	Rhs family protein-like protein	uni	sce_3939	31.58	FIG01085109: hypothetical protein
SCE1572_7676	hypothetical protein	uni	sce_3858	30.77	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_7677	hypothetical protein	bi	sce_6508	82.08	hypothetical protein
SCE1572_7678	FIG01087525: hypothetical protein	bi	sce_6509	91.89	FIG01087525: hypothetical protein
SCE1572_7679	Nickel transporter UreH	bi	sce_6510	80.47	Nickel transporter UreH
SCE1572_7680	sensor histidine kinase/response regulator	bi	sce_6511	94.05	sensor histidine kinase/response regulator
SCE1572_7681	Signal transduction histidine kinase	bi	sce_6512	83.91	Signal transduction histidine kinase
SCE1572_7682	Small GTP-binding protein domain	bi	sce_6513	87.28	Small GTP-binding protein domain
SCE1572_7683	hypothetical protein	bi	sce_6514	79.63	OmpA/MotB
SCE1572_7684	hypothetical protein	-		0	
SCE1572_7685	hypothetical protein	bi	sce_6515	76.02	hypothetical protein
SCE1572_7686	hypothetical protein	-		0	
SCE1572_7687	hypothetical protein	bi	sce_6516	77.16	hypothetical protein
SCE1572_7688	hypothetical protein	-		0	
SCE1572_7689	FIG01087249: hypothetical protein	uni	sce_2338	93.48	Transposase
SCE1572_7690	FIG01087249: hypothetical protein	uni	sce_2338	92.86	Transposase
SCE1572_7691	hypothetical protein	bi	sce_6517	78.35	hypothetical protein
SCE1572_7692	Methylamine utilization protein mauG	bi	sce_6518	80.67	Methylamine utilization protein mauG
SCE1572_7693	FIG01085716: hypothetical protein	bi	sce_6519	67.44	FIG01085716: hypothetical protein
SCE1572_7694	Outer membrane receptor proteins, mostly Fe transport	bi	sce_6520	84.99	Outer membrane receptor proteins, mostly Fe transport
SCE1572_7695	putative lipoprotein	bi	sce_6521	79.53	hypothetical protein
SCE1572_7696	putative lipoprotein	bi	sce_6522	88.53	hypothetical protein
SCE1572_7697	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	bi	sce_6523	73.41	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_7698	monooxygenase, FAD-binding	bi	sce_6524	90.07	hypothetical protein
SCE1572_7699	Methyltransferase	bi	sce_6525	90.94	methyltransferase type 11
SCE1572_7700	peptidase M19, renal dipeptidase	bi	sce_6526	88.56	peptidase, M19 (membrane dipeptidase) family(EC:3.4.-)
SCE1572_7701	Quaternary ammonium compound-resistance protein sugE	bi	sce_6527	84.62	Quaternary ammonium compound-resistance protein sugE
SCE1572_7702	COG3866 Pectate lyase	bi	sce_6528	86.11	COG3866 Pectate lyase
SCE1572_7703	Pyridoxine 5'-phosphate synthase (EC 2.6.99.2)	bi	sce_6536	94.26	Pyridoxine 5'-phosphate synthase (EC 2.6.99.2)
SCE1572_7704	hypothetical protein	bi	sce_6537	68.52	hypothetical protein
SCE1572_7705	hypothetical protein	-		0	

SCE1572_7706	23S rRNA (guanine-N-2-) -methyltransferase rlmL EC 2.1.1.-)	bi	sce_6538	95.12	putative RNA methylase
SCE1572_7707	serine/threonine protein kinase	bi	sce_6539	78.12	serine/threonine protein kinase
SCE1572_7708	hypothetical protein	bi	sce_6540	55.34	hypothetical protein
SCE1572_7709	FIG01088683: hypothetical protein	bi	sce_6541	81.88	FIG01088683: hypothetical protein
SCE1572_7710	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)	bi	sce_6542	82.14	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)
SCE1572_7711	major facilitator superfamily MFS_1	bi	sce_6543	88.31	multidrug-efflux transporter
SCE1572_7712	Carboxypeptidase A1 precursor (EC 3.4.17.1)	bi	sce_6544	77.2	carboxypeptidase B
SCE1572_7713	FIG01084923: hypothetical protein	bi	sce_6545	90.5	FIG01084923: hypothetical protein
SCE1572_7714	hypothetical protein	uni	sce_529	68.34	hypothetical protein
SCE1572_7715	ABC transporter, permease protein	uni	sce_3979	34.59	RIBOSE TRANSPORT SYSTEM PERMEASE PROTEIN RBSC
SCE1572_7716	inner-membrane translocator	uni	sce_8679	37.89	inner-membrane translocator
SCE1572_7717	sugar transport ATP-binding protein	uni	sce_8677	41.63	Putative deoxyribose-specific ABC transporter, ATP-binding protein
SCE1572_7718	conserved domain protein	bi	sce_6546	89.96	conserved domain protein
SCE1572_7719	peptidoglycan-associated lipoprotein	bi	sce_6547	84.52	OmpA/MotB
SCE1572_7720	GMP synthase [glutamine-hydrolyzing] (EC 6.3.5.2)	bi	sce_6548	94.41	GMP synthase [glutamine-hydrolyzing] (EC 6.3.5.2)
SCE1572_7721	hypothetical protein	-		0	
SCE1572_7722	hypothetical protein	-		0	
SCE1572_7723	ATP/GTP-binding protein, SA1392 homolog	bi	sce_6549	95.02	ATP/GTP-binding protein, SA1392 homolog
SCE1572_7724	Chaperone protein DnaJ	bi	sce_6550	93.04	Chaperone protein DnaJ
SCE1572_7725	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_6551	84.92	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_7726	hypothetical protein	bi	sce_6552	92.31	type IV pilus assembly PilZ
SCE1572_7727	DNA double-strand break repair Rad50 ATPase	bi	sce_6553	88.76	TPR domain protein, putative component of TonB system
SCE1572_7728	hypothetical protein	-		0	
SCE1572_7729	FIG01086521: hypothetical protein	bi	sce_6554	85.98	FIG01086521: hypothetical protein
SCE1572_7730	FIG01086093: hypothetical protein	bi	sce_6555	79.14	FIG01086093: hypothetical protein
SCE1572_7731	hypothetical protein	bi	sce_6556	90.1	hypothetical protein
SCE1572_7732	PROBABLE GSPD-RELATED PROTEIN	bi	sce_6557	73.52	FIG01088605: hypothetical protein
SCE1572_7733	RNA polymerase sigma factor RpoE	bi	sce_6558	86.77	RNA polymerase sigma factor RpoE
SCE1572_7734	hypothetical protein	bi	sce_6559	91.67	hypothetical protein
SCE1572_7735	hypothetical protein	bi	sce_6560	93.89	hypothetical protein
SCE1572_7736	Purine nucleoside phosphorylase (EC 2.4.2.1)	bi	sce_6561	90.31	Purine nucleoside phosphorylase (EC 2.4.2.1)
SCE1572_7737	Cytidine deaminase (EC 3.5.4.5)	bi	sce_6562	86.36	Cytidine deaminase (EC 3.5.4.5)
SCE1572_7738	plectin 1 isoform 8	bi	sce_6563	74.47	plectin 1 isoform 8
SCE1572_7739	hypothetical protein	-		0	
SCE1572_7740	6-phosphofructokinase (EC 2.7.1.11)	bi	sce_6564	95.98	6-phosphofructokinase (EC 2.7.1.11)
SCE1572_7741	integral membrane protein	bi	sce_6565	86.12	hypothetical protein
SCE1572_7742	Serine protease precursor MucD/AlgY associated with sigma factor RpoE	bi	sce_6566	86.9	Serine protease precursor MucD/AlgY associated with sigma factor RpoE
SCE1572_7743	Pyrroline-5-carboxylate reductase (EC 1.5.1.2)	bi	sce_6567	95.44	Pyrroline-5-carboxylate reductase (EC 1.5.1.2)
SCE1572_7744	RNA polymerase sigma factor RpoH	bi	sce_6568	99.65	RNA polymerase sigma factor RpoH
SCE1572_7745	probable iron binding protein from the HesB_IscA_SufA family	bi	sce_6569	99.07	probable iron binding protein from the HesB_IscA_SufA family
SCE1572_7746	5-methyltetrahydrofolate--homocysteine methyltransferase (EC 2.1.1.13)	bi	sce_6571	91.98	5-methyltetrahydrofolate--homocysteine methyltransferase (EC 2.1.1.13)
SCE1572_7747	FIG01085864: hypothetical protein	bi	sce_6572	87.97	FIG01085864: hypothetical protein
SCE1572_7748	OmpA/MotB domain protein	uni	sce_577	33.01	zinc finger/thioredoxin putative
SCE1572_7749	hypothetical protein	-		0	
SCE1572_7750	hypothetical protein	-		0	
SCE1572_7751	VgrG protein	uni	sce_9404	32.49	VgrG protein
SCE1572_7752	hypothetical protein	-		0	
SCE1572_7753	hypothetical protein	-		0	
SCE1572_7754	PAAR repeat-containing protein	uni	sce_5221	46.97	hypothetical protein
SCE1572_7755	hypothetical protein	-		0	
SCE1572_7756	Glutathione S-transferase (EC 2.5.1.18)	uni	sce_4136	57.01	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_7757	Transcriptional regulator, LysR family	uni	sce_7565	40.91	transcriptional regulator, LysR family
SCE1572_7758	probable putative transmembrane protein	bi	sce_6574	81.68	hypothetical protein
SCE1572_7759	Allantoinase (EC 3.5.2.5)	bi	sce_6577	94.24	Allantoinase (EC 3.5.2.5)
SCE1572_7760	Allantoicase (EC 3.5.3.4)	bi	sce_6578	88.63	allantoicase(EC:3.5.3.4)
SCE1572_7761	hypothetical protein	bi	sce_6579	80.69	hypothetical protein
SCE1572_7762	Transcriptional regulator, TetR family	uni	sce_5497	36.47	TetR-family transcriptional regulator
SCE1572_7763	hypothetical protein	bi	sce_6581	78.95	hypothetical protein
SCE1572_7764	putative lipoprotein	bi	sce_6582	71.21	putative lipoprotein
SCE1572_7765	5-Hydroxyisourate Hydrolase (HIUase) (EC 3.5.2.17)	bi	sce_6583	89.38	5-Hydroxyisourate Hydrolase (HIUase) (EC 3.5.2.17)
SCE1572_7766	FIG00841714: hypothetical protein	bi	sce_6584	88.68	hypothetical protein
SCE1572_7767	hypothetical protein	-		0	
SCE1572_7768	FIG01086124: hypothetical protein	bi	sce_6585	69.17	FIG01086124: hypothetical protein
SCE1572_7769	FOG: PKD repeat	bi	sce_6586	89.28	FOG: PKD repeat
SCE1572_7770	COLlagen	bi	sce_6587	81.73	General secretory system II, protein E-like
SCE1572_7771	Imidazole glycerol phosphate synthase cyclase subunit (EC 4.1.3.-)	bi	sce_6588	95.93	Imidazole glycerol phosphate synthase cyclase subunit (EC 4.1.3.-)
SCE1572_7772	hypothetical protein	bi	sce_6589	57.09	OmpA/MotB
SCE1572_7773	putative membrane protein	bi	sce_6590	90.16	putative membrane protein
SCE1572_7774	DNA repair protein RadC	uni	sce_8397	84.48	DNA repair protein RadC
SCE1572_7775	Rhs-family protein	uni	sce_3584	46.46	Probable Rhs-family protein
SCE1572_7776	FIG01087953: hypothetical protein	uni	sce_4592	85.47	FIG01086445: hypothetical protein
SCE1572_7777	DNA repair protein RadC	bi	sce_512	87.02	DNA repair protein RadC
SCE1572_7778	hypothetical protein	bi	sce_513	82.49	FIG01087636: hypothetical protein
SCE1572_7779	Transcriptional regulator Cro/CI family	uni	sce_514	48.78	hypothetical protein
SCE1572_7780	Integron integrase IntIPac	uni	sce_515	84.29	Integron integrase IntIPac
SCE1572_7781	hypothetical protein	-		0	
SCE1572_7782	hypothetical protein	-		0	
SCE1572_7783	hypothetical protein	-		0	
SCE1572_7784	FIG01087953: hypothetical protein	uni	sce_518	92.43	FIG01087953: hypothetical protein
SCE1572_7785	hypothetical protein	-		0	
SCE1572_7786	FIG01087372: hypothetical protein	uni	sce_522	90.97	FIG01087372: hypothetical protein
SCE1572_7787	Adenosylhomocysteinase (EC 3.3.1.1)	-		0	
SCE1572_7788	hypothetical protein	-		0	
SCE1572_7789	hypothetical protein	-		0	
SCE1572_7790	hypothetical protein	bi	sce_6596	77.61	hypothetical protein
SCE1572_7791	Xanthine dehydrogenase, FAD binding subunit (EC 1.17.1.4)	bi	sce_6597	86.08	Xanthine dehydrogenase, FAD binding subunit (EC 1.17.1.4)
SCE1572_7792	4-hydroxybenzoyl-CoA reductase, gamma subunit (EC 1.3.99.20)	bi	sce_6598	94.38	4-hydroxybenzoyl-CoA reductase, gamma subunit (EC 1.3.99.20)
SCE1572_7793	Xanthine dehydrogenase, molybdenum binding subunit (EC 1.17.1.4)	bi	sce_6599	92.57	Xanthine dehydrogenase, molybdenum binding subunit (EC 1.17.1.4)
SCE1572_7794	hypothetical protein	bi	sce_6600	91.79	hypothetical protein
SCE1572_7795	XdhC protein (assists in molybdopterin insertion into xanthine dehydrogenase)	bi	sce_6601	85.27	XdhC protein (assists in molybdopterin insertion into xanthine dehydrogenase)
SCE1572_7796	ATPase	uni	sce_9281	30.85	ATP binding protein
SCE1572_7797	hypothetical protein	bi	sce_1587	41.51	hypothetical protein
SCE1572_7798	Predicted N6-adenine-specific RNA methylase containing THUMP domain	bi	sce_6602	59.28	hypothetical protein
SCE1572_7799	hypothetical protein	bi	sce_6604	66.67	hypothetical protein
SCE1572_7800	Magnesium and cobalt efflux protein CorC	bi	sce_6605	96.57	Magnesium and cobalt efflux protein CorC
SCE1572_7801	Glutamate--cysteine ligase (EC 6.3.2.2)	bi	sce_6606	92.33	Glutamate--cysteine ligase (EC 6.3.2.2)
SCE1572_7802	5,10-methylenetetrahydrofolate reductase (EC 1.5.1.20) / Homolog of homocysteine-binding domain	bi	sce_6607	93.52	5,10-methylenetetrahydrofolate reductase (EC 1.5.1.20) / Homolog of homocysteine-binding domain
SCE1572_7803	hypothetical protein	bi	sce_6608	73.58	hypothetical protein
SCE1572_7804	FIG01086517: hypothetical protein	bi	sce_6609	96.49	FIG01086517: hypothetical protein
SCE1572_7805	Double-transmembrane region-like	bi	sce_6610	93.7	hypothetical protein
SCE1572_7806	hypothetical protein	bi	sce_6611	95.58	hypothetical protein
SCE1572_7807	Methanol dehydrogenase regulator (MoxR) homolog	bi	sce_6612	95.51	Methanol dehydrogenase regulator (MoxR) homolog
SCE1572_7808	hypothetical protein	bi	sce_6613	94.27	hypothetical protein
SCE1572_7809	hypothetical protein	-		0	
SCE1572_7810	hypothetical protein	bi	sce_6614	73.86	Exonuclease SbcC
SCE1572_7811	hypothetical protein	bi	sce_6615	90.5	hypothetical protein
SCE1572_7812	hypothetical protein	bi	sce_6616	95.81	hypothetical protein
SCE1572_7813	hypothetical protein	-		0	
SCE1572_7814	Heat shock protein 60 family co-chaperone GroES	bi	sce_6617	97.92	Heat shock protein 60 family co-chaperone GroES
SCE1572_7815	Heat shock protein 60 family chaperone GroEL	bi	sce_6618	98.34	Heat shock protein 60 family chaperone GroEL
SCE1572_7816	Ribosomal-protein-alanine acetyltransferase (EC 2.3.1.128)	bi	sce_6619	93.22	Ribosomal-protein-alanine acetyltransferase (EC 2.3.1.128)
SCE1572_7817	POSSIBLE RNA METHYLTRANSFERASE (RNA METHYLASE)	bi	sce_6620	95.98	tRNA/rRNA methyltransferase
SCE1572_7818	hypothetical protein	bi	sce_6621	79.7	hypothetical protein
SCE1572_7819	Asparaginyl-tRNA synthetase (EC 6.1.1.22)	bi	sce_6622	93.72	Asparaginyl-tRNA synthetase (EC 6.1.1.22)
SCE1572_7820	Glutamine amidotransferases class-II	bi	sce_6623	97.12	Glutamine amidotransferases class-II
SCE1572_7821	FIG01087965: hypothetical protein	bi	sce_6624	86.47	FIG01087965: hypothetical protein
SCE1572_7822	FIG01087972: hypothetical protein	bi	sce_6625	99.01	FIG01087972: hypothetical protein
SCE1572_7823	hypothetical protein	bi	sce_6626	90.7	hypothetical protein
SCE1572_7824	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)	bi	sce_6627	90.39	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)
SCE1572_7825	hypothetical protein	bi	sce_6628	84.15	hypothetical protein
SCE1572_7826	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)	bi	sce_6629	91.64	3-oxoacyl-[acyl-carrier-protein] synthase, KASII (EC 2.3.1.41)
SCE1572_7827	Acyl carrier protein	bi	sce_6630	97.92	Acyl carrier protein
SCE1572_7828	Enoyl-CoA hydratase (EC 4.2.1.17)	bi	sce_6631	97.34	Enoyl-CoA hydratase (EC 4.2.1.17)
SCE1572_7829	FIG01089576: hypothetical protein	bi	sce_6632	77.55	FIG01089576: hypothetical protein
SCE1572_7830	FIG01087330: hypothetical protein	bi	sce_6633	92.8	FIG01087330: hypothetical protein
SCE1572_7831	MoxR-like ATPase in aerotolerance operon	bi	sce_6634	96.22	MoxR-like ATPase in aerotolerance operon
SCE1572_7832	phosphohistidine phosphatase, SixA	bi	sce_6635	88.57	phosphohistidine phosphatase, SixA
SCE1572_7833	FIG01086953: hypothetical protein	bi	sce_6636	80.06	FIG01086953: hypothetical protein
SCE1572_7834	hypothetical protein	bi	sce_6637	79.69	hypothetical protein
SCE1572_7835	hypothetical protein	bi	sce_6638	95.7	hypothetical protein
SCE1572_7836	Ribosomal large subunit pseudouridine synthase D (EC 4.2.1.70)	bi	sce_6639	91.59	Ribosomal large subunit pseudouridine synthase D (EC 4.2.1.70)
SCE1572_7837	hypothetical protein	bi	sce_6640	100	hypothetical protein
SCE1572_7838	Conserved membrane protein	bi	sce_6641	86.18	probable O-linked GlcNAc transferase-putative TPR-containing transmembrane protein
SCE1572_7839	Septum formation protein Maf	bi	sce_6642	89.95	Septum formation protein Maf
SCE1572_7840	OmpA	bi	sce_6644	84.47	OmpA
SCE1572_7841	FIG01087550: hypothetical protein	bi	sce_6645	83.67	FIG01087550: hypothetical protein
SCE1572_7842	Capsular polysaccharide synthesis enzyme CpsC, polysaccharide export	bi	sce_6646	93.01	Capsular polysaccharide synthesis enzyme CpsC, polysaccharide export
SCE1572_7843	FIG01086724: hypothetical protein	bi	sce_6647	83.15	FIG01086724: hypothetical protein
SCE1572_7844	FIG01087823: hypothetical protein	bi	sce_6648	93.72	FIG01087823: hypothetical protein
SCE1572_7845	hypothetical protein	bi	sce_6649	94.61	NADH-ubiquinone oxidoreductase chain J (EC 1.6.5.3)
SCE1572_7846	hypothetical protein	bi	sce_6650	79.13	hypothetical protein
SCE1572_7847	FIG01086734: hypothetical protein	bi	sce_6651	96.34	FIG01086734: hypothetical protein
SCE1572_7848	FIG01088890: hypothetical protein	bi	sce_6652	90.47	FIG01088890: hypothetical protein
SCE1572_7849	tetratricopeptide repeat domain protein	bi	sce_6653	92.13	tetratricopeptide repeat protein
SCE1572_7850	hypothetical protein	bi	sce_6654	93.42	tetratricopeptide repeat domain protein
SCE1572_7851	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_6655	85.32	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_7852	hypothetical protein	-		0	
SCE1572_7853	RNA polymerase sigma-70 factor, ECF subfamily	bi	sce_6656	95.63	RNA polymerase sigma-70 factor, ECF subfamily
SCE1572_7854	Fe-S oxidoreductase	bi	sce_6657	79.58	Hypothetical protein
SCE1572_7855	FIG01087628: hypothetical protein	bi	sce_6658	87.95	FIG01087628: hypothetical protein
SCE1572_7856	glycosyl transferase, family 39, putative	bi	sce_6659	83.75	hypothetical protein
SCE1572_7857	GTP-binding protein Era	bi	sce_6660	93.87	GTP-binding protein Era
SCE1572_7858	GTP-binding protein EngA	bi	sce_6661	88.31	GTP-binding protein EngA
SCE1572_7859	hypothetical protein	-		0	
SCE1572_7860	hypothetical protein	-		0	
SCE1572_7861	GTP-binding protein EngA	-		0	
SCE1572_7862	Arsenical pump-driving ATPase (EC 3.6.3.16)	bi	sce_6662	94.91	Arsenical pump-driving ATPase (EC 3.6.3.16)
SCE1572_7863	hypothetical protein	bi	sce_6663	83.8	hypothetical protein
SCE1572_7864	Manganese-dependent protein-tyrosine phosphatase (EC 3.1.3.48)	bi	sce_6664	90.12	Manganese-dependent protein-tyrosine phosphatase (EC 3.1.3.48)
SCE1572_7865	serine/threonine protein kinase	bi	sce_6667	87.93	serine/threonine protein kinase
SCE1572_7866	RecA protein	bi	sce_6668	94.92	RecA protein
SCE1572_7867	phosphohistidine phosphatase SixA	bi	sce_6669	80.24	Uncharacterized protein sll0400 (EC 3.1.3.-)
SCE1572_7868	FIG01086717: hypothetical protein	bi	sce_6670	93.36	FIG01086717: hypothetical protein
SCE1572_7869	tRNA nucleotidyltransferase (EC 2.7.7.21) (EC 2.7.7.25)	bi	sce_6671	91.95	tRNA nucleotidyltransferase (EC 2.7.7.21) (EC 2.7.7.25)

SCE1572_7870	hypothetical protein	bi	sce_6672	86.89	hypothetical protein
SCE1572_7871	hypothetical protein	bi	sce_6673	77.64	hypothetical protein
SCE1572_7872	serine/threonine-protein kinase Pkn6(EC:2.7.11.1)	bi	sce_6674	93.53	serine/threonine protein kinase
SCE1572_7873	Thiol peroxidase, Bcp-type (EC 1.11.1.15)	bi	sce_6675	92.86	Thiol peroxidase, Bcp-type (EC 1.11.1.15)
SCE1572_7874	hypothetical protein	bi	sce_6676	76.98	hypothetical protein
SCE1572_7875	similar to 2,3-bisphosphoglycerate-independent phosphoglycerate mutase	bi	sce_6678	90.3	similar to 2,3-bisphosphoglycerate-independent phosphoglycerate mutase
SCE1572_7876	hydrolase of the alpha/beta superfamily N	bi	sce_6679	80.88	temperature sensitive supressor-like protein
SCE1572_7877	Predicted phosphoesterases, related to the Icc protein	bi	sce_6680	89.88	Predicted phosphoesterases, related to the Icc protein
SCE1572_7878	FIG01089313: hypothetical protein	bi	sce_6681	82.49	FIG01089313: hypothetical protein
SCE1572_7879	Succinate-semialdehyde dehydrogenase [NAD] (EC 1.2.1.24); Succinate-semialdehyde dehydrogenase [NADP] (EC 1.2.1.16)	bi	sce_6682	93.38	Succinate-semialdehyde dehydrogenase [NAD] (EC 1.2.1.24); Succinate-semialdehyde dehydrogenase [NADP] (EC 1.2.1.16)
SCE1572_7880	FIG01086235: hypothetical protein	bi	sce_6684	82.05	FIG01086235: hypothetical protein
SCE1572_7881	Xylose ABC transporter, substrate-binding component	bi	sce_6685	76.74	Xylose ABC transporter, substrate-binding component
SCE1572_7882	Fumarylacetoacetate hydrolase family protein	uni	sce_5476	94.15	Fumarylacetoacetate hydrolase family protein
SCE1572_7883	Maleylacetoacetate isomerase (EC 5.2.1.2) / Glutathione S-transferase	bi	sce_6688	92.63	Maleylacetoacetate isomerase (EC 5.2.1.2) / Glutathione S-transferase
SCE1572_7884	4-hydroxyphenylpyruvate dioxygenase (EC 1.13.11.27)	bi	sce_5475	93.62	4-hydroxyphenylpyruvate dioxygenase (EC 1.13.11.27)
SCE1572_7885	Homogentisate 1,2-dioxygenase (EC 1.13.11.5)	bi	sce_5474	91.95	Homogentisate 1,2-dioxygenase (EC 1.13.11.5)
SCE1572_7886	hypothetical protein	bi	sce_6691	59.12	hypothetical protein
SCE1572_7887	Deoxyhypusine synthase	bi	sce_6692	96.19	Deoxyhypusine synthase
SCE1572_7888	FIG01086591: hypothetical protein	bi	sce_6693	74.95	FIG01086591: hypothetical protein
SCE1572_7889	hypothetical protein	bi	sce_6694	80.69	hypothetical protein
SCE1572_7890	FIG01085668: hypothetical protein	bi	sce_6695	85.82	FIG01085668: hypothetical protein
SCE1572_7891	FIG01087636: hypothetical protein	uni	sce_10334	48.48	FIG01087636: hypothetical protein
SCE1572_7892	hypothetical protein	-		0	
SCE1572_7893	hypothetical protein	bi	sce_2085	78.26	hypothetical protein
SCE1572_7894	SRp25 nuclear protein, isoform 3, putative	bi	sce_6696	87.04	hypothetical protein
SCE1572_7895	hypothetical protein	-		0	
SCE1572_7896	RNA-binding protein	bi	sce_2087	92.22	RNA-binding protein
SCE1572_7897	hypothetical protein	-		0	
SCE1572_7898	Undecaprenyl-diphosphatase (EC 3.6.1.27)	bi	sce_6698	90.23	Undecaprenyl-diphosphatase (EC 3.6.1.27)
SCE1572_7899	hypothetical protein	bi	sce_1016	33.08	FIG01085492: hypothetical protein
SCE1572_7900	hypothetical protein, INTERPRO-suggestion: probable ferritin-like	uni	sce_7172	48.97	hypothetical protein, INTERPRO-suggestion: probable ferritin-like
SCE1572_7901	FIG01089058: hypothetical protein	uni	sce_7173	69.59	FIG01089058: hypothetical protein
SCE1572_7902	RedD	bi	sce_6705	73.82	RedD
SCE1572_7903	Glyoxalase family protein	bi	sce_6706	89.54	Glyoxalase family protein
SCE1572_7904	transcriptional regulator	bi	sce_6707	86.93	transcriptional regulator
SCE1572_7905	Tat (twin-arginine translocation) pathway signal sequence domain protein	uni	sce_3293	39.49	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_7906	hypothetical protein	-		0	
SCE1572_7907	Superoxide dismutase [Fe] (EC 1.15.1.1)	bi	sce_4677	95.83	Superoxide dismutase [Fe] (EC 1.15.1.1)
SCE1572_7908	hypothetical protein	-		0	
SCE1572_7909	hypothetical protein	-		0	
SCE1572_7910	Cytidine/deoxycytidylate deaminase, zinc-binding region	uni	sce_2901	40.2	tRNA-specific adenosine-34 deaminase (EC 3.5.4.-)
SCE1572_7911	hypothetical protein	bi	sce_1247	91.41	hypothetical protein
SCE1572_7912	hypothetical protein	uni	sce_4564	48.39	endo alpha-1,4 polygalactosaminidase precusor
SCE1572_7913	hypothetical protein	-		0	
SCE1572_7914	Sterol desaturase	bi	sce_6714	86.25	Sterol desaturase
SCE1572_7915	hypothetical protein	-		0	
SCE1572_7916	mannanase, putative	bi	sce_6716	83.57	FIG01085495: hypothetical protein
SCE1572_7917	Xylose ABC transporter, periplasmic xylose-binding protein XylF	bi	sce_6717	88.67	Xylose ABC transporter, periplasmic xylose-binding protein XylF
SCE1572_7918	Multicopper oxidase	bi	sce_6718	87.78	Bilirubin oxidase(EC:1.3.3.5)
SCE1572_7919	Multicopper oxidase	uni	sce_6718	62.34	Bilirubin oxidase(EC:1.3.3.5)
SCE1572_7920	Spore coat protein A	uni	sce_6718	59.4	Bilirubin oxidase(EC:1.3.3.5)
SCE1572_7921	hypothetical protein	-		0	
SCE1572_7922	FIG01089645: hypothetical protein	bi	sce_6719	87.1	FIG01089645: hypothetical protein
SCE1572_7923	Adenylylsulfate kinase (EC 2.7.1.25)	bi	sce_6720	83.05	Adenylylsulfate kinase (EC 2.7.1.25)
SCE1572_7924	Sensor protein of zinc sigma-54-dependent two-component system	bi	sce_6721	88.18	Sensor protein of zinc sigma-54-dependent two-component system
SCE1572_7925	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_6722	77.4	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_7926	putative signal-transduction protein with CBS domains	uni	sce_3693	40.35	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)
SCE1572_7927	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_6723	93.3	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_7928	Branched-chain amino acid aminotransferase (EC 2.6.1.42)	bi	sce_6724	91.69	Branched-chain amino acid aminotransferase (EC 2.6.1.42)
SCE1572_7929	Hypothetical metal-binding enzyme, YcbL homolog	bi	sce_6725	90.95	Hypothetical metal-binding enzyme, YcbL homolog
SCE1572_7930	FIG01088601: hypothetical protein	bi	sce_6726	75.29	FIG01088601: hypothetical protein
SCE1572_7931	serine/threonine protein kinase	bi	sce_6729	89.81	serine/threonine protein kinase
SCE1572_7932	Xaa-Pro dipeptidase (EC 3.4.13.9)	bi	sce_6730	77.81	Xaa-Pro dipeptidase (EC 3.4.13.9)
SCE1572_7933	hypothetical protein	-		0	
SCE1572_7934	FIG01225684: hypothetical protein	uni	sce_4876	37.5	Flagellar hook-length control protein FliK
SCE1572_7935	TOMM biosynthesis cyclodehydratase (protein C) / TOMM biosynthesis docking scaffold (protein D)	bi	sce_6733	80	TOMM biosynthesis cyclodehydratase (protein C) / TOMM biosynthesis docking scaffold (protein D)
SCE1572_7936	TOMM biosynthesis dehydrogenase (protein B)	bi	sce_6734	83.2	TOMM biosynthesis dehydrogenase (protein B)
SCE1572_7937	Molybdopterin biosynthesis protein MoeB	bi	sce_6735	77.36	Molybdopterin biosynthesis protein MoeB
SCE1572_7938	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)	bi	sce_6736	82.3	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_7939	FIG01086993: hypothetical protein	bi	sce_6737	85.96	FIG01086993: hypothetical protein
SCE1572_7940	Flagellar motor rotation protein MotB	bi	sce_6738	89.75	Flagellar motor rotation protein MotB
SCE1572_7941	hypothetical protein	bi	sce_6739	75.12	FIG01089703: hypothetical protein
SCE1572_7942	aminopeptidase N(EC:3.4.11.2)	bi	sce_6742	85.45	aminopeptidase N(EC:3.4.11.2)
SCE1572_7943	hypothetical protein	bi	sce_6743	88.12	hypothetical protein
SCE1572_7944	hypothetical protein	bi	sce_6744	91.03	hypothetical protein
SCE1572_7945	hypothetical protein	-		0	
SCE1572_7946	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_1927	33.37	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_7947	hypothetical protein	-		0	
SCE1572_7948	two component transcriptional regulator, winged helix family	uni	sce_919	30.15	Response regulator receiver:ATP-binding region, ATPase-like:Histidine kinase A, N-terminal
SCE1572_7949	hypothetical abductin-like protein	bi	sce_6745	72.28	FIG01089658: hypothetical protein
SCE1572_7950	Hexokinase (EC 2.7.1.1)	bi	sce_6746	93.68	Hexokinase (EC 2.7.1.1)
SCE1572_7951	FIG01088471: hypothetical protein	bi	sce_6747	92.9	FIG01088471: hypothetical protein
SCE1572_7952	6-phosphogluconate dehydrogenase, decarboxylating (EC 1.1.1.44)	bi	sce_6748	97.06	6-phosphogluconate dehydrogenase, decarboxylating (EC 1.1.1.44)
SCE1572_7953	antifreeze glycoprotein	bi	sce_6750	83.85	FIG01086205: hypothetical protein
SCE1572_7954	hypothetical protein	-		0	
SCE1572_7955	Serine/threonine protein kinase (EC 2.7.11.1)	bi	sce_6751	67.23	Serine/threonine protein kinase (EC 2.7.11.1)
SCE1572_7956	FIG01086789: hypothetical protein	bi	sce_6752	72.07	FIG01086789: hypothetical protein
SCE1572_7957	FIG01086435: hypothetical protein	bi	sce_6753	82.43	FIG01086435: hypothetical protein
SCE1572_7958	FIG01088944: hypothetical protein	bi	sce_4490	53.8	FIG01088944: hypothetical protein
SCE1572_7959	Arsenate reductase (EC 1.20.4.1)	bi	sce_6754	92.37	Arsenate reductase (EC 1.20.4.1)
SCE1572_7960	Gluconolactonase (EC 3.1.1.17)	bi	sce_2029	64.43	Gluconolactonase (EC 3.1.1.17)
SCE1572_7961	hypothetical protein	-		0	
SCE1572_7962	ATP-binding protein of ABC transporter	bi	sce_6756	97.78	ATP-binding protein of ABC transporter
SCE1572_7963	FIG01087941: hypothetical protein	bi	sce_6757	81.13	FIG01087941: hypothetical protein
SCE1572_7964	hypothetical protein	-		0	
SCE1572_7965	hypothetical protein	bi	sce_6764	76	hypothetical protein
SCE1572_7966	hypothetical protein	bi	sce_6765	80.57	hypothetical protein
SCE1572_7967	hypothetical protein	-		0	
SCE1572_7968	hypothetical protein	bi	sce_6766	87.96	hypothetical protein
SCE1572_7969	Twin-arginine translocation protein TatB	bi	sce_6768	75.18	Twin-arginine translocation protein TatB
SCE1572_7970	hypothetical protein	bi	sce_6769	89.76	FIG023677: hypothetical protein
SCE1572_7971	hypothetical protein	bi	sce_6770	75.44	hypothetical protein
SCE1572_7972	RNA polymerase sigma-70 factor, ECF subfamily	bi	sce_6771	79.76	RNA polymerase sigma-70 factor, ECF subfamily
SCE1572_7973	FIG01088275: hypothetical protein	bi	sce_6772	82.74	FIG01088275: hypothetical protein
SCE1572_7974	Putative hemagglutinin-related protein	bi	sce_6773	73.07	Putative hemagglutinin-related protein
SCE1572_7975	FIG01087210: hypothetical protein	bi	sce_7456	85.39	FIG01087210: hypothetical protein
SCE1572_7976	Cellulase(EC:3.2.1.4)	bi	sce_7452	42.78	putative lipoprotein
SCE1572_7977	hypothetical protein	bi	sce_6775	84.38	Glyoxalase family protein
SCE1572_7978	VgrG protein	bi	sce_9166	40.27	VgrG protein
SCE1572_7979	hypothetical protein	uni	sce_3673	33.63	Protein of unknown function DUF11
SCE1572_7980	hypothetical protein	-		0	
SCE1572_7981	hypothetical protein	uni	sce_9170	80.43	hypothetical protein
SCE1572_7982	OmpA/MotB domain protein	uni	sce_9171	57.43	FIG01085999: hypothetical protein
SCE1572_7983	hypothetical protein	uni	sce_5449	35.93	FIG01088294: hypothetical protein
SCE1572_7984	FIG01087276: hypothetical protein	bi	sce_6787	83.15	FIG01087276: hypothetical protein
SCE1572_7985	hypothetical protein	bi	sce_6788	95.57	hypothetical protein
SCE1572_7986	hypothetical protein	bi	sce_6789	78.09	hypothetical protein
SCE1572_7987	RsbR, positive regulator of sigma-B	bi	sce_6790	84.48	RsbR, positive regulator of sigma-B
SCE1572_7988	hypothetical protein	uni	sce_4254	29.86	serine/threonine protein kinase
SCE1572_7989	hypothetical protein	-		0	
SCE1572_7990	hypothetical protein	-		0	
SCE1572_7991	PPO candidate 1	bi	sce_6792	91.19	hypothetical protein
SCE1572_7992	N-acetylglucosamine related transporter, NagX	-		0	
SCE1572_7993	spore peptidoglycan hydrolase	bi	sce_6793	78.66	peptidoglycan hydrolase
SCE1572_7994	hypothetical protein	-		0	
SCE1572_7995	Insecticidal toxin complex protein TcdB1	-		0	
SCE1572_7996	Insecticidal toxin complex protein TcdB1	bi	sce_9566	88.62	Insecticidal toxin complex protein TcdB1
SCE1572_7997	hypothetical protein	uni	sce_6225	95.57	hypothetical protein
SCE1572_7998	transposase for IS481 element	bi	sce_6226	93.32	Integrase, catalytic region
SCE1572_7999	hypothetical protein	uni	sce_6227	84.09	hypothetical protein
SCE1572_8000	Insecticidal toxin complex protein TcdB1	-		0	
SCE1572_8001	Insecticidal toxin complex protein TcdB1	uni	sce_9566	88	Insecticidal toxin complex protein TcdB1
SCE1572_8002	Mobile element protein	-		0	
SCE1572_8003	Insecticidal toxin complex protein TcdB1	uni	sce_9566	76.85	Insecticidal toxin complex protein TcdB1
SCE1572_8004	hypothetical protein	-		0	
SCE1572_8005	hypothetical protein	bi	sce_6795	94.22	hypothetical protein
SCE1572_8006	hypothetical protein	-		0	
SCE1572_8007	Cell division inhibitor	bi	sce_6796	88.74	Cell division inhibitor
SCE1572_8008	Short-chain alcohol dehydrogenase	bi	sce_6797	92.6	Short-chain alcohol dehydrogenase
SCE1572_8009	Fatty acid desaturase (EC 1.14.19.1); Delta-9 fatty acid desaturase (EC 1.14.19.1)	bi	sce_6798	93	Fatty acid desaturase (EC 1.14.19.1); Delta-9 fatty acid desaturase (EC 1.14.19.1)
SCE1572_8010	putative nucleotide sugar-1-phosphate transferase	bi	sce_6800	91.02	hypothetical protein
SCE1572_8011	pyridoxal phosphate-dependent deaminase, putative	bi	sce_6801	93.31	pyridoxal phosphate-dependent deaminase, putative
SCE1572_8012	hypothetical protein	-		0	
SCE1572_8013	hypothetical protein	bi	sce_6802	85.19	hypothetical protein
SCE1572_8014	Histidine ammonia-lyase (EC 4.3.1.3)	bi	sce_6803	90.22	Histidine ammonia-lyase (EC 4.3.1.3)
SCE1572_8015	FIG01088805: hypothetical protein	bi	sce_6804	87.83	FIG01088805: hypothetical protein
SCE1572_8016	hypothetical protein	bi	sce_6805	93.94	hypothetical protein
SCE1572_8018	hypothetical protein	bi	sce_6807	89.31	hypothetical protein
SCE1572_8019	Mobile element protein	uni	sce_1675	96.77	ISLp1
SCE1572_8020	Mobile element protein	bi	sce_6827	87.36	Mobile element protein
SCE1572_8021	Transposase	bi	sce_7413	87.86	Transposase
SCE1572_8022	hypothetical protein	bi	sce_10161	89.29	hypothetical protein
SCE1572_8023	hypothetical protein	-		0	
SCE1572_8024	hypothetical protein	uni	sce_9479	64.49	hypothetical protein
SCE1572_8025	hypothetical protein	-		0	
SCE1572_8026	hypothetical protein	-		0	
SCE1572_8027	hypothetical protein	uni	sce_513	40.28	FIG01087636: hypothetical protein
SCE1572_8028	hypothetical protein	-		0	
SCE1572_8029	hypothetical protein	-		0	
SCE1572_8030	VgrG protein	bi	sce_304	40.94	VgrG protein
SCE1572_8031	hypothetical protein	uni	sce_9167	35.47	FIG01088662: hypothetical protein
SCE1572_8032	hypothetical protein	-		0	
SCE1572_8033	hypothetical protein	-		0	
SCE1572_8034	hypothetical protein	uni	sce_9170	90	hypothetical protein

SCE1572_8035	hypothetical protein	bi	sce_9171	68.6	FIG01085999: hypothetical protein
SCE1572_8036	hypothetical protein	uni	sce_9479	61.25	hypothetical protein
SCE1572_8037	hypothetical protein	-		0	
SCE1572_8038	hypothetical protein	uni	sce_6869	71.65	hypothetical protein
SCE1572_8039	PE-PGRS FAMILY PROTEIN	uni	sce_6870	69.28	PE-PGRS FAMILY PROTEIN
SCE1572_8040	FIG01089478: hypothetical protein	bi	sce_7516	60.89	FIG01089478: hypothetical protein
SCE1572_8041	RNA polymerase sigma factor SigW	bi	sce_6872	66.78	RNA polymerase sigma factor SigW
SCE1572_8042	RNA polymerase sigma factor	bi	sce_6877	68.67	RNA polymerase sigma factor
SCE1572_8043	hypothetical protein	bi	sce_6809	70.45	hypothetical protein
SCE1572_8044	hypothetical protein	-		0	
SCE1572_8045	hypothetical protein	uni	sce_8035	24.67	Chromosome partition protein smc
SCE1572_8046	hypothetical protein	-		0	
SCE1572_8047	hypothetical protein	-		0	
SCE1572_8048	FIG01088450: hypothetical protein	uni	sce_1463	47.62	FIG01085728: hypothetical protein
SCE1572_8049	putative peptidoglycan bound protein (LPXTG motif)	uni	sce_3180	32.69	FIG01089285: hypothetical protein
SCE1572_8050	hypothetical protein	-		0	
SCE1572_8051	hypothetical protein	-		0	
SCE1572_8052	hypothetical protein	-		0	
SCE1572_8053	hypothetical protein	-		0	
SCE1572_8054	hypothetical protein	-		0	
SCE1572_8055	hypothetical protein	-		0	
SCE1572_8056	hypothetical protein	-		0	
SCE1572_8057	hypothetical protein	-		0	
SCE1572_8058	hypothetical protein	bi	sce_7416	48.84	hypothetical protein
SCE1572_8059	hypothetical protein	-		0	
SCE1572_8060	hypothetical protein	-		0	
SCE1572_8061	hypothetical protein	-		0	
SCE1572_8062	hypothetical protein	-		0	
SCE1572_8063	hypothetical protein	-		0	
SCE1572_8064	RNA polymerase sigma factor RpoE	uni	sce_6165	59.72	RNA polymerase sigma factor RpoE
SCE1572_8065	HK97 major tail subunit	-		0	
SCE1572_8066	hypothetical protein	uni	sce_616	38.19	NHL repeat protein
SCE1572_8067	hypothetical protein	-		0	
SCE1572_8068	Mobile element protein	uni	sce_7404	80.75	Mobile element protein
SCE1572_8069	Transposase	uni	sce_10160	66.67	Transposase
SCE1572_8070	hypothetical protein	uni	sce_10161	89.29	hypothetical protein
SCE1572_8071	putative transposase	-		0	
SCE1572_8072	Mobile element protein	uni	sce_9803	35.19	Mobile element protein
SCE1572_8073	Mobile element protein	bi	sce_9804	33.59	Mobile element protein
SCE1572_8074	Mobile element protein	bi	sce_1036	85	hypothetical protein
SCE1572_8075	bll2159; putative transposase	uni	sce_6228	71.64	Mobile element protein
SCE1572_8076	Transposase	uni	sce_10160	87.93	Transposase
SCE1572_8077	hypothetical protein	uni	sce_10161	86.61	hypothetical protein
SCE1572_8078	hypothetical protein	-		0	
SCE1572_8079	hypothetical protein	-		0	
SCE1572_8080	RNA polymerase sigma factor RpoE	uni	sce_6165	59.72	RNA polymerase sigma factor RpoE
SCE1572_8081	hypothetical protein	-		0	
SCE1572_8082	hypothetical protein	bi	sce_6847	62	hypothetical protein
SCE1572_8083	FIG01087954: hypothetical protein	uni	sce_6849	80.85	FIG01087954: hypothetical protein
SCE1572_8084	hypothetical protein	-		0	
SCE1572_8085	hypothetical protein	-		0	
SCE1572_8086	hypothetical protein	-		0	
SCE1572_8087	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P1 protein) (EC 1.4.4.2)	uni	sce_2240	43.22	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P1 protein) (EC 1.4.4.2)
SCE1572_8088	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P2 protein) (EC 1.4.4.2)	uni	sce_10237	45.57	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P2 protein) (EC 1.4.4.2)
SCE1572_8089	[NiFe] hydrogenase metallocenter assembly protein HypE	bi	sce_5122	93.77	[NiFe] hydrogenase metallocenter assembly protein HypE
SCE1572_8090	[NiFe] hydrogenase metallocenter assembly protein HypD	bi	sce_5121	92.41	[NiFe] hydrogenase metallocenter assembly protein HypD
SCE1572_8091	[NiFe] hydrogenase nickel incorporation protein HypA	bi	sce_5118	94.69	[NiFe] hydrogenase nickel incorporation protein HypA
SCE1572_8092	Hydrogenase maturation protease (EC 3.4.24.-)	bi	sce_5117	80.84	hypothetical protein
SCE1572_8093	hydrogenase/sulfur reductase, alpha subunit	bi	sce_5116	91.28	hydrogenase/sulfur reductase, alpha subunit
SCE1572_8094	hydrogenase/sulfur reductase, delta subunit	bi	sce_5115	98.06	hydrogenase/sulfur reductase, delta subunit
SCE1572_8095	2-polyprenylphenol hydroxylase and related flavodoxin oxidoreductases	bi	sce_5114	93.56	2-polyprenylphenol hydroxylase and related flavodoxin oxidoreductases
SCE1572_8096	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	bi	sce_5113	85.44	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases
SCE1572_8097	Ferredoxin	bi	sce_5112	84.65	Ferredoxin
SCE1572_8098	hypothetical protein	bi	sce_9043	84.09	hypothetical protein
SCE1572_8099	Ferrous iron transport protein B	bi	sce_9044	88.86	Ferrous iron transport protein B
SCE1572_8100	Phosphoenolpyruvate synthase (EC 2.7.9.2)	bi	sce_5110	91.37	Phosphoenolpyruvate synthase (EC 2.7.9.2)
SCE1572_8101	Endoglucanase Y (EC 3.2.1.4)	uni	sce_1998	46.34	FIG01086574: hypothetical protein
SCE1572_8102	hypothetical protein	uni	sce_3292	37.57	Cellulose-binding domain protein
SCE1572_8103	Cellulose-binding domain protein	uni	sce_4499	37.63	Cellulose-binding domain protein
SCE1572_8104	Tat (twin-arginine translocation) pathway signal sequence domain protein	uni	sce_3293	30.62	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_8105	hypothetical protein	-		0	
SCE1572_8106	5-aminopentanamidase (EC 3.5.1.30)	uni	sce_4305	29.71	5-aminopentanamidase (EC 3.5.1.30)
SCE1572_8107	D-proline reductase, 26 kDa subunit (EC 1.21.4.1) @ selenocysteine-containing	-		0	
SCE1572_8108	D-proline reductase, 45 kDa subunit (EC 1.21.4.1) / D-proline reductase, 23 kDa subunit (EC 1.21.4.1)	-		0	
SCE1572_8109	proline racemase	-		0	
SCE1572_8110	hypothetical protein	-		0	
SCE1572_8111	High-affinity branched-chain amino acid transport system permease protein LivH (TC 3.A.1.4.1)	uni	sce_9290	38.94	High-affinity branched-chain amino acid transport system permease protein LivH (TC 3.A.1.4.1)
SCE1572_8112	Branched-chain amino acid transport system permease protein LivM (TC 3.A.1.4.1)	uni	sce_9613	34.48	Branched-chain amino acid transport system permease protein LivM (TC 3.A.1.4.1)
SCE1572_8113	Branched-chain amino acid transport ATP-binding protein LivG (TC 3.A.1.4.1)	uni	sce_9614	45.67	Branched-chain amino acid transport ATP-binding protein LivG (TC 3.A.1.4.1)
SCE1572_8114	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.A.1.4.1)	uni	sce_9615	44.92	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.A.1.4.1)
SCE1572_8115	Arginine decarboxylase (EC 4.1.1.19)	bi	sce_5109	95.43	Arginine decarboxylase (EC 4.1.1.19)
SCE1572_8116	hypothetical protein	-		0	
SCE1572_8117	hypothetical protein	-		0	
SCE1572_8118	FIG01087249: hypothetical protein	uni	sce_2338	92.86	Transposase
SCE1572_8119	FIG01087249: hypothetical protein	uni	sce_2337	87.95	FIG01087249: hypothetical protein
SCE1572_8120	hypothetical protein	-		0	
SCE1572_8121	Glutamate decarboxylase	-		0	
SCE1572_8122	hypothetical protein	uni	sce_4578	32.41	Acetyl-CoA synthetase (ADP-forming) alpha and beta chains, putative
SCE1572_8123	hypothetical protein	-		0	
SCE1572_8124	Mannose-6-phosphate isomerase	-		0	
SCE1572_8125	hypothetical protein	-		0	
SCE1572_8126	cation-transporting ATPase, E1-E2 family	bi	sce_5107	94.25	cation-transporting ATPase, E1-E2 family
SCE1572_8127	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_9045	78.91	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_8128	hypothetical protein	-		0	
SCE1572_8129	hypothetical protein	-		0	
SCE1572_8130	Dihydrolipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex (EC 2.3.1.168)	uni	sce_1746	24.79	Dihydrolipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex (EC 2.3.1.168)
SCE1572_8131	hypothetical protein	-		0	
SCE1572_8132	dienelactone hydrolase	uni	sce_10090	62.28	Hydrolases of the alpha/beta superfamily
SCE1572_8133	heat shock protein, HSP20 family	uni	sce_8620	44.57	Molecular chaperone (small heat shock protein)
SCE1572_8134	Heat shock protein 60 family chaperone GroEL	uni	sce_3121	55.33	Heat shock protein 60 family chaperone GroEL
SCE1572_8135	DNA polymerase X	uni	sce_9813	38.09	phosphoesterase, PHP-like
SCE1572_8136	hypothetical protein	-		0	
SCE1572_8137	Glucoamylase GLA1 precursor (EC 3.2.1.3) (Glucan 1,4-alpha-glucosidase) (1,4-alpha-D-glucan glucohydrolase)	bi	sce_861	30	putative glucoamylase protein(EC:3.2.1.3)
SCE1572_8138	hypothetical protein	uni	sce_3694	36.89	Universal stress protein family
SCE1572_8139	COG1801: Uncharacterized conserved protein	bi	sce_6416	42.86	protein of unknown function DUF72
SCE1572_8140	RNA polymerase sigma factor RpoD	uni	sce_2933	46.77	RNA polymerase sigma factor SigB
SCE1572_8141	transport-associated	-		0	
SCE1572_8142	protein of unknown function DUF294, nucleotidyltransferase putative	uni	sce_8964	38.66	CBS domain protein
SCE1572_8143	CBS domain protein	uni	sce_8964	34.55	CBS domain protein
SCE1572_8144	cold shock domain family protein	uni	sce_6268	39.56	cold shock domain family protein
SCE1572_8145	Transcription antitermination protein NusG	uni	sce_460	55.43	Transcription antitermination protein NusG
SCE1572_8146	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)	bi	sce_3042	81.15	Inosine-5'-monophosphate dehydrogenase (EC 1.1.1.205)
SCE1572_8147	Magnesium and cobalt efflux protein CorC	uni	sce_4801	28.57	Magnesium and cobalt efflux protein CorC
SCE1572_8148	Capsule biosynthesis protein capA	uni	sce_10411	32.05	FIG01089659: hypothetical protein
SCE1572_8149	Ribonucleotide reductase of class II (coenzyme B12-dependent) (EC 1.17.4.1)	uni	sce_4336	30.72	Ribonucleotide reductase of class Ia (aerobic), alpha subunit (EC 1.17.4.1)
SCE1572_8150	hypothetical protein	uni	sce_10090	64.73	Hydrolases of the alpha/beta superfamily
SCE1572_8151	CBS domain protein	uni	sce_8964	31.3	CBS domain protein
SCE1572_8152	hypothetical protein	uni	sce_2973	70.18	General stress protein
SCE1572_8153	Heat shock protein Hsp20	uni	sce_5552	46.97	Molecular chaperone (small heat shock protein)-like
SCE1572_8154	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1)	uni	sce_7763	42.72	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1)
SCE1572_8155	Acetoin dehydrogenase E1 component alpha-subunit (EC 1.2.4.-)	uni	sce_4255	46.3	Pyruvate dehydrogenase E1 component alpha subunit (EC 1.2.4.1)
SCE1572_8156	magnesium-translocating P-type ATPase	uni	sce_6126	32.31	cation-transporting ATPase, E1-E2 family
SCE1572_8157	hypothetical protein	-		0	
SCE1572_8158	hypothetical protein	-		0	
SCE1572_8159	hypothetical protein	-		0	
SCE1572_8160	Acetoin dehydrogenase E1 component beta-subunit (EC 1.2.4.-)	uni	sce_4256	49.84	Pyruvate dehydrogenase E1 component beta subunit (EC 1.2.4.1)
SCE1572_8161	Dihydrolipoamide acetyltransferase component (E2) of acetoin dehydrogenase complex (EC 2.3.1.-)	uni	sce_4257	36.51	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_8162	similar to acyl carrier protein	-		0	
SCE1572_8163	Acetyl-coenzyme A synthetase (EC 6.2.1.1)	uni	sce_8866	40.24	Acetyl-coenzyme A synthetase (EC 6.2.1.1)
SCE1572_8164	hypothetical protein	-		0	
SCE1572_8165	hypothetical protein	bi	sce_6970	82.98	hypothetical protein
SCE1572_8166	hypothetical protein	bi	sce_8358	86.84	COGs COG0840
SCE1572_8167	hypothetical protein	-		0	
SCE1572_8168	hydroxylase	-		0	
SCE1572_8169	membrane protein-like protein	-		0	
SCE1572_8170	Phosphate ABC transporter, periplasmic phosphate-binding protein PstS (TC 3.A.1.7.1)	uni	sce_3309	23.2	Phosphate ABC transporter, periplasmic phosphate-binding protein PstS (TC 3.A.1.7.1)
SCE1572_8171	Phosphate transport system permease protein PstC (TC 3.A.1.7.1)	uni	sce_3308	37.71	Phosphate transport system permease protein PstC (TC 3.A.1.7.1)
SCE1572_8172	Phosphate transport ATP-binding protein PstB (TC 3.A.1.7.1)	uni	sce_3306	48.93	Phosphate transport ATP-binding protein PstB (TC 3.A.1.7.1)
SCE1572_8173	Phosphate transport ATP-binding protein PstB (TC 3.A.1.7.1)	uni	sce_3306	52.17	Phosphate transport ATP-binding protein PstB (TC 3.A.1.7.1)
SCE1572_8174	Phosphate transport system regulatory protein PhoU	uni	sce_3305	33.08	Phosphate transport system regulatory protein PhoU
SCE1572_8175	Amino acid permease	bi	sce_5106	93.15	Amino acid permease
SCE1572_8176	Amino acid permease	uni	sce_5106	92.61	Amino acid permease
SCE1572_8177	putative oxidoreductase	uni	sce_5114	33.33	2-polyprenylphenol hydroxylase and related flavodoxin oxidoreductases
SCE1572_8178	hypothetical protein	-		0	
SCE1572_8179	hypothetical protein	-		0	
SCE1572_8180	Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.	uni	sce_9067	39.85	Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.6.3.4)
SCE1572_8181	hypothetical protein	-		0	
SCE1572_8182	hypothetical protein	uni	sce_1205	40.24	Universal stress protein family
SCE1572_8183	hypothetical protein	-		0	
SCE1572_8184	FIG01087954: hypothetical protein	bi	sce_6849	81.82	FIG01087954: hypothetical protein
SCE1572_8185	hypothetical protein	-		0	
SCE1572_8186	hypothetical protein	-		0	
SCE1572_8187	hypothetical protein	-		0	
SCE1572_8188	ADL187Wp	uni	sce_6679	75.51	temperature sensitive supressor-like protein
SCE1572_8189	hypothetical protein	uni	sce_7509	29.26	Oligopeptide ABC transporter, periplasmic oligopeptide-binding protein OppA (TC 3.A.1.5.1)
SCE1572_8190	NB-ARC domain protein	uni	sce_4070	44.51	DNA gyrase subunit A (EC 5.99.1.3)
SCE1572_8191	hypothetical protein	uni	sce_6052	30.21	hypothetical protein
SCE1572_8192	hypothetical protein	uni	sce_3606	32.14	Protein kinase
SCE1572_8193	response regulator receiver	uni	sce_2361	28.73	FIG100068: Hypothetical protein
SCE1572_8194	DNA double-strand break repair protein Mre11	uni	sce_8023	24.87	DNA double-strand break repair protein Mre11
SCE1572_8195	transcriptional regulator, LuxR family protein	-		0	
SCE1572_8196	hypothetical protein	-		0	
SCE1572_8197	hypothetical protein	-		0	
SCE1572_8198	hypothetical protein	-		0	

