

Übersetzung der ERGO ORF-Nummern in die Genbank-Nummern (MM-Nummern)

ERGO ORF Nummer	Genbank Nummer (MM-Nummer)	Annotation
0003	AE008384_2818	Anthranilate synthase, component I
0004	AE008384_2817	Anthranilate synthase, component II
0005	AE008384_2816	Conserved protein
0006	AE008384_2815	Metal-dependent hydrolase
0007	AE008384_2814	Ribonuclease
0008	AE008384_2813	Hypothetical protein
0008	AE008384_2813	Hypothetical protein
0009	AE008384_2812	Phenylalanyl-tRNA synthetase, beta chain
0011	AE008384_307	Uroporphyrin-III C-methyltransferase
0012	AE008384_306	Metal-dependent hydrolases
0013	AE008384_305	Conserved protein
0014	AE008384_304	AAA family ATPase
0015	AE008384_303	Hypothetical protein
0016	AE008384_302	Glucose-1-phosphate thymidyltransferase
0017	AE008384_301	Phosphoglucomutase/phosphomannomutase
0018	AE008384_300	Glucosamine-fructose-6-phosphate aminotransferase [isomerizing]
0019	AE008384_299	Glucose-1-phosphate thymidyltransferase
0020	AE008384_298	Glycine betaine-binding protein
0021	AE008384_297	Glycine betaine transporter, ATP-binding protein
0021	AE008384_297	Glycine betaine transporter, ATP-binding protein
0022	AE008384_296	Glycine betaine transport system, permease protein
0023	AE008384_295	Glycine betaine transport system, permease protein
0024	AE008384_294	Na ⁺ /H ⁺ antiporter
0025	AE008384_293	Conserved protein
0026	AE008384_292	Conserved protein
0027	AE008384_291	Hypothetical protein
0028	AE008384_290	Hypothetical protein
0029	AE008384_289	Transcriptional regulator
0030	AE008384_288	Transcriptional regulator, ArsR family
0031	AE008384_287	Deoxyhypusine synthase
0032	AE008384_286	Hypothetical protein
0033	AE008384_285	Conserved protein
0034	AE008384_284	Amidohydrolase (putative)
0034	AE008384_284	Amidohydrolase (putative)
0035	AE008384_283	Leucyl-tRNA synthetase
0036	AE008384_282	Threonine synthase
0037	AE008384_281	Hypothetical protein
0038	AE008384_280	Hypothetical protein
0039	AE008384_279	Membrane alanine aminopeptidase
0040	AE008384_278	DNA-cytosine methyltransferase
0041	AE008384_277	T/G-SPECIFIC DNA GLYCOSYLASE
0042	AE008384_276	Superfamily II DNA and RNA helicase
0043	AE008384_275	Hypothetical protein
0044	AE008384_274	Endonuclease (putative)
0044	AE008384_274	Endonuclease (putative)
0045	AE008384_273	Hypothetical protein
0046	AE008384_272	Hypothetical protein
0047	AE008384_271	Conserved protein

0048	AE008384_270	Conserved protein
0049	AE008384_269	Hypothetical protein
0050	AE008384_267	Conserved protein
0051	AE008384_266	Conserved protein
0052	AE008384_265	Conserved protein
0053	AE008384_264	Conserved protein
0054	AE008384_263	Conserved protein
0055	AE008384_262	Conserved protein
0056	AE008384_261	Uncharacterized flavoprotein
0057	AE008384_260	Putative Sensory Transduction protein Kinase
0058	AE008384_259	Dihydroxy-acid dehydratase
0059	AE008384_258	Transposase
0060	AE008384_257	Hypothetical protein
0061	AE008384_256	N5-METHYL-H4MPT:COENZYME M METHYLTRANSFERASE, SUBUNIT H HOMOLOG
0062	AE008384_255	N5-METHYL-H4MPT:COENZYME M METHYLTRANSFERASE, SUBUNIT A HOMOLOG
0063	AE008384_254	N5-METHYL-H4MPT:COENZYME M METHYLTRANSFERASE, SUBUNIT X
0066	AE008384_1736	Transposase
0067	AE008384_1737	Heme biosynthesis protein
0068	AE008384_1738	Heme biosynthesis protein
0073	AE008384_1742	Delta-aminolevulinic acid dehydratase
0074	AE008384_1743	Glutamate-1-semialdehyde 2,1-aminomutase
0075	AE008384_1744	Porphobilinogen deaminase
0076	AE008384_1745	Dihydroorotate dehydrogenase
0077	AE008384_1746	Dihydroorotate dehydrogenase electron transfer subunit
0078	AE008384_1747	2-Hydroxy-2,4-diene-1,7-dioate isomerase
0079	AE008384_1748	Conserved protein
0080	AE008384_1749	Glutamyl-tRNA synthetase
0081	AE008384_1750	Conserved protein
0084	AE008384_1752	Conserved protein
0085	AE008384_1753	D-3-phosphoglycerate dehydrogenase
0086	AE008384_1754	Conserved protein
0087	AE008384_1755	LSU ribosomal protein L18E
0088	AE008384_1756	LSU ribosomal protein L13P
0089	AE008384_1757	SSU ribosomal protein S9P
0090	AE008384_1758	DNA-directed RNA polymerase subunit N
0091	AE008384_1759	DNA-directed RNA polymerase subunit K
0092	AE008384_1760	SSU ribosomal protein S2P
0093	AE008384_1761	Conserved protein
0094	AE008384_1762	Mevalonate kinase
0094	AE008384_1762	Mevalonate kinase
0095	AE008384_1763	Archaeal Kinase
0096	AE008384_1764	Isopentenyl-diphosphate delta-isomerase
0097	AE008384_1766	Zn-dependent hydrolase
0098	AE008384_1767	Geranyltranstransferase
0099	AE008384_1768	Hypothetical protein
0100	AE008384_1770	Pyruvate, phosphate dikinase
0101	AE008384_1772	Transcription initiation factor IIB
0101	AE008384_1772	Transcription initiation factor IIB
0102	AE008384_1773	Conserved protein
0103	AE008384_1774	Hypothetical protein
0104	AE008384_1775	METHYLTRANSFERASE
0105	AE008384_1776	Thiol-specific antioxidant protein

0106	AE008384_1777	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
0107	AE008384_1778	Cobalt-zinc-cadmium resistance protein
0108	AE008384_1779	Hypothetical protein
0109	AE008384_1780	Hypothetical protein
0110	AE008384_1781	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
0111	AE008384_1782	Sodium/glutamate symport carrier protein
0112	AE008384_1783	Hypothetical protein
0113	AE008384_1784	Hypothetical protein
0114	AE008384_1785	Hypothetical protein
0115	AE008384_1787	Transposase
0116	AE008384_1788	HTH DNA-binding protein
0117	AE008384_1789	Hypothetical protein
0118	AE008384_1790	Conserved protein
0119	AE008384_1791	Conserved protein
0120	AE008384_1792	Hypothetical protein
0121	AE008384_1793	Hypothetical protein
0122	AE008384_1794	Hypothetical protein
0123	AE008384_1795	Iron-sulfur cluster-binding protein
0124	AE008384_1796	Conserved protein
0125	AE008384_1797	10 kDa chaperonin
0126	AE008384_1798	60 kDa chaperonin
0127	AE008384_1799	Conserved protein
0128	AE008384_1800	Transporter
0129	AE008384_1801	Conserved protein
0130	AE008384_1802	Aspartate aminotransferase
0131	AE008384_1803	Hypothetical protein
0132	AE008384_1804	Rubryerythrin
0133	AE008384_1805	Conserved protein
0134	AE008384_1806	Conserved protein
0136	AE008384_1807	protein Translation Initiation Factor 2 subunit alpha IF-2a
0137	AE008384_1808	SSU ribosomal protein S27E
0138	AE008384_1809	LSU ribosomal protein L44E
0139	AE008384_1810	Conserved protein
0140	AE008384_1811	DNA primase small subunit
0141	AE008384_1812	Conserved protein
0142	AE008384_1813	Conserved protein
0143	AE008384_1814	Hypothetical protein
0144	AE008384_1815	Cell division protein
0146	AE008384_1816	Conserved protein
0146	AE008384_1816	Conserved protein
0147	AE008384_1817	Conserved protein
0148	AE008384_1818	Conserved protein
0149	AE008384_1819	Transposase
0150	AE008384_1820	tRNA nucleotidyltransferase
0151	AE008384_1821	REPLICATION FACTOR C SUBUNIT
0152	AE008384_1823	PUTATIVE SMALL MULTI-DRUG EXPORT PROTEIN
0152	AE008384_1823	PUTATIVE SMALL MULTI-DRUG EXPORT PROTEIN
0153	AE008384_1824	Ferredoxin
0154	AE008384_1825	DNA binding protein
0155	AE008384_1826	Methyltransferase
0156	AE008384_1827	Pyruvate carboxylase (biotin-containing) subunit B
0157	AE008384_1828	Pyruvate carboxylase, subunit A

		BIOTIN--[ACETYL-COA-CARBOXYLASE] SYNTHETASE/BIOTIN OPERON REPRESSOR
0158	AE008384_1829	
0159	AE008384_1830	Conserved protein
0160	AE008384_1832	Transposase
0161	AE008384_1833	Phosphoserine phosphatase
0162	AE008384_1834	Conserved protein
0162	AE008384_1834	Conserved protein
0163	AE008384_1835	Conserved protein
0164	AE008384_1836	CELL DIVISION CONTROL PROTEIN (MCM family)
0165	AE008384_1837	RNA methylase
0166	AE008384_1838	Ferredoxin
0167	AE008384_1839	Conserved protein
0168	AE008384_1840	Conserved protein
0169	AE008384_1842	Sulfite reductase, assimilatory-type
0170	AE008384_1843	Heterodisulfide reductase, subunit HdrE
0171	AE008384_1844	Heterodisulfide reductase, subunit HdrD
0172	AE008384_1845	Conserved protein
0173	AE008384_1846	Conserved protein
0174	AE008384_1847	Hypothetical protein
0175	AE008384_1849	Geranylgeranyl reductase
0176	AE008384_1851	Hypothetical protein
0177	AE008384_1852	Conserved protein
0179	AE008384_1854	Archaeal flavoprotein
0180	AE008384_1855	Dipeptide/oligopeptide ABC transporter, ATP-binding protein
0181	AE008384_1856	Dipeptide/ oligopeptide ABC transporter, ATP-binding protein
0182	AE008384_1857	Dipeptide/ oligopeptide ABC transporter, permease
0183	AE008384_1858	Dipeptide/ oligopeptide ABC transporter, permease
0184	AE008384_1859	Dipeptide/ oligopeptide binding protein
0185	AE008384_1860	Conserved protein
0186	AE008384_1861	Conserved protein
0187	AE008384_1862	Transporter
0187	AE008384_1862	Transporter
0188	AE008384_1863	Transcriptional regulator, MarR family
0189	AE008384_1864	Conserved protein
0190	AE008384_1865	Conserved protein
0191	AE008384_1866	Hypothetical protein
0192	AE008384_1868	Conserved protein
0193	AE008384_1869	Conserved protein
0194	AE008384_1870	Conserved protein
0195	AE008384_1871	Vanillate decarboxylase protein
0196	AE008384_1872	Conserved protein
0197	AE008384_1873	Phosphohydrolase
0198	AE008384_1874	METHYLTRANSFERASE
0200	AE008384_1875	Conserved protein
0201	AE008384_1876	Purine phosphoribosyltransferase
0202	AE008384_1877	Diphthamide synthase subunit
0203	AE008384_1878	Methyltransferase
0204	AE008384_1879	putative RNA-binding protein
0205	AE008384_1880	DNA-directed RNA polymerase subunit L
0206	AE008384_1881	Conserved protein
0207	AE008384_1882	Conserved protein
0208	AE008384_1883	Conserved protein
0209	AE008384_1885	Diaminopimelate decarboxylase

0210	AE008384_1886	Nonspecific acid phosphatase precursor
0211	AE008384_1887	Hypothetical protein
0212	AE008384_1888	Transposase
0213	AE008384_1889	Conserved protein
0214	AE008384_1890	Conserved protein
0215	AE008384_1891	Na ⁺ /H ⁺ antiporter
0216	AE008384_1892	Arylsulfatase
0217	AE008384_1893	Probable transcriptional regulator
0220	AE008384_1568	MOLYBDENUM-CONTAINING FORMYLMETHANOFURAN DEHYDROGENASE
0221	AE008384_1569	MOLYBDENUM FORMYLMETHANOFURAN DEHYDROGENASE SUBUNIT
0221	AE008384_1569	MOLYBDENUM FORMYLMETHANOFURAN DEHYDROGENASE SUBUNIT
0222	AE008384_1570	Conserved protein
0223	AE008384_1571	Conserved protein
0224	AE008384_1572	Conserved protein
0226	AE008384_1574	Conserved protein
0227	AE008384_1575	Conserved protein
0228	AE008384_1576	Conserved protein
0229	AE008384_1577	Nicotinate-nucleotide pyrophosphorylase
0229	AE008384_1577	Nicotinate-nucleotide pyrophosphorylase
0230	AE008384_1578	Molybdate ABC transporter, ATP-binding protein
0231	AE008384_1579	Molybdate ABC transporter, permease protein
0232	AE008384_1580	Molybdate-binding protein
0233	AE008384_1581	Putative NAD(P)H oxidoreductase
0234	AE008384_1582	IRON-SULFUR FLAVOPROTEIN
0235	AE008384_1584	NADPH-flavin oxidoreductase
0236	AE008384_1585	IRON-SULFUR FLAVOPROTEIN
0237	AE008384_1586	Transcriptional regulator, MarR family
0238	AE008384_1587	DNA REPAIR HELICASE
0239	AE008384_1588	SURFACE LAYER PROTEIN B
0240	AE008384_1589	SURFACE LAYER PROTEIN B
0241	AE008384_1590	Conserved protein
0242	AE008384_1591	Conserved protein
0243	AE008384_1592	Conserved protein
0244	AE008384_1593	probable RNA processing protein
0245	AE008384_1594	Fibrillarin
0246	AE008384_1595	Conserved protein
0247	AE008384_1596	Conserved protein
0248	AE008384_1597	Integral membrane protein
0249	AE008384_1598	Conserved protein
0250	AE008384_1599	Integral membrane protein
0251	AE008384_1600	Hypothetical protein
0252	AE008384_1601	Cobalamin biosynthesis protein
0253	AE008384_1602	Cobalamin biosynthesis protein CobN
0254	AE008384_1603	Conserved protein
0255	AE008384_1604	TUNGSTEN FORMYLMETHANOFURAN DEHYDROGENASE, SUBUNIT E
0256	AE008384_1605	Conserved protein
0257	AE008384_1606	Archaeal protein Translation Initiation Factor 2B subunit 2aIF-2B2
0258	AE008384_1607	Acetyltransferase
0259	AE008384_1608	ABC transporter, ATP-binding protein
0260	AE008384_1609	ABC transporter, permease protein
0261	AE008384_1610	HYPOTHETICAL BINDING PROTEIN OF ABC TRANSPORTER
0262	AE008384_1611	Uridylate kinase