SCE1572_8199	sigma54 specific transcriptional regulator with PAS sensor, Fis family	uni	sce_2992	49.51	sigma-54 dependent DNA-binding response regulator
SCE1572_8200	hypothetical protein	-		0	
SCE1572_8201	hypothetical protein	-		0	
SCE1572_8202	hypothetical protein	-		0	
SCE1572_8203	hypothetical protein	bi	sce_6891	93.44	hypothetical protein
SCE1572_8204	hypothetical protein	-		0	
SCE1572_8205	Serine/arginine repetitive matrix protein 2	bi	sce_6848	82.54	Flagellar hook-length control protein FliK
SCE1572_8206	hypothetical protein	bi	sce_8351	82.98	hypothetical protein
SCE1572_8207	FIG01085999: hypothetical protein	bi	sce_8350	55.09	FIG01085999: hypothetical protein
SCE1572_8208	hypothetical protein	bi	sce_8348	51.95	hypothetical protein
SCE1572_8209	FIG01085109: hypothetical protein	bi	sce_8347	74.88	Rhs family protein
SCE1572_8210	FIG01087149: hypothetical protein	bi	sce_8346	70.21	FIG01087149: hypothetical protein
SCE1572_8211	VgrG protein	bi	sce_8345	77.83	VgrG protein
SCE1572_8212	FIG01087791: hypothetical protein	bi	sce_8344	80.29	FIG01087791: hypothetical protein
SCE1572_8213	VgrG protein	bi	sce_8343	74.14	VgrG protein
SCE1572_8214	VgrG protein	bi	sce_8342	76.44	VgrG protein
SCE1572_8215	hypothetical protein	-		0	
SCE1572_8216	hypothetical protein	-		0	
SCE1572_8217	hypothetical protein	-		0	
SCE1572_8218	two-component sensor histidine kinase	uni	sce_229	52.96	FOG: PAS/PAC domain
SCE1572_8219	hypothetical protein	-		0	
SCE1572_8220	Uncharacterized protein conserved in bacteria	bi	sce_4907	46.54	hypothetical protein
SCE1572_8221	unknown protein	bi	sce_4905	45.07	FIG01086791: hypothetical protein
SCE1572_8222	N-succinyl-L,L-diaminopimelate desuccinylase (EC 3.5.1.18)	bi	sce_7070	85.96	N-succinyl-L,L-diaminopimelate desuccinylase (EC 3.5.1.18)
SCE1572_8223	hypothetical protein	-		0	
SCE1572_8224	hypothetical protein	-		0	
SCE1572_8225	FIG01087506: hypothetical protein	bi	sce_6785	62.16	FIG01087506: hypothetical protein
SCE1572_8226	hypothetical protein	bi	sce_6895	90.56	hypothetical protein
SCE1572_8227	hypothetical protein	bi	sce_6896	83.79	hypothetical protein
SCE1572_8228	Soluble lytic murein transglycosylase precursor (EC 3.2.1.-)	bi	sce_6897	87.64	Soluble lytic murein transglycosylase precursor (EC 3.2.1.-)
SCE1572_8229	hypothetical protein	bi	sce_6899	89.3	hypothetical protein
SCE1572_8230	hypothetical protein	bi	sce_6900	88.83	hypothetical protein
SCE1572_8231	hypothetical protein	bi	sce_6901	93.36	hypothetical protein
SCE1572_8232	Acetylspermidine deacetylase (EC 3.5.1.48); Deacetylases, including yeast histone deacetylase and acetoin utilization protein	bi	sce_6902	88.29	Acetylspermidine deacetylase (EC 3.5.1.48); Deacetylases, including yeast histone deacetylase and acetoin utilization protein
SCE1572_8233	FIG01085396: hypothetical protein	bi	sce_6905	81.3	FIG01085396: hypothetical protein
SCE1572_8234	hypothetical protein	-		0	
SCE1572_8235	hypothetical protein	bi	sce_6906	83.87	hypothetical protein
SCE1572_8236	Nitrate/nitrite response regulator protein	bi	sce_6907	88.02	Nitrate/nitrite response regulator protein
SCE1572_8237	dedA protein	bi	sce_6908	83.33	Uncharacterized protein MJ0374
SCE1572_8238	FIG01087842: hypothetical protein	bi	sce_6909	95.02	FIG01087842: hypothetical protein
SCE1572_8239	hypothetical protein	bi	sce_6910	82.55	hypothetical protein
SCE1572_8240	protein kinase	bi	sce_6911	82.03	serine/threonine protein kinase
SCE1572_8241	Cystathionine gamma-lyase (EC 4.4.1.1)	bi	sce_6912	93.38	Cystathionine gamma-lyase (EC 4.4.1.1)
SCE1572_8242	hypothetical protein	bi	sce_6913	53.44	hypothetical protein
SCE1572_8243	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_6914	97.28	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_8244	Ribosome recycling factor	bi	sce_6915	93.51	Ribosome recycling factor
SCE1572_8245	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_6916	93.71	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_8246	Alkyl hydroperoxide reductase subunit C-like protein	bi	sce_6917	81.17	Alkyl hydroperoxide reductase subunit C-like protein
SCE1572_8247	DNA-3-methyladenine glycosylase II (EC 3.2.2.21)	bi	sce_6918	90.45	DNA-3-methyladenine glycosylase II (EC 3.2.2.21)
SCE1572_8248	FIG00578842: hypothetical protein	bi	sce_6919	59.34	putative lipoprotein
SCE1572_8249	hypothetical protein	bi	sce_6920	85.33	hypothetical protein
SCE1572_8250	Peptide chain release factor 3	bi	sce_6921	97.55	Peptide chain release factor 3
SCE1572_8251	hypothetical protein	bi	sce_6922	78.32	hypothetical protein
SCE1572_8252	Halogenase	bi	sce_6923	90.66	Halogenase
SCE1572_8253	hypothetical protein	bi	sce_6924	89.44	hypothetical protein
SCE1572_8254	probable transcriptional regulator	bi	sce_6925	79.74	transcriptional regulator, LysR family
SCE1572_8255	Type IV pilus biogenesis protein PilQ	bi	sce_6926	90.91	Type IV pilus biogenesis protein PilQ
SCE1572_8256	hypothetical protein	bi	sce_6927	84.86	hypothetical protein
SCE1572_8257	Type IV pilus biogenesis protein PilO	bi	sce_6928	93.87	Type IV pilus biogenesis protein PilO
SCE1572_8258	Type IV pilus biogenesis protein PilN	bi	sce_6929	97.2	Type IV pilus biogenesis protein PilN
SCE1572_8259	Type IV pilus biogenesis protein PilM	bi	sce_6930	98.56	Type IV pilus biogenesis protein PilM
SCE1572_8260	FIG01086474: hypothetical protein	bi	sce_6931	81.63	FIG01086474: hypothetical protein
SCE1572_8261	RNA polymerase sigma factor for flagellar operon	bi	sce_6932	77.12	RNA polymerase sigma factor for flagellar operon
SCE1572_8262	hypothetical protein	bi	sce_6933	82.09	hypothetical protein
SCE1572_8263	3-aminobutyryl-CoA ammonia-lyase (EC 4.3.1.14) / 3-keto-5-aminohexanoate cleavage enzyme	bi	sce_6934	94.13	3-aminobutyryl-CoA ammonia-lyase (EC 4.3.1.14) / 3-keto-5-aminohexanoate cleavage enzyme
SCE1572_8264	Undecaprenyl diphosphate synthase (EC 2.5.1.31)	bi	sce_6935	89.63	Undecaprenyl diphosphate synthase (EC 2.5.1.31)
SCE1572_8265	Phosphatidate cytidylyltransferase (EC 2.7.7.41)	bi	sce_6936	93.75	Phosphatidate cytidylyltransferase (EC 2.7.7.41)
SCE1572_8266	NAD-specific glutamate dehydrogenase (EC 1.4.1.2); NADP-specific glutamate dehydrogenase (EC 1.4.1.4)	bi	sce_6937	95.92	NAD-specific glutamate dehydrogenase (EC 1.4.1.2); NADP-specific glutamate dehydrogenase (EC 1.4.1.4)
SCE1572_8267	Tryptophanyl-tRNA synthetase (EC 6.1.1.2)	uni	sce_8274	31.34	Tryptophanyl-tRNA synthetase (EC 6.1.1.2)
SCE1572_8268	hypothetical protein	bi	sce_6317	72.5	Transcriptional regulator, TetR family
SCE1572_8269	Lipid A export ATP-binding/permease protein MsbA	bi	sce_6318	94.84	Lipid A export ATP-binding/permease protein MsbA
SCE1572_8270	Lipid A export ATP-binding/permease protein MsbA	bi	sce_6319	93.95	Lipid A export ATP-binding/permease protein MsbA
SCE1572_8271	Folate-dependent protein for Fe/S cluster synthesis/repair in oxidative stress	bi	sce_6940	86.79	Folate-dependent protein for Fe/S cluster synthesis/repair in oxidative stress
SCE1572_8272	hypothetical protein	bi	sce_6941	91.87	hypothetical protein
SCE1572_8273	S-adenosylmethionine decarboxylase	bi	sce_6942	97.18	S-adenosylmethionine decarboxylase
SCE1572_8274	conserved hypothetical protein	bi	sce_7920	36.98	FIG01086882: hypothetical protein
SCE1572_8275	Vitamin K epoxide reductase	bi	sce_6944	91.07	Vitamin K epoxide reductase
SCE1572_8276	hypothetical protein	bi	sce_6945	94.83	hypothetical protein
SCE1572_8277	Thioredoxin	bi	sce_6946	87.39	Thioredoxin
SCE1572_8278	FIG01088185: hypothetical protein	bi	sce_6947	88.32	FIG01088185: hypothetical protein
SCE1572_8279	Methylated-DNA--protein-cysteine methyltransferase (EC 2.1.1.63)	bi	sce_6948	89.71	Methylated-DNA--protein-cysteine methyltransferase (EC 2.1.1.63)
SCE1572_8280	DNA-3-methyladenine glycosylase II (EC 3.2.2.21)	bi	sce_6949	92.02	DNA-3-methyladenine glycosylase II (EC 3.2.2.21)
SCE1572_8281	Leucine dehydrogenase (EC 1.4.1.9)	bi	sce_6950	89.5	Leucine dehydrogenase (EC 1.4.1.9)
SCE1572_8282	Carbon starvation protein A	bi	sce_6951	93.4	Carbon starvation protein A
SCE1572_8283	Bifunctional protein: zinc-containing alcohol dehydrogenase; quinone oxidoreductase (NADPH:quinone reductase) (EC 1.1.1.	bi	sce_6316	41.21	Bifunctional protein: zinc-containing alcohol dehydrogenase; quinone oxidoreductase (NADPH:quinone reductase) (EC 1.1.1.-); Sin
SCE1572_8284	hypothetical protein	bi	sce_611	59.62	COG1937: Uncharacterized protein conserved in bacteria
SCE1572_8285	hypothetical protein	bi	sce_613	78.84	hypothetical protein
SCE1572_8286	Protein ThiJ	bi	sce_6953	92.9	Protein ThiJ
SCE1572_8287	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_6954	87.16	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_8288	putative signal transduction protein with Nacht domain	bi	sce_6964	90.31	serine/threonine protein kinase
SCE1572_8289	hypothetical protein	bi	sce_6053	58.88	FIG01086409: hypothetical protein
SCE1572_8290	Rhs-family protein	uni	sce_8817	39.24	Rhs family carbohydrate-binding protein
SCE1572_8291	hypothetical protein	bi	sce_9526	28.88	hypothetical protein
SCE1572_8292	major facilitator superfamily MFS_1	uni	sce_4482	45.15	putative integral membrane transport protein
SCE1572_8293	conserved hypothetical protein	uni	sce_3882	38.75	FIG01085153: hypothetical protein
SCE1572_8294	FIG01085721: hypothetical protein	bi	sce_6979	90.32	FIG01085721: hypothetical protein
SCE1572_8295	glutamine amidotransferase class-I	bi	sce_6980	86.36	GMP synthase (EC 6.3.5.2)
SCE1572_8296	transcriptional regulator (TetR/AcrR family)	bi	sce_6981	85.53	transcriptional regulator (TetR/AcrR family)
SCE1572_8297	FIG01087738: hypothetical protein	bi	sce_6982	96.51	FIG01087738: hypothetical protein
SCE1572_8298	Activator of (R)-2-hydroxyglutaryl-CoA dehydratase	bi	sce_6983	93.15	Activator of (R)-2-hydroxyglutaryl-CoA dehydratase
SCE1572_8299	serine esterase, putative	uni	sce_5625	29.14	LpqP protein
SCE1572_8300	hypothetical protein	-		0	
SCE1572_8301	Aspartate transaminase (EC 2.6.1.1)	bi	sce_6985	90.93	Aspartate transaminase (EC 2.6.1.1)
SCE1572_8302	hypothetical protein	bi	sce_6986	83.93	hypothetical protein
SCE1572_8303	hypothetical protein	bi	sce_6987	88.1	hypothetical protein
SCE1572_8304	Thiol:disulfide interchange protein, thioredoxin family protein precursor	bi	sce_6988	83.6	hypothetical protein
SCE1572_8305	hypothetical protein	bi	sce_6989	92.95	hypothetical protein
SCE1572_8306	hypothetical protein	bi	sce_6990	85.51	hypothetical protein
SCE1572_8307	photoactive yellow protein	bi	sce_1129	50.56	Photoactive yellow protein (PYP)
SCE1572_8308	hypothetical protein	-		0	
SCE1572_8309	Flagellar hook-length control protein FliK	bi	sce_6991	85.38	Flagellar hook-length control protein FliK
SCE1572_8310	Aspartokinase (EC 2.7.2.4)	bi	sce_6992	89.7	Aspartokinase (EC 2.7.2.4)
SCE1572_8311	hypothetical protein	bi	sce_6993	85.53	hypothetical protein
SCE1572_8312	ABC-type transport system involved in resistance to organic solvents, auxiliary component	bi	sce_6994	89.05	Toluene tolerance
SCE1572_8313	Two-component sensor PilS	bi	sce_6995	87.95	Two-component sensor PilS
SCE1572_8314	Type IV fimbrial assembly protein PilC	bi	sce_6996	94.81	Type IV fimbrial assembly protein PilC
SCE1572_8315	hypothetical protein	bi	sce_6997	83.02	hypothetical protein
SCE1572_8316	hypothetical protein	bi	sce_6998	87.34	Predicted ATPase
SCE1572_8317	Protein-L-isoaspartate O-methyltransferase (EC 2.1.1.77)	bi	sce_6999	85.57	Protein-L-isoaspartate O-methyltransferase (EC 2.1.1.77)
SCE1572_8318	Beta-lactamase class C and other penicillin binding proteins	bi	sce_7000	88.68	Beta-lactamase class C and other penicillin binding proteins
SCE1572_8319	Ubiquinone biosynthesis monooxygenase UbiB	bi	sce_7002	93.17	Ubiquinone biosynthesis monooxygenase UbiB
SCE1572_8320	hypothetical protein	bi	sce_7003	88.37	hypothetical protein
SCE1572_8321	serine/threonine-protein kinase Pkn3(EC:2.7.11.1)	bi	sce_7004	88.09	serine/threonine protein kinase with TPR repeats
SCE1572_8322	conserved hypothetical protein	bi	sce_7006	90.48	DUF124 domain-containing protein
SCE1572_8323	conserved hypothetical protein	bi	sce_7007	92.79	conserved hypothetical protein
SCE1572_8324	hypothetical protein	bi	sce_7008	95.61	hypothetical protein
SCE1572_8325	FHA domain containing protein	bi	sce_7009	83.73	FHA domain/tetratricopeptide repeat protein
SCE1572_8326	putative transmembrane protein	bi	sce_7010	92.47	hypothetical protein
SCE1572_8327	ATP/ADP translocase-like	bi	sce_7011	89.24	Major facilitator superfamily MFS_1
SCE1572_8328	hypothetical protein	-		0	
SCE1572_8329	Chromosome undetermined SCAF14611, whole genome shotgun sequence	bi	sce_7012	79.61	Chromosome undetermined SCAF14611, whole genome shotgun sequence
SCE1572_8330	hypothetical protein	bi	sce_7013	89.34	hypothetical protein
SCE1572_8331	Lipase precursor (EC 3.1.1.3)	bi	sce_7014	84.33	Lipase precursor (EC 3.1.1.3)
SCE1572_8332	hypothetical protein	bi	sce_7015	82.88	hypothetical protein
SCE1572_8333	FIG001341: Probable Fe(2)-trafficking protein YggX	bi	sce_7016	90.62	FIG001341: Probable Fe(2)-trafficking protein YggX
SCE1572_8334	hypothetical protein	-		0	
SCE1572_8335	hypothetical protein	-		0	
SCE1572_8336	Mobile element protein	uni	sce_1675	96.77	ISLp1
SCE1572_8337	VgrG protein	uni	sce_304	40.82	VgrG protein
SCE1572_8338	hypothetical protein	bi	sce_305	37.42	FIG01088662: hypothetical protein
SCE1572_8339	hypothetical protein	-		0	
SCE1572_8340	hypothetical protein	-		0	
SCE1572_8341	predicted protein	bi	sce_9170	90.29	hypothetical protein
SCE1572_8342	OmpA/MotB	uni	sce_9171	68.39	FIG01085999: hypothetical protein
SCE1572_8343	hypothetical protein	bi	sce_3174	71.6	hypothetical protein
SCE1572_8344	hypothetical protein	uni	sce_163	59.63	FIG01087636: hypothetical protein
SCE1572_8345	hypothetical protein	-		0	
SCE1572_8346	PE-PGRS family protein	bi	sce_9483	72.84	FIG01086339: hypothetical protein
SCE1572_8347	FIG01089478: hypothetical protein	uni	sce_9482	76.69	hypothetical protein
SCE1572_8348	RNA polymerase sigma-H factor	uni	sce_9481	78.06	RNA polymerase sigma-H factor
SCE1572_8349	hypothetical protein	bi	sce_9480	72.97	hypothetical protein
SCE1572_8350	hypothetical protein	-		0	
SCE1572_8351	hypothetical protein	-		0	
SCE1572_8352	hypothetical protein	uni	sce_9479	68.22	hypothetical protein
SCE1572_8353	TPR domain protein	-		0	
SCE1572_8354	integron integrase	uni	sce_8403	70.21	Integron integrase IntIPac
SCE1572_8355	transposase	uni	sce_6226	89.76	Integrase, catalytic region
SCE1572_8356	hypothetical protein	uni	sce_6227	86.05	hypothetical protein
SCE1572_8357	hypothetical protein	-		0	
SCE1572_8358	transposase IS66 family	uni	sce_7404	37.85	Mobile element protein
SCE1572_8359	hypothetical protein	-		0	
SCE1572_8360	hypothetical protein	uni	sce_10160	37.5	Transposase
SCE1572_8361	hypothetical protein	-		0	
SCE1572_8362	hypothetical protein	uni	sce_10265	87.8	hypothetical protein

SCE1572_8363	FIG01086053: hypothetical protein	uni	sce_10019	81.29	FIG01086053: hypothetical protein
SCE1572_8364	conserved hypothetical protein-putative thiol-disulfide isomerase or thioredoxin	uni	sce_5870	53.81	hypothetical protein
SCE1572_8365	Transcriptional regulator, TetR family	uni	sce_1930	41.33	Transcriptional regulator, TetR family
SCE1572_8366	acetyltransferase (GNAT) family	-		0	
SCE1572_8367	Hydroxymethylpyrimidine ABC transporter, substrate-binding component	bi	sce_2167	66.36	Hydroxymethylpyrimidine ABC transporter, substrate-binding component
SCE1572_8368	transcriptional regulator, AraC family	bi	sce_2165	69.44	Transcriptional regulator, AraC family
SCE1572_8369	FIG00481795: hypothetical protein	bi	sce_7077	87.61	FIG00481795: hypothetical protein
SCE1572_8370	FIG001614: Membrane protein	bi	sce_7078	88.05	FIG001614: Membrane protein
SCE1572_8371	FIG015373: Membrane protein	bi	sce_7079	86.84	FIG015373: Membrane protein
SCE1572_8372	Histone acetyltransferase HPA2 and related acetyltransferases	bi	sce_7080	88.28	Histone acetyltransferase HPA2 and related acetyltransferases
SCE1572_8373	Isoquinoline 1-oxidoreductase beta subunit (EC 1.3.99.16)	bi	sce_7082	90.19	Isoquinoline 1-oxidoreductase beta subunit (EC 1.3.99.16)
SCE1572_8374	Isoquinoline 1-oxidoreductase alpha subunit (EC 1.3.99.16)	bi	sce_7086	96.05	Isoquinoline 1-oxidoreductase alpha subunit (EC 1.3.99.16)
SCE1572_8375	Putative Isoquinoline 1-oxidoreductase subunit, Mll3835 protein	bi	sce_7087	91.2	Putative Isoquinoline 1-oxidoreductase subunit, Mll3835 protein
SCE1572_8376	hypothetical protein	-		0	
SCE1572_8377	hypothetical protein	-		0	
SCE1572_8378	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	bi	sce_7088	73.29	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_8379	hypothetical protein	bi	sce_7089	77.17	FIG01086691: hypothetical protein
SCE1572_8380	FIG01087735: hypothetical protein	bi	sce_7090	60.71	FIG01087735: hypothetical protein
SCE1572_8381	ATP-dependent helicase hrpA	bi	sce_7144	92.6	ATP-dependent helicase hrpA
SCE1572_8382	FIG01087763: hypothetical protein	uni	sce_5241	34.12	FIG01086664: hypothetical protein
SCE1572_8383	serine/threonine protein kinase	uni	sce_8564	31.08	serine/threonine protein kinase
SCE1572_8384	gamma-aminobutyric acid (GABA-A) receptor, subunit epsilon	uni	sce_527	32.33	conserved hypothetical protein-putative chloride channel
SCE1572_8385	FIG01085109: hypothetical protein	uni	sce_8592	82.68	FIG01085109: hypothetical protein
SCE1572_8386	Mobile element protein	uni	sce_1675	96.77	ISLp1
SCE1572_8387	hypothetical protein	-		0	
SCE1572_8388	Enoyl-CoA hydratase/isomerase	bi	sce_7378	76.38	Enoyl-CoA hydratase (EC 4.2.1.17)
SCE1572_8389	Non-specific DNA-binding protein Dps / Iron-binding ferritin-like antioxidant protein / Ferroxidase (EC 1.16.3.1)	bi	sce_8819	68	Non-specific DNA-binding protein Dps / Iron-binding ferritin-like antioxidant protein / Ferroxidase (EC 1.16.3.1)
SCE1572_8390	hypothetical protein	-		0	
SCE1572_8391	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_7154	88.18	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_8392	hypothetical protein	-		0	
SCE1572_8393	putative antibiotic resistance membrane protein	uni	sce_8038	43.97	FIG01085364: hypothetical protein
SCE1572_8394	endo-1,4-beta-glucanase	bi	sce_7155	87.59	endo-1,4-beta-glucanase
SCE1572_8395	Hydroxymethylglutaryl-CoA synthase (EC 2.3.3.10)	bi	sce_7156	93.86	Hydroxymethylglutaryl-CoA synthase (EC 2.3.3.10)
SCE1572_8396	hypothetical protein	bi	sce_7157	77.78	hypothetical protein
SCE1572_8397	Streptococcal hemagglutinin protein	bi	sce_7158	77.27	Streptococcal hemagglutinin protein
SCE1572_8398	Cytosine/purine/uracil/thiamine/allantoin permease family protein	uni	sce_5278	56.49	Cytosine/purine/uracil/thiamine/allantoin permease family protein
SCE1572_8399	Dihydropyrimidine dehydrogenase [NADP] (EC 1.3.1.2)	bi	sce_7159	95.67	Dihydropyrimidine dehydrogenase [NADP] (EC 1.3.1.2)
SCE1572_8400	Pyridine nucleotide-disulphide oxidoreductase associated with reductive pyrimidine catabolism	bi	sce_7160	88.3	Pyridine nucleotide-disulphide oxidoreductase associated with reductive pyrimidine catabolism
SCE1572_8401	Dihydropyrimidinase (EC 3.5.2.2)	bi	sce_7161	94.85	Dihydropyrimidinase (EC 3.5.2.2)
SCE1572_8402	N-carbamoylputrescine amidase (3.5.1.53)	bi	sce_7162	95.52	N-carbamoylputrescine amidase (3.5.1.53)
SCE1572_8403	Methylmalonate-semialdehyde dehydrogenase (EC 1.2.1.27)	bi	sce_7163	92.08	Methylmalonate-semialdehyde dehydrogenase (EC 1.2.1.27)
SCE1572_8404	hypothetical protein	-		0	
SCE1572_8405	hypothetical protein	bi	sce_7164	79.56	hypothetical protein
SCE1572_8406	POSSIBLE MOLYBDOPTERIN BIOSYNTHESIS PROTEIN MOEY	bi	sce_7165	76.63	POSSIBLE MOLYBDOPTERIN BIOSYNTHESIS PROTEIN MOEY
SCE1572_8407	hypothetical protein	bi	sce_7166	84.13	hypothetical protein
SCE1572_8408	hypothetical protein	bi	sce_7167	76.91	hypothetical protein
SCE1572_8409	hypothetical protein	-		0	
SCE1572_8410	Integral membrane protein TerC	bi	sce_7169	89.66	Integral membrane protein TerC
SCE1572_8411	FIG01087362: hypothetical protein	bi	sce_7170	85.23	FIG01087362: hypothetical protein
SCE1572_8412	Dipeptidyl anminopeptidase	bi	sce_7171	89.47	Dipeptidyl anminopeptidase
SCE1572_8413	hypothetical protein, INTERPRO-suggestion: probable ferritin-like	bi	sce_7172	86.9	hypothetical protein, INTERPRO-suggestion: probable ferritin-like
SCE1572_8414	FIG01089058: hypothetical protein	bi	sce_7173	92.98	FIG01089058: hypothetical protein
SCE1572_8415	Deoxyribodipyrimidine photolyase, type II (EC 4.1.99.3)	bi	sce_7176	92.09	Deoxyribodipyrimidine photolyase, type II (EC 4.1.99.3)
SCE1572_8416	DedA protein	bi	sce_7177	93.75	DedA protein
SCE1572_8417	serine/threonine protein kinase	bi	sce_7178	72.25	serine/threonine protein kinase
SCE1572_8418	FIG01086020: hypothetical protein	bi	sce_7179	73.12	FIG01086020: hypothetical protein
SCE1572_8419	hypothetical protein	-		0	
SCE1572_8420	PhnB protein	bi	sce_7180	92.91	PhnB protein
SCE1572_8421	RNA polymerase sigma-70 factor, ECF subfamily	bi	sce_7181	94.12	RNA polymerase sigma-70 factor, ECF subfamily
SCE1572_8422	hypothetical protein	bi	sce_7182	92	hypothetical protein
SCE1572_8423	Omega-amino acid--pyruvate aminotransferase (EC 2.6.1.18)	bi	sce_7183	96.38	Omega-amino acid--pyruvate aminotransferase (EC 2.6.1.18)
SCE1572_8424	hypothetical protein	-		0	
SCE1572_8425	Transcriptional regulator, MarR family	bi	sce_7186	93.42	Transcriptional regulator, MarR family
SCE1572_8426	hypothetical protein	-		0	
SCE1572_8427	hypothetical protein	bi	sce_7187	75	hypothetical protein
SCE1572_8428	FIG01085592: hypothetical protein	bi	sce_7189	84.21	Cytochrome P450
SCE1572_8429	Cytochrome P450	bi	sce_7190	83.44	Cytochrome P450
SCE1572_8430	Threonyl-tRNA synthetase (EC 6.1.1.3)	bi	sce_4871	42.02	Threonyl-tRNA synthetase (EC 6.1.1.3)
SCE1572_8431	FIG01089260: hypothetical protein	bi	sce_7191	82.41	FIG01089260: hypothetical protein
SCE1572_8432	Exonuclease SbcC	bi	sce_7192	75.9	Exonuclease SbcC
SCE1572_8433	hypothetical protein	-		0	
SCE1572_8434	putative serine/threonine protein kinase	bi	sce_7193	83.24	putative serine/threonine protein kinase
SCE1572_8435	hypothetical protein	-		0	
SCE1572_8436	FIG01089129: hypothetical protein	uni	sce_7196	69.25	FIG01089129: hypothetical protein
SCE1572_8437	FIG01089129: hypothetical protein	bi	sce_7196	82.29	FIG01089129: hypothetical protein
SCE1572_8438	SAM-dependent methyltransferase	bi	sce_7197	93.33	Methyltransferase type 11
SCE1572_8439	helix-turn-helix, AraC type	bi	sce_7198	87.21	helix-turn-helix, AraC type
SCE1572_8440	Flagellar motor rotation protein MotB	bi	sce_7199	91.81	Flagellar motor rotation protein MotB
SCE1572_8441	Isocitrate dehydrogenase [NAD] (EC 1.1.1.41)	bi	sce_7201	94.38	Isocitrate dehydrogenase [NAD] (EC 1.1.1.41)
SCE1572_8442	hypothetical protein	bi	sce_7202	83.09	hypothetical protein
SCE1572_8443	hypothetical protein	bi	sce_7203	80.57	hypothetical protein
SCE1572_8444	Smr domain protein	bi	sce_7204	95.32	Smr domain protein
SCE1572_8445	hypothetical protein	bi	sce_7205	84.8	hypothetical protein
SCE1572_8446	Internalin-like protein (LPXTG motif) Lmo1136 homolog	uni	sce_9433	38.26	Annexin max4
SCE1572_8447	hypothetical protein	-		0	
SCE1572_8448	WD-40 repeat protein	uni	sce_7069	73.55	WD-40 repeat protein
SCE1572_8449	ADP-ribose pyrophosphatase (EC 3.6.1.13) homolog	bi	sce_7207	85.39	ADP-ribose pyrophosphatase (EC 3.6.1.13)
SCE1572_8450	Ribonuclease E (EC 3.1.26.12)	bi	sce_7208	73.44	Ribonuclease E (EC 3.1.26.12)
SCE1572_8451	hypothetical protein	bi	sce_7211	84.52	hypothetical protein
SCE1572_8452	hypothetical protein	bi	sce_7212	90.91	hypothetical protein
SCE1572_8453	D-tyrosyl-tRNA(Tyr) deacylase	bi	sce_7213	93.33	D-tyrosyl-tRNA(Tyr) deacylase
SCE1572_8454	2-dehydropantoate 2-reductase (EC 1.1.1.169)	bi	sce_7214	76.97	2-dehydropantoate 2-reductase (EC 1.1.1.169)
SCE1572_8455	4-hydroxythreonine-4-phosphate dehydrogenase (EC 1.1.1.262)	bi	sce_7215	92.13	4-hydroxythreonine-4-phosphate dehydrogenase (EC 1.1.1.262)
SCE1572_8456	Hypothetical protein	bi	sce_7216	89.78	Hypothetical protein
SCE1572_8457	TldD protein, part of proposed TldE/TldD proteolytic complex (PMID 12029038)	bi	sce_7217	95.43	TldD protein, part of proposed TldE/TldD proteolytic complex (PMID 12029038)
SCE1572_8458	TPR domain protein	bi	sce_7218	90.89	TPR domain protein, putative
SCE1572_8459	hypothetical protein	bi	sce_7219	82.85	hypothetical protein
SCE1572_8460	FIG01085025: hypothetical protein	bi	sce_7220	83.9	FIG01085025: hypothetical protein
SCE1572_8461	FIG01087052: hypothetical protein	bi	sce_7221	90.48	FIG01087052: hypothetical protein
SCE1572_8462	hypothetical protein	bi	sce_7222	92.39	hypothetical protein
SCE1572_8463	Carboxyl-terminal protease (EC 3.4.21.102)	bi	sce_7224	94.4	Carboxyl-terminal protease (EC 3.4.21.102)
SCE1572_8464	hypothetical protein	bi	sce_7225	90	hypothetical protein
SCE1572_8465	hypothetical protein	-		0	
SCE1572_8466	FIG01086374: hypothetical protein	bi	sce_7226	88.18	FIG01086374: hypothetical protein
SCE1572_8467	hypothetical protein	bi	sce_7227	87.91	hypothetical protein
SCE1572_8468	DnaK-related protein	bi	sce_7228	95.04	DnaK-related protein
SCE1572_8469	FIG01087868: hypothetical protein	bi	sce_7230	60.26	FIG01087868: hypothetical protein
SCE1572_8470	amidohydrolase	bi	sce_7231	78.4	similar to Xaa-Pro dipeptidase
SCE1572_8471	Cellobiose phosphorylase (EC 2.4.1.-)	bi	sce_7232	97.17	Cellobiose phosphorylase (EC 2.4.1.-)
SCE1572_8472	hypothetical protein	bi	sce_7234	77.69	hypothetical protein
SCE1572_8473	Outer membrane protein A precursor	bi	sce_7236	92.94	Outer membrane protein A precursor
SCE1572_8474	DnaK-related protein	bi	sce_7237	89.64	DnaK-related protein
SCE1572_8475	COG4748: Uncharacterized conserved protein	uni	sce_244	29.26	Prophage Lp2 protein 6
SCE1572_8476	Tenascin-X	bi	sce_7238	79.22	Tenascin-X
SCE1572_8477	hypothetical protein	bi	sce_7239	71.11	Secreted protein containing C-terminal beta-propeller domain distantly related to WD-40 repeats
SCE1572_8478	FIG01087397: hypothetical protein	bi	sce_7243	85.47	FIG01087397: hypothetical protein
SCE1572_8479	Glutaredoxin	bi	sce_7244	86.36	Uncharacterized monothiol glutaredoxin ycf64-like
SCE1572_8480	Two-component system regulatory protein	bi	sce_7245	83.44	Two-component system regulatory protein
SCE1572_8481	Ribonuclease E inhibitor RraA	bi	sce_7246	82.91	Ribonuclease E inhibitor RraA
SCE1572_8482	hypothetical protein	bi	sce_7248	86.59	hypothetical protein
SCE1572_8483	FIG01089146: hypothetical protein	bi	sce_7249	80.23	FIG01089146: hypothetical protein
SCE1572_8484	hypothetical protein	bi	sce_7251	75.66	Annexin A7 (Annexin-7) (Annexin VII) (Synexin)
SCE1572_8485	Leishmania major strain Friedlin hypothetical protein LMJ_0963	bi	sce_7252	79.22	Tetratricopeptide TPR_2 repeat protein
SCE1572_8486	Thrombospondin-1 precursor	uni	sce_4105	69.76	Chitodextrinase precursor (EC 3.2.1.14)
SCE1572_8487	hypothetical protein	-		0	
SCE1572_8488	Capsule biosynthesis protein capA	bi	sce_7254	85.64	Capsule biosynthesis protein capA
SCE1572_8489	Membrane proteins related to metalloendopeptidases	bi	sce_7256	85.82	Membrane proteins related to metalloendopeptidases
SCE1572_8490	Ribosomal large subunit pseudouridine synthase D (EC 4.2.1.70)	bi	sce_7257	97.12	Ribosomal large subunit pseudouridine synthase D (EC 4.2.1.70)
SCE1572_8491	Elastin precursor (Tropoelastin)	bi	sce_7258	82.46	FIG01086165: hypothetical protein
SCE1572_8492	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_7260	96.85	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_8493	hypothetical protein	bi	sce_7261	80.8	hypothetical protein
SCE1572_8494	TPR domain protein	bi	sce_7262	84.33	TPR repeat-containing protein
SCE1572_8495	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	uni	sce_3750	47.42	serine/threonine protein kinase with WD40 repeats
SCE1572_8496	serine/threonine-protein kinase Pkn3(EC:2.7.11.1)	uni	sce_5226	39.35	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_8497	endoglucanase(EC:3.2.1.4)	uni	sce_1662	30.56	FIG00890145: hypothetical protein
SCE1572_8498	hypothetical protein	-		0	
SCE1572_8499	Serine/threonine protein kinase	uni	sce_3750	45.83	serine/threonine protein kinase with WD40 repeats
SCE1572_8500	hypothetical protein	uni	sce_1566	34.33	conserved repeat domain protein
SCE1572_8501	hypothetical protein	uni	sce_3858	27.67	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_8502	LigA	uni	sce_8748	30.73	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_8503	hypothetical protein	bi	sce_4101	81.4	hypothetical protein
SCE1572_8504	Extensin-like protein precursor	bi	sce_4100	76.58	Flagellar hook-length control protein FliK
SCE1572_8505	FIG01086011: hypothetical protein	bi	sce_4099	82.24	FIG01086011: hypothetical protein
SCE1572_8506	RNA polymerase sigma factor RpoE	bi	sce_4098	92.54	RNA polymerase sigma factor RpoE
SCE1572_8507	DNA repair protein RadC	bi	sce_7263	89.43	DNA repair protein RadC
SCE1572_8508	FIG01086239: hypothetical protein	uni	sce_9500	76.47	hypothetical protein
SCE1572_8509	hypothetical protein	uni	sce_9501	79.35	hypothetical protein
SCE1572_8510	FIG01087109: hypothetical protein	bi	sce_8461	89.93	FIG01087109: hypothetical protein
SCE1572_8511	FIG01086239: hypothetical protein	bi	sce_9502	94.35	FIG01086239: hypothetical protein
SCE1572_8512	hypothetical protein	bi	sce_9503	93.08	hypothetical protein
SCE1572_8513	hypothetical protein	uni	sce_9503	87.87	hypothetical protein
SCE1572_8514	hypothetical protein	uni	sce_10365	73.76	hypothetical protein
SCE1572_8515	Methyltransferase type 11	uni	sce_10364	77.61	hypothetical protein
SCE1572_8516	hypothetical protein	-		0	
SCE1572_8517	hypothetical protein	bi	sce_10363	94.46	hypothetical protein
SCE1572_8518	Molybdopterin binding motif, CinA N-terminal domain	bi	sce_7264	93.39	Molybdopterin binding motif, CinA N-terminal domain
SCE1572_8519	Exodeoxyribonuclease VII small subunit (EC 3.1.11.6)	bi	sce_7265	77.78	Exodeoxyribonuclease VII small subunit (EC 3.1.11.6)
SCE1572_8520	Chromosome partition protein smc	bi	sce_7266	86.93	Chromosome partition protein smc
SCE1572_8521	hypothetical protein	-		0	
SCE1572_8522	Molybdenum cofactor biosynthesis protein MoaA	bi	sce_7267	94.41	Molybdenum cofactor biosynthesis protein MoaA
SCE1572_8523	hypothetical protein	-		0	
SCE1572_8524	serine/threonine protein kinase	bi	sce_7268	74.75	serine/threonine protein kinase
SCE1572_8525	FIG01087802: hypothetical protein	bi	sce_7269	87.74	FIG01087802: hypothetical protein
SCE1572_8526	acetyltransferase, GNAT family	bi	sce_7270	91.45	acetyltransferase, GNAT family

SCE1572_8527	hypothetical protein	-		0	
SCE1572_8528	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_7272	95.18	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_8529	Nudix hydrolase 3 (EC 3.6.1.-)	bi	sce_7273	91.36	Nudix hydrolase 3 (EC 3.6.1.-)
SCE1572_8530	Gll0645 protein	bi	sce_7274	71.88	Gll0645 protein
SCE1572_8531	hypothetical protein	bi	sce_7275	75.12	FIG01087536: hypothetical protein
SCE1572_8532	Flagellar motor rotation protein MotA	bi	sce_8933	51.22	Electron transfer flavoprotein, alpha subunit
SCE1572_8533	serine/threonine protein kinase	bi	sce_7276	88.3	Serine/threonine-protein kinase (EC 2.7.1.-)
SCE1572_8534	MoxR-like ATPase in aerotolerance operon	bi	sce_7277	98.17	MoxR-like ATPase in aerotolerance operon
SCE1572_8535	hypothetical protein PA3071	bi	sce_7278	98.68	hypothetical protein PA3071
SCE1572_8536	hypothetical protein	bi	sce_7279	85.6	hypothetical protein
SCE1572_8537	BatA (Bacteroides aerotolerance operon)	bi	sce_7280	95.28	BatA (Bacteroides aerotolerance operon)
SCE1572_8538	BatB	bi	sce_7281	96.35	BatB
SCE1572_8539	hypothetical protein	bi	sce_7282	84.64	Ser-Asp rich fibrinogen-binding,bone sialoprotein-binding protein
SCE1572_8540	BatD	bi	sce_7283	87.82	BatD
SCE1572_8541	FIG01088673: hypothetical protein	bi	sce_7285	99.44	FIG01088673: hypothetical protein
SCE1572_8542	TolR protein	bi	sce_7286	91.98	TolR protein
SCE1572_8543	transcriptional regulator, XRE family	bi	sce_7288	75.7	Probable transcriptional regulator
SCE1572_8544	hypothetical protein	-		0	
SCE1572_8545	dTDP-4-dehydrorhamnose reductase (EC 1.1.1.133)	bi	sce_3427	73.61	dTDP-4-dehydrorhamnose reductase (EC 1.1.1.133)
SCE1572_8546	UDP-galactopyranose mutase (EC 5.4.99.9)	bi	sce_3426	85.75	UDP-galactopyranose mutase (EC 5.4.99.9)
SCE1572_8547	Glycosyltransferase	bi	sce_3425	71.09	Glycosyltransferase
SCE1572_8548	Beta-galactosidase (EC 3.2.1.23)	bi	sce_3424	74.96	Beta-galactosidase (EC 3.2.1.23)
SCE1572_8549	Cardiolipin synthetase (EC 2.7.8.-)	bi	sce_7289	91.28	Cardiolipin synthetase (EC 2.7.8.-)
SCE1572_8550	ATPase associated with various cellular activities, AAA_5	bi	sce_7290	93.19	ATPase associated with various cellular activities, AAA_5
SCE1572_8551	Thioredoxin reductase (EC 1.8.1.9)	bi	sce_7291	91.23	Thioredoxin reductase (EC 1.8.1.9)
SCE1572_8552	Transposase	bi	sce_7292	84.28	FIG01086976: hypothetical protein
SCE1572_8553	histidine kinase	bi	sce_7293	90.79	periplasmic sensor signal transduction histidine kinase
SCE1572_8554	FIG092679: Fe-S oxidoreductase	bi	sce_7294	89.97	FIG092679: Fe-S oxidoreductase
SCE1572_8555	hypothetical protein	bi	sce_7295	96.19	hypothetical protein
SCE1572_8556	Inner membrane protein YihY, formerly thought to be RNase BN	bi	sce_7296	86.16	Inner membrane protein YihY, formerly thought to be RNase BN
SCE1572_8557	FIG01087472: hypothetical protein	bi	sce_7297	84.46	FIG01087472: hypothetical protein
SCE1572_8558	hypothetical protein	bi	sce_7298	85.77	FIG01087472: hypothetical protein
SCE1572_8559	RNA polymerase sigma-70 factor	uni	sce_5761	43.89	RNA polymerase sigma factor
SCE1572_8560	putative glutathione S-transferase protein	bi	sce_2394	91.43	putative glutathione S-transferase protein
SCE1572_8561	FIG01088113: hypothetical protein	bi	sce_7304	78.57	FIG01088113: hypothetical protein
SCE1572_8562	RsbR, positive regulator of sigma-B	uni	sce_5156	47.85	RsbR, positive regulator of sigma-B
SCE1572_8563	hypothetical protein	-		0	
SCE1572_8564	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_4641	44.67	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_8565	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_4641	45.61	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_8566	Glutathione S-transferase (EC 2.5.1.18)	bi	sce_7306	77.29	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_8567	ABC transporter, ATP-binding protein	bi	sce_7307	90	ABC transporter ATP-binding protein
SCE1572_8568	hypothetical protein	uni	sce_7308	91.37	hypothetical protein
SCE1572_8569	hypothetical protein	-		0	
SCE1572_8570	hypothetical protein	-		0	
SCE1572_8571	hypothetical protein	-		0	
SCE1572_8572	hypothetical protein	-		0	
SCE1572_8573	hypothetical protein	-		0	
SCE1572_8574	Insecticidal toxin complex protein TcdB1	-		0	
SCE1572_8575	Insecticidal toxin complex protein TcdB1	-		0	
SCE1572_8576	transposase IS116/IS110/IS902 family protein	-		0	
SCE1572_8577	Mobile element protein	uni	sce_299	94.19	Mobile element protein
SCE1572_8578	Mobile element protein	uni	sce_1675	96.77	ISLp1
SCE1572_8579	hypothetical protein	-		0	
SCE1572_8580	Insecticidal toxin complex protein TcdB1	uni	sce_8753	33.18	YD repeat protein
SCE1572_8581	Insecticidal toxin complex protein TcdB1	uni	sce_9566	77.28	Insecticidal toxin complex protein TcdB1
SCE1572_8582	hypothetical protein	-		0	
SCE1572_8583	Insecticidal toxin complex protein TccB1	bi	sce_9567	37.53	Insecticidal toxin complex protein TccB1
SCE1572_8584	hypothetical protein	-		0	
SCE1572_8585	FIG01088568: hypothetical protein	bi	sce_7312	76.65	FIG01088568: hypothetical protein
SCE1572_8586	LigA	uni	sce_3858	38.36	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_8587	hypothetical protein	bi	sce_7313	54.24	peptidase, M23/M37 family protein
SCE1572_8588	Leucine-rich repeat	bi	sce_7314	91.57	Leucine-rich repeat
SCE1572_8589	hypothetical protein	bi	sce_7315	89.74	hypothetical protein
SCE1572_8590	hypothetical protein	bi	sce_7317	90.91	hypothetical protein
SCE1572_8591	hypothetical protein	-		0	
SCE1572_8592	hypothetical protein	-		0	
SCE1572_8593	hypothetical protein	-		0	
SCE1572_8594	putative thioredoxin	bi	sce_6282	84.3	putative thioredoxin
SCE1572_8595	hypothetical protein	-		0	
SCE1572_8596	hypothetical protein	-		0	
SCE1572_8597	regulator of chromosome condensation, RCC1	uni	sce_6010	36.46	Collagen triple helix repeat
SCE1572_8598	hypothetical protein	-		0	
SCE1572_8599	hypothetical protein	-		0	
SCE1572_8600	hypothetical protein	-		0	
SCE1572_8601	Serine acetyltransferase (EC 2.3.1.30)	uni	sce_8200	43.51	serine O-acetyltransferase (serine acetyltransferase)(EC:2.3.1.30)
SCE1572_8602	glycosyl transferase, group 1	uni	sce_1162	35.53	Glycosyl transferase, group 1 family protein
SCE1572_8603	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1)	bi	sce_7319	95.36	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1)
SCE1572_8604	LSU m5C1962 methyltransferase RlmI	bi	sce_7320	86.35	LSU m5C1962 methyltransferase RlmI
SCE1572_8605	Outer membrane lipoprotein carrier protein LolA	bi	sce_7321	94.27	Translation initiation factor 2
SCE1572_8606	hypothetical protein	-		0	
SCE1572_8607	Serine phosphatase RsbU, regulator of sigma subunit	bi	sce_7322	95.49	sigma factor regulatory protein
SCE1572_8608	Phosphoribosylformylglycinamidine synthase, synthetase subunit (EC 6.3.5.3)	bi	sce_7323	90.32	Phosphoribosylformylglycinamidine synthase, synthetase subunit (EC 6.3.5.3)
SCE1572_8609	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-)	uni	sce_217	33.46	two-component sensor histidine kinase
SCE1572_8610	PUTATIVE ZINC PROTEASE PROTEIN	bi	sce_7325	84.75	PUTATIVE ZINC PROTEASE PROTEIN
SCE1572_8611	Cyclopropane-fatty-acyl-phospholipid synthase (EC 2.1.1.79)	bi	sce_7326	88.25	Cyclopropane-fatty-acyl-phospholipid synthase (EC 2.1.1.79)
SCE1572_8612	hypothetical protein	uni	sce_2131	31.25	FIG00838574: hypothetical protein
SCE1572_8613	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_7332	89.16	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_8614	Succinate dehydrogenase cytochrome b subunit	bi	sce_7334	88.74	Succinate dehydrogenase cytochrome b subunit
SCE1572_8615	Succinate dehydrogenase flavoprotein subunit (EC 1.3.99.1)	bi	sce_7335	96.7	Succinate dehydrogenase flavoprotein subunit (EC 1.3.99.1)
SCE1572_8616	Succinate dehydrogenase iron-sulfur protein (EC 1.3.99.1)	bi	sce_7336	93.77	Succinate dehydrogenase iron-sulfur protein (EC 1.3.99.1)
SCE1572_8617	FIG01088091: hypothetical protein	bi	sce_7337	84.03	hypothetical protein
SCE1572_8618	Sulfite oxidase and related enzymes	bi	sce_7338	86.36	Sulfite oxidase and related enzymes
SCE1572_8619	FIG001196: putative membrane protein	bi	sce_7339	87.21	FIG001196: putative membrane protein
SCE1572_8620	FIG01086216: hypothetical protein	bi	sce_7341	95.11	FIG01086216: hypothetical protein
SCE1572_8621	Glutathione reductase (EC 1.8.1.7)	bi	sce_7343	89.05	Glutathione reductase (EC 1.8.1.7)
SCE1572_8622	FIG01086997: hypothetical protein	bi	sce_7344	87.36	FIG01086997: hypothetical protein
SCE1572_8623	Maltose O-acetyltransferase (EC 2.3.1.79)	bi	sce_7345	81.72	Maltose O-acetyltransferase (EC 2.3.1.79)
SCE1572_8624	hypothetical protein	bi	sce_7346	85.33	hypothetical protein
SCE1572_8625	Archaeal seryl-tRNA synthetase-related sequence	bi	sce_7347	93.35	Archaeal seryl-tRNA synthetase-related sequence
SCE1572_8626	Lactoylglutathione lyase (EC 4.4.1.5)	uni	sce_7063	43.33	Glyoxalase family protein
SCE1572_8627	FIG01088001: hypothetical protein	bi	sce_7348	79.94	FIG01088001: hypothetical protein
SCE1572_8628	Pirin-like protein YhhW, possibly qercetin 2,3-dioxygenase activity	bi	sce_7349	87.3	Pirin-like protein YhhW, possibly qercetin 2,3-dioxygenase activity
SCE1572_8629	Transcriptional regulator	bi	sce_6206	50.71	Transcriptional regulator
SCE1572_8630	Hemerythrin HHE cation binding domain protein	bi	sce_7350	83.02	Hemerythrin HHE cation binding protein
SCE1572_8631	hypothetical protein	-		0	
SCE1572_8632	hypothetical protein	bi	sce_7352	81.02	hypothetical protein
SCE1572_8633	6-phosphogluconolactonase (EC 3.1.1.31)	uni	sce_6773	36.29	Putative hemagglutinin-related protein
SCE1572_8634	Tat (Twin-arginine translocation) pathway signal sequence domain protein	-		0	
SCE1572_8635	Tat (Twin-arginine translocation) pathway signal sequence domain protein	bi	sce_4902	82.24	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_8636	Cellulose-binding domain protein	bi	sce_4903	87.01	Cellulose-binding domain protein
SCE1572_8637	Thermophilic serine proteinase precursor (EC 3.4.21.-) (Ak.1 protease)	bi	sce_7353	78.89	subtilase family peptidase
SCE1572_8638	FIG01086376: hypothetical protein	bi	sce_7355	72.66	FIG01086376: hypothetical protein
SCE1572_8639	FIG00840944: hypothetical protein	bi	sce_7358	79.35	hypothetical protein
SCE1572_8640	hypothetical protein	bi	sce_7359	75.53	hypothetical protein
SCE1572_8641	1,4-alpha-glucan (glycogen) branching enzyme, GH-13-type (EC 2.4.1.18)	bi	sce_7360	81.76	1,4-alpha-glucan (glycogen) branching enzyme, GH-13-type (EC 2.4.1.18)
SCE1572_8642	AAA ATPase	bi	sce_7361	90.41	AAA ATPase
SCE1572_8643	hypothetical protein	bi	sce_7362	91.88	hypothetical protein
SCE1572_8644	4-amino-4-deoxy-L-arabinose transferase and related glycosyltransferases of PMT family	bi	sce_7363	87.44	4-amino-4-deoxy-L-arabinose transferase and related glycosyltransferases of PMT family
SCE1572_8645	hypothetical protein	uni	sce_4778	47.14	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_8646	hypothetical Membrane Spanning Protein	bi	sce_7364	87.61	hypothetical abductin-like protein
SCE1572_8647	hypothetical protein	-		0	
SCE1572_8648	Methyltransferase type 11	uni	sce_4134	40.62	hypothetical protein
SCE1572_8649	hypothetical protein	uni	sce_7596	36.49	FIG01087864: hypothetical protein
SCE1572_8650	glycosyl transferase group 1	bi	sce_7366	87.93	glycosyl transferase, group 1
SCE1572_8651	hypothetical protein	-		0	
SCE1572_8652	erythrocyte membrane protein 1 (PfEMP1)	bi	sce_7367	66.79	Maltose/maltodextrin ABC transporter, substrate binding periplasmic protein MalE
SCE1572_8653	hypothetical protein	bi	sce_7368	83.58	hypothetical protein
SCE1572_8654	Dihydrolipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex (EC 2.3.1.168)	bi	sce_7369	90.11	Dihydrolipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex (EC 2.3.1.168)
SCE1572_8655	Serine hydroxymethyltransferase (EC 2.1.2.1)	bi	sce_7370	95.98	Serine hydroxymethyltransferase (EC 2.1.2.1)
SCE1572_8656	hypothetical protein	bi	sce_7371	89.22	FIG00995724: hypothetical protein
SCE1572_8657	hypothetical protein	bi	sce_7372	89.71	hypothetical protein
SCE1572_8658	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)	bi	sce_7373	90.05	FIG00995724: hypothetical protein
SCE1572_8659	histone-like DNA-binding protein	bi	sce_7374	99.11	histone-like DNA-binding protein
SCE1572_8660	hypothetical protein	-		0	
SCE1572_8661	hypothetical protein	bi	sce_7375	86.69	TPR domain protein, putative component of TonB system
SCE1572_8662	hypothetical protein	uni	sce_2131	30.98	FIG00838574: hypothetical protein
SCE1572_8663	hypothetical protein	bi	sce_7393	88.5	hypothetical protein
SCE1572_8664	hypothetical protein	bi	sce_7395	67.98	hypothetical protein
SCE1572_8665	Urea carboxylase-related ABC transporter, periplasmic substrate-binding protein	uni	sce_2159	30.19	Urea carboxylase-related ABC transporter, periplasmic substrate-binding protein
SCE1572_8666	Urea carboxylase-related ABC transporter, permease protein	-		0	
SCE1572_8667	Aspartate racemase (EC 5.1.1.13)	-		0	
SCE1572_8668	putative acetyltransferase	bi	sce_2495	88.74	Histone acetyltransferase HPA2/related acetyltransferase
SCE1572_8669	glycoside hydrolase, family 43	uni	sce_6970	77.36	hypothetical protein
SCE1572_8670	putative nitrilotriacetate monooxygenase	bi	sce_7122	94.44	Coenzyme F420-dependent N5,N10-methylene tetrahydromethanopterin reductase and related flavin-dependent oxidoreductases
SCE1572_8671	hypothetical protein	bi	sce_6971	78.57	hypothetical protein
SCE1572_8672	hypothetical protein	bi	sce_3730	70.62	hypothetical protein
SCE1572_8673	FIG01085364: hypothetical protein	uni	sce_7367	36.68	Maltose/maltodextrin ABC transporter, substrate binding periplasmic protein MalE
SCE1572_8674	Predicted transcriptional regulators	bi	sce_2613	73.2	Predicted transcriptional regulators
SCE1572_8675	Activator of Hsp90 ATPase 1 family protein	uni	sce_2614	50.18	FIG00485988: hypothetical protein
SCE1572_8676	RsbR, positive regulator of sigma-B	uni	sce_5782	37.87	RsbR, positive regulator of sigma-B
SCE1572_8677	hypothetical protein	-		0	
SCE1572_8678	Transcriptional regulator, LysR family	uni	sce_6321	44.3	Transcriptional regulator, LysR family
SCE1572_8679	oxidoreductase	uni	sce_1565	45.85	Dehydrogenases with different specificities (related to short-chain alcohol dehydrogenases)
SCE1572_8680	FIG01089157: hypothetical protein	bi	sce_7433	93.85	FIG01089157: hypothetical protein
SCE1572_8681	FIG01089570: hypothetical protein	bi	sce_3735	92.52	FIG01089570: hypothetical protein
SCE1572_8682	hypothetical protein	bi	sce_6962	56.86	hypothetical protein
SCE1572_8683	short-chain dehydrogenase/reductase SDR	uni	sce_376	40.25	Probable short-chain dehydrogenase
SCE1572_8684	Transcriptional regulator, LysR family	bi	sce_1255	36.88	Transcriptional regulator, LysR family
SCE1572_8685	hypothetical protein	bi	sce_7426	86.27	jmjC domain protein
SCE1572_8686	hypothetical protein	bi	sce_7427	69.3	predicted protein
SCE1572_8687	hypothetical protein	bi	sce_7428	63.7	hypothetical protein
SCE1572_8688	putative lipoprotein	bi	sce_7434	73.94	Similarity
SCE1572_8689	UPF0043 membrane protein YdjX	bi	sce_8360	73.15	UPF0043 membrane protein YdjX
SCE1572_8690	hypothetical protein	-		0	

SCE1572_8691	Catabolite control protein A	bi	sce_8694	82.33	Catabolite control protein A
SCE1572_8692	FIG01088161: hypothetical protein	uni	sce_1321	62.16	FIG01085514: hypothetical protein
SCE1572_8693	FIG01085514: hypothetical protein	uni	sce_1321	66.84	FIG01085514: hypothetical protein
SCE1572_8694	Beta-lactamase class C and other penicillin binding proteins	bi	sce_7435	76.05	Beta-lactamase class C and other penicillin binding proteins
SCE1572_8695	Nif-specific regulatory protein	uni	sce_7436	82.38	Nif-specific regulatory protein
SCE1572_8696	hypothetical protein	uni	sce_5150	44.44	LpqC
SCE1572_8697	Nif-specific regulatory protein	bi	sce_7436	86.21	Nif-specific regulatory protein
SCE1572_8698	FIG01087003: hypothetical protein	bi	sce_7465	91.43	FIG01087003: hypothetical protein
SCE1572_8699	similarity to galactose oxidase from Dactylium dendroides	bi	sce_9318	29.88	RTX toxins and related Ca2温□ proteins
SCE1572_8700	FIG01087098: hypothetical protein	bi	sce_7466	79.94	FIG01087098: hypothetical protein
SCE1572_8701	FIG00840613: hypothetical protein	-		0	
SCE1572_8702	transcriptional regulator, TetR family	bi	sce_7467	80.1	Transcriptional regulator, TetR family
SCE1572_8703	FIG01086489: hypothetical protein	bi	sce_7473	91.8	hypothetical protein
SCE1572_8704	hypothetical protein	bi	sce_7474	58.06	hypothetical protein
SCE1572_8705	hypothetical protein	-		0	
SCE1572_8706	Transcriptional regulator, TetR family	uni	sce_1534	28.57	Transcriptional regulator, TetR family
SCE1572_8707	FIG01087827: hypothetical protein	uni	sce_100	81.44	FIG01087827: hypothetical protein
SCE1572_8708	Transcriptional regulator, AraC family	uni	sce_1358	38.51	Transcriptional regulator, AraC family
SCE1572_8709	FIG01088376: hypothetical protein	bi	sce_7477	79.05	FIG01088376: hypothetical protein
SCE1572_8710	Lactoylglutathione lyase and related lyases	bi	sce_851	92.97	Lactoylglutathione lyase and related lyases
SCE1572_8711	Transcriptional regulator, AraC family	bi	sce_852	89.8	Transcriptional regulator, AraC family
SCE1572_8712	hypothetical protein	bi	sce_7522	84.59	COG1306 predicted glycoside hydrolase
SCE1572_8713	ABC-type antimicrobial peptide transport system, permease component	bi	sce_7523	88.92	ABC-type antimicrobial peptide transport system, permease component
SCE1572_8714	ABC-type antimicrobial peptide transport system, permease component	bi	sce_7524	88.66	ABC-type antimicrobial peptide transport system, permease component
SCE1572_8715	Methionine ABC transporter ATP-binding protein	bi	sce_7525	96.98	Methionine ABC transporter ATP-binding protein
SCE1572_8716	Acriflavin resistance protein	bi	sce_7526	88.26	Acriflavin resistance protein
SCE1572_8717	hypothetical protein	-		0	
SCE1572_8718	Nucleoside-diphosphate-sugar epimerase	uni	sce_7592	38.82	putative dTDP-glucose 4,6-dehydratase protein(EC:4.2.1.46)
SCE1572_8719	FIG01088071: hypothetical protein	bi	sce_5999	75.2	FIG01088071: hypothetical protein
SCE1572_8720	hypothetical protein	uni	sce_331	42.33	hypothetical protein
SCE1572_8721	putative cytochrome P450 hydroxylase	uni	sce_7075	40.53	putative cytochrome P450 hydroxylase
SCE1572_8722	FIG01087435: hypothetical protein	bi	sce_5994	84	FIG01087435: hypothetical protein
SCE1572_8723	hypothetical protein	-		0	
SCE1572_8724	Beta-lactamase class C and other penicillin binding proteins	uni	sce_4328	30.99	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)
SCE1572_8725	hypothetical protein	-		0	
SCE1572_8726	hypothetical protein	-		0	
SCE1572_8727	hypothetical protein	uni	sce_3292	28.57	Cellulose-binding domain protein
SCE1572_8728	putative transcriptional regulator (AraC family)	uni	sce_7800	35.2	Transcriptional regulator, AraC family
SCE1572_8729	FIG01086984: hypothetical protein	bi	sce_7527	78.37	FIG01086984: hypothetical protein
SCE1572_8730	Matrix metalloproteinase-25 precursor (EC 3.4.24.-) (MMP-25) (Membrane-type matrix metalloproteinase 6) (MT-MMP 6) (M	bi	sce_7540	80.36	Matrix metalloproteinase-25 precursor (EC 3.4.24.-) (MMP-25) (Membrane-type matrix metalloproteinase 6) (MT-MMP 6) (Membra
SCE1572_8731	protein of unknown function DUF82	bi	sce_7541	76.44	protein of unknown function DUF82
SCE1572_8732	FIG01086246: hypothetical protein	bi	sce_7544	67.8	hypothetical protein
SCE1572_8733	RsbR, positive regulator of sigma-B	bi	sce_828	83.59	RsbR, positive regulator of sigma-B
SCE1572_8734	FIG01089631: hypothetical protein	bi	sce_829	92.64	FIG01089631: hypothetical protein
SCE1572_8735	hypothetical protein	-		0	
SCE1572_8736	hypothetical protein	-		0	
SCE1572_8737	FIG01086608: hypothetical protein	bi	sce_7545	91.37	FIG01086608: hypothetical protein
SCE1572_8738	Endoglucanase (EC 3.2.1.4)	bi	sce_7546	69.39	Endoglucanase (EC 3.2.1.4)
SCE1572_8739	serine/threonine protein kinase	bi	sce_7547	69.83	serine/threonine protein kinase
SCE1572_8740	ABC transporter permease protein	bi	sce_7557	90.84	protein of unknown function DUF990
SCE1572_8741	ABC transporter, ATP-binding protein	bi	sce_7559	95.4	ABC transporter, ATP-binding protein
SCE1572_8742	putative phosphotransferase	bi	sce_7560	73.68	hypothetical protein
SCE1572_8743	hypothetical protein	-		0	
SCE1572_8744	Bll2291 protein	uni	sce_5502	35.97	Bll2291 protein
SCE1572_8745	hypothetical protein	bi	sce_8644	48.98	hypothetical protein
SCE1572_8746	hypothetical protein	bi	sce_162	61.97	hypothetical protein
SCE1572_8747	hypothetical protein	-		0	
SCE1572_8748	FIG01086696: hypothetical protein	bi	sce_7571	83.06	FIG01086696: hypothetical protein
SCE1572_8749	serine/threonine kinase	bi	sce_7572	83.71	protein of unknown function DUF323
SCE1572_8750	hypothetical protein	-		0	
SCE1572_8751	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	bi	sce_4639	44.61	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_8752	hypothetical protein	-		0	
SCE1572_8753	hypothetical protein	uni	sce_289	25.11	expressed protein
SCE1572_8754	FIG01085697: hypothetical protein	uni	sce_7575	66.67	FIG01085697: hypothetical protein
SCE1572_8755	COG2124: Cytochrome P450	bi	sce_7574	64.44	hypothetical protein
SCE1572_8756	FIG01085697: hypothetical protein	bi	sce_7575	76.08	FIG01085697: hypothetical protein
SCE1572_8757	FIG01085898: hypothetical protein	bi	sce_7576	76.73	FIG01085898: hypothetical protein
SCE1572_8758	RsbR, positive regulator of sigma-B	bi	sce_7578	84.26	RsbR, positive regulator of sigma-B
SCE1572_8759	FIG01086900: hypothetical protein	bi	sce_7579	71.62	FIG01086900: hypothetical protein
SCE1572_8760	Glycosyl hydrolase, family 30	bi	sce_2037	74.14	Glycosyl hydrolase, family 30
SCE1572_8761	Redoxin	uni	sce_4916	45.71	hypothetical protein
SCE1572_8762	Serine/threonine protein kinase	uni	sce_774	55.47	FIG01087003: hypothetical protein
SCE1572_8763	hypothetical protein	-		0	
SCE1572_8764	Mobile element protein	uni	sce_1675	96.77	ISLp1
SCE1572_8765	serine/threonine protein kinase	uni	sce_1432	45.28	Serine/threonine protein kinase PpkA
SCE1572_8766	predicted protein	uni	sce_7695	42.47	predicted protein
SCE1572_8767	hypothetical protein	bi	sce_6808	91.77	hypothetical protein
SCE1572_8768	hypothetical protein	-		0	
SCE1572_8769	FIG01003647: hypothetical protein	-		0	
SCE1572_8770	hypothetical protein	-		0	
SCE1572_8771	hypothetical protein	-		0	
SCE1572_8772	Bacteriophage protein gp37	-		0	
SCE1572_8773	hypothetical protein	-		0	
SCE1572_8774	Resolvase, N-terminal domain	-		0	
SCE1572_8775	Serine/threonine protein kinase	uni	sce_5787	40.3	FIG01087003: hypothetical protein
SCE1572_8776	FIG01087754: hypothetical protein	uni	sce_2414	65.57	FIG01087754: hypothetical protein
SCE1572_8777	integral membrane protein	bi	sce_7787	90.22	integral membrane protein
SCE1572_8778	CDP-diacylglycerol--serine O-phosphatidyltransferase (EC 2.7.8.8)	bi	sce_7581	69.13	CDP-diacylglycerol--serine O-phosphatidyltransferase (EC 2.7.8.8)
SCE1572_8779	Antibiotic biosynthesis monooxygenase	bi	sce_7584	96.61	Antibiotic biosynthesis monooxygenase
SCE1572_8780	Predicted membrane protein	-		0	
SCE1572_8781	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_7585	88.44	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_8782	Nucleoside-diphosphate-sugar epimerases	bi	sce_7586	84.04	Nucleoside-diphosphate-sugar epimerases
SCE1572_8783	Fe-S oxidoreductase	bi	sce_7587	87.99	Fe-S oxidoreductase
SCE1572_8784	Glycosyltransferase	bi	sce_7588	83.03	Glycosyltransferase
SCE1572_8785	Glycosyltransferase (EC 2.4.1.-)	bi	sce_7589	88.31	Glycosyltransferase (EC 2.4.1.-)
SCE1572_8786	Uncharacterized protein conserved in bacteria	bi	sce_7590	90.26	Uncharacterized protein conserved in bacteria
SCE1572_8787	Uncharacterized protein conserved in bacteria	bi	sce_7591	86.18	Uncharacterized protein conserved in bacteria
SCE1572_8788	hypothetical protein	-		0	
SCE1572_8789	dTDP-glucose 4,6-dehydratase (EC 4.2.1.46)	bi	sce_7592	87.8	putative dTDP-glucose 4,6-dehydratase protein(EC:4.2.1.46)
SCE1572_8790	Inositol-1-phosphate synthase (EC 5.5.1.4)	uni	sce_2005	79.86	Inositol-1-phosphate synthase (EC 5.5.1.4)
SCE1572_8791	N-acetylglutamate synthase (EC 2.3.1.1)	bi	sce_1526	32.99	Acetyltransferase, GNAT family
SCE1572_8792	hypothetical protein	bi	sce_5303	83.66	hypothetical protein
SCE1572_8793	hypothetical protein	-		0	
SCE1572_8794	LOC432261 protein	bi	sce_6254	57.29	LOC432261 protein
SCE1572_8795	protein of unknown function DUF541	bi	sce_8795	43.89	Outer membrane protein
SCE1572_8796	hypothetical protein	uni	sce_867	33.42	Hemolysin-type calcium-binding region
SCE1572_8797	putative ISXo8 transposase	-		0	
SCE1572_8798	hypothetical protein	-		0	
SCE1572_8799	hypothetical protein	-		0	
SCE1572_8800	hypothetical protein	-		0	
SCE1572_8801	hypothetical protein	-		0	
SCE1572_8802	hypothetical protein	uni	sce_6222	46.45	Conserved protein, with a weak D-galactarate dehydratase/altronate hydrolase domain
SCE1572_8803	Transcriptional regulator, TetR family	bi	sce_1534	89.7	Transcriptional regulator, TetR family
SCE1572_8804	Galactoside O-acetyltransferase (EC 2.3.1.18)	bi	sce_1535	88.83	Galactoside O-acetyltransferase (EC 2.3.1.18)
SCE1572_8805	hypothetical protein	-		0	
SCE1572_8806	hypothetical protein	-		0	
SCE1572_8807	hypothetical protein	-		0	
SCE1572_8808	membrane protein	-		0	
SCE1572_8809	cytochrome P460 precursor	-		0	
SCE1572_8810	RsbR, positive regulator of sigma-B	-		0	
SCE1572_8811	POSSIBLE TRANSPOSASE	bi	sce_2112	100	POSSIBLE TRANSPOSASE
SCE1572_8812	POSSIBLE TRANSPOSASE	bi	sce_2111	100	POSSIBLE TRANSPOSASE
SCE1572_8813	RsbR, positive regulator of sigma-B	uni	sce_6236	72.97	RsbR, positive regulator of sigma-B
SCE1572_8814	Kazal domain protein	bi	sce_2393	93.48	Kazal domain protein
SCE1572_8815	IS, phage, Tn; Transposon-related functions	bi	sce_7043	100	IS, phage, Tn; Transposon-related functions
SCE1572_8816	LysR family transcriptional regulator YnfL	bi	sce_9596	94.98	LysR family transcriptional regulator YnfL
SCE1572_8817	hypothetical protein	-		0	
SCE1572_8818	hypothetical protein	bi	sce_9597	90.31	hypothetical protein
SCE1572_8819	hypothetical protein	-		0	
SCE1572_8820	tetratricopeptide repeat domain protein	-		0	
SCE1572_8821	Transcriptional regulator, TetR family	-		0	
SCE1572_8822	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_4271	42.17	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_8823	hypothetical protein	-		0	
SCE1572_8824	hypothetical protein	uni	sce_2109	31.58	FIG01089134: hypothetical protein
SCE1572_8825	hypothetical protein	-		0	
SCE1572_8826	Integron integrase IntIPac	bi	sce_515	96.83	Integron integrase IntIPac
SCE1572_8827	hypothetical protein	uni	sce_513	80.65	FIG01087636: hypothetical protein
SCE1572_8828	DNA repair protein RadC	uni	sce_8398	92.89	DNA repair protein RadC
SCE1572_8829	transcriptional regulator, LysR family	-		0	
SCE1572_8830	Bll2291 protein	uni	sce_2641	37.21	Bll2291 protein
SCE1572_8831	hypothetical protein	bi	sce_9916	36.62	hypothetical protein
SCE1572_8832	putative DNA-binding regulatory protein	-		0	
SCE1572_8833	putative DNA-binding regulatory protein	uni	sce_2704	35.71	putative RNA polymerase sigma factor
SCE1572_8834	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins	uni	sce_5085	60.2	tolB protein precursor, periplasmic protein involved in the tonb-independent uptake of group A colicins
SCE1572_8835	hypothetical protein	uni	sce_5098	50.82	putative RTX family exoprotein
SCE1572_8836	hypothetical protein	-		0	
SCE1572_8837	hypothetical protein	uni	sce_6072	69.7	hypothetical protein
SCE1572_8838	POSSIBLE TRANSPOSASE	uni	sce_7501	87.76	hypothetical protein
SCE1572_8839	hypothetical protein	-		0	
SCE1572_8840	hypothetical protein	uni	sce_858	23.63	N-Acetyl-D-glucosamine ABC transport system, sugar-binding protein
SCE1572_8841	COG0642: Signal transduction histidine kinase	uni	sce_2158	47.33	Sensor protein
SCE1572_8842	two-component hybrid sensor and regulator	uni	sce_4465	55.97	RsbR, positive regulator of sigma-B
SCE1572_8843	hypothetical protein	-		0	
SCE1572_8844	metal dependent phosphohydrolase	bi	sce_2494	93.94	metal dependent phosphohydrolase
SCE1572_8845	Glycosyltransferase	bi	sce_7604	89.17	Glycosyltransferase
SCE1572_8846	FIG00804978: hypothetical protein	bi	sce_7605	85.76	FIG00804978: hypothetical protein
SCE1572_8847	hypothetical protein	-		0	
SCE1572_8848	Beta-xylosidase (EC 3.2.1.37)	bi	sce_7607	91.13	Beta-xylosidase (EC 3.2.1.37)
SCE1572_8849	Uncharacterized protein conserved in bacteria	bi	sce_7610	85.2	Uncharacterized protein conserved in bacteria
SCE1572_8850	hypothetical protein	bi	sce_7611	82.8	hypothetical protein
SCE1572_8851	hypothetical protein	-		0	
SCE1572_8852	hypothetical protein	bi	sce_7620	77.49	Cell division protein FtsK
SCE1572_8853	hypothetical protein	-		0	
SCE1572_8854	S1 RNA binding domain	bi	sce_7621	84.54	S1 RNA binding domain