0263	AE008384_1612	Conserved protein
0264	AE008384_1613	Conserved protein
0265	AE008384_1614	Transcriptional regulator, TetR family
0266	AE008384_1615	OXIDOREDUCTASE, ALDO/KETO REDUCTASE FAMILY
0267	AE008384_1616	Phosphoribosylaminoimidazole carboxylase
0268	AE008384_1617	Conserved protein
0269	AE008384_1618	Aspartate-semialdehyde dehydrogenase
0270	AE008384_1619	Ferredoxin
0271	AE008384_1620	Conserved protein
0272	AE008384_1621	Cobalamin biosynthesis protein CobW
0273	AE008384_1622	Conserved protein
0274	AE008384_1624	Transposase
0275	AE008384_1625	Conserved protein
0276	AE008384_1626	Conserved protein
0277	AE008384_1627	Fructose-bisphosphate aldolase
0278	AE008384_1628	Deoxycytidine triphosphate deaminase
0279	AE008384_1629	Conserved protein
0280	AE008384_1630	Conserved protein
0281	AE008384_1631	IRON-SULFUR FLAVOPROTEIN
0282	AE008384_1632	IRON-SULFUR FLAVOPROTEIN
0283	AE008384_1633	ABC transporter, ATP-binding protein
0283	AE008384_1633	ABC transporter, ATP-binding protein
0284	AE008384_1634	Transcriptional regulator
0284	AE008384_1634	Transcriptional regulator
0285	AE008384_1635	Beta-phosphoglucomutase / Glucose-1-phosphate phosphodismutase
0286	AE008384_1636	GLYCOSYLTRANSFERASE
0287	AE008384_1638	Glycosyltransferase involved in cell wall biogenesis
0288	AE008384_1639	Putative acetyltransferase
0289	AE008384_1640	Putative polysaccharide deacetylase
0290	AE008384_1641	GLYCOSYL TRANSFERASE
0291	AE008384_1643	OLIGOSACCHARIDE REPEAT UNIT TRANSPORTER
0292	AE008384_1644	METHYLTRANSFERASE
0293	AE008384_1645	Hypothetical protein
0294	AE008384_1647	Methanol:corrinoid methyltransferase MtaB
0295	AE008384_1648	Methanol corrinoid protein MtaC
0296	AE008384_1649	Conserved protein
0297	AE008384_1650	Conserved protein
0298	AE008384_1651	Conserved protein
0299	AE008384_1652	Ferredoxin
0300	AE008384_1653	Conserved protein
0301	AE008384_1654	GLYCOSYL TRANSFERASE
0302	AE008384_1655	Conserved protein
0303	AE008384_1656	OXIDOREDUCTASE
0304	AE008384_1657	POSSIBLE SERINE/THREONINE PROTEIN PHOSPHATASE
0305	AE008384_1658	methyl-accepting chemotaxis protein
0306	AE008384_1660	MG2+ TRANSPORTER MGTE
0307	AE008384_1661	TYPE I RESTRICTION-MODIFICATION SYSTEM RESTRICTION SUBUNIT
0308	AE008384_1662	TRANSCRIPTIONAL REGULATORY PROTEIN, ASNC FAMILY
0309	AE008384_1663	Conserved protein
0310	AE008384_1664	Conserved protein
0311	AE008384_1665	Conserved protein
0314	AE008384_1667	TYPE I RESTRICTION-MODIFICATION SYSTEM SPECIFICITY SUBUNIT

0315	AE008384_1668	ATP-dependent DNA helicase RecG
0316	AE008384_1669	TYPE I RESTRICTION-MODIFICATION SYSTEM METHYLATION SUBUNIT
0317	AE008384_1670	Conserved protein
0318	AE008384_1671	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
0319	AE008384_1672	Methyltransferase
0320	AE008384_1673	Galactoside O-acetyltransferase
0321	AE008384_1675	Conserved protein
0321	AE008384_1675	Conserved protein
0322	AE008384_1676	Conserved protein
0324	AE008384_1678	Conserved protein
0325	AE008384_1679	Transposase
0326	AE008384_1680	Precorrin-6Y C5,15-methyltransferase [decarboxylating]
0327	AE008384_1681	CbiD protein
0328	AE008384_1682	DNA mismatch repair protein
0329	AE008384_1683	DNA mismatch repair protein
0330	AE008384_1684	O-acetyl transferase
0331	AE008384_1685	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase
0332	AE008384_1686	Iron-sulfur binding reductase
0333	AE008384_1687	DIMETHYLAMINE CORRINOID PROTEIN
0333	AE008384_1687	DIMETHYLAMINE CORRINOID PROTEIN
0334	AE008384_1688	Trimethylamine:corrinoid methyltransferase
0335	AE008384_1689	Trimethylamine:corrinoid methyltransferase MtbB (C-terminal domain)
0336	AE008384_1690	TRIMETHYLAMINE CORRINOID PROTEIN
0337	AE008384_1691	Trimethylamine permease
0338	AE008384_1692	Conserved protein
0340	AE008384_1693	Dimethylamine:Corrinoid Methyltransferase MtbB
0341	AE008384_1694	Dimethylamine:corrinoid methyltransferase MtbB (C-terminal domain)
0342	AE008384_1695	Conserved protein
0343	AE008384_1696	Lysyl-tRNA synthetase, class I
0344	AE008384_1697	Conserved protein
0345	AE008384_1698	Conserved protein
0346	AE008384_1700	PROTEASE
0347	AE008384_1701	Putative nucleoside-diphosphate-sugar epimerase
0348	AE008384_1702	Conserved protein
0349	AE008384_1703	Conserved protein
0350	AE008384_1704	Histidine biosynthesis protein
0351	AE008384_1705	Conserved protein
0352	AE008384_1706	Protein-L-isoaspartate O-methyltransferase
0353	AE008384_1707	Conserved protein
0354	AE008384_1708	Conserved protein
0355	AE008384_1709	Conserved protein
0356	AE008384_1710	3,4 dihydroxy-2-butanone 4-phosphate synthase
0357	AE008384_1711	Cobalt-zinc-cadmium resistance protein
0357	AE008384_1711	Cobalt-zinc-cadmium resistance protein
0358	AE008384_1712	Chorismate synthase
0359	AE008384_1713	Conserved protein
0360	AE008384_1714	Conserved protein
0361	AE008384_1716	Transcriptional regulator, ArsR family
0362	AE008384_1717	Conserved protein
0363	AE008384_1718	Conserved protein
0364	AE008384_1719	Hypothetical protein
0366	AE008384_1722	Hypothetical protein

0367	AE008384_1723	Conserved protein
0368	AE008384_1726	Heme biosynthesis protein
0369	AE008384_1727	Heme biosynthesis protein
0378	AE008384_2426	Dienelactone hydrolase
0379	AE008384_2425	Conserved protein
0380	AE008384_2424	Conserved protein
0381	AE008384_2423	Superoxide dismutase
0382	AE008384_2422	Conserved protein
0383	AE008384_2421	Chaperone protein
0386	AE008384_2419	DNA gyrase, subunit B
0387	AE008384_2418	Type II DNA topoisomerase VI, subunit A
0388	AE008384_2417	Type II DNA topoisomerase VI, subunit B
0389	AE008384_2416	TRANSCRIPTIONAL REGULATORY PROTEIN, ASNC FAMILY
0390	AE008384_2415	Hypothetical protein
0391	AE008384_2413	Conserved protein
0392	AE008384_2412	Conserved protein
0393	AE008384_2409	Conserved protein
0394	AE008384_2408	Conserved protein
0395	AE008384_2407	Conserved protein
0396	AE008384_2406	Conserved protein
0397	AE008384_2405	Cation transporter
0398	AE008384_2404	Cation transporter
0399	AE008384_2403	Potassium channel protein
0400	AE008384_2402	Hypothetical protein
0401	AE008384_2401	Conserved protein
0402	AE008384_2400	Hypothetical protein
0403	AE008384_2399	Peptide methionine sulfoxide reductase
0404	AE008384_2398	ABC transporter, ATP-binding protein
0405	AE008384_2397	Heme exporter, protein B
0406	AE008384_2396	Heme exporter, protein C
0406	AE008384_2396	Heme exporter, protein C
0407	AE008384_2395	NADH:flavin oxidoreductases
0408	AE008384_2394	Transcriptional regulator, MerR family
0409	AE008384_2393	Conserved protein
0410	AE008384_2392	Long-chain-fatty-acid--CoA ligase
0412	AE008384_2389	Conserved protein
0413	AE008384_2388	Cobalt transport protein
0414	AE008384_2387	Cobalt transport ATP-binding protein
0415	AE008384_2386	Hypothetical protein
0416	AE008384_2385	Conserved protein
0417	AE008384_2384	Conserved protein
0418	AE008384_2383	Small nuclear riboprotein (snRNA) homolog
0419	AE008384_2381	Conserved protein
0420	AE008384_2380	ATP-dependent DNA helicase
0421	AE008384_2379	5'-methylthioadenosine phosphorylase
0422	AE008384_2378	Conserved transmembrane protein
0423	AE008384_2377	Hypothetical protein
0424	AE008384_2376	Conserved protein
0425	AE008384_2375	Conserved protein
0426	AE008384_2374	Conserved protein
0427	AE008384_2373	3-isopropylmalate dehydratase
0428	AE008384_2372	Phosphoribosyl-ATP pyrophosphatase

0429	AE008384_2371	Conserved protein
0430	AE008384_2370	GTP-binding protein
0431	AE008384_2369	Cytochrome c-type biogenesis protein
0432	AE008384_2368	Aspartate aminotransferase
0433	AE008384_2367	HEXULOSE-6-PHOSPHATE ISOMERASE
0434	AE008384_2366	Conserved protein
0435	AE008384_2365	Conserved protein
0436	AE008384_2364	GTP-binding protein
0437	AE008384_2363	Conserved protein
0438	AE008384_2362	Shikimate kinase
0439	AE008384_2361	Chorismate mutase / prephenate dehydratase
0440	AE008384_2360	Phosphoribosylaminoimidazole carboxylase, catalytic subunit
0441	AE008384_2359	Conserved protein
0442	AE008384_2358	6-phosphofructokinase (ADP)
0443	AE008384_2357	Hypothetical protein
0444	AE008384_2356	Conserved protein
0445	AE008384_2355	Diphthine synthase
0446	AE008384_2354	Thioredoxin
0447	AE008384_2353	Thioredoxin reductase
0448	AE008384_2352	Conserved protein
0449	AE008384_2351	Transcriptional regulator
0450	AE008384_2350	O-linked N-acetylglucosamine transferase
0451	AE008384_2349	Putative phosphatase
0452	AE008384_2348	O-linked N-acetylglucosamine transferase
0453	AE008384_2347	Ribosomal protein S6 modification protein
0454	AE008384_2346	METHYLTRANSFERASE
0457	AE008384_2211	Hypothetical protein
0458	AE008384_2210	Oligosaccharyl transferase
0459	AE008384_2209	Conserved protein
0460	AE008384_2208	putative sugar kinase
0461	AE008384_2207	Conserved protein
0462	AE008384_2206	Molybdenum cofactor biosynthesis protein C
0463	AE008384_2205	Ribose-phosphate pyrophosphokinase
0464	AE008384_2204	Hypothetical protein
0465	AE008384_2203	Hypothetical protein
0466	AE008384_2202	Hypothetical protein
0467	AE008384_2201	Hypothetical protein
0468	AE008384_2199	TYPE I RESTRICTION-MODIFICATION SYSTEM SPECIFICITY SUBUNIT
0469	AE008384_2198	TYPE I RESTRICTION-MODIFICATION SYSTEM METHYLATION SUBUNIT
0470	AE008384_2197	Conserved protein
0471	AE008384_2196	Conserved protein
0472	AE008384_2195	F420-DEPENDENT GLUCOSE-6-PHOSPHATE DEHYDROGENASE
0473	AE008384_2194	DNA repair protein RAD50
0474	AE008384_2193	DNA REPAIR PROTEIN (MRE11/RAD32 family)
0476	AE008384_2190	Hypothetical protein
0477	AE008384_2189	Rubryerythrin
0478	AE008384_2188	Conserved protein
0479	AE008384_2187	Conserved protein
0480	AE008384_2186	Conserved protein
0481	AE008384_2185	Hypothetical protein
0482	AE008384_2184	TATA-box binding protein
0482	AE008384_2184	TATA-box binding protein

0483	AE008384_2182	Hypothetical protein
0484	AE008384_2181	Fructose-1,6-bisphosphatase
0484	AE008384_2181	Fructose-1,6-bisphosphatase
0485	AE008384_2180	GMP synthase [glutamine-hydrolyzing]
0486	AE008384_2179	Conserved protein
0487	AE008384_2178	Two component system histidine kinase
0488	AE008384_2177	F420-NONREDUCING HYDROGENASE III, SUBUNIT CYTOCHROME B
0489	AE008384_2176	F420-NONREDUCING HYDROGENASE III, LARGE SUBUNIT
0490	AE008384_2175	F420-NONREDUCING HYDROGENASE III PRECURSOR, SMALL SUBUNIT
0491	AE008384_2174	Conserved protein
0492	AE008384_2173	Conserved protein
0493	AE008384_2172	HYDROGENASE EXPRESSION/FORMATION PROTEIN
0494	AE008384_2171	F420-NONREDUCING HYDROGENASE II, SUBUNIT CYTOCHROME B
0494	AE008384_2171	F420-NONREDUCING HYDROGENASE II, SUBUNIT CYTOCHROME B
0494	AE008384_2171	F420-NONREDUCING HYDROGENASE II, SUBUNIT CYTOCHROME B
0495	AE008384_2170	F420-NONREDUCING HYDROGENASE II, LARGE SUBUNIT
0496	AE008384_2169	F420-NONREDUCING HYDROGENASE II PRECURSOR
0497	AE008384_2167	Transposase
0498	AE008384_2164	Hydrogenase expression/formation protein
0499	AE008384_2163	Hydrogenase expression/formation protein
0500	AE008384_2162	Hypothetical protein
0500	AE008384_2162	Hypothetical protein
0501	AE008384_2161	Hypothetical protein
0502	AE008384_2159	Hypothetical protein
0503	AE008384_2158	DNA-directed RNA polymerase, subunit D
0503	AE008384_2158	DNA-directed RNA polymerase, subunit D
0504	AE008384_2157	SSU ribosomal protein S11P
0505	AE008384_2156	SSU ribosomal protein S4P
0506	AE008384_2155	SSU ribosomal protein S13P
0507	AE008384_2154	TRNA PSEUDOURIDINE SYNTHASE
0508	AE008384_2153	Cytidylate kinase
0509	AE008384_2152	Hypothetical protein
0510	AE008384_2151	Carbonic anhydrase
0511	AE008384_2150	Conserved protein
0512	AE008384_2149	Phosphoribosylaminoimidazole carboxylase
0513	AE008384_2148	Adenylate kinase
0514	AE008384_2147	PROTEIN TRANSLOCASE SUBUNIT SECY
0514	AE008384_2147	PROTEIN TRANSLOCASE SUBUNIT SECY
0515	AE008384_2146	LSU ribosomal protein L15P
0515	AE008384_2146	LSU ribosomal protein L15P
0516	AE008384_2145	LSU ribosomal protein L30P
0517	AE008384_2144	SSU ribosomal protein S5P
0518	AE008384_2143	LSU ribosomal protein L18P
0519	AE008384_2142	LSU ribosomal protein L19E
0520	AE008384_2141	LSU ribosomal protein L32E
0521	AE008384_2140	LSU ribosomal protein L6P
0522	AE008384_2139	SSU ribosomal protein S8P
0523	AE008384_2138	SSU ribosomal protein S14P
0524	AE008384_2137	LSU ribosomal protein L5P
0525	AE008384_2136	SSU ribosomal protein S4E
0526	AE008384_2134	LSU ribosomal protein L14P
0527	AE008384_2133	SSU ribosomal protein S17P

0528	AE008384_2132	RNaseP subunitP29
0529	AE008384_2131	Ribonuclease P protein subunit P29
0529	AE008384_2131	LSU ribosomal protein L29P
0530	AE008384_2130	SSU ribosomal protein S3P
0531	AE008384_2129	LSU ribosomal protein L22P
0532	AE008384_2128	SSU ribosomal protein S19P
0533	AE008384_2127	LSU ribosomal protein L2P
0534	AE008384_2126	LSU ribosomal protein L23P
0535	AE008384_2125	LSU ribosomal protein L4
0536	AE008384_2124	LSU ribosomal protein L3P
0537	AE008384_2123	Hypothetical protein
0538	AE008384_2122	PUTATIVE SERINE/THREONINE PROTEIN KINASE
0539	AE008384_2121	Hypothetical protein
0540	AE008384_2120	Hypothetical protein
0541	AE008384_2119	Hypothetical protein
0542	AE008384_2118	Hypothetical protein
0543	AE008384_2117	Hypothetical protein
0544	AE008384_2115	Protease HTPX homolog
0544	AE008384_2115	Protease HTPX homolog
0545	AE008384_2114	Hypothetical protein
0546	AE008384_2113	Hypothetical protein
0547	AE008384_2112	Hypothetical protein
0548	AE008384_2111	GALACTOSIDE-O-ACETYLTRANSFERASE
0549	AE008384_2110	Conserved protein
0550	AE008384_2109	Glycosyl transferase
0551	AE008384_2107	Glycosyl transferase
0552	AE008384_2106	Putative glycosyl transferase
0553	AE008384_2105	Putative glycosyl transferase
0554	AE008384_2103	Putative Methyltransferase
0555	AE008384_2102	Glycosyl Transferase
0556	AE008384_2101	Heteropolysaccharide repeat unit export protein
0557	AE008384_2100	Conserved protein
0558	AE008384_2098	Conserved protein
0559	AE008384_2097	Hypothetical protein
0560	AE008384_2096	UDP-N-Acetylglucosamine-1-phosphate transferase
0561	AE008384_2095	Hypothetical protein
0562	AE008384_2094	Indolepyruvate oxidoreductase, subunit
0563	AE008384_2093	Indolepyruvate oxidoreductase, subunit
0564	AE008384_2092	CODH nickel-insertion accessory protein (iron-sulfur protein)
0565	AE008384_2091	probable transport channel protein
0566	AE008384_2090	HTH DNA-binding protein
0567	AE008384_2089	CO DEHYDROGENASE/ACETYL-COA SYNTHASE ALPHA SUBUNIT
0568	AE008384_2088	CO DEHYDROGENASE/ACETYL-COA SYNTHASE EPSILON SUBUNIT
0569	AE008384_2087	CO DEHYDROGENASE/ACETYL-COA SYNTHASE BETA SUBUNIT
0570	AE008384_2086	CODH nickel-insertion accessory protein (iron-sulfur protein)
0571	AE008384_2085	CO DEHYDROGENASE/ACETYL-COA SYNTHASE DELTA SUBUNIT
0572	AE008384_2084	CO DEHYDROGENASE/ACETYL-COA SYNTHASE GAMMA SUBUNIT
0573	AE008384_2083	Orotidine 5'-phosphate decarboxylase
0574	AE008384_2082	DEOXYHYPUSINE SYNTHASE
0575	AE008384_2081	ABC transporter, ATP-binding protein
0576	AE008384_2080	Galactoside O-acetyltransferase
0577	AE008384_2079	Thioredoxin

0578	AE008384_2078	Conserved protein
0579	AE008384_2077	Conserved protein
0580	AE008384_2076	S-adenosylmethionine synthetase
0581	AE008384_2075	4-hydroxybenzoate octaprenyltransferase
0582	AE008384_2074	Conserved protein
0583	AE008384_2073	Quinolinate synthetase A
0584	AE008384_2072	putative dinucleotide-utilizing enzyme
0585	AE008384_2071	Conserved protein
0586	AE008384_2070	NICOTINATE-NUCLEOTIDE PYROPHOSPHORYLASE CARBOXYLATING
0587	AE008384_2069	Iron(III) dicitrate-binding protein
0587	AE008384_2069	Iron(III) dicitrate-binding protein
0588	AE008384_2068	Iron(III) dicitrate transport system permease protein
0589	AE008384_2067	Iron(III) dicitrate transport ATP-binding protein
0590	AE008384_2066	SSU ribosomal protein S15P
0591	AE008384_2065	Conserved protein
0592	AE008384_2064	Conserved protein
0593	AE008384_2063	Conserved protein
0594	AE008384_2062	Conserved protein
0595	AE008384_2061	Histidyl-tRNA synthetase
0596	AE008384_2060	HISTIDINOL-PHOSPHATE AMINOTRANSFERASE
0597	AE008384_2059	CbiB protein
0598	AE008384_2058	Hypothetical protein
0599	AE008384_2057	Cobalamin [5'-phosphate] synthase
0600	AE008384_2056	PUTATIVE NUCLEOTIDYLTRANSFERASE
0601	AE008384_2055	ABC transporter, ATP-binding protein
0602	AE008384_2054	ABC transporter, ATP-binding protein
0603	AE008384_2053	Conserved protein
0604	AE008384_2052	DIMETHYLAMINE CORRINOID PROTEIN
0605	AE008384_2051	Dimethylamine:corrinoid methyltransferase
0606	AE008384_2050	Dimethylamine:corrinoid methyltransferase (C-terminal domain)
0607	AE008384_2049	Trimethylamine:corrinoid methyltransferase
0608	AE008384_2048	Trimethylamine:Corrinoid Methyltransferase MttB (C-terminal domain)
0608	AE008384_2048	Trimethylamine:corrinoid methyltransferase (C-terminal domain)
0609	AE008384_2047	TRIMETHYLAMINE CORRINOID PROTEIN
0610	AE008384_2046	Trimethylamine Permease
0610	AE008384_2046	Trimethylamine Permease
0611	AE008384_2045	Conserved protein
0613	AE008384_2044	Conserved protein
0614	AE008384_2043	Hypothetical protein
0615	AE008384_2042	ARCHAEAL TRANSCRIPTIONAL REGULATOR
0616	AE008384_2041	Aspartate aminotransferase
0617	AE008384_2040	TRANSCRIPTIONAL REGULATORY PROTEIN, ASNC FAMILY
0618	AE008384_2039	SSU ribosomal protein S8E
0619	AE008384_2038	Conserved protein
0620	AE008384_2037	Conserved protein
0621	AE008384_2036	Conserved protein
0622	AE008384_2035	Orotate phosphoribosyltransferase
0623	AE008384_2034	Conserved protein
0624	AE008384_2033	STOMATIN LIKE-PROTEIN
0625	AE008384_2032	NODULATION PROTEIN
0625	AE008384_2032	NODULATION PROTEIN
0626	AE008384_2031	Hydrogenase expression/formation protein

0626	AE008384_2031	Hydrogenase expression/formation protein
0627	AE008384_2030	Amidotransferase hisH
0628	AE008384_2028	Hypothetical protein
0629	AE008384_2027	Hypothetical protein
0629	AE008384_2027	Hypothetical protein
0630	AE008384_2026	Hypothetical protein
0631	AE008384_2024	Conserved protein
0632	AE008384_2023	Conserved protein
0633	AE008384_2022	TRANSPORTER, LysE family
0634	AE008384_2021	Conserved protein
0635	AE008384_2020	TWITCHING MOBILITY (PilT) related protein
0635	AE008384_2020	TWITCHING MOBILITY (PilT) related protein
0636	AE008384_2019	Phosphoribosyl-AMP cyclohydrolase
0637	AE008384_2018	Conserved protein
0638	AE008384_2017	Conserved protein
0639	AE008384_2016	HESB PROTEIN
0640	AE008384_2015	Hypothetical protein
0641	AE008384_2596	Hypothetical protein
0641	AE008384_2596	Hypothetical protein
0642	AE008384_2595	Hypothetical protein
0643	AE008384_2594	Hypothetical protein
0644	AE008384_2593	Hypothetical protein
0645	AE008384_2592	Hypothetical protein
0646	AE008384_2591	Hypothetical protein
0647	AE008384_2588	Transposase
0648	AE008384_2587	Surface layer protein (putative)
0649	AE008384_2586	Sec-independent protein translocase, protein
0650	AE008384_2585	Sec-independent protein translocase, protein
0651	AE008384_2584	Sec-independent protein translocase protein tata
0652	AE008384_2583	Sec-independent protein translocase, protein
0653	AE008384_2582	Hypothetical protein
0654	AE008384_2581	Pyruvate formate-lyase activating enzyme related protein
0655	AE008384_2579	Transposase
0656	AE008384_2578	Ferrous iron transport protein A
0657	AE008384_2577	Ferrous iron transport protein A
0658	AE008384_2576	Ferrous iron transport protein B
0659	AE008384_2575	Hypothetical protein
0660	AE008384_2573	Iron dependent transcriptional repressor
0661	AE008384_2572	METHYLTRANSFERASE
0662	AE008384_2571	ABC transporter, ATP-binding protein
0663	AE008384_2570	ABC transporter, ATP-binding protein
0664	AE008384_2569	ABC transporter, permease protein
0664	AE008384_2569	ABC transporter, permease protein
0665	AE008384_2568	ABC transporter, permease protein
0666	AE008384_2567	ABC transporter, periplasmic binding protein
0666	AE008384_2567	ABC transporter, periplasmic binding protein
0668	AE008384_2566	CODH nickel-insertion accessory protein
0668	AE008384_2566	CODH nickel-insertion accessory protein
0669	AE008384_2565	Pyruvate formate-lyase activating enzyme
0669	AE008384_2565	Pyruvate formate-lyase activating enzyme
0670	AE008384_2564	Hypothetical protein
0671	AE008384_2563	Ferredoxin

0672	AE008384_2562	Hypothetical protein
0673	AE008384_2561	Conserved hypothetical protein
0674	AE008384_2560	Hypothetical protein
0675	AE008384_2559	Hypothetical protein
0675	AE008384_2559	Hypothetical protein
0676	AE008384_2558	Hypothetical protein
0677	AE008384_2557	Catalase
0678	AE008384_2556	ATP-dependent RNA helicase
0679	AE008384_2555	Hypothetical protein
0680	AE008384_2554	Acetyltransferase
0681	AE008384_2553	Putative hydrolase
0682	AE008384_2552	Hypothetical protein
0683	AE008384_2551	Acetyltransferase
0684	AE008384_2550	Hypothetical protein
0685	AE008384_2549	Conserved hypothetical protein
0686	AE008384_2548	Hypothetical protein
0688	AE008384_2546	Conserved hypothetical protein
0689	AE008384_2545	Hypothetical protein
0690	AE008384_2542	PHOSPHOHYDROLASE (MUTT/NUDIX family protein)
0691	AE008384_2541	Cation-transporting ATPase
0692	AE008384_2540	Conserved hypothetical protein
0693	AE008384_2539	Dimethyladenosine transferase
0694	AE008384_2538	Conserved hypothetical protein
0695	AE008384_2537	Hypothetical protein
0696	AE008384_2536	LSU ribosomal protein L21E
0697	AE008384_2535	Conserved hypothetical protein
0698	AE008384_2534	Conserved hypothetical protein
0699	AE008384_2533	Hypothetical protein
0700	AE008384_2532	Hypothetical protein
0701	AE008384_2531	Hypothetical protein
0703	AE008384_2529	Hypothetical protein
0704	AE008384_2528	N2,N2-dimethylguanosine tRNA methyltransferase
0705	AE008384_2527	Hypothetical protein
0705	AE008384_2527	Hypothetical protein
0706	AE008384_2526	Conserved protein
0707	AE008384_2525	hypothetical protein
0708	AE008384_2524	Phage shock protein A
0709	AE008384_2523	Hypothetical protein
0710	AE008384_2522	Universal stress protein
0711	AE008384_2520	Conserved protein
0712	AE008384_2519	GTP-binding protein homolog
0713	AE008384_2518	Sensory transduction histidine kinases
0714	AE008384_2517	Thiamine biosynthesis protein
0715	AE008384_2516	Probable transcriptional regulator
0716	AE008384_2515	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
0717	AE008384_2514	Archaeal protein Translation Elongation Factor 1, subunit beta
0718	AE008384_2512	1-pyrroline-5-carboxylate synthetase
0719	AE008384_2511	Hypothetical protein
0720	AE008384_2510	Hypothetical protein
0722	AE008384_2508	Heat shock protein
0724	AE008384_2506	GrpE protein
0725	AE008384_2505	Chaperone protein