SCE1572_8855	Non-specific DNA-binding protein Dps / Iron-binding ferritin-like antioxidant protein / Ferroxidase (EC 1.16.3.1)	bi	sce_7622	93.55	Non-specific DNA-binding protein Dps / Iron-binding ferritin-like antioxidant protein / Ferroxidase (EC 1.16.3.1)
SCE1572_8856	protein of unknown function DUF179	bi	sce_7624	94.44	hypothetical protein
SCE1572_8857	PTPS-like type 4	bi	sce_7625	90.44	PTPS-like type 4
SCE1572_8858	DNA helicase (Rad25 homolog)	bi	sce_7626	93.6	DNA helicase (Rad25 homolog)
SCE1572_8859	Hypothetical protein (associated with DNA helicase - Rad25 homolog)	bi	sce_7627	94.62	Hypothetical protein (associated with DNA helicase - Rad25 homolog)
SCE1572_8860	hypothetical protein	-		0	
SCE1572_8861	YD repeat protein	uni	sce_7815	47.21	wall-associated protein
SCE1572_8862	hypothetical protein	-		0	
SCE1572_8863	FIG01089478: hypothetical protein	uni	sce_7516	43.29	FIG01089478: hypothetical protein
SCE1572_8864	hypothetical protein	-		0	
SCE1572_8865	hypothetical protein	bi	sce_6039	80.86	hypothetical protein
SCE1572_8866	Multi antimicrobial extrusion protein (Na()/drug antiporter), MATE family of MDR efflux pumps	bi	sce_6040	80.57	Multi antimicrobial extrusion protein (Na()/drug antiporter), MATE family of MDR efflux pumps
SCE1572_8867	transcriptional regulator, LysR family	uni	sce_6853	30.86	Transcriptional regulator, LysR family
SCE1572_8868	Putative transport protein	uni	sce_1251	31.21	drug resistance transporter, EmrB/QacA family
SCE1572_8869	Phosphoesterase PHP, N-terminal precursor	bi	sce_7628	83.33	Phosphoesterase PHP, N-terminal precursor
SCE1572_8870	hypothetical protein	uni	sce_9036	37.8	200 kDa antigen p200, putative
SCE1572_8871	Magnesium and cobalt transport protein CorA	bi	sce_7630	90.1	Magnesium and cobalt transport protein CorA
SCE1572_8872	FIG01085382: hypothetical protein	bi	sce_7631	69.2	FIG01085382: hypothetical protein
SCE1572_8873	FIG01085954: hypothetical protein	bi	sce_1062	80.37	FIG01085954: hypothetical protein
SCE1572_8874	hypothetical protein	uni	sce_9653	58.89	hypothetical protein
SCE1572_8875	Serine/threonine protein kinase (EC 2.7.11.1)	-		0	
SCE1572_8876	Signal transduction histidine kinase CheA (EC 2.7.3.-)	uni	sce_7661	47.1	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_8877	Serine/threonine protein kinase (EC 2.7.11.1)	-		0	
SCE1572_8878	RNA polymerase sigma factor SigW	bi	sce_7515	62.65	RNA polymerase sigma factor SigW
SCE1572_8879	hypothetical protein	bi	sce_6813	70.09	hypothetical protein
SCE1572_8880	Collagen triple helix repeat	bi	sce_7519	79.05	PE-PGRS family protein
SCE1572_8881	hypothetical protein	uni	sce_6868	75.65	hypothetical protein
SCE1572_8882	hypothetical protein	-		0	
SCE1572_8883	hypothetical protein	bi	sce_10354	67.21	hypothetical protein
SCE1572_8884	FIG01089660: hypothetical protein	uni	sce_4330	69.7	FIG01089660: hypothetical protein
SCE1572_8885	hypothetical protein	uni	sce_3287	42.59	GTP-binding protein EngA
SCE1572_8886	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_7657	88.94	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_8887	hypothetical protein	bi	sce_7658	82.3	hypothetical protein
SCE1572_8888	sigma54 specific transcriptional regulator, Fis family	bi	sce_7659	84.68	sigma-54 dependent response regulator
SCE1572_8889	putative cytochrome P450 hydroxylase	uni	sce_7075	49.35	putative cytochrome P450 hydroxylase
SCE1572_8890	Xylanase	uni	sce_1082	76.11	Xylanase
SCE1572_8891	Xylanase	bi	sce_1082	76.37	Xylanase
SCE1572_8892	Glutathione S-transferase (EC 2.5.1.18)	uni	sce_558	49.3	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_8893	hypothetical protein	-		0	
SCE1572_8894	Possible glucoamylase (Diverged) , 15 family	bi	sce_7664	81.77	Periplasmic alpha-amylase (EC 3.2.1.1)
SCE1572_8895	Putative oxidoreductase YncB	uni	sce_9276	46.49	Quinone oxidoreductase (EC 1.6.5.5)
SCE1572_8896	FIG01088760: hypothetical protein	bi	sce_7666	81.99	FIG01088760: hypothetical protein
SCE1572_8897	FIG01085006: hypothetical protein	bi	sce_7673	72.11	FIG01085006: hypothetical protein
SCE1572_8898	peptidase M16-like	uni	sce_2304	57.26	peptidase M16-like
SCE1572_8899	hypothetical protein	-		0	
SCE1572_8900	D-alanine--D-alanine ligase (EC 6.3.2.4)	bi	sce_7675	95.82	D-alanine--D-alanine ligase (EC 6.3.2.4)
SCE1572_8901	ATP-dependent DNA ligase (EC 6.5.1.1) LigC	bi	sce_7677	82.39	ATP-dependent DNA ligase (EC 6.5.1.1) LigC
SCE1572_8902	conserved hypothetical protein	uni	sce_3000	58.59	conserved hypothetical protein
SCE1572_8903	Possible glucoamylase (Diverged) , 15 family	uni	sce_7119	52.44	hypothetical protein
SCE1572_8904	AfsR-like regulatory protein	bi	sce_7678	89.26	transcriptional regulator, winged helix family
SCE1572_8905	hypothetical protein	bi	sce_7689	81.82	FIG01085226: hypothetical protein
SCE1572_8906	hypothetical protein	uni	sce_9963	51.52	hypothetical protein
SCE1572_8907	hypothetical protein	uni	sce_7691	60.22	FIG01089506: hypothetical protein
SCE1572_8908	hypothetical protein	uni	sce_10330	33.67	hypothetical protein
SCE1572_8909	FIG01089506: hypothetical protein	bi	sce_7691	66.32	FIG01089506: hypothetical protein
SCE1572_8910	hypothetical protein	bi	sce_7692	74.1	hypothetical protein
SCE1572_8911	predicted protein	bi	sce_7695	76.45	predicted protein
SCE1572_8912	hypothetical protein	-		0	
SCE1572_8913	response regulator	uni	sce_6723	42.97	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_8914	hypothetical protein	bi	sce_7696	89.01	FIG01087243: hypothetical protein
SCE1572_8915	hypothetical protein	uni	sce_283	39.53	Endoribonuclease L-PSP
SCE1572_8916	Arsenate reductase (EC 1.20.4.1)	uni	sce_6285	82.86	Arsenate reductase (EC 1.20.4.1)
SCE1572_8917	Aquaporin Z	bi	sce_6286	93.25	Aquaporin Z
SCE1572_8918	Lactoylglutathione lyase (EC 4.4.1.5) @ Cadmium-induced protein CadI	bi	sce_6287	88.54	Lactoylglutathione lyase (EC 4.4.1.5) @ Cadmium-induced protein CadI
SCE1572_8919	Transcriptional regulator, ArsR family	bi	sce_6288	82.18	Transcriptional regulator, ArsR family
SCE1572_8920	hypothetical protein	bi	sce_864	81.18	hypothetical protein
SCE1572_8921	hypothetical protein	uni	sce_7697	89.47	Predicted enzyme of the cupin superfamily
SCE1572_8922	FIG01088601: hypothetical protein	bi	sce_4283	66.32	FIG01085391: hypothetical protein
SCE1572_8923	Hydroxylamine reductase (EC 1.7.-.-)	uni	sce_866	81.73	Hydroxylamine reductase (EC 1.7.-.-)
SCE1572_8924	hypothetical protein	-		0	
SCE1572_8925	Asr1714 protein	uni	sce_7697	89.47	Predicted enzyme of the cupin superfamily
SCE1572_8926	Collagen alpha 1(I) chain precursor	uni	sce_4283	66.32	FIG01085391: hypothetical protein
SCE1572_8927	Hydroxylamine reductase (EC 1.7.-.-)	uni	sce_866	81.73	Hydroxylamine reductase (EC 1.7.-.-)
SCE1572_8928	hypothetical protein	-		0	
SCE1572_8929	Predicted enzyme of the cupin superfamily	bi	sce_7697	94.62	Predicted enzyme of the cupin superfamily
SCE1572_8930	ATP-dependent DNA helicase recG (EC 3.6.1.-)	-		0	
SCE1572_8931	nucleotidyltransferase domain protein	bi	sce_7698	87.33	nucleotidyltransferase domain protein
SCE1572_8932	5-Enolpyruvylshikimate-3-phosphate synthase (EC 2.5.1.19)	bi	sce_7699	91.76	5-Enolpyruvylshikimate-3-phosphate synthase (EC 2.5.1.19)
SCE1572_8933	Cytidylate kinase (EC 2.7.4.14)	bi	sce_7700	83.87	Cytidylate kinase (EC 2.7.4.14)
SCE1572_8934	hypothetical protein	bi	sce_7701	80.3	hypothetical protein
SCE1572_8935	FIG01086947: hypothetical protein	bi	sce_7702	75.88	FIG01086947: hypothetical protein
SCE1572_8936	hypothetical protein	-		0	
SCE1572_8937	SSU ribosomal protein S1p	bi	sce_7703	98.44	SSU ribosomal protein S1p
SCE1572_8938	Putative lipoprotein	bi	sce_7704	81.72	Putative lipoprotein
SCE1572_8939	HIT family protein	bi	sce_7705	93.3	histidine triad (HIT) protein
SCE1572_8940	UPF0118 membrane protein YrrI	bi	sce_7706	86.15	UPF0118 membrane protein YrrI
SCE1572_8941	hypothetical protein	bi	sce_7708	94.92	hypothetical protein
SCE1572_8942	hypothetical protein	bi	sce_7709	88.01	hypothetical protein
SCE1572_8943	Histidine triad (HIT) nucleotide-binding protein, similarity with At5g48545 and yeast YDL125C (HNT1)	bi	sce_7710	82.46	Histidine triad (HIT) nucleotide-binding protein, similarity with At5g48545 and yeast YDL125C (HNT1)
SCE1572_8944	hypothetical protein	-		0	
SCE1572_8945	Carbonic anhydrase (EC 4.2.1.1)	bi	sce_7712	90.05	Carbonic anhydrase (EC 4.2.1.1)
SCE1572_8946	Carbonic anhydrase (EC 4.2.1.1)	bi	sce_7713	88.81	Carbonic anhydrase (EC 4.2.1.1)
SCE1572_8947	putative oxidoreductase	bi	sce_7714	82.77	putative oxidoreductase
SCE1572_8948	FIG01088741: hypothetical protein	bi	sce_7715	79.52	FIG01088741: hypothetical protein
SCE1572_8949	Type II/IV secretion system secretin RcpA/CpaC, associated with Flp pilus assembly	bi	sce_7717	74.36	Type II/IV secretion system secretin RcpA/CpaC, associated with Flp pilus assembly
SCE1572_8950	hypothetical protein	uni	sce_5999	28.67	FIG01088071: hypothetical protein
SCE1572_8951	hypothetical protein	-		0	
SCE1572_8952	FIG01084939: hypothetical protein	bi	sce_7718	72.9	FIG01084939: hypothetical protein
SCE1572_8953	putative lipoprotein	uni	sce_7719	42.95	Cellulase(EC:3.2.1.4)
SCE1572_8954	serine/threonine protein kinase	bi	sce_7720	67.51	serine/threonine protein kinase
SCE1572_8955	hypothetical protein	-		0	
SCE1572_8956	hypothetical protein	-		0	
SCE1572_8957	Two-component system regulatory protein	uni	sce_5675	51.38	Two-component system regulatory protein
SCE1572_8958	FIG01087134: hypothetical protein	bi	sce_7721	87.24	FIG01087134: hypothetical protein
SCE1572_8959	hypothetical protein	-		0	
SCE1572_8960	phenazine biosynthesis protein PhzF family	-		0	
SCE1572_8961	hypothetical protein	bi	sce_2361	34.88	FIG100068: Hypothetical protein
SCE1572_8962	OB-fold nucleic acid binding domain protein	bi	sce_309	80	hypothetical protein
SCE1572_8963	hypothetical protein	bi	sce_7725	90.59	hypothetical protein
SCE1572_8964	FIG01085229: hypothetical protein	bi	sce_7726	90.67	FIG01085229: hypothetical protein
SCE1572_8965	hypothetical protein	bi	sce_7727	91.76	hypothetical protein
SCE1572_8966	Gll0726 protein	uni	sce_4880	80.74	Gll0726 protein
SCE1572_8967	phosphotransferase (aminonucleoside antibiotic resistance)	-		0	
SCE1572_8968	protein kinase domain	bi	sce_7729	83.35	eukaryotic-type protein kinase
SCE1572_8969	Enoyl-CoA hydratase (EC 4.2.1.17)	bi	sce_7730	87.65	Enoyl-CoA hydratase (EC 4.2.1.17)
SCE1572_8970	Ribosomal protein S6 glutaminyl transferase	bi	sce_7731	97.29	Ribosomal protein S6 glutaminyl transferase
SCE1572_8971	Isovaleryl-CoA dehydrogenase (EC 1.3.99.10)	bi	sce_7733	94.6	Isovaleryl-CoA dehydrogenase (EC 1.3.99.10)
SCE1572_8972	hypothetical protein	uni	sce_4338	37.2	hypothetical protein
SCE1572_8973	Outer membrane vitamin B12 receptor BtuB	uni	sce_4339	38.98	Outer membrane vitamin B12 receptor BtuB
SCE1572_8974	putative lipoprotein	uni	sce_4980	55.56	Epstein-Barr nuclear antigen 1 (EBV nuclear antigen 1) (EBNA-1)
SCE1572_8975	Nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferase (EC 2.4.2.21)	bi	sce_7734	89.2	Nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferase (EC 2.4.2.21)
SCE1572_8976	Cobalamin synthase	bi	sce_7735	84.25	Cobalamin synthase
SCE1572_8977	Alpha-ribazole-5'-phosphate phosphatase (EC 3.1.3.73)	bi	sce_7736	76.92	Alpha-ribazole-5'-phosphate phosphatase (EC 3.1.3.73)
SCE1572_8978	Agmatinase (EC 3.5.3.11)	bi	sce_7737	93.37	Agmatinase (EC 3.5.3.11)
SCE1572_8979	Thiosulfate sulfurtransferase, rhodanese (EC 2.8.1.1)	bi	sce_7738	86.05	Thiosulfate sulfurtransferase, rhodanese (EC 2.8.1.1)
SCE1572_8980	Mll0646 protein	bi	sce_10099	75	hypothetical protein, mmyy
SCE1572_8981	hypothetical protein	uni	sce_7083	59.46	hypothetical protein
SCE1572_8982	hypothetical protein	-		0	
SCE1572_8983	hypothetical protein	-		0	
SCE1572_8984	Bipolar DNA helicase	bi	sce_7750	80.52	Bipolar DNA helicase
SCE1572_8985	FIG01086453: hypothetical protein	uni	sce_1227	63.35	FIG01086453: hypothetical protein
SCE1572_8986	hypothetical protein	-		0	
SCE1572_8987	Probable serine/threonine-protein kinase pknJ (EC 2.7.11.1)	bi	sce_7751	73.48	Probable serine/threonine-protein kinase pknJ (EC 2.7.11.1)
SCE1572_8988	hypothetical protein	-		0	
SCE1572_8989	hypothetical protein	bi	sce_7752	92.31	hypothetical protein
SCE1572_8990	FIG00840272: hypothetical protein	bi	sce_7753	83.07	FIG00840272: hypothetical protein
SCE1572_8991	hypothetical protein	bi	sce_7756	89.01	hypothetical protein
SCE1572_8992	hypothetical protein	bi	sce_7757	94.81	hypothetical protein
SCE1572_8993	Cytochrome c-type biogenesis protein DsbD, protein-disulfide reductase (EC 1.8.1.8)	bi	sce_7758	88.63	Cytochrome c-type biogenesis protein DsbD, protein-disulfide reductase (EC 1.8.1.8)
SCE1572_8994	hypothetical protein	bi	sce_7759	79.03	hypothetical protein
SCE1572_8995	putative exported protein of unknown function with OmpA family domain	bi	sce_7760	83.04	HYpothetical protein
SCE1572_8996	UDP-N-acetylglucosamine 1-carboxyvinyltransferase (EC 2.5.1.7)	bi	sce_7761	58.38	serine/threonine protein kinase
SCE1572_8997	Riboflavin kinase (EC 2.7.1.26) / FMN adenylyltransferase (EC 2.7.7.2)	bi	sce_7762	92.49	Riboflavin kinase (EC 2.7.1.26) / FMN adenylyltransferase (EC 2.7.7.2)
SCE1572_8998	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1)	bi	sce_7763	98.41	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1)
SCE1572_8999	LSU ribosomal protein L25p	bi	sce_7764	92.17	LSU ribosomal protein L25p
SCE1572_9000	Peptidyl-tRNA hydrolase (EC 3.1.1.29)	bi	sce_7765	93.27	Peptidyl-tRNA hydrolase (EC 3.1.1.29)
SCE1572_9001	SSU ribosomal protein S6p	bi	sce_7766	91.62	SSU ribosomal protein S6p
SCE1572_9002	SSU ribosomal protein S18p	bi	sce_7767	100	SSU ribosomal protein S18p
SCE1572_9003	LSU ribosomal protein L9p	bi	sce_7768	94.67	LSU ribosomal protein L9p
SCE1572_9004	2-keto-3-deoxy-gluconate kinase	bi	sce_7769	84.36	2-keto-3-deoxy-gluconate kinase
SCE1572_9005	hypothetical protein	bi	sce_7770	74.19	hypothetical protein
SCE1572_9006	Replicative DNA helicase (EC 3.6.1.-)	bi	sce_7771	96.6	Replicative DNA helicase (EC 3.6.1.-)
SCE1572_9007	protein of unknown function DUF6, transmembrane	bi	sce_7772	78.91	hypothetical protein
SCE1572_9008	FIG01086555: hypothetical protein	bi	sce_7773	79.78	FIG01086555: hypothetical protein
SCE1572_9009	hypothetical protein	-		0	
SCE1572_9010	hypothetical protein	-		0	
SCE1572_9011	hypothetical protein	uni	sce_6904	83.16	FIG01089354: hypothetical protein
SCE1572_9012	FIG01089060: hypothetical protein	bi	sce_7774	86.28	FIG01089060: hypothetical protein
SCE1572_9013	hypothetical protein	-		0	
SCE1572_9014	hypothetical protein	-		0	
SCE1572_9015	hypothetical protein	-		0	
SCE1572_9016	hypothetical protein	-		0	
SCE1572_9017	hypothetical protein	-		0	
SCE1572_9018	putative transposase	-		0	

SCE1572_9019	hypothetical protein	-		0	
SCE1572_9020	hypothetical protein	-		0	
SCE1572_9021	COG0009 Sua5 subfamily, required for N6-threonylcarbamoyl adenosine t(6)A37 modification in tRNA	bi	sce_7776	88.69	COG0009 Sua5 subfamily, required for N6-threonylcarbamoyl adenosine t(6)A37 modification in tRNA
SCE1572_9022	putative exported protein	bi	sce_7777	82.13	Ribonuclease E (EC 3.1.26.12)
SCE1572_9023	Serine protein kinase (prkA protein), P-loop containing	bi	sce_7778	99.26	Serine protein kinase (prkA protein), P-loop containing
SCE1572_9024	hypothetical protein	bi	sce_7779	91.86	hypothetical protein
SCE1572_9025	putative protein phosphatase	bi	sce_7780	97.21	putative protein phosphatase
SCE1572_9026	FIG01085338: hypothetical protein	bi	sce_7781	84.08	FIG01085338: hypothetical protein
SCE1572_9027	serine/threonine protein kinase	bi	sce_7782	82.34	serine/threonine protein kinase
SCE1572_9028	ABC transporter, ATP-binding protein	bi	sce_7783	86.45	ABC transporter, ATP-binding protein
SCE1572_9029	protein of unknown function DUF990	bi	sce_7784	86.57	protein of unknown function DUF990
SCE1572_9030	ABC transporter permease protein	bi	sce_7785	89.27	ABC transporter permease protein
SCE1572_9031	FIG00502110: hypothetical protein	bi	sce_7786	76.09	FIG00502110: hypothetical protein
SCE1572_9032	AAA ATPase	uni	sce_7361	73.57	AAA ATPase
SCE1572_9033	Transcriptional regulator, LysR family	bi	sce_7791	85.91	Transcriptional regulator, LysR family
SCE1572_9034	Glutathione S-transferase, unnamed subgroup (EC 2.5.1.18)	bi	sce_7792	82.84	Glutathione S-transferase, unnamed subgroup (EC 2.5.1.18)
SCE1572_9035	probable iron-sulfur binding protein YPO1417	bi	sce_7793	83.71	probable iron-sulfur binding protein YPO1417
SCE1572_9036	sensor histidine kinase	bi	sce_7794	86.99	sensor histidine kinase
SCE1572_9037	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_7796	92.81	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_9038	Acetoacetate metabolism regulatory protein atoC (Ornithine/arginine decarboxylase inhibitor) (Ornithine decarboxylase antizy	bi	sce_7798	83.33	Acetoacetate metabolism regulatory protein atoC (Ornithine/arginine decarboxylase inhibitor) (Ornithine decarboxylase antizyme)
SCE1572_9039	C3: similar to Vanillate O-demethylase oxygenase	bi	sce_7799	86.8	C3: similar to Vanillate O-demethylase oxygenase
SCE1572_9040	Transcriptional regulator, AraC family	bi	sce_7800	85.47	Transcriptional regulator, AraC family
SCE1572_9041	Prion-like-(Q/n-rich)-domain-bearing protein protein 54	bi	sce_7801	81.93	Prion-like-(Q/n-rich)-domain-bearing protein protein 54
SCE1572_9042	Pathogenesis-related protein 1A precursor (PR-1A)	bi	sce_7802	79.14	Pathogenesis-related protein 1A precursor (PR-1A)
SCE1572_9043	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	bi	sce_7804	89.18	Butyryl-CoA dehydrogenase (EC 1.3.99.2)
SCE1572_9044	Oligopeptidase A (EC 3.4.24.70)	bi	sce_7805	92.69	Oligopeptidase A (EC 3.4.24.70)
SCE1572_9045	Bll2291 protein	uni	sce_2641	31.74	Bll2291 protein
SCE1572_9046	Putative peptidoglycan bound protein (LPXTG motif) Lmo1799 homolog	bi	sce_7806	75.35	Putative peptidoglycan bound protein (LPXTG motif) Lmo1799 homolog
SCE1572_9047	hypothetical protein	bi	sce_7807	96.55	hypothetical protein
SCE1572_9048	hypothetical protein	bi	sce_7808	95.41	hypothetical protein
SCE1572_9049	putative inner membrane protein	bi	sce_7809	77.11	FIG01085454: hypothetical protein
SCE1572_9050	5-formyltetrahydrofolate cyclo-ligase (EC 6.3.3.2)	bi	sce_7810	91.54	5-formyltetrahydrofolate cyclo-ligase (EC 6.3.3.2)
SCE1572_9051	Large-conductance mechanosensitive channel	bi	sce_7812	88.59	Large-conductance mechanosensitive channel
SCE1572_9052	YD repeat protein	bi	sce_7816	89.19	YD repeat protein
SCE1572_9053	YD repeat protein	bi	sce_7814	85.68	RhsD protein
SCE1572_9054	Rhs family protein	uni	sce_7818	77.86	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_9055	FIG01089649: hypothetical protein	bi	sce_7819	81.34	FIG01089649: hypothetical protein
SCE1572_9056	Na-Ca exchanger/integrin-beta4	bi	sce_4532	41.06	hypothetical protein
SCE1572_9057	hypothetical protein	-		0	
SCE1572_9058	conserved hypothetical protein	uni	sce_3992	37.25	S-layer-like array protein
SCE1572_9059	hypothetical protein	uni	sce_3991	33.08	serine/threonine protein kinase
SCE1572_9060	High-affnity carbon uptake protein Hat/HatR	uni	sce_8704	35.16	WD-40 repeat protein
SCE1572_9061	hypothetical protein	uni	sce_2126	58.33	Conserved domain protein
SCE1572_9062	S-layer-like array protein	uni	sce_3992	33.66	S-layer-like array protein
SCE1572_9063	hypothetical protein	-		0	
SCE1572_9064	VCBS	uni	sce_4532	40.38	hypothetical protein
SCE1572_9065	Adenylate cyclase (EC 4.6.1.1)	bi	sce_7821	91.84	Adenylate cyclase (EC 4.6.1.1)
SCE1572_9066	Glucan endo-1,3-beta-glucosidase A1 ((1->3)-beta-glucan endohydrolase) ((1->3)-beta-glucanase A1) (EC 3.2.1.39)	uni	sce_1518	28.38	FIG01087054: hypothetical protein
SCE1572_9067	hypothetical protein	bi	sce_7822	89.3	hypothetical protein
SCE1572_9068	major facilitator superfamily MFS_1	bi	sce_7823	83.73	multidrug efflux protein
SCE1572_9069	Dolichyl-phosphate mannose synthase related protein	bi	sce_7824	89.89	glycosyltransferase
SCE1572_9070	hypothetical protein	bi	sce_7825	91.98	hypothetical protein
SCE1572_9071	Cytochrome c551 peroxidase (EC 1.11.1.5)	bi	sce_7827	83.05	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_9072	FIG01088064: hypothetical protein	bi	sce_7828	95.22	FIG01088064: hypothetical protein
SCE1572_9073	Internalin-like protein (LPXTG motif) Lmo0333 homolog	bi	sce_7385	60.22	Internalin-like protein (LPXTG motif) Lmo0333 homolog
SCE1572_9074	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	bi	sce_7837	91.12	Sulfatase modifying factor 2 precursor (C-alpha-formyglycine- generating enzyme 2)
SCE1572_9075	WD-40 repeat protein	bi	sce_3793	77.2	WD-40 repeat protein
SCE1572_9076	hypothetical protein	uni	sce_3796	59.74	hypothetical protein
SCE1572_9077	hypothetical protein	bi	sce_2024	81.58	hypothetical protein
SCE1572_9078	COG3005: Nitrate/TMAO reductases, membrane-bound tetraheme cytochrome c subunit	bi	sce_2025	92.65	cytochrome c family protein
SCE1572_9079	hypothetical protein	-		0	
SCE1572_9080	Similarities with tr|Q12218 Saccharomyces cerevisiae YOR009w	uni	sce_8998	44.36	FIG01088552: hypothetical protein
SCE1572_9081	hypothetical protein	uni	sce_8997	36.55	hypothetical protein
SCE1572_9082	Peptide chain release factor homolog	bi	sce_7846	89.25	Peptide chain release factor homolog
SCE1572_9083	Protein with similarity to RtcB	bi	sce_7847	92.46	Protein with similarity to RtcB
SCE1572_9084	nitrogen fixation positive regulatory protein	bi	sce_7849	90.87	sigma-54 dependent DNA-binding response regulator
SCE1572_9085	hypothetical protein	uni	sce_3767	38.67	hypothetical protein
SCE1572_9086	hypothetical protein	-		0	
SCE1572_9087	Threonine dehydrogenase and related Zn-dependent dehydrogenases	bi	sce_7850	88.77	Threonine dehydrogenase and related Zn-dependent dehydrogenases
SCE1572_9088	hypothetical protein	uni	sce_7851	77.05	hypothetical protein
SCE1572_9089	Cytochrome c Snr1	bi	sce_7867	89.29	Cytochrome c Snr1
SCE1572_9090	nuclease (SNase-like)	bi	sce_7869	79.1	Micrococcal nuclease(EC:3.1.31.1)
SCE1572_9091	hypothetical protein	uni	sce_3858	34.19	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_9092	FIG01086277: hypothetical protein	bi	sce_7876	85.84	FIG01086277: hypothetical protein
SCE1572_9093	FIG01088782: hypothetical protein	bi	sce_7877	73.13	FIG01088782: hypothetical protein
SCE1572_9094	FIG01085916: hypothetical protein	bi	sce_7878	83.61	FIG01085916: hypothetical protein
SCE1572_9095	Dienelactone hydrolase family	bi	sce_7879	88.67	Dienelactone hydrolase family
SCE1572_9096	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY	bi	sce_7880	85.19	Chemotaxis regulator - transmits chemoreceptor signals to flagelllar motor components CheY
SCE1572_9097	hypothetical protein	uni	sce_709	40.85	OmpA/MotB domain protein
SCE1572_9098	hypothetical protein	uni	sce_1120	31.09	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_9099	EBNA-1	bi	sce_7886	72.53	Gll0995 protein
SCE1572_9100	Protocatechuate 3,4-Dioxygenase beta chain (EC 1.13.11.3)	bi	sce_7882	59.87	Protocatechuate 3,4-Dioxygenase beta chain (EC 1.13.11.3)
SCE1572_9101	Diaminopimelate decarboxylase (EC 4.1.1.20)	bi	sce_7883	89.93	Diaminopimelate decarboxylase (EC 4.1.1.20)
SCE1572_9102	hypothetical protein	-		0	
SCE1572_9103	5'-nucleotidase (EC 3.1.3.5)	bi	sce_7884	86.67	5'-nucleotidase (EC 3.1.3.5)
SCE1572_9104	FIG01089636: hypothetical protein	bi	sce_7887	81.74	FIG01089636: hypothetical protein
SCE1572_9105	Chorismate mutase I (EC 5.4.99.5) / Prephenate dehydratase (EC 4.2.1.51)	bi	sce_7888	93.46	Chorismate mutase I (EC 5.4.99.5) / Prephenate dehydratase (EC 4.2.1.51)
SCE1572_9106	hypothetical protein	-		0	
SCE1572_9107	ECF subfamily sigma subunit	bi	sce_7889	77.92	ECF subfamily sigma subunit
SCE1572_9108	Transcriptional regulator, Cro/CI family	bi	sce_7890	93.84	Transcriptional regulator, Cro/CI family
SCE1572_9109	FIG01085414: hypothetical protein	bi	sce_7891	88.48	FIG01085414: hypothetical protein
SCE1572_9110	Helicase PriA essential for oriC/DnaA-independent DNA replication	bi	sce_7892	90.94	Helicase PriA essential for oriC/DnaA-independent DNA replication
SCE1572_9111	Ferredoxin, 2Fe-2S	bi	sce_7893	89.45	Ferredoxin, 2Fe-2S
SCE1572_9112	Serine/threonine kinase PKN11	bi	sce_7894	81.02	Serine/threonine kinase PKN11
SCE1572_9113	Vitamin B12 ABC transporter, B12-binding component BtuF	bi	sce_7895	86.83	Vitamin B12 ABC transporter, B12-binding component BtuF
SCE1572_9114	hypothetical protein	bi	sce_7896	90.91	hypothetical protein
SCE1572_9115	FIG01088646: hypothetical protein	bi	sce_7897	100	FIG01088646: hypothetical protein
SCE1572_9116	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_7898	95.84	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_9117	Glycerol-3-phosphate transporter	bi	sce_7899	90.75	Glycerol-3-phosphate transporter
SCE1572_9118	Proline-rich protein	uni	sce_6423	54.94	Proline-rich protein
SCE1572_9119	putative multi-domain protein	-		0	
SCE1572_9120	hypothetical protein	-		0	
SCE1572_9121	hypothetical protein	-		0	
SCE1572_9122	Putative ATP/GTP-binding protein	uni	sce_9664	26.21	Serine/threonine protein kinase (EC 2.7.11.1)
SCE1572_9123	FIG01088065: hypothetical protein	bi	sce_7901	92.02	FIG01088065: hypothetical protein
SCE1572_9124	hypothetical protein	bi	sce_7902	91.03	hypothetical protein
SCE1572_9125	FIG01088131: hypothetical protein	bi	sce_7903	88.2	FIG01088131: hypothetical protein
SCE1572_9126	hypothetical protein	bi	sce_7904	75	hypothetical protein
SCE1572_9127	Chromosome (plasmid) partitioning protein ParA / Sporulation initiation inhibitor protein Soj	bi	sce_7905	94.42	Chromosome (plasmid) partitioning protein ParA / Sporulation initiation inhibitor protein Soj
SCE1572_9128	hypothetical protein	bi	sce_7906	90.91	hypothetical protein
SCE1572_9129	Outer membrane receptor proteins, mostly Fe transport	bi	sce_7907	82.19	Outer membrane receptor proteins, mostly Fe transport
SCE1572_9130	hypothetical protein	bi	sce_7908	69.41	hypothetical protein
SCE1572_9131	hypothetical protein	bi	sce_7909	59.89	hypothetical protein
SCE1572_9132	putative lipoprotein	bi	sce_7910	79.35	putative lipoprotein
SCE1572_9133	hypothetical protein	uni	sce_8647	48.51	Arylsulfatase (EC 3.1.6.1)
SCE1572_9134	Flagellar hook-length control protein FliK	bi	sce_7912	53.75	Flagellar hook-length control protein FliK
SCE1572_9135	FIG01088605: hypothetical protein	bi	sce_7913	55.11	serine/threonine protein kinase
SCE1572_9136	RNA polymerase sigma factor nccH	bi	sce_7914	92.52	RNA polymerase sigma factor nccH
SCE1572_9137	hypothetical protein	-		0	
SCE1572_9138	hypothetical protein	bi	sce_10329	80.65	hypothetical protein
SCE1572_9139	hypothetical protein	-		0	
SCE1572_9140	hypothetical protein	uni	sce_5088	40.69	hypothetical protein
SCE1572_9141	hypothetical protein	uni	sce_5924	48.56	FIG01087763: hypothetical protein
SCE1572_9142	FIG01085109: hypothetical protein	-		0	
SCE1572_9143	FIG01085109: hypothetical protein	uni	sce_3939	87.43	FIG01085109: hypothetical protein
SCE1572_9144	Ribosomal RNA small subunit methyltransferase E (EC 2.1.1.-)	bi	sce_7942	92.46	Ribosomal RNA small subunit methyltransferase E (EC 2.1.1.-)
SCE1572_9145	Ribosomal protein L11 methyltransferase (EC 2.1.1.-)	bi	sce_7943	92.74	Ribosomal protein L11 methyltransferase (EC 2.1.1.-)
SCE1572_9146	hypothetical protein	-		0	
SCE1572_9147	metallophosphoesterase	bi	sce_7944	97.4	predicted protein
SCE1572_9148	Glucose-1-phosphate adenylyltransferase (EC 2.7.7.27)	bi	sce_7945	98.28	Glucose-1-phosphate adenylyltransferase (EC 2.7.7.27)
SCE1572_9149	hypothetical protein	bi	sce_7946	94.21	hypothetical protein
SCE1572_9150	FIG01086998: hypothetical protein	bi	sce_7947	78.91	FIG01086998: hypothetical protein
SCE1572_9151	FIG01088345: hypothetical protein	bi	sce_7948	89.34	FIG01088345: hypothetical protein
SCE1572_9152	Chloride channel protein	bi	sce_7949	90.34	Chloride channel protein
SCE1572_9153	response regulator receiver protein	bi	sce_7951	97.42	response regulator
SCE1572_9154	Protein containing domains DUF404, DUF407	bi	sce_7952	93.17	Protein containing domains DUF404, DUF407
SCE1572_9155	Protein containing domains DUF403	bi	sce_7953	84.64	conserved hypothetical protein
SCE1572_9156	Protein containing transglutaminase-like domain, putative cysteine protease	bi	sce_7954	92.08	Protein containing transglutaminase-like domain, putative cysteine protease
SCE1572_9157	FIG01086465: hypothetical protein	bi	sce_7955	81.64	FIG01086465: hypothetical protein
SCE1572_9158	Thiol peroxidase, Bcp-type (EC 1.11.1.15)	bi	sce_7956	85.2	Thiol peroxidase, Bcp-type (EC 1.11.1.15)
SCE1572_9159	hypothetical protein	-		0	
SCE1572_9160	3-ketoacyl-CoA thiolase (EC 2.3.1.16) @ Acetyl-CoA acetyltransferase (EC 2.3.1.9)	bi	sce_7957	95.21	3-ketoacyl-CoA thiolase (EC 2.3.1.16) @ Acetyl-CoA acetyltransferase (EC 2.3.1.9)
SCE1572_9161	Metallo-beta-lactamase family protein	bi	sce_7958	80.97	Metallo-beta-lactamase family protein
SCE1572_9162	hypothetical protein	-		0	
SCE1572_9163	hypothetical protein	uni	sce_2576	32.05	hypothetical protein
SCE1572_9164	FIG01086577: hypothetical protein	uni	sce_1209	55.8	FIG01086577: hypothetical protein
SCE1572_9165	hypothetical protein	-		0	
SCE1572_9166	hypothetical protein	uni	sce_8406	33.11	hypothetical protein
SCE1572_9167	hypothetical protein	-		0	
SCE1572_9168	hypothetical protein	uni	sce_8407	31.11	hypothetical protein
SCE1572_9169	PE-PGRS FAMILY PROTEIN	uni	sce_10357	51.74	PE_PGRS family protein
SCE1572_9170	hypothetical protein	-		0	
SCE1572_9171	hypothetical protein	bi	sce_7098	78.89	RNA polymerase sigma factor SigW
SCE1572_9172	hypothetical protein	uni	sce_9480	47.97	hypothetical protein
SCE1572_9173	hypothetical protein	bi	sce_7964	92.31	hypothetical protein
SCE1572_9174	transcriptional regulator, LysR family	bi	sce_7965	92.67	transcriptional regulator, LysR family
SCE1572_9175	FIG01088750: hypothetical protein	bi	sce_7967	76.32	FIG01088750: hypothetical protein
SCE1572_9176	hypothetical protein	-		0	
SCE1572_9177	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_7969	85.78	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_9178	FIG01088228: hypothetical protein	uni	sce_2528	97.56	FIG01088228: hypothetical protein
SCE1572_9179	hypothetical protein-putative transmembrane protein	bi	sce_7971	72.77	Similarity
SCE1572_9180	hypothetical protein	-		0	
SCE1572_9181	Putative adhesin	bi	sce_7972	73.92	Putative adhesin
SCE1572_9182	Cyanophycinase (EC 3.4.15.6)	-		0	

SCE1572_9183	Cyanophycin synthase (EC 6.3.2.29)(EC 6.3.2.30)	uni	sce_1850	25.71	UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligase (EC 6.3.2.13)
SCE1572_9184	Cyanophycinase (EC 3.4.15.6)	-		0	
SCE1572_9185	hypothetical protein	bi	sce_7851	80	hypothetical protein
SCE1572_9186	hypothetical protein	-		0	
SCE1572_9187	Formamidopyrimidine-DNA glycosylase (EC 3.2.2.23)	bi	sce_7985	85.17	Formamidopyrimidine-DNA glycosylase (EC 3.2.2.23)
SCE1572_9188	FIG01087869: hypothetical protein	bi	sce_7986	76.05	FIG01087869: hypothetical protein
SCE1572_9189	rhamnogalacturonan acetylesterase	uni	sce_8647	43.48	Arylsulfatase (EC 3.1.6.1)
SCE1572_9190	Phytanoyl-CoA dioxygenase	bi	sce_7987	81.56	Phytanoyl-CoA dioxygenase
SCE1572_9191	hypothetical protein	bi	sce_7988	86.96	hypothetical protein
SCE1572_9192	ActD	bi	sce_7386	85.71	ActD
SCE1572_9193	hypothetical protein	bi	sce_7387	74.62	ActD
SCE1572_9194	RNA polymerase sigma-70 factor, group 3	bi	sce_7388	87.57	RNA polymerase sigma-70 factor, group 3
SCE1572_9195	hypothetical protein	bi	sce_7389	77.22	hypothetical protein
SCE1572_9196	RsbR, positive regulator of sigma-B	bi	sce_7990	79.47	RsbR, positive regulator of sigma-B
SCE1572_9197	FIG01089256: hypothetical protein	bi	sce_1285	60.61	FIG01089256: hypothetical protein
SCE1572_9198	transcriptional regulator, LysR family	bi	sce_7991	82.78	transcriptional regulator, LysR family
SCE1572_9199	NmrA-like	bi	sce_7992	88.47	NADPH:quinone oxidoreductase 2
SCE1572_9200	hypothetical protein	bi	sce_7998	68.52	hypothetical protein
SCE1572_9201	FIG01087827: hypothetical protein	uni	sce_7999	81.76	FIG01087792: hypothetical protein
SCE1572_9202	hypothetical protein	bi	sce_8000	89.12	hypothetical protein
SCE1572_9203	FIG01088267: hypothetical protein	bi	sce_8001	85.88	FIG01088267: hypothetical protein
SCE1572_9204	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)	bi	sce_8002	75.44	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_9205	FIG01088889: hypothetical protein	bi	sce_8003	88.83	FIG01088889: hypothetical protein
SCE1572_9206	FIG01085803: hypothetical protein	bi	sce_8004	83.25	FIG01085803: hypothetical protein
SCE1572_9207	FIG01086053: hypothetical protein	uni	sce_9398	80.7	FIG01086053: hypothetical protein
SCE1572_9208	hypothetical protein	-		0	
SCE1572_9209	Transcriptional regulatory protein RtcR	bi	sce_8010	90.94	Transcriptional regulatory protein RtcR
SCE1572_9210	RNA-2',3'-PO4:RNA-5'-OH ligase	bi	sce_8011	92.4	RNA-2',3'-PO4:RNA-5'-OH ligase
SCE1572_9211	RNA 3'-terminal phosphate cyclase (EC 6.5.1.4)	bi	sce_8012	92.04	RNA 3'-terminal phosphate cyclase (EC 6.5.1.4)
SCE1572_9212	Ornithine carbamoyltransferase (EC 2.1.3.3)	bi	sce_8013	92.28	Ornithine carbamoyltransferase (EC 2.1.3.3)
SCE1572_9213	transport-associated	uni	sce_5863	34.39	Single-stranded DNA-binding protein
SCE1572_9214	two-component hybrid sensor and regulator	bi	sce_8014	75.33	two-component hybrid sensor and regulator
SCE1572_9215	hypothetical protein	bi	sce_8015	89.73	hypothetical protein
SCE1572_9216	hypothetical protein	bi	sce_8016	81.01	hypothetical protein
SCE1572_9217	FIG01085014: hypothetical protein	bi	sce_8019	87.84	FIG01085014: hypothetical protein
SCE1572_9218	hypothetical protein	bi	sce_8021	81.63	hypothetical protein
SCE1572_9219	putative exported protein of unknown function with OmpA family domain	uni	sce_3858	37.17	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_9220	FIG01089013: hypothetical protein	bi	sce_8022	64.74	FIG01089013: hypothetical protein
SCE1572_9221	FIG01089013: hypothetical protein	-		0	
SCE1572_9222	FIG01088758: hypothetical protein	bi	sce_9351	72.87	FIG01088758: hypothetical protein
SCE1572_9223	FIG01087800: hypothetical protein	bi	sce_7616	95.27	FIG01087800: hypothetical protein
SCE1572_9224	PE-PGRS FAMILY PROTEIN	uni	sce_6815	69.42	PE-PGRS FAMILY PROTEIN
SCE1572_9225	hypothetical protein	-		0	
SCE1572_9226	hypothetical protein	uni	sce_6813	52.49	hypothetical protein
SCE1572_9227	RNA polymerase sigma factor SigW	uni	sce_6872	55.26	RNA polymerase sigma factor SigW
SCE1572_9228	hypothetical protein	-		0	
SCE1572_9229	hypothetical protein	-		0	
SCE1572_9230	kelch domain protein	uni	sce_9663	43.66	FIG01085909: hypothetical protein
SCE1572_9231	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)	uni	sce_7667	51.22	FIG01085006: hypothetical protein
SCE1572_9232	FIG01085006: hypothetical protein	-		0	
SCE1572_9233	Functional role page for Anaerobic nitric oxide reductase transcription regulator NorR	uni	sce_6530	49.82	Functional role page for Anaerobic nitric oxide reductase transcription regulator NorR
SCE1572_9234	FIG00840401: hypothetical protein	uni	sce_774	39.54	FIG01087003: hypothetical protein
SCE1572_9235	Dihydrolipoamide acetyltransferase	bi	sce_4668	53.6	hypothetical protein
SCE1572_9236	hypothetical protein	bi	sce_4669	42.86	FIG01089212: hypothetical protein
SCE1572_9237	hypothetical protein	-		0	
SCE1572_9238	hypothetical protein	-		0	
SCE1572_9239	hypothetical protein	-		0	
SCE1572_9240	hypothetical protein	uni	sce_8653	91.3	hypothetical protein
SCE1572_9241	hypothetical protein	-		0	
SCE1572_9242	hypothetical protein	-		0	
SCE1572_9243	hypothetical protein	-		0	
SCE1572_9244	hypothetical protein	-		0	
SCE1572_9245	Kazal domain protein	-		0	
SCE1572_9246	POSSIBLE TRANSPOSASE	uni	sce_2392	87.18	hypothetical protein
SCE1572_9247	major facilitator superfamily MFS_1	uni	sce_7011	34.77	Major facilitator superfamily MFS_1
SCE1572_9248	DNA double-strand break repair protein Mre11	bi	sce_8023	92.6	DNA double-strand break repair protein Mre11
SCE1572_9249	putative cytochrome P450 hydroxylase	bi	sce_8024	74.26	putative cytochrome P450 hydroxylase
SCE1572_9250	Putative glycogen debranching enzyme, archaeal type, TIGR01561	bi	sce_8026	90	Putative glycogen debranching enzyme, archaeal type, TIGR01561
SCE1572_9251	Malto-oligosyltrehalose trehalohydrolase (EC 3.2.1.141)	bi	sce_8027	89.01	Malto-oligosyltrehalose trehalohydrolase (EC 3.2.1.141)
SCE1572_9252	transport ATP-binding protein MsbA	bi	sce_8028	95.05	transport ATP-binding protein MsbA
SCE1572_9253	transport ATP-binding protein MsbA	uni	sce_8028	77.7	transport ATP-binding protein MsbA
SCE1572_9254	ABC transporter, ATP-binding protein	bi	sce_8029	84.64	ABC transporter, ATP-binding protein
SCE1572_9255	HlyD family secretion protein	bi	sce_8030	89.46	HlyD family secretion protein
SCE1572_9256	hypothetical protein	bi	sce_8032	64.94	hypothetical protein
SCE1572_9257	hypothetical protein	uni	sce_8032	64.1	hypothetical protein
SCE1572_9258	FIG01086237: hypothetical protein	bi	sce_8033	88.48	FIG01086237: hypothetical protein
SCE1572_9259	Integrase	bi	sce_8034	88.34	Integrase
SCE1572_9260	Chromosome partition protein smc	bi	sce_8035	87.68	Chromosome partition protein smc
SCE1572_9261	hypothetical protein	bi	sce_8039	81.4	FIG01088134: hypothetical protein
SCE1572_9262	Dihydroneopterin aldolase (EC 4.1.2.25)	bi	sce_8041	94.44	Dihydroneopterin aldolase (EC 4.1.2.25)
SCE1572_9263	FIG01086078: hypothetical protein	bi	sce_8042	87.25	FIG01086078: hypothetical protein
SCE1572_9264	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	bi	sce_8043	95.53	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases
SCE1572_9265	FIG01085033: hypothetical protein	bi	sce_8044	87.42	FIG01085033: hypothetical protein
SCE1572_9266	response regulator receiver	bi	sce_8047	85.53	Methyltransferase type 11
SCE1572_9267	hypothetical protein	bi	sce_8048	60.87	hypothetical protein
SCE1572_9268	FIG01086923: hypothetical protein	bi	sce_8049	82.08	FIG01086923: hypothetical protein
SCE1572_9269	FIG01087571: hypothetical protein	bi	sce_8050	77.91	FIG01087571: hypothetical protein
SCE1572_9270	hypothetical protein	-		0	
SCE1572_9271	GL13382 gene product from transcript GL13382-RA	bi	sce_8051	40.96	hypothetical protein
SCE1572_9272	Probable transcriptional regulator	bi	sce_8052	89.73	Probable transcriptional regulator
SCE1572_9273	serine/threonine protein kinase	bi	sce_8053	80.75	serine/threonine protein kinase
SCE1572_9274	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)	bi	sce_8054	82.3	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)
SCE1572_9275	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases	bi	sce_8055	93.98	cAMP-binding proteins - catabolite gene activator and regulatory subunit of cAMP-dependent protein kinases
SCE1572_9276	FIG01085335: hypothetical protein	bi	sce_8056	92.06	FIG01085335: hypothetical protein
SCE1572_9277	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_8057	90.06	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_9278	putative Fe-S oxidoreductase	bi	sce_8058	73.97	hypothetical protein
SCE1572_9279	conserved hypothetical protein	bi	sce_8059	77.33	hypothetical protein
SCE1572_9280	Glycoprotein gp2	bi	sce_8060	82.31	Glycoprotein gp2
SCE1572_9281	FIG01087898: hypothetical protein	bi	sce_8061	81.12	FIG01087898: hypothetical protein
SCE1572_9282	Gll1663 protein	bi	sce_8062	74.67	Gll1663 protein
SCE1572_9283	Zinc uptake regulation protein ZUR	bi	sce_8064	94.63	Zinc uptake regulation protein ZUR
SCE1572_9284	hypothetical protein	-		0	
SCE1572_9285	conserved hypothetical protein	bi	sce_8065	68.78	permease
SCE1572_9286	serine/threonine protein kinase	bi	sce_8067	89.75	serine/threonine protein kinase
SCE1572_9287	Glutamine synthetase type I (EC 6.3.1.2)	bi	sce_8068	94.68	Glutamine synthetase type I (EC 6.3.1.2)
SCE1572_9288	Nitrogen regulatory protein P-II	bi	sce_8069	99.11	Nitrogen regulatory protein P-II
SCE1572_9289	hypothetical protein	-		0	
SCE1572_9290	serine/threonine protein kinase	bi	sce_8070	90.55	serine/threonine protein kinase
SCE1572_9291	Ribosomal-protein-L7p-serine acetyltransferase	bi	sce_8071	96.86	Ribosomal-protein-L7p-serine acetyltransferase
SCE1572_9292	Two component sensor kinase	bi	sce_8072	86.45	Two component sensor kinase
SCE1572_9293	FIG01087721: hypothetical protein	bi	sce_8073	94.05	FIG01087721: hypothetical protein
SCE1572_9294	Holliday junction DNA helicase RuvB	bi	sce_8074	95.59	Holliday junction DNA helicase RuvB
SCE1572_9295	sensory transduction histidine kinase	bi	sce_8075	96.59	sensory transduction histidine kinase
SCE1572_9296	sensory box sensor histidine kinase	bi	sce_8076	88.86	sensory box sensor histidine kinase
SCE1572_9297	FIG01088088: hypothetical protein	bi	sce_8077	88.95	FIG01088088: hypothetical protein
SCE1572_9298	Putative mitochondrial protein, with 2 coiled coil-4 domains, of bilaterial origin, Nuclear Pore complex Protein NPP-11 (77.2 k	bi	sce_8078	80.91	Putative mitochondrial protein, with 2 coiled coil-4 domains, of bilaterial origin, Nuclear Pore complex Protein NPP-11 (77.2 kD) (n
SCE1572_9299	RNA polymerase sigma factor RpoE	bi	sce_8079	92.91	RNA polymerase sigma factor RpoE
SCE1572_9300	Serine protease precursor MucD/AlgY associated with sigma factor RpoE	bi	sce_8080	96.88	Serine protease precursor MucD/AlgY associated with sigma factor RpoE
SCE1572_9301	hypothetical protein	bi	sce_8081	93	hypothetical protein
SCE1572_9302	hypothetical protein	bi	sce_8082	84.21	hypothetical protein
SCE1572_9303	FKBP-type peptidyl-prolyl cis-trans isomerase SlyD (EC 5.2.1.8)	bi	sce_8083	83.94	FKBP-type peptidyl-prolyl cis-trans isomerase SlyD (EC 5.2.1.8)
SCE1572_9304	Macrolide-specific efflux protein MacA	bi	sce_8084	90.7	Macrolide-specific efflux protein MacA
SCE1572_9305	Macrolide export ATP-binding/permease protein MacB (EC 3.6.3.-)	bi	sce_8085	92.83	Macrolide export ATP-binding/permease protein MacB (EC 3.6.3.-)
SCE1572_9306	Cell division protein FtsX	bi	sce_8086	91.38	Cell division protein FtsX
SCE1572_9307	Cell division protein FtsX	bi	sce_8087	93.66	Cell division protein FtsX
SCE1572_9308	SSU ribosomal protein S1p	bi	sce_8088	90.52	SSU ribosomal protein S1p
SCE1572_9309	hypothetical protein	-		0	
SCE1572_9310	mrp protein	bi	sce_8089	96.17	Scaffold protein for [4Fe-4S] cluster assembly ApbC, MRP-like
SCE1572_9311	hypothetical protein	bi	sce_8090	76.81	hypothetical protein
SCE1572_9312	Thiol-disulfide oxidoreductase	bi	sce_8092	87.43	Thiol-disulfide oxidoreductase
SCE1572_9313	Thiol:disulfide oxidoreductase related to ResA	bi	sce_8093	91.91	Thiol:disulfide oxidoreductase related to ResA
SCE1572_9314	FIG01089261: hypothetical protein	bi	sce_8094	67.17	FIG01089261: hypothetical protein
SCE1572_9315	hypothetical protein	bi	sce_8095	81.32	probable tail fiber protein
SCE1572_9316	hypothetical protein	bi	sce_8096	85.89	hypothetical protein
SCE1572_9317	Fatty acid desaturase (EC 1.14.19.1); Delta-9 fatty acid desaturase (EC 1.14.19.1)	bi	sce_8097	93.69	Fatty acid desaturase (EC 1.14.19.1); Delta-9 fatty acid desaturase (EC 1.14.19.1)
SCE1572_9318	CTP synthase (EC 6.3.4.2)	bi	sce_8099	97.15	CTP synthase (EC 6.3.4.2)
SCE1572_9319	hypothetical protein	-		0	
SCE1572_9320	Fumarylacetoacetase (EC 3.7.1.2)	bi	sce_8101	86.01	Fumarylacetoacetase (EC 3.7.1.2)
SCE1572_9321	hypothetical protein	bi	sce_8102	84.38	hypothetical protein
SCE1572_9322	hypothetical protein	bi	sce_8103	84.75	hypothetical protein
SCE1572_9323	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)	bi	sce_8104	84.16	D-alanyl-D-alanine carboxypeptidase (EC 3.4.16.4)
SCE1572_9324	RNA polymerase sigma factor RpoD	bi	sce_8105	97.6	RNA polymerase sigma factor RpoD
SCE1572_9325	hypothetical protein	-		0	
SCE1572_9326	LSU ribosomal protein L20p	bi	sce_8106	96.64	LSU ribosomal protein L20p
SCE1572_9327	LSU ribosomal protein L35p	bi	sce_8107	98.46	LSU ribosomal protein L35p
SCE1572_9328	FIG01087985: hypothetical protein	bi	sce_8108	91.57	FIG01087985: hypothetical protein
SCE1572_9329	hypothetical protein	-		0	
SCE1572_9330	gliding motility protein MglA	bi	sce_8109	100	gliding motility protein MglA
SCE1572_9331	gliding motility protein MglA	bi	sce_8110	99.49	gliding motility protein MglA
SCE1572_9332	hypothetical protein	bi	sce_8111	100	hypothetical protein
SCE1572_9333	hypothetical protein	bi	sce_8112	80.1	hypothetical protein
SCE1572_9334	Alanine racemase (EC 5.1.1.1)	bi	sce_8113	94.13	Alanine racemase (EC 5.1.1.1)
SCE1572_9335	CglB	bi	sce_8114	83.33	CglB
SCE1572_9336	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)	bi	sce_8115	89.66	Ribosomal-protein-S18p-alanine acetyltransferase (EC 2.3.1.-)
SCE1572_9337	IcmF-related protein	bi	sce_8116	89.28	IcmF-related protein
SCE1572_9338	hypothetical protein	bi	sce_8117	86.5	hypothetical protein
SCE1572_9339	hypothetical protein	bi	sce_8118	84.69	hypothetical protein
SCE1572_9340	metallophosphoesterase	bi	sce_8119	98.68	Uncharacterized protein MJ0912
SCE1572_9341	S-adenosylmethionine (SAM) -dependent methyltransferase	bi	sce_8120	93.07	S-adenosylmethionine (SAM) -dependent methyltransferase
SCE1572_9342	DNA-directed RNA polymerase omega subunit (EC 2.7.7.6)	bi	sce_8121	98.67	DNA-directed RNA polymerase omega subunit (EC 2.7.7.6)
SCE1572_9343	Uridylate kinase (EC 2.7.4.-)	bi	sce_8123	98.81	Uridylate kinase (EC 2.7.4.-)
SCE1572_9344	Foldase protein PrsA precursor (EC 5.2.1.8)	bi	sce_8124	87.25	Foldase protein PrsA precursor (EC 5.2.1.8)
SCE1572_9345	lysine 2,3-aminomutase YodO family protein	bi	sce_8125	90.27	lysine 2,3-aminomutase YodO family protein
SCE1572_9346	serine/threonine protein kinase	bi	sce_8126	95.3	serine/threonine protein kinase

SCE1572_9347	hypothetical protein	uni	sce_2307	31.64	hypothetical protein
SCE1572_9348	Acetyl-coenzyme A carboxyl transferase alpha chain (EC 6.4.1.2) / Acetyl-coenzyme A carboxyl transferase beta chain (EC 6.	bi	sce_8128	92.86	Methylcrotonyl-CoA carboxylase carboxyl transferase subunit (EC 6.4.1.4)
SCE1572_9349	PE_PGRS family protein	bi	sce_8130	57.99	hypothetical protein
SCE1572_9350	Cytoplasmic axial filament protein CafA and Ribonuclease G (EC 3.1.4.-)	bi	sce_8131	85.28	Cytoplasmic axial filament protein CafA and Ribonuclease G (EC 3.1.4.-)
SCE1572_9351	FIG01088548: hypothetical protein	bi	sce_8132	96.58	FIG01088548: hypothetical protein
SCE1572_9352	Riboflavin synthase eubacterial/eukaryotic (EC 2.5.1.9)	bi	sce_8133	88.26	Riboflavin synthase eubacterial/eukaryotic (EC 2.5.1.9)
SCE1572_9353	3,4-dihydroxy-2-butanone 4-phosphate synthase (EC 4.1.99.12) / GTP cyclohydrolase II (EC 3.5.4.25)	bi	sce_8134	92.1	3,4-dihydroxy-2-butanone 4-phosphate synthase (EC 4.1.99.12) / GTP cyclohydrolase II (EC 3.5.4.25)
SCE1572_9354	6,7-dimethyl-8-ribityllumazine synthase (EC 2.5.1.78)	bi	sce_8135	96.45	6,7-dimethyl-8-ribityllumazine synthase (EC 2.5.1.78)
SCE1572_9355	Transcription termination protein NusB	bi	sce_8136	92.13	Transcription termination protein NusB
SCE1572_9356	Recombination inhibitory protein MutS2	bi	sce_8137	93.89	Recombination inhibitory protein MutS2
SCE1572_9357	Response regulatory protein	bi	sce_8138	97.07	sigma-54 dependent transcriptional regulator, Fis family
SCE1572_9358	PE_PGRS	bi	sce_8139	85.83	PE_PGRS
SCE1572_9359	Glycerol-3-phosphate dehydrogenase [NAD(P)] (EC 1.1.1.94)	bi	sce_8140	92.97	Glycerol-3-phosphate dehydrogenase [NAD(P)] (EC 1.1.1.94)
SCE1572_9360	hypothetical protein	bi	sce_8141	91.88	FIG01089057: hypothetical protein
SCE1572_9361	hypothetical protein	-		0	
SCE1572_9362	Signal peptidase I (EC 3.4.21.89)	bi	sce_8142	90.52	Signal peptidase I (EC 3.4.21.89)
SCE1572_9363	Circumsporozoite protein precursor (CS)	uni	sce_5794	43.82	RTX toxins and related Ca2温□ proteins
SCE1572_9364	L-threonine 3-dehydrogenase (EC 1.1.1.103)	bi	sce_8144	94.6	L-threonine 3-dehydrogenase (EC 1.1.1.103)
SCE1572_9365	2-amino-3-ketobutyrate coenzyme A ligase (EC 2.3.1.29)	bi	sce_8145	93.92	2-amino-3-ketobutyrate coenzyme A ligase (EC 2.3.1.29)
SCE1572_9366	hypothetical protein	bi	sce_8146	83.59	hypothetical protein
SCE1572_9367	hypothetical protein	bi	sce_8147	90.85	hypothetical protein
SCE1572_9368	FIG01088555: hypothetical protein	bi	sce_8148	78.31	FIG01088555: hypothetical protein
SCE1572_9369	hypothetical protein	bi	sce_8149	75.61	hypothetical protein
SCE1572_9370	hypothetical protein	bi	sce_8150	84.13	hypothetical protein
SCE1572_9371	hypothetical protein	bi	sce_8151	90.2	hypothetical protein
SCE1572_9372	endonuclease/exonuclease/phosphatase family protein	bi	sce_8152	88.14	endonuclease/exonuclease/phosphatase family protein
SCE1572_9373	hypothetical protein	bi	sce_8153	85.96	hypothetical protein
SCE1572_9374	polysaccharide deacetylase	bi	sce_8155	91.77	polysaccharide deacetylase
SCE1572_9375	hypothetical protein	-		0	
SCE1572_9376	hypothetical protein	bi	sce_8157	79.25	hypothetical protein
SCE1572_9377	Competence protein F homolog, phosphoribosyltransferase domain; protein YhgH required for utilization of DNA as sole sourc	bi	sce_8158	78.46	Competence protein F homolog, phosphoribosyltransferase domain; protein YhgH required for utilization of DNA as sole source of c
SCE1572_9378	hypothetical protein	-		0	
SCE1572_9379	hypothetical protein	bi	sce_8159	76.12	peptidase C14, caspase catalytic subunit p20
SCE1572_9380	Membrane protein involved in colicin uptake-like protein	bi	sce_8160	75	hypothetical protein
SCE1572_9381	Unknown protein	bi	sce_8161	88.34	Unknown protein
SCE1572_9382	hypothetical protein	-		0	
SCE1572_9383	Cell division protein FtsH (EC 3.4.24.-)	bi	sce_8162	98.15	Cell division protein FtsH (EC 3.4.24.-)
SCE1572_9384	tRNA(Ile)-lysidine synthetase	bi	sce_8164	86.22	tRNA(Ile)-lysidine synthetase
SCE1572_9385	hypothetical protein	bi	sce_8165	75.95	hypothetical protein
SCE1572_9386	FIG00431633: hypothetical protein	bi	sce_8166	87.74	FIG00431633: hypothetical protein
SCE1572_9387	serine/threonine protein kinase	bi	sce_8167	79.95	serine/threonine protein kinase
SCE1572_9388	hypothetical protein	bi	sce_8168	88.02	hypothetical protein
SCE1572_9389	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase (EC 2.1.1.61)	bi	sce_8169	89.95	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase (EC 2.1.1.61)
SCE1572_9390	DNA-binding response regulator KdpE	bi	sce_8170	80.5	DNA-binding response regulator KdpE
SCE1572_9391	FIG01088964: hypothetical protein	bi	sce_8171	87.06	FIG01088964: hypothetical protein
SCE1572_9392	Phosphoribosylformylglycinamidine synthase, glutamine amidotransferase subunit (EC 6.3.5.3)	bi	sce_264	31.91	Phosphoribosylformylglycinamidine synthase, synthetase subunit (EC 6.3.5.3) / Phosphoribosylformylglycinamidine synthase, gluta
SCE1572_9393	FIG01085655: hypothetical protein	bi	sce_8172	81.72	FIG01085655: hypothetical protein
SCE1572_9394	modification methylase, putative	bi	sce_8173	87.8	modification methylase, putative
SCE1572_9395	hypothetical protein	bi	sce_8174	76.11	hypothetical protein
SCE1572_9396	FIG022199: FAD-binding protein	bi	sce_8175	88.58	FIG022199: FAD-binding protein
SCE1572_9397	Sulfopyruvate decarboxylase - beta subunit (EC 4.1.1.79)	bi	sce_8179	94.65	Sulfopyruvate decarboxylase - beta subunit (EC 4.1.1.79)
SCE1572_9398	Cholinephosphate cytidylyltransferase (EC 2.7.7.15)	bi	sce_8180	92.77	Cholinephosphate cytidylyltransferase (EC 2.7.7.15)
SCE1572_9399	FIG01087394: hypothetical protein	bi	sce_8181	91.72	FIG01087394: hypothetical protein
SCE1572_9400	D1 protease precursor	bi	sce_8182	86.07	hypothetical protein
SCE1572_9401	FIG01087662: hypothetical protein	bi	sce_8183	93.98	FIG01087662: hypothetical protein
SCE1572_9402	S-adenosylmethionine synthetase (EC 2.5.1.6)	bi	sce_8184	93.13	S-adenosylmethionine synthetase (EC 2.5.1.6)
SCE1572_9403	FIG01088440: hypothetical protein	bi	sce_8185	72.11	FIG01088440: hypothetical protein
SCE1572_9404	FIG01088015: hypothetical protein	bi	sce_8186	92.42	FIG01088015: hypothetical protein
SCE1572_9405	hypothetical protein	-		0	
SCE1572_9406	hypothetical protein	-		0	
SCE1572_9407	Bll2366 protein	bi	sce_8189	82.07	Bll2366 protein
SCE1572_9408	hypothetical protein	bi	sce_8190	75.95	hypothetical protein
SCE1572_9409	FIG01088883: hypothetical protein	bi	sce_8191	67.46	FIG01088883: hypothetical protein
SCE1572_9410	Capsular polysaccharide synthesis enzyme CpsD, exopolysaccharide synthesis	bi	sce_8192	81.95	Capsular polysaccharide synthesis enzyme CpsD, exopolysaccharide synthesis
SCE1572_9411	hypothetical protein	bi	sce_8193	61.52	hypothetical protein
SCE1572_9412	putative glycosyl transferase	bi	sce_8195	83.15	Glycosyl transferase, group 1
SCE1572_9413	Heparinase II/III-like	bi	sce_8196	79.92	Heparinase II/III-like
SCE1572_9414	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase (EC 2.7.8.-)	bi	sce_8198	85.49	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase (EC 2.7.8.-)
SCE1572_9415	hypothetical protein	-		0	
SCE1572_9416	Cd(II)/Pb(II)-responsive transcriptional regulator	bi	sce_8203	89.93	mercuric resistance operon regulatory protein (MerR)
SCE1572_9417	Cysteine desulfurase (EC 2.8.1.7), IscS subfamily	bi	sce_8204	97.05	Cysteine desulfurase (EC 2.8.1.7), IscS subfamily
SCE1572_9418	Iron-sulfur cluster assembly scaffold protein IscU	bi	sce_8205	92.62	Iron-sulfur cluster assembly scaffold protein IscU
SCE1572_9419	Iron binding protein IscA for iron-sulfur cluster assembly	bi	sce_8206	87.34	Iron binding protein IscA for iron-sulfur cluster assembly
SCE1572_9420	Chaperone protein HscB	bi	sce_8207	88.07	Chaperone protein HscB
SCE1572_9421	Chaperone protein HscA	bi	sce_8208	91.48	Chaperone protein HscA
SCE1572_9422	Ferredoxin, 2Fe-2S	bi	sce_8209	94.07	Ferredoxin, 2Fe-2S
SCE1572_9423	hypothetical protein	bi	sce_8210	86.67	hypothetical protein
SCE1572_9424	putative outer membrane protein	bi	sce_8211	73.91	putative outer membrane protein
SCE1572_9425	hypothetical protein	bi	sce_8212	93.75	hypothetical protein
SCE1572_9426	FIG01085962: hypothetical protein	bi	sce_8213	93.4	FIG01085962: hypothetical protein
SCE1572_9427	FIG01089442: hypothetical protein	bi	sce_8214	73.13	FIG01089442: hypothetical protein
SCE1572_9428	GTP-binding and nucleic acid-binding protein YchF	bi	sce_8215	95.04	GTP-binding and nucleic acid-binding protein YchF
SCE1572_9429	Transcriptional regulator, LysR family	uni	sce_5333	44.63	Transcriptional regulator, LysR family
SCE1572_9430	DegT/DnrJ/EryC1/StrS family protein	bi	sce_8219	85.44	DegT/DnrJ/EryC1/StrS family protein
SCE1572_9431	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-acetyltransferase (EC 2.3.1.89)	bi	sce_8220	90.58	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-acetyltransferase (EC 2.3.1.89)
SCE1572_9432	hypothetical protein	bi	sce_8221	85.9	hypothetical protein
SCE1572_9433	Preprotein translocase subunit SecG (TC 3.A.5.1.1)	bi	sce_8222	94.44	Preprotein translocase subunit SecG (TC 3.A.5.1.1)
SCE1572_9434	Triosephosphate isomerase (EC 5.3.1.1)	bi	sce_8223	95.36	Triosephosphate isomerase (EC 5.3.1.1)
SCE1572_9435	Phosphoglycerate kinase (EC 2.7.2.3)	bi	sce_8224	96.59	Phosphoglycerate kinase (EC 2.7.2.3)
SCE1572_9436	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12)	bi	sce_8225	97.65	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12)
SCE1572_9437	Thioredoxin	bi	sce_8226	59.81	putative thioredoxin
SCE1572_9438	hypothetical protein	-		0	
SCE1572_9439	Glycosyl transferase, group 2 family protein	bi	sce_8227	93.33	Glycosyl transferase, group 2 family protein
SCE1572_9440	serine/threonine kinase	bi	sce_8228	81.16	serine/threonine kinase
SCE1572_9441	Putative stomatin/prohibitin-family membrane protease subunit aq_911	bi	sce_8229	91	Putative stomatin/prohibitin-family membrane protease subunit aq_911
SCE1572_9442	hypothetical protein	bi	sce_8230	80.5	hypothetical protein
SCE1572_9443	Alkylated DNA repair protein AlkB	bi	sce_6393	32.41	Alkylated DNA repair protein AlkB
SCE1572_9444	d-aminoacylase (aspartate, glutamate etc)	bi	sce_1718	91.14	N-acyl-D-amino acid deacylase family protein(EC:3.5.1.81)
SCE1572_9445	Multidrug resistance transporter, Bcr/CflA family	uni	sce_1251	29.74	drug resistance transporter, EmrB/QacA family
SCE1572_9446	hypothetical protein	bi	sce_8233	83.33	hypothetical protein
SCE1572_9447	hypothetical protein	-		0	
SCE1572_9448	Amino acid permease	bi	sce_8235	85.32	Amino acid permease
SCE1572_9449	FIG002813: LPPG:FO 2-phospho-L-lactate transferase like, CofD-like	bi	sce_8236	93.42	FIG002813: LPPG:FO 2-phospho-L-lactate transferase like, CofD-like
SCE1572_9450	Site-specific DNA methyltransferase (EC 2.1.1.72)	bi	sce_8237	92.83	Site-specific DNA methyltransferase (EC 2.1.1.72)
SCE1572_9451	hypothetical protein	bi	sce_8238	92.11	hypothetical protein
SCE1572_9452	FIG01086943: hypothetical protein	bi	sce_8239	70.47	FIG01086943: hypothetical protein
SCE1572_9453	serine/threonine protein kinase	uni	sce_6194	49.01	Serine/threonine-protein kinase pkn1 (EC 2.7.11.1)
SCE1572_9454	serine/threonine protein kinase	uni	sce_6193	51.22	serine/threonine protein kinase
SCE1572_9455	hypothetical protein	uni	sce_2054	37.72	BNR repeat domain protein
SCE1572_9456	hypothetical protein	-		0	
SCE1572_9457	Threonine dehydrogenase and related Zn-dependent dehydrogenases	uni	sce_534	69.81	Threonine dehydrogenase and related Zn-dependent dehydrogenases
SCE1572_9458	hypothetical protein	bi	sce_8241	76.26	hypothetical protein
SCE1572_9459	hypothetical protein	-		0	
SCE1572_9460	hypothetical protein-putative transmembrane protein	bi	sce_8242	82.04	hypothetical protein-putative transmembrane protein
SCE1572_9461	hypothetical protein	bi	sce_8243	80.77	FIG01089478: hypothetical protein
SCE1572_9462	putative exported protein of unknown function with OmpA family domain	bi	sce_8244	70.19	OmpA/MotB
SCE1572_9463	Anchorage subunit of a-agglutinin of a-cells, highly O-glycosylated protein with N-terminal secretion signal and C-terminal sig	uni	sce_5532	41.51	FIG01085490: hypothetical protein
SCE1572_9464	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	bi	sce_8245	85.3	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_9465	hypothetical protein	-		0	
SCE1572_9466	hypothetical protein	bi	sce_8247	82.99	hypothetical protein
SCE1572_9467	ABC transporter, ATP-binding protein	bi	sce_8248	87.44	ABC transporter, ATP-binding protein
SCE1572_9468	FIG01086004: hypothetical protein	bi	sce_8249	83.57	FIG01086004: hypothetical protein
SCE1572_9469	FIG017823: ATPase, MoxR family	bi	sce_8250	93.22	methanol dehydrogenase regulatory protein
SCE1572_9470	FIG01086883: hypothetical protein	bi	sce_8251	78.29	FIG01086883: hypothetical protein
SCE1572_9471	hypothetical protein	-		0	
SCE1572_9472	Response regulator receiver	uni	sce_4145	43.14	COG1565: Uncharacterized conserved protein
SCE1572_9473	Cysteine synthase (EC 2.5.1.47)	bi	sce_8252	94.01	Cysteine synthase (EC 2.5.1.47)
SCE1572_9474	Sulfate and thiosulfate import ATP-binding protein CysA (EC 3.6.3.25)	bi	sce_8253	94.1	Sulfate and thiosulfate import ATP-binding protein CysA (EC 3.6.3.25)
SCE1572_9475	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_8254	89.42	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_9476	Uncharacterized protein MJ0935	bi	sce_8255	84.55	Uncharacterized conserved protein
SCE1572_9477	hypothetical protein	-		0	
SCE1572_9478	Glycosyltransferase	bi	sce_8265	92.52	Glycosyltransferase
SCE1572_9479	FIG01088584: hypothetical protein	bi	sce_8266	92.9	Bll5419 protein
SCE1572_9480	Antifreeze glycopeptide AFGP polyprotein precursor	bi	sce_8267	84.43	hypothetical protein
SCE1572_9481	FIG01086688: hypothetical protein	bi	sce_8268	84.67	FIG01086688: hypothetical protein
SCE1572_9482	Universal stress protein family	bi	sce_8269	88.36	Universal stress protein family
SCE1572_9483	Ammonium transporter family	bi	sce_8270	94.55	Ammonium transporter family
SCE1572_9484	FIG000859: hypothetical protein YebC	bi	sce_8271	97.59	FIG000859: hypothetical protein YebC
SCE1572_9485	hypothetical protein	bi	sce_8272	85.29	hypothetical protein
SCE1572_9486	Phosphopantothenoylcysteine decarboxylase (EC 4.1.1.36) / Phosphopantothenoylcysteine synthetase (EC 6.3.2.5)	bi	sce_8273	90.78	Phosphopantothenoylcysteine decarboxylase (EC 4.1.1.36) / Phosphopantothenoylcysteine synthetase (EC 6.3.2.5)
SCE1572_9487	hypothetical protein	bi	sce_2574	35.76	hypothetical protein
SCE1572_9488	Tryptophanyl-tRNA synthetase (EC 6.1.1.2)	bi	sce_8274	89.18	Tryptophanyl-tRNA synthetase (EC 6.1.1.2)
SCE1572_9489	Vancomycin B-type resistance protein VanW	bi	sce_8275	92.04	Vancomycin B-type resistance protein VanW
SCE1572_9490	Serine/threonine-protein kinase (EC 2.7.1.-)	bi	sce_8276	81.72	Serine/threonine-protein kinase (EC 2.7.1.-)
SCE1572_9491	hypothetical protein	-		0	
SCE1572_9492	Excinuclease ABC subunit C	bi	sce_8277	88.77	Excinuclease ABC subunit C
SCE1572_9493	hypothetical protein	-		0	
SCE1572_9494	FIG01088182: hypothetical protein	bi	sce_8280	95.33	FIG01088182: hypothetical protein
SCE1572_9495	Conserved domain protein	bi	sce_8281	90.19	Conserved domain protein
SCE1572_9496	TPR repeat	bi	sce_8282	85.86	TPR repeat
SCE1572_9497	FIG01088962: hypothetical protein	bi	sce_8283	80.97	FIG01088962: hypothetical protein
SCE1572_9498	SSU ribosomal protein S9p (S16e)	bi	sce_8284	96.15	SSU ribosomal protein S9p (S16e)
SCE1572_9499	LSU ribosomal protein L13p (L13Ae)	bi	sce_8285	98.43	LSU ribosomal protein L13p (L13Ae)
SCE1572_9500	Nitrogen regulation protein ntrY (EC 2.7.3.-)	bi	sce_8286	86.48	Nitrogen regulation protein ntrY (EC 2.7.3.-)
SCE1572_9501	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] (EC 2.6.1.16)	bi	sce_8287	96.56	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] (EC 2.6.1.16)
SCE1572_9502	Major facilitator superfamily MFS_1	bi	sce_8288	82.27	COG0477: Permeases of the major facilitator superfamily
SCE1572_9503	RNA-binding protein	bi	sce_8290	92.37	RNA-binding protein
SCE1572_9504	extracellular solute-binding protein, family 5	bi	sce_8291	90.44	PERIPLASMIC DIPEPTIDE TRANSPORT PROTEIN PRECURSOR
SCE1572_9505	hypothetical protein	bi	sce_8292	89.74	hypothetical protein
SCE1572_9506	Transport protein	bi	sce_8293	92.8	Transport protein
SCE1572_9507	Peptide deformylase (EC 3.5.1.88)	bi	sce_8294	82.87	Peptide deformylase (EC 3.5.1.88)
SCE1572_9508	UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-diaminopimelate--D-alanyl-D-alanine ligase (EC 6.3.2.10)	bi	sce_8295	90.78	UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-diaminopimelate--D-alanyl-D-alanine ligase (EC 6.3.2.10)
SCE1572_9509	InterPro IPR000694:IPR006665 COGs COG2885	bi	sce_8296	84.09	hypothetical protein
SCE1572_9510	hypothetical protein	bi	sce_8297	74.19	hypothetical protein

SCE1572_9511	hypothetical protein	-		0	
SCE1572_9512	Leucyl-tRNA synthetase (EC 6.1.1.4)	bi	sce_8299	92.93	Leucyl-tRNA synthetase (EC 6.1.1.4)
SCE1572_9513	Trypsin-2 precursor (EC 3.4.21.4)	bi	sce_8300	79.51	Trypsin-2 precursor (EC 3.4.21.4)
SCE1572_9514	Putative lipoprotein	bi	sce_8301	88.73	Putative lipoprotein
SCE1572_9515	hypothetical protein	bi	sce_8302	89.11	hypothetical protein
SCE1572_9516	Peptidyl-prolyl cis-trans isomerase ppiD (EC 5.2.1.8)	bi	sce_8303	88	Peptidyl-prolyl cis-trans isomerase ppiD (EC 5.2.1.8)
SCE1572_9517	FIG00706878: hypothetical protein	bi	sce_8304	92.12	FIG00706878: hypothetical protein
SCE1572_9518	hypothetical protein	bi	sce_8305	88.73	Zinc transporter ZupT
SCE1572_9520	Isoquinoline 1-oxidoreductase beta subunit (EC 1.3.99.16)	uni	sce_3738	89.45	Isoquinoline 1-oxidoreductase beta subunit (EC 1.3.99.16)
SCE1572_9521	FIG01086323: hypothetical protein	uni	sce_3737	88.89	FIG01086323: hypothetical protein
SCE1572_9522	hypothetical protein	-		0	
SCE1572_9523	hypothetical protein	bi	sce_8308	86.81	hypothetical protein
SCE1572_9524	hypothetical protein	bi	sce_8309	74.72	hypothetical protein
SCE1572_9525	hypothetical protein	uni	sce_9076	44.3	Murein endopeptidase
SCE1572_9526	Quinolinate synthetase (EC 2.5.1.72)	bi	sce_8310	96.87	Quinolinate synthetase (EC 2.5.1.72)
SCE1572_9527	FIG01086785: hypothetical protein	bi	sce_8311	91.96	FIG01086785: hypothetical protein
SCE1572_9528	ABC1 family protein	bi	sce_8312	94.17	hypothetical protein
SCE1572_9529	Serine/threonine protein kinase PknB (EC 2.7.11.1)	bi	sce_8313	73.31	Serine/threonine protein kinase PknB (EC 2.7.11.1)
SCE1572_9530	Gll0645 protein	bi	sce_8314	77.56	Gll0645 protein
SCE1572_9531	3'-to-5' exoribonuclease RNase R	bi	sce_8315	91.5	3'-to-5' exoribonuclease RNase R
SCE1572_9532	FIG01088398: hypothetical protein	bi	sce_8316	87.8	FIG01088398: hypothetical protein
SCE1572_9533	FIG01085807: hypothetical protein	bi	sce_8317	83.33	FIG01085807: hypothetical protein
SCE1572_9534	serine/threonine protein kinase	bi	sce_8318	85.94	serine/threonine protein kinase
SCE1572_9535	hypothetical protein	-		0	
SCE1572_9536	Di-haem cytochrome c peroxidase	bi	sce_8319	86.88	Di-haem cytochrome c peroxidase
SCE1572_9537	hypothetical protein	bi	sce_8320	73.91	hypothetical protein
SCE1572_9538	hypothetical protein	bi	sce_8321	81.62	hypothetical protein
SCE1572_9539	Os06g0254700	-		0	
SCE1572_9540	integral membrane protein	-		0	
SCE1572_9541	hypothetical protein	bi	sce_8323	78.91	hypothetical protein
SCE1572_9542	hypothetical protein	bi	sce_8324	86.67	hypothetical protein
SCE1572_9543	hypothetical protein, INTERPRO suggestion: probable carbohydrate kinase	bi	sce_8325	79.46	hypothetical protein, INTERPRO suggestion: probable carbohydrate kinase
SCE1572_9544	hypothetical protein	-		0	
SCE1572_9545	Aldo/keto reductase family	uni	sce_1690	33.79	putative aldo/keto reductase
SCE1572_9546	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-); Cyanobacterial phytochrome B	uni	sce_229	55.34	FOG: PAS/PAC domain
SCE1572_9547	putative oxidoreductase protein	uni	sce_2969	71.93	putative oxidoreductase protein
SCE1572_9548	hypothetical protein	-		0	
SCE1572_9549	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_8328	92.55	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_9550	Gfa-like protein	bi	sce_8329	87.39	hypothetical protein
SCE1572_9551	NAD-dependent protein deacetylase of SIR2 family	bi	sce_8330	90.4	NAD-dependent protein deacetylase of SIR2 family
SCE1572_9552	ADA regulatory protein / Methylated-DNA--protein-cysteine methyltransferase (EC 2.1.1.63)	uni	sce_6948	47.78	Methylated-DNA--protein-cysteine methyltransferase (EC 2.1.1.63)
SCE1572_9553	FIG00455822: hypothetical protein	-		0	
SCE1572_9554	hypothetical protein	bi	sce_4770	68.42	hypothetical protein
SCE1572_9555	hypothetical protein	bi	sce_8332	88.72	hypothetical protein
SCE1572_9556	Poly-gamma-glutamate synthase subunit PgsB/CapB (EC 6.3.2.-)	bi	sce_8333	92.37	Poly-gamma-glutamate synthase subunit PgsB/CapB (EC 6.3.2.-)
SCE1572_9557	YpfJ protein, zinc metalloprotease superfamily	bi	sce_8334	89.21	YpfJ protein, zinc metalloprotease superfamily
SCE1572_9558	hypothetical protein	-		0	
SCE1572_9559	Thiol peroxidase, Bcp-type (EC 1.11.1.15)	uni	sce_5609	39.13	Thiol peroxidase, Bcp-type (EC 1.11.1.15)
SCE1572_9560	hypothetical protein	bi	sce_8336	71.55	hypothetical protein
SCE1572_9561	Probable serine/threonine-protein kinase PknB	bi	sce_8337	84.48	Probable serine/threonine-protein kinase PknB
SCE1572_9562	hypothetical protein	-		0	
SCE1572_9563	conserved hypothetical protein-putative thiol-disulfide isomerase or thioredoxin	bi	sce_8352	80.5	conserved hypothetical protein-putative thiol-disulfide isomerase or thioredoxin
SCE1572_9564	Trk system potassium uptake protein TrkA	bi	sce_8353	89.32	Trk system potassium uptake protein TrkA
SCE1572_9565	Na? antiporter	bi	sce_8354	83.56	Na? antiporter
SCE1572_9566	hypothetical protein	-		0	
SCE1572_9567	hypothetical protein	-		0	
SCE1572_9568	FIG01020577: hypothetical protein	bi	sce_136	80.72	FIG01020577: hypothetical protein
SCE1572_9569	Transcriptional regulator, MerR family	bi	sce_8363	79.59	Transcriptional regulator, MerR family
SCE1572_9570	Signal transduction histidine kinase CheA (EC 2.7.3.-)	uni	sce_7661	50.35	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_9571	hypothetical protein	bi	sce_8364	86.31	hypothetical protein
SCE1572_9572	FIG01088723: hypothetical protein	bi	sce_8365	77.5	FIG01088723: hypothetical protein
SCE1572_9573	Regulator of cell morphogenesis and NO signaling	bi	sce_8366	83.63	Regulator of cell morphogenesis and NO signaling
SCE1572_9574	hypothetical protein	bi	sce_8367	72.83	FIG01089257: hypothetical protein
SCE1572_9575	HNH endonuclease family protein	uni	sce_6270	88.33	HNH endonuclease family protein
SCE1572_9576	hypothetical protein	bi	sce_8368	88.46	EBNA-1
SCE1572_9577	DTW domain containing protein	bi	sce_8369	85.34	COG3148: Uncharacterized conserved protein
SCE1572_9578	iron aquisition yersiniabactin synthesis enzyme (YbtT,resembles thioesterases)	uni	sce_401	29.82	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_9579	2,3-dihydroxybenzoate-AMP ligase (EC 2.7.7.58)	bi	sce_4341	59.2	2,3-dihydroxybenzoate-AMP ligase (EC 2.7.7.58)
SCE1572_9580	FIG00855540: hypothetical protein	-		0	
SCE1572_9581	hypothetical protein	-		0	
SCE1572_9582	putative cytochrome P450 hydroxylase	uni	sce_9951	38.12	putative cytochrome P450 hydroxylase
SCE1572_9583	pyochelin synthetase F	uni	sce_4641	26.19	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_9584	pyochelin synthetase F	-		0	
SCE1572_9585	Putative reductoisomerase in siderophore biosynthesis gene cluster	-		0	
SCE1572_9586	ABC transporter component	uni	sce_7835	33.27	ABC transporter, ATP-binding protein, MsbA family
SCE1572_9587	Inner membrane ABC-transporter YbtQ	uni	sce_2975	41.38	ABC transporter, fused permease and ATPase domains
SCE1572_9588	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_4639	37.53	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_9589	iron aquisition yersiniabactin synthesis enzyme (Irp2)	uni	sce_2666	33.58	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_9590	iron aquisition 2,3-dihydroxybenzoate-AMP ligase (EC 2.7.7.58,Irp5)	uni	sce_5650	32.17	Isochorismate synthase (EC 5.4.4.2) of siderophore biosynthesis
SCE1572_9591	hypothetical protein	-		0	
SCE1572_9592	ABC transporter, ATP-binding protein	uni	sce_2719	39.13	ABC transporter
SCE1572_9593	hypothetical protein	uni	sce_4346	28.68	MxcI
SCE1572_9594	Ferric siderophore transport system, periplasmic binding protein TonB	uni	sce_1486	34.75	VgrG protein
SCE1572_9595	Biopolymer transport protein ExbD/TolR	uni	sce_4832	49.26	Biopolymer transport protein ExbD/TolR
SCE1572_9596	MotA/TolQ/ExbB proton channel family protein	uni	sce_4831	48.24	MotA/TolQ/ExbB proton channel family protein
SCE1572_9597	TonB-dependent receptor	uni	sce_9238	53.71	TonB-dependent receptor
SCE1572_9598	Multi antimicrobial extrusion protein (Na()/drug antiporter), MATE family of MDR efflux pumps	bi	sce_4593	76.03	Multi antimicrobial extrusion protein (Na()/drug antiporter), MATE family of MDR efflux pumps
SCE1572_9599	4-deoxy-L-threo-5-hexosulose-uronate ketol-isomerase (EC 5.3.1.17)	-		0	
SCE1572_9600	hypothetical protein	-		0	
SCE1572_9601	Periplasmic beta-glucosidase (EC 3.2.1.21)	uni	sce_9564	62.06	Periplasmic beta-glucosidase (EC 3.2.1.21)
SCE1572_9602	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_7864	54.2	1,4-beta-cellobiosidase
SCE1572_9603	Large low complexity protein with proline/alanine-rich repeat	bi	sce_8430	84.85	putative Fe-S oxidoreductase
SCE1572_9604	hypothetical protein	uni	sce_8430	72.18	putative Fe-S oxidoreductase
SCE1572_9605	Y25C1A.3	uni	sce_6240	30.13	serine/threonine protein kinase
SCE1572_9606	hypothetical protein	uni	sce_8430	62.32	putative Fe-S oxidoreductase
SCE1572_9607	Transposase	uni	sce_7292	56.85	FIG01086976: hypothetical protein
SCE1572_9608	hypothetical protein	uni	sce_9281	33.08	ATP binding protein
SCE1572_9609	hypothetical protein	-		0	
SCE1572_9610	hypothetical protein	-		0	
SCE1572_9611	hypothetical protein	-		0	
SCE1572_9612	DNA repair protein RadC	uni	sce_7263	50	DNA repair protein RadC
SCE1572_9613	hypothetical protein	-		0	
SCE1572_9614	hypothetical protein	-		0	
SCE1572_9615	hypothetical protein	-		0	
SCE1572_9616	hypothetical protein	-		0	
SCE1572_9617	LOC432261 protein	bi	sce_8431	84.92	LOC432261 protein
SCE1572_9618	hypothetical protein	bi	sce_8432	81.03	hypothetical protein
SCE1572_9619	hypothetical protein	uni	sce_3096	27.17	FOG: HEAT repeat
SCE1572_9620	hypothetical protein	-		0	
SCE1572_9621	hypothetical protein	bi	sce_8435	91.96	hypothetical protein
SCE1572_9622	hypothetical protein	uni	sce_8435	83.11	hypothetical protein
SCE1572_9623	hypothetical protein	bi	sce_8436	85.73	membrane protein
SCE1572_9624	peptidase S8 and S53, subtilisin, kexin, sedolisin	bi	sce_8437	84.09	Kumamolysin
SCE1572_9625	Hypothetical protein	bi	sce_8438	89.01	Hypothetical protein
SCE1572_9626	hypothetical protein	-		0	
SCE1572_9627	serine/threonine kinase with two-component sensor domain	uni	sce_2065	64.57	putative sensory box histidine kinase
SCE1572_9628	FIG01085590: hypothetical protein	uni	sce_2065	75.52	putative sensory box histidine kinase
SCE1572_9629	SNF2-related:Helicase-like:SWIM Zn-finger:DEAD/DEAH box helicase-like	bi	sce_8441	78.21	SWF/SNF family helicase
SCE1572_9630	hypothetical protein	-		0	
SCE1572_9631	PE-PGRS FAMILY PROTEIN	bi	sce_8443	62.11	hypothetical protein
SCE1572_9632	COG1842: Phage shock protein A (IM30), suppresses sigma54-dependent transcription	bi	sce_8444	96.71	COG1842: Phage shock protein A (IM30), suppresses sigma54-dependent transcription
SCE1572_9633	FIG01089567: hypothetical protein	bi	sce_8445	82.3	FIG01089567: hypothetical protein
SCE1572_9634	Pyruvate,phosphate dikinase (EC 2.7.9.1)	bi	sce_8446	92.93	Pyruvate,phosphate dikinase (EC 2.7.9.1)
SCE1572_9635	FKBP-type peptidyl-prolyl cis-trans isomerase fklB (EC 5.2.1.8)	bi	sce_8447	84.49	FKBP-type peptidyl-prolyl cis-trans isomerase fklB (EC 5.2.1.8)
SCE1572_9636	hypothetical protein	bi	sce_8448	93.63	hypothetical protein
SCE1572_9637	cellulose-binding, family II	bi	sce_8449	53.1	RNA-binding protein
SCE1572_9638	FIG01089533: hypothetical protein	bi	sce_8450	83.64	FIG01089533: hypothetical protein
SCE1572_9639	hypothetical protein	-		0	
SCE1572_9640	(GlcNAc)2 ABC transporter, periplasmic substrate-binding protein	bi	sce_8451	91.88	putative oligopeptide/dipeptide ABC transporter, periplasmic oligopeptide/dipeptide-binding protein
SCE1572_9641	Methylmalonyl-CoA mutase (EC 5.4.99.2)	bi	sce_8452	92.85	Methylmalonyl-CoA mutase (EC 5.4.99.2)
SCE1572_9642	FIG01085148: hypothetical protein	bi	sce_8453	79.17	FIG01085148: hypothetical protein
SCE1572_9643	Flagellar motor rotation protein MotB	bi	sce_8454	84.25	Flagellar motor rotation protein MotB
SCE1572_9644	putative lipoprotein	bi	sce_8455	57.32	putative lipoprotein
SCE1572_9645	Cell division protein BolA	bi	sce_8456	92.94	Cell division protein BolA
SCE1572_9646	3-ketoacyl-CoA thiolase (EC 2.3.1.16) @ Acetyl-CoA acetyltransferase (EC 2.3.1.9)	bi	sce_8457	92.93	3-ketoacyl-CoA thiolase (EC 2.3.1.16) @ Acetyl-CoA acetyltransferase (EC 2.3.1.9)
SCE1572_9647	Enoyl-CoA hydratase [isoleucine degradation] (EC 4.2.1.17) / 3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)	bi	sce_8458	94.58	Enoyl-CoA hydratase [isoleucine degradation] (EC 4.2.1.17) / 3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)
SCE1572_9648	FIG01089010: hypothetical protein	bi	sce_8459	80.81	FIG01089010: hypothetical protein
SCE1572_9649	hypothetical protein	uni	sce_5241	66.28	FIG01086664: hypothetical protein
SCE1572_9650	FIG01085364: hypothetical protein	uni	sce_5242	66.27	FIG01085364: hypothetical protein
SCE1572_9651	FIG01088755: hypothetical protein	uni	sce_9910	67.04	FIG01088755: hypothetical protein
SCE1572_9652	hypothetical protein	uni	sce_10366	64.24	FIG01086239: hypothetical protein
SCE1572_9653	hypothetical protein	uni	sce_9503	71.61	hypothetical protein
SCE1572_9654	hypothetical protein	bi	sce_10364	87.6	hypothetical protein
SCE1572_9655	hypothetical protein	uni	sce_10364	61.69	hypothetical protein
SCE1572_9656	FIG01086605: hypothetical protein	uni	sce_8463	80.68	FIG01086605: hypothetical protein
SCE1572_9657	hypothetical protein	bi	sce_8464	89.12	hypothetical protein
SCE1572_9658	FIG01087820: hypothetical protein	bi	sce_8465	81.26	FIG01087820: hypothetical protein
SCE1572_9659	NAD(P)H-quinone oxidoreductase chain 1	bi	sce_8466	92.71	NAD(P)H-quinone oxidoreductase chain 1
SCE1572_9660	Vitamin B12 ABC transporter, ATPase component BtuD	bi	sce_8467	93.13	Vitamin B12 ABC transporter, ATPase component BtuD
SCE1572_9661	RNA polymerase sigma factor	bi	sce_8469	96.93	RNA polymerase sigma factor
SCE1572_9662	putative transmembrane anti-sigma factor	bi	sce_8470	81.88	putative transmembrane anti-sigma factor
SCE1572_9663	Glutathione synthetase (EC 6.3.2.3)	bi	sce_8471	94.38	Glutathione synthetase (EC 6.3.2.3)
SCE1572_9664	hypothetical protein	bi	sce_8472	80.47	hypothetical protein
SCE1572_9665	2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokinase (EC 2.7.6.3)	bi	sce_8473	87.9	2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokinase (EC 2.7.6.3)
SCE1572_9666	hypothetical protein	bi	sce_8474	80.93	hypothetical protein
SCE1572_9667	DNA polymerase III alpha subunit (EC 2.7.7.7)	bi	sce_8475	94.19	DNA polymerase III alpha subunit (EC 2.7.7.7)
SCE1572_9668	Periplasmic thiol:disulfide interchange protein DsbA	bi	sce_8476	84.47	Periplasmic thiol:disulfide interchange protein DsbA
SCE1572_9669	Hypothetical protein	bi	sce_8477	81.13	Hypothetical protein
SCE1572_9670	Probable outer membrane protein	bi	sce_8478	83.77	Probable outer membrane protein
SCE1572_9671	FIG01087493: hypothetical protein	bi	sce_8479	72.25	FIG01087493: hypothetical protein
SCE1572_9672	Cytoplasmic membrane protein	bi	sce_8480	91.71	Cytoplasmic membrane protein
SCE1572_9673	Xaa-Pro dipeptidase (EC 3.4.13.9)	bi	sce_8481	75.21	hypothetical protein
SCE1572_9674	FIG01088940: hypothetical protein	bi	sce_8483	91.73	FIG01088940: hypothetical protein
SCE1572_9675	hypothetical protein	bi	sce_8484	89.45	hypothetical protein

SCE1572_9676	hypothetical protein	bi	sce_8485	91.25	hypothetical protein
SCE1572_9677	Oxidoreductase, aldo/keto reductase family	bi	sce_8486	85.02	Oxidoreductase, aldo/keto reductase family
SCE1572_9678	FIG00840231: hypothetical protein	bi	sce_8487	91.89	FIG00840231: hypothetical protein
SCE1572_9679	Molybdopterin oxidoreductase subunit, predicted; chaperone protein HtpG	bi	sce_8488	92.69	Molybdopterin oxidoreductase subunit, predicted; chaperone protein HtpG
SCE1572_9680	Fe-S-cluster-containing hydrogenase components 1	bi	sce_8489	90.02	Fe-S-cluster-containing hydrogenase components 1
SCE1572_9681	Molybdopterin oxidoreductase (EC 1.2.7.-)	bi	sce_8490	94.46	Molybdopterin oxidoreductase (EC 1.2.7.-)
SCE1572_9682	ABC-type Fe3 transport system protein; Molybdenum transport protein, putative	bi	sce_8491	79.3	ABC-type Fe3 transport system protein; Molybdenum transport protein, putative
SCE1572_9683	ABC-type Fe3 transport system protein; Molybdenum transport protein, putative	bi	sce_8492	92.54	hypothetical protein
SCE1572_9684	FIG01086031: hypothetical protein	bi	sce_8493	93.02	FIG01086031: hypothetical protein
SCE1572_9685	Virulence-associated cell-wall-anchored protein SasG (LPXTG motif), binding to squamous nasal epithelial cells	bi	sce_8494	66.38	Virulence-associated cell-wall-anchored protein SasG (LPXTG motif), binding to squamous nasal epithelial cells
SCE1572_9686	SCO1/SenC family protein	bi	sce_8495	90.71	SCO1/SenC family protein
SCE1572_9687	Cytochrome c oxidase polypeptide II (EC 1.9.3.1)	bi	sce_8496	90.51	Cytochrome c oxidase polypeptide II (EC 1.9.3.1)
SCE1572_9688	Cytochrome c oxidase polypeptide I (EC 1.9.3.1)	bi	sce_8497	93.21	Cytochrome c oxidase polypeptide I (EC 1.9.3.1)
SCE1572_9689	Cytochrome c oxidase polypeptide III (EC 1.9.3.1)	bi	sce_8498	95.61	Cytochrome c oxidase polypeptide III (EC 1.9.3.1)
SCE1572_9690	Cytochrome c oxidase polypeptide IV(EC 1.9.3.1)	bi	sce_8499	86.71	Cytochrome c oxidase polypeptide IV(EC 1.9.3.1)
SCE1572_9691	Signal transduction histidine kinase	bi	sce_8500	88.78	Signal transduction histidine kinase
SCE1572_9692	response regulator receiver sensor signal transduction histidine kinase	bi	sce_8501	96.79	sigma-54 dependent DNA-binding response regulator FrgC
SCE1572_9693	Cystathionine gamma-synthase (EC 2.5.1.48)	bi	sce_8502	94.29	Cystathionine gamma-synthase (EC 2.5.1.48)
SCE1572_9694	Sulfite reductase [NADPH] hemoprotein beta-component (EC 1.8.1.2)	bi	sce_8504	95.12	Sulfite reductase [NADPH] hemoprotein beta-component (EC 1.8.1.2)
SCE1572_9695	hypothetical protein	-		0	
SCE1572_9696	ATP-dependent DNA helicase Rep	bi	sce_8505	96.06	ATP-dependent DNA helicase Rep
SCE1572_9697	hypothetical protein	bi	sce_8506	81.31	hypothetical protein
SCE1572_9698	serine/threonine protein kinase	bi	sce_8507	70.22	serine/threonine protein kinase
SCE1572_9699	serine/threonine protein kinase	bi	sce_8508	86.36	serine/threonine protein kinase
SCE1572_9700	Cyclic beta-1,2-glucan synthase (EC 2.4.1.-)	bi	sce_8509	75.37	Cyclic beta-1,2-glucan synthase (EC 2.4.1.-)
SCE1572_9701	hypothetical protein	-		0	
SCE1572_9702	caax amino terminal protease family	bi	sce_8510	84.98	caax amino terminal protease family
SCE1572_9703	Phosphoserine phosphatase (EC 3.1.3.3)	uni	sce_9272	29.72	Phosphoserine phosphatase (EC 3.1.3.3)
SCE1572_9704	FIG01086044: hypothetical protein	bi	sce_8511	90.62	FIG01086044: hypothetical protein
SCE1572_9705	hypothetical protein	bi	sce_8512	86.9	hypothetical protein
SCE1572_9706	hypothetical protein	-		0	
SCE1572_9707	hypothetical protein	-		0	
SCE1572_9708	FIG01085105: hypothetical protein	bi	sce_8513	92.37	FIG01085105: hypothetical protein
SCE1572_9709	NADH-ubiquinone oxidoreductase chain N (EC 1.6.5.3)	bi	sce_8514	87.55	NADH-ubiquinone oxidoreductase chain N (EC 1.6.5.3)
SCE1572_9710	NADH-ubiquinone oxidoreductase chain M (EC 1.6.5.3)	bi	sce_8515	91.67	NADH-ubiquinone oxidoreductase chain M (EC 1.6.5.3)
SCE1572_9711	NADH-ubiquinone oxidoreductase chain L (EC 1.6.5.3)	bi	sce_8516	91.31	NADH-ubiquinone oxidoreductase chain L (EC 1.6.5.3)
SCE1572_9712	hypothetical protein	-		0	
SCE1572_9713	GTP-binding protein EngB	bi	sce_8517	88.58	GTP-binding protein EngB
SCE1572_9714	COG3536: Uncharacterized protein conserved in bacteria	bi	sce_8518	98.91	COG3536: Uncharacterized protein conserved in bacteria
SCE1572_9715	putative oxidoreductase	bi	sce_8520	83.82	oxidoreductase domain protein
SCE1572_9716	hypothetical protein	bi	sce_8521	84.96	hypothetical protein
SCE1572_9717	Acetyl-coenzyme A carboxyl transferase alpha chain (EC 6.4.1.2)	bi	sce_8522	97.79	Acetyl-coenzyme A carboxyl transferase alpha chain (EC 6.4.1.2)
SCE1572_9718	Adenylate cyclase (EC 4.6.1.1)	bi	sce_8523	94.78	Adenylate cyclase (EC 4.6.1.1)
SCE1572_9719	Adenylate cyclase (EC 4.6.1.1)	uni	sce_8523	75.27	Adenylate cyclase (EC 4.6.1.1)
SCE1572_9720	Glycerol kinase (EC 2.7.1.30)	bi	sce_8524	93.63	Glycerol kinase (EC 2.7.1.30)
SCE1572_9721	FIG01087592: hypothetical protein	bi	sce_8525	94	FIG01087592: hypothetical protein
SCE1572_9722	FIG01086935: hypothetical protein	bi	sce_8526	75.05	FIG01086935: hypothetical protein
SCE1572_9723	hypothetical protein	bi	sce_8527	33.97	Putative ATP-dependent DNA helicase
SCE1572_9724	Beta-lactamase class C and other penicillin binding proteins	uni	sce_1658	70.18	Beta-lactamase class C and other penicillin binding proteins
SCE1572_9725	hypothetical protein	bi	sce_8528	87.28	hypothetical protein
SCE1572_9726	hypothetical protein	bi	sce_8529	87.58	hypothetical protein
SCE1572_9727	Basic membrane protein A	uni	sce_8680	34.29	FIG01089215: hypothetical protein
SCE1572_9728	YbbR-like	bi	sce_8530	89.1	YbbR-like
SCE1572_9729	Hypothetical protein YbbP, contains nucleotide-binding domain of DisA bacterial checkpoint controller	bi	sce_8531	89.72	Hypothetical protein YbbP, contains nucleotide-binding domain of DisA bacterial checkpoint controller
SCE1572_9730	Dihydropteroate synthase (EC 2.5.1.15)	bi	sce_8532	84.08	Dihydropteroate synthase (EC 2.5.1.15)
SCE1572_9731	Membrane protein containing HD superfamily hydrolase domain, YQFF ortholog	bi	sce_8533	88.29	Membrane protein containing HD superfamily hydrolase domain, YQFF ortholog
SCE1572_9732	Acyl-CoA dehydrogenase, short-chain specific (EC 1.3.99.2)	bi	sce_8534	95.48	Acyl-CoA dehydrogenase, short-chain specific (EC 1.3.99.2)
SCE1572_9733	serine/threonine protein kinase	bi	sce_8535	82.81	serine/threonine protein kinase
SCE1572_9734	hypothetical protein	bi	sce_8536	84.69	hypothetical protein
SCE1572_9735	hypothetical protein	bi	sce_8537	92.9	hypothetical protein
SCE1572_9736	late competence protein (DNA binding and uptake)	bi	sce_8538	76.79	putative DNA-binding protein
SCE1572_9737	UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-diaminopimelate ligase (EC 6.3.2.-)	bi	sce_8539	90.89	UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-diaminopimelate ligase (EC 6.3.2.-)
SCE1572_9738	Inositol-1-monophosphatase (EC 3.1.3.25)	bi	sce_8540	87.68	Inositol-1-monophosphatase (EC 3.1.3.25)
SCE1572_9739	hypothetical protein	-		0	
SCE1572_9740	hypothetical protein	bi	sce_8541	83.93	hypothetical protein
SCE1572_9741	hypothetical protein	bi	sce_8542	90.74	hypothetical protein
SCE1572_9742	FIG01085306: hypothetical protein	bi	sce_8543	87.57	FIG01085306: hypothetical protein
SCE1572_9743	Thioredoxin reductase (EC 1.8.1.9)	bi	sce_8544	97.49	Thioredoxin reductase (EC 1.8.1.9)
SCE1572_9744	Uracil-DNA glycosylase, family 4	bi	sce_8545	78.53	Uracil-DNA glycosylase, family 4
SCE1572_9745	hypothetical protein	bi	sce_8546	81.58	hypothetical protein
SCE1572_9746	Glycyl-tRNA synthetase beta chain (EC 6.1.1.14)	bi	sce_8547	64.9	Glycyl-tRNA synthetase beta chain (EC 6.1.1.14)
SCE1572_9747	hypothetical protein	bi	sce_8548	87.5	hypothetical protein
SCE1572_9748	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_8549	89.43	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_9749	FIG01087035: hypothetical protein	bi	sce_8550	95.38	FIG01087035: hypothetical protein
SCE1572_9750	Thymidylate kinase (EC 2.7.4.9)	bi	sce_8551	77.41	response regulator receiver domain protein (CheY-like)
SCE1572_9751	putative signal transduction protein with Nacht domain	-		0	
SCE1572_9752	hypothetical protein	-		0	
SCE1572_9753	hypothetical protein	uni	sce_9445	35.45	hypothetical protein
SCE1572_9754	unknown	uni	sce_2587	35.87	Protein of unknown function DUF541
SCE1572_9755	hypothetical protein	-		0	
SCE1572_9756	RNA polymerase, sigma-24 subunit, ECF subfamily	uni	sce_10335	33.09	RNA polymerase sigma factor RpoE
SCE1572_9757	hydrolase, alpha/beta fold family	bi	sce_8552	90.1	putative hydrolase
SCE1572_9758	cytochrome c-554 precursor	bi	sce_8553	88.85	Cytochrome c family protein
SCE1572_9759	FIG01088561: hypothetical protein	bi	sce_8555	91.78	FIG01088561: hypothetical protein
SCE1572_9760	Chaperone protein DnaK	bi	sce_8556	93.8	Chaperone protein DnaK
SCE1572_9761	hypothetical protein	bi	sce_8557	98.43	hypothetical protein
SCE1572_9762	hypothetical protein	bi	sce_8558	75.32	hypothetical protein
SCE1572_9763	L-proline glycine betaine ABC transport system permease protein ProV (TC 3.A.1.12.1)	bi	sce_7918	75.6	glycine/betaine transport ATP-binding protein
SCE1572_9764	L-proline glycine betaine binding ABC transporter protein ProX (TC 3.A.1.12.1) / Osmotic adaptation	bi	sce_7917	65.54	L-proline glycine betaine binding ABC transporter protein ProX (TC 3.A.1.12.1) / Osmotic adaptation
SCE1572_9765	Cobalt-zinc-cadmium resistance protein CzcD	bi	sce_8560	86.56	Cobalt-zinc-cadmium resistance protein CzcD
SCE1572_9766	3-ketoacyl-CoA thiolase (EC 2.3.1.16) @ Acetyl-CoA acetyltransferase (EC 2.3.1.9)	bi	sce_8561	95.12	3-ketoacyl-CoA thiolase (EC 2.3.1.16) @ Acetyl-CoA acetyltransferase (EC 2.3.1.9)
SCE1572_9767	3'-to-5' oligoribonuclease (orn)	bi	sce_8562	95.72	3'-to-5' oligoribonuclease (orn)
SCE1572_9768	Putative two component sensor serine/threonine kinase(EC:2.7.1.-)	bi	sce_8564	72.11	serine/threonine protein kinase
SCE1572_9769	Transcriptional regulator, Cro/CI family	bi	sce_8565	90.07	Transcriptional regulator, Cro/CI family
SCE1572_9770	Lipid A export ATP-binding/permease protein MsbA	bi	sce_8566	91.95	Lipid A export ATP-binding/permease protein MsbA
SCE1572_9771	FIG01085938: hypothetical protein	bi	sce_8567	84.68	FIG01085938: hypothetical protein
SCE1572_9772	FIG01085364: hypothetical protein	bi	sce_8568	82.64	hypothetical protein
SCE1572_9773	FIG01086569: hypothetical protein	bi	sce_8569	84.15	FIG01086569: hypothetical protein
SCE1572_9774	Arginyl-tRNA synthetase (EC 6.1.1.19)	bi	sce_8570	93.07	Arginyl-tRNA synthetase (EC 6.1.1.19)
SCE1572_9775	Putative CDP-glycosylpolyol phosphate:glycosylpolyol glycosylpolyolphosphotransferase	uni	sce_9036	34.86	200 kDa antigen p200, putative
SCE1572_9776	serine/threonine protein kinase	bi	sce_8571	76.88	serine/threonine protein kinase
SCE1572_9777	hypothetical protein	bi	sce_8572	84.91	hypothetical protein
SCE1572_9778	Beta-glucosidase (EC 3.2.1.21)	bi	sce_8574	94.18	Beta-glucosidase (EC 3.2.1.21)
SCE1572_9779	heavy metal binding protein	bi	sce_8575	86.44	heavy metal binding protein
SCE1572_9780	putative lipoprotein	uni	sce_8568	52.67	hypothetical protein
SCE1572_9781	Transcriptional regulator, AraC family	bi	sce_8576	79.51	Transcriptional regulator, AraC family
SCE1572_9782	hypothetical protein	bi	sce_8577	88.73	hypothetical protein
SCE1572_9783	Xylose-responsive transcription regulator, ROK family	bi	sce_8578	92.16	Xylose-responsive transcription regulator, ROK family
SCE1572_9784	Kazal-type serine protease inhibitor domain	bi	sce_8580	84.21	Kazal-type serine protease inhibitor domain
SCE1572_9785	hypothetical protein	uni	sce_1158	41.33	FIG01088859: hypothetical protein
SCE1572_9786	FIG01086002: hypothetical protein	bi	sce_8584	96.36	FIG01086002: hypothetical protein
SCE1572_9787	Glycolate oxidase (EC 1.1.3.15)	bi	sce_8585	92.37	Glycolate oxidase (EC 1.1.3.15)
SCE1572_9788	unknown	bi	sce_8586	79.94	unknown
SCE1572_9789	Hypothetical protein	bi	sce_8587	81.3	Hypothetical protein
SCE1572_9790	hypothetical protein	bi	sce_220	82.78	FIG01089623: hypothetical protein
SCE1572_9791	hypothetical protein	-		0	
SCE1572_9792	Gll2422 protein	bi	sce_7989	85.51	Gll2422 protein
SCE1572_9793	FIG01086797: hypothetical protein	bi	sce_8605	91.98	FIG01086797: hypothetical protein
SCE1572_9794	FIG01086088: hypothetical protein	bi	sce_8606	88.63	FIG01086088: hypothetical protein
SCE1572_9795	hypothetical protein	-		0	
SCE1572_9796	hypothetical protein	bi	sce_8607	77.46	hypothetical protein
SCE1572_9797	hypothetical protein	bi	sce_8608	58.02	hypothetical protein
SCE1572_9798	hypothetical protein	bi	sce_8609	79.1	hypothetical protein
SCE1572_9799	hypothetical protein	bi	sce_8610	91.67	hypothetical protein
SCE1572_9800	RsbR, positive regulator of sigma-B	uni	sce_5390	48.13	RsbR, positive regulator of sigma-B
SCE1572_9801	hypothetical protein	uni	sce_800	28.21	conserved hypothetical protein
SCE1572_9802	hypothetical protein	uni	sce_10099	34.31	hypothetical protein, mmyy
SCE1572_9803	probable transcriptional regulator, AraC family	uni	sce_9866	37.96	Transcriptional regulator, AraC family
SCE1572_9804	hypothetical protein	-		0	
SCE1572_9805	alkaline serine protease	bi	sce_8612	91.71	alkaline serine protease
SCE1572_9806	hypothetical protein	uni	sce_4576	27.6	Glycine-rich cell wall structural protein 1.8 precursor
SCE1572_9807	RNA-binding protein	bi	sce_8613	90.7	RNA-binding protein
SCE1572_9808	Enolase (EC 4.2.1.11)	bi	sce_8614	95.82	Enolase (EC 4.2.1.11)
SCE1572_9809	hypothetical protein	bi	sce_8615	86.32	hypothetical protein
SCE1572_9810	IcmF-related protein	bi	sce_8616	87.26	ImcF domain protein
SCE1572_9811	hypothetical protein	-		0	
SCE1572_9812	Signal transduction histidine kinase CheA (EC 2.7.3.-)	bi	sce_8618	78.38	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_9813	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-)	bi	sce_8619	83.2	putative response regulator
SCE1572_9814	small heat shock protein	bi	sce_8620	78.49	Molecular chaperone (small heat shock protein)
SCE1572_9815	FIG01086053: hypothetical protein	bi	sce_9398	84.75	FIG01086053: hypothetical protein
SCE1572_9816	Periplasmic thiol:disulfide interchange protein DsbA	bi	sce_8621	85.37	Periplasmic thiol:disulfide interchange protein DsbA
SCE1572_9817	D-alanine--D-alanine ligase (EC 6.3.2.4)	uni	sce_940	45.83	VgrG protein
SCE1572_9818	Putative protein-S-isoprenylcysteine methyltransferase	-		0	
SCE1572_9819	Transcriptional regulator, TetR family	bi	sce_6665	51.11	Transcriptional regulator, TetR family
SCE1572_9820	FIG01086385: hypothetical protein	bi	sce_8622	73.01	FIG01086385: hypothetical protein
SCE1572_9821	hypothetical protein	bi	sce_8623	87.68	Uncharacterized protein conserved in bacteria, NMA0228-like
SCE1572_9822	Conserved domain protein	bi	sce_8624	81.09	Conserved domain protein
SCE1572_9823	penicillin G acylase, putative	uni	sce_1477	32.39	Predicted thiol oxidoreductase
SCE1572_9824	hypothetical protein	uni	sce_3766	57.23	hypothetical protein
SCE1572_9825	hypothetical protein	-		0	
SCE1572_9826	hypothetical protein	-		0	
SCE1572_9827	hypothetical protein	-		0	
SCE1572_9828	hypothetical protein	-		0	
SCE1572_9829	hypothetical protein	-		0	
SCE1572_9830	hypothetical protein	-		0	
SCE1572_9831	RNA polymerase sigma-70 factor, ECF subfamily	uni	sce_6097	35.45	RNA polymerase sigma factor RpoE
SCE1572_9832	hypothetical protein	uni	sce_5955	36.96	serine/threonine protein kinase
SCE1572_9833	Periplasmic thiol:disulfide interchange protein DsbA	uni	sce_576	43.68	DsbA oxidoreductase
SCE1572_9834	Mobile element protein	uni	sce_1676	74.65	Mobile element protein
SCE1572_9835	carboxylesterase, putative	bi	sce_7133	92.27	phospholipase/carboxylesterase family protein
SCE1572_9836	hypothetical protein	bi	sce_8655	95.4	hypothetical protein
SCE1572_9837	Glutathione S-transferase (EC 2.5.1.18)	bi	sce_8650	97.14	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_9838	ATP-DEPENDENT DNA HELICASE	uni	sce_8635	84.57	ATP-DEPENDENT DNA HELICASE
SCE1572_9839	hypothetical protein	-		0	