0726	AE008384_2504	Chaperone protein DnaJ
0727	AE008384_2503	Trk system potassium uptake protein TrkA
0728	AE008384_2502	Trk system potassium uptake protein
0729	AE008384_2501	Trk system potassium uptake protein
0730	AE008384_2500	Trk system potassium uptake protein
0731	AE008384_2499	Geranylgeranyl reductase
0732	AE008384_2498	Conserved protein
0733	AE008384_2497	Hypothetical protein
0734	AE008384_2496	Biotin synthase / thiamine biosynthesis enzyme
0735	AE008384_2495	Biotin synthase / thiamine biosynthesis enzyme
0736	AE008384_2494	Biotin synthase / thiamine biosynthesis enzyme
0737	AE008384_2493	Oxidoreductase (hypothetical)
0738	AE008384_2491	F420H2 dehydrogenase, subunitA
0739	AE008384_2490	F420H2 dehydrogenase, subunitB
0740	AE008384_2489	F420H2 dehydrogenase, subunitC
0741	AE008384_2488	F420H2 dehydrogenase, subunitD
0742	AE008384_2487	F420H2 dehydrogenase, subunitH
0743	AE008384_2486	F420H2 dehydrogenase, subunitI
0744	AE008384_2485	F420H2 dehydrogenase, subunitJ1
0745	AE008384_2484	F420H2 dehydrogenase, subunitJ2
0746	AE008384_2483	F420H2 dehydrogenase, subunitK
0747	AE008384_2482	F420H2 dehydrogenase, subunitL
0748	AE008384_2481	F420H2 dehydrogenase, subunitM
0749	AE008384_2480	F420H2 dehydrogenase, subunitN
0750	AE008384_2479	F420h2 dehydrogenase, subunitO
0751	AE008384_2478	Chloride channel (putative)
0752	AE008384_2477	Hypothetical protein
0753	AE008384_2476	Ribosomal-protein-alanine acetyltransferase
0754	AE008384_2475	Hypothetical protein
0755	AE008384_2474	Ribosomal-protein-alanine acetyltransferase
0756	AE008384_2473	Hypothetical protein
0756	AE008384_2473	Hypothetical protein
0757	AE008384_2472	NUCLEOTIDYLTRANSFERASE
0758	AE008384_2471	Hypothetical protein
0759	AE008384_2470	Surface layer protein (putative)
0762	AE008384_2468	Metallo cofactor biosynthesis protein (moaA/ nifB /pqqE family)
0763	AE008384_2893	Hypothetical protein
0764	AE008384_2891	ABC transporter, permease protein
0764	AE008384_2891	ABC transporter, permease protein
0765	AE008384_2889	Hypothetical protein
0766	AE008384_2888	Endonuclease III
0767	AE008384_2887	Conserved protein
0768	AE008384_2886	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
0769	AE008384_2885	Metalloendopeptidases (putative)
0770	AE008384_2884	Conserved protein
0771	AE008384_2883	Hypothetical protein
0772	AE008384_2882	Conserved protein
0773	AE008384_2881	Sensor histidine kinase/response regulator
0774	AE008384_2880	Response regulator
0775	AE008384_2879	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
0776	AE008384_2878	Hypothetical protein
0776	AE008384_2878	Hypothetical protein

0777	AE008384_2877	Hypothetical protein
0778	AE008384_2876	DNA polymerase IV
0779	AE008384_2875	Hypothetical protein
0781	AE008384_1016	Putative ribosomal-protein-alanine acetyltransferase
0782	AE008384_1017	Conserved protein
0783	AE008384_1018	Conserved protein
0784	AE008384_1019	Iron-sulfur cluster-binding protein
0785	AE008384_1020	O6-methylguanine-DNA methyltransferase
0785	AE008384_1020	O6-methylguanine-DNA methyltransferase
0786	AE008384_1022	Conserved protein
0787	AE008384_1023	Conserved protein
0788	AE008384_1024	Conserved protein
0791	AE008384_1026	Dolichol-phosphate mannosyltransferase
0792	AE008384_1027	Transcription initiation factor TFIIB
0793	AE008384_1028	Transcription initiation factor TFIIB
0794	AE008384_1029	Hypothetical protein
0795	AE008384_1030	Conserved protein
0796	AE008384_1031	Chromosome partition protein
0797	AE008384_1032	Conserved protein
0798	AE008384_1033	Ferrous iron transport protein B
0799	AE008384_1034	Transcriptional repressor
0800	AE008384_1035	Amino-acid acetyltransferase
0801	AE008384_1036	BIOY PROTEIN
0802	AE008384_1037	Cobalt transporter, ATP-binding protein
0803	AE008384_1038	Cobalt transporter, ATP-binding protein
0804	AE008384_1039	Cobalt transport protein
0805	AE008384_1040	Predicted transcriptional regulator
0806	AE008384_1041	Transporter
0807	AE008384_1042	Transcriptional regulator
0808	AE008384_1043	Transposase
0809	AE008384_1044	Transposase
0810	AE008384_1045	Branched-chain amino acid aminotransferase
0811	AE008384_1046	Molybdopterin biosynthesis protein
0812	AE008384_1047	GTP-binding protein
0813	AE008384_1048	D-alanine-D-alanine ligase related protein
0814	AE008384_1049	Arsenite permease
0815	AE008384_1052	Conserved protein
0816	AE008384_1053	Putative Sensory protein
0817	AE008384_1054	SURFACE LAYER PROTEIN B
0818	AE008384_1055	TRIMETHYLAMINE CORRINOID PROTEIN
0819	AE008384_1056	Putative ATP-dependent Na ⁺ efflux pump
0820	AE008384_1057	ABC transporter, ATP-binding protein
0821	AE008384_1058	N-5-phosphoribosylamino)uracil reductase
0822	AE008384_1059	Formate hydrogenlyase subunit 3
0823	AE008384_1060	Formate hydrogenlyase subunit 4
0824	AE008384_1061	Hydrogenase-4 component E
0825	AE008384_1062	Hydrogenase-4 component F
0826	AE008384_1063	Formate hydrogenlyase subunit 5 precursor
0827	AE008384_1064	Formate hydrogenlyase subunit 7
0828	AE008384_1067	Conserved protein
0829	AE008384_1068	Two-component response regulator
0830	AE008384_1069	Cation-transporting ATPase

0831	AE008384_1070	Methylcobalamin: Coenzyme M Methyltransferase
0832	AE008384_1071	Conserved protein
0833	AE008384_1072	Conserved protein
0836	AE008384_1074	Methanol:corrinoid methyltransferase
0837	AE008384_1075	putative regulatory protein
0838	AE008384_1076	Cation efflux system protein
0839	AE008384_1077	Conserved protein
0840	AE008384_1078	Conserved protein
0841	AE008384_1079	Conserved protein
0842	AE008384_1080	Conserved protein
0843	AE008384_1081	Conserved protein
0844	AE008384_1082	GTP-binding protein
0845	AE008384_1083	Undecaprenyl pyrophosphate synthetase
0846	AE008384_1084	Hypothetical protein
0847	AE008384_1085	Conserved protein
0848	AE008384_1086	METAL DEPENDENT HYDROLASE
0849	AE008384_1087	ABC transporter, ATP-binding protein
0850	AE008384_1088	ABC transporter, ATP-binding protein
0851	AE008384_1089	Putative DNA integration/recombination/inversion protein
0852	AE008384_1090	Putative DNA integration/recombination/inversion protein
0853	AE008384_1091	Thiol-disulfide isomerase/thioredoxin related protein
0854	AE008384_1092	Thiol-disulfide isomerase/thioredoxin related protein
0855	AE008384_1093	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
0856	AE008384_1094	Putative transcriptional regulator
0857	AE008384_1095	Iron-sulfur-binding protein
0858	AE008384_1096	Thermosome, gamma subunit
0859	AE008384_1097	Conserved protein
0860	AE008384_1098	Conserved protein
0861	AE008384_1100	Hypothetical protein
0862	AE008384_1101	Archaeosine tRNA-ribosyltransferase
0863	AE008384_1103	Hypothetical protein
0864	AE008384_1104	Oxidoreductase (flavoprotein)
0865	AE008384_1105	Metallo cofactor biosynthesis protein (moaA/ nifB /pqqE family)
0866	AE008384_1106	Putative phosphoserine phosphatase
0867	AE008384_1107	Putative phosphoserine phosphatase
0868	AE008384_1108	F420-dependent methylenetetrahydromethanopterin dehydrogenase
0869	AE008384_1109	Conserved protein
0870	AE008384_1110	Conserved protein
0871	AE008384_1111	Thymidylate kinase
0872	AE008384_1112	Conserved protein
0873	AE008384_1113	Phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase
0874	AE008384_1114	Conserved protein
0875	AE008384_1115	Conserved protein
0875	AE008384_1115	Conserved protein
0876	AE008384_1116	Hypothetical protein
0877	AE008384_1117	Polysaccharide deacetylase
0878	AE008384_1118	Conserved protein
0879	AE008384_1119	Conserved protein
0880	AE008384_1120	Conserved protein
0881	AE008384_1121	Glycosyl transferase
0882	AE008384_1122	OXIDOREDUCTASE
0883	AE008384_1123	Hypothetical protein

0884	AE008384_1124	O-antigen translocase
0884	AE008384_1124	O-antigen translocase
0885	AE008384_1125	Conserved protein
0886	AE008384_1126	GLYCOSYL TRANSFERASE
0887	AE008384_1127	Glycosyl transferase
0888	AE008384_1128	Conserved protein
0889	AE008384_1129	Conserved protein
0890	AE008384_1131	Hypothetical protein
0890	AE008384_1131	Hypothetical protein
0891	AE008384_1132	UDP-glucose 6-dehydrogenase
0892	AE008384_1133	UTP--glucose-1-phosphate uridylyltransferase
0893	AE008384_1134	UDP-glucose 4-epimerase
0894	AE008384_1135	Transporter
0895	AE008384_1136	Disaggregase-like protein
0895	AE008384_1136	Disaggregase-like protein
0896	AE008384_1137	GLYCOSYL TRANSFERASE
0897	AE008384_1138	GLYCOSYL TRANSFERASE
0898	AE008384_1139	Dolichyl-phosphate mannose synthase related protein
0899	AE008384_1140	Dolichyl-phosphate mannose synthase related protein
0900	AE008384_1141	GLYCOSYL TRANSFERASE
0901	AE008384_1142	GLYCOSYL TRANSFERASE
0902	AE008384_1143	GLYCOSYL TRANSFERASE
0903	AE008384_1144	Disaggregase
0904	AE008384_1145	Conserved protein
0914	AE008384_1245	Conserved protein
0915	AE008384_1244	Methyl-coenzyme M reductase, beta subunit
0915	AE008384_1244	Methyl-coenzyme M reductase, beta subunit
0916	AE008384_1243	Methyl-coenzyme M reductase operon protein D
0917	AE008384_1242	Methyl-coenzyme M reductase operon protein C
0918	AE008384_1241	Methyl-coenzyme M reductase, gamma subunit
0919	AE008384_1240	Methyl-coenzyme M reductase, alpha subunit
0920	AE008384_1239	METHYLTRANSFERASE
0921	AE008384_1238	3-phosphoshikimate 1-carboxyvinyltransferase
0922	AE008384_1237	Thymidylate synthase
0923	AE008384_1236	PROTEASE HTPX
0924	AE008384_1235	5-methylcytosine-specific restriction enzyme
0925	AE008384_1234	Conserved protein
0926	AE008384_1233	Hypothetical protein
0927	AE008384_1232	Conserved protein
0928	AE008384_1231	SAM-dependent methyltransferases
0929	AE008384_1229	Nitrilase
0930	AE008384_1228	Glutamyl-tRNA (Gln) amidotransferase, subunit B
0931	AE008384_1227	Glutamyl-tRNA (Gln) amidotransferase, subunit A
0932	AE008384_1226	Glutamyl-tRNA (Gln) amidotransferase, subunit C
0933	AE008384_1225	Coenzyme F420 hydrogenase, beta subunit
0934	AE008384_1224	Conserved protein
0935	AE008384_1223	Conserved protein
0936	AE008384_1222	Conserved protein
0937	AE008384_1221	Chromosomal protein
0938	AE008384_1220	Acetylglutamate kinase
0939	AE008384_1219	Fe-S OXIDOREDUCTASE
0940	AE008384_1218	GMP synthase [glutamine-hydrolyzing]

0941	AE008384_1217	ATP-dependent DNA helicase
0942	AE008384_1216	Conserved protein
0943	AE008384_1215	HEXULOSE-6-PHOSPHATE SYNTHASE
0944	AE008384_1214	Conserved protein
0945	AE008384_1213	Aspartate carbamoyltransferase, catalytic subunit
0946	AE008384_1212	Aspartate carbamoyltransferase, regulatory subunit
0947	AE008384_1211	Conserved protein
0948	AE008384_1210	Conserved protein
0949	AE008384_1209	Conserved protein
0950	AE008384_1206	Conserved protein
0951	AE008384_1204	Conserved protein
0952	AE008384_1203	Conserved protein
0953	AE008384_1202	Dihydropicolinate reductase
0954	AE008384_1201	Dihydropicolinate synthase
0955	AE008384_1200	SSU ribosomal protein S17E
0956	AE008384_1199	Conserved protein
0958	AE008384_1197	Conserved protein
0959	AE008384_1196	Conserved protein
0960	AE008384_1195	Conserved protein
0961	AE008384_1194	Conserved protein
0962	AE008384_1193	dTDP-glucose 4,6-dehydratase
0963	AE008384_1192	Transposase
0964	AE008384_1191	dTDP-glucose 4,6-dehydratase
0965	AE008384_1190	Conserved protein
0966	AE008384_1189	Conserved protein
0967	AE008384_1186	Conserved protein
0968	AE008384_1185	Conserved protein
0970	AE008384_1184	Dolichyl-phosphate mannose synthase related protein
0971	AE008384_1183	Dolichyl-phosphate mannose synthase related protein
0972	AE008384_1182	GLYCOSYL TRANSFERASE
0973	AE008384_1181	Conserved protein
0974	AE008384_1180	OXIDOREDUCTASE
0975	AE008384_1179	GLYCOSYL TRANSFERASE
0976	AE008384_1178	GLYCOSYL TRANSFERASE
0977	AE008384_1177	GLYCOSYL TRANSFERASE
0978	AE008384_1175	Oligosaccharide repeat unit transporter
0979	AE008384_1172	UDP-N-acetyl-D-mannosamine 6-dehydrogenase
0980	AE008384_1170	UDP-N-acetylglucosamine 2-epimerase
0981	AE008384_1169	Glucose-1-phosphate thymidyltransferase
0982	AE008384_1168	dTDP-4-dehydrorhamnose reductase
0983	AE008384_1167	dTDP-glucose 4,6-dehydratase
0984	AE008384_1166	dTDP-4-dehydrorhamnose 3,5-epimerase
0985	AE008384_1165	Dolichyl-phosphate mannose synthase related protein
0986	AE008384_1164	hypothetical nucleotidyltransferase
0987	AE008384_1163	NUCLEOTIDYLTRANSFERASE
0988	AE008384_1162	UDP-N-acetylglucosamine 4-epimerase
0989	AE008384_2894	ABC transporter, ATP-binding protein
0990	AE008384_2895	Transcriptional regulator
0991	AE008384_2896	Hypothetical protein
0992	AE008384_2897	Pirin
0993	AE008384_2898	Conserved protein
0994	AE008384_2899	Conserved protein