SCE1572_9840	hypothetical protein	-		0	
SCE1572_9841	hypothetical protein	-		0	
SCE1572_9842	FIG01087249: hypothetical protein	uni	sce_2338	93.48	Transposase
SCE1572_9843	FIG01087249: hypothetical protein	uni	sce_2338	92.86	Transposase
SCE1572_9844	hypothetical protein	-		0	
SCE1572_9845	Fibroin heavy chain precursor (Fib-H) (H-fibroin)	bi	sce_3901	20.99	FG-GAP repeat domain protein
SCE1572_9846	hypothetical protein	bi	sce_6419	64.58	hypothetical protein
SCE1572_9847	ATP-DEPENDENT DNA HELICASE	bi	sce_8635	90.77	ATP-DEPENDENT DNA HELICASE
SCE1572_9848	hypothetical protein	-		0	
SCE1572_9849	Serine-threonine protein kinase	bi	sce_8638	73.63	Serine-threonine protein kinase
SCE1572_9850	hypothetical protein	bi	sce_6016	72.92	hypothetical protein
SCE1572_9851	hypothetical protein	uni	sce_147	71.11	Bifunctional protein: zinc-containing alcohol dehydrogenase; quinone oxidoreductase (NADPH:quinone reductase) (EC 1.1.1.-); Sin
SCE1572_9852	hypothetical protein	-		0	
SCE1572_9853	Oxidoreductase (EC 1.1.1.-)	bi	sce_8645	84.97	Oxidoreductase (EC 1.1.1.-)
SCE1572_9854	Tat (Twin-arginine translocation) pathway signal sequence domain protein	bi	sce_8657	85.12	hypothetical protein
SCE1572_9855	Cellulose-binding domain protein	bi	sce_8658	85.19	Cellulose-binding domain protein
SCE1572_9856	Tissue factor pathway inhibitor 2 precursor (TFPI-2)	bi	sce_2572	70.31	Tissue factor pathway inhibitor 2 precursor (TFPI-2)
SCE1572_9857	predicted protein	bi	sce_8667	90	Ser/Thr protein phosphatase, putative
SCE1572_9858	putative minor silk ampullate protein	bi	sce_8668	78.52	putative minor silk ampullate protein
SCE1572_9859	Tat (twin-arginine translocation) pathway signal sequence domain protein	bi	sce_8669	89.09	Tat (twin-arginine translocation) pathway signal sequence domain protein
SCE1572_9860	Conserved protein, with a weak D-galactarate dehydratase/altronate hydrolase domain	uni	sce_6222	66.18	Conserved protein, with a weak D-galactarate dehydratase/altronate hydrolase domain
SCE1572_9861	hypothetical protein	uni	sce_7361	48.25	AAA ATPase
SCE1572_9862	hypothetical protein	bi	sce_10286	26.53	hypothetical protein
SCE1572_9863	hypothetical protein	-		0	
SCE1572_9864	FIG01089571: hypothetical protein	bi	sce_8675	89.55	FIG01089571: hypothetical protein
SCE1572_9865	hypothetical protein	bi	sce_8676	88.09	hypothetical protein
SCE1572_9866	Putative deoxyribose-specific ABC transporter, ATP-binding protein	bi	sce_8677	93.32	Putative deoxyribose-specific ABC transporter, ATP-binding protein
SCE1572_9867	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	bi	sce_8678	92.5	nucleoside transport system permease protein
SCE1572_9868	inner-membrane translocator	bi	sce_8679	91.74	inner-membrane translocator
SCE1572_9869	FIG01089215: hypothetical protein	bi	sce_8680	93.26	FIG01089215: hypothetical protein
SCE1572_9870	hypothetical protein	bi	sce_8681	82.47	hypothetical protein
SCE1572_9871	Putative cytochrome c oxidase subunit II (EC 1.9.3.1)	bi	sce_8682	85.97	Putative cytochrome c oxidase subunit II (EC 1.9.3.1)
SCE1572_9872	FIG01088846: hypothetical protein	bi	sce_8685	92.68	FIG01088846: hypothetical protein
SCE1572_9873	NAD(P)H dehydrogenase (quinone)	bi	sce_9440	84.62	NAD(P)H dehydrogenase (quinone)
SCE1572_9874	FIG01089066: hypothetical protein	bi	sce_9439	86.73	FIG01089066: hypothetical protein
SCE1572_9875	hypothetical protein	-		0	
SCE1572_9876	Transcriptional regulator, MarR family	bi	sce_8692	95.35	Transcriptional regulator, MarR family
SCE1572_9877	hypothetical protein	-		0	
SCE1572_9878	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_5211	46	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_9879	transcriptional regulator, MerR family	uni	sce_6525	37.68	methyltransferase type 11
SCE1572_9880	hypothetical protein	bi	sce_5093	79.45	hypothetical protein
SCE1572_9881	Predicted membrane protein/domain	uni	sce_1971	28.74	keratin associated protein
SCE1572_9882	NADPH-dependent FMN reductase	bi	sce_2092	93.48	NADPH-dependent FMN reductase
SCE1572_9883	hypothetical protein	-		0	
SCE1572_9884	Enterochelin esterase and related enzymes	-		0	
SCE1572_9885	Sigma-54 dependent transcriptional regulator; Response regulator receiver domain / Serine-protein kinase RsbW (EC 2.7.11.1)	bi	sce_8696	91.21	Sigma-54 dependent transcriptional regulator; Response regulator receiver domain / Serine-protein kinase RsbW (EC 2.7.11.1)
SCE1572_9886	Sensory box histidine kinase/response regulator	bi	sce_8697	84.74	Sensory box histidine kinase/response regulator
SCE1572_9887	Maltose/maltodextrin ABC transporter, permease protein MalG	bi	sce_8698	91.26	Maltose/maltodextrin ABC transporter, permease protein MalG
SCE1572_9888	Maltose/maltodextrin ABC transporter, permease protein MalF	bi	sce_8699	86.72	Maltose/maltodextrin ABC transporter, permease protein MalF
SCE1572_9889	SN-glycerol-3-phosphate transport ATP-binding protein ugpC (TC 3.A.1.1.3)	bi	sce_8700	92.37	SN-glycerol-3-phosphate transport ATP-binding protein ugpC (TC 3.A.1.1.3)
SCE1572_9890	Maltodextrin glucosidase (EC 3.2.1.20)	bi	sce_8701	79.39	Maltodextrin glucosidase (EC 3.2.1.20)
SCE1572_9891	FIG01085109: hypothetical protein	uni	sce_3858	33.48	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_9892	hypothetical protein	bi	sce_8703	84.21	hypothetical protein
SCE1572_9893	WD-40 repeat protein	bi	sce_8704	83.44	WD-40 repeat protein
SCE1572_9894	hypothetical protein	bi	sce_8705	82.61	hypothetical protein
SCE1572_9895	Serine/threonine-protein kinase pksC (EC 2.7.11.1)	bi	sce_8706	83.1	Serine/threonine-protein kinase pksC (EC 2.7.11.1)
SCE1572_9896	Serine/threonine-protein kinase pksC (EC 2.7.11.1)	uni	sce_8706	80.47	Serine/threonine-protein kinase pksC (EC 2.7.11.1)
SCE1572_9897	UTP--glucose-1-phosphate uridylyltransferase (EC 2.7.7.9)	bi	sce_8707	43.1	hypothetical protein
SCE1572_9898	hypothetical protein	bi	sce_8708	80.88	hypothetical protein
SCE1572_9899	FIG01088098: hypothetical protein	bi	sce_8709	87.28	FIG01088098: hypothetical protein
SCE1572_9900	Di-/tripeptide transporter	bi	sce_8710	91.72	Di-/tripeptide transporter
SCE1572_9901	hypothetical protein	uni	sce_3858	43.16	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_9902	Tyrosine recombinase XerC	bi	sce_8712	86.93	Tyrosine recombinase XerC
SCE1572_9903	sulfatase(EC:3.1.6.6)	bi	sce_8713	91.04	Choline-sulfatase (EC 3.1.6.6)
SCE1572_9904	hypothetical protein	bi	sce_7561	51.66	hypothetical protein
SCE1572_9905	hypothetical protein	-		0	
SCE1572_9906	Homoserine/homoserine lactone efflux protein	uni	sce_3615	28.9	Transporter, LysE family
SCE1572_9907	MoxR-like ATPases	bi	sce_8718	98.06	MoxR-like ATPases
SCE1572_9908	hypothetical protein	bi	sce_8719	88.39	hypothetical protein
SCE1572_9909	FIG01087827: hypothetical protein	uni	sce_100	76.64	FIG01087827: hypothetical protein
SCE1572_9910	FIG01085607: hypothetical protein	bi	sce_8720	64.5	FIG01085607: hypothetical protein
SCE1572_9911	LysR-family transcriptional regulator	bi	sce_8721	85.13	LysR-family transcriptional regulator
SCE1572_9912	Hemoglobin-like protein HbO	bi	sce_8722	83.96	Hemoglobin-like protein HbO
SCE1572_9913	hypothetical protein	-		0	
SCE1572_9914	hypothetical protein	bi	sce_8724	80.77	hypothetical protein
SCE1572_9915	sensor histidine kinase	bi	sce_8725	88.02	sensor histidine kinase
SCE1572_9916	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_8726	97.83	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_9917	FIG01086248: hypothetical protein	bi	sce_8727	80.69	FIG01086248: hypothetical protein
SCE1572_9918	Inner membrane protein YrbG, predicted calcium/sodium:proton antiporter	-		0	
SCE1572_9919	hypothetical protein	bi	sce_3796	62.7	hypothetical protein
SCE1572_9920	cysteine-rich repeat protein	uni	sce_3794	53.44	Type IV fimbrial biogenesis protein PilY1
SCE1572_9921	Mg-chelatase subunit ChlD	bi	sce_8730	94.19	Mg-chelatase subunit ChlD
SCE1572_9922	hypothetical protein	-		0	
SCE1572_9923	response regulator	bi	sce_8731	90.95	two-component regulator
SCE1572_9924	Two-component hybrid sensor and regulator	bi	sce_8732	95.37	Two-component hybrid sensor and regulator
SCE1572_9925	Two-component hybrid sensor and regulator	uni	sce_8732	94.44	Two-component hybrid sensor and regulator
SCE1572_9926	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_8733	91.78	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_9927	Sensor histidine kinase	bi	sce_8734	80.78	Sensor histidine kinase
SCE1572_9928	Transcriptional regulator, HxlR family	bi	sce_8735	86.15	Transcriptional regulator, HxlR family
SCE1572_9929	hypothetical protein	-		0	
SCE1572_9930	FOG: HEAT repeat	bi	sce_8737	88.35	FOG: HEAT repeat
SCE1572_9931	Two-component response regulator	bi	sce_8738	94.29	Two-component response regulator
SCE1572_9932	hypothetical protein	-		0	
SCE1572_9933	Multi-sensor Hybrid Histidine Kinase(EC:3.1.1.61)	uni	sce_5714	68.8	Phytochrome, two-component sensor histidine kinase (EC 2.7.3.-); Cyanobacterial phytochrome B
SCE1572_9934	hypothetical protein	-		0	
SCE1572_9935	hypothetical protein	bi	sce_8739	75.11	hypothetical protein
SCE1572_9936	Chromosome (plasmid) partitioning protein ParA	bi	sce_8740	94.71	Chromosome (plasmid) partitioning protein ParA
SCE1572_9937	hypothetical protein	-		0	
SCE1572_9938	hypothetical protein	-		0	
SCE1572_9939	hypothetical protein	bi	sce_6035	78.8	hypothetical protein
SCE1572_9940	hypothetical protein	-		0	
SCE1572_9941	Alkanesulfonate monooxygenase (EC 1.14.14.5)	uni	sce_5504	50.69	Alkanesulfonate monooxygenase (EC 1.14.14.5)
SCE1572_9942	hypothetical protein	bi	sce_8792	91.38	hypothetical protein
SCE1572_9943	hypothetical protein	bi	sce_8791	84.34	hypothetical protein
SCE1572_9944	hypothetical protein	-		0	
SCE1572_9945	hypothetical protein	-		0	
SCE1572_9946	Gll0642 protein	bi	sce_3894	84.13	Gll0642 protein
SCE1572_9947	hypothetical protein	-		0	
SCE1572_9948	hypothetical protein	-		0	
SCE1572_9949	hypothetical protein	bi	sce_6031	61.43	FIG01088619: hypothetical protein
SCE1572_9950	RsbR, positive regulator of sigma-B	bi	sce_8747	80.96	RsbR, positive regulator of sigma-B
SCE1572_9951	Adenosylhomocysteinase (EC 3.3.1.1)	bi	sce_8749	86.12	hypothetical protein
SCE1572_9952	UDP-N-acetylenolpyruvoylglucosamine reductase (EC 1.1.1.158)	bi	sce_8750	86.25	UDP-N-acetylenolpyruvoylglucosamine reductase (EC 1.1.1.158)
SCE1572_9953	VgrG protein	bi	sce_7598	72.44	VgrG protein
SCE1572_9954	pentapeptide repeat family protein	bi	sce_7599	73.07	hypothetical protein
SCE1572_9955	pentapeptide repeat family protein	bi	sce_7600	80.11	pentapeptide repeat
SCE1572_9956	FIG01088521: hypothetical protein	bi	sce_7601	81.94	FIG01088521: hypothetical protein
SCE1572_9957	conserved hypothetical protein	bi	sce_7602	62.96	hypothetical protein
SCE1572_9958	hypothetical protein	bi	sce_7603	76.92	hypothetical protein
SCE1572_9959	Serine/threonine protein kinase (EC 2.7.11.1)	bi	sce_9664	70.71	Serine/threonine protein kinase (EC 2.7.11.1)
SCE1572_9960	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_9662	80.28	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_9961	hypothetical protein	-		0	
SCE1572_9962	hypothetical protein	-		0	
SCE1572_9963	YD repeat protein	bi	sce_8755	86.05	hypothetical protein
SCE1572_9964	hypothetical protein	bi	sce_8753	80.56	YD repeat protein
SCE1572_9965	hypothetical protein	-		0	
SCE1572_9966	Ser/Arg-related nuclear matrix protein	bi	sce_3146	37.57	FIG01085660: hypothetical protein
SCE1572_9967	Chorismate mutase I (EC 5.4.99.5) / Prephenate dehydratase (EC 4.2.1.51)	bi	sce_8760	92.2	Chorismate mutase I (EC 5.4.99.5) / Prephenate dehydratase (EC 4.2.1.51)
SCE1572_9968	UL36 very large tegument protein	bi	sce_8762	67.8	hypothetical protein
SCE1572_9969	RNA polymerase sigma-70 factor, ECF subfamily	bi	sce_8763	83.7	RNA polymerase sigma-70 factor, ECF subfamily
SCE1572_9970	OmpA/MotB	bi	sce_8765	69.7	Exonuclease SbcC
SCE1572_9971	hypothetical protein	bi	sce_8766	77.58	hypothetical protein
SCE1572_9972	MSHA biogenesis protein MshL	bi	sce_8767	77.54	MSHA biogenesis protein MshL
SCE1572_9973	hypothetical protein	bi	sce_8768	87.97	hypothetical protein
SCE1572_9974	FIG01089539: hypothetical protein	bi	sce_8770	83.7	FIG01089539: hypothetical protein
SCE1572_9975	Fusaric acid resistance protein	bi	sce_8771	77.32	Fusaric acid resistance protein
SCE1572_9976	hypothetical protein	-		0	
SCE1572_9977	lectin C-type domain protein	bi	sce_8773	74.7	lectin C-type domain protein
SCE1572_9978	Chitodextrinase precursor (EC 3.2.1.14)	uni	sce_4105	43.48	Chitodextrinase precursor (EC 3.2.1.14)
SCE1572_9979	hypothetical protein	-		0	
SCE1572_9980	3-demethylubiquinone-9 3-O-methyltransferase(EC:2.1.1.64)	bi	sce_8776	92	hypothetical protein
SCE1572_9981	Coenzyme F390 synthetase	bi	sce_8777	93.31	Phenylacetate--CoA ligase(EC:6.2.1.30)
SCE1572_9982	Iron-sulfur cluster-binding protein	bi	sce_8778	92.46	Iron-sulfur cluster-binding protein
SCE1572_9983	FIG01088113: hypothetical protein	bi	sce_7926	54.43	FIG01088113: hypothetical protein
SCE1572_9984	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_8784	74.53	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_9985	Regulatory protein, LysR:LysR, substrate-binding	bi	sce_5809	83.97	Regulatory protein, LysR:LysR, substrate-binding
SCE1572_9986	FIG01086158: hypothetical protein	bi	sce_5808	74.74	FIG01086158: hypothetical protein
SCE1572_9987	Similarity	bi	sce_8796	81.14	Similarity
SCE1572_9988	hypothetical protein	bi	sce_8797	68.48	hypothetical protein
SCE1572_9989	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_8798	93.93	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_9990	FIG01088423: hypothetical protein	bi	sce_8799	81.61	FIG01088423: hypothetical protein
SCE1572_9991	putative cytochrome P450 hydroxylase	bi	sce_8803	90.02	putative cytochrome P450 hydroxylase
SCE1572_9992	hypothetical protein	-		0	
SCE1572_9993	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_841	72.15	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_9994	Carbohydrate binding family 6	uni	sce_841	58.82	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_9995	hypothetical protein	uni	sce_5962	37.34	Similarity
SCE1572_9996	sensor histidine kinase	bi	sce_8812	89.08	sensor histidine kinase
SCE1572_9997	Methionyl-tRNA synthetase (EC 6.1.1.10)	bi	sce_8818	94.81	Methionyl-tRNA synthetase (EC 6.1.1.10)
SCE1572_9998	Dehydrogenase	bi	sce_8820	82.87	Dehydrogenase
SCE1572_9999	RNA polymerase sigma-70 factor, ECF subfamily	bi	sce_8821	83.49	RNA polymerase sigma-70 factor, ECF subfamily
SCE1572_10000	hypothetical protein	bi	sce_8822	93.52	hypothetical protein
SCE1572_10001	hypothetical protein	-		0	
SCE1572_10002	Intramembrane protease RasP/YluC, implicated in cell division based on FtsL cleavage	bi	sce_8823	96.94	Intramembrane protease RasP/YluC, implicated in cell division based on FtsL cleavage
SCE1572_10003	Ribosomal RNA small subunit methyltransferase B (EC 2.1.1.-)	bi	sce_8824	87.9	Ribosomal RNA small subunit methyltransferase B (EC 2.1.1.-)

SCE1572_10004	AAA ATPase	uni	sce_7361	68.54	AAA ATPase
SCE1572_10005	AAA ATPase	uni	sce_7361	72.46	AAA ATPase
SCE1572_10006	hypothetical protein	bi	sce_8830	87.13	hypothetical protein
SCE1572_10007	RD1 region associated protein Rv3879c	bi	sce_8831	75.22	RD1 region associated protein Rv3879c
SCE1572_10008	blr2149; hypothetical protein	bi	sce_8832	65.56	Serine/threonine protein kinase PpkA
SCE1572_10009	RNA polymerase sigma factor RpoE	bi	sce_8833	78.55	RNA polymerase sigma factor RpoE
SCE1572_10010	hypothetical protein	bi	sce_8834	75.32	hypothetical protein
SCE1572_10011	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_8835	97.67	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_10012	HtrA family serine protease	bi	sce_8836	83.86	HtrA family serine protease
SCE1572_10013	RNA polymerase sigma factor RpoE	bi	sce_8837	95.31	RNA polymerase sigma factor RpoE
SCE1572_10014	Outer membrane protein	bi	sce_8838	79.4	Outer membrane protein
SCE1572_10015	Hypothetical protein	bi	sce_8839	90.07	Hypothetical protein
SCE1572_10016	Serine-threonine protein kinase	bi	sce_8840	65.61	hypothetical protein
SCE1572_10017	3-hydroxybutyryl-CoA dehydrogenase (EC 1.1.1.157); 3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)	bi	sce_8841	91.75	3-hydroxybutyryl-CoA dehydrogenase (EC 1.1.1.157); 3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)
SCE1572_10018	FIG01088755: hypothetical protein	bi	sce_9498	94.4	FIG01088755: hypothetical protein
SCE1572_10019	FIG01086239: hypothetical protein	bi	sce_9499	95.44	FIG01086239: hypothetical protein
SCE1572_10020	FIG01088755: hypothetical protein	bi	sce_9500	88.15	hypothetical protein
SCE1572_10021	hypothetical protein	bi	sce_9501	91.77	hypothetical protein
SCE1572_10022	hypothetical protein	uni	sce_9503	87.87	hypothetical protein
SCE1572_10023	hypothetical protein	uni	sce_9503	77.23	hypothetical protein
SCE1572_10024	hypothetical protein	uni	sce_9504	72.38	hypothetical protein
SCE1572_10025	FIG01086605: hypothetical protein	bi	sce_8463	81.78	FIG01086605: hypothetical protein
SCE1572_10026	Circumsporozoite protein	bi	sce_8842	85.23	Circumsporozoite protein
SCE1572_10027	Seroreactive antigen BMN1-7	bi	sce_8843	84.18	Seroreactive antigen BMN1-7
SCE1572_10028	pseudouridylate synthase	bi	sce_8844	86.54	pseudouridine synthase, RluA family(EC:4.2.1.70)
SCE1572_10029	Phosphoenolpyruvate synthase (EC 2.7.9.2)	bi	sce_8845	82.89	Phosphoenolpyruvate synthase (EC 2.7.9.2)
SCE1572_10030	hypothetical protein	bi	sce_8846	83.76	putative esterase
SCE1572_10031	putative amino-acid permease protein	uni	sce_5501	30.42	Urea carboxylase-related amino acid permease
SCE1572_10032	Lignostilbene-alpha,beta-dioxygenase and related enzymes	-		0	
SCE1572_10033	hypothetical abductin-like protein	bi	sce_8847	80.86	hypothetical abductin-like protein
SCE1572_10034	serine/threonine protein kinase	bi	sce_8851	77.51	serine/threonine protein kinase
SCE1572_10035	TonB protein	uni	sce_4768	58.62	Ferric siderophore transport system, periplasmic binding protein TonB
SCE1572_10036	hypothetical protein	bi	sce_8852	88.82	hypothetical protein
SCE1572_10037	conserved hypothetical protein	bi	sce_8853	84	conserved hypothetical protein
SCE1572_10038	Penicillin-insensitive murein endopeptidase A	bi	sce_8854	85.27	Penicillin-insensitive murein endopeptidase A
SCE1572_10039	Formamidopyrimidine-DNA glycosylase (EC 3.2.2.23)	uni	sce_3926	34.22	Formamidopyrimidine-DNA glycosylase (EC 3.2.2.23)
SCE1572_10040	RecD-like DNA helicase YrrC	bi	sce_8856	94.25	RecD-like DNA helicase YrrC
SCE1572_10041	hypothetical protein	-		0	
SCE1572_10042	TPR repeat	bi	sce_8858	95.76	TPR repeat
SCE1572_10043	Cof-like hydrolase	bi	sce_8859	91.4	hypothetical protein
SCE1572_10044	LSU ribosomal protein L27p	bi	sce_8860	100	LSU ribosomal protein L27p
SCE1572_10045	LSU ribosomal protein L21p	bi	sce_8861	98.04	LSU ribosomal protein L21p
SCE1572_10046	ClpB protein	bi	sce_8862	97.01	ClpB protein
SCE1572_10047	Glutaredoxin 3	bi	sce_8863	79.8	Glutaredoxin 3
SCE1572_10048	serine/threonine protein kinase	bi	sce_8864	85.19	serine/threonine protein kinase
SCE1572_10049	tetratricopeptide repeat protein	bi	sce_8865	86.92	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex (EC 2.3.1.12)
SCE1572_10050	Acetyl-coenzyme A synthetase (EC 6.2.1.1)	bi	sce_8866	95.42	Acetyl-coenzyme A synthetase (EC 6.2.1.1)
SCE1572_10051	serine/threonine protein kinase	bi	sce_8868	79.92	serine/threonine protein kinase
SCE1572_10052	integral membrane sensor signal transduction histidine kinase	bi	sce_8869	90.83	sensor histidine kinase
SCE1572_10053	Iron-sulphur-binding reductase	bi	sce_8870	90.66	protein of unknown function DUF224, cysteine-rich region domain protein
SCE1572_10054	Adenylate cyclase (EC 4.6.1.1)	bi	sce_8871	85.65	Adenylate cyclase (EC 4.6.1.1)
SCE1572_10055	Transcription termination factor Rho	bi	sce_8872	99.76	Transcription termination factor Rho
SCE1572_10056	Acylphosphate phosphohydrolase (EC 3.6.1.7), putative	bi	sce_8873	100	Acylphosphate phosphohydrolase (EC 3.6.1.7), putative
SCE1572_10057	AGR138Wp	bi	sce_8874	71.93	putative membrane protein
SCE1572_10058	LSU ribosomal protein L17p	bi	sce_8875	97.39	LSU ribosomal protein L17p
SCE1572_10059	DNA-directed RNA polymerase alpha subunit (EC 2.7.7.6)	bi	sce_8876	99.71	DNA-directed RNA polymerase alpha subunit (EC 2.7.7.6)
SCE1572_10060	hypothetical protein	-		0	
SCE1572_10061	SSU ribosomal protein S4p (S9e)	bi	sce_8878	98.56	SSU ribosomal protein S4p (S9e)
SCE1572_10062	SSU ribosomal protein S11p (S14e)	bi	sce_8879	99.26	SSU ribosomal protein S11p (S14e)
SCE1572_10063	SSU ribosomal protein S13p (S18e)	bi	sce_8880	96.03	SSU ribosomal protein S13p (S18e)
SCE1572_10064	LSU ribosomal protein L36p	bi	sce_8881	100	LSU ribosomal protein L36p
SCE1572_10065	Translation initiation factor 1	bi	sce_8882	96.39	Translation initiation factor 1
SCE1572_10066	Adenylate kinase (EC 2.7.4.3)	bi	sce_8883	93.02	Adenylate kinase (EC 2.7.4.3)
SCE1572_10067	Preprotein translocase secY subunit (TC 3.A.5.1.1)	bi	sce_8884	97.51	Preprotein translocase secY subunit (TC 3.A.5.1.1)
SCE1572_10068	LSU ribosomal protein L15p (L27Ae)	bi	sce_8885	90.71	LSU ribosomal protein L15p (L27Ae)
SCE1572_10069	LSU ribosomal protein L30p (L7e)	bi	sce_8886	91.04	LSU ribosomal protein L30p (L7e)
SCE1572_10070	SSU ribosomal protein S5p (S2e)	bi	sce_8887	95.1	SSU ribosomal protein S5p (S2e)
SCE1572_10071	LSU ribosomal protein L18p (L5e)	bi	sce_8888	97.48	LSU ribosomal protein L18p (L5e)
SCE1572_10072	LSU ribosomal protein L6p (L9e)	bi	sce_8889	94.74	LSU ribosomal protein L6p (L9e)
SCE1572_10073	SSU ribosomal protein S8p (S15Ae)	bi	sce_8890	96.95	SSU ribosomal protein S8p (S15Ae)
SCE1572_10074	SSU ribosomal protein S14p (S29e)	bi	sce_8891	98.36	SSU ribosomal protein S14p (S29e)
SCE1572_10075	LSU ribosomal protein L5p (L11e)	bi	sce_8892	94.65	LSU ribosomal protein L5p (L11e)
SCE1572_10076	LSU ribosomal protein L24p (L26e)	bi	sce_8893	96.19	LSU ribosomal protein L24p (L26e)
SCE1572_10077	LSU ribosomal protein L14p (L23e)	bi	sce_8894	98.36	LSU ribosomal protein L14p (L23e)
SCE1572_10078	SSU ribosomal protein S17p (S11e)	bi	sce_8895	96.49	SSU ribosomal protein S17p (S11e)
SCE1572_10079	LSU ribosomal protein L29p (L35e)	bi	sce_8896	100	LSU ribosomal protein L29p (L35e)
SCE1572_10080	LSU ribosomal protein L16p (L10e)	bi	sce_8897	97.08	LSU ribosomal protein L16p (L10e)
SCE1572_10081	SSU ribosomal protein S3p (S3e)	bi	sce_8898	99.57	SSU ribosomal protein S3p (S3e)
SCE1572_10082	LSU ribosomal protein L22p (L17e)	bi	sce_8899	100	LSU ribosomal protein L22p (L17e)
SCE1572_10083	putative secreted protein	bi	sce_8901	61.63	putative secreted protein
SCE1572_10084	FIG01085003: hypothetical protein	bi	sce_8902	83.11	FIG01085003: hypothetical protein
SCE1572_10085	unknown	bi	sce_8903	81.89	unknown
SCE1572_10086	Histone-like protein	bi	sce_8904	94.38	Histone-like protein
SCE1572_10087	hypothetical protein	-		0	
SCE1572_10088	hypothetical protein	-		0	
SCE1572_10089	FIG01087145: hypothetical protein	bi	sce_8905	87.33	FIG01087145: hypothetical protein
SCE1572_10090	Phosphate starvation-inducible protein PhoH, predicted ATPase	bi	sce_8907	97.99	Phosphate starvation-inducible protein PhoH, predicted ATPase
SCE1572_10091	FIG01089318: hypothetical protein	bi	sce_8909	76.6	FIG01089318: hypothetical protein
SCE1572_10092	Cell division protein FtsI [Peptidoglycan synthetase] (EC 2.4.1.129)	bi	sce_8910	94.33	Cell division protein FtsI [Peptidoglycan synthetase] (EC 2.4.1.129)
SCE1572_10093	hypothetical protein	bi	sce_8911	100	hypothetical protein
SCE1572_10094	hypothetical protein	bi	sce_8912	86.67	hypothetical protein
SCE1572_10095	FIG01086079: hypothetical protein	bi	sce_8913	84.21	FIG01086079: hypothetical protein
SCE1572_10096	FOG: WD40 repeat	bi	sce_8914	87.72	FOG: WD40 repeat
SCE1572_10097	hypothetical protein	bi	sce_8915	82.43	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_10098	Methionyl-tRNA formyltransferase (EC 2.1.2.9)	bi	sce_8916	92.55	Methionyl-tRNA formyltransferase (EC 2.1.2.9)
SCE1572_10099	Cell division transporter, ATP-binding protein FtsE (TC 3.A.5.1.1)	bi	sce_8917	96.34	Cell division transporter, ATP-binding protein FtsE (TC 3.A.5.1.1)
SCE1572_10100	Cell division protein FtsX	bi	sce_8918	95.96	Cell division protein FtsX
SCE1572_10101	Periplasmic septal ring factor with murein hydrolase activity EnvC/YibP	bi	sce_8919	91.72	peptidase M23B
SCE1572_10102	Ribonuclease PH (EC 2.7.7.56)	bi	sce_8920	93.77	Ribonuclease PH (EC 2.7.7.56)
SCE1572_10103	Nucleoside 5-triphosphatase RdgB (dHAPTP, dITP, XTP-specific) (EC 3.6.1.15)	bi	sce_8921	86.47	Nucleoside 5-triphosphatase RdgB (dHAPTP, dITP, XTP-specific) (EC 3.6.1.15)
SCE1572_10104	ATP synthase protein I	bi	sce_8922	76.61	ATP synthase protein I
SCE1572_10105	FIG048548: ATP synthase protein I2	bi	sce_8923	86.36	FIG048548: ATP synthase protein I2
SCE1572_10106	ATP synthase A chain (EC 3.6.3.14)	bi	sce_8924	97.25	ATP synthase A chain (EC 3.6.3.14)
SCE1572_10107	ATP synthase C chain (EC 3.6.3.14)	bi	sce_8925	100	ATP synthase C chain (EC 3.6.3.14)
SCE1572_10108	hypothetical protein	bi	sce_8926	89.18	hypothetical protein
SCE1572_10109	Gb|AAD23008.1	bi	sce_8927	83.33	Gb|AAD23008.1
SCE1572_10110	Gb|AAD23008.1	uni	sce_4432	86.84	hypothetical protein
SCE1572_10111	FIG01089283: hypothetical protein	bi	sce_8928	92.18	FIG01089283: hypothetical protein
SCE1572_10112	hypothetical protein	-		0	
SCE1572_10113	predicted tail fiber protein	uni	sce_3821	30.1	DNA topoisomerase III (EC 5.99.1.2)
SCE1572_10114	hypothetical protein	uni	sce_3858	41.82	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_10115	Cell division protein FtsK	bi	sce_8930	80.85	Cell division protein FtsK
SCE1572_10116	putative exported protein of unknown function with OmpA family domain	uni	sce_1486	37.55	VgrG protein
SCE1572_10117	RD1 region associated protein Rv3876	bi	sce_8934	67.89	RD1 region associated protein Rv3876
SCE1572_10118	hypothetical membrane protein	bi	sce_8935	87.87	hypothetical membrane protein
SCE1572_10119	hypothetical protein	bi	sce_8937	83.38	hypothetical protein
SCE1572_10120	Intramembrane protease RasP/YluC, implicated in cell division based on FtsL cleavage	bi	sce_8938	89.95	Intramembrane protease RasP/YluC, implicated in cell division based on FtsL cleavage
SCE1572_10121	hypothetical protein	bi	sce_8939	86.7	hypothetical protein
SCE1572_10122	hypothetical protein	bi	sce_8940	87.46	hypothetical protein
SCE1572_10123	unknown	bi	sce_8941	66.52	hypothetical protein
SCE1572_10124	Gll0645 protein	uni	sce_1146	32.49	Gll0645 protein
SCE1572_10125	Single-stranded DNA-binding protein	uni	sce_7913	53.62	serine/threonine protein kinase
SCE1572_10126	Cell division protein FtsH (EC 3.4.24.-)	uni	sce_1829	57.14	Cell division protein FtsH (EC 3.4.24.-)
SCE1572_10127	Cell division protein FtsH (EC 3.4.24.-)	uni	sce_1829	54.12	Cell division protein FtsH (EC 3.4.24.-)
SCE1572_10128	hypothetical protein	-		0	
SCE1572_10129	hypothetical protein	-		0	
SCE1572_10130	Chromosome undetermined SCAF14611, whole genome shotgun sequence	bi	sce_8942	90.76	Chromosome undetermined SCAF14611, whole genome shotgun sequence
SCE1572_10131	hypothetical protein	uni	sce_6133	43.49	Twin-arginine translocation protein TatB
SCE1572_10132	Heat shock protein 60 family chaperone GroEL	uni	sce_4006	42.19	FIG01086775: hypothetical protein
SCE1572_10133	Sigma-70 region 2:Sigma-70 region 4	uni	sce_2800	39.9	RNA polymerase sigma factor RpoE
SCE1572_10134	DNA polymerase, beta-like region	-		0	
SCE1572_10135	hypothetical protein	uni	sce_3936	53.06	FIG01089186: hypothetical protein
SCE1572_10136	hypothetical protein	-		0	
SCE1572_10137	hypothetical protein	uni	sce_5854	27.44	FIG01085614: hypothetical protein
SCE1572_10138	hypothetical protein	-		0	
SCE1572_10139	hypothetical protein	-		0	
SCE1572_10140	Cobyrinic acid a,c-diamide synthase	-		0	
SCE1572_10141	Glycerol-3-phosphate dehydrogenase [NAD(P)] (EC 1.1.1.94)	bi	sce_8944	93.15	Glycerol-3-phosphate dehydrogenase [NAD(P)] (EC 1.1.1.94)
SCE1572_10142	Glycerol-3-phosphate acyltransferase (EC 2.3.1.15)	bi	sce_8945	91	Glycerol-3-phosphate acyltransferase (EC 2.3.1.15)
SCE1572_10143	Hydroxyacylglutathione hydrolase (EC 3.1.2.6)	bi	sce_8946	88.84	Hydroxyacylglutathione hydrolase (EC 3.1.2.6)
SCE1572_10144	best DB hits: PFAM: PF01351; Ribonuclease HII; E=0.11	bi	sce_8947	85.59	best DB hits: PFAM: PF01351; Ribonuclease HII; E=0.11
SCE1572_10145	Peptide methionine sulfoxide reductase MsrB (EC 1.8.4.12) / Peptide methionine sulfoxide reductase MsrA (EC 1.8.4.11)	bi	sce_8948	86.55	Peptide methionine sulfoxide reductase MsrB (EC 1.8.4.12) / Peptide methionine sulfoxide reductase MsrA (EC 1.8.4.11)
SCE1572_10146	Dihydrolipoamide dehydrogenase of pyruvate dehydrogenase complex (EC 1.8.1.4)	bi	sce_8949	92.52	Dihydrolipoamide dehydrogenase of pyruvate dehydrogenase complex (EC 1.8.1.4)
SCE1572_10147	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha subunit (EC 1.2.4.4)	bi	sce_8950	92.8	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha subunit (EC 1.2.4.4)
SCE1572_10148	FIG01085819: hypothetical protein	bi	sce_8951	95.6	FIG01085819: hypothetical protein
SCE1572_10149	hypothetical protein	bi	sce_8952	89.22	hypothetical protein
SCE1572_10150	FOG: HEAT repeat	bi	sce_8953	87.61	FOG: HEAT repeat
SCE1572_10151	hypothetical protein	bi	sce_8954	73.88	PE_PGRS family protein
SCE1572_10152	4Fe-4S ferredoxin, iron-sulfur binding	bi	sce_8955	93.07	4Fe-4S ferredoxin, iron-sulfur binding
SCE1572_10153	FIG01087345: hypothetical protein	bi	sce_8956	82.28	FIG01087345: hypothetical protein
SCE1572_10154	FIG01088198: hypothetical protein	bi	sce_8957	87.67	FIG01088198: hypothetical protein
SCE1572_10155	serine/threonine protein kinase	bi	sce_8958	89.1	serine/threonine protein kinase
SCE1572_10156	hypothetical protein	bi	sce_8959	74.19	hypothetical protein
SCE1572_10157	Urocanate hydratase (EC 4.2.1.49)	bi	sce_8960	96.34	Urocanate hydratase (EC 4.2.1.49)
SCE1572_10158	Endonuclease IV (EC 3.1.21.2)	-		0	
SCE1572_10159	hypothetical protein	bi	sce_8961	63.16	hypothetical protein
SCE1572_10160	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_8962	92.45	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_10161	Dihydroflavonol-4-reductase (EC 1.1.1.219)	bi	sce_8963	91.57	Dihydroflavonol-4-reductase (EC 1.1.1.219)
SCE1572_10162	multi-sensor signal transduction histidine kinase	uni	sce_1532	46.58	FIG01089498: hypothetical protein
SCE1572_10163	Circadian clock protein KaiC	-		0	
SCE1572_10164	Response regulator receiver:CheW-like protein:ATP-binding region, ATPase-like:Hpt	uni	sce_1925	40.87	response regulator receiver domain protein (CheY-like)
SCE1572_10165	CBS domain protein	bi	sce_8964	92.51	CBS domain protein
SCE1572_10166	hypothetical protein	-		0	
SCE1572_10167	FIG01086833: hypothetical protein	bi	sce_8966	89.4	FIG01086833: hypothetical protein

SCE1572_10168	hypothetical protein	bi	sce_8967	90.68	FIG01087342: hypothetical protein
SCE1572_10169	FIG01084921: hypothetical protein	bi	sce_8968	86.23	FIG01084921: hypothetical protein
SCE1572_10170	Serine-threonine protein kinase	bi	sce_8969	85.71	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_10171	hypothetical protein	uni	sce_8969	58.03	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)
SCE1572_10172	Methyltransferase type 11	bi	sce_8970	94.33	Methyltransferase type 11
SCE1572_10173	hypothetical protein	bi	sce_8972	29.93	hypothetical protein
SCE1572_10174	hypothetical protein	-		0	
SCE1572_10175	hypothetical protein	bi	sce_8974	94.44	hypothetical protein
SCE1572_10176	NADH-ubiquinone oxidoreductase chain K (EC 1.6.5.3)	bi	sce_8975	92.08	NADH-ubiquinone oxidoreductase chain K (EC 1.6.5.3)
SCE1572_10177	NAD(P)H-quinone oxidoreductase chain J (EC 1.6.5.2)	bi	sce_8976	95.32	NAD(P)H-quinone oxidoreductase chain J (EC 1.6.5.2)
SCE1572_10178	NAD(P)H-quinone oxidoreductase chain I (EC 1.6.5.2)	bi	sce_8977	91.74	NAD(P)H-quinone oxidoreductase chain I (EC 1.6.5.2)
SCE1572_10179	Dihydrodipicolinate synthase (EC 4.2.1.52)	bi	sce_8978	93.36	Dihydrodipicolinate synthase (EC 4.2.1.52)
SCE1572_10180	Dihydrodipicolinate reductase (EC 1.3.1.26)	bi	sce_8979	93.54	Dihydrodipicolinate reductase (EC 1.3.1.26)
SCE1572_10181	possible OmpA family member	bi	sce_8980	58.29	large tegument protein
SCE1572_10182	Glycyl-tRNA synthetase beta chain (EC 6.1.1.14)	bi	sce_8981	93.71	Glycyl-tRNA synthetase beta chain (EC 6.1.1.14)
SCE1572_10183	Enoyl-[acyl-carrier-protein] reductase [NADPH] (EC 1.3.1.10)	bi	sce_9845	81.71	Enoyl-[acyl-carrier-protein] reductase [NADPH] (EC 1.3.1.10)
SCE1572_10184	Transcriptional regulator, TetR family	bi	sce_9844	87.63	Transcriptional regulator, TetR family
SCE1572_10185	hypothetical protein	-		0	
SCE1572_10186	Peptidase M48, Ste24p precursor	bi	sce_8992	93.36	Peptidase M48, Ste24p precursor
SCE1572_10187	FIG01087569: hypothetical protein	bi	sce_8993	89.4	FIG01087569: hypothetical protein
SCE1572_10188	hypothetical protein	bi	sce_8994	91.94	hypothetical protein
SCE1572_10189	FIG01085362: hypothetical protein	bi	sce_8995	86.65	FIG01085362: hypothetical protein
SCE1572_10190	FIG01089091: hypothetical protein	bi	sce_8996	95.37	FIG01089091: hypothetical protein
SCE1572_10191	hypothetical protein	bi	sce_8997	60.69	hypothetical protein
SCE1572_10192	FIG01088552: hypothetical protein	bi	sce_8998	78.26	FIG01088552: hypothetical protein
SCE1572_10193	Putative zinc metalloprotease MJ0392 (EC 3.4.24.-)	bi	sce_8999	86.29	Putative zinc metalloprotease MJ0392 (EC 3.4.24.-)
SCE1572_10194	hypothetical protein	bi	sce_9000	90.43	hypothetical protein
SCE1572_10195	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)	bi	sce_9001	74.6	3-oxoacyl-[acyl-carrier-protein] synthase, KASIII (EC 2.3.1.41)
SCE1572_10196	hypothetical protein	-		0	
SCE1572_10197	hypothetical protein	-		0	
SCE1572_10198	Flagelliform silk protein	bi	sce_9003	62.93	FIG01086917: hypothetical protein
SCE1572_10199	Glucoamylase (EC 3.2.1.3)	bi	sce_9004	91.3	Glucoamylase (EC 3.2.1.3)
SCE1572_10200	Dna binding response regulator PrrA (RegA)	bi	sce_9005	89.56	Dna binding response regulator PrrA (RegA)
SCE1572_10201	Sensor histidine kinase PrrB (RegB) (EC 2.7.3.-)	bi	sce_9006	90.51	Sensor histidine kinase PrrB (RegB) (EC 2.7.3.-)
SCE1572_10202	Rhs family protein	uni	sce_3937	36.81	FIG01085109: hypothetical protein
SCE1572_10203	FIG01087249: hypothetical protein	uni	sce_2338	92.86	Transposase
SCE1572_10204	hypothetical protein	-		0	
SCE1572_10205	Rhs family protein	-		0	
SCE1572_10206	YD repeat protein	uni	sce_3939	36.97	FIG01085109: hypothetical protein
SCE1572_10207	POSSIBLE BENZOQUINONE METHYLTRANSFERASE (METHYLASE)	uni	sce_3222	45.31	Methyltransferase type 12
SCE1572_10208	NADH:flavin oxidoreductase/NADH oxidase	bi	sce_9676	92.51	NADH:flavin oxidoreductase/NADH oxidase
SCE1572_10209	hypothetical protein	-		0	
SCE1572_10210	MerR family transcriptional regulatory protein	bi	sce_9675	89.12	MerR family transcriptional regulatory protein
SCE1572_10211	RsbR, positive regulator of sigma-B	uni	sce_9946	50.72	RsbR, positive regulator of sigma-B
SCE1572_10212	Inner membrane protein YihY, formerly thought to be RNase BN	bi	sce_9674	83.38	Inner membrane protein YihY, formerly thought to be RNase BN
SCE1572_10213	hypothetical protein	bi	sce_9673	61.54	FIG01088899: hypothetical protein
SCE1572_10214	Mll2607 protein	bi	sce_9672	81.65	Mll2607 protein
SCE1572_10215	hypothetical protein	-		0	
SCE1572_10216	putative ABC transporter ATP-binding protein	bi	sce_9670	83.33	ATP binding protein
SCE1572_10217	2-dehydropantoate 2-reductase (EC 1.1.1.169)	bi	sce_9669	84.78	2-dehydropantoate 2-reductase (EC 1.1.1.169)
SCE1572_10218	FIG01087423: hypothetical protein	bi	sce_9668	87.54	FIG01087423: hypothetical protein
SCE1572_10219	hypothetical protein	bi	sce_9667	86.51	FIG01087423: hypothetical protein
SCE1572_10220	Probable outer membrane protein	bi	sce_9666	86.52	Probable outer membrane protein
SCE1572_10221	Blue copper oxidase CueO precursor	bi	sce_2358	86.79	Blue copper oxidase CueO precursor
SCE1572_10222	Methionine ABC transporter ATP-binding protein	bi	sce_9656	97.17	Methionine ABC transporter ATP-binding protein
SCE1572_10223	ABC transporter associated permease	bi	sce_9655	91.36	protein of unknown function DUF214
SCE1572_10224	hypothetical protein	bi	sce_7438	22.13	FIG01088128: hypothetical protein
SCE1572_10225	hypothetical protein	-		0	
SCE1572_10226	transposase	-		0	
SCE1572_10227	hypothetical protein	-		0	
SCE1572_10228	hypothetical protein	uni	sce_10160	36.46	Transposase
SCE1572_10229	hypothetical protein	-		0	
SCE1572_10230	transposase IS66 family	uni	sce_7404	37.85	Mobile element protein
SCE1572_10231	Mobile element protein	bi	sce_4534	43.74	Mobile element protein
SCE1572_10232	probable transposase	-		0	
SCE1572_10233	hypothetical protein	-		0	
SCE1572_10234	hypothetical protein	-		0	
SCE1572_10235	Mobile element protein	bi	sce_7404	81.22	Mobile element protein
SCE1572_10236	hypothetical protein	-		0	
SCE1572_10237	putative dipeptidyl-peptidase III	uni	sce_4371	39.74	Mlr5283 protein
SCE1572_10238	hypothetical protein	-		0	
SCE1572_10239	hypothetical protein	bi	sce_6868	88	hypothetical protein
SCE1572_10240	hypothetical protein	-		0	
SCE1572_10241	hypothetical protein	uni	sce_7695	43.75	predicted protein
SCE1572_10242	Serine/threonine protein kinase PpkA	bi	sce_1432	46.59	Serine/threonine protein kinase PpkA
SCE1572_10243	hypothetical protein	bi	sce_8673	35.14	FIG01086383: hypothetical protein
SCE1572_10244	hypothetical protein	-		0	
SCE1572_10245	hypothetical protein	bi	sce_6866	83.89	hypothetical protein
SCE1572_10246	hypothetical protein	-		0	
SCE1572_10247	hypothetical protein	-		0	
SCE1572_10248	Transcription-repair coupling factor	bi	sce_7083	68.32	hypothetical protein
SCE1572_10249	hypothetical protein	-		0	
SCE1572_10250	Cysteine desulfurase (EC 2.8.1.7), SufS subfamily	bi	sce_5192	54.57	Cysteine desulfurase (EC 2.8.1.7), SufS subfamily
SCE1572_10251	hypothetical protein	-		0	
SCE1572_10252	hypothetical protein	-		0	
SCE1572_10253	hypothetical protein	-		0	
SCE1572_10254	hypothetical protein	-		0	
SCE1572_10255	phosphodiesterase/alkaline phosphatase D(EC:3.1.3.1)	uni	sce_1314	24.75	Phosphodiesterase/alkaline phosphatase D
SCE1572_10256	Na? antiporter NhaP	bi	sce_1659	96.88	Na? antiporter NhaP
SCE1572_10257	putative RecF protein	bi	sce_6864	94.75	RecF/RecN/SMC N terminal domain, putative
SCE1572_10258	hypothetical protein	-		0	
SCE1572_10259	acetyltransferase	uni	sce_9277	41.53	GCN5-related N-acetyltransferase
SCE1572_10260	FIG01088058: hypothetical protein	bi	sce_9652	72.94	FIG01088058: hypothetical protein
SCE1572_10261	Radical SAM domain protein	bi	sce_9651	95.99	Radical SAM domain protein
SCE1572_10262	Cysteine desulfurase (EC 2.8.1.7)	bi	sce_9650	92.61	Cysteine desulfurase (EC 2.8.1.7)
SCE1572_10263	hypothetical protein	-		0	
SCE1572_10264	SMC domain protein	uni	sce_924	45.9	Gll1489 protein
SCE1572_10265	hypothetical protein	bi	sce_9648	88.6	hypothetical protein
SCE1572_10266	FIG01085066: hypothetical protein	bi	sce_9647	82.59	FIG01085066: hypothetical protein
SCE1572_10267	5,10-methylenetetrahydrofolate reductase (EC 1.5.1.20)	bi	sce_9646	95.97	5,10-methylenetetrahydrofolate reductase (EC 1.5.1.20)
SCE1572_10268	FIG01087936: hypothetical protein	bi	sce_9645	93.13	FIG01087936: hypothetical protein
SCE1572_10269	Methylglutaconyl-CoA hydratase (EC 4.2.1.18)	bi	sce_9644	96.09	Methylglutaconyl-CoA hydratase (EC 4.2.1.18)
SCE1572_10270	hypothetical protein	uni	sce_6252	52.17	FIG01088254: hypothetical protein
SCE1572_10271	Thiamin biosynthesis lipoprotein ApbE	bi	sce_9643	85.68	Thiamin biosynthesis lipoprotein ApbE
SCE1572_10272	Amidohydrolase	bi	sce_9642	94.92	Amidohydrolase
SCE1572_10273	FIG01088011: hypothetical protein	bi	sce_9641	91.22	FIG01088011: hypothetical protein
SCE1572_10274	Uroporphyrinogen III decarboxylase (EC 4.1.1.37)	bi	sce_9639	98.57	Uroporphyrinogen III decarboxylase (EC 4.1.1.37)
SCE1572_10275	Predicted glutamine amidotransferase	bi	sce_9638	93.05	Predicted glutamine amidotransferase
SCE1572_10276	GGDEF family protein	bi	sce_9637	99.67	GGDEF family protein
SCE1572_10277	Acetylornithine aminotransferase (EC 2.6.1.11)	bi	sce_9636	90.71	acetylornithine and succinylornithine aminotransferases(EC:2.6.1.11)
SCE1572_10278	Long-chain-fatty-acid--luciferin-component ligase (EC 6.2.1.19)	bi	sce_9635	88.12	possible acyl protein synthase/acyl-CoA reductase-like protein
SCE1572_10279	putative acyl-CoA reductase	bi	sce_9634	88.68	hypothetical protein
SCE1572_10280	Phosphocarrier protein kinase/phosphorylase, nitrogen regulation associated	bi	sce_9633	88.76	Phosphocarrier protein kinase/phosphorylase, nitrogen regulation associated
SCE1572_10281	Queuosine biosynthesis QueD, PTPS-I	bi	sce_9631	95.2	Queuosine biosynthesis QueD, PTPS-I
SCE1572_10282	FAD dependent oxidoreductase	bi	sce_9630	95.6	sarcosine oxidase, beta subunit family protein
SCE1572_10283	Biotin synthesis protein bioC	bi	sce_9629	93.8	Biotin synthesis protein bioC
SCE1572_10284	hypothetical protein	bi	sce_9628	93.36	hypothetical protein
SCE1572_10285	FIG01088095: hypothetical protein	bi	sce_9627	86.99	FIG01088095: hypothetical protein
SCE1572_10286	Phosphate regulon transcriptional regulatory protein PhoB	bi	sce_9626	98.7	Phosphate regulon transcriptional regulatory protein PhoB
SCE1572_10287	FIG01088413: hypothetical protein	bi	sce_9625	76.75	FIG01088413: hypothetical protein
SCE1572_10288	Magnesium transporter	bi	sce_9624	97.4	Magnesium transporter
SCE1572_10289	Single-stranded DNA-binding protein	bi	sce_9623	87.32	Single-stranded DNA-binding protein
SCE1572_10290	FIG01085931: hypothetical protein	bi	sce_9622	81.9	FIG01085931: hypothetical protein
SCE1572_10291	Transcriptional regulator, MerR family	bi	sce_9621	95.12	Transcriptional regulator, MerR family
SCE1572_10292	Integration host factor alpha subunit	bi	sce_9620	100	Integration host factor alpha subunit
SCE1572_10293	hypothetical protein	-		0	
SCE1572_10294	Glycosyltransferase	bi	sce_9619	93.12	Glycosyltransferase
SCE1572_10295	hypothetical protein	bi	sce_9617	90.46	hypothetical protein
SCE1572_10296	hypothetical protein	bi	sce_9616	94.35	hypothetical protein
SCE1572_10297	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.A.1.4.1)	bi	sce_9615	96.83	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.A.1.4.1)
SCE1572_10298	Branched-chain amino acid transport ATP-binding protein LivG (TC 3.A.1.4.1)	bi	sce_9614	92.16	Branched-chain amino acid transport ATP-binding protein LivG (TC 3.A.1.4.1)
SCE1572_10299	Branched-chain amino acid transport system permease protein LivM (TC 3.A.1.4.1)	bi	sce_9613	87.86	Branched-chain amino acid transport system permease protein LivM (TC 3.A.1.4.1)
SCE1572_10300	Stringent starvation protein B	bi	sce_9612	86.59	Stringent starvation protein B
SCE1572_10301	FIG01089093: hypothetical protein	bi	sce_9611	89.72	FIG01089093: hypothetical protein
SCE1572_10302	protein of unknown function DUF6, transmembrane	bi	sce_9610	86.15	protein of unknown function DUF6, transmembrane
SCE1572_10303	Hemagglutinin/hemolysin-related protein	bi	sce_9609	80.87	Hemagglutinin/hemolysin-related protein
SCE1572_10304	Excinuclease ABC subunit A	bi	sce_9607	92.97	Excinuclease ABC subunit A
SCE1572_10305	Protein serine/threonine phosphatase PrpC, regulation of stationary phase	bi	sce_9606	92.28	Protein serine/threonine phosphatase PrpC, regulation of stationary phase
SCE1572_10306	hypothetical protein, glycine-rich	bi	sce_9605	84.46	hypothetical protein
SCE1572_10307	conserved hypothetical protein	bi	sce_9604	86.2	hypothetical protein
SCE1572_10308	conserved hypothetical outer membrane protein	bi	sce_9603	95.71	outer membrane protein, OmpA/MotB family
SCE1572_10309	Response regulator receiver	bi	sce_9602	91.46	Heavy metal RND efflux outer membrane protein, CzcC family
SCE1572_10310	Methyl-accepting chemotaxis protein	uni	sce_9602	50.31	Heavy metal RND efflux outer membrane protein, CzcC family
SCE1572_10311	hypothetical protein	bi	sce_9601	85.13	hypothetical protein
SCE1572_10312	Prolyl endopeptidase (EC 3.4.21.26)	bi	sce_9600	92.25	Prolyl endopeptidase (EC 3.4.21.26)
SCE1572_10313	hypothetical protein	bi	sce_9007	65.69	hypothetical protein
SCE1572_10314	hypothetical protein	bi	sce_9008	73.79	hypothetical protein
SCE1572_10315	hypothetical protein	bi	sce_9009	83.74	hypothetical protein
SCE1572_10316	hypothetical protein	-		0	
SCE1572_10317	Methylase of polypeptide chain release factors	bi	sce_9010	90.82	Methylase of polypeptide chain release factors
SCE1572_10318	Phosphomannomutase (EC 5.4.2.8)	bi	sce_9011	89.96	Phosphomannomutase (EC 5.4.2.8)
SCE1572_10319	hypothetical protein	bi	sce_9012	79.37	hypothetical protein
SCE1572_10320	Ribosomal RNA small subunit methyltransferase D (EC 2.1.1.-)	bi	sce_9013	92.74	Ribosomal RNA small subunit methyltransferase D (EC 2.1.1.-)
SCE1572_10321	hypothetical protein	bi	sce_9015	91.67	hypothetical protein
SCE1572_10322	endo-1,4-beta-glucanase	uni	sce_4564	67.21	endo alpha-1,4 polygalactosaminidase precusor
SCE1572_10323	tRNA pseudouridine synthase A (EC 4.2.1.70)	bi	sce_9017	89.73	tRNA pseudouridine synthase A (EC 4.2.1.70)
SCE1572_10324	Peptidase S1, chymotrypsin:PDZ/DHR/GLGF domain	uni	sce_8080	39.41	Serine protease precursor MucD/AlgY associated with sigma factor RpoE
SCE1572_10325	alternate gene name: yzbB	bi	sce_9018	90.98	alternate gene name: yzbB
SCE1572_10326	conserved hypothetical protein	bi	sce_9019	78.12	hypothetical protein
SCE1572_10327	hypothetical protein	uni	sce_506	43.02	FIG01086293: hypothetical protein
SCE1572_10328	FAD-linked oxidoreductase family	-		0	
SCE1572_10329	metal dependent phosphohydrolase	bi	sce_9020	93.41	RelA/SpoT protein(EC:2.7.6.5)
SCE1572_10330	hypothetical protein	-		0	
SCE1572_10331	outer membrane protein OmpA	bi	sce_9022	84.9	outer membrane protein OmpA

SCE1572_10332	internalin, putative	bi	sce_9023	90.26 internalin, putative
SCE1572_10333	hypothetical protein	-		0
SCE1572_10334	hypothetical protein	uni	sce_9025	76.7 hypothetical protein
SCE1572_10335	MJ0042 family finger-like domain protein	bi	sce_9025	83.82 hypothetical protein
SCE1572_10336	hypothetical protein	bi	sce_9027	84.63 hypothetical protein
SCE1572_10337	hypothetical protein	-		0
SCE1572_10338	protein of unknown function DUF11	bi	sce_1108	89.24 hypothetical protein
SCE1572_10339	response regulator receiver protein	bi	sce_9029	89.86 response regulator receiver protein
SCE1572_10340	FIG01086268: hypothetical protein	bi	sce_9030	82.36 FIG01086268: hypothetical protein
SCE1572_10341	DSBA oxidoreductase	bi	sce_9031	79.03 thiol:disulfide interchange protein
SCE1572_10342	transcriptional regulator, SARP family	bi	sce_9032	92.2 transcriptional regulator, SARP family
SCE1572_10343	Transcriptional regulator, LysR family	bi	sce_9033	89.51 Transcriptional regulator, LysR family
SCE1572_10344	Exoglucanase 3 precursor (EC 3.2.1.91) (Exocellobiohydrolase 3) (1,4-beta-cellobiohydrolase 3)	bi	sce_9034	65.29 Exoglucanase 3 precursor (EC 3.2.1.91) (Exocellobiohydrolase 3) (1,4-beta-cellobiohydrolase 3)
SCE1572_10345	Phosphoesterase (EC 3.1.-.-)	bi	sce_9035	81.32 metallophosphoesterase
SCE1572_10346	Putative heat shock protein YegD	bi	sce_9037	93.93 Putative heat shock protein YegD
SCE1572_10347	serine/threonine protein kinase	bi	sce_9038	88.54 serine/threonine protein kinase
SCE1572_10348	Catalase (EC 1.11.1.6)	uni	sce_2350	71.21 Catalase (EC 1.11.1.6)
SCE1572_10349	hypothetical protein	-		0
SCE1572_10350	Nickel transporter UreH	uni	sce_6510	39.66 Nickel transporter UreH
SCE1572_10351	Putative metal chaperone, involved in Zn homeostasis, GTPase of COG0523 family	uni	sce_9219	39 Putative metal chaperone, involved in Zn homeostasis, GTPase of COG0523 family
SCE1572_10352	High-affnity carbon uptake protein Hat/HatR	uni	sce_3016	34.37 High-affnity carbon uptake protein Hat/HatR
SCE1572_10353	hypothetical protein	bi	sce_8066	73.68 Zinc ABC transporter, inner membrane permease protein ZnuB
SCE1572_10354	LSU ribosomal protein L33p	bi	sce_9218	89.29 LSU ribosomal protein L33p
SCE1572_10355	Putative metal chaperone, involved in Zn homeostasis, GTPase of COG0523 family	uni	sce_9219	81.23 Putative metal chaperone, involved in Zn homeostasis, GTPase of COG0523 family
SCE1572_10356	hypothetical protein	-		0
SCE1572_10357	putative lipoprotein	-		0
SCE1572_10358	hypothetical protein	uni	sce_6522	30.58 hypothetical protein
SCE1572_10359	hypothetical protein	uni	sce_7908	30.08 hypothetical protein
SCE1572_10360	TonB-dependent receptor	uni	sce_6520	37.65 Outer membrane receptor proteins, mostly Fe transport
SCE1572_10361	putative lipoprotein	-		0
SCE1572_10362	hypothetical protein	-		0
SCE1572_10363	LamG domain protein jellyroll fold domain protein	uni	sce_4576	32.5 Glycine-rich cell wall structural protein 1.8 precursor
SCE1572_10364	hypothetical protein	-		0
SCE1572_10365	hypothetical protein	uni	sce_6758	34.87 FIG01086116: hypothetical protein
SCE1572_10366	hypothetical protein	-		0
SCE1572_10367	Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.(	uni	sce_4494	69.28 Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.6.3.4)
SCE1572_10368	Ferredoxin	bi	sce_9055	81.68 Ferredoxin
SCE1572_10369	Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA	bi	sce_9056	95.15 Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA
SCE1572_10370	Probable Co/Zn/Cd efflux system membrane fusion protein	bi	sce_9057	93.49 Probable Co/Zn/Cd efflux system membrane fusion protein
SCE1572_10371	Heavy metal RND efflux outer membrane protein, CzcC family	bi	sce_9058	92.79 Heavy metal RND efflux outer membrane protein, CzcC family
SCE1572_10372	Protein of unknown function DUF305	bi	sce_9059	87.43 Protein of unknown function DUF305
SCE1572_10373	Multicopper oxidase	bi	sce_9061	95.5 Multicopper oxidase
SCE1572_10374	Hypothetical protein	bi	sce_9062	88.61 Hypothetical protein
SCE1572_10375	Transcriptional regulator, TetR family	bi	sce_9065	91.55 transcriptional regulator, TetR family
SCE1572_10376	sterol desaturase-like protein	bi	sce_9066	95.33 sterol desaturase-like protein
SCE1572_10377	Mll6465 protein	-		0
SCE1572_10378	Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.(	bi	sce_9067	91.02 Lead, cadmium, zinc and mercury transporting ATPase (EC 3.6.3.3) (EC 3.6.3.5); Copper-translocating P-type ATPase (EC 3.6.3.4)
SCE1572_10379	hypothetical protein	-		0
SCE1572_10380	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_9069	97.03 Response regulator of zinc sigma-54-dependent two-component system
SCE1572_10381	Sensor histidine kinase	bi	sce_9070	91.57 Sensor histidine kinase
SCE1572_10382	FIG01087616: hypothetical protein	bi	sce_9071	91.81 FIG01087616: hypothetical protein
SCE1572_10383	Heavy metal RND efflux outer membrane protein, CzcC family	bi	sce_9072	90.76 Heavy metal RND efflux outer membrane protein, CzcC family
SCE1572_10384	hypothetical protein	bi	sce_9073	94.84 hypothetical protein
SCE1572_10385	COG0845: Membrane-fusion protein	bi	sce_9074	92.91 COG0845: Membrane-fusion protein
SCE1572_10386	Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA	bi	sce_9075	96.61 Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA
SCE1572_10387	CBS domain containing protein	uni	sce_2797	64.43 CBS domain containing protein
SCE1572_10388	hypothetical protein	-		0
SCE1572_10389	Type I restriction-modification system, specificity subunit S (EC 3.1.21.3)	-		0
SCE1572_10390	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)	uni	sce_6179	24.27 Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)
SCE1572_10391	Glucose/mannose:H symporter GlcP	bi	sce_9046	90.45 Glucose/mannose:H symporter GlcP
SCE1572_10392	LysE-family efflux protein	bi	sce_2299	32.34 Lysine exporter protein (LYSE/YGGA)
SCE1572_10393	Alpha-L-arabinofuranosidase II precursor (EC 3.2.1.55)	bi	sce_3027	83.48 Alpha-L-arabinofuranosidase II precursor (EC 3.2.1.55)
SCE1572_10394	hypothetical protein	bi	sce_9047	73.81 hypothetical protein
SCE1572_10395	hypothetical protein	-		0
SCE1572_10396	Erythromycin esterase	uni	sce_10090	42.27 Hydrolases of the alpha/beta superfamily
SCE1572_10397	Fumarylacetoacetate hydrolase family protein	bi	sce_9216	91.32 Fumarylacetoacetate hydrolase family protein
SCE1572_10398	Ketoglutarate semialdehyde dehydrogenase (EC 1.2.1.26)	bi	sce_9215	92.02 Ketoglutarate semialdehyde dehydrogenase (EC 1.2.1.26)
SCE1572_10399	Dihydroxy-acid dehydratase (EC 4.2.1.9)	bi	sce_9214	95.65 Dihydroxy-acid dehydratase (EC 4.2.1.9)
SCE1572_10400	Gluconolactonase (EC 3.1.1.17)	bi	sce_9209	93.14 Gluconolactonase (EC 3.1.1.17)
SCE1572_10401	hypothetical protein	uni	sce_5580	33.68 Uncharacterized protein ImpA
SCE1572_10402	conserved hypothetical protein, secreted	uni	sce_2173	26.28 FIG01089269: hypothetical protein
SCE1572_10403	hypothetical protein	-		0
SCE1572_10404	Na-Ca exchanger/integrin-beta4	uni	sce_3180	43.33 FIG01089285: hypothetical protein
SCE1572_10405	collagen triple helix repeat protein	uni	sce_2684	55.97 Phage tail fiber protein
SCE1572_10406	hypothetical protein	-		0
SCE1572_10407	hypothetical protein	-		0
SCE1572_10408	hypothetical protein	-		0
SCE1572_10409	hypothetical protein	-		0
SCE1572_10410	hypothetical protein	uni	sce_2694	47.44 RNA-binding region RNP-1 (RNA recognition motif)
SCE1572_10411	hypothetical protein	-		0
SCE1572_10412	hypothetical protein	-		0
SCE1572_10413	hypothetical protein	-		0
SCE1572_10414	hypothetical protein	uni	sce_304	26.23 VgrG protein
SCE1572_10415	hypothetical protein	-		0
SCE1572_10416	hypothetical protein	uni	sce_6493	33.49 Translation initiation factor 2
SCE1572_10417	hypothetical protein	-		0
SCE1572_10418	hypothetical protein	-		0
SCE1572_10419	hypothetical protein	-		0
SCE1572_10420	Phage minor tail protein	uni	sce_2319	21.87 Phage tail sheath protein FI
SCE1572_10421	hypothetical protein	-		0
SCE1572_10422	hypothetical protein	uni	sce_921	21.41 omega-3 polyunsaturated fatty acid synthase subunit, PfaA
SCE1572_10423	hypothetical protein	-		0
SCE1572_10424	hypothetical protein	-		0
SCE1572_10425	hypothetical protein	-		0
SCE1572_10426	hypothetical protein	uni	sce_10308	45.83 Ferredoxin, 2Fe-2S
SCE1572_10427	hypothetical protein	-		0
SCE1572_10428	hypothetical protein	-		0
SCE1572_10429	hypothetical protein	-		0
SCE1572_10430	hypothetical protein	-		0
SCE1572_10431	hypothetical protein	bi	sce_5028	28.17 conserved hypothetical protein, putative DNA helicase
SCE1572_10432	hypothetical protein	-		0
SCE1572_10433	hypothetical protein	-		0
SCE1572_10434	WD-40 repeat protein	uni	sce_9769	28.45 serine/threonine protein kinase
SCE1572_10435	Murein endopeptidase	bi	sce_9076	84.07 Murein endopeptidase
SCE1572_10436	Exodeoxyribonuclease III (EC 3.1.11.2)	bi	sce_9077	92.94 Exodeoxyribonuclease III (EC 3.1.11.2)
SCE1572_10437	contains Interpro entry IPR000379 / expressed protein	bi	sce_9078	87.21 contains Interpro entry IPR000379 / expressed protein
SCE1572_10438	hypothetical protein	bi	sce_9079	62.86 hypothetical protein
SCE1572_10439	Two-component response regulator	bi	sce_9080	100 Two-component response regulator
SCE1572_10440	hypothetical protein	-		0
SCE1572_10441	Two-component response regulator	bi	sce_9082	86.23 Two-component response regulator
SCE1572_10442	Maltose phosphorylase (EC 2.4.1.8) / Trehalose phosphorylase (EC 2.4.1.64)	bi	sce_9083	82.9 Maltose phosphorylase (EC 2.4.1.8) / Trehalose phosphorylase (EC 2.4.1.64)
SCE1572_10443	FIG01088575: hypothetical protein	bi	sce_9084	71.21 FIG01088575: hypothetical protein
SCE1572_10444	ATP-dependent protease La (EC 3.4.21.53) Type II	bi	sce_9085	96.06 ATP-dependent protease La (EC 3.4.21.53) Type II
SCE1572_10445	hypothetical protein	-		0
SCE1572_10446	hypothetical protein	bi	sce_9086	74.48 hypothetical protein
SCE1572_10447	PAS/PAC sensor signal transduction histidine kinase	bi	sce_9087	93.46 PAS/PAC sensor signal transduction histidine kinase
SCE1572_10448	FIG01086305: hypothetical protein	bi	sce_9088	93.06 FIG01086305: hypothetical protein
SCE1572_10449	COG0028: Thiamine pyrophosphate-requiring enzymes	bi	sce_9089	95.21 COG0028: Thiamine pyrophosphate-requiring enzymes
SCE1572_10450	hypothetical protein	-		0
SCE1572_10451	hypothetical protein	bi	sce_9093	90 hypothetical protein
SCE1572_10452	Urea ABC transporter, permease protein UrtC	bi	sce_9094	68.21 hypothetical protein
SCE1572_10453	Cysteine desulfurase (EC 2.8.1.7)	bi	sce_9095	87.44 Cysteine desulfurase (EC 2.8.1.7)
SCE1572_10454	hypothetical protein	-		0
SCE1572_10455	Putative membrane protein precursor	bi	sce_9096	77.71 Putative membrane protein precursor
SCE1572_10456	hypothetical protein	bi	sce_9097	82.35 FIG01089086: hypothetical protein
SCE1572_10457	hypothetical protein	-		0
SCE1572_10458	hypothetical protein	-		0
SCE1572_10459	Universal stress protein family	bi	sce_9098	89.93 Universal stress protein family
SCE1572_10460	hypothetical protein	bi	sce_9099	88.53 hypothetical protein
SCE1572_10461	periplasmic sensor signal transduction histidine kinase	bi	sce_9100	92.32 integral membrane sensor signal transduction histidine kinase
SCE1572_10462	Seryl-tRNA synthetase (EC 6.1.1.11)	bi	sce_9101	94 Seryl-tRNA synthetase (EC 6.1.1.11)
SCE1572_10463	Aconitate hydratase (EC 4.2.1.3)	bi	sce_9102	95.42 Aconitate hydratase (EC 4.2.1.3)
SCE1572_10464	Gll2498 protein	bi	sce_9103	77.32 Gll2498 protein
SCE1572_10465	Regulator of cell morphogenesis and NO signaling	bi	sce_9104	76.32 hypothetical protein
SCE1572_10466	sulfatase	bi	sce_9105	89.45 hypothetical protein
SCE1572_10467	hypothetical protein	-		0
SCE1572_10468	hypothetical protein	-		0
SCE1572_10469	FIG01088596: hypothetical protein	bi	sce_9115	89.04 FIG01088596: hypothetical protein
SCE1572_10470	FIG01085488: hypothetical protein	-		0
SCE1572_10471	FIG01085488: hypothetical protein	bi	sce_9116	79.15 FIG01085488: hypothetical protein
SCE1572_10472	3-isopropylmalate dehydrogenase (EC 1.1.1.85)	bi	sce_9117	96.14 3-isopropylmalate dehydrogenase (EC 1.1.1.85)
SCE1572_10473	Alanine dehydrogenase (EC 1.4.1.1)	bi	sce_9118	94.32 Alanine dehydrogenase (EC 1.4.1.1)
SCE1572_10474	FIG01087650: hypothetical protein	bi	sce_9119	84.87 FIG01087650: hypothetical protein
SCE1572_10475	response regulator/GGDEF/GAF domain protein	bi	sce_9120	89.49 response regulator/GGDEF/GAF domain protein
SCE1572_10476	Diaminopimelate epimerase (EC 5.1.1.7)	bi	sce_9121	93.28 Diaminopimelate epimerase (EC 5.1.1.7)
SCE1572_10477	UPF0235 protein CT1832	bi	sce_9122	91.96 UPF0235 protein CT1832
SCE1572_10478	FIG01089150: hypothetical protein	bi	sce_9123	71.43 FIG01089150: hypothetical protein
SCE1572_10479	FIG01088827: hypothetical protein	bi	sce_9124	79.49 FIG01088827: hypothetical protein
SCE1572_10480	FIG01084956: hypothetical protein	bi	sce_9125	91.18 FIG01084956: hypothetical protein
SCE1572_10481	8-amino-7-oxononanoate synthase (EC 2.3.1.47)	bi	sce_9126	83.25 8-amino-7-oxononanoate synthase (EC 2.3.1.47)
SCE1572_10482	Dethiobiotin synthetase (EC 6.3.3.3)	bi	sce_9127	81.07 Dethiobiotin synthetase (EC 6.3.3.3)
SCE1572_10483	ABC transporter involved in cytochrome c biogenesis, ATPase component CcmA	bi	sce_9128	88.53 ABC transporter involved in cytochrome c biogenesis, ATPase component CcmA
SCE1572_10484	serine/threonine protein kinase	bi	sce_9129	68.94 serine/threonine protein kinase
SCE1572_10485	DNA polymerase III beta subunit (EC 2.7.7.7)	bi	sce_9130	97.87 DNA polymerase III beta subunit (EC 2.7.7.7)
SCE1572_10486	DNA recombination and repair protein RecF	bi	sce_9131	90.58 DNA recombination and repair protein RecF
SCE1572_10487	DNA gyrase subunit B (EC 5.99.1.3)	bi	sce_9133	96.36 DNA gyrase subunit B (EC 5.99.1.3)
SCE1572_10488	ClpB protein	bi	sce_9135	97.12 ClpB protein
SCE1572_10489	Molybdopterin binding motif, CinA N-terminal domain / C-terminal domain of CinA type S	bi	sce_9136	94.92 Molybdopterin binding motif, CinA N-terminal domain / C-terminal domain of CinA type S
SCE1572_10490	hypothetical protein	bi	sce_9137	84.27 hypothetical protein
SCE1572_10491	putative Fe-S oxidoreductase	bi	sce_9139	84.32 hypothetical protein
SCE1572_10492	putative cytochrome c biogenesis protein	bi	sce_9140	87.83 putative cytochrome c biogenesis protein
SCE1572_10493	Cytochrome c heme lyase subunit CcmF	bi	sce_9141	92.9 Cytochrome c heme lyase subunit CcmF
SCE1572_10494	2-isopropylmalate synthase (EC 2.3.3.13)	bi	sce_9142	94.76 2-isopropylmalate synthase (EC 2.3.3.13)
SCE1572_10495	hypothetical protein	bi	sce_9143	93.13 hypothetical protein

SCE1572_10496	hypothetical protein	bi	sce_9144	89.23	hypothetical protein
SCE1572_10497	FIG01088467: hypothetical protein	bi	sce_9145	92.03	FIG01088467: hypothetical protein
SCE1572_10498	FIG01086588: hypothetical protein	bi	sce_9146	85.25	FIG01086588: hypothetical protein
SCE1572_10499	4-hydroxybenzoyl-CoA thioesterase family active site	bi	sce_9147	92.36	4-hydroxybenzoyl-CoA thioesterase family active site
SCE1572_10500	Hypoxanthine-guanine phosphoribosyltransferase (EC 2.4.2.8)	bi	sce_9148	96.53	Hypoxanthine-guanine phosphoribosyltransferase (EC 2.4.2.8)
SCE1572_10501	hypothetical protein	bi	sce_9149	90.57	hypothetical protein
SCE1572_10502	Holliday junction DNA helicase RuvB	bi	sce_9150	95.86	Holliday junction DNA helicase RuvB
SCE1572_10503	hypothetical protein	bi	sce_9151	87.56	Redoxin domain protein
SCE1572_10504	Hypothetical protein YggS, proline synthase co-transcribed bacterial homolog PROSC	bi	sce_9152	90.09	Hypothetical protein YggS, proline synthase co-transcribed bacterial homolog PROSC
SCE1572_10505	Glycyl-tRNA synthetase beta chain (EC 6.1.1.14)	uni	sce_5518	37.93	NAD(P)HX epimerase / NAD(P)HX dehydratase
SCE1572_10506	FIG01086900: hypothetical protein	bi	sce_1495	77.78	Collagen triple helix repeat
SCE1572_10507	Conserved Hypothetical protein; putative cAMP-binding protein	bi	sce_9156	92.22	Conserved Hypothetical protein; putative cAMP-binding protein
SCE1572_10508	GCN5-related N-acetyltransferase	bi	sce_9157	99.31	COG0454: Histone acetyltransferase HPA2 and related acetyltransferases
SCE1572_10509	Ribulose-phosphate 3-epimerase (EC 5.1.3.1)	bi	sce_9159	85.45	Ribulose-phosphate 3-epimerase (EC 5.1.3.1)
SCE1572_10510	FIG01088789: hypothetical protein	bi	sce_9160	84.52	FIG01088789: hypothetical protein
SCE1572_10511	hypothetical protein	-		0	
SCE1572_10512	hypothetical protein	-		0	
SCE1572_10513	hypothetical protein	-		0	
SCE1572_10514	FIG01089091: hypothetical protein	uni	sce_8996	91.28	FIG01089091: hypothetical protein
SCE1572_10515	hypothetical protein	-		0	
SCE1572_10516	EBNA-1	uni	sce_2045	31.34	Mlr6568 protein
SCE1572_10517	hypothetical protein	-		0	
SCE1572_10518	hypothetical protein	bi	sce_2335	25.32	FIG01086312: hypothetical protein
SCE1572_10519	hypothetical protein	uni	sce_7454	28.97	FIG01089015: hypothetical protein
SCE1572_10520	hypothetical protein	bi	sce_2333	34.2	FIG00500935: hypothetical protein
SCE1572_10521	hypothetical protein	bi	sce_2332	30.86	hypothetical protein
SCE1572_10522	hypothetical protein	bi	sce_2331	42.2	hypothetical protein
SCE1572_10523	hypothetical protein	uni	sce_9938	37.38	EBNA-1
SCE1572_10524	hypothetical protein	uni	sce_2329	39.68	VgrG protein
SCE1572_10525	hypothetical protein	uni	sce_2328	29.41	hypothetical protein
SCE1572_10526	hypothetical protein	bi	sce_2327	37.89	hypothetical protein
SCE1572_10527	conserved hypothetical protein; putative signal peptide	bi	sce_2326	32.43	conserved hypothetical protein; putative signal peptide
SCE1572_10528	hypothetical protein	-		0	
SCE1572_10529	ATPase, AAA family	uni	sce_2324	36.54	ATPase, AAA family
SCE1572_10530	hypothetical protein	-		0	
SCE1572_10531	ZK84.1	uni	sce_6493	34.04	Translation initiation factor 2
SCE1572_10532	hypothetical protein	-		0	
SCE1572_10533	hypothetical protein	bi	sce_2321	32.3	hypothetical protein
SCE1572_10534	FIG01131549: hypothetical protein	bi	sce_2320	58.68	FIG01131549: hypothetical protein
SCE1572_10535	Phage tail sheath protein FI	bi	sce_2319	55.92	Phage tail sheath protein FI
SCE1572_10536	hypothetical protein	-		0	
SCE1572_10537	hypothetical protein	-		0	
SCE1572_10538	hypothetical protein	-		0	
SCE1572_10539	Two Component, Sigma-54 Specific, Transcriptional Regulator, Fis family	uni	sce_7436	46.78	Nif-specific regulatory protein
SCE1572_10540	hypothetical protein	-		0	
SCE1572_10541	stringent starvation protein B	-		0	
SCE1572_10542	hypothetical protein	-		0	
SCE1572_10543	hypothetical protein	-		0	
SCE1572_10544	hypothetical protein	-		0	
SCE1572_10545	DNA repair protein RadC	uni	sce_7263	40.78	DNA repair protein RadC
SCE1572_10546	hypothetical protein	-		0	
SCE1572_10547	hypothetical protein	-		0	
SCE1572_10548	MoxR-like ATPase	uni	sce_4297	31.77	Putative 2-component regulator
SCE1572_10549	VWA containing CoxE-like	-		0	
SCE1572_10550	conserved hypothetical protein	-		0	
SCE1572_10551	hypothetical protein	uni	sce_163	48.78	FIG01087636: hypothetical protein
SCE1572_10552	hypothetical protein	-		0	
SCE1572_10553	hypothetical protein	-		0	
SCE1572_10554	RecA protein	uni	sce_2947	75.61	RecA protein
SCE1572_10555	SMC domain protein	uni	sce_6864	48.98	RecF/RecN/SMC N terminal domain, putative
SCE1572_10556	hypothetical protein	-		0	
SCE1572_10557	MG(2) CHELATASE FAMILY PROTEIN / ComM-related protein	uni	sce_2946	55.66	MG(2) CHELATASE FAMILY PROTEIN / ComM-related protein
SCE1572_10558	hypothetical protein	-		0	
SCE1572_10559	hypothetical protein	-		0	
SCE1572_10560	hypothetical protein	-		0	
SCE1572_10561	hypothetical protein	-		0	
SCE1572_10562	hypothetical protein	-		0	
SCE1572_10563	HYPOTHETICAL PROTEIN	-		0	
SCE1572_10564	hypothetical protein	bi	sce_9181	40.24	FIG00970516: hypothetical protein
SCE1572_10565	conserved hypothetical protein	bi	sce_9180	29.6	FIG01089090: hypothetical protein
SCE1572_10566	Cardiolipin synthetase (EC 2.7.8.-)	bi	sce_9179	40.1	hypothetical membrane associated protein
SCE1572_10567	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_9178	39.83	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_10568	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)	uni	sce_6179	30.94	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)
SCE1572_10569	Type I restriction-modification system, specificity subunit S (EC 3.1.21.3)	-		0	
SCE1572_10570	Putative DNA-binding protein in cluster with Type I restriction-modification system	-		0	
SCE1572_10571	Type I restriction-modification system, restriction subunit R (EC 3.1.21.3)	-		0	
SCE1572_10572	Putative predicted metal-dependent hydrolase	-		0	
SCE1572_10573	hypothetical protein	-		0	
SCE1572_10574	hypothetical protein	-		0	
SCE1572_10575	hypothetical protein	-		0	
SCE1572_10576	DNA polymerase I (EC 2.7.7.7)	uni	sce_9687	30.1	DNA polymerase I (EC 2.7.7.7)
SCE1572_10577	hypothetical protein	-		0	
SCE1572_10578	hypothetical protein	-		0	
SCE1572_10579	hypothetical protein	-		0	
SCE1572_10580	hypothetical protein	-		0	
SCE1572_10581	hypothetical protein	-		0	
SCE1572_10582	hypothetical protein	-		0	
SCE1572_10583	hypothetical protein	-		0	
SCE1572_10584	phage integrase family protein	uni	sce_7521	26.36	FIG01087954: hypothetical protein
SCE1572_10585	hypothetical protein	bi	sce_3805	98.84	hypothetical protein
SCE1572_10586	FIG01089646: hypothetical protein	bi	sce_3806	97.5	FIG01089646: hypothetical protein
SCE1572_10587	hypothetical protein	uni	sce_6225	61.25	hypothetical protein
SCE1572_10588	hypothetical protein	uni	sce_6227	43.61	hypothetical protein
SCE1572_10589	hypothetical protein	-		0	
SCE1572_10590	hypothetical protein	-		0	
SCE1572_10591	ATPase associated with various cellular activities, AAA_5	uni	sce_3642	28.57	5-methylcytosine-specific restriction related enzyme
SCE1572_10592	helicase, DEAD/DEAH family	uni	sce_9165	91	helicase, DEAD/DEAH family
SCE1572_10593	hypothetical protein	-		0	
SCE1572_10594	Cellulose-binding domain protein	bi	sce_7746	78.57	Cellulose-binding domain protein
SCE1572_10595	FIG01087231: hypothetical protein	bi	sce_7745	85.64	FIG01087231: hypothetical protein
SCE1572_10596	FIG01087070: hypothetical protein	bi	sce_7744	85.21	FIG01087070: hypothetical protein
SCE1572_10597	hypothetical protein	bi	sce_7743	67.31	hypothetical protein
SCE1572_10598	hypothetical protein	-		0	
SCE1572_10599	drug resistance transporter, EmrB/QacA subfamily	bi	sce_1251	35	drug resistance transporter, EmrB/QacA family
SCE1572_10600	Coenzyme PQQ synthesis protein E	bi	sce_7488	35.16	Coenzyme PQQ synthesis protein E (Pyrroloquinoline quinone biosynthesis protein E)
SCE1572_10601	Coenzyme PQQ synthesis protein C	-		0	
SCE1572_10602	Coenzyme PQQ synthesis protein B	-		0	
SCE1572_10603	hypothetical protein	-		0	
SCE1572_10604	Putative metal chaperone, involved in Zn homeostasis, GTPase of COG0523 family	bi	sce_9219	88.94	Putative metal chaperone, involved in Zn homeostasis, GTPase of COG0523 family
SCE1572_10605	hypothetical protein	-		0	
SCE1572_10606	Na鞁翌 multidrug efflux protein	uni	sce_4895	29.53	MATE efflux family protein
SCE1572_10607	Transcriptional regulator, TetR family	bi	sce_9220	85.17	Transcriptional regulator, TetR family
SCE1572_10608	Probable Co/Zn/Cd efflux system membrane fusion protein	bi	sce_9221	83.15	Probable Co/Zn/Cd efflux system membrane fusion protein
SCE1572_10609	Acriflavin resistance protein	bi	sce_9222	91.85	Acriflavin resistance protein
SCE1572_10610	Heavy metal transport/detoxification protein	bi	sce_9042	84.72	mercury ion binding protein
SCE1572_10611	hypothetical protein	-		0	
SCE1572_10612	hypothetical protein	-		0	
SCE1572_10613	Transcriptional regulator, LysR family	uni	sce_3645	50.34	Transcriptional regulator, LysR family
SCE1572_10614	hypothetical protein	uni	sce_6854	44.38	hypothetical protein
SCE1572_10615	hypothetical protein	bi	sce_9224	77.52	hypothetical protein
SCE1572_10616	DNA-directed RNA polymerase specialized sigma subunit, sigma24-like	bi	sce_9225	83.56	DNA-directed RNA polymerase specialized sigma subunit, sigma24-like
SCE1572_10617	hypothetical protein	-		0	
SCE1572_10618	FIG01086053: hypothetical protein	uni	sce_9398	84.62	FIG01086053: hypothetical protein
SCE1572_10619	hypothetical protein	uni	sce_7426	24.8	jmjC domain protein
SCE1572_10620	2,4-diaminobutyrate 4-transaminase(EC:2.6.1.76)	bi	sce_9228	86.67	Pyoverdin biosynthesis protein PvdH, L-2,4-diaminobutyrate:2-oxoglutarate aminotransferase (EC 2.6.1.76)
SCE1572_10621	non-ribosomal peptide synthetase	bi	sce_9229	81.31	FIG01085400: hypothetical protein
SCE1572_10622	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_9230	53.65	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_10623	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_9231	73.65	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_10624	syrP protein, putative	bi	sce_9232	80.18	syrP protein, putative
SCE1572_10625	Hypothetical MbtH-like protein, PA2412 homolog	bi	sce_9233	88	Hypothetical MbtH-like protein, PA2412 homolog
SCE1572_10626	Penicillin acylase II (EC 3.5.1.11)	bi	sce_9234	78.18	Penicillin acylase II (EC 3.5.1.11)
SCE1572_10627	COG4615: ABC-type siderophore export system, fused ATPase and permease components	bi	sce_9235	80.14	putative ABC transporter (ATP-binding protein)
SCE1572_10628	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	bi	sce_9236	79.96	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)
SCE1572_10629	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_9237	81.73	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_10630	hypothetical protein	-		0	
SCE1572_10631	hypothetical protein	-		0	
SCE1572_10632	hypothetical protein	-		0	
SCE1572_10633	putative iron-regulated membrane protein	bi	sce_9240	83.24	FIG138928: iron-regulated membrane protein
SCE1572_10634	TonB-dependent receptor	bi	sce_9238	75.44	TonB-dependent receptor
SCE1572_10635	FIG01089420: hypothetical protein	bi	sce_9239	83.06	FIG01089420: hypothetical protein
SCE1572_10636	putative iron-regulated membrane protein	-		0	
SCE1572_10637	hypothetical protein	bi	sce_9241	73.04	hypothetical protein
SCE1572_10638	hypothetical protein	bi	sce_9242	73.91	hypothetical protein
SCE1572_10639	Two-component response regulator	bi	sce_9244	95.35	Two-component response regulator
SCE1572_10640	Aspartyl-tRNA synthetase (EC 6.1.1.12)	bi	sce_9245	94.92	Aspartyl-tRNA synthetase (EC 6.1.1.12)
SCE1572_10641	Glycoprotein gp2	bi	sce_9246	86.03	Glycoprotein gp2
SCE1572_10642	FIG001454: Transglutaminase-like enzymes, putative cysteine proteases	bi	sce_9247	91.71	FIG001454: Transglutaminase-like enzymes, putative cysteine proteases
SCE1572_10643	FIG002343: hypothetical protein	bi	sce_9248	90	FIG002343: hypothetical protein
SCE1572_10644	FIG022979: MoxR-like ATPases	bi	sce_9249	98.75	FIG022979: MoxR-like ATPases
SCE1572_10645	hypothetical protein	bi	sce_9250	92.68	integral membrane protein
SCE1572_10646	FIG01085681: hypothetical protein	bi	sce_9251	93.13	FIG01085681: hypothetical protein
SCE1572_10647	ADP-ribose pyrophosphatase (EC 3.6.1.13) homolog	bi	sce_9252	89.95	ADP-ribose pyrophosphatase (EC 3.6.1.13) homolog
SCE1572_10648	NAD kinase (EC 2.7.1.23)	bi	sce_9253	89.84	NAD kinase (EC 2.7.1.23)
SCE1572_10649	hypothetical protein	uni	sce_3858	30.81	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_10650	Histone-like protein	bi	sce_9254	98.2	Histone-like protein
SCE1572_10651	Ubiquinone biosynthesis monooxygenase UbiB	bi	sce_9255	93.07	Ubiquinone biosynthesis monooxygenase UbiB
SCE1572_10652	FIG01088181: hypothetical protein	bi	sce_9256	89.24	FIG01088181: hypothetical protein
SCE1572_10653	Citrate synthase (si) (EC 2.3.3.1)	bi	sce_9257	96.3	Citrate synthase (si) (EC 2.3.3.1)
SCE1572_10654	serine/threonine protein kinase	bi	sce_9258	91.5	serine/threonine protein kinase
SCE1572_10655	hypothetical protein	bi	sce_9259	91.78	hypothetical protein
SCE1572_10656	hypothetical protein	bi	sce_9260	84.68	FIG01087363: hypothetical protein
SCE1572_10657	BNR repeat domain protein	bi	sce_9261	86	BNR repeat domain protein
SCE1572_10658	Prion-like-(Q/n-rich)-domain-bearing protein protein 54	bi	sce_9263	89.31	similar to NF-X1 type zinc finger containing protein (2J511) (predicted)
SCE1572_10659	Gamma-glutamyltranspeptidase (EC 2.3.2.2)	bi	sce_9264	88.35	Gamma-glutamyltranspeptidase (EC 2.3.2.2)

SCE1572_10660	Universal stress protein family	bi	sce_9265	96.06	Universal stress protein family
SCE1572_10661	Adenylosuccinate lyase (EC 4.3.2.2)	bi	sce_9266	94.43	Adenylosuccinate lyase (EC 4.3.2.2)
SCE1572_10662	Protein of unknown function DUF885	bi	sce_9267	87.42	protein of unknown function DUF885
SCE1572_10663	Transcriptional regulator	bi	sce_9271	96.67	Transcriptional regulator
SCE1572_10664	Phosphoserine phosphatase (EC 3.1.3.3)	bi	sce_9272	95.91	Phosphoserine phosphatase (EC 3.1.3.3)
SCE1572_10665	Phosphoadenylyl-sulfate reductase [thioredoxin] (EC 1.8.4.8) / Adenylyl-sulfate reductase [thioredoxin] (EC 1.8.4.10)	bi	sce_9273	94.12	Phosphoadenylyl-sulfate reductase [thioredoxin] (EC 1.8.4.8) / Adenylyl-sulfate reductase [thioredoxin] (EC 1.8.4.10)
SCE1572_10666	Arsenical pump-driving ATPase (EC 3.6.3.16)	bi	sce_9274	89.94	Arsenical pump-driving ATPase (EC 3.6.3.16)
SCE1572_10667	Nicotinate phosphoribosyltransferase (EC 2.4.2.11)	bi	sce_9275	85.57	Nicotinate phosphoribosyltransferase (EC 2.4.2.11)
SCE1572_10668	hypothetical protein	-		0	
SCE1572_10669	ABC-type transport system involved in resistance to organic solvents, permease component	bi	sce_9279	97.74	ABC-type transport system involved in resistance to organic solvents, permease component
SCE1572_10670	hypothetical protein	-		0	
SCE1572_10671	ATPase YjeE, predicted to have essential role in cell wall biosynthesis	bi	sce_9283	92.86	ATPase YjeE, predicted to have essential role in cell wall biosynthesis
SCE1572_10672	conserved hypothetical protein SCG11A.16	bi	sce_9284	85.49	conserved hypothetical protein SCG11A.16
SCE1572_10673	Nuclease sbcCD subunit C	bi	sce_9285	81.76	Nuclease sbcCD subunit C
SCE1572_10674	Succinate dehydrogenase cytochrome b558 subunit	bi	sce_9286	89.71	Succinate dehydrogenase cytochrome b558 subunit
SCE1572_10675	Succinate dehydrogenase flavoprotein subunit (EC 1.3.99.1)	bi	sce_9287	95.83	Succinate dehydrogenase flavoprotein subunit (EC 1.3.99.1)
SCE1572_10676	Succinate dehydrogenase iron-sulfur protein (EC 1.3.99.1)	bi	sce_9288	94.87	Succinate dehydrogenase iron-sulfur protein (EC 1.3.99.1)
SCE1572_10677	FIG01085965: hypothetical protein	bi	sce_9289	73.94	FIG01085965: hypothetical protein
SCE1572_10678	High-affinity branched-chain amino acid transport system permease protein LivH (TC 3.A.1.4.1)	bi	sce_9290	96.21	High-affinity branched-chain amino acid transport system permease protein LivH (TC 3.A.1.4.1)
SCE1572_10679	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)	bi	sce_9291	92.71	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)
SCE1572_10680	hypothetical protein	-		0	
SCE1572_10681	RNA binding methyltransferase FtsJ like	bi	sce_9292	95.18	RNA binding methyltransferase FtsJ like
SCE1572_10682	Vitamin B12 ABC transporter, B12-binding component BtuF	bi	sce_9293	78.43	Vitamin B12 ABC transporter, B12-binding component BtuF
SCE1572_10683	Trypsin-2 precursor (EC 3.4.21.4)	bi	sce_9294	81.2	Trypsin-2 precursor (EC 3.4.21.4)
SCE1572_10684	hypothetical protein	-		0	
SCE1572_10685	DNA internalization-related competence protein ComEC/Rec2	bi	sce_9295	88.42	DNA internalization-related competence protein ComEC/Rec2
SCE1572_10686	Radical SAM domain protein	bi	sce_9296	94.56	Radical SAM domain protein
SCE1572_10687	hypothetical protein	bi	sce_9297	96.34	hypothetical protein
SCE1572_10688	thioredoxin	bi	sce_9298	89.81	thioredoxin
SCE1572_10689	hypothetical protein	-		0	
SCE1572_10690	conserved hypothetical protein NMA0935	uni	sce_5451	32.51	Probable ATP-binding protein NMA0346
SCE1572_10691	hypothetical protein	-		0	
SCE1572_10692	hypothetical protein	bi	sce_9299	93.97	hypothetical protein
SCE1572_10693	VgrG protein	bi	sce_9300	88.41	VgrG protein
SCE1572_10694	hypothetical protein	-		0	
SCE1572_10695	hypothetical protein	bi	sce_9306	89.62	FIG01088994: hypothetical protein
SCE1572_10696	DUF2242 domain-containing protein	bi	sce_9307	70.55	Mlr2351 protein
SCE1572_10697	FHA domain containing protein	bi	sce_9308	96.06	FHA domain protein
SCE1572_10698	Signal peptidase I (EC 3.4.21.89)	bi	sce_9309	85.38	Signal peptidase I (EC 3.4.21.89)
SCE1572_10699	Trypsin-2 precursor (EC 3.4.21.4)	bi	sce_9310	89.93	Trypsin-2 precursor (EC 3.4.21.4)
SCE1572_10700	hypothetical protein	-		0	
SCE1572_10701	hypothetical protein	-		0	
SCE1572_10702	hypothetical protein	bi	sce_9311	86.03	hypothetical protein
SCE1572_10703	Glutamate 5-kinase (EC 2.7.2.11) / RNA-binding C-terminal domain PUA	bi	sce_9312	92.25	Glutamate 5-kinase (EC 2.7.2.11) / RNA-binding C-terminal domain PUA
SCE1572_10704	hypothetical protein	bi	sce_9313	90	hypothetical protein
SCE1572_10705	hypothetical protein	uni	sce_4117	36.05	Iojap protein
SCE1572_10706	large ATP-binding protein	-		0	
SCE1572_10707	hypothetical protein	-		0	
SCE1572_10708	hypothetical protein	-		0	
SCE1572_10709	hypothetical protein	-		0	
SCE1572_10710	hypothetical protein	bi	sce_9505	91.89	hypothetical protein
SCE1572_10711	putative ABC transporter ATP-binding protein	bi	sce_9314	85.08	putative ABC transporter ATP-binding protein
SCE1572_10712	signal peptide peptidase SppA, 67K type	bi	sce_9315	85.6	peptidase S49, protease IV:Peptidase S49, SppA
SCE1572_10713	hypothetical protein	bi	sce_9316	93.94	hypothetical protein
SCE1572_10714	hypothetical protein	uni	sce_2984	26.32	conserved hypothetical protein
SCE1572_10715	hypothetical protein	uni	sce_2045	43.75	Mlr6568 protein
SCE1572_10716	hypothetical protein	-		0	
SCE1572_10717	FOG: WD40-like repeat	bi	sce_9370	81.51	FOG: WD40-like repeat
SCE1572_10718	FIG01089663: hypothetical protein	bi	sce_9378	83.05	FIG01089663: hypothetical protein
SCE1572_10719	FOG: GGDEF domain	bi	sce_9379	88.39	FOG: GGDEF domain
SCE1572_10720	Functional role page for Anaerobic nitric oxide reductase transcription regulator NorR	uni	sce_6530	47.93	Functional role page for Anaerobic nitric oxide reductase transcription regulator NorR
SCE1572_10721	YD repeat protein	uni	sce_3939	31.61	FIG01085109: hypothetical protein
SCE1572_10722	hypothetical protein	-		0	
SCE1572_10723	sensory box histidine kinase	uni	sce_6094	51.34	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_10724	hypothetical protein	-		0	
SCE1572_10725	Sensor histidine kinase	bi	sce_9383	83.49	Sensor histidine kinase
SCE1572_10726	hypothetical protein	-		0	
SCE1572_10727	MaoC family protein	-		0	
SCE1572_10728	hypothetical protein	bi	sce_9384	92.78	hypothetical protein
SCE1572_10729	hypothetical protein	bi	sce_9385	93.12	hypothetical protein
SCE1572_10730	polysaccharide deacetylase	bi	sce_9387	90.33	polysaccharide deacetylase
SCE1572_10731	hypothetical protein	bi	sce_9388	94.62	FIG01087725: hypothetical protein
SCE1572_10732	Probable poly(beta-D-mannuronate) O-acetylase (EC 2.3.1.-)	bi	sce_9390	93.48	Probable poly(beta-D-mannuronate) O-acetylase (EC 2.3.1.-)
SCE1572_10733	hypothetical protein	bi	sce_9391	81.42	hypothetical protein
SCE1572_10734	hypothetical protein	bi	sce_9392	60.98	hypothetical protein
SCE1572_10735	hypothetical protein	bi	sce_9393	87.33	hypothetical protein
SCE1572_10736	Tryptophan 2,3-dioxygenase (EC 1.13.11.11)	bi	sce_9394	93.44	Tryptophan 2,3-dioxygenase (EC 1.13.11.11)
SCE1572_10737	FIG01087757: hypothetical protein	bi	sce_9395	85.84	FIG01087757: hypothetical protein
SCE1572_10738	hypothetical protein	bi	sce_9396	80.91	FIG01085894: hypothetical protein
SCE1572_10739	hypothetical protein	-		0	
SCE1572_10740	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_4271	40.96	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_10741	Transcriptional regulator, TetR family	-		0	
SCE1572_10742	FIG01085516: hypothetical protein	uni	sce_9846	82.04	FIG01086622: hypothetical protein
SCE1572_10743	hypothetical protein	-		0	
SCE1572_10744	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	uni	sce_1120	53.69	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_10745	hypothetical protein	bi	sce_10010	86.7	hypothetical protein
SCE1572_10746	FIG01085453: hypothetical protein	bi	sce_9987	95.24	FIG01085453: hypothetical protein
SCE1572_10747	Transcriptional regulator, LysR family	bi	sce_9992	90.82	Transcriptional regulator, LysR family
SCE1572_10748	Permeases of the major facilitator superfamily	bi	sce_9993	87.95	Permeases of the major facilitator superfamily
SCE1572_10749	aldo/keto reductase	bi	sce_10027	72.73	Oxidoreductase
SCE1572_10750	Integration host factor beta subunit	bi	sce_10004	75.81	Integration host factor beta subunit
SCE1572_10751	LigA	bi	sce_827	86.48	hypothetical protein
SCE1572_10752	FIG00486916: hypothetical protein	bi	sce_5142	77.66	FIG00486916: hypothetical protein
SCE1572_10753	Polyvinylalcohol dehydrogenase	uni	sce_6048	76.74	Polyvinylalcohol dehydrogenase
SCE1572_10754	Gamma-glutamyltranspeptidase (EC 2.3.2.2)	uni	sce_1347	41.74	Gamma-glutamyltranspeptidase (EC 2.3.2.2)
SCE1572_10755	putative DEAD box family helicase, phage associated	bi	sce_10007	93.78	putative DEAD box family helicase, phage associated
SCE1572_10756	hypothetical protein	bi	sce_9959	84.93	Cellulose-binding domain protein
SCE1572_10757	Tat (Twin-arginine translocation) pathway signal sequence domain protein	bi	sce_9958	87.04	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_10758	hypothetical protein	bi	sce_10009	67.76	hypothetical protein
SCE1572_10759	hypothetical protein	-		0	
SCE1572_10760	hypothetical protein	-		0	
SCE1572_10761	Nitrilotriacetate monooxygenase component A (EC 1.14.13.-)	-		0	
SCE1572_10762	putative monooxygenase	bi	sce_10003	85.97	putative monooxygenase
SCE1572_10763	hypothetical protein	-		0	
SCE1572_10764	hypothetical protein	-		0	
SCE1572_10765	Putative cytoplasmic protein	bi	sce_10018	91.27	Putative cytoplasmic protein
SCE1572_10766	hypothetical protein	bi	sce_10002	33.33	hypothetical protein
SCE1572_10767	possible glycosyltransferase	bi	sce_10013	86.52	possible glycosyltransferase
SCE1572_10768	Gll1708 protein	bi	sce_8396	86.36	Gll1708 protein
SCE1572_10769	hypothetical protein	bi	sce_8395	85.71	hypothetical protein
SCE1572_10770	hypothetical protein	uni	sce_4751	78.07	hypothetical protein
SCE1572_10771	hypothetical protein	-		0	
SCE1572_10772	hypothetical protein	bi	sce_10029	92.17	hypothetical protein
SCE1572_10773	hypothetical protein	bi	sce_10030	92.98	hypothetical protein
SCE1572_10774	hypothetical protein	bi	sce_10031	90.42	hypothetical protein
SCE1572_10775	hypothetical protein	-		0	
SCE1572_10776	Dipeptide-binding ABC transporter, periplasmic substrate-binding component (TC 3.A.1.5.2)	bi	sce_9407	85.46	Dipeptide-binding ABC transporter, periplasmic substrate-binding component (TC 3.A.1.5.2)
SCE1572_10777	Mannanase	bi	sce_9040	79.01	Mannanase
SCE1572_10778	putative lipoprotein	bi	sce_2922	80.38	putative lipoprotein
SCE1572_10779	hypothetical protein	-		0	
SCE1572_10780	hypothetical protein	-		0	
SCE1572_10781	hypothetical protein	-		0	
SCE1572_10782	hypothetical protein	bi	sce_9409	90.3	hypothetical protein
SCE1572_10783	serine phosphatase	bi	sce_9410	84.91	Serine phosphatase RsbU, regulator of sigma subunit
SCE1572_10784	hypothetical protein	bi	sce_9411	76.5	hypothetical protein
SCE1572_10785	serine/threonine protein kinase	bi	sce_9412	79.71	serine/threonine protein kinase Pkn6
SCE1572_10786	hypothetical protein	uni	sce_9412	74.46	serine/threonine protein kinase Pkn6
SCE1572_10787	Serine-threonine protein kinase	bi	sce_9413	64.67	Serine-threonine protein kinase
SCE1572_10788	RsbR, positive regulator of sigma-B	uni	sce_9946	43.6	RsbR, positive regulator of sigma-B
SCE1572_10789	Superoxide dismutase [Cu-Zn] (EC 1.15.1.1)	bi	sce_9414	85.32	Superoxide dismutase [Cu-Zn] (EC 1.15.1.1)
SCE1572_10790	cellulose-binding, family II	bi	sce_9415	68.93	cellulose-binding, family II
SCE1572_10791	Adenylate cyclase (EC 4.6.1.1)	bi	sce_9416	90.56	Adenylate cyclase (EC 4.6.1.1)
SCE1572_10792	FIG01088745: hypothetical protein	bi	sce_9417	86.62	FIG01088745: hypothetical protein
SCE1572_10793	Sulfate adenylyltransferase, dissimilatory-type (EC 2.7.7.4) / Adenylylsulfate kinase (EC 2.7.1.25)	bi	sce_9418	81.63	Sulfate adenylyltransferase, dissimilatory-type (EC 2.7.7.4) / Adenylylsulfate kinase (EC 2.7.1.25)
SCE1572_10794	hypothetical protein	bi	sce_9419	86.49	conserved hypothetical protein
SCE1572_10795	hypothetical protein	bi	sce_9420	77.61	hypothetical protein
SCE1572_10796	hypothetical protein	bi	sce_9421	54.55	hypothetical protein
SCE1572_10797	hypothetical protein	bi	sce_9422	82.02	Atherin (Sterile alpha motif domain-containing protein 1)
SCE1572_10798	hypothetical protein	bi	sce_9424	83.46	hypothetical protein
SCE1572_10799	ABC-type nitrate/sulfonate/bicarbonate transport system protein	uni	sce_3783	33.04	Urea carboxylase-related ABC transporter, periplasmic substrate-binding protein
SCE1572_10800	Serine/threonine-protein kinase pkn3 (EC 2.7.11.1)	uni	sce_3170	49	serine/threonine kinase Pkn10(EC:2.7.1.-)
SCE1572_10801	hypothetical protein	-		0	
SCE1572_10802	ATP-dependent Clp protease ATP-binding subunit ClpA	bi	sce_9425	85.96	ATP-dependent Clp protease ATP-binding subunit ClpA
SCE1572_10803	hypothetical protein	-		0	
SCE1572_10804	hypothetical protein	-		0	
SCE1572_10805	Chitinase	bi	sce_4489	78.04	Chitinase
SCE1572_10806	hypothetical protein	uni	sce_2965	34.82	FIG01089285: hypothetical protein
SCE1572_10807	FIG01086214: hypothetical protein	bi	sce_2093	86.94	FIG01086214: hypothetical protein
SCE1572_10808	hypothetical protein	bi	sce_9441	69.01	hypothetical protein
SCE1572_10809	hypothetical protein	bi	sce_9442	87.93	hypothetical protein
SCE1572_10810	response regulator	bi	sce_9443	93.44	response regulator
SCE1572_10811	hypothetical protein	-		0	
SCE1572_10812	hypothetical protein	bi	sce_9444	89.37	hypothetical protein-putative transmembrane protein
SCE1572_10813	hypothetical protein	bi	sce_9446	90.41	hypothetical protein
SCE1572_10814	FIG01089050: hypothetical protein	bi	sce_9447	67.28	FIG01089050: hypothetical protein
SCE1572_10815	FIG01088479: hypothetical protein	bi	sce_9448	79.93	FIG01088479: hypothetical protein
SCE1572_10816	hypothetical protein	bi	sce_9449	77.09	hypothetical protein
SCE1572_10817	hypothetical protein	bi	sce_2995	87.7	hypothetical protein
SCE1572_10818	hypothetical protein	bi	sce_2996	85.15	hypothetical protein
SCE1572_10819	Retron-type reverse transcriptase	bi	sce_2998	85.96	RNA-directed DNA polymerase from retron Mx65 (EC 2.7.7.49) (Reverse transcriptase) (Mx65-RT)
SCE1572_10820	hypothetical protein	bi	sce_9459	94.77	hypothetical protein
SCE1572_10821	hypothetical protein	-		0	
SCE1572_10822	Diadenosine tetraphosphatase	bi	sce_9460	88.84	Diadenosine tetraphosphatase
SCE1572_10823	FIG01088986: hypothetical protein	bi	sce_6965	75.13	FIG01088986: hypothetical protein

SCE1572_10824	FIG01085387: hypothetical protein	bi	sce_8729	68.03	FIG01085387: hypothetical protein
SCE1572_10825	Outer membrane protein A precursor	bi	sce_8728	66.67	Outer membrane protein A precursor
SCE1572_10826	hypothetical protein	-		0	
SCE1572_10827	FIG01124780: hypothetical protein	bi	sce_3440	91	FIG01124780: hypothetical protein
SCE1572_10828	hypothetical protein	bi	sce_3441	84.25	hypothetical protein
SCE1572_10829	HAD-superfamily hydrolase, subfamily IA, variant 1 family protein	-		0	
SCE1572_10830	hypothetical protein	bi	sce_3442	88.14	Amidohydrolase 3
SCE1572_10831	ABC transporter substrate-binding protein	bi	sce_2163	79.37	ABC transporter substrate-binding protein
SCE1572_10832	Neurocan core protein precursor (Chondroitin sulfate proteoglycan 3)	uni	sce_8773	35.19	lectin C-type domain protein
SCE1572_10833	hypothetical protein	-		0	
SCE1572_10834	aminopeptidase N(EC:3.4.11.2)	bi	sce_1601	82.36	aminopeptidase N(EC:3.4.11.2)
SCE1572_10835	Sulfate transport system permease protein CysW	uni	sce_365	53.51	Sulfate transport system permease protein CysW
SCE1572_10836	Sulfate transport system permease protein CysT	uni	sce_364	50.17	Sulfate transport system permease protein CysT
SCE1572_10837	sulfate-binding protein	uni	sce_363	43.38	Sulfate and thiosulfate binding protein CysP
SCE1572_10838	BNR repeat domain protein	bi	sce_9473	72.67	BNR repeat domain protein
SCE1572_10839	hypothetical protein	-		0	
SCE1572_10840	hypothetical protein	bi	sce_5249	48.31	FIG01085181: hypothetical protein
SCE1572_10841	2-isopropylmalate synthase (EC 2.3.3.13)	bi	sce_9475	85.45	2-isopropylmalate synthase (EC 2.3.3.13)
SCE1572_10842	hypothetical protein	bi	sce_9476	92.66	FIG01088805: hypothetical protein
SCE1572_10843	hypothetical protein	bi	sce_9477	82.46	hypothetical protein
SCE1572_10844	hypothetical protein	-		0	
SCE1572_10845	Beta-galactosidase (EC 3.2.1.23)	uni	sce_4770	41.67	hypothetical protein
SCE1572_10846	Altronate hydrolase (EC 4.2.1.7)	bi	sce_1385	89.29	Altronate hydrolase (EC 4.2.1.7)
SCE1572_10847	D-galactonate transporter	bi	sce_1384	92.74	D-galactonate transporter
SCE1572_10848	Altronate oxidoreductase (EC 1.1.1.58)	bi	sce_1383	87.23	Altronate oxidoreductase (EC 1.1.1.58)
SCE1572_10849	Oxidoreductase, zinc-binding dehydrogenase family (EC 1.1.1.-)	bi	sce_1382	93.23	Oxidoreductase, zinc-binding dehydrogenase family (EC 1.1.1.-)
SCE1572_10850	hypothetical protein	bi	sce_1381	86.88	amidohydrolase 2
SCE1572_10851	Galactokinase (EC 2.7.1.6)	uni	sce_2475	86.52	Galactokinase (EC 2.7.1.6)
SCE1572_10852	UDP-glucose 4-epimerase (EC 5.1.3.2)	bi	sce_2474	89.09	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_10853	Putative sugar ABC transport system, permease protein YjfF	bi	sce_2473	87.38	Putative sugar ABC transport system, permease protein YjfF
SCE1572_10854	ABC transporter, membrane spanning protein (ribose)	bi	sce_2472	91.94	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_10855	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)	bi	sce_2471	90.12	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)
SCE1572_10856	ABC transporter periplasmic binding protein YtfQ precursor	bi	sce_2470	88.89	ABC transporter periplasmic binding protein YtfQ precursor
SCE1572_10857	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)	bi	sce_5146	79.9	Endo-1,4-beta-xylanase A precursor (EC 3.2.1.8)
SCE1572_10858	Assimilatory nitrate reductase large subunit (EC:1.7.99.4)	bi	sce_9486	93.79	Assimilatory nitrate reductase large subunit (EC:1.7.99.4)
SCE1572_10859	Molybdopterin oxidoreductase, iron sulfur subunit	bi	sce_9487	90.43	Molybdopterin oxidoreductase, iron sulfur subunit
SCE1572_10860	Nitrite reductase [NAD(P)H] small subunit (EC 1.7.1.4)	bi	sce_9488	81.06	Nitrite reductase [NAD(P)H] small subunit (EC 1.7.1.4)
SCE1572_10861	Nitrite reductase [NAD(P)H] large subunit (EC 1.7.1.4)	bi	sce_9489	92.32	Nitrite reductase [NAD(P)H] large subunit (EC 1.7.1.4)
SCE1572_10862	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	bi	sce_9491	77.62	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_10863	2-dehydropantoate 2-reductase (EC 1.1.1.169)	bi	sce_9492	87.95	2-dehydropantoate 2-reductase (EC 1.1.1.169)
SCE1572_10864	hypothetical protein	uni	sce_3392	30.17	integral membrane protein
SCE1572_10865	putative secreted protein	uni	sce_9562	65.93	Collagen triple helix repeat
SCE1572_10866	rRNA small subunit methyltransferase, glucose inhibited division protein GidB	bi	sce_6774	31.77	rRNA small subunit 7-methylguanosine (m7G) methyltransferase GidB
SCE1572_10867	motif=eukaryotic putative RNA-binding region RNP-1 signature	bi	sce_9494	87.19	motif=eukaryotic putative RNA-binding region RNP-1 signature
SCE1572_10868	tetratricopeptide repeat protein	bi	sce_9495	73.7	hypothetical protein
SCE1572_10869	hypothetical protein	bi	sce_9496	84.34	DNA mismatch repair protein MutL
SCE1572_10870	FIG01089649: hypothetical protein	uni	sce_7819	41.04	FIG01089649: hypothetical protein
SCE1572_10871	FIG01085109: hypothetical protein	bi	sce_3939	88.6	FIG01085109: hypothetical protein
SCE1572_10872	Type I restriction-modification system, restriction subunit R (EC 3.1.21.3)	-		0	
SCE1572_10873	Type I restriction-modification system, specificity subunit S (EC 3.1.21.3)	uni	sce_6180	36.04	Type I restriction-modification system, specificity subunit S (EC 3.1.21.3)
SCE1572_10874	hypothetical protein	-		0	
SCE1572_10875	hypothetical protein	-		0	
SCE1572_10876	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)	bi	sce_9506	94.97	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)
SCE1572_10877	probable ATP-binding protein	uni	sce_5451	34.83	Probable ATP-binding protein NMA0346
SCE1572_10878	hypothetical protein	-		0	
SCE1572_10879	RsbR, positive regulator of sigma-B	bi	sce_9509	85.64	RsbR, positive regulator of sigma-B
SCE1572_10880	VgrG protein	bi	sce_9510	82.81	VgrG protein
SCE1572_10881	hypothetical protein	-		0	
SCE1572_10882	Mlr2351 protein	bi	sce_9511	74.96	Mlr2351 protein
SCE1572_10883	FIG01089299: hypothetical protein	bi	sce_9512	85.84	FIG01089299: hypothetical protein
SCE1572_10884	COG3178: Predicted phosphotransferase related to Ser/Thr protein kinases	bi	sce_9513	85.55	COG3178: Predicted phosphotransferase related to Ser/Thr protein kinases
SCE1572_10885	hypothetical protein	bi	sce_9514	83.92	hypothetical protein
SCE1572_10886	Xylanase	bi	sce_9515	76	LOC432261 protein
SCE1572_10887	ABC transporter, ATP-binding protein	bi	sce_9517	90.87	ABC transporter, ATP-binding protein
SCE1572_10888	hypothetical protein	-		0	
SCE1572_10889	Lycopene beta cyclase (EC 1.14.-.-)	bi	sce_9521	95.95	Lycopene beta cyclase (EC 1.14.-.-)
SCE1572_10890	Phosphoribosylglycinamide formyltransferase (EC 2.1.2.2)	bi	sce_9522	88.21	Phosphoribosylglycinamide formyltransferase (EC 2.1.2.2)
SCE1572_10891	hypothetical protein	uni	sce_287	57.14	hypothetical protein
SCE1572_10892	serine/threonine protein kinase	bi	sce_9524	69.15	serine/threonine protein kinase
SCE1572_10893	Phosphoribosylformylglycinamidine cyclo-ligase (EC 6.3.3.1)	bi	sce_9525	91.67	Phosphoribosylformylglycinamidine cyclo-ligase (EC 6.3.3.1)
SCE1572_10894	5-methyl-dCTP pyrophosphohydrolase (EC 3.6.1.-)	bi	sce_9529	87.86	5-methyl-dCTP pyrophosphohydrolase (EC 3.6.1.-)
SCE1572_10895	DoxX family protein	uni	sce_863	31.29	putative membrane protein
SCE1572_10896	hypothetical protein	uni	sce_8874	39.58	putative membrane protein
SCE1572_10897	Cytochrome c-type biogenesis protein CcdA (DsbD analog)	bi	sce_9530	88.28	Cytochrome c-type biogenesis protein CcdA (DsbD analog)
SCE1572_10898	PUTATIVE TRANSMEMBRANE PROTEIN	bi	sce_9531	88.89	PUTATIVE TRANSMEMBRANE PROTEIN
SCE1572_10899	hypothetical protein	-		0	
SCE1572_10900	hypothetical protein	-		0	
SCE1572_10901	Glycine oxidase ThiO (EC 1.4.3.19)	bi	sce_9534	88.47	Glycine oxidase ThiO (EC 1.4.3.19)
SCE1572_10902	hypothetical protein	-		0	
SCE1572_10903	VapC toxin protein	-		0	
SCE1572_10904	hypothetical protein	bi	sce_9537	89.29	hypothetical protein
SCE1572_10905	hypothetical protein	bi	sce_9539	95.03	hypothetical protein
SCE1572_10906	HYpothetical protein	bi	sce_9540	77.64	HYpothetical protein
SCE1572_10907	Signal recognition particle, subunit Ffh SRP54 (TC 3.A.5.1.1)	bi	sce_9541	94.69	Signal recognition particle, subunit Ffh SRP54 (TC 3.A.5.1.1)
SCE1572_10908	FIG01087002: hypothetical protein	bi	sce_9542	76.01	FIG01087002: hypothetical protein
SCE1572_10909	transport-associated	uni	sce_5863	30.55	Single-stranded DNA-binding protein
SCE1572_10910	periplasmic binding protein/LacI transcriptional regulator	uni	sce_7038	62.3	hypothetical protein
SCE1572_10911	hypothetical protein	uni	sce_3858	36.89	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_10912	COG0488: ATPase components of ABC transporters with duplicated ATPase domains	bi	sce_9548	93.5	COG0488: ATPase components of ABC transporters with duplicated ATPase domains
SCE1572_10913	hypothetical protein	bi	sce_9550	75.9	FIG01087760: hypothetical protein
SCE1572_10914	Modification methylase PstI (EC 2.1.1.72)	bi	sce_8717	63.01	Modification methylase PstI (EC 2.1.1.72)
SCE1572_10915	hypothetical protein	-		0	
SCE1572_10916	FIG01088550: hypothetical protein	bi	sce_9551	88.86	FIG01088550: hypothetical protein
SCE1572_10917	FIG00623084: hypothetical protein	bi	sce_9552	89.17	FIG00623084: hypothetical protein
SCE1572_10918	ThiJ/PfpI	uni	sce_7653	44.79	ThiJ/PfpI family protein
SCE1572_10919	FIG01086905: hypothetical protein	bi	sce_9553	87.01	FIG01086905: hypothetical protein
SCE1572_10920	Transcriptional regulator, TetR family	bi	sce_9554	87.84	Transcriptional regulator, TetR family
SCE1572_10921	beta-lactamase	bi	sce_8693	38.34	Beta-lactamase class C and other penicillin binding proteins
SCE1572_10922	putative cytochrome P450 hydroxylase	bi	sce_9555	67.68	putative cytochrome P450 hydroxylase
SCE1572_10923	Pentalenene synthase (EC 4.2.3.7) (PS) (Sesquiterpene synthase) (Sesquiterpene cyclase)	bi	sce_9556	70.4	Pentalenene synthase (EC 4.2.3.7) (PS) (Sesquiterpene synthase) (Sesquiterpene cyclase)
SCE1572_10924	RsbR, positive regulator of sigma-B	bi	sce_9557	77.96	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_10925	hypothetical protein	-		0	
SCE1572_10926	hypothetical protein	-		0	
SCE1572_10927	Gamma-glutamyltranspeptidase (EC 2.3.2.2)	bi	sce_9558	93.08	Gamma-glutamyltranspeptidase (EC 2.3.2.2)
SCE1572_10928	Exonuclease SbcC	bi	sce_9559	75.55	Exonuclease SbcC
SCE1572_10929	conserved hypothetical protein	bi	sce_2568	43.8	FIG01088499: hypothetical protein
SCE1572_10930	TolA protein	uni	sce_9559	39.47	Exonuclease SbcC
SCE1572_10931	conserved hypothetical protein	uni	sce_2954	41.01	hypothetical protein
SCE1572_10932	hypothetical protein	-		0	
SCE1572_10933	hypothetical protein	-		0	
SCE1572_10934	RNA polymerase sigma factor RpoE	uni	sce_10335	47.79	RNA polymerase sigma factor RpoE
SCE1572_10935	FIG01086383: hypothetical protein	uni	sce_3918	53.16	FIG01086383: hypothetical protein
SCE1572_10936	hypothetical protein	-		0	
SCE1572_10937	FIG01086383: hypothetical protein	uni	sce_10333	54.86	hypothetical protein
SCE1572_10938	hypothetical protein	uni	sce_10332	48.59	FIG01087210: hypothetical protein
SCE1572_10939	FIG01086053: hypothetical protein	uni	sce_9398	65.54	FIG01086053: hypothetical protein
SCE1572_10940	hypothetical protein	bi	sce_8783	55.78	hypothetical protein
SCE1572_10941	FIG00445893: hypothetical protein	uni	sce_6987	45.16	hypothetical protein
SCE1572_10942	Type I restriction-modification system, specificity subunit S (EC 3.1.21.3)	uni	sce_6180	35.64	Type I restriction-modification system, specificity subunit S (EC 3.1.21.3)
SCE1572_10943	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)	uni	sce_9506	48	Type I restriction-modification system, DNA-methyltransferase subunit M (EC 2.1.1.72)
SCE1572_10944	hypothetical protein	-		0	
SCE1572_10945	hypothetical protein	-		0	
SCE1572_10946	Type I restriction-modification system, restriction subunit R (EC 3.1.21.3)	uni	sce_10007	25.49	putative DEAD box family helicase, phage associated
SCE1572_10947	hypothetical protein	bi	sce_9423	81.5	hypothetical protein
SCE1572_10948	aculeacin A acylase(EC:3.5.1.-)	uni	sce_7836	30.09	putative penicillin acylase(EC:3.5.1.11)
SCE1572_10949	Two-component response regulator	bi	sce_9560	87.74	Two-component response regulator
SCE1572_10950	GGDEF domain	uni	sce_3917	45.83	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_10951	Fructose-1,6-bisphosphatase, Bacillus type (EC 3.1.3.11)	bi	sce_9561	91.89	Fructose-1,6-bisphosphatase, Bacillus type (EC 3.1.3.11)
SCE1572_10952	hypothetical protein	uni	sce_9562	45.61	Collagen triple helix repeat
SCE1572_10953	Collagen triple helix repeat	uni	sce_5863	53.64	Single-stranded DNA-binding protein
SCE1572_10954	Putative outer membrane or secreted lipoprotein	-		0	
SCE1572_10955	Periplasmic beta-glucosidase (EC 3.2.1.21)	bi	sce_9564	83.04	Periplasmic beta-glucosidase (EC 3.2.1.21)
SCE1572_10956	Quinone oxidoreductase (EC 1.6.5.5)	bi	sce_9569	88.6	Quinone oxidoreductase (EC 1.6.5.5)
SCE1572_10957	FIG01085846: hypothetical protein	bi	sce_9570	77.51	FIG01085846: hypothetical protein
SCE1572_10958	Oligopeptide transport ATP-binding protein OppF (TC 3.A.1.5.1)	bi	sce_9572	89.7	Oligopeptide transport ATP-binding protein OppF (TC 3.A.1.5.1)
SCE1572_10959	Oligopeptide transport ATP-binding protein OppD (TC 3.A.1.5.1)	bi	sce_9573	84.03	Oligopeptide transport ATP-binding protein OppD (TC 3.A.1.5.1)
SCE1572_10960	FIG01087673: hypothetical protein	bi	sce_9574	87.77	FIG01087673: hypothetical protein
SCE1572_10961	FIG01089145: hypothetical protein	bi	sce_9575	87.41	FIG01089145: hypothetical protein
SCE1572_10962	hypothetical protein	-		0	
SCE1572_10963	Methyltransferase type 11	uni	sce_10042	36.84	NADH-FMN oxidoreductase
SCE1572_10964	Cellulose-binding domain protein	bi	sce_9678	84.83	Cellulose-binding domain protein
SCE1572_10965	FIG01086083: hypothetical protein	bi	sce_9679	91.96	FIG01086083: hypothetical protein
SCE1572_10966	putative membrane protein	bi	sce_9680	73.74	putative membrane protein
SCE1572_10967	Very large tegument protein	bi	sce_9681	84.13	hypothetical protein
SCE1572_10968	FolM Alternative dihydrofolate reductase 1	bi	sce_9682	90.24	FolM Alternative dihydrofolate reductase 1
SCE1572_10969	Xaa-Pro aminopeptidase (EC 3.4.11.9)	bi	sce_9683	91.02	Xaa-Pro aminopeptidase (EC 3.4.11.9)
SCE1572_10970	Protease	bi	sce_9684	89.6	Protease
SCE1572_10971	hypothetical protein	bi	sce_9685	80.28	hypothetical protein
SCE1572_10972	hypothetical protein	bi	sce_9686	78.97	hypothetical protein
SCE1572_10973	DNA polymerase I (EC 2.7.7.7)	bi	sce_9687	94.78	DNA polymerase I (EC 2.7.7.7)
SCE1572_10974	hypothetical protein	-		0	
SCE1572_10975	SSU ribosomal protein S20p	bi	sce_9696	94.62	SSU ribosomal protein S20p
SCE1572_10976	hypothetical protein	bi	sce_9697	95.16	hypothetical protein
SCE1572_10977	Proteophosphoglycan ppg4	bi	sce_9698	91.79	Alginate regulatory protein AlgP
SCE1572_10978	RNA polymerase sigma factor RpoE	bi	sce_9699	95.24	RNA polymerase sigma factor RpoE
SCE1572_10979	Carboxy-terminal processing protease (EC 3.4.21.102)	bi	sce_9701	91.51	Carboxy-terminal processing protease (EC 3.4.21.102)
SCE1572_10980	Anaerobic glycerol-3-phosphate dehydrogenase subunit B (EC 1.1.5.3)	bi	sce_9702	91.33	Anaerobic glycerol-3-phosphate dehydrogenase subunit B (EC 1.1.5.3)
SCE1572_10981	Anaerobic glycerol-3-phosphate dehydrogenase subunit A (EC 1.1.5.3)	bi	sce_9703	94.44	Anaerobic glycerol-3-phosphate dehydrogenase subunit A (EC 1.1.5.3)
SCE1572_10982	glycosyl transferase, group 2 family protein	bi	sce_9704	93.12	glycosyl transferase, group 2 family protein
SCE1572_10983	amine oxidase, putative	bi	sce_9705	93.78	hypothetical protein
SCE1572_10984	3-isopropylmalate dehydratase large subunit (EC 4.2.1.33)	bi	sce_9706	95.3	3-isopropylmalate dehydratase large subunit (EC 4.2.1.33)
SCE1572_10985	hypothetical protein	bi	sce_9707	100	hypothetical protein
SCE1572_10986	Beta-ketoadipate enol-lactone hydrolase (EC 3.1.1.24)	bi	sce_9708	86.74	Beta-ketoadipate enol-lactone hydrolase (EC 3.1.1.24)
SCE1572_10987	hypothetical protein	bi	sce_9709	79.43	hypothetical protein