0998	AE008384_2902	Transposase
0999	AE008384_2903	Transposase
1000	AE008384_2904	Transposase
1001	AE008384_2905	Transposase
1002	AE008384_2907	Pirin
1003	AE008384_2908	Hypothetical protein
1004	AE008384_2909	Conserved protein
1005	AE008384_2910	Adenine deaminase
1005	AE008384_2910	Adenine deaminase
1006	AE008384_2911	Phosphoserine aminotransferase
1007	AE008384_2912	5-oxoprolinase
1008	AE008384_2913	Conserved protein
1009	AE008384_2914	Conserved protein
1010	AE008384_2915	Hypothetical protein
1011	AE008384_2916	FLAVOREDOXIN
1012	AE008384_2917	OXIDOREDUCTASE, ALDO/KETO REDUCTASE FAMILY
1013	AE008384_2918	OXIDOREDUCTASE, ALDO/KETO REDUCTASE FAMILY
1014	AE008384_2919	Hypothetical protein
1015	AE008384_2920	Ribosomal-protein-alanine acetyltransferase
1016	AE008384_2921	Hypothetical protein
1017	AE008384_2923	Hypothetical protein
1018	AE008384_2924	Ribonuclease BN
1021	AE008384_2928	Hypothetical protein
1022	AE008384_2930	Hypothetical protein
1023	AE008384_2931	Hydrolase
1024	AE008384_2932	Conserved protein
1025	AE008384_2933	Conserved protein
1026	AE008384_2935	Hypothetical protein
1027	AE008384_2937	Conserved protein
1028	AE008384_2938	Conserved protein
1029	AE008384_2939	Serine O-acetyltransferase
1030	AE008384_2941	METAL DEPENDENT HYDROLASE
1031	AE008384_2942	Conserved protein
1032	AE008384_2943	Lipopolysaccharide N-acetylglucosaminyltransferase
1033	AE008384_2944	Conserved protein
1034	AE008384_2945	Mannosyltransferase
1035	AE008384_2946	Hypothetical protein
1036	AE008384_2947	Conserved protein
1037	AE008384_2948	Conserved protein
1038	AE008384_2949	Hypothetical protein
1039	AE008384_2950	Conserved protein
1040	AE008384_2951	Hypothetical protein
1041	AE008384_2952	Conserved protein
1042	AE008384_2953	Transcriptional regulator
1043	AE008384_2954	Transcriptional regulator
1044	AE008384_2955	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
1044	AE008384_2955	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
1046	AE008384_2956	Conserved protein
1048	AE008384_2958	Conserved protein
1049	AE008384_2959	Hypothetical protein
1050	AE008384_2960	Hypothetical protein
1051	AE008384_2961	Dimethylamine corrinoid protein

1052	AE008384_2962	Dimethylamine:corrinoid methyltransferase
1053	AE008384_2963	Dimethylamine:corrinoid methyltransferase (C-terminal domain)
1054	AE008384_2964	Dimethylamine permease
1055	AE008384_2965	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
1056	AE008384_2966	Conserved protein
1057	AE008384_2967	Isoleucyl-tRNA synthetase
1058	AE008384_2968	Conserved protein
1059	AE008384_2972	Hypothetical protein
1060	AE008384_2973	Hypothetical protein
1061	AE008384_2974	Hypothetical protein
1062	AE008384_2975	Hypothetical protein
1063	AE008384_2976	TYPE I RESTRICTION-MODIFICATION SYSTEM RESTRICTION SUBUNIT
1064	AE008384_2977	Hypothetical protein
1064	AE008384_2977	Hypothetical protein
1065	AE008384_2978	TYPE I RESTRICTION-MODIFICATION SYSTEM SPECIFICITY SUBUNIT
1066	AE008384_2979	Hypothetical protein
1066	AE008384_2979	Hypothetical protein
1069	AE008384_3038	Transposase
1070	AE008384_3040	Hypothetical protein
1071	AE008384_3041	Hypothetical protein
1072	AE008384_3042	Coenzyme F420 hydrogenase, beta subunit
1073	AE008384_3043	Coenzyme F420 hydrogenase, gamma subunit
1074	AE008384_3044	Coenzyme F420 hydrogenase, delta subunit
1075	AE008384_3045	Coenzyme F420 hydrogenase, alpha subunit
1076	AE008384_3046	Conserved protein
1078	AE008384_3048	Hypothetical protein
1079	AE008384_3050	GLYCOSYL TRANSFERASE
1080	AE008384_3051	Hypothetical protein
1081	AE008384_3052	OXIDOREDUCTASE
1082	AE008384_3053	CapK protein
1083	AE008384_3056	Competence-like protein
1084	AE008384_3057	Hypothetical protein
1085	AE008384_3058	IRON-SULFUR FLAVOPROTEIN
1086	AE008384_3059	Conserved protein
1087	AE008384_3060	Hypothetical protein
1088	AE008384_3061	Hypothetical protein
1089	AE008384_3062	Hypothetical protein
1090	AE008384_3063	CALCIUM DEPENDENT PROTEASE
1091	AE008384_3064	Hypothetical protein
1092	AE008384_3065	Hypothetical protein
1093	AE008384_3066	FUMARATE HYDRATASE, ALPHA SUBUNIT
1094	AE008384_3067	FUMARATE HYDRATASE, BETA SUBUNIT
1095	AE008384_3068	Conserved protein
1096	AE008384_3069	Cation-transporting ATPase
1097	AE008384_3070	Hypothetical protein
1098	AE008384_3071	Putative membrane transport protein
1099	AE008384_3072	Hypothetical protein
1100	AE008384_3073	SURFACE LAYER PROTEIN B
1101	AE008384_3074	RNASE P RNA COMPONENT
1102	AE008384_3075	Hypothetical protein
1103	AE008384_3076	DNA topoisomerase I
1104	AE008384_3077	Probable transcriptional regulator

1105	AE008384_3078	mRNA 3'-end processing factor
1106	AE008384_3079	Hypothetical protein
1107	AE008384_3080	Hypothetical protein
1108	AE008384_3081	Serine/threonine protein kinases
1110	AE008384_3084	Protease I
1110	AE008384_3084	Protease I
1111	AE008384_3085	Cystathionine gamma-synthase
1112	AE008384_3086	Nicotinate phosphoribosyltransferase
1114	AE008384_3087	Hypothetical protein
1116	AE008384_425	HELICASE (DEAD/DEAH FAMILY)
1117	AE008384_426	RNase L inhibitor
1118	AE008384_427	Hypothetical protein
1119	AE008384_428	Conserved protein
1120	AE008384_429	TYPE I RESTRICTION-MODIFICATION SYSTEM METHYLATION SUBUNIT
1121	AE008384_430	TYPE I RESTRICTION-MODIFICATION SYSTEM SPECIFICITY SUBUNIT
1122	AE008384_431	TYPE I RESTRICTION-MODIFICATION SYSTEM RESTRICTION SUBUNIT
1123	AE008384_432	Transcriptional regulator, TetR/AcrR family
1124	AE008384_433	Conserved protein
1125	AE008384_434	Conserved protein
1126	AE008384_435	Conserved protein
1127	AE008384_436	Thioredoxin
1128	AE008384_437	Hypothetical protein
1129	AE008384_438	Methylenetetrahydrofolate reductase
1130	AE008384_439	ZINC-FINGER PROTEIN
1131	AE008384_440	Dihydropteroate synthase
1132	AE008384_441	Methylenetetrahydrofolate dehydrogenase (NADP+)/ methylenetetrahydrofolate cyclohydrolase
1133	AE008384_442	Serine hydroxymethyltransferase
1134	AE008384_443	Phosphoribosylglycinamide formyltransferase
1135	AE008384_444	HTH DNA-binding protein
1136	AE008384_445	Hypothetical protein
1137	AE008384_446	NAD ⁺ synthetase
1138	AE008384_447	Cell division control protein (AAA family ATPase)
1139	AE008384_448	Hypothetical protein
1140	AE008384_449	SAM-dependent methyltransferases
1141	AE008384_450	Conserved protein
1142	AE008384_451	Hypothetical protein
1143	AE008384_454	Hypothetical protein
1144	AE008384_455	Hypothetical protein
1145	AE008384_456	Hydrolase (HAD superfamily)
1146	AE008384_457	RECOMBINATION/REPAIR PROTEIN RADA
1147	AE008384_458	CYTIDYLYLTRANSFERASE
1148	AE008384_459	Conserved protein
1149	AE008384_460	Probable endonuclease IV
1150	AE008384_461	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase
1151	AE008384_462	Cobalt transport ATP-binding protein
1152	AE008384_463	Cobalt transport protein
1153	AE008384_464	Cobalt transport protein
1154	AE008384_465	Cobalamin biosynthesis protein CbiM
1155	AE008384_466	CbiM protein
1156	AE008384_467	Conserved protein
1157	AE008384_468	Conserved protein
1158	AE008384_469	Hypothetical protein

1159	AE008384_471	tRNA nucleotidyltransferase
1160	AE008384_472	8-OXOGUANINE DNA GLYCOSYLASE
1161	AE008384_473	Glucokinase
1161	AE008384_473	ADP-dependent phosphofructokinase
1162	AE008384_474	Glutamate N-acetyltransferase / Amino-acid acetyltransferase
1163	AE008384_475	Putative inosine-5'-monophosphate dehydrogenase
1163	AE008384_475	Putative inosine-5'-monophosphate dehydrogenase
1164	AE008384_476	N-acetyl-gamma-glutamyl-phosphate reductase
1165	AE008384_477	Hypothetical protein
1166	AE008384_478	Hypothetical protein
1167	AE008384_481	Acetyltransferase
1167	AE008384_481	Acetyltransferase
1169	AE008384_483	Small heat shock protein
1170	AE008384_484	Hypothetical protein
1171	AE008384_485	Phosphoglycerate kinase
1172	AE008384_486	DNA polymerase
1173	AE008384_487	Heat shock protein
1174	AE008384_488	Ferredoxin
1175	AE008384_489	Ferredoxin
1176	AE008384_490	Phycocyanin alpha-subunit phycocyanobilin lyase
1177	AE008384_491	Conserved protein
1178	AE008384_492	Conserved protein
1179	AE008384_493	Acetyl-CoA synthetase, beta subunit
1180	AE008384_495	Acetate kinase
1181	AE008384_496	Phosphate acetyltransferase
1182	AE008384_497	IRON-SULFUR FLAVOPROTEIN
1183	AE008384_498	Putative chloride channel protein
1184	AE008384_500	Hypothetical protein
1185	AE008384_501	3-demethylubiquinone-9 3-methyltransferase
1186	AE008384_502	Translation initiation inhibitor
1187	AE008384_503	Hypothetical protein
1188	AE008384_504	Phycocyanin alpha-subunit phycocyanobilin lyase (CpCE/NbIB family)
1189	AE008384_505	Methylcobalamin:Coenzyme M methyltransferase MtbA
1190	AE008384_506	Conserved protein
1191	AE008384_507	Conserved protein
1192	AE008384_508	Isoleucyl-tRNA synthetase
1194	AE008384_510	GTP-binding protein
1195	AE008384_511	Conserved protein
1196	AE008384_512	tRNA-intron endonuclease
1197	AE008384_513	Cobyrinic acid a,c-diamide synthase
1198	AE008384_514	NITROGENASE IRON PROTEIN 2
1199	AE008384_515	Conserved protein
1199	AE008384_515	Conserved protein
1200	AE008384_516	Hypothetical protein
1201	AE008384_517	Conserved protein
1202	AE008384_518	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
1203	AE008384_519	Hypothetical protein
1204	AE008384_520	Hypothetical protein
1205	AE008384_522	Transposase
1206	AE008384_524	Hypothetical protein
1207	AE008384_525	Hypothetical protein
1208	AE008384_526	Hypothetical protein

1209	AE008384_527	Conserved protein
1210	AE008384_528	Hypothetical protein
1211	AE008384_529	HYDROLASE
1212	AE008384_530	Amino acid permease
1213	AE008384_531	Conserved protein
1214	AE008384_532	Hypothetical protein
1215	AE008384_533	Conserved protein
1216	AE008384_534	Conserved protein
1217	AE008384_535	Hypothetical protein
1218	AE008384_536	Hypothetical protein
1219	AE008384_537	Hypothetical protein
1220	AE008384_540	Conserved protein
1221	AE008384_541	Conserved protein
1222	AE008384_542	Hypothetical protein
1223	AE008384_544	Exoribonuclease II
1224	AE008384_546	Conserved protein
1224	AE008384_546	Conserved protein
1226	AE008384_549	Conserved protein
1227	AE008384_550	Hypothetical protein
1228	AE008384_551	Hypothetical protein
1229	AE008384_552	Hypothetical protein
1231	AE008384_928	Conserved protein
1232	AE008384_929	Glutathione-regulated potassium-efflux system protein
1233	AE008384_930	Nitrogen regulatory protein P-II
1234	AE008384_931	Hypothetical protein
1235	AE008384_932	Hypothetical protein
1236	AE008384_933	Glutathione-regulated potassium-efflux system protein
1237	AE008384_934	LYSINE 2,3-AMINOMUTASE
1238	AE008384_935	Beta-lysine acetyltransferase
1239	AE008384_936	Conserved protein
1240	AE008384_937	PUTATIVE FLAGELLA-RELATED PROTEIN J
1241	AE008384_938	PUTATIVE FLAGELLA RELATED PROTEIN FlaI
1242	AE008384_939	Putative flagella-related protein H
1243	AE008384_940	putative Flavoprotein
1244	AE008384_941	Adenylosuccinate lyase
1246	AE008384_943	GERANYLGERANYLGLYCERYL DIPHOSPHATE SYNTHASE
1247	AE008384_944	METHYL COENZYME M REDUCTASE SYSTEM, COMPONENT A2 HOMOLOG
1248	AE008384_945	IRON-SULFUR FLAVOPROTEIN
1249	AE008384_946	PUTATIVE NADPH-FLAVIN OXIDOREDUCTASE
1250	AE008384_947	Conserved protein
1251	AE008384_948	Sensory transduction histidine kinases
1252	AE008384_949	Hypothetical protein
1253	AE008384_950	ABC transporter, ATP-binding protein
1254	AE008384_951	ABC transporter, permease protein
1255	AE008384_952	Hypothetical protein
1256	AE008384_953	ABC transporter, ATP-binding protein
1257	AE008384_955	ABC transporter, permease protein
1258	AE008384_956	ABC transporter, ATP-binding protein
1259	AE008384_957	Ammonium transporter
1260	AE008384_958	Nitrogen regulatory protein P-II
1261	AE008384_959	Conserved protein
1262	AE008384_960	Small heat shock protein

1263	AE008384_961	Putative small heat shock protein
1263	AE008384_961	Putative small heat shock protein
1264	AE008384_962	Conserved protein
1265	AE008384_963	Integral Membrane protein
1266	AE008384_964	Glutamine synthetase
1267	AE008384_966	Glutamate synthase, large chain
1268	AE008384_967	Glutamate synthase, large chain
1269	AE008384_968	Glutamate synthase, large chain
1270	AE008384_969	Coenzyme F420 hydrogenase beta subunit
1271	AE008384_970	Hypothetical protein
1272	AE008384_971	Hypothetical protein
1273	AE008384_972	Conserved protein
1274	AE008384_973	Conserved protein
1275	AE008384_974	Xaa-Pro aminopeptidase
1276	AE008384_975	Conserved protein
1277	AE008384_976	Protease (putative)
1277	AE008384_976	Protease (putative)
1278	AE008384_977	F420-dependent NADP reductase
1279	AE008384_979	HETERODISULFIDE REDUCTASE, SUBUNIT HDRC
1280	AE008384_980	HETERODISULFIDE REDUCTASE, SUBUNIT HDRB
1281	AE008384_981	Iron-sulfur binding protein
1283	AE008384_983	Conserved protein
1284	AE008384_984	Conserved protein
1285	AE008384_985	Conserved protein
1286	AE008384_986	Conserved protein
1287	AE008384_987	Conserved protein
1288	AE008384_988	Conserved protein
1289	AE008384_989	HTH DNA-binding protein
1290	AE008384_990	Nucleotide-binding protein
1291	AE008384_991	Thiol-disulfide isomerase/thioredoxin
1291	AE008384_991	Thiol-disulfide isomerase/thioredoxin
1292	AE008384_992	Cytochrome c-type biogenesis protein
1293	AE008384_994	Precorrin-8X methylmutase
1294	AE008384_995	Precorrin-3B C17-methyltransferase
1295	AE008384_996	COBALAMIN BIOSYNTHESIS PROTEIN G
1295	AE008384_996	COBALAMIN BIOSYNTHESIS PROTEIN G
1296	AE008384_997	Putative small heat shock protein
1296	AE008384_997	COBALAMIN BIOSYNTHESIS PROTEIN G
1297	AE008384_998	Precorrin-4 C11-methyltransferase
1298	AE008384_999	Serine/threonine protein kinase
1298	AE008384_999	Precorrin-2 C20-methyltransferase
1299	AE008384_1000	Precorrin-6Y C5,15-methyltransferase [decarboxylating]
1300	AE008384_1002	2-isopropylmalate synthase
1301	AE008384_1003	Isocitrate dehydrogenase [NADP]
1302	AE008384_1004	Putative molybdenum cofactor biosynthesis protein
1303	AE008384_1005	Zinc finger protein
1304	AE008384_1006	26S PROTEASOME REGULATORY SUBUNIT RPT2/S4
1305	AE008384_1007	Conserved protein
1306	AE008384_1008	Cell division protein
1307	AE008384_1009	PROTEIN TRANSLOCASE SUBUNIT SECE
1308	AE008384_1010	Putative transcription antitermination protein nusG
1309	AE008384_1011	LSU ribosomal protein L11P

1310	AE008384_1012	LSU ribosomal protein L1P
1311	AE008384_1013	LSU ribosomal protein L10P
1312	AE008384_1014	LSU ribosomal protein L12AE
1313	AE008384_1015	Molybdenum cofactor biosynthesis enzyme (Fe-S oxidoreductase family)
1314	AE008384_3355	Conserved protein
1314	AE008384_3355	Conserved protein
1315	AE008384_3356	Hypothetical protein
1316	AE008384_3357	Hypothetical protein
1317	AE008384_3358	Hypothetical protein
1318	AE008384_3359	Conserved protein
1319	AE008384_3360	Hypothetical protein
1320	AE008384_2014	TRANSLATION INITIATION FACTOR 1A (EIF-1A)
1321	AE008384_2013	Serine/threonine protein kinase
1322	AE008384_2012	Putative RNA-binding protein
1323	AE008384_2011	Dihydroorotase
1324	AE008384_2010	Phosphate transport system protein
1325	AE008384_2009	Phosphate transporter, ATP-binding protein
1326	AE008384_2008	Phosphate transporter, permease protein
1327	AE008384_2007	Phosphate transporter, permease protein
1328	AE008384_2006	Phosphate transporter, permease protein
1329	AE008384_2005	Phosphate-binding protein
1330	AE008384_2004	DNA polymerase delta catalytic subunit
1331	AE008384_2003	Magnesium-chelatase subunit
1332	AE008384_2002	Conserved protein
1333	AE008384_2001	Hypothetical protein
1334	AE008384_2000	Hypothetical protein
1335	AE008384_1999	Hypothetical protein
1336	AE008384_1998	Cobalamin biosynthesis protein
1337	AE008384_1997	Conserved protein
1338	AE008384_1996	Cobalt transport ATP-binding protein
1339	AE008384_1995	Cobalt transport protein
1340	AE008384_1994	ABC transporter ATP-binding protein
1341	AE008384_1993	ABC transporter, ATP-binding protein
1341	AE008384_1993	ABC transporter, permease protein
1342	AE008384_1991	Hypothetical protein
1343	AE008384_1990	Hypothetical protein
1344	AE008384_1989	Hypothetical protein
1345	AE008384_1988	Conserved protein
1346	AE008384_1987	Hypothetical protein
1347	AE008384_1986	Regulatory protein (putative)
1348	AE008384_1985	Hypothetical Cytosolic protein
1349	AE008384_1984	Hypothetical Cytosolic protein
1350	AE008384_1983	Conserved protein
1351	AE008384_1982	Alkyl sulfatase
1352	AE008384_1981	TUNGSTEN FORMYLMETHANOFURAN DEHYDROGENASE, SUBUNIT D
1353	AE008384_1980	TUNGSTEN FORMYLMETHANOFURAN DEHYDROGENASE, SUBUNIT B
1354	AE008384_1979	TUNGSTEN FORMYLMETHANOFURAN DEHYDROGENASE, SUBUNIT A
1355	AE008384_1978	TUNGSTEN FORMYLMETHANOFURAN DEHYDROGENASE, SUBUNIT C
1356	AE008384_1977	Conserved protein
1357	AE008384_1976	Conserved protein
1358	AE008384_1975	Conserved protein
1359	AE008384_1974	HISTONE ACETYLTRANSFERASE (ELP3 faminly)

1359	AE008384_1974	HISTONE ACETYLTRANSFERASE (ELP3 family)
1360	AE008384_1973	Conserved protein
1361	AE008384_1971	Conserved protein
1362	AE008384_1970	Single-stranded-DNA-specific exonuclease recJ
1363	AE008384_1969	Hypothetical protein
1364	AE008384_1968	Hypothetical protein
1365	AE008384_1967	Hypothetical protein
1366	AE008384_1966	Malate dehydrogenase
1367	AE008384_1965	Hypothetical protein
1368	AE008384_1964	hypothetical protein
1369	AE008384_1963	Tyrosyl-tRNA synthetase
1370	AE008384_1962	Conserved protein
1371	AE008384_1961	Hypothetical protein
1371	AE008384_1961	Hypothetical protein
1372	AE008384_1960	Conserved protein
1373	AE008384_1959	Hypothetical protein
1374	AE008384_1958	Hit-like protein, involved in cell-cycle regulation
1375	AE008384_1957	Hypothetical Transcriptional Regulatory protein
1376	AE008384_1956	Hypothetical protein
1377	AE008384_1955	Cysteine desulfurase NifS
1378	AE008384_1954	NifU protein
1379	AE008384_1953	Cobalt-zinc-cadmium resistance protein
1380	AE008384_1952	Cobalt-zinc-cadmium resistance protein
1381	AE008384_1950	Catalase
1382	AE008384_1949	METHYLTRANSFERASE
1383	AE008384_1948	OXIDOREDUCTASE, ALDO/KETO REDUCTASE FAMILY
1384	AE008384_1947	Integral membrane protein
1385	AE008384_1946	GLYCOSYL TRANSFERASE
1386	AE008384_1945	Hypothetical protein
1387	AE008384_1944	Transporter
1388	AE008384_1943	Conserved protein
1389	AE008384_1942	POLYPRENYLTRANSFERASE
1390	AE008384_1941	Glutamine transporter, ATP-binding protein
1391	AE008384_1940	Glutamine transporter, permease protein
1392	AE008384_1939	Glutamine-binding protein
1393	AE008384_1938	Hypothetical protein
1394	AE008384_1937	Hypothetical protein
1395	AE008384_1936	Conserved protein
1396	AE008384_1935	Acetyltransferase
1397	AE008384_1934	Hypothetical protein
1398	AE008384_1933	Integral membrane protein
1399	AE008384_1932	Methylcobalamin:coenzyme M methyltransferase
1400	AE008384_1931	Sensory Transduction protein Kinase
1401	AE008384_1930	Transposase
1402	AE008384_1929	Hypothetical protein
1403	AE008384_1928	PHOSPHINOTHRICIN ACETYLTRANSFERASE
1404	AE008384_1927	Cell surface glycoprotein
1405	AE008384_1926	Hypothetical protein
1406	AE008384_1925	hypothetical protein
1407	AE008384_1923	Hypothetical protein
1408	AE008384_1922	Hypothetical protein
1409	AE008384_1921	Hypothetical protein

1410	AE008384_1920	NUCLEOTIDYLTRANSFERASE
1411	AE008384_1919	Hypothetical protein
1412	AE008384_1918	Hypothetical protein
1413	AE008384_1917	ATP-dependent RNA helicase
1414	AE008384_1916	Lysyl-tRNA synthetase, class II
1415	AE008384_1915	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
1416	AE008384_1914	Hypothetical protein
1417	AE008384_1913	ATP-dependent protease La
1418	AE008384_1912	Hypothetical protein
1419	AE008384_1911	Cysteinyl-tRNA synthetase
1420	AE008384_1910	Maf protein
1421	AE008384_1909	Glutathione-regulated potassium-efflux system protein
1421	AE008384_1909	Glutathione-regulated potassium-efflux system protein
1422	AE008384_1908	Hypothetical protein
1423	AE008384_1907	Isochorismatase
1424	AE008384_1906	Conserved protein
1425	AE008384_1905	Hypothetical membrane spanning protein
1425	AE008384_1905	Hypothetical membrane spanning protein
1427	AE008384_1904	Hypothetical protein
1428	AE008384_1903	Transcriptional regulator, MarR family
1429	AE008384_1902	Hypothetical protein
1430	AE008384_1901	Hypothetical protein
1431	AE008384_1900	Hypothetical protein
1432	AE008384_1899	Hypothetical protein
1433	AE008384_1898	Potassium channel protein
1434	AE008384_1897	Hypothetical protein
1435	AE008384_1896	Phenylacetic acid degradation protein
1436	AE008384_1895	ATP-dependent DNA ligase
1437	AE008384_1894	DNA polymerase beta
1441	AE008384_687	Nitrogenase iron protein
1442	AE008384_688	CO DEHYDROGENASE/ACETYL-COA SYNTHASE DELTA SUBUNIT
1445	AE008384_788	Metallo cofactor biosynthesis protein (moaA/ nifB /pqqE family
1446	AE008384_789	Geranyltranstransferase/Farnesyltranstransferase/ Hexaprenyl diphosphate synthase
1447	AE008384_790	Hypothetical protein
1450	AE008384_794	ADP-ribosylglycohydrolase
1451	AE008384_795	Hypothetical protein
1452	AE008384_796	Hypothetical protein
1453	AE008384_797	Hypothetical protein
1454	AE008384_798	26S PROTEASOME REGULATORY SUBUNIT RPT2/S4
1455	AE008384_800	Hypothetical protein
1456	AE008384_801	Adenylosuccinate synthetase
1457	AE008384_802	SSU ribosomal protein S19E
1458	AE008384_803	Conserved protein
1459	AE008384_804	Hypothetical ATP-binding protein
1459	AE008384_804	Hypothetical ATP-binding protein
1460	AE008384_805	LSU ribosomal protein L39E
1461	AE008384_806	LSU ribosomal protein L31E
1462	AE008384_807	protein Translation Initiation Factor 6 (IF-6)
1463	AE008384_809	Prefoldin, alpha subunit
1464	AE008384_810	SIGNAL RECOGNITION PARTICLE, SUBUNIT Ffh/SRP54
1465	AE008384_811	Stress-responsive transcriptional regulator
1466	AE008384_812	Conserved protein

1467	AE008384_813	Conserved protein
1468	AE008384_814	Probable peroxiredoxin
1472	AE008384_712	Hypothetical protein
1472	AE008384_712	Hypothetical protein
1474	AE008384_3166	Hypothetical protein
1475	AE008384_3164	Conserved protein
1476	AE008384_3162	Hypothetical protein
1476	AE008384_3162	Hypothetical protein
1476	AE008384_3162	Hypothetical protein
1480	AE008384_3157	Putative 6-aminohexanoate-dimer hydrolase
1483	AE008384_3155	Hypothetical protein
1484	AE008384_3154	Hypothetical protein
1485	AE008384_3153	Hypothetical protein
1486	AE008384_3152	Hypothetical protein
1487	AE008384_3151	Hypothetical protein
1488	AE008384_3150	METHYLTRANSFERASE
1489	AE008384_3149	Hypothetical protein
1490	AE008384_3148	Exodeoxyribonuclease III
1491	AE008384_3147	TYPE I RESTRICTION-MODIFICATION SYSTEM METHYLATION SUBUNIT
1492	AE008384_3146	Hypothetical protein
1493	AE008384_3145	Hypothetical protein
1494	AE008384_3143	Hypothetical protein
1495	AE008384_3142	TYPE I RESTRICTION-MODIFICATION SYSTEM SPECIFICITY SUBUNIT
1496	AE008384_3141	TYPE I RESTRICTION-MODIFICATION SYSTEM RESTRICTION SUBUNIT
1497	AE008384_3140	Flavodoxin
1497	AE008384_3140	Flavodoxin
1498	AE008384_3139	Large-conductance mechanosensitive channel
1498	AE008384_3139	Large-conductance mechanosensitive channel
1499	AE008384_3138	Cob(I)alamin adenosyltransferase
1499	AE008384_3138	Cob(I)alamin adenosyltransferase
1500	AE008384_3137	TRANSPORTER, LysE family
1501	AE008384_3136	ABC Transporter, permease protein
1502	AE008384_3135	ABC Transporter, ATP-binding protein
1503	AE008384_3134	PROTEASE HTPX
1504	AE008384_3133	Hypothetical protein
1505	AE008384_3132	Hypothetical protein
1506	AE008384_3131	Fructokinase
1507	AE008384_3130	Hypothetical protein
1508	AE008384_3129	Hypothetical protein
1509	AE008384_3128	Hypothetical protein
1510	AE008384_3127	Hypothetical protein
1511	AE008384_3126	Hypothetical protein
1512	AE008384_3125	Hypothetical protein
1513	AE008384_3124	Citrate synthase
1513	AE008384_3124	Hypothetical protein
1514	AE008384_3123	Hypothetical protein
1515	AE008384_3122	Putative hydrolase
1515	AE008384_3122	Fe-S OXIDOREDUCTASE
1516	AE008384_3121	Hypothetical protein
1517	AE008384_3120	Hypothetical protein
1518	AE008384_3119	IRON-SULFUR FLAVOPROTEIN
1519	AE008384_3118	ATP-dependent protease La