SCE1572_10988	hypothetical protein	bi	sce_9710	85.23	hypothetical protein
SCE1572_10989	putative serine/threonine protein kinase	bi	sce_9711	89.33	hypothetical protein
SCE1572_10990	FIG01088725: hypothetical protein	bi	sce_9712	95.6	FIG01088725: hypothetical protein
SCE1572_10991	Leader peptidase (Prepilin peptidase) (EC 3.4.23.43) / N-methyltransferase (EC 2.1.1.-)	bi	sce_9713	90.03	Leader peptidase (Prepilin peptidase) (EC 3.4.23.43) / N-methyltransferase (EC 2.1.1.-)
SCE1572_10992	hypothetical protein	bi	sce_9714	82.35	hypothetical protein
SCE1572_10993	hypothetical protein	-		0	
SCE1572_10994	FIG01087646: hypothetical protein	bi	sce_9715	91.34	FIG01087646: hypothetical protein
SCE1572_10995	serine/threonine protein kinase	bi	sce_9716	78.54	serine/threonine protein kinase
SCE1572_10996	hypothetical protein	uni	sce_3858	34	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_10997	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	bi	sce_9718	85.36	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)
SCE1572_10998	hypothetical protein	bi	sce_9719	86.08	predicted protein
SCE1572_10999	hypothetical protein	bi	sce_9721	76.47	hypothetical protein
SCE1572_11000	hypothetical protein	bi	sce_9722	78.64	hypothetical protein
SCE1572_11001	Hypothetical protein	bi	sce_9723	92.98	Hypothetical protein
SCE1572_11002	hypothetical protein	bi	sce_9724	74.77	hypothetical protein
SCE1572_11003	Fibrillin 1 precursor	bi	sce_9725	87.83	Fibrillin 1 precursor
SCE1572_11004	OmpA/MotB	bi	sce_9726	80	hypothetical protein
SCE1572_11005	FIG01089681: hypothetical protein	bi	sce_9727	90.02	FIG01089681: hypothetical protein
SCE1572_11006	hypothetical protein	bi	sce_9728	69.23	hypothetical protein
SCE1572_11007	Flagellar hook-length control protein FliK	bi	sce_9729	86.51	Flagellar hook-length control protein FliK
SCE1572_11008	hypothetical protein	-		0	
SCE1572_11009	FIG01089665: hypothetical protein	bi	sce_9730	74.07	FIG01089665: hypothetical protein
SCE1572_11010	Sensor histidine kinase	bi	sce_9731	82.78	sensor histidine kinase
SCE1572_11011	hypothetical protein	-		0	
SCE1572_11012	hypothetical protein	uni	sce_6133	34.46	Twin-arginine translocation protein TatB
SCE1572_11013	PE-PGRS FAMILY PROTEIN	uni	sce_6870	41.56	PE-PGRS FAMILY PROTEIN
SCE1572_11014	hypothetical protein	-		0	
SCE1572_11015	hypothetical protein	-		0	
SCE1572_11016	hypothetical protein	-		0	
SCE1572_11017	hypothetical protein	-		0	
SCE1572_11018	hypothetical protein	-		0	
SCE1572_11019	hypothetical protein	bi	sce_9732	76.85	hypothetical protein
SCE1572_11020	Heavy metal RND efflux outer membrane protein, CzcC family	bi	sce_9733	86.47	Heavy metal RND efflux outer membrane protein, CzcC family
SCE1572_11021	Cobalt/zinc/cadmium efflux RND transporter, membrane fusion protein, CzcB family	bi	sce_9734	82.55	Cobalt/zinc/cadmium efflux RND transporter, membrane fusion protein, CzcB family
SCE1572_11022	Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA	bi	sce_9735	92.66	Cobalt-zinc-cadmium resistance protein CzcA; Cation efflux system protein CusA
SCE1572_11023	GAF sensor signal transduction histidine kinase	bi	sce_9737	93.94	sensor histidine kinase
SCE1572_11024	Two-component response regulator	bi	sce_9738	96.38	Two-component response regulator
SCE1572_11025	Two-component hybrid sensor and regulator	bi	sce_9739	87.13	two-component hybrid sensor and regulator
SCE1572_11026	protein of unknown function DUF1328	bi	sce_9740	94.12	Putative exported protein
SCE1572_11027	hypothetical protein	bi	sce_9741	80.54	hypothetical protein
SCE1572_11028	hypothetical protein	bi	sce_9742	80.56	hypothetical protein
SCE1572_11029	hypothetical protein	bi	sce_9743	80.85	hypothetical protein
SCE1572_11030	Regulator of cell morphogenesis and NO signaling	bi	sce_9744	84.91	Regulator of cell morphogenesis and NO signaling
SCE1572_11031	hypothetical protein	-		0	
SCE1572_11032	hypothetical protein	-		0	
SCE1572_11033	hypothetical protein	bi	sce_9745	48	hypothetical protein
SCE1572_11034	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_9746	98.53	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_11035	Sensor histidine kinase	bi	sce_9747	78.7	Sensor histidine kinase
SCE1572_11036	Two component Transcriptional regulator, Winged helix family	bi	sce_9748	82.79	Two-component response regulator
SCE1572_11037	Transcriptional regulator, XRE family	bi	sce_9749	98.53	Transcriptional regulator, XRE family
SCE1572_11038	hypothetical protein	bi	sce_9750	94.74	hypothetical protein
SCE1572_11039	Malate synthase (EC 2.3.3.9)	bi	sce_9751	93.28	Malate synthase (EC 2.3.3.9)
SCE1572_11040	Isocitrate lyase (EC 4.1.3.1)	bi	sce_9752	95.83	Isocitrate lyase (EC 4.1.3.1)
SCE1572_11041	Glutaminyl-tRNA synthetase (EC 6.1.1.18)	bi	sce_9754	48.67	hypothetical protein
SCE1572_11042	Large exoproteins involved in heme utilization or adhesion	bi	sce_9755	66.31	Large exoproteins involved in heme utilization or adhesion
SCE1572_11043	FIG01088331: hypothetical protein	bi	sce_9757	91.56	Serine/threonine protein kinase
SCE1572_11044	Glucose-1-phosphate thymidylyltransferase (EC 2.7.7.24)	bi	sce_7609	64.71	Glucose-1-phosphate thymidylyltransferase (EC 2.7.7.24)
SCE1572_11045	hypothetical protein	-		0	
SCE1572_11046	FIG01085038: hypothetical protein	bi	sce_9758	85.65	FIG01085038: hypothetical protein
SCE1572_11047	FIG01089141: hypothetical protein	bi	sce_9760	74.79	FIG01089141: hypothetical protein
SCE1572_11048	FIG01084877: hypothetical protein	bi	sce_9761	87.79	FIG01084877: hypothetical protein
SCE1572_11049	FIG01088528: hypothetical protein	bi	sce_9762	93.98	FIG01088528: hypothetical protein
SCE1572_11050	hypothetical protein	bi	sce_9763	71.31	hypothetical protein
SCE1572_11051	RNA polymerase sigma factor RpoE	bi	sce_9765	90.17	RNA polymerase sigma factor RpoE
SCE1572_11052	ZK84.1	bi	sce_9766	85.42	ZK84.1
SCE1572_11053	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)	bi	sce_9767	90.53	Methylcrotonyl-CoA carboxylase biotin-containing subunit (EC 6.4.1.4)
SCE1572_11054	hypothetical protein	bi	sce_9771	85.03	hypothetical protein
SCE1572_11055	Uncharacterized protein y4lF	bi	sce_9772	85.68	hypothetical protein
SCE1572_11056	hypothetical protein	bi	sce_9773	86.57	hypothetical protein
SCE1572_11057	hypothetical protein	-		0	
SCE1572_11058	hypothetical protein	uni	sce_4583	37.41	FIG01085899: hypothetical protein
SCE1572_11059	transposase IS116/IS110/IS902 family protein	-		0	
SCE1572_11060	Rhs protein	uni	sce_10193	32.65	Rhs family carbohydrate-binding protein
SCE1572_11061	Rhs family protein	bi	sce_4583	43.75	FIG01085899: hypothetical protein
SCE1572_11062	VgrG protein	uni	sce_4581	58.65	VgrG protein
SCE1572_11063	hypothetical protein	uni	sce_1181	28.78	Membrane protein involved in colicin uptake-like protein
SCE1572_11064	hypothetical protein	uni	sce_9779	81.88	hypothetical protein
SCE1572_11065	hypothetical protein	bi	sce_9779	83.81	hypothetical protein
SCE1572_11066	Collagen alpha 1(I) chain precursor	bi	sce_9780	89.06	Collagen alpha 1(I) chain precursor
SCE1572_11067	hypothetical protein	-		0	
SCE1572_11068	phosphoesterase, PHP-like	bi	sce_9813	86.09	phosphoesterase, PHP-like
SCE1572_11069	Cystathionine beta-synthase (EC 4.2.1.22)	bi	sce_9814	94.82	Cystathionine beta-synthase (EC 4.2.1.22)
SCE1572_11070	Metal-dependent hydrolase	bi	sce_9815	86.44	Metal-dependent hydrolase
SCE1572_11071	hypothetical protein	uni	sce_9760	52.92	FIG01089141: hypothetical protein
SCE1572_11072	Thioredoxin reductase (EC 1.8.1.9)	bi	sce_9822	84.64	Thioredoxin reductase (EC 1.8.1.9)
SCE1572_11073	hypothetical protein	bi	sce_9823	89.73	hypothetical protein
SCE1572_11074	hypothetical protein	bi	sce_9824	82.17	hypothetical protein
SCE1572_11075	RNA polymerase sigma-70 factor	bi	sce_9825	95.6	RNA polymerase sigma-70 factor
SCE1572_11076	collagen-like protein SclB	bi	sce_9826	73.82	collagen-like protein SclB
SCE1572_11077	Transcription elongation factor	bi	sce_9827	90.18	Transcription elongation factor
SCE1572_11078	hypothetical protein	-		0	
SCE1572_11079	Response regulator	bi	sce_9829	70.94	Response regulator
SCE1572_11080	Sensory histidine kinase CreB	bi	sce_9830	81.7	Sensory histidine kinase CreB
SCE1572_11081	sensor histidine kinase	bi	sce_9831	78.18	sensor histidine kinase
SCE1572_11082	Two component response regulator	bi	sce_9832	86.97	Two component response regulator
SCE1572_11083	response regulator	bi	sce_9833	77.12	response regulator
SCE1572_11084	hypothetical protein	-		0	
SCE1572_11085	Aspartyl/Asparaginyl beta-hydroxylase	-		0	
SCE1572_11086	hypothetical protein	-		0	
SCE1572_11087	Methylthioribulose-1-phosphate dehydratase (EC 4.2.1.109)	uni	sce_1720	46.6	Methylthioribulose-1-phosphate dehydratase (EC 4.2.1.109)
SCE1572_11088	1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase (EC 1.13.11.54)	uni	sce_1721	50	1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase (EC 1.13.11.54)
SCE1572_11089	Methylthioribose-1-phosphate isomerase (EC 5.3.1.23)	uni	sce_1751	45.88	Methylthioribose-1-phosphate isomerase (EC 5.3.1.23)
SCE1572_11090	Aspartate aminotransferase (EC 2.6.1.1)	bi	sce_9835	90.86	Aspartate aminotransferase (EC 2.6.1.1)
SCE1572_11091	putative nicotianamine synthase	bi	sce_9836	90.44	nicotianamine synthase 3
SCE1572_11092	hypothetical protein	-		0	
SCE1572_11093	Asparagine synthetase [glutamine-hydrolyzing] (EC 6.3.5.4)	bi	sce_9837	89.85	Asparagine synthetase [glutamine-hydrolyzing] (EC 6.3.5.4)
SCE1572_11094	DNA-damage-inducible protein	bi	sce_9838	84.14	DNA-damage-inducible protein
SCE1572_11095	putative methylase of polypeptide chain release factor	-		0	
SCE1572_11096	Gll1302 protein	bi	sce_9839	87.06	Gll1302 protein
SCE1572_11097	conserved hypothetical protein	bi	sce_9840	89.52	hypothetical protein
SCE1572_11098	TonB-dependent receptor	bi	sce_9841	86.18	TonB-dependent receptor
SCE1572_11099	probable ABC transporter ATP-binding protein	bi	sce_9842	89.15	probable ABC transporter ATP-binding protein
SCE1572_11100	FIG00559100: hypothetical protein	uni	sce_1878	47.62	FIG01087871: hypothetical protein
SCE1572_11101	hypothetical protein	-		0	
SCE1572_11102	COG1028: Dehydrogenases with different specificities (related to short-chain alcohol dehydrogenases)	bi	sce_9843	93.36	short-chain dehydrogenase/reductase SDR
SCE1572_11103	hypothetical protein	bi	sce_6096	70.67	FIG01085366: hypothetical protein
SCE1572_11104	RNA polymerase sigma factor RpoE	bi	sce_6097	88.1	RNA polymerase sigma factor RpoE
SCE1572_11105	hypothetical protein	bi	sce_6098	79.06	hypothetical protein
SCE1572_11106	FIG01087202: hypothetical protein	bi	sce_6099	72.4	FIG01087202: hypothetical protein
SCE1572_11107	hydrolase, alpha/beta fold family	-		0	
SCE1572_11108	HupE-UreJ family metal transporter	-		0	
SCE1572_11109	hypothetical protein	-		0	
SCE1572_11110	Aromatic hydrocarbon utilization transcriptional regulator CatR (LysR family)	uni	sce_3966	55.42	LysR family transcriptional regulator YnfL
SCE1572_11111	FIG01088103: hypothetical protein	bi	sce_311	56.35	FIG01088103: hypothetical protein
SCE1572_11112	Putative methyltransferase	bi	sce_1119	44.75	Methyltransferase
SCE1572_11113	cytochrome c Hsc	bi	sce_9847	77.17	Cytochrome c peroxidase (EC 1.11.1.5)
SCE1572_11114	Beta-lactamase class C and other penicillin binding proteins	bi	sce_7062	95.42	Beta-lactamase class C and other penicillin binding proteins
SCE1572_11115	Type III effector HrpW, hairpin with pectate lyase domain	uni	sce_5529	62.86	Type III effector HrpW, hairpin with pectate lyase domain
SCE1572_11116	Transcriptional regulator, TetR family	uni	sce_1100	35.53	Transcriptional regulator, GntR family / Transcriptional regulator, TetR family
SCE1572_11117	FIG00814846: hypothetical protein	bi	sce_6854	59.34	hypothetical protein
SCE1572_11118	RsbR, positive regulator of sigma-B	bi	sce_8356	76.2	RsbR, positive regulator of sigma-B
SCE1572_11119	FIG00841528: hypothetical protein	bi	sce_8357	84.04	FIG00841528: hypothetical protein
SCE1572_11120	Transcriptional regulator, ArsR family	bi	sce_6777	88	Transcriptional regulator, ArsR family
SCE1572_11121	hypothetical protein	bi	sce_6778	90.3	hypothetical protein
SCE1572_11122	hypothetical protein	uni	sce_540	37.61	FIG01089269: hypothetical protein
SCE1572_11123	FIG01086874: hypothetical protein	uni	sce_1320	70.35	FIG01086874: hypothetical protein
SCE1572_11124	FIG01086874: hypothetical protein	bi	sce_1320	76.22	FIG01086874: hypothetical protein
SCE1572_11125	FIG01089035: hypothetical protein	bi	sce_3466	77.84	FIG01089035: hypothetical protein
SCE1572_11126	5'-nucleotidase (EC 3.1.3.5)	bi	sce_9853	83.62	5'-nucleotidase (EC 3.1.3.5)
SCE1572_11127	transcriptional regulator, LuxR family protein	uni	sce_4598	42.42	Response regulator
SCE1572_11128	hypothetical protein	-		0	
SCE1572_11129	conserved hypothetical protein-putative thiol-disulfide isomerase or thioredoxin	bi	sce_9861	71.81	hypothetical protein
SCE1572_11130	FIG01088894: hypothetical protein	bi	sce_3722	82.12	FIG01088894: hypothetical protein
SCE1572_11131	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	bi	sce_3725	93.61	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)
SCE1572_11132	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)	bi	sce_3724	84.78	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)
SCE1572_11133	Ribose ABC transport system, periplasmic ribose-binding protein RbsB (TC 3.A.1.2.1)	bi	sce_3723	82.94	Ribose ABC transport system, periplasmic ribose-binding protein RbsB (TC 3.A.1.2.1)
SCE1572_11134	Endo alpha-1,4 polygalactosaminidase precusor precursor	bi	sce_8378	82.87	Endo alpha-1,4 polygalactosaminidase precusor precursor
SCE1572_11135	domain of unknown function DUF1745	uni	sce_9411	26.63	hypothetical protein
SCE1572_11136	PAS/PAC sensor signal transduction histidine kinase	uni	sce_9831	30.41	sensor histidine kinase
SCE1572_11137	FIG01087499: hypothetical protein	bi	sce_8625	70.05	FIG01087499: hypothetical protein
SCE1572_11138	hypothetical protein	-		0	
SCE1572_11139	Malonyl CoA-acyl carrier protein transacylase (EC 2.3.1.39)	uni	sce_3858	33.8	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_11140	hypothetical protein	-		0	
SCE1572_11141	Internalin-like protein (LPXTG motif) Lmo0333 homolog	uni	sce_7385	55.69	Internalin-like protein (LPXTG motif) Lmo0333 homolog
SCE1572_11142	hypothetical protein	-		0	
SCE1572_11143	Enoyl-[acyl-carrier-protein] reductase [NADPH] (EC 1.3.1.10)	uni	sce_9845	54.07	Enoyl-[acyl-carrier-protein] reductase [NADPH] (EC 1.3.1.10)
SCE1572_11144	Transcriptional regulator, TetR family	uni	sce_9844	54.4	Transcriptional regulator, TetR family
SCE1572_11145	Azoreductase	bi	sce_9872	83.74	Azoreductase
SCE1572_11146	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)	uni	sce_9491	47.34	Chemotaxis protein methyltransferase CheR (EC 2.1.1.80)
SCE1572_11147	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	uni	sce_4350	26.72	Non-ribosomal peptide synthase MxcG
SCE1572_11148	hypothetical protein	uni	sce_4745	41.41	HAD-superfamily hydrolase, subfamily IA, variant 3
SCE1572_11149	hypothetical protein	-		0	
SCE1572_11150	Probable lipoprotein	-		0	
SCE1572_11151	Trans-aconitate 2-methyltransferase (EC 2.1.1.144)	bi	sce_9873	89.11	Trans-aconitate 2-methyltransferase (EC 2.1.1.144)

SCE1572_11152	hypothetical protein	bi	sce_9874	85.88	hypothetical protein
SCE1572_11153	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_8393	58.91	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_11154	hypothetical protein	-		0	
SCE1572_11155	Transcriptional regulator, LysR family	uni	sce_6321	44.2	Transcriptional regulator, LysR family
SCE1572_11156	hypothetical protein	bi	sce_7817	75.61	hypothetical protein
SCE1572_11157	FIG01087249: hypothetical protein	bi	sce_2338	95	Transposase
SCE1572_11158	FIG01087249: hypothetical protein	uni	sce_2337	87.95	FIG01087249: hypothetical protein
SCE1572_11159	putative transcriptional regulator	bi	sce_9876	87.43	transcriptional regulator, MarR family
SCE1572_11160	Methanol oxidation genes, glmU-like	bi	sce_9877	79.11	Methanol oxidation genes, glmU-like
SCE1572_11161	Endoglucanase (EC 3.2.1.4)	bi	sce_9887	77.92	Endoglucanase (EC 3.2.1.4)
SCE1572_11162	Histidinol-phosphate aminotransferase (EC 2.6.1.9)	bi	sce_9888	91.69	Histidinol-phosphate aminotransferase (EC 2.6.1.9)
SCE1572_11163	FIG01089677: hypothetical protein	bi	sce_9890	94.25	FIG01089677: hypothetical protein
SCE1572_11164	Helix-turn-helix motif	-		0	
SCE1572_11165	Beta-phosphoglucomutase (EC 5.4.2.6)	bi	sce_9891	84.31	Beta-phosphoglucomutase (EC 5.4.2.6)
SCE1572_11166	hypothetical protein	bi	sce_9892	91.15	hypothetical protein
SCE1572_11167	COGs COG0840	uni	sce_8358	65.52	COGs COG0840
SCE1572_11168	Xylose ABC transporter, substrate-binding component	uni	sce_6685	54	Xylose ABC transporter, substrate-binding component
SCE1572_11169	Gll0645 protein	uni	sce_7494	41.2	FIG01087054: hypothetical protein
SCE1572_11170	FIG01087915: hypothetical protein	bi	sce_10020	93.06	FIG01087915: hypothetical protein
SCE1572_11171	hypothetical protein	bi	sce_10021	77.48	hypothetical protein
SCE1572_11172	Transcriptional regulator, DeoR family	bi	sce_9911	86.02	Transcriptional regulator, DeoR family
SCE1572_11173	Bll7849 protein	bi	sce_9912	84.71	Bll7849 protein
SCE1572_11174	FIG01086704: hypothetical protein	bi	sce_9913	71.58	FIG01086704: hypothetical protein
SCE1572_11175	FIG01087821: hypothetical protein	bi	sce_9914	84.51	FIG01087821: hypothetical protein
SCE1572_11176	hypothetical protein	-		0	
SCE1572_11177	FIG01087702: hypothetical protein	bi	sce_9915	88.93	FIG01087702: hypothetical protein
SCE1572_11178	hypothetical protein	-		0	
SCE1572_11179	hypothetical protein	bi	sce_9922	94.61	FIG01086687: hypothetical protein
SCE1572_11180	hypothetical protein	bi	sce_9924	76.11	cell wall surface anchor family protein
SCE1572_11181	FIG01089161: hypothetical protein	bi	sce_9925	95.5	FIG01089161: hypothetical protein
SCE1572_11182	hypothetical protein	bi	sce_9926	56.36	Predicted outer membrane protein
SCE1572_11183	putative methyltransferase	bi	sce_9927	89.67	putative methyltransferase
SCE1572_11184	ThiJ/PfpI family protein	uni	sce_6953	30.86	Protein ThiJ
SCE1572_11185	oxidoreductase, short chain dehydrogenase/reductase family	uni	sce_49	54.39	Oxidoreductase
SCE1572_11186	Collagen triple helix repeat	bi	sce_9928	60.77	PE-PGRS FAMILY PROTEIN
SCE1572_11187	hypothetical protein	-		0	
SCE1572_11188	hypothetical protein	-		0	
SCE1572_11189	hypothetical protein	bi	sce_2238	67.36	hypothetical protein
SCE1572_11190	hypothetical protein	-		0	
SCE1572_11191	Adenylosuccinate synthetase (EC 6.3.4.4)	bi	sce_9930	97.42	Adenylosuccinate synthetase (EC 6.3.4.4)
SCE1572_11192	ATP phosphoribosyltransferase regulatory subunit (EC 2.4.2.17)	bi	sce_9931	90.09	ATP phosphoribosyltransferase regulatory subunit (EC 2.4.2.17)
SCE1572_11193	RNA polymerase sigma-54 factor RpoN	bi	sce_9932	97.94	RNA polymerase sigma-54 factor RpoN
SCE1572_11194	Phosphoglycolate phosphatase (EC 3.1.3.18)	bi	sce_9933	83.98	Phosphoglycolate phosphatase (EC 3.1.3.18)
SCE1572_11195	hypothetical protein	bi	sce_9948	70.23	hypothetical protein
SCE1572_11196	conserved protein with diacylglycerol kinase catalytic domain	bi	sce_9947	83.22	conserved protein with diacylglycerol kinase catalytic domain
SCE1572_11197	hypothetical protein	uni	sce_5889	28.57	NADH-ubiquinone oxidoreductase chain J (EC 1.6.5.3)
SCE1572_11198	Cysteine desulfurase (EC 2.8.1.7)	bi	sce_9949	93.33	Cysteine desulfurase (EC 2.8.1.7)
SCE1572_11199	FIG01089170: hypothetical protein	bi	sce_9950	84.57	FIG01089170: hypothetical protein
SCE1572_11200	putative cytochrome P450 hydroxylase	bi	sce_9951	81.38	putative cytochrome P450 hydroxylase
SCE1572_11201	FIG01086948: hypothetical protein	bi	sce_9952	63.28	FIG01086948: hypothetical protein
SCE1572_11202	histidinol-phosphate aminotransferase	bi	sce_9953	87.68	Biosynthetic Aromatic amino acid aminotransferase beta (EC 2.6.1.57)
SCE1572_11203	hypothetical protein	-		0	
SCE1572_11204	ATPase	-		0	
SCE1572_11205	hypothetical protein	-		0	
SCE1572_11206	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_9954	93.53	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_11207	hypothetical protein	bi	sce_3482	51.11	Adenosylhomocysteinase (EC 3.3.1.1)
SCE1572_11208	Coenzyme F390 synthetase	bi	sce_9956	88.82	Coenzyme F390 synthetase
SCE1572_11209	Poly(glycerol-phosphate) alpha-glucosyltransferase (EC 2.4.1.52)	bi	sce_9957	89.95	Poly(glycerol-phosphate) alpha-glucosyltransferase (EC 2.4.1.52)
SCE1572_11210	hypothetical protein	bi	sce_9963	82.71	hypothetical protein
SCE1572_11211	FIG01089506: hypothetical protein	bi	sce_9964	78.13	FIG01089506: hypothetical protein
SCE1572_11212	putative sigma-54 dependent transcriptional regulator	uni	sce_5675	51.31	Two-component system regulatory protein
SCE1572_11213	hypothetical protein	-		0	
SCE1572_11214	Type IV fimbrial biogenesis protein PilY1	uni	sce_3794	50.66	Type IV fimbrial biogenesis protein PilY1
SCE1572_11215	WD-40 repeat protein	uni	sce_7069	65.61	WD-40 repeat protein
SCE1572_11216	hypothetical protein	uni	sce_3796	52.79	hypothetical protein
SCE1572_11217	FIG01085128: hypothetical protein	bi	sce_9972	71.28	FIG01085128: hypothetical protein
SCE1572_11218	Catabolite control protein A	bi	sce_9973	82.58	Catabolite control protein A
SCE1572_11219	hypothetical protein	-		0	
SCE1572_11220	transcriptional regulator, LysR family	uni	sce_3645	38.74	Transcriptional regulator, LysR family
SCE1572_11221	hypothetical protein	-		0	
SCE1572_11222	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	uni	sce_5211	46.18	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_11223	hypothetical protein	bi	sce_4542	91.3	hypothetical protein
SCE1572_11224	Kazal domain protein	uni	sce_2393	86.67	Kazal domain protein
SCE1572_11225	Putative outer membrane protein	bi	sce_2399	98.02	Putative outer membrane protein
SCE1572_11226	FIG01089115: hypothetical protein	bi	sce_2398	97.42	FIG01089115: hypothetical protein
SCE1572_11227	NAD dependent epimerase/dehydratase family protein	bi	sce_2397	98.53	3-beta hydroxysteroid dehydrogenase/isomerase family protein in hypothetical gene cluster
SCE1572_11228	Transcriptional regulator, TetR family	bi	sce_2396	98.65	Transcriptional regulator, TetR family
SCE1572_11229	hypothetical protein	-		0	
SCE1572_11230	endo-1, 4-beta-xylanase	bi	sce_4485	85.32	Endo-1,4-beta-xylanase C precursor (EC 3.2.1.8) (Xylanase C) (1,4-beta-D-xylan xylanohydrolase C)
SCE1572_11231	Catabolite control protein A	bi	sce_9974	81.76	Catabolite control protein A
SCE1572_11232	hypothetical protein	bi	sce_9975	84.11	hypothetical protein
SCE1572_11233	hypothetical protein	bi	sce_9976	76.6	conserved hypothetical protein
SCE1572_11234	UDP-glucose 4-epimerase (EC 5.1.3.2)	uni	sce_7585	69.35	UDP-glucose 4-epimerase (EC 5.1.3.2)
SCE1572_11235	NAD-dependent epimerase/dehydratase	bi	sce_9977	83.01	NAD-dependent epimerase/dehydratase
SCE1572_11236	Radical SAM domain protein	bi	sce_9978	83.68	Radical SAM domain protein
SCE1572_11237	Glycosyltransferase	bi	sce_9979	87.22	Glycosyltransferase
SCE1572_11238	Uncharacterized protein conserved in bacteria	bi	sce_9980	85.96	Uncharacterized protein conserved in bacteria
SCE1572_11239	dTDP-glucose 4,6-dehydratase (EC 4.2.1.46)	bi	sce_9981	84.52	dTDP-glucose 4,6-dehydratase (EC 4.2.1.46)
SCE1572_11240	hypothetical protein	bi	sce_3744	80.41	hypothetical protein
SCE1572_11241	Oxidoreductase	uni	sce_5896	45.99	putative oxidoreductase
SCE1572_11242	Endoglucanase B precursor (EC 3.2.1.4) (Endo-1,4-beta-glucanase B) (Cellulase B)	bi	sce_1013	85.58	Endoglucanase B precursor (EC 3.2.1.4) (Endo-1,4-beta-glucanase B) (Cellulase B)
SCE1572_11243	Ribosomal protein L11 methyltransferase (EC 2.1.1.-)	bi	sce_4521	85.86	Ribosomal protein L11 methyltransferase (EC 2.1.1.-)
SCE1572_11244	FIG01085402: hypothetical protein	bi	sce_10033	86.92	FIG01085402: hypothetical protein
SCE1572_11245	hypothetical protein	-		0	
SCE1572_11246	Patatin	bi	sce_5205	64.22	Patatin
SCE1572_11247	hypothetical protein	-		0	
SCE1572_11248	vitamin K-dependent protein C (Autoprothrombin IIA) (Anticoagulant protein C) (Blood coagulationfactor XIV)(EC:3.4.21.6	bi	sce_597	32.2	Secreted trypsin-like serine protease
SCE1572_11249	Phosphatidylglycerophosphatase B (EC 3.1.3.27)	bi	sce_10035	81.23	Phosphatidylglycerophosphatase B (EC 3.1.3.27)
SCE1572_11250	TOBE domain protein	-		0	
SCE1572_11251	Outer membrane stress sensor protease DegS	uni	sce_4661	39.5	DegP protease
SCE1572_11252	hypothetical protein	-		0	
SCE1572_11253	Multiple EGF-like-domain protein 3 precursor	bi	sce_10036	81.03	Multiple EGF-like-domain protein 3 precursor
SCE1572_11254	Sensor protein	bi	sce_10037	88.74	Sensor protein
SCE1572_11255	methyl-accepting chemotaxis sensory transducer	bi	sce_10038	92.68	methyl-accepting chemotaxis sensory transducer
SCE1572_11256	FIG01088757: hypothetical protein	bi	sce_10039	80.47	FIG01088757: hypothetical protein
SCE1572_11257	acireductone dioxygenase enzyme ARD and ARD'	bi	sce_10040	83.01	acireductone dioxygenase enzyme ARD and ARD'
SCE1572_11258	hypothetical protein	bi	sce_10041	91.74	hypothetical protein
SCE1572_11259	NADH-FMN oxidoreductase	bi	sce_10042	92.88	NADH-FMN oxidoreductase
SCE1572_11260	5,10-methylenetetrahydrofolate reductase (EC 1.5.1.20)	bi	sce_10043	94.39	5,10-methylenetetrahydrofolate reductase (EC 1.5.1.20)
SCE1572_11261	NAD/NADP transhydrogenase alpha subunit	bi	sce_10044	90.53	NAD/NADP transhydrogenase alpha subunit
SCE1572_11262	Glycosyltransferase	bi	sce_10045	87.71	glycosyl transferase, group 1
SCE1572_11263	Selenophosphate synthetase-related proteins	bi	sce_10046	89.15	Selenophosphate synthetase-related proteins
SCE1572_11264	Histone acetyltransferase HPA2 and related acetyltransferases	bi	sce_10047	89.8	hypothetical protein
SCE1572_11265	Biotin synthase-related enzyme	bi	sce_10048	92.99	Biotin synthase-related enzyme
SCE1572_11266	Nitrilase (EC 3.5.5.7)	bi	sce_10049	96.77	Nitrilase (EC 3.5.5.7)
SCE1572_11267	FIG00452614: hypothetical protein	bi	sce_10050	99.38	FIG00452614: hypothetical protein
SCE1572_11268	3'-to-5' exoribonuclease RNase R	bi	sce_10051	93.54	3'-to-5' exoribonuclease RNase R
SCE1572_11269	DSBA oxidoreductase	bi	sce_10052	79.01	DsbA oxidoreductase
SCE1572_11270	Adenosine deaminase (EC 3.5.4.4)	bi	sce_10053	92.44	Adenosine deaminase (EC 3.5.4.4)
SCE1572_11271	NAD synthetase (EC 6.3.1.5) / Glutamine amidotransferase chain of NAD synthetase	bi	sce_10054	94.21	NAD synthetase (EC 6.3.1.5) / Glutamine amidotransferase chain of NAD synthetase
SCE1572_11272	PE-PGRS FAMILY PROTEIN	bi	sce_10055	85.02	FIG01087036: hypothetical protein
SCE1572_11273	hypothetical protein	bi	sce_10056	94.08	hypothetical protein
SCE1572_11274	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_10057	97.52	diguanylate cyclase (GGDEF domain)
SCE1572_11275	FHA domain protein	bi	sce_10058	95.14	FHA domain protein
SCE1572_11276	hypothetical protein	bi	sce_10060	83.89	hypothetical protein
SCE1572_11277	Phosphoribosylamine--glycine ligase (EC 6.3.4.13)	bi	sce_10061	94.13	Phosphoribosylamine--glycine ligase (EC 6.3.4.13)
SCE1572_11278	hypothetical protein	-		0	
SCE1572_11279	dCMP deaminase (EC 3.5.4.12); Late competence protein ComEB	bi	sce_10062	96.3	dCMP deaminase (EC 3.5.4.12); Late competence protein ComEB
SCE1572_11280	Flagellar regulatory protein FleQ	bi	sce_10063	88.22	Flagellar regulatory protein FleQ
SCE1572_11281	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)	bi	sce_10064	84.03	Adenylate cyclase (EC 4.6.1.1) / Guanylate cyclase (EC 4.6.1.2)
SCE1572_11282	conserved hypothetical protein SCD8A.23	bi	sce_10065	82.24	hypothetical protein
SCE1572_11283	hypothetical protein	bi	sce_10067	89.69	FIG01084893: hypothetical protein
SCE1572_11284	FIG01087187: hypothetical protein	bi	sce_10068	85.34	FIG01087187: hypothetical protein
SCE1572_11285	Peptide deformylase (EC 3.5.1.88)	bi	sce_10069	90.65	Peptide deformylase (EC 3.5.1.88)
SCE1572_11286	5'-nucleotidase (EC 3.1.3.5)	bi	sce_1373	46.33	5'-nucleotidase (EC 3.1.3.5)
SCE1572_11287	C4-type zinc finger protein, DksA/TraR family	bi	sce_10070	94.85	C4-type zinc finger protein, DksA/TraR family
SCE1572_11288	FIG01086802: hypothetical protein	bi	sce_10071	84.59	FIG01086802: hypothetical protein
SCE1572_11289	hypothetical protein	-		0	
SCE1572_11290	Chaperone protein DnaK	bi	sce_10072	96.87	Chaperone protein DnaK
SCE1572_11291	LSU ribosomal protein L31p	bi	sce_10074	100	LSU ribosomal protein L31p
SCE1572_11292	hypothetical protein	bi	sce_10075	90.72	FIG069887: hypothetical protein
SCE1572_11293	Peptide chain release factor 1	bi	sce_10076	95.37	Peptide chain release factor 1
SCE1572_11294	hypothetical protein	bi	sce_10077	84.95	hypothetical protein
SCE1572_11295	Bis(5'-nucleosyl)-tetraphosphatase (asymmetrical) (EC 3.6.1.17)	bi	sce_10078	91.07	HIT family hydrolase
SCE1572_11296	FAD linked oxidase domain protein	bi	sce_10079	92.34	Alkyldihydroxyacetonephosphate synthase
SCE1572_11297	methyltransferase, putative	bi	sce_10080	77.94	hypothetical protein
SCE1572_11298	Phosphatidylserine decarboxylase (EC 4.1.1.65)	bi	sce_10081	92.95	Phosphatidylserine decarboxylase (EC 4.1.1.65)
SCE1572_11299	Metal-dependent hydrolases of the beta-lactamase superfamily I	bi	sce_10082	89.19	Metal-dependent hydrolases of the beta-lactamase superfamily I
SCE1572_11300	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_10083	94.92	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_11301	hypothetical protein	bi	sce_10084	52.74	FIG01085160: hypothetical protein
SCE1572_11302	TPR domain protein	bi	sce_10085	90.63	TPR domain protein
SCE1572_11303	Response regulator receiver	bi	sce_10086	88.88	Methyl-accepting chemotaxis protein
SCE1572_11304	hypothetical protein	bi	sce_10087	90.89	hypothetical protein
SCE1572_11305	hypothetical protein	-		0	
SCE1572_11306	DsbA oxidoreductase	bi	sce_10088	84.58	DsbA oxidoreductase
SCE1572_11307	histone protein	bi	sce_10089	74.88	hypothetical protein
SCE1572_11308	dienelactone hydrolase	bi	sce_10090	89.84	Hydrolases of the alpha/beta superfamily
SCE1572_11309	Fibroin 1	bi	sce_10091	84.32	Fibroin 1
SCE1572_11310	Tat (twin-arginine translocation) pathway signal sequence domain protein	uni	sce_3293	34.53	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_11311	Cellulose-binding domain protein	uni	sce_3292	42.54	Cellulose-binding domain protein
SCE1572_11312	hypothetical protein	-		0	
SCE1572_11313	Inorganic pyrophosphatase (EC 3.6.1.1)	bi	sce_10092	99.44	Inorganic pyrophosphatase (EC 3.6.1.1)
SCE1572_11314	hypothetical protein	-		0	
SCE1572_11315	Cellulose-binding domain protein	bi	sce_10095	79.2	Cellulose-binding domain protein

SCE1572_11316	Tat (twin-arginine translocation) pathway signal sequence domain protein	bi	sce_10096	82.39	Tat (twin-arginine translocation) pathway signal sequence domain protein
SCE1572_11317	Tat (Twin-arginine translocation) pathway signal sequence domain protein	bi	sce_10097	87.41	Tat (Twin-arginine translocation) pathway signal sequence domain protein
SCE1572_11318	Trans-aconitate 2-methyltransferase (EC 2.1.1.144)	bi	sce_10098	85.47	Trans-aconitate 2-methyltransferase (EC 2.1.1.144)
SCE1572_11319	hypothetical protein	-		0	
SCE1572_11320	hypothetical protein	bi	sce_10100	70.85	hypothetical protein
SCE1572_11321	FIG01086074: hypothetical protein	bi	sce_4678	92.59	FIG01086074: hypothetical protein
SCE1572_11322	tRNA delta(2)-isopentenylpyrophosphate transferase (EC 2.5.1.8)	bi	sce_10101	88.82	tRNA delta(2)-isopentenylpyrophosphate transferase (EC 2.5.1.8)
SCE1572_11323	DNA mismatch repair protein MutL	bi	sce_10102	85.26	DNA mismatch repair protein MutL
SCE1572_11324	hypothetical protein	bi	sce_10103	92.35	hypothetical protein
SCE1572_11325	RNA polymerase sigma factor RpoH	bi	sce_10105	85.27	RNA polymerase sigma factor RpoH
SCE1572_11326	rRNA small subunit methyltransferase I	bi	sce_10106	94.79	rRNA small subunit methyltransferase I
SCE1572_11327	Mannose-1-phosphate guanylyltransferase (GDP) (EC 2.7.7.22)	bi	sce_10107	86.39	Mannose-1-phosphate guanylyltransferase (GDP) (EC 2.7.7.22)
SCE1572_11328	hypothetical protein	-		0	
SCE1572_11329	hypothetical protein	-		0	
SCE1572_11330	NADH ubiquinone oxidoreductase chain A (EC 1.6.5.3)	bi	sce_10110	87.13	NADH ubiquinone oxidoreductase chain A (EC 1.6.5.3)
SCE1572_11331	NADH-ubiquinone oxidoreductase chain B (EC 1.6.5.3)	bi	sce_10111	98.35	NADH-ubiquinone oxidoreductase chain B (EC 1.6.5.3)
SCE1572_11332	NADH-ubiquinone oxidoreductase chain C (EC 1.6.5.3)	bi	sce_10112	90.66	NADH (or F420H2) dehydrogenase, subunit C
SCE1572_11333	NADH-ubiquinone oxidoreductase chain D (EC 1.6.5.3)	bi	sce_10113	96.65	NADH-ubiquinone oxidoreductase chain D (EC 1.6.5.3)
SCE1572_11334	putative PE-PGRS family protein	bi	sce_10114	69	putative PE-PGRS family protein
SCE1572_11335	hypothetical protein	-		0	
SCE1572_11336	hypothetical protein	bi	sce_10135	56	hypothetical protein
SCE1572_11337	O-methyltransferase, family 2	uni	sce_1355	24.41	O-methyltransferase, family 2
SCE1572_11338	hypothetical protein	-		0	
SCE1572_11339	ATPase involved in DNA repair	uni	sce_1995	49.25	serine/threonine protein kinase
SCE1572_11340	Transcriptional regulator, AraC family	bi	sce_10140	85.42	Transcriptional regulator, AraC family
SCE1572_11341	hypothetical protein	-		0	
SCE1572_11342	FIG01088430: hypothetical protein	bi	sce_10141	81.68	FIG01088430: hypothetical protein
SCE1572_11343	Redoxin domain protein	bi	sce_10142	91.71	Redoxin domain protein
SCE1572_11344	Phycocyanin alpha-subunit phycocyanobilin lyase	bi	sce_10143	92.39	hypothetical protein
SCE1572_11345	FIG01088124: hypothetical protein	bi	sce_10144	92.7	FIG01088124: hypothetical protein
SCE1572_11346	Probable aminopeptidase (EC 3.4.11.-)	bi	sce_10145	81.9	Aminopeptidase Y (Arg, Lys, Leu preference) (EC 3.4.11.15)
SCE1572_11347	Butyryl-CoA dehydrogenase (EC 1.3.99.2)	bi	sce_10146	74.1	Butyryl-CoA dehydrogenase (EC 1.3.99.2)
SCE1572_11348	Single-stranded DNA-binding protein	bi	sce_10147	88.44	Single-stranded DNA-binding protein
SCE1572_11349	hypothetical protein	-		0	
SCE1572_11350	hypothetical protein	-		0	
SCE1572_11351	FIG01085109: hypothetical protein	uni	sce_3937	48.13	FIG01085109: hypothetical protein
SCE1572_11352	hypothetical protein	-		0	
SCE1572_11353	hypothetical protein	-		0	
SCE1572_11354	2-dehydropantoate 2-reductase (EC 1.1.1.169) homolog	bi	sce_10188	84.17	2-dehydropantoate 2-reductase (EC 1.1.1.169) homolog
SCE1572_11355	2,4-dienoyl-CoA reductase [NADPH] (EC 1.3.1.34)	uni	sce_6300	40	putative FMN oxidoreductase
SCE1572_11356	Transcriptional regulator, TetR family	bi	sce_10189	79.06	Transcriptional regulator, TetR family
SCE1572_11357	endonuclease/exonuclease/phosphatase family protein	uni	sce_10339	29.93	hypothetical protein
SCE1572_11358	hypothetical protein	uni	sce_1495	58.33	Collagen triple helix repeat
SCE1572_11359	tRNA nucleotidyltransferase, A-adding (EC 2.7.7.25)	uni	sce_3692	56.39	tRNA nucleotidyltransferase, A-adding (EC 2.7.7.25)
SCE1572_11360	PUTATIVE OMEGA-3 FATTY ACID DESATURASE TRANSMEMBRANE PROTEIN	bi	sce_10195	90.99	PUTATIVE OMEGA-3 FATTY ACID DESATURASE TRANSMEMBRANE PROTEIN
SCE1572_11361	Fumarate hydratase class II (EC 4.2.1.2)	bi	sce_10196	92.67	Fumarate hydratase class II (EC 4.2.1.2)
SCE1572_11362	OmpA/MotB	bi	sce_10202	74.32	hypothetical protein
SCE1572_11363	hypothetical protein	bi	sce_10203	90.52	hypothetical protein
SCE1572_11364	RsbR, positive regulator of sigma-B	bi	sce_10204	87.13	Signal transduction histidine kinase CheA (EC 2.7.3.-)
SCE1572_11365	Vitamin K-dependent gamma-carboxylase	uni	sce_10205	78.85	Vitamin K-dependent gamma-carboxylase
SCE1572_11366	N-hydroxyarylamine O-acetyltransferase	uni	sce_5963	48.8	N-hydroxyarylamine O-acetyltransferase (EC 2.3.1.118)
SCE1572_11367	transcriptional regulator, LysR family	uni	sce_9329	38.82	Transcriptional regulator, LysR family
SCE1572_11368	hypothetical protein	-		0	
SCE1572_11369	hypothetical protein	-		0	
SCE1572_11370	Vitamin K-dependent gamma-carboxylase	bi	sce_10205	86.3	Vitamin K-dependent gamma-carboxylase
SCE1572_11371	hypothetical protein	bi	sce_10206	84.27	FIG01088316: hypothetical protein
SCE1572_11372	Uncharacterized oxidoreductase ydgJ (EC 1.-.-.-)	bi	sce_10209	93.31	Uncharacterized oxidoreductase ydgJ (EC 1.-.-.-)
SCE1572_11373	Succinyl-CoA ligase [ADP-forming] alpha chain (EC 6.2.1.5)	bi	sce_10210	97.95	Succinyl-CoA ligase [ADP-forming] alpha chain (EC 6.2.1.5)
SCE1572_11374	Succinyl-CoA ligase [ADP-forming] beta chain (EC 6.2.1.5)	bi	sce_10211	97.96	Succinyl-CoA ligase [ADP-forming] beta chain (EC 6.2.1.5)
SCE1572_11375	hypothetical protein	-		0	
SCE1572_11376	hypothetical protein	bi	sce_10212	88.61	hypothetical protein
SCE1572_11377	ATP phosphoribosyltransferase (EC 2.4.2.17)	bi	sce_10213	95.26	ATP phosphoribosyltransferase (EC 2.4.2.17)
SCE1572_11378	UDP-N-acetylglucosamine 1-carboxyvinyltransferase (EC 2.5.1.7)	bi	sce_10214	98.58	UDP-N-acetylglucosamine 1-carboxyvinyltransferase (EC 2.5.1.7)
SCE1572_11379	OmpA domain protein	bi	sce_10215	89.34	OmpA
SCE1572_11380	ENSANGP00000016745	bi	sce_10216	90.68	ENSANGP00000016745
SCE1572_11381	Quinone oxidoreductase (EC 1.6.5.5)	bi	sce_10217	89.6	Quinone oxidoreductase (EC 1.6.5.5)
SCE1572_11382	serine/threonine protein kinase	bi	sce_10218	94.13	serine/threonine protein kinase
SCE1572_11383	hypothetical protein	-		0	
SCE1572_11384	serine/threonine protein kinase	bi	sce_10219	93.58	serine/threonine protein kinase
SCE1572_11385	Hypothetical protein	bi	sce_10220	98.74	Hypothetical protein
SCE1572_11386	Sulfate transporter family protein	bi	sce_10221	76.95	Sulfate transporter family protein
SCE1572_11387	ABC transporter, periplasmic spermidine putrescine-binding protein PotD (TC 3.A.1.11.1)	bi	sce_10223	72.59	ABC transporter, periplasmic spermidine putrescine-binding protein PotD (TC 3.A.1.11.1)
SCE1572_11388	hypothetical protein	uni	sce_1271	37.18	Ribosomal-protein-L7p-serine acetyltransferase
SCE1572_11389	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins	bi	sce_10228	64.72	TonB-dependent receptor; Outer membrane receptor for ferrienterochelin and colicins
SCE1572_11390	Spermidine Putrescine ABC transporter permease component potC (TC_3.A.1.11.1)	bi	sce_10229	84.42	Spermidine Putrescine ABC transporter permease component potC (TC_3.A.1.11.1)
SCE1572_11391	Spermidine Putrescine ABC transporter permease component PotB (TC 3.A.1.11.1)	bi	sce_10230	91.25	Spermidine Putrescine ABC transporter permease component PotB (TC 3.A.1.11.1)
SCE1572_11392	Putrescine transport ATP-binding protein PotA (TC 3.A.1.11.1)	bi	sce_10231	93.53	Putrescine transport ATP-binding protein PotA (TC 3.A.1.11.1)
SCE1572_11393	Serine/threonine protein kinase (EC 2.7.11.1)	bi	sce_10233	93.2	protein kinase domain
SCE1572_11394	hypothetical protein	bi	sce_10235	99.02	hypothetical protein
SCE1572_11395	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P2 protein) (EC 1.4.4.2)	bi	sce_10237	97.38	Glycine dehydrogenase [decarboxylating] (glycine cleavage system P2 protein) (EC 1.4.4.2)
SCE1572_11396	hypothetical protein	bi	sce_10238	81.48	hypothetical protein
SCE1572_11397	hypothetical protein	-		0	
SCE1572_11398	Gll1450 protein	bi	sce_10239	86.85	Gll1450 protein
SCE1572_11399	Glutamate-1-semialdehyde aminotransferase (EC 5.4.3.8)	bi	sce_10240	94.75	Glutamate-1-semialdehyde aminotransferase (EC 5.4.3.8)
SCE1572_11400	serine/threonine protein kinase	bi	sce_10241	89.29	serine/threonine protein kinase
SCE1572_11401	hypothetical protein	uni	sce_1271	36.21	Ribosomal-protein-L7p-serine acetyltransferase
SCE1572_11402	FIG01086562: hypothetical protein	bi	sce_10242	75.95	FIG01086562: hypothetical protein
SCE1572_11403	hypothetical glutathione S-transferase like protein	uni	sce_7306	34.86	Glutathione S-transferase (EC 2.5.1.18)
SCE1572_11404	hypothetical protein	bi	sce_10243	86.55	FIG01089416: hypothetical protein
SCE1572_11405	FIG01085109: hypothetical protein	uni	sce_3937	57.34	FIG01085109: hypothetical protein
SCE1572_11406	FIG01085109: hypothetical protein	uni	sce_3939	45.12	FIG01085109: hypothetical protein
SCE1572_11407	FIG01085109: hypothetical protein	uni	sce_3937	50.27	FIG01085109: hypothetical protein
SCE1572_11408	FIG01085109: hypothetical protein	-		0	
SCE1572_11409	FIG01085109: hypothetical protein	uni	sce_3937	46.29	FIG01085109: hypothetical protein
SCE1572_11410	hypothetical protein	bi	sce_10267	82.45	hypothetical protein
SCE1572_11411	RsbR, positive regulator of sigma-B	uni	sce_8231	54.41	RsbR, positive regulator of sigma-B
SCE1572_11412	hypothetical protein	bi	sce_10269	76.38	hypothetical protein
SCE1572_11413	5-carboxymethyl-2-hydroxymuconate semialdehyde dehydrogenase (EC 1.2.1.60)	bi	sce_10270	95.2	5-carboxymethyl-2-hydroxymuconate semialdehyde dehydrogenase (EC 1.2.1.60)
SCE1572_11414	hypothetical protein	bi	sce_10271	92.81	hypothetical protein
SCE1572_11415	hypothetical protein	bi	sce_10272	86.36	hypothetical protein
SCE1572_11416	Formate dehydrogenase chain D (EC 1.2.1.2)	bi	sce_10274	85.33	Formate dehydrogenase chain D (EC 1.2.1.2)
SCE1572_11417	hypothetical protein	-		0	
SCE1572_11418	hypothetical protein	uni	sce_1878	43.86	FIG01087871: hypothetical protein
SCE1572_11419	hypothetical protein	-		0	
SCE1572_11420	Putative formate dehydrogenase oxidoreductase protein	bi	sce_10275	92.76	Putative formate dehydrogenase oxidoreductase protein
SCE1572_11421	hypothetical protein(EC:2.6.1.19)	bi	sce_10276	93.16	hypothetical protein(EC:2.6.1.19)
SCE1572_11422	hypothetical protein	bi	sce_10277	91.75	Deacetylases, including yeast histone deacetylase and acetoin utilization protein
SCE1572_11423	FIG00807932: hypothetical protein	uni	sce_529	52.81	hypothetical protein
SCE1572_11424	Mlr5400 protein	bi	sce_10283	74.2	Mlr5400 protein
SCE1572_11425	VgrG protein	uni	sce_3035	47.03	VgrG protein
SCE1572_11426	hypothetical protein	-		0	
SCE1572_11427	YD repeat protein	-		0	
SCE1572_11428	hypothetical protein	-		0	
SCE1572_11429	hypothetical protein	uni	sce_3038	42.54	hypothetical protein
SCE1572_11430	FIG01085200: hypothetical protein	bi	sce_10284	92.06	FIG01085200: hypothetical protein
SCE1572_11431	Oxidoreductase (EC 1.1.1.-)	bi	sce_10285	90.89	Oxidoreductase (EC 1.1.1.-)
SCE1572_11432	serine/threonine protein kinase	bi	sce_10288	91.97	serine/threonine protein kinase
SCE1572_11433	Threonine synthase (EC 4.2.3.1)	bi	sce_10289	96.19	Threonine synthase (EC 4.2.3.1)
SCE1572_11434	sensor histidine kinase	uni	sce_4507	29.39	Probable two-component sensor
SCE1572_11435	Sensor protein	bi	sce_10290	85.81	Sensor protein
SCE1572_11436	hypothetical protein	bi	sce_10291	84.72	hypothetical protein
SCE1572_11437	hypothetical protein	bi	sce_10292	88.32	hypothetical protein
SCE1572_11438	Putative general secretion pathway protein L	bi	sce_10293	93.48	putative general secretion pathway protein L
SCE1572_11439	FIG01085599: hypothetical protein	bi	sce_10294	80.84	FIG01085599: hypothetical protein
SCE1572_11440	General secretion pathway protein J	bi	sce_10295	88.02	General secretion pathway protein J
SCE1572_11441	hypothetical protein	bi	sce_10296	84.82	hypothetical protein
SCE1572_11442	prepilin-type N-terminal cleavage/methylation domain protein	bi	sce_10297	89.08	hypothetical protein
SCE1572_11443	general secretion pathway protein G	bi	sce_10298	74.5	hypothetical protein
SCE1572_11444	FIG01087598: hypothetical protein	bi	sce_10299	96.35	FIG01087598: hypothetical protein
SCE1572_11445	Type IV fimbrial assembly protein PilC	bi	sce_10300	92.16	Type IV fimbrial assembly protein PilC
SCE1572_11446	Type IV fimbrial assembly, ATPase PilB	bi	sce_10301	96.11	Type IV fimbrial assembly, ATPase PilB
SCE1572_11447	General secretion pathway protein D / Type II secretion outermembrane pore forming protein (PulD)	bi	sce_10302	86.71	General secretion pathway protein D / Type II secretion outermembrane pore forming protein (PulD)
SCE1572_11448	hypothetical protein	bi	sce_10303	74.07	hypothetical protein
SCE1572_11449	General secretion pathway protein C	bi	sce_10304	90.83	General secretion pathway protein C
SCE1572_11450	Response regulator of zinc sigma-54-dependent two-component system	bi	sce_10305	98.72	Response regulator of zinc sigma-54-dependent two-component system
SCE1572_11451	Isochorismatase (EC 3.3.2.1)	bi	sce_10306	84.04	Isochorismatase (EC 3.3.2.1)
SCE1572_11452	FIG01088145: hypothetical protein	bi	sce_10307	91.22	FIG01088145: hypothetical protein
SCE1572_11453	Ferredoxin, 2Fe-2S	bi	sce_10308	92.91	Ferredoxin, 2Fe-2S
SCE1572_11454	hypothetical protein	bi	sce_5213	50	FIG01089581: hypothetical protein
SCE1572_11455	LysM domain protein	-		0	
SCE1572_11456	hypothetical protein	-		0	
SCE1572_11457	VgrG protein	uni	sce_5222	55.56	VgrG protein
SCE1572_11458	hypothetical protein	bi	sce_5220	46.08	hypothetical protein
SCE1572_11459	FIG01200031: hypothetical protein	bi	sce_5221	65.35	hypothetical protein
SCE1572_11460	VgrG protein	bi	sce_5222	65.22	VgrG protein
SCE1572_11461	hypothetical protein	-		0	
SCE1572_11462	hypothetical protein	bi	sce_1332	27.75	hypothetical protein
SCE1572_11463	EBNA-1	uni	sce_3993	39.09	Aspartyl-tRNA(Asn) amidotransferase subunit A (EC 6.3.5.6) @ Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.7)
SCE1572_11464	FIG01089285: hypothetical protein	uni	sce_2965	39.96	FIG01089285: hypothetical protein
SCE1572_11465	OmpA domain protein	uni	sce_3999	51.6	Outer membrane protein A-like protein
SCE1572_11466	S-layer-like array protein	uni	sce_3992	48.94	S-layer-like array protein
SCE1572_11467	Probable serine/threonine-protein kinase pknH (EC 2.7.11.1)	uni	sce_3991	48.72	serine/threonine protein kinase
SCE1572_11468	hypothetical protein	bi	sce_10309	78.47	hypothetical protein
SCE1572_11469	Transcriptional regulator, TetR family	bi	sce_10310	87.07	Transcriptional regulator, TetR family
SCE1572_11470	Inositol-1-monophosphatase (EC 3.1.3.25)	bi	sce_10311	87.88	COG0483: Archaeal fructose-1,6-bisphosphatase and related enzymes of inositol monophosphatase family
SCE1572_11471	Lipase/esterase	bi	sce_10312	83.79	Lipase/esterase
SCE1572_11472	Transcriptional regulator, AraC family	uni	sce_7800	34.92	Transcriptional regulator, AraC family
SCE1572_11473	FIG01086239: hypothetical protein	uni	sce_10366	60.49	FIG01086239: hypothetical protein
SCE1572_11474	hypothetical protein	uni	sce_9503	78.06	hypothetical protein
SCE1572_11475	hypothetical protein	uni	sce_10364	73.13	hypothetical protein
SCE1572_11476	hypothetical protein	-		0	
SCE1572_11477	hypothetical protein	uni	sce_9505	91.06	hypothetical protein
SCE1572_11478	FIG01086685: hypothetical protein	bi	sce_10313	78.53	FIG01086685: hypothetical protein
SCE1572_11479	hypothetical protein	bi	sce_10314	48.48	hypothetical protein

SCE1572_11480	Chaperone protein HtpG	bi	sce_10315	93.67	Chaperone protein HtpG
SCE1572_11481	Mll2626 protein	bi	sce_10316	86.05	Mll2626 protein
SCE1572_11482	hypothetical protein	bi	sce_10317	99.3	hypothetical protein
SCE1572_11483	Translation elongation factor P	bi	sce_10318	96.77	Translation elongation factor P
SCE1572_11484	Antifreeze glycopeptide AFGP polyprotein precursor	bi	sce_10319	88.63	Antifreeze glycopeptide AFGP polyprotein precursor
SCE1572_11485	Thrombospondin type 3 repeat family protein/Calx-beta domain protein	bi	sce_10321	75.86	Thrombospondin type 3 repeat family protein/Calx-beta domain protein
SCE1572_11486	Chromate transport protein ChrA	bi	sce_10322	85.75	Chromate transport protein ChrA
SCE1572_11487	hypothetical protein	-		0	
SCE1572_11488	putative transposase	-		0	
SCE1572_11489	hypothetical protein	-		0	
SCE1572_11490	putative IS4 family transposase	bi	sce_299	97.5	Mobile element protein
SCE1572_11491	glycosyltransferase	bi	sce_10323	86.62	glycosyltransferase
SCE1572_11492	Isovaleryl-CoA dehydrogenase (EC 1.3.99.10)	bi	sce_10324	96.58	Isovaleryl-CoA dehydrogenase (EC 1.3.99.10)
SCE1572_11493	Cell division protein FtsK	bi	sce_10326	88.91	Cell division protein FtsK
SCE1572_11494	Cell division protein FtsK	uni	sce_10326	76.64	Cell division protein FtsK
SCE1572_11495	hypothetical protein	-		0	
SCE1572_11496	hypothetical protein	-		0	
SCE1572_11497	hypothetical protein	-		0	
SCE1572_11498	hypothetical protein	-		0	
SCE1572_11499	FIG00840272: hypothetical protein	bi	sce_10332	79.42	FIG01087210: hypothetical protein
SCE1572_11500	FIG01086383: hypothetical protein	bi	sce_10333	80.6	hypothetical protein
SCE1572_11501	hypothetical protein	-		0	
SCE1572_11502	hypothetical protein	bi	sce_10334	80.86	FIG01087636: hypothetical protein
SCE1572_11503	RNA polymerase sigma factor RpoE	bi	sce_10335	76.58	RNA polymerase sigma factor RpoE
SCE1572_11504	hypothetical protein	-		0	
SCE1572_11505	Cytochrome c-type biogenesis protein CcmE, heme chaperone	bi	sce_10337	88.83	Cytochrome c-type biogenesis protein CcmE, heme chaperone
SCE1572_11506	phospholipase D/Transphosphatidylase	bi	sce_10338	85.05	Cardiolipin synthetase (EC 2.7.8.-)
SCE1572_11507	Metal-dependent hydrolase	bi	sce_10339	91.44	hypothetical protein
SCE1572_11508	Flavin reductase (EC 1.5.1.30)	bi	sce_10340	81.73	putative nucleoside-diphosphate-sugar epimerases
SCE1572_11509	Uncharacterized PE-PGRS family protein PE_PGRS54 precursor	bi	sce_10341	77.03	Uncharacterized PE-PGRS family protein PE_PGRS54 precursor
SCE1572_11510	hypothetical protein	bi	sce_10342	54.4	FIG01088359: hypothetical protein
SCE1572_11511	conserved hypothetical protein SCD8A.23	bi	sce_10344	79.48	Invasin
SCE1572_11512	FIG01086728: hypothetical protein	bi	sce_10345	62.33	FIG01086728: hypothetical protein
SCE1572_11513	FIG01085729: hypothetical protein	bi	sce_10346	86.01	FIG01085729: hypothetical protein
SCE1572_11514	Aspartokinase (EC 2.7.2.4)	bi	sce_10347	92.55	Aspartokinase (EC 2.7.2.4)
SCE1572_11515	hydrolase, haloacid dehalogenase-like family	bi	sce_10348	87.31	hydrolase, haloacid dehalogenase-like family
SCE1572_11516	Glycerol-3-phosphate ABC transporter, ATP-binding protein UgpC (TC 3.A.1.1.3)	bi	sce_10349	89.42	Glycerol-3-phosphate ABC transporter, ATP-binding protein UgpC (TC 3.A.1.1.3)
SCE1572_11517	Glycerol-3-phosphate ABC transporter, periplasmic glycerol-3-phosphate-binding protein (TC 3.A.1.1.3)	bi	sce_10350	88.69	Glycerol-3-phosphate ABC transporter, periplasmic glycerol-3-phosphate-binding protein (TC 3.A.1.1.3)
SCE1572_11518	N-Acetyl-D-glucosamine ABC transport system, permease protein 1	bi	sce_10351	94.88	N-Acetyl-D-glucosamine ABC transport system, permease protein 1
SCE1572_11519	Sugar ABC transporter, sugar permease protein 2 USSDB1D	bi	sce_10352	92.01	Sugar ABC transporter, sugar permease protein 2 USSDB1D
SCE1572_11520	hypothetical protein	bi	sce_10353	85.19	hypothetical protein
SCE1572_11521	hypothetical protein	uni	sce_10363	83.33	hypothetical protein
SCE1572_11522	hypothetical protein	-		0	
SCE1572_11523	hypothetical protein	uni	sce_7057	51.65	hypothetical protein
SCE1572_11524	hypothetical protein	bi	sce_7056	46.28	FIG01087585: hypothetical protein
SCE1572_11525	Transcriptional regulator, AraC family	bi	sce_7055	67.3	Transcriptional regulator, AraC family
SCE1572_11526	Transcription-repair coupling factor	uni	sce_10265	87.04	hypothetical protein
SCE1572_11527	FIG01085364: hypothetical protein	uni	sce_8038	51.73	FIG01085364: hypothetical protein
SCE1572_11528	hypothetical protein	uni	sce_5241	50.14	FIG01086664: hypothetical protein
SCE1572_11529	Cytochrome c551 peroxidase (EC 1.11.1.5)	bi	sce_10371	78.66	Cytochrome c551 peroxidase (EC 1.11.1.5)
SCE1572_11530	blr7652; hypothetical protein	bi	sce_10372	68.39	hypothetical protein
SCE1572_11531	FIG01089001: hypothetical protein	bi	sce_10373	75.69	FIG01089001: hypothetical protein
SCE1572_11532	hypothetical protein	-		0	
SCE1572_11533	Transcription regulator [contains diacylglycerol kinase catalytic domain]	bi	sce_10380	80.62	Transcription regulator [contains diacylglycerol kinase catalytic domain]
SCE1572_11534	3';,5';-cyclic-nucleotide phosphodiesterase	bi	sce_10381	88.1	3';,5';-cyclic-nucleotide phosphodiesterase
SCE1572_11535	Xylulose kinase (EC 2.7.1.17)	bi	sce_10384	95.75	Xylulose kinase (EC 2.7.1.17)
SCE1572_11536	Sorbitol dehydrogenase (EC 1.1.1.14)	bi	sce_10385	95.54	Sorbitol dehydrogenase (EC 1.1.1.14)
SCE1572_11537	hypothetical protein	bi	sce_10386	91.57	hypothetical protein
SCE1572_11538	Uncharacterized protein, similar to the N-terminal domain of Lon protease	bi	sce_10387	94.12	Uncharacterized protein, similar to the N-terminal domain of Lon protease
SCE1572_11539	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)	bi	sce_10388	89.47	3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100)
SCE1572_11540	GTP cyclohydrolase I (EC 3.5.4.16) type 1	bi	sce_10389	90.58	GTP cyclohydrolase I (EC 3.5.4.16) type 1
SCE1572_11541	hypothetical protein	bi	sce_10390	89.93	hypothetical protein
SCE1572_11542	Spermidine Putrescine ABC transporter permease component potC (TC_3.A.1.11.1)	bi	sce_10391	95.27	Spermidine Putrescine ABC transporter permease component potC (TC_3.A.1.11.1)
SCE1572_11543	ABC transporter, periplasmic spermidine putrescine-binding protein PotD (TC 3.A.1.11.1)	bi	sce_10392	91.76	ABC transporter, periplasmic spermidine putrescine-binding protein PotD (TC 3.A.1.11.1)
SCE1572_11544	Spermidine Putrescine ABC transporter permease component PotB (TC 3.A.1.11.1)	bi	sce_10393	94.5	Spermidine Putrescine ABC transporter permease component PotB (TC 3.A.1.11.1)
SCE1572_11545	Putrescine transport ATP-binding protein PotA (TC 3.A.1.11.1)	bi	sce_10394	91.97	Putrescine transport ATP-binding protein PotA (TC 3.A.1.11.1)
SCE1572_11546	Shell matrix protein	bi	sce_10396	79.19	Shell matrix protein
SCE1572_11547	Shell matrix protein	uni	sce_10396	74.4	Shell matrix protein
SCE1572_11548	FIG01088065: hypothetical protein	bi	sce_10397	90.67	FIG01088065: hypothetical protein
SCE1572_11549	Molybdopterin biosynthesis protein MoeA	bi	sce_10398	88.41	Molybdopterin biosynthesis protein MoeA
SCE1572_11550	hypothetical protein	uni	sce_6700	34.44	hypothetical protein
SCE1572_11551	hypothetical protein	-		0	
SCE1572_11552	hypothetical protein	-		0	
SCE1572_11553	FIG01089513: hypothetical protein	bi	sce_10402	82.27	FIG01089513: hypothetical protein
SCE1572_11554	General secretion pathway protein C	bi	sce_10403	79.63	General secretion pathway protein C
SCE1572_11555	FIG00840539: hypothetical protein	bi	sce_6028	84.91	FIG00840539: hypothetical protein
SCE1572_11556	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)	-		0	
SCE1572_11557	COG2319: FOG: WD40 repeat	uni	sce_7667	45.42	FIG01085006: hypothetical protein
SCE1572_11558	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)	uni	sce_7667	46.76	FIG01085006: hypothetical protein
SCE1572_11559	kelch domain protein	uni	sce_7667	46.48	FIG01085006: hypothetical protein
SCE1572_11560	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)	uni	sce_7667	48.98	FIG01085006: hypothetical protein
SCE1572_11561	serine/threonine protein kinase	uni	sce_3991	42.88	serine/threonine protein kinase
SCE1572_11562	hypothetical protein	-		0	
SCE1572_11563	hypothetical protein	bi	sce_10404	86.01	von Willebrand factor, type A
SCE1572_11564	hypothetical protein	bi	sce_10405	86.79	hypothetical protein
SCE1572_11565	hypothetical protein	bi	sce_8641	70.45	hypothetical protein
SCE1572_11566	hypothetical protein	uni	sce_7302	51.13	FIG01084927: hypothetical protein
SCE1572_11567	hypothetical protein	-		0	
SCE1572_11568	ATPase involved in chromosome partitioning-like protein	-		0	
SCE1572_11569	hypothetical protein	bi	sce_167	95.65	hypothetical protein
SCE1572_11570	hypothetical protein	-		0	
SCE1572_11571	Transcriptional regulator, TetR family	bi	sce_7925	93.85	Transcriptional regulator, TetR family
SCE1572_11572	Epoxide hydrolase (EC 3.3.2.9)	uni	sce_4089	30.7	Alpha/beta hydrolase fold (EC 3.8.1.5)
SCE1572_11573	Epoxide hydrolase (EC 3.3.2.9)	-		0	
SCE1572_11574	FIG01086246: hypothetical protein	bi	sce_9347	91.96	FIG01086246: hypothetical protein
SCE1572_11575	alcohol dehydrogenase, zinc-containing	bi	sce_10410	86.71	alcohol dehydrogenase, zinc-containing
SCE1572_11576	FIG01087153: hypothetical protein	bi	sce_8743	85.28	FIG01087153: hypothetical protein
SCE1572_11577	FIG01089659: hypothetical protein	bi	sce_10411	88.02	FIG01089659: hypothetical protein
SCE1572_11578	Molybdopterin-guanine dinucleotide biosynthesis protein MobA	bi	sce_10415	83.18	Molybdopterin-guanine dinucleotide biosynthesis protein MobA
SCE1572_11579	Putative outer membrane protein	bi	sce_10416	84.89	Putative outer membrane protein
SCE1572_11580	FIG01086226: hypothetical protein	bi	sce_10417	78.74	FIG01086226: hypothetical protein
SCE1572_11581	serine/threonine protein kinase	bi	sce_10418	89.92	serine/threonine protein kinase
SCE1572_11582	serine/threonine protein kinase	bi	sce_10419	77.63	serine/threonine protein kinase
SCE1572_11583	FIG01086379: hypothetical protein	bi	sce_10447	86.27	FIG01086379: hypothetical protein
SCE1572_11584	Serine/threonine protein kinase (EC 2.7.1.-)	bi	sce_10448	76.41	Serine/threonine protein kinase (EC 2.7.1.-)
SCE1572_11585	hypothetical protein	-		0	
SCE1572_11586	FIG01087469: hypothetical protein	bi	sce_10450	90.7	FIG01087469: hypothetical protein
SCE1572_11587	EBNA-1	uni	sce_7493	35.06	Branched-chain amino acid ABC transporter, amino acid-binding protein (TC 3.A.1.4.1)
SCE1572_11588	Chromosome 17 SCAF15006, whole genome shotgun sequence	bi	sce_10452	80.85	Chromosome 17 SCAF15006, whole genome shotgun sequence
SCE1572_11589	Murein endopeptidase	bi	sce_10454	85.76	penicillin-insensitive murein endopeptidase
SCE1572_11590	adenine specific DNA-methyltransferase	bi	sce_10455	91.67	DNA methyltransferase
SCE1572_11591	hypothetical protein	uni	sce_5620	26.9	Predicted ATPase
SCE1572_11592	hypothetical protein	-		0	
SCE1572_11593	Sua5/YciO/YrdC/YwlC	bi	sce_10456	94.53	Sua5/YciO/YrdC/YwlC
SCE1572_11594	ATP synthase gamma chain (EC 3.6.3.14)	bi	sce_10457	89.85	ATP synthase gamma chain (EC 3.6.3.14)
SCE1572_11595	ATP synthase alpha chain (EC 3.6.3.14)	bi	sce_10458	94.76	ATP synthase alpha chain (EC 3.6.3.14)
SCE1572_11596	ATP synthase delta chain (EC 3.6.3.14)	bi	sce_10459	91.11	ATP synthase delta chain (EC 3.6.3.14)
SCE1572_11597	ATP synthase B chain (EC 3.6.3.14)	bi	sce_10460	79.71	ATP synthase B chain (EC 3.6.3.14)
SCE1572_11598	ATP synthase B chain (EC 3.6.3.14)	bi	sce_10461	97.5	ATP synthase B chain (EC 3.6.3.14)
SCE1572_11599	conserved hypothetical protein	bi	sce_10462	84.36	conserved hypothetical protein
SCE1572_11600	TRNA (Ms[2]io[6]A) -hydroxylase (EC 1.-.-.-)	bi	sce_10463	97.28	TRNA (Ms[2]io[6]A) -hydroxylase (EC 1.-.-.-)
SCE1572_11601	FIG01089661: hypothetical protein	bi	sce_10464	81.09	FIG01089661: hypothetical protein