1520	AE008384_3117	Transcriptional regulator, MarR family
1521	AE008384_3116	Hypothetical protein
1522	AE008384_3115	Hypothetical protein
1523	AE008384_3113	Oligoendopeptidase F
1524	AE008384_3111	Hypothetical protein
1525	AE008384_3110	Hypothetical protein
1526	AE008384_3109	Glycogen phosphorylase
1527	AE008384_3108	Hypothetical protein
1528	AE008384_3107	Hypothetical protein
1529	AE008384_3106	Hypothetical protein
1530	AE008384_3105	Probable cytosine deaminase
1531	AE008384_3104	Hypothetical protein
1532	AE008384_3103	Hypothetical protein
1533	AE008384_3102	Conserved protein
1534	AE008384_3101	Two component system histidine kinase
1535	AE008384_3100	Hypothetical protein
1536	AE008384_3099	Two component system histidine kinase
1536	AE008384_3099	Two component system histidine kinase
1537	#NV	Hypothetical protein (not in ERGO !)
1538	AE008384_3098	ABC transporter, permease protein
1539	AE008384_3097	Hypothetical protein
1540	AE008384_3096	Hypothetical protein
1541	AE008384_3095	ABC transporter, ATP-binding protein
1542	AE008384_3094	Hypothetical protein
1543	AE008384_3093	Hypothetical protein
1543	AE008384_3093	Transcriptional regulator
1544	AE008384_3092	Hypothetical protein
1545	AE008384_3091	Phycocyanin alpha-subunit phycocyanobilin lyase related protein, CpcE/NblB family
1546	AE008384_3090	Hypothetical protein
1547	AE008384_3089	Carbonic anhydrase
1548	AE008384_3088	Carbonic anhydrase
1549	AE008384_1566	MOLYBDENUM FORMYLMETHANOFURAN DEHYDROGENASE SUBUNIT
1550	AE008384_1565	MOLYBDENUM FORMYLMETHANOFURAN DEHYDROGENASE SUBUNIT
1551	AE008384_1564	MOLYBDENUM-CONTAINING FORMYLMETHANOFURAN DEHYDROGENASE ISOENZYME I SUBUNIT E
1552	AE008384_1563	TUNGSTEN TRANSPORTER, ATP BINDING PROTEIN
1553	AE008384_1562	TUNGSTEN TRANSPORTER, PERMEASE PROTEIN
1554	AE008384_1561	ABC TRANSPORTER, TUNGSTEN-BINDING PROTEIN
1555	AE008384_1560	Hypothetical protein
1556	AE008384_1559	Hypothetical protein
1557	AE008384_1558	Hypothetical protein
1558	AE008384_1557	Signal recognition particle SEC65 subunit
1559	AE008384_1555	PUTATIVE METAL DEPENDENT HYDROLASE
1560	AE008384_1554	Transcriptional regulator
1561	AE008384_1553	TRANSPORTER, RND superfamily
1562	AE008384_1552	Hypothetical protein
1563	AE008384_1551	Hypothetical protein
1564	AE008384_1550	putative molybdenum transport protein ModA
1565	AE008384_1549	SODIUM/PROLINE SYMPORTER
1566	AE008384_1548	Conserved protein
1567	AE008384_1547	Tetrahydromethanopterin S-methyltransferase, subunit E
1568	AE008384_1546	Tetrahydromethanopterin S-methyltransferase, subunit D
1569	AE008384_1545	Tetrahydromethanopterin S-methyltransferase, subunit C

1570	AE008384_1544	Tetrahydromethanopterin S-methyltransferase, subunit B
1571	AE008384_1543	Tetrahydromethanopterin S-methyltransferase, subunit A
1572	AE008384_1542	Tetrahydromethanopterin S-methyltransferase, subunit F
1573	AE008384_1541	Tetrahydromethanopterin S-methyltransferase, subunit G
1574	AE008384_1540	Tetrahydromethanopterin S-methyltransferase, subunit H
1575	AE008384_1539	Hypothetical protein
1576	AE008384_1538	Replication factor C subunit
1577	AE008384_1537	Conserved protein
1578	AE008384_1536	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase
1579	AE008384_1535	L-fucose phosphate aldolase
1580	AE008384_1534	Hypothetical protein
1581	AE008384_1533	Molybdopterin biosynthesis MoeB protein/ThiF protein
1582	AE008384_1531	Putative regulatory protein
1583	AE008384_1530	Hypothetical protein
1584	AE008384_1529	Hypothetical protein
1585	AE008384_1528	Aconitate hydratase
1586	AE008384_1527	Citrate (si) synthase
1587	AE008384_1526	4-hydroxybenzoate decarboxylase
1588	AE008384_1525	Conserved protein
1589	AE008384_1524	Conserved protein
1590	AE008384_1523	Zinc metalloprotease
1591	AE008384_1522	Putative FeS oxidoreductase
1592	AE008384_1521	PHOSPHOGLUCOMUTASE / PHOSPHOMANNOMUTASE
1593	AE008384_1520	Conserved protein
1594	AE008384_1519	Amino-acid acetyltransferase
1595	AE008384_1518	Conserved protein
1596	AE008384_1517	Cysteine desulfurase
1597	AE008384_1516	Type II secretion system protein
1598	AE008384_1515	Transporter
1599	AE008384_1514	Hypothetical protein
1600	AE008384_1513	Hypothetical protein
1601	AE008384_1512	Hypothetical protein
1602	AE008384_1511	Hypothetical protein
1603	AE008384_1510	Hypothetical protein
1604	AE008384_1509	Hypothetical protein
1605	AE008384_1508	Hypothetical protein
1606	AE008384_1507	Hypothetical protein
1607	AE008384_1506	FdhD protein
1608	AE008384_1505	Imidazoleglycerol-phosphate dehydratase
1609	AE008384_1504	Phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase
1610	AE008384_1503	ATP phosphoribosyltransferase
1611	AE008384_1502	S-adenosylmethionine synthetase
1612	AE008384_1501	Hypothetical protein
1613	AE008384_1500	Xaa-Pro aminopeptidase
1614	AE008384_1499	Methionine aminopeptidase
1615	AE008384_1498	Hypothetical protein
1616	AE008384_1497	Conserved protein
1617	AE008384_1496	PUTATIVE METHYLTRANSFERASE
1618	AE008384_1495	tRNA pseudouridine synthase A
1619	AE008384_1494	Hypothetical transcriptional regulatory protein
1620	AE008384_1493	Conserved protein
1621	AE008384_1492	Conserved protein

1622	AE008384_1491	PUTATIVE NUCLEOTIDYLTRANSFERASE
1623	AE008384_1490	3-isopropylmalate dehydratase
1624	AE008384_1489	3-isopropylmalate dehydrogenase
1625	AE008384_1488	Hypothetical protein
1626	AE008384_1487	METHYLTRANSFERASE
1627	AE008384_1486	Alanyl-tRNA synthetase
1628	AE008384_1485	Conserved protein
1629	AE008384_1484	Conserved protein
1630	AE008384_1482	Hypothetical protein
1631	AE008384_1480	Conserved protein
1632	AE008384_1479	SWF/SNF FAMILY HELICASE
1633	AE008384_1478	Molybdenum cofactor biosynthesis protein B
1634	AE008384_1477	Pyruvate formate-lyase activating enzyme
1635	AE008384_1476	LSU ribosomal protein L10E
1636	AE008384_1475	Probable translation initiation factor 2 beta subunit
1637	AE008384_1474	Metallo cofactor biosynthesis protein (moaA/ nifB /pqqE family
1638	AE008384_1473	Conserved protein
1639	AE008384_1472	PUTATIVE NUCLEOTIDYLTRANSFERASE
1640	AE008384_1471	Tryptophanyl-tRNA synthetase
1641	AE008384_1470	Phenylalanyl-tRNA synthetase, alpha chain
1642	AE008384_1469	Conserved protein
1643	AE008384_1468	Hypothetical protein
1644	AE008384_1467	Hypothetical protein
1645	AE008384_1466	Hypothetical protein
1646	AE008384_1465	Hypothetical membrane spanning protein
1647	AE008384_1464	Hypothetical protein
1648	AE008384_1463	Copper-exporting ATPase
1649	AE008384_1461	Cation-transporting ATPase
1650	AE008384_1459	Hypothetical protein
1651	AE008384_1458	Conserved protein
1652	AE008384_1457	Conserved protein
1653	AE008384_1456	Universal stress protein
1654	AE008384_1455	Universal stress protein
1655	AE008384_1454	Universal stress protein
1656	AE008384_1453	Universal stress protein
1657	AE008384_1452	Universal stress protein
1658	AE008384_1451	Universal stress protein
1659	AE008384_1450	Fe-S OXIDOREDUCTASE
1660	AE008384_1448	Hypothetical protein
1661	AE008384_1447	Hypothetical protein
1662	AE008384_1445	Lysly-tRNA synthetase (PylS)
1663	AE008384_1444	PylB (Pyrrolysine synthesis)
1664	AE008384_1443	PylC (Pyrrolysine synthesis)
1665	AE008384_1442	Hypothetical protein
1666	AE008384_1441	Inorganic pyrophosphatase
1666	AE008384_1441	Inorganic pyrophosphatase
1667	AE008384_1440	Conserved protein
1668	AE008384_1439	Methylcobalamin:coenzyme M methyltransferase
1669	AE008384_1438	Monomethylamine corrinoid protein
1669	AE008384_1438	Monomethylamine corrinoid protein
1670	AE008384_1437	Monomethylamine:corrinoid methyltransferase
1671	AE008384_1436	Monomethylamine:corrinoid methyltransferase (C-terminal domain)

1672	AE008384_1435	Monomethylamine permease
1673	AE008384_1434	Monomethylamine permease (C-terminal domain)
1674	AE008384_1433	Hypothetical protein
1675	AE008384_1431	Transposase
1676	AE008384_1430	Transposase
1677	AE008384_1428	Conserved protein
1678	AE008384_1426	REPLICATION FACTOR C SUBUNIT
1679	AE008384_1425	PROTEIN TRANSLOCASE, SUBUNIT SECD
1680	AE008384_1424	PROTEIN TRANSLOCASE, SUBUNIT SECF
1681	AE008384_1423	dCMP DEAMINASE
1682	AE008384_1422	Hypothetical protein
1683	AE008384_1421	Conserved protein
1684	AE008384_1420	Hypothetical protein
1685	AE008384_1419	Small heat shock protein
1686	AE008384_1418	3-phosphonopyruvate decarboxylase
1687	AE008384_1417	Aspartate kinase
1688	AE008384_1416	Phosphoribosylformylglycinamide cyclo-ligase
1689	AE008384_1415	Conserved protein
1690	AE008384_1414	Conserved protein
1691	AE008384_1413	Conserved protein
1692	AE008384_1412	Hypothetical protein
1693	AE008384_1411	Hypothetical protein
1694	AE008384_1410	Hypothetical protein
1695	AE008384_1409	Hypothetical protein
1696	AE008384_1408	archaeosine tRNA-ribosyltransferase
1697	AE008384_1407	Conserved protein
1698	AE008384_1406	Acetylornithine aminotransferase
1699	AE008384_1405	Histidinol-phosphate aminotransferase
1700	AE008384_1404	Conserved protein
1701	AE008384_1403	CDP-diacylglycerol--serine O-phosphatidyltransferase
1702	AE008384_1402	Phosphatidylserine decarboxylase
1703	AE008384_1401	Hypothetical protein
1704	AE008384_1399	MutT-like protein
1705	AE008384_1398	DNA-directed RNA polymerase subunit M
1706	AE008384_1397	DNA polymerase sliding clamp
1707	AE008384_1396	Conserved protein
1708	AE008384_1395	Conserved protein
1709	AE008384_1394	Cobyrinic acid a,c-diamide synthase
1710	AE008384_1393	Molybdenum cofactor biosynthesis protein A
1711	AE008384_1392	Hypothetical protein
1712	AE008384_1391	Survival protein
1713	AE008384_1390	Probable transcriptional regulator
1714	AE008384_1389	Conserved protein
1715	AE008384_1388	Glycyl-tRNA synthetase
1716	AE008384_1387	ATP-DEPENDENT RNA HELICASE, EIF-4A FAMILY
1717	AE008384_1386	Hypothetical protein
1718	AE008384_1385	Conserved protein
1719	AE008384_1384	Superfamily I DNA and RNA helicase
1720	AE008384_1383	Phenylalanyl-tRNA synthetase, alpha chain
1721	AE008384_1382	Conserved protein
1722	AE008384_1381	Chaperone protein
1723	AE008384_1380	Chaperone protein

1723	AE008384_1380	Chaperone protein
1724	AE008384_1379	Thermosome, alpha subunit
1725	AE008384_1378	ORIGIN RECOGNITION COMPLEX SUBUNIT
1726	AE008384_1377	Hypothetical protein
1727	AE008384_1376	Exopolyphosphatase
1727	AE008384_1376	Exopolyphosphatase
1728	AE008384_1375	Polyphosphate kinase
1728	AE008384_1375	Polyphosphate kinase
1729	AE008384_1374	DNA mismatch repair protein
1731	AE008384_1373	Hydrolase of the alpha/beta superfamily
1732	AE008384_1372	Hypothetical protein
1733	AE008384_1371	Archaeal protein Translation Initiation Factor 2B subunit 1 (aIF-2B1)
1734	AE008384_1370	Myo-inositol-1-phosphate synthase
1735	AE008384_1369	DNA repair protein
1736	AE008384_1368	Glutaredoxin-like protein
1737	AE008384_1367	Anaerobic ribonucleoside-triphosphate reductase
1738	AE008384_1366	Ribonucleoside-triphosphate reductase activating enzyme
1739	AE008384_1365	THIAMIN-MONOPHOSPHATE KINASE
1740	AE008384_1364	Hypothetical protein
1741	AE008384_1363	Conserved hypothetical protein
1742	AE008384_1362	Putative aliphatic sulfonate binding protein precursor
1743	AE008384_1361	ABC transporter, permease protein
1744	AE008384_1360	ABC transporter, ATP-binding protein
1745	AE008384_1359	Hypothetical protein
1746	AE008384_1358	PUTATIVE METHYLTRANSFERASE
1747	AE008384_1356	Conserved protein
1748	AE008384_1355	Conserved protein
1749	AE008384_1354	Hypothetical protein
1750	AE008384_1353	Conserved protein
1751	AE008384_1352	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase
1752	AE008384_1351	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase
1753	AE008384_1349	Conserved protein
1754	AE008384_1348	Arginyl-tRNA synthetase
1754	AE008384_1348	Arginyl-tRNA synthetase
1755	AE008384_1347	Peptide Chain Release Factor
1756	AE008384_1346	Fe-S OXIDOREDUCTASE
1757	AE008384_1345	DNA polymerase II small subunit
1758	AE008384_1344	SIGNAL SEQUENCE PEPTIDASE
1758	AE008384_1344	SIGNAL SEQUENCE PEPTIDASE
1759	AE008384_1343	NifR3-like protein
1760	AE008384_1342	Pyruvate synthase, gamma subunit
1761	AE008384_1341	Pyruvate synthase, delta subunit
1762	AE008384_1340	Pyruvate synthase, alpha subunit
1763	AE008384_1339	Pyruvate synthase, beta subunit
1763	AE008384_1339	Pyruvate synthase, beta subunit
1764	AE008384_1338	Hypothetical protein
1765	AE008384_1337	Hypothetical protein
1766	AE008384_1336	Hypothetical protein
1767	AE008384_1335	Zinc ABC transporter, permease protein
1768	AE008384_1334	Zinc ABC transporter, ATP-binding protein
1769	AE008384_1333	Zinc ABC transporter, zinc-binding protein
1770	AE008384_1332	Iron-dependent repressor