TableS11 All annotated polysaccharide-degrading enzymes and related CBM motifs in So0157-2

Locus tag	Score	E-value	Subject ID*	Family
SCE1572_6228	60.14	2e-103	YP_001612106.1;CAN91626.1;	GH5
SCE1572_6231	90.2	8e-130	YP_001613915.1;CAN93435.1;	CE1
SCE1572_6232	91.49	3e-172	YP_001613916.1;CAN93436.1;	CE1
SCE1572_6246	41.57	2e-12	CAZ88575.1;	CE4
SCE1572_6247	66.59	1e-139	YP_001611186.1;CAN90706.1;	GT4
SCE1572_6252	41.63	1e-39	AAF26731.1;	CE10
SCE1572_6349	43.72	8e-161	ADI16745.1;	GH52
SCE1572_6351	86.14	5e-147	YP_001615459.1;CAN94979.1;	PL1
SCE1572_6364	44.55	4e-38	YP_002479972.1;ACL49294.1;	GT4
SCE1572_6367	42.48	5e-15	YP_001360086.1;ABS01822.1;	GT2
SCE1572_6382	41.7	4e-30	NP_628653.1;CAB92109.1;	CBM13
SCE1572_6394	40	2e-09	YP_003849847.1;ADL58534.1;	GT2
SCE1572_6418	60.53	7e-143	YP_001039270.1;ABN54077.1;	CE0
SCE1572_6423	68.02	3e-172	YP_001613368.1;CAN92888.1;	CBM2
SCE1572_6423	68.02	3e-172	YP_001613368.1;CAN92888.1;	CE4
SCE1572_6431	57.18	3e-114	YP_003073756.1;ACR12691.1;	CBM10
SCE1572_6431	57.18	3e-114	YP_003073756.1;ACR12691.1;	GH53
SCE1572_6458	44.55	3e-32	YP_003844012.1;ADL52248.1;	GH43
SCE1572_6458	44.55	3e-32	YP_003844012.1;ADL52248.1;	GH51
SCE1572_6461	54.51	6e-89	YP_001612123.1;CAN91643.1;	GH43
SCE1572_6468	88.48	0	YP_001615509.1;CAN95029.1;	GT2
SCE1572_6469	88.4	0	YP_001615510.1;CAN95030.1;	GH26
SCE1572_6485	41.6	2e-16	YP_001360086.1;ABS01822.1;	GT2
SCE1572_6524	78.93	7e-144	YP_001615553.1;CAN95073.1;	GH5
SCE1572_6536	40.06	2e-127	YP_003014630.1;ACT04544.1;	CBM50
SCE1572_6574	44.66	2e-11	YP_003835341.1;ADL45765.1;	GT9
SCE1572_6580	42.68	6e-06	BAA05832.1;	CBM20
SCE1572_6580	42.68	6e-06	BAA05832.1;	CBM34
SCE1572_6580	42.68	6e-06	BAA05832.1;	CBM48
SCE1572_6580	42.68	6e-06	BAA05832.1;	GH13
SCE1572_6587	41.98	5e-07	ACX49739.1;	GH4
SCE1572_6614	80.42	1e-164	YP_001615581.1;CAN95101.1;	CBM0
SCE1572_6614	80.42	1e-164	YP_001615581.1;CAN95101.1;	PL3
SCE1572_6660	40	1e-10	YP_002782993.1;BAH54048.1;	GT4
SCE1572_6664	40	5e-17	YP_001360086.1;ABS01822.1;	GT2
SCE1572_6665	43.48	6e-18	YP_001360086.1;ABS01822.1;	GT2
SCE1572_6688	51.28	0	YP_003270912.1;ACY19019.1;	CBM48
SCE1572_6699	63.12	1e-160	YP_001863952.1;ACC79009.1;	GH1
SCE1572_6701	67.41	0	YP_001613691.1;CAN93211.1;	GH2
SCE1572_6702	71.94	2e-158	YP_002482744.1;ACL44383.1;	GT4
SCE1572_6703	57.77	4e-123	YP_001863951.1;ACC79008.1;	GT4
SCE1572_6715	81.45	0	YP_001615633.1;CAN95153.1;	GH23
SCE1572_6760	40.78	6e-102	YP_003466227.1;CBJ79429.1;	GH24
SCE1572_6763	57.36	9e-179	YP_002131318.1;ACG78889.1;	GH43
SCE1572_6800	42.05	8e-11	NP_628653.1;CAB92109.1;	CBM13
SCE1572_6844	93.86	0	YP_001615734.1;CAN95254.1;	GH13
SCE1572_6881	40.52	9e-08	YP_526867.1;ABD80655.1;	CBM6
SCE1572_6881	40.52	9e-08	YP_526867.1;ABD80655.1;	CBM56
SCE1572_6881	40.52	9e-08	YP_526867.1;ABD80655.1;	GH16
SCE1572_6893	40	9e-30	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_6894	41.04	3e-27	NP_733639.1;CAD55485.1;	CBM13
SCE1572_6912	50.96	9e-49	ACX49739.1;	GH4
SCE1572_6923	45.05	4e-15	YP_001360086.1;ABS01822.1;	GT2
SCE1572_6942	77.14	0	YP_001612153.1;CAN91673.1;	CBM3
SCE1572_6949	62.66	4e-138	BAE86850.1;	GH8
SCE1572_6952	67.58	6e-66	NP_823285.1;BAC69820.1;	CBM13
SCE1572_6952	67.58	6e-66	NP_823285.1;BAC69820.1;	GH43
SCE1572_6974	40	1e-33	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_6980	86.42	3e-123	YP_001615812.1;CAN95332.1;	CE12
SCE1572_6981	53.75	3e-46	YP_002506838.1;ACL76858.1;	CBM13
SCE1572_7001	40.13	2e-44	YP_203062.1;YP_453195.1;AAW77677.1	GH3
SCE1572_7019	44.7	5e-06	YP_003911717.1;ADN74643.1;	CBM13
SCE1572_7044	95	2e-125	YP_001619514.1;CAN99034.1;	CE3
SCE1572_7045	40.99	1e-34	YP_003765393.1;ADJ44991.1;	CBM2
SCE1572_7063	42.22	1e-06	YP_002896761.1;ZP_04886356.1;EDU07	CE3
SCE1572_7072	46.11	2e-77	YP_003485873.1;CBG67294.1;	CBM13
SCE1572_7178	82.62	0	YP_001612594.1;CAN92114.1;	CBM6
SCE1572_7178	82.62	0	YP_001612594.1;CAN92114.1;	GH43
SCE1572_7223	82.13	0	YP_001615952.1;CAN95472.1;	GH9
SCE1572_7229	41.92	2e-29	YP_001106030.1;ZP_06565633.1;CAM03	CBM6
SCE1572_7241	40.45	9e-07	YP_003765392.1;ADJ44990.1;	CBM2
SCE1572_7267	42.28	4e-06	YP_003911717.1;ADN74643.1;	CBM13
SCE1572_7270	40.48	2e-09	EEC68331.1;	CBM50
SCE1572_7299	40.28	3e-06	NP_810096.1;AAO76290.1;	GT2
SCE1572_7305	90	8e-145	YP_001612881.1;CAN92401.1;	GH16
SCE1572_7325	91.15	0	YP_001616104.1;CAN95624.1;	GT4
SCE1572_7338	40.27	3e-07	AAF71700.1;	CE10
SCE1572_7360	41.95	2e-43	YP_715463.1;CAJ63931.1;	CBM13

SCE1572_7384	81.01	1e-168	YP_001612827.1;CAN92347.1;	GH10
SCE1572_7403	66.49	2e-144	YP_001616149.1;CAN95669.1;	GH8
SCE1572_7427	52.2	0	YP_003270912.1;ACY19019.1;	CBM48
SCE1572_7431	42.67	8e-45	YP_003955230.1;ADO73403.1;	CE4
SCE1572_7473	40.62	6e-07	YP_003838689.1;ADL49113.1;	CBM2
SCE1572_7484	46.07	9e-65	XP_003080455.1;CAL54622.1;	GH2
SCE1572_7490	50	6e-06	YP_002930693.1;ACR72246.1;	PL1
SCE1572_7490	50	6e-06	YP_002930693.1;ACR72246.1;	PL9
SCE1572_7493	95.19	0	YP_001616079.1;CAN95599.1;	CE15
SCE1572_7538	92.22	0	YP_001616363.1;CAN95883.1;	GH5
SCE1572_7540	79.49	0	YP_001616365.1;CAN95885.1;	CE2
SCE1572_7552	88.25	2e-145	YP_001616370.1;CAN95890.1;	GT4
SCE1572_7559	56.99	4e-158	NP_051574.1;AAF12585.1;	CE10
SCE1572_7628	91.3	2e-172	YP_001616437.1;CAN95957.1;	GT2
SCE1572_7649	58.26	3e-164	YP_001980577.1;ACE86114.1;	PL1
SCE1572_7651	70.47	3e-150	YP_001982505.1;ACE84005.1;	PL10
SCE1572_7652	77.61	0	YP_003003776.1;ACT06297.1;	GH43
SCE1572_7673	45.45	3e-09	YP_001981082.1;ACE84184.1;	CBM35
SCE1572_7674	42.19	1e-22	YP_001981082.1;ACE84184.1;	CBM35
SCE1572_7702	76.77	0	YP_001616475.1;CAN95995.1;	PL1
SCE1572_7840	40.19	1e-07	ADD17064.1;	CBM5
SCE1572_7840	40.19	1e-07	ADD17064.1;	GH5
SCE1572_7896	46.43	6e-14	CAN61133.1;	GH36
SCE1572_7912	64	3e-119	YP_003250632.1;ACX76150.1;ADL2603	CBM35
SCE1572_7912	64	3e-119	YP_003250632.1;ACX76150.1;ADL2603	PL1
SCE1572_7916	86.37	0	YP_001616651.1;CAN96171.1;	GH5
SCE1572_7932	45.31	6e-07	YP_003151067.1;ACU94385.1;	CE9
SCE1572_7940	45.59	5e-07	Q9LAP7.1;AAF26838.1;	CBM6
SCE1572_7940	45.59	5e-07	Q9LAP7.1;AAF26838.1;	GH96
SCE1572_7952	51.74	4e-105	CBA03971.1;	GT30
SCE1572_7993	78.66	0	YP_001616718.1;CAN96238.1;	GH18
SCE1572_8101	55.38	0	YP_526034.1;ABD79822.1;	GH9
SCE1572_8103	40	3e-27	YP_003267712.1;ACY15819.1;	CBM2
SCE1572_8165	80.85	3e-15	YP_001616872.1;CAN96392.1;	GH43
SCE1572_8228	87.47	0	YP_001616802.1;CAN96322.1;	GH23
SCE1572_8260	40.62	4e-07	YP_002126278.1;ACG66284.1;	CBM50
SCE1572_8260	40.62	4e-07	YP_002126278.1;ACG66284.1;	GH23
SCE1572_8321	40	2e-26	YP_003767779.1;ADJ47377.1;	CBM2
SCE1572_8401	44.26	9e-06	YP_003676076.1;ADH60065.1;	CE9
SCE1572_8430	43.17	4e-89	CAN65674.1;	GH28
SCE1572_8434	41.06	2e-16	YP_003766420.1;ADJ46018.1;	CBM2
SCE1572_8448	53.99	0	YP_003270912.1;ACY19019.1;	CBM48
SCE1572_8471	97.17	0	YP_001617109.1;CAN96629.1;	GH94
SCE1572_8489	42.11	6e-14	YP_604980.1;ABF45811.1;	CBM50
SCE1572_8496	41.18	3e-08	NP_628976.1;CAB97423.1;	GH23
SCE1572_8497	50.55	1e-142	ADI12317.1;	CBM2
SCE1572_8497	50.55	1e-142	ADI12317.1;	GH44
SCE1572_8499	42.96	4e-20	NP_733639.1;CAD55485.1;	CBM13
SCE1572_8546	74.03	2e-164	YP_002482744.1;ACL44383.1;	GT4
SCE1572_8545	73.3	0	YP_001613694.1;CAN93214.1;	GH1
SCE1572_8547	71.39	1e-147	YP_001613692.1;CAN93212.1;	GT4
SCE1572_8548	74.96	0	YP_001613691.1;CAN93211.1;	GH2
SCE1572_8602	43.6	4e-28	YP_001132770.1;ABP43982.1;	GT4
SCE1572_8648	42.47	6e-10	YP_002942693.1;ACS17427.1;	GT2
SCE1572_8648	42.47	6e-10	YP_002942693.1;ACS17427.1;	GT4
SCE1572_8650	87.93	2e-169	YP_001617232.1;CAN96752.1;	GT4
SCE1572_8669	45.76	2e-103	YP_615806.1;ABF52473.1;	GH43
SCE1572_8715	41	9e-36	YP_002479972.1;ACL49294.1;	GT4
SCE1572_8724	40.48	5e-59	YP_003630753.1;ADG68554.1;	CE1
SCE1572_8748	82.18	0	YP_001617409.1;CAN96929.1;	GT4
SCE1572_8760	78.4	0	YP_001612470.1;CAN91990.1;	GH30
SCE1572_8762	41.42	3e-25	YP_003766420.1;ADJ46018.1;	CBM2
SCE1572_8782	57.97	2e-113	YP_002538685.1;ACM21584.1;	GH0
SCE1572_8784	83.55	2e-160	YP_001617423.1;CAN96943.1;	GT4
SCE1572_8785	88.71	0	YP_001617424.1;CAN96944.1;	GT0
SCE1572_8786	70.45	1e-128	YP_002296781.1;ACI97968.1;	GT0
SCE1572_8787	40.91	4e-06	YP_002786856.1;ACO47102.1;	GT4
SCE1572_8834	51.54	0	YP_003270912.1;ACY19019.1;	CBM48
SCE1572_8842	44.35	1e-18	YP_001360086.1;ABS01822.1;	GT2
SCE1572_8845	88.83	3e-171	YP_001617439.1;CAN96959.1;	GT4
SCE1572_8848	90.82	9e-160	YP_001617441.1;CAN96961.1;	GH0
SCE1572_8886	40.22	1e-36	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_8890	69.48	6e-144	YP_001616194.1;CAN95714.1;	CBM2
SCE1572_8890	69.48	6e-144	YP_001616194.1;CAN95714.1;	GH11
SCE1572_8891	79.59	2e-96	YP_001616194.1;CAN95714.1;	CBM2
SCE1572_8891	79.59	2e-96	YP_001616194.1;CAN95714.1;	GH11
SCE1572_8894	81.15	0	YP_001617496.1;CAN97016.1;	GH13
SCE1572_8920	47.81	2e-138	YP_003100976.1;ACU37130.1;	CBM2
SCE1572_8954	43.38	8e-31	YP_003765392.1;ADJ44990.1;	CBM2
SCE1572_8958	87.24	0	YP_001617546.1;CAN97066.1;	GH3

SCE1572_9027	42.44	1e-30	YP_003767779.1;ADJ47377.1;	CBM2
SCE1572_9037	41.07	8e-12	YP_001360086.1;ABS01822.1;	GT2
SCE1572_9046	48.91	2e-99	YP_001547794.1;ABX07666.1;	PL9
SCE1572_9056	42.42	2e-61	YP_821916.1;ABJ81631.1;	CBM47
SCE1572_9064	41.18	7e-59	YP_821916.1;ABJ81631.1;	CBM47
SCE1572_9066	66.52	3e-177	YP_632978.1;ABF93028.1;	CBM61
SCE1572_9066	66.52	3e-177	YP_632978.1;ABF93028.1;	GH16
SCE1572_9069	89.89	6e-131	YP_001617638.1;CAN97158.1;	GT2
SCE1572_9075	49.77	0	YP_003270912.1;ACY19019.1;	CBM48
SCE1572_6116	43.09	8e-38	YP_003074845.1;ACR11863.1;	CBM57
SCE1572_6116	43.09	8e-38	YP_003074845.1;ACR11863.1;	CE15
SCE1572_9119	47.15	4e-41	CAB45032.1;	CBM35
SCE1572_9157	81.08	0	YP_001617752.1;CAN97272.1;	GH81
SCE1572_9189	49.73	6e-91	YP_003747345.1;CBJ52922.1;	CE8
SCE1572_9200	68.52	2e-14	YP_001617792.1;CAN97311.1;	GH0
SCE1572_9251	89.01	0	YP_001617819.1;CAN97339.1;	CBM48
SCE1572_9251	89.01	0	YP_001617819.1;CAN97339.1;	GH13
SCE1572_9305	43.87	1e-41	YP_002479972.1;ACL49294.1;	GT4
SCE1572_9374	42.24	2e-11	YP_003643224.1;ADG30894.1;	CE4
SCE1572_9412	84.29	0	YP_001617970.1;CAN97490.1;	GT4
SCE1572_9413	79.92	0	YP_001617971.1;CAN97491.1;	PL0
SCE1572_9439	93.33	6e-117	YP_001618001.1;CAN97521.1;	GT2
SCE1572_9478	92.52	3e-169	YP_001618034.1;CAN97554.1;	GT2
SCE1572_9497	40.38	1e-24	NP_103730.1;BAB49516.1;	GH23
SCE1572_9503	47.56	2e-17	CAN61133.1;	GH36
SCE1572_9517	92.12	0	YP_001618071.1;CAN97591.1;	GH0
SCE1572_9534	42.03	1e-21	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_9601	64.11	0	YP_003266510.1;ACY14617.1;	GH3
SCE1572_9602	56.95	1e-64	YP_001617670.1;CAN97190.1;	CE3
SCE1572_9643	41.9	1e-09	ACN62172.1;	CBM5
SCE1572_9643	41.9	1e-09	ACN62172.1;	GH5
SCE1572_9669	41.32	2e-17	YP_001360086.1;ABS01822.1;	GT2
SCE1572_9685	46.02	3e-16	AAC98688.2;	GH33
SCE1572_9708	92.35	0	YP_001618257.1;CAN97777.1;	GH35
SCE1572_9715	41.18	4e-09	YP_822037.1;ABJ81752.1;	GH0
SCE1572_9719	42.42	1e-06	NP_440565.1;BAA17245.1;	GT51
SCE1572_9778	94.18	0	YP_001618312.1;CAN97832.1;	GH1
SCE1572_9788	51.24	3e-66	YP_001615903.1;CAN95423.1;	CBM2
SCE1572_9807	40.48	2e-10	CAN61133.1;	GH36
SCE1572_9813	42.5	1e-06	YP_003849847.1;ADL58534.1;	GT2
SCE1572_9836	93.24	2e-175	YP_001618385.1;CAN97905.1;	CE1
SCE1572_8890	64.82	4e-64	ABL11222.1;	GH11
SCE1572_9885	40.65	3e-12	YP_001360086.1;ABS01822.1;	GT2
SCE1572_9890	80.76	0	YP_001618429.1;CAN97949.1;	GH13
SCE1572_9903	40.34	1e-07	YP_002890225.1;ACR01848.1;	GT2
SCE1572_9959	44.57	5e-07	NP_628976.1;CAB97423.1;	GH23
SCE1572_9964	40.28	9e-06	YP_001536176.1;ABV97185.1;	CBM13
SCE1572_9980	47.27	5e-06	YP_001363592.1;ABS05328.1;	GT4
SCE1572_9981	93.18	0	YP_001618494.1;CAN98014.1;	GT2
SCE1572_9984	71.06	2e-167	YP_001618500.1;CAN98020.1;	GH62
SCE1572_9993	81.57	9e-150	ABC94557.1;	GH10
SCE1572_9994	65.29	4e-122	YP_002505570.1;ACL75590.1;	CBM6
SCE1572_9994	65.29	4e-122	YP_002505570.1;ACL75590.1;	GH62
SCE1572_10038	45.21	1e-07	YP_002431094.1;ACL03626.1;	CBM50
SCE1572_10038	45.21	1e-07	YP_002431094.1;ACL03626.1;	GH23
SCE1572_10056	44.16	5e-07	YP_003148898.1;ACV06133.1;	GT2
SCE1572_10089	47.62	3e-06	YP_002782993.1;BAH54048.1;	GT4
SCE1572_10099	41.67	3e-35	YP_002479972.1;ACL49294.1;	GT4
SCE1572_10199	91.3	0	YP_001618700.1;CAN98220.1;	GH15
SCE1572_10205	49.18	6e-24	YP_001981082.1;ACE84184.1;	CBM35
SCE1572_10294	93.27	0	YP_001619258.1;CAN98778.1;	GT2
SCE1572_10344	65.55	6e-177	YP_001618727.1;CAN98247.1;	GH6
SCE1572_10393	89.68	0	YP_001613332.1;CAN92852.1;	GH43
SCE1572_10400	41.76	3e-08	YP_001818156.1;ACB74556.1;	GH55
SCE1572_10442	82.7	0	YP_001618771.1;CAN98291.1;	GH65
SCE1572_10447	44.44	7e-15	YP_001360086.1;ABS01822.1;	GT2
SCE1572_10471	40.54	4e-11	YP_001360086.1;ABS01822.1;	GT2
SCE1572_10516	42.24	2e-11	YP_003266604.1;ACY14711.1;	CBM50
SCE1572_10516	42.24	2e-11	YP_003266604.1;ACY14711.1;	GH46
SCE1572_10621	41	1e-93	ACX49739.1;	GH4
SCE1572_10623	42.61	3e-103	ACX49739.1;	GH4
SCE1572_10730	90.33	2e-125	YP_001619056.1;CAN98576.1;	CE4
SCE1572_10744	54.21	1e-93	YP_001615235.1;CAN94755.1;	CBM13
SCE1572_10744	54.21	1e-93	YP_001615235.1;CAN94755.1;	GH62
SCE1572_10752	75.77	6e-123	YP_001615240.1;CAN94760.1;	GH16
SCE1572_10767	85.33	4e-162	YP_001619622.1;CAN99142.1;	GT1
SCE1572_10777	87.99	4e-162	YP_001618732.1;CAN98252.1;	GH5
SCE1572_10805	77.81	4e-149	YP_001614648.1;CAN94168.1;	CBM12
SCE1572_10805	77.81	4e-149	YP_001614648.1;CAN94168.1;	GH18
SCE1572_10806	54	5e-06	YP_736718.1;ABI41661.1;	CE1

SCE1572_10845	65.13	5e-94	YP_002505576.1;ACL75596.1;	CBM6
SCE1572_10845	65.13	5e-94	YP_002505576.1;ACL75596.1;	CE6
SCE1572_10845	65.13	5e-94	YP_002505576.1;ACL75596.1;	GH62
SCE1572_10857	76.52	4e-169	ABC94557.1;	GH10
SCE1572_10871	40	9e-13	YP_001536176.1;ABV97185.1;	CBM13
SCE1572_10886	86.39	1e-159	YP_001619166.1;CAN98686.1;	CBM2
SCE1572_10892	43.37	4e-11	P23253.1;AAA30255.1;	GH33
SCE1572_10894	42.34	3e-12	YP_003274139.1;ACY22246.1;	GT87
SCE1572_10908	75.47	1e-135	YP_001619191.1;CAN98711.1;	CBM9
SCE1572_10955	84.78	0	YP_001619209.1;CAN98729.1;	GH3
SCE1572_10963	42.27	7e-12	YP_001278382.1;ABQ92432.1;	GT2
SCE1572_10970	40	3e-33	ACX42259.1;	CBM12
SCE1572_10982	58.3	6e-76	YP_003265049.1;ACY13156.1;	GT2
SCE1572_11024	40	1e-06	YP_003583586.1;ADF51390.1;	GT2
SCE1572_11115	62.01	1e-130	YP_001615581.1;CAN95101.1;	CBM0
SCE1572_11115	62.01	1e-130	YP_001615581.1;CAN95101.1;	PL3
SCE1572_11134	82.87	4e-148	YP_001618138.1;CAN97658.1;	GH114
SCE1572_11191	43.47	3e-99	CAN80640.1;	GT47
SCE1572_11206	41.83	6e-33	NP_628653.1;CAB92109.1;	CBM13
SCE1572_11209	89.37	0	YP_001619570.1;CAN99090.1;	GT4
SCE1572_11215	49.89	0	YP_003270912.1;ACY19019.1;	CBM48
SCE1572_11230	88.99	4e-121	YP_001614645.1;CAN94165.1;	GH11
SCE1572_11235	54.85	4e-103	YP_002538685.1;ACM21584.1;	GH0
SCE1572_11237	88.1	1e-176	YP_001619589.1;CAN99109.1;	GT4
SCE1572_11238	85.96	1e-180	YP_001619590.1;CAN99110.1;	GT0
SCE1572_11242	91.99	0	YP_001611539.1;CAN91059.1;	GH5
SCE1572_11262	86.8	0	YP_001619650.1;CAN99170.1;	GT4
SCE1572_11274	43.55	5e-06	YP_730767.1;ABI45390.1;	GT51
SCE1572_11281	40	2e-06	YP_001640271.1;ABY31200.1;	GT41
SCE1572_11311	42.62	2e-167	YP_003267712.1;ACY15819.1;	CBM2
SCE1572_11351	46.15	8e-08	YP_001536176.1;ABV97185.1;	CBM13
SCE1572_11393	49.4	1e-10	YP_003765392.1;ADJ44990.1;	CBM2
SCE1572_11465	40.31	2e-10	A1IGV8.1;BAF44076.1;	CBM6
SCE1572_11465	40.31	2e-10	A1IGV8.1;BAF44076.1;	GH96
SCE1572_11471	46.64	5e-35	NP_250788.1;YP_002440812.1;AAG0548	CE10
SCE1572_11491	86.62	0	YP_001619891.1;CAN99411.1;	GT21
SCE1572_11503	45.98	2e-06	AAA21932.1;	GH33
SCE1572_11559	45.21	9e-07	YP_108308.1;CAH35705.1;	CE3
SCE1572_11581	40.55	1e-30	YP_001106030.1;ZP_06565633.1;CAM03	CBM6
SCE1572_11582	41.74	3e-28	YP_003765392.1;ADJ44990.1;	CBM2
SCE1572_13	86.3	0	YP_001610649.1;CAN90169.1;	GT83
SCE1572_22	40	4e-08	EEC68331.1;	CBM50
SCE1572_39	89.31	0	YP_001610675.1;CAN90195.1;	GT51
SCE1572_66	86.85	0	YP_001610690.1;CAN90210.1;	GT89
SCE1572_68	43.43	2e-06	YP_003911717.1;ADN74643.1;	CBM13
SCE1572_78	70.39	2e-59	YP_001610700.1;CAN90220.1;	CBM3
SCE1572_90	40.16	6e-12	YP_526867.1;ABD80655.1;	CBM6
SCE1572_90	40.16	6e-12	YP_526867.1;ABD80655.1;	CBM56
SCE1572_90	40.16	6e-12	YP_526867.1;ABD80655.1;	GH16
SCE1572_133	43.93	5e-12	YP_526867.1;ABD80655.1;	CBM6
SCE1572_133	43.93	5e-12	YP_526867.1;ABD80655.1;	CBM56
SCE1572_133	43.93	5e-12	YP_526867.1;ABD80655.1;	GH16
SCE1572_135	75.63	4e-134	YP_001619579.1;CAN99099.1;	CE1
SCE1572_159	41.11	2e-11	NP_628653.1;CAB92109.1;	CBM13
SCE1572_182	40.83	1e-22	ADI10340.1;	CBM35
SCE1572_183	85.14	0	YP_001619183.1;CAN98703.1;	CBM32
SCE1572_185	67.66	9e-109	YP_001617670.1;CAN97190.1;	CE3
SCE1572_301	40.13	3e-16	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_330	46.55	6e-07	ADD62001.1;	GH3
SCE1572_342	43.96	1e-42	YP_001087934.1;CAJ68298.1;	GH18
SCE1572_346	84.68	0	YP_001613859.1;CAN93379.1;	GH8
SCE1572_348	50.93	3e-81	YP_001614884.1;CAN94404.1;	GT4
SCE1572_349	41.26	5e-35	YP_001619570.1;CAN99090.1;	GT4
SCE1572_350	82.09	0	YP_001619609.1;CAN99129.1;	GT4
SCE1572_409	82.21	3e-145	YP_001615664.1;CAN95184.1;	CE1
SCE1572_411	42.61	7e-15	YP_001360086.1;ABS01822.1;	GT2
SCE1572_413	86.23	0	YP_001610845.1;CAN90365.1;	CBM0
SCE1572_417	41.75	1e-09	ADO77294.1;	CBM32
SCE1572_530	88.99	0	YP_001610936.1;CAN90456.1;	CBM50
SCE1572_567	91.22	0	YP_001610968.1;CAN90488.1;	GT51
SCE1572_586	86.75	0	YP_001610988.1;CAN90508.1;	GH77
SCE1572_592	45.73	1e-46	YP_825958.1;ABJ85673.1;	GT4
SCE1572_601	93.18	0	YP_001610998.1;CAN90518.1;	GH13
SCE1572_671	41.61	1e-45	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_681	90.68	7e-100	YP_001611064.1;CAN90584.1;	GT2
SCE1572_686	42.27	1e-10	YP_003765392.1;ADJ44990.1;	CBM2
SCE1572_726	42.15	2e-08	AAA21932.1;	GH33
SCE1572_728	40.08	1e-31	YP_001106030.1;ZP_06565633.1;CAM03	CBM6
SCE1572_746	86.83	0	YP_001611125.1;CAN90645.1;	GT20
SCE1572_762	83.37	0	YP_001610719.1;CAN90240.1;	GH31

SCE1572_841	79.45	0	YP_001615547.1;CAN95067.1;	PL1
SCE1572_909	42.37	6e-20	YP_001360086.1;ABS01822.1;	GT2
SCE1572_966	58	0	YP_635253.1;ABF90989.1;	GH15
SCE1572_983	92.51	0	YP_001611298.1;CAN90818.1;	GH5
SCE1572_999	42.5	3e-06	ACN30267.1;	CBM32
SCE1572_1000	41.77	9e-07	YP_001222417.1;CAN01726.1;	CBM22
SCE1572_1000	41.77	9e-07	YP_001222417.1;CAN01726.1;	GH10
SCE1572_1003	78.42	5e-174	YP_001611310.1;CAN90830.1;	CE13
SCE1572_1015	40.23	1e-28	YP_003838689.1;ADL49113.1;	CBM2
SCE1572_1064	40.74	4e-06	YP_003849847.1;ADL58534.1;	GT2
SCE1572_1085	41.56	3e-07	BAA05832.1;	CBM20
SCE1572_1085	41.56	3e-07	BAA05832.1;	CBM34
SCE1572_1085	41.56	3e-07	BAA05832.1;	CBM48
SCE1572_1085	41.56	3e-07	BAA05832.1;	GH13
SCE1572_1091	86.01	4e-158	ABC94557.1;	GH10
SCE1572_1098	40.1	1e-26	YP_003101875.1;ACU38029.1;	CBM2
SCE1572_1184	52.03	0	YP_003270912.1;ACY19019.1;	CBM48
SCE1572_1190	83.03	0	YP_001611633.1;CAN91153.1;	GH67
SCE1572_1207	44.92	3e-13	YP_001360086.1;ABS01822.1;	GT2
SCE1572_1221	40.83	4e-13	YP_003954374.1;ADO72547.1;	CBM12
SCE1572_1221	40.83	4e-13	YP_003954374.1;ADO72547.1;	GH18
SCE1572_1227	46.85	7e-21	YP_003408615.1;ADB74244.1;	GT2
SCE1572_1229	40.12	1e-19	YP_003838689.1;ADL49113.1;	CBM2
SCE1572_1236	80.27	0	YP_001611434.1;CAN90954.1;	PL9
SCE1572_1238	42.86	8e-18	YP_001360086.1;ABS01822.1;	GT2
SCE1572_1256	44.34	2e-63	ZP_01464504.1;YP_003955390.1;EAU64	CBM13
SCE1572_1260	94.88	0	YP_001612161.1;CAN91681.1;	GH0
SCE1572_1275	41.25	7e-06	YP_003408615.1;ADB74244.1;	GT2
SCE1572_1281	47.41	5e-20	YP_001360086.1;ABS01822.1;	GT2
SCE1572_1324	46.38	1e-07	YP_003588908.1;ADG05764.1;	CBM50
SCE1572_1345	94.39	0	YP_001611499.1;CAN91019.1;	GT2
SCE1572_1365	44.21	4e-48	YP_128593.1;CAG18791.1;	GT2
SCE1572_1371	92.65	0	YP_001611525.1;CAN91045.1;	GT4
SCE1572_1385	79.05	7e-145	YP_001616374.1;CAN95894.1;	GH12
SCE1572_1387	86.98	0	YP_001619605.1;CAN99125.1;	CBM2
SCE1572_1395	41.89	6e-07	YP_736718.1;ABI41661.1;	CE1
SCE1572_1406	42.05	1e-105	YP_003466227.1;CBJ79429.1;	GH24
SCE1572_1421	43.38	1e-13	NP_733639.1;CAD55485.1;	CBM13
SCE1572_1422	46.08	9e-16	ADI07346.1;	CBM13
SCE1572_1443	89.85	0	YP_001611603.1;CAN91123.1;	GH30
SCE1572_1476	40.26	3e-06	YP_003846893.1;ADL55129.1;	GT41
SCE1572_1478	43.98	7e-48	YP_003250378.1;ACX75896.1;ADL2714	GT2
SCE1572_1508	70.16	1e-44	YP_001617342.1;CAN96862.1;	GH10
SCE1572_1525	40.21	2e-29	YP_003101875.1;ACU38029.1;	CBM2
SCE1572_1540	86.94	0	YP_001611582.1;CAN91102.1;	GH23
SCE1572_1573	84.52	0	YP_001611639.1;CAN91159.1;	GH105
SCE1572_1574	48.39	1e-46	YP_002479972.1;ACL49294.1;	GT4
SCE1572_1606	45.19	6e-105	YP_003267712.1;ACY15819.1;	CBM2
SCE1572_1609	85.08	0	YP_001611662.1;CAN91182.1;	GT4
SCE1572_1612	76.29	9e-130	YP_001611664.1;CAN91184.1;	GT0
SCE1572_1614	90.48	0	YP_001611665.1;CAN91185.1;	GT4
SCE1572_1616	91.03	2e-180	YP_001611667.1;CAN91187.1;	GT4
SCE1572_1617	81.02	3e-159	YP_001611668.1;CAN91188.1;	GT4
SCE1572_1656	41.35	8e-06	YP_003274139.1;ACY22246.1;	GT87
SCE1572_1673	92.62	0	YP_001611700.1;CAN91220.1;	GT5
SCE1572_1694	40.48	1e-10	YP_003324485.1;ACZ43662.1;	CBM57
SCE1572_1720	52.63	9e-14	YP_002928937.1;ACR62057.1;	GH2
SCE1572_1767	89.14	3e-158	AAK19891.1;	CBM13
SCE1572_1771	51.91	3e-89	NP_870096.1;CAD79251.1;	CE1
SCE1572_1884	41.33	8e-19	YP_003765392.1;ADJ44990.1;	CBM2
SCE1572_1893	46.75	1e-30	YP_830004.1;ABK01904.1;	GH3
SCE1572_1907	96.37	0	YP_001611914.1;CAN91434.1;	GH113
SCE1572_1922	85.75	3e-167	YP_001611938.1;CAN91458.1;	GT4
SCE1572_1923	84.11	1e-61	YP_001611939.1;CAN91459.1;	GT4
SCE1572_1926	93.65	0	YP_001611941.1;CAN91461.1;	CBM48
SCE1572_1926	93.65	0	YP_001611941.1;CAN91461.1;	GH13
SCE1572_1965	47.17	2e-06	YP_191885.1;AAW61229.1;	CE1
SCE1572_1994	42.6	5e-136	ZP_01460104.1;YP_003955802.1;EAU69	CBM56
SCE1572_2002	59.52	2e-86	ZP_01461172.1;YP_003953282.1;EAU68	CBM32
SCE1572_2011	40.48	2e-06	CAD48195.1;	GH68
SCE1572_2020	41.74	3e-18	NP_810096.1;AAO76290.1;	GT2
SCE1572_2022	77.99	0	YP_001613943.1;CAN93463.1;	CBM6
SCE1572_2022	77.99	0	YP_001613943.1;CAN93463.1;	GH43
SCE1572_2023	85.45	9e-144	YP_001615249.1;CAN94769.1;	CE1
SCE1572_2089	52.11	4e-33	YP_001616194.1;CAN95714.1;	CBM2
SCE1572_2089	52.11	4e-33	YP_001616194.1;CAN95714.1;	GH11
SCE1572_2105	52.27	1e-06	YP_961238.1;ABM30050.1;	GT2
SCE1572_2114	73.84	8e-164	YP_001612106.1;CAN91626.1;	GH5
SCE1572_2128	82.69	5e-155	YP_001612123.1;CAN91643.1;	GH43
SCE1572_2132	86.84	5e-117	YP_001612127.1;CAN91647.1;	CE12

SCE1572_2133	50.13	0	YP_003652627.1;ADG88734.1;	CBM2
SCE1572_2133	50.13	0	YP_003652627.1;ADG88734.1;	PL11
SCE1572_2146	88.24	5e-95	YP_001611385.1;CAN90905.1;	CBM13
SCE1572_2146	88.24	5e-95	YP_001611385.1;CAN90905.1;	CE1
SCE1572_2148	89.43	0	YP_001611385.1;CAN90905.1;	CBM13
SCE1572_2148	89.43	0	YP_001611385.1;CAN90905.1;	CE1
SCE1572_2151	88.76	4e-154	YP_001612186.1;CAN91706.1;	GT2
SCE1572_2166	40.71	3e-21	YP_003585679.1;ADF53483.1;	CBM32
SCE1572_2178	41.32	5e-16	NP_828618.1;BAC75153.1;	CBM13
SCE1572_2178	41.32	5e-16	NP_828618.1;BAC75153.1;	GH16
SCE1572_2196	41.36	2e-22	YP_003767779.1;ADJ47377.1;	CBM2
SCE1572_2207	45.68	7e-19	BAD91082.1;	GH35
SCE1572_2236	76.53	0	YP_001612238.1;CAN91758.1;	GH23
SCE1572_2239	40.59	8e-32	YP_001106030.1;ZP_06565633.1;CAM03	CBM6
SCE1572_2241	40.09	4e-31	YP_003101875.1;ACU38029.1;	CBM2
SCE1572_2268	88.83	0	YP_001612264.1;CAN91784.1;	GH57
SCE1572_2278	41.55	6e-35	YP_002479972.1;ACL49294.1;	GT4
SCE1572_2307	92.1	3e-178	YP_001612302.1;A9FI55.1;CAN91822.1;	GT28
SCE1572_2308	42.49	4e-70	YP_003636693.1;ADG74494.1;	GT28
SCE1572_2333	44.92	8e-24	YP_002721447.1;ACN83743.1;	CE11
SCE1572_2363	53.06	4e-06	YP_003274139.1;ACY22246.1;	GT87
SCE1572_2375	51.22	6e-13	YP_001716461.1;ACA58829.1;	GT4
SCE1572_2396	83.11	5e-144	YP_001612388.1;CAN91908.1;	GT4
SCE1572_2452	42.03	9e-07	YP_434263.1;ABC29838.1;	CBM12
SCE1572_2452	42.03	9e-07	YP_434263.1;ABC29838.1;	CBM32
SCE1572_2494	85.75	0	YP_001612504.1;CAN92024.1;	GT1
SCE1572_2499	92.6	0	YP_001612814.1;CAN92334.1;	CE15
SCE1572_2503	86.56	8e-162	YP_001617388.1;CAN96908.1;	CE1
SCE1572_2565	52.07	0	YP_001105474.1;ZP_06564125.1;CAM02	GH97
SCE1572_2588	42.25	3e-30	YP_003766420.1;ADJ46018.1;	CBM2
SCE1572_2590	43.71	3e-20	YP_003766420.1;ADJ46018.1;	CBM2
SCE1572_2612	45.14	1e-46	YP_464228.1;ABC80791.1;	GT4
SCE1572_2624	83.27	0	YP_001615241.1;CAN94761.1;	CBM6
SCE1572_2624	83.27	0	YP_001615241.1;CAN94761.1;	GH43
SCE1572_2627	87.55	1e-145	YP_001615234.1;CAN94754.1;	GH10
SCE1572_2628	82.04	0	YP_001615235.1;CAN94755.1;	CBM13
SCE1572_2628	82.04	0	YP_001615235.1;CAN94755.1;	GH62
SCE1572_2636	47.19	7e-107	YP_529079.1;ABD82867.1;	CBM2
SCE1572_2636	47.19	7e-107	YP_529079.1;ABD82867.1;	CBM6
SCE1572_2636	47.19	7e-107	YP_529079.1;ABD82867.1;	CBM22
SCE1572_2636	47.19	7e-107	YP_529079.1;ABD82867.1;	GH10
SCE1572_2636	47.19	7e-107	YP_529079.1;ABD82867.1;	GH43
SCE1572_2647	40.47	5e-27	YP_003766420.1;ADJ46018.1;	CBM2
SCE1572_2652	40.15	5e-13	YP_003767779.1;ADJ47377.1;	CBM2
SCE1572_2690	40.59	1e-06	NP_628976.1;CAB97423.1;	GH23
SCE1572_2701	45.58	5e-23	NP_733639.1;CAD55485.1;	CBM13
SCE1572_2742	41.88	3e-17	YP_001360086.1;ABS01822.1;	GT2
SCE1572_2791	69.21	1e-126	YP_526296.1;ABD80084.1;	GH43
SCE1572_2816	41.1	2e-08	YP_003266068.1;ACY14175.1;	CBM13
SCE1572_2866	56.66	0	YP_002505572.1;ABG76968.1;ACL7559	CBM22
SCE1572_2878	89.13	0	YP_001612873.1;CAN92393.1;	CBM4
SCE1572_2878	89.13	0	YP_001612873.1;CAN92393.1;	GH9
SCE1572_2890	62.39	3e-157	YP_002134508.1;ACG73379.1;	GT0
SCE1572_2924	93.24	0	AAY32973.1;CAI43941.1;	GH31
SCE1572_2925	92.73	0	AAY32974.1;	CBM6
SCE1572_2925	92.73	0	AAY32974.1;	GH3
SCE1572_2942	46.59	8e-54	YP_001613915.1;CAN93435.1;	CE1
SCE1572_2944	48.71	1e-54	YP_001619514.1;CAN99034.1;	CE3
SCE1572_2960	57.04	2e-164	YP_003506087.1;ADD27067.1;	GH43
SCE1572_2967	46.88	3e-06	AAC98688.2;	GH33
SCE1572_3038	42.99	6e-18	YP_002505894.1;ACL75914.1;	GH73
SCE1572_3053	43	5e-42	NP_952035.1;AAR34308.1;ADI83822.1;	CBM50
SCE1572_3113	90.59	0	YP_001611883.1;CAN91403.1;	CBM42
SCE1572_3113	90.59	0	YP_001611883.1;CAN91403.1;	GH43
SCE1572_3114	91.48	0	YP_001611884.1;CAN91404.1;	GH43
SCE1572_3137	40.37	2e-35	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_3162	88.18	0	YP_001613016.1;CAN92536.1;	GH77
SCE1572_3163	93.08	0	YP_001613017.1;CAN92537.1;	CBM48
SCE1572_3163	93.08	0	YP_001613017.1;CAN92537.1;	GH13
SCE1572_3165	40.8	5e-131	YP_002942297.1;ACS17031.1;	CBM13
SCE1572_3181	84.41	0	YP_001613030.1;CAN92550.1;	GH13
SCE1572_3182	89.44	0	YP_001613031.1;CAN92551.1;	CBM48
SCE1572_3182	89.44	0	YP_001613031.1;CAN92551.1;	GH13
SCE1572_3208	46.27	2e-11	ADI12636.1;	CBM35
SCE1572_3236	40.91	5e-08	ACN62172.1;	CBM5
SCE1572_3236	40.91	5e-08	ACN62172.1;	GH5
SCE1572_3247	90.6	9e-112	YP_001613088.1;CAN92609.1;	GH23
SCE1572_3285	95.25	4e-166	YP_001613123.1;CAN92643.1;	GT2
SCE1572_3369	44.19	2e-08	YP_003446640.1;CBJ22778.1;	CBM32
SCE1572_3369	44.19	2e-08	YP_003446640.1;CBJ22778.1;	GH101

SCE1572_3384	41.53	1e-13	YP_001360086.1;ABS01822.1;	GT2
SCE1572_3414	85.3	0	YP_001613224.1;CAN92744.1;	GT51
SCE1572_3415	41.96	8e-30	YP_003960686.1;ADO37723.1;	GH13
SCE1572_3434	89.73	0	YP_001613240.1;CAN92760.1;	GH3
SCE1572_3467	42.86	6e-13	YP_002465840.1;ACL16117.1;	CBM6
SCE1572_3493	44.07	3e-15	YP_003408615.1;ADB74244.1;	GT2
SCE1572_3496	40.48	7e-13	YP_003408615.1;ADB74244.1;	GT2
SCE1572_3521	40.48	1e-10	YP_001360086.1;ABS01822.1;	GT2
SCE1572_3533	81.21	0	YP_001617007.1;CAN96527.1;	PL9
SCE1572_3549	73.82	0	YP_001615241.1;CAN94761.1;	CBM6
SCE1572_3549	73.82	0	YP_001615241.1;CAN94761.1;	GH43
SCE1572_3555	40.65	2e-27	NP_733639.1;CAD55485.1;	CBM13
SCE1572_3557	64.53	0	YP_001545516.1;ABX05388.1;	CBM12
SCE1572_3557	64.53	0	YP_001545516.1;ABX05388.1;	GH18
SCE1572_3559	42.5	3e-20	ACX31135.1;	GH0
SCE1572_3561	61.26	3e-125	ACF93778.1;	CE9
SCE1572_3563	49.94	0	BAA92145.1;	GH20
SCE1572_3564	41.91	6e-36	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_3565	41.7	1e-36	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_3568	41.91	7e-36	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_3577	51.3	2e-51	ZP_01464504.1;YP_003955390.1;EAU64	CBM13
SCE1572_3579	43.42	8e-07	BAA05832.1;	CBM20
SCE1572_3579	43.42	8e-07	BAA05832.1;	CBM34
SCE1572_3579	43.42	8e-07	BAA05832.1;	CBM48
SCE1572_3579	43.42	8e-07	BAA05832.1;	GH13
SCE1572_3580	46.99	3e-81	YP_677834.1;ABG58494.1;	CBM9
SCE1572_3611	43.75	1e-12	YP_003101875.1;ACU38029.1;	CBM2
SCE1572_3642	76.9	8e-161	ZP_01466799.1;YP_003955347.1;EAU62	CBM13
SCE1572_3648	41.59	6e-32	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_3679	45	1e-12	YP_003074740.1;ACR13005.1;	CBM2
SCE1572_3679	45	1e-12	YP_003074740.1;ACR13005.1;	CBM10
SCE1572_3679	45	1e-12	YP_003074740.1;ACR13005.1;	GH45
SCE1572_8890	93.52	1e-120	YP_001619971.1;CAN99491.1;	CBM57
SCE1572_8890	93.52	1e-120	YP_001619971.1;CAN99491.1;	GH11
SCE1572_3709	48.39	9e-13	YP_003115974.1;ACU74133.1;	GH78
SCE1572_3710	48.75	6e-15	CAN61133.1;	GH36
SCE1572_3725	68.63	4e-124	YP_001617650.1;CAN97170.1;	CE4
SCE1572_3734	63.47	7e-144	YP_001615903.1;CAN95423.1;	CBM2
SCE1572_3773	51.45	3e-111	XP_002500812.1;ACO62070.1;	CE1
SCE1572_3772	73.51	4e-171	YP_001613407.1;CAN92927.1;	GH5
SCE1572_3815	67.18	3e-116	YP_001612531.1;CAN92051.1;	CE1
SCE1572_3835	40.34	7e-17	YP_003408615.1;ADB74244.1;	GT2
SCE1572_3856	43.15	2e-08	YP_003911717.1;ADN74643.1;	CBM13
SCE1572_3884	47.97	3e-35	YP_002761100.1;BAH38630.1;	CE11
SCE1572_3945	47.31	9e-09	AAC98688.2;	GH33
SCE1572_3947	40.43	9e-16	AAA21932.1;	GH33
SCE1572_3962	41.36	5e-104	YP_003267712.1;ACY15819.1;	CBM2
SCE1572_4007	83.55	0	YP_001613610.1;CAN93130.1;	GT89
SCE1572_4072	40.29	5e-11	P23253.1;AAA30255.1;	GH33
SCE1572_4086	89.49	0	YP_001613679.1;CAN93199.1;	PL11
SCE1572_4088	46.6	9e-14	YP_003770756.1;ADJ50354.1;	CBM32
SCE1572_4088	46.6	9e-14	YP_003770756.1;ADJ50354.1;	CBM35
SCE1572_4088	46.6	9e-14	YP_003770756.1;ADJ50354.1;	GH29
SCE1572_4100	78.94	0	YP_001613703.1;CAN93223.1;	GH13
SCE1572_4132	95.25	0	YP_001613737.1;CAN93257.1;	GT1
SCE1572_4195	40.91	2e-07	YP_822029.1;ABJ81744.1;	CE4
SCE1572_4222	50.78	4e-74	YP_003744163.1;CBJ41515.1;	GH5
SCE1572_4244	94.2	0	YP_001613800.1;CAN93320.1;	GT5
SCE1572_4261	62.57	0	YP_003267346.1;ACY15453.1;	GT2
SCE1572_4265	44.3	1e-05	YP_003590781.1;ADG07637.1;	CE4
SCE1572_4336	88.69	0	YP_001619556.1;CAN99076.1;	GH43
SCE1572_4342	42.46	2e-27	YP_003766420.1;ADJ46018.1;	CBM2
SCE1572_4350	40.08	1e-31	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_4353	76.3	6e-132	YP_001619964.1;CAN99484.1;	CE6
SCE1572_4424	85.45	0	YP_001613907.1;CAN93427.1;	GT20
SCE1572_4461	54.08	9e-67	YP_003073663.1;ACR13114.1;	CBM2
SCE1572_4461	54.08	9e-67	YP_003073663.1;ACR13114.1;	CBM10
SCE1572_4461	54.08	9e-67	YP_003073663.1;ACR13114.1;	GH16
SCE1572_4463	40.28	3e-26	YP_003767779.1;ADJ47377.1;	CBM2
SCE1572_4469	64.4	0	YP_003650973.1;ADG87080.1;	GH115
SCE1572_4475	81.69	0	YP_001615994.1;CAN95514.1;	GH5
SCE1572_4488	79.6	6e-176	ABC94557.1;	GH10
SCE1572_4493	43.5	2e-30	YP_003765393.1;ADJ44991.1;	CBM2
SCE1572_4540	49.89	0	YP_003270912.1;ACY19019.1;	CBM48
SCE1572_4555	54.97	9e-177	YP_002943270.1;ACS18004.1;	PL10
SCE1572_4556	44.79	2e-58	YP_001546225.1;ABX06097.1;	CBM2
SCE1572_4556	44.79	2e-58	YP_001546225.1;ABX06097.1;	PL1
SCE1572_4567	95.55	3e-138	YP_001614053.1;CAN93573.1;	PL3
SCE1572_4570	58.79	1e-134	YP_003884903.1;ADN00347.1;	PL1
SCE1572_4574	42.37	2e-12	YP_001360086.1;ABS01822.1;	GT2

SCE1572_4587	41.54	1e-05	YP_526867.1;ABD80655.1;	CBM6
SCE1572_4587	41.54	1e-05	YP_526867.1;ABD80655.1;	CBM56
SCE1572_4587	41.54	1e-05	YP_526867.1;ABD80655.1;	GH16
SCE1572_4633	41.14	2e-67	YP_003899706.1;ADN17640.1;	GT2
SCE1572_4637	89.32	0	YP_001614089.1;CAN93609.1;	GH31
SCE1572_4645	89.29	0	YP_001614095.1;CAN93615.1;	GH1
SCE1572_4662	40.76	5e-16	YP_003767779.1;ADJ47377.1;	CBM2
SCE1572_4670	44.66	6e-10	YP_028446.1;AAT54497.1;	GT51
SCE1572_4692	40	1e-30	YP_003101875.1;ACU38029.1;	CBM2
SCE1572_4693	88.8	0	YP_001612136.1;CAN91656.1;	GH44
SCE1572_4696	80.07	8e-138	YP_001617738.1;CAN97258.1;	GH10
SCE1572_4736	40.68	2e-14	ADO76962.1;	CBM50
SCE1572_4741	41.3	4e-42	YP_003270912.1;ACY19019.1;	CBM48
SCE1572_4762	65.71	3e-06	YP_736718.1;ABI41661.1;	CE1
SCE1572_4785	43.4	2e-11	YP_526867.1;ABD80655.1;	CBM6
SCE1572_4785	43.4	2e-11	YP_526867.1;ABD80655.1;	CBM56
SCE1572_4785	43.4	2e-11	YP_526867.1;ABD80655.1;	GH16
SCE1572_4801	87.67	0	YP_001614222.1;CAN93742.1;	GT4
SCE1572_4803	44.12	9e-42	YP_128593.1;CAG18791.1;	GT2
SCE1572_4805	43.94	3e-09	YP_003121612.1;ACU59411.1;	GH20
SCE1572_4815	45	4e-08	YP_314064.1;AAZ96259.1;	GT2
SCE1572_4820	40.18	3e-15	YP_003785142.1;ADK30641.1;	CE11
SCE1572_4824	91.91	0	YP_001614240.1;CAN93760.1;	GT2
SCE1572_4861	43.5	5e-22	NP_628653.1;CAB92109.1;	CBM13
SCE1572_4869	62.03	5e-18	YP_003685414.1;ADH63906.1;	CBM50
SCE1572_4879	40.17	4e-17	YP_001360086.1;ABS01822.1;	GT2
SCE1572_3807	50.79	3e-08	ACX42259.1;	CBM12
SCE1572_629	40.78	4e-13	YP_003408615.1;ADB74244.1;	GT2
SCE1572_4965	48.14	0	YP_003270912.1;ACY19019.1;	CBM48
SCE1572_5042	43.02	8e-09	YP_003800599.1;ADK67719.1;	GH73
SCE1572_5045	46.15	5e-06	YP_063040.1;AAT89935.1;	CBM2
SCE1572_5045	46.15	5e-06	YP_063040.1;AAT89935.1;	GH5
SCE1572_5056	40.34	2e-10	YP_003324485.1;ACZ43662.1;	CBM57
SCE1572_5065	40.87	2e-30	YP_003101875.1;ACU38029.1;	CBM2
SCE1572_5121	88.44	0	YP_001614492.1;CAN94012.1;	GH23
SCE1572_5132	41.38	8e-14	YP_003523228.1;ADE10841.1;	GT41
SCE1572_5300	64.1	4e-115	YP_001612123.1;CAN91643.1;	GH43
SCE1572_5331	44.14	1e-19	YP_001360086.1;ABS01822.1;	GT2
SCE1572_5337	88.24	0	YP_001613382.1;CAN92902.1;	CBM13
SCE1572_5363	40	2e-22	NP_628653.1;CAB92109.1;	CBM13
SCE1572_5374	75.89	0	YP_001614655.1;CAN94175.1;	CBM13
SCE1572_5374	75.89	0	YP_001614655.1;CAN94175.1;	GH43
SCE1572_5377	41.98	2e-95	YP_003267712.1;ACY15819.1;	CBM2
SCE1572_5385	81.8	0	YP_001614668.1;CAN94188.1;	CBM20
SCE1572_5385	81.8	0	YP_001614668.1;CAN94188.1;	GH15
SCE1572_5389	40	3e-20	YP_003838689.1;ADL49113.1;	CBM2
SCE1572_5414	91.45	2e-131	YP_001614713.1;CAN94233.1;	GH114
SCE1572_5430	78.99	0	YP_001617401.1;CAN96921.1;	GH115
SCE1572_5454	45.76	2e-09	YP_002928937.1;ACR62057.1;	GH2
SCE1572_5472	41.41	8e-14	YP_001615903.1;CAN95423.1;	CBM2
SCE1572_5488	71.68	6e-141	YP_001614743.1;CAN94263.1;	CE1
SCE1572_5498	48.62	8e-10	AAA21932.1;	GH33
SCE1572_5512	40.62	1e-06	YP_001814235.1;ACB61218.1;	GT51
SCE1572_5517	42.19	2e-07	ZP_02618969.1;YP_002862279.1;EDT84	CBM50
SCE1572_5527	42.27	1e-46	ACT97502.1;	GH78
SCE1572_5582	79.61	7e-138	YP_001611675.1;CAN91195.1;	GT4
SCE1572_5584	84.42	0	YP_001611673.1;CAN91193.1;	GT4
SCE1572_5590	42.11	1e-07	YP_003765393.1;ADJ44991.1;	CBM2
SCE1572_5623	94.38	0	YP_001614839.1;CAN94360.1;	GH1
SCE1572_5692	46.59	4e-06	ACO87651.1;	GH33
SCE1572_5702	83.96	0	YP_001614883.1;CAN94403.1;	GT4
SCE1572_5703	91.23	0	YP_001614884.1;CAN94404.1;	GT4
SCE1572_5760	86.63	2e-165	YP_001614935.1;CAN94455.1;	GH3
SCE1572_5766	92.44	0	YP_001614940.1;CAN94460.1;	GH1
SCE1572_5801	51.02	4e-06	YP_001612238.1;CAN91758.1;	GH23
SCE1572_5873	40.77	3e-10	YP_003408615.1;ADB74244.1;	GT2
SCE1572_5876	40.27	5e-26	YP_715463.1;CAJ63931.1;	CBM13
SCE1572_5895	87.46	0	YP_001617375.1;CAN96895.1;	CBM13
SCE1572_5906	94.84	0	YP_001615031.1;CAN94551.1;	GT35
SCE1572_5931	83.7	0	YP_001615051.1;CAN94571.1;	GT51
SCE1572_5942	47.3	3e-09	YP_003597479.1;ADF39129.1;	GH25
SCE1572_5944	46.43	8e-20	YP_002505894.1;ACL75914.1;	GH73
SCE1572_6059	41.64	2e-121	CAN65674.1;	GH28
SCE1572_6074	90.62	0	YP_001615137.1;CAN94657.1;	CBM48
SCE1572_6074	90.62	0	YP_001615137.1;CAN94657.1;	GH13
SCE1572_6094	78.75	2e-127	YP_001611380.1;CAN90900.1;	CBM5
SCE1572_6116	67.37	1e-145	ADI11428.1;	CE15
SCE1572_6125	41.07	4e-10	YP_003637447.1;ADG75248.1;	GT4
SCE1572_6133	41.06	2e-23	YP_003767779.1;ADJ47377.1;	CBM2
SCE1572_6155	45.45	1e-34	YP_003765393.1;ADJ44991.1;	CBM2

SCE1572_6158	41.73	1e-31	YP_003838689.1;ADL49113.1;	CBM2
SCE1572_6165	40.24	6e-28	NP_628653.1;CAB92109.1;	CBM13
SCE1572_6180	43.69	2e-12	AAT81212.1;	CBM5
SCE1572_6180	43.69	2e-12	AAT81212.1;	GH18

* Blastp analysis based on CAZy database in 2011-05.