1771	AE008384_1331	Gluconate permease
1772	AE008384_1330	Chemotaxis protein CheW
1773	AE008384_1329	Methyl-accepting chemotaxis protein
1774	AE008384_1328	Two-component response regulator
1775	AE008384_1327	Chemotaxis protein
1776	AE008384_1326	protein-glutamate methylesterase
1777	AE008384_1325	Chemotaxis protein
1778	AE008384_1324	Chemotaxis protein methyltransferase
1779	AE008384_1323	Chemotaxis protein
1780	AE008384_1322	Chemotaxis protein
1781	AE008384_1321	Formylmethanofuran--tetrahydromethanopterin formyltransferase
1781	AE008384_1321	Formylmethanofuran--tetrahydromethanopterin formyltransferase
1782	AE008384_1319	Pheromone shutdown protein
1783	AE008384_1318	Conserved protein
1784	AE008384_1317	Glutamate decarboxylase
1785	AE008384_1316	Sodium/proline symporter
1785	AE008384_1316	Sodium/proline symporter
1786	AE008384_1315	Sodium/proline symporter
1787	AE008384_1314	ORIGIN RECOGNITION COMPLEX SUBUNIT
1788	AE008384_1313	UMP/CMP kinase related protein
1789	AE008384_1312	Conserved protein
1790	AE008384_1311	Conserved protein
1791	AE008384_1310	Hypothetical protein
1792	AE008384_1309	protein Translation Elongation Factor 1A (EF-1A)
1794	AE008384_1307	Conserved protein
1795	AE008384_1306	HTH DNA-binding protein
1796	AE008384_1305	Conserved protein
1797	AE008384_1304	Conserved protein
1798	AE008384_1303	Conserved protein
1799	AE008384_1302	Conserved protein
1800	AE008384_1301	Conserved protein
1801	AE008384_1300	Transposase
1802	AE008384_1299	Replication factor-A protein
1803	AE008384_1298	Putative tRNA 2'phosphotransferase
1804	AE008384_1297	RNA 3'-terminal phosphate cyclase
1805	AE008384_1296	NADH oxidase
1806	AE008384_1295	DNA primase
1807	AE008384_1294	Conserved protein
1808	AE008384_1293	Ribosomal protein S18 alanine acetyltransferase
1809	AE008384_1292	Archaeosine tRNA-ribosyltransferase
1810	AE008384_1291	(S)-2-hydroxy-acid dehydrogenase
1811	AE008384_1290	Fe-S oxidoreductase
1812	AE008384_1288	Conserved protein
1815	AE008384_1285	Sec-independent transport protein TatD
1816	AE008384_1284	2-isopropylmalate synthase
1822	AE008384_3353	Conserved protein
1823	AE008384_3352	Hypothetical protein
1824	AE008384_3350	Hypothetical protein
1825	AE008384_3349	Hypothetical protein
1826	AE008384_3347	Conserved protein
1827	AE008384_3346	Hypothetical protein
1828	AE008384_3345	Hypothetical protein

1829	AE008384_3344	Transposase
1831	AE008384_3342	Conserved protein
1832	AE008384_3340	Hypothetical protein
1833	AE008384_3339	Hypothetical protein
1834	AE008384_3338	Hypothetical protein
1835	AE008384_3336	Monomethylamine:corrinoid methyltransferase MtmB (C-terminal domain)
1836	AE008384_3335	Monomethylamine:corrinoid methyltransferase
1837	AE008384_3334	Monomethylamine Corrinoid protein
1839	AE008384_3332	Putative ferredoxin
1840	AE008384_3331	Conserved protein
1841	AE008384_3330	O-linked N-acetylglucosamine transferase
1842	AE008384_3329	Phosphoglycolate phosphatase
1843	AE008384_3328	Conserved protein
1844	AE008384_3327	Ferredoxin
1845	AE008384_3326	ALDEHYDE FERREDOXIN OXIDOREDUCTASE
1846	AE008384_3325	permease, Na ⁺ /H ⁺ -dicarboxylate symporter
1846	AE008384_3325	permease, Na ⁺ /H ⁺ -dicarboxylate symporter
1847	AE008384_3324	Oligopeptide transporter, ATP-binding protein
1848	AE008384_3323	Oligopeptide transporter, ATP-binding protein
1850	AE008384_3321	Oligopeptide transporter, permease protein
1851	AE008384_3320	Oligopeptide transporter, permease protein
1852	AE008384_3319	Transport protein
1853	AE008384_3318	Conserved protein
1854	AE008384_3317	Hypothetical protein
1855	AE008384_3315	Hypothetical protein
1856	AE008384_3314	N-5'-phosphoribosyl)anthranilate isomerase
1857	AE008384_3313	Hypothetical protein
1858	AE008384_3312	5-methylcytosine-specific restriction enzyme A
1859	AE008384_3311	Acetyltransferase
1860	AE008384_3310	Transcriptional regulator, AraC family
1861	AE008384_3309	Ferredoxin
1862	AE008384_3308	Conserved protein
1863	AE008384_3307	Conserved protein
1864	AE008384_3306	Conserved protein
1865	AE008384_3305	Putative DNA or RNA helicase of superfamily II
1866	AE008384_3304	Threonyl-tRNA synthetase
1867	AE008384_3303	Hypothetical protein
1868	AE008384_3301	Hypothetical protein
1869	AE008384_3300	Phosphoadenosine phosphosulfate reductase
1870	AE008384_3299	Hypothetical protein
1871	AE008384_3297	Glutamate dehydrogenase
1872	AE008384_3296	Hypothetical protein
1873	AE008384_3295	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
1874	AE008384_3294	Hypothetical protein
1875	AE008384_3293	Iron-sulfur cluster-binding protein
1876	AE008384_3291	Excinuclease ABC, subunit A
1877	AE008384_3290	Excinuclease ABC, subunit C
1878	AE008384_3289	Excinuclease ABC, subunit B
1878	AE008384_3289	Excinuclease ABC, subunit B
1878	AE008384_3289	Excinuclease ABC, subunit B
1879	AE008384_3288	Conserved protein
1880	AE008384_3287	Hypothetical protein

1881	AE008384_3286	Hypothetical protein
1882	AE008384_3285	Conserved protein
1883	AE008384_3284	Transcriptional regulator
1884	AE008384_3283	Putative inorganic pyrophosphatase
1885	AE008384_3282	Probable ATP-dependent helicase
1886	AE008384_3281	SAM-dependent methyltransferases
1887	AE008384_3280	Conserved protein
1888	AE008384_3279	Dihydrolipoamide dehydrogenase
1889	AE008384_3278	Hypothetical Membrane Spanning protein
1890	AE008384_3277	PROTEASE I
1891	AE008384_3276	Hypothetical protein
1892	AE008384_3275	Conserved protein
1893	AE008384_3274	Hypothetical protein
1894	AE008384_3272	Putative transport protein
1895	AE008384_3271	Glutaredoxin
1896	AE008384_3270	Ferredoxin-thioredoxin reductase, catalytic chain
1897	AE008384_3269	Serine O-acetyltransferase
1898	AE008384_3268	NADPH-flavin oxidoreductase
1899	AE008384_3267	Conserved protein
1900	AE008384_3266	Hypothetical protein
1902	AE008384_3264	Coenzyme F420 hydrogenase beta subunit
1903	AE008384_3263	Branched-chain amino acid transport protein
1904	AE008384_3262	Branched-chain amino acid transport protein
1905	AE008384_3261	Conserved protein
1906	AE008384_3260	Hypothetical protein
1907	AE008384_3259	Conserved protein
1908	AE008384_3258	Hypothetical protein
1909	AE008384_3257	Conserved protein
1910	AE008384_3256	Hypothetical protein
1911	AE008384_3255	Hypothetical protein
1912	AE008384_3254	Hypothetical protein
1913	AE008384_3253	Hypothetical protein
1914	AE008384_3251	Hypothetical protein
1915	AE008384_3250	Hypothetical protein
1916	AE008384_3249	Hypothetical protein
1917	AE008384_3248	Hypothetical protein
1918	AE008384_3247	Conserved protein
1919	AE008384_3245	Transposase
1920	AE008384_3244	Hypothetical protein
1921	AE008384_3243	Hypothetical protein
1922	AE008384_3241	Hypothetical protein
1923	AE008384_3240	Probable transcriptional regulator
1924	AE008384_3239	Hypothetical protein
1925	AE008384_3238	Conserved protein
1926	AE008384_3235	Thiamin-phosphate pyrophosphorylase
1927	AE008384_3234	Hydroxyethylthiazole kinase
1928	AE008384_3233	HTH DNA-binding protein
1929	AE008384_3231	Conserved protein
1930	AE008384_3230	Phosphate permease
1930	AE008384_3230	Phosphate permease
1932	AE008384_3228	Transposase
1933	AE008384_3227	Conserved protein

1934	AE008384_3226	Conserved protein
1935	AE008384_3225	Putative ketoreductase
1936	AE008384_3224	ABC Transporter, permease protein)
1937	AE008384_3223	ABC transporter, ATP-binding protein
1938	AE008384_3222	Conserved protein
1939	AE008384_3221	Conserved protein
1940	AE008384_3220	Transporter
1941	AE008384_3219	Conserved protein
1942	AE008384_3218	Conserved protein
1943	AE008384_3217	Conserved protein
1944	AE008384_3216	Conserved protein
1945	AE008384_3215	Conserved protein
1946	AE008384_3214	Ferredoxin
1947	AE008384_3213	Prismane protein
1948	AE008384_3212	Hypothetical protein
1949	AE008384_3211	Cation efflux protein
1950	AE008384_3209	Transporter
1951	AE008384_3208	Transcriptional regulator, ArsR family
1952	AE008384_3207	PROTEASE
1953	AE008384_3206	Response regulator
1954	AE008384_3205	Two component system histidine kinase
1955	AE008384_3204	Conserved protein
1956	AE008384_3203	Hypothetical protein
1957	AE008384_3202	Conserved protein
1958	AE008384_3201	Conserved protein
1959	AE008384_3200	Hypothetical protein
1960	AE008384_3199	Transporter
1961	AE008384_3198	Hypothetical protein
1962	AE008384_3197	Hypothetical protein
1963	AE008384_3196	Hypothetical protein
1964	AE008384_3195	Transcriptional regulator, MarR family
1965	AE008384_3194	Uncharacterized membrane protein
1966	AE008384_3192	Hypothetical membrane spanning protein
1967	AE008384_3191	Hypothetical protein
1968	AE008384_3190	Hypothetical protein
1969	AE008384_3189	Potassium channel protein
1970	AE008384_3188	Glutamine synthetase
1971	AE008384_3187	Flavodoxin
1972	AE008384_3186	Transporter
1973	AE008384_3185	Ornithine decarboxylase
1974	AE008384_3183	KETOISOVALERATE OXIDOREDUCTASE SUBUNIT
1975	AE008384_3182	KETOISOVALERATE OXIDOREDUCTASE SUBUNIT
1976	AE008384_3181	Ketoisovalerate oxidoreductase subunit
1977	AE008384_3180	Putative Acetyl-CoA synthetase
1978	AE008384_3179	Transcriptional regulator
1979	AE008384_3178	Hypothetical protein
1980	AE008384_3177	Hypothetical protein
1981	AE008384_3176	Hypothetical protein
1982	AE008384_3175	Hypothetical protein
1983	AE008384_3174	Hypothetical protein
1984	AE008384_3173	Transcriptional regulator, ArsR family
1985	AE008384_3172	PUTATIVE METHYLTRANSFERASE

1986	AE008384_3171	Hypothetical protein
1987	AE008384_3170	Transcriptional regulator, MerR family
1988	AE008384_3169	Hypothetical protein
1991	AE008384_772	Conserved protein
1992	AE008384_773	Putative cation transport regulator
1993	AE008384_774	Conserved protein
1996	AE008384_776	Conserved protein
1997	AE008384_777	Hydrogenase maturation protein
1998	AE008384_778	A1AO H+ ATPASE, SUBUNIT D
1998	AE008384_778	A1AO H+ ATPASE, SUBUNIT D
1999	AE008384_779	A1AO H+ ATPASE, SUBUNIT B
1999	AE008384_779	A1AO H+ ATPASE, SUBUNIT B
2000	AE008384_780	A1AO H+ ATPASE, SUBUNIT A
2001	AE008384_781	A1AO H+ ATPASE, SUBUNIT F
2002	AE008384_782	A1AO H+ ATPASE, SUBUNIT C
2003	AE008384_783	A1AO H+ ATPASE, SUBUNIT E
2004	AE008384_784	A1AO H+ ATPASE, SUBUNIT K
2008	AE008384_2302	Conserved protein
2009	AE008384_2301	Carbon monoxide dehydrogenase
2010	AE008384_2300	METAL DEPENDENT HYDROLASE
2011	AE008384_2299	Hypothetical protein
2012	AE008384_2298	Conserved protein
2013	AE008384_2297	Conserved protein
2014	AE008384_2296	Conserved protein
2015	AE008384_2295	SURFACE LAYER PROTEIN B
2016	AE008384_2294	TYPE I RESTRICTION-MODIFICATION SYSTEM METHYLATION SUBUNIT
2017	AE008384_2293	TYPE I RESTRICTION-MODIFICATION SYSTEM SPECIFICITY SUBUNIT
2018	AE008384_2292	TYPE I RESTRICTION-MODIFICATION SYSTEM RESTRICTION SUBUNIT
2019	AE008384_2291	Zinc metalloprotease
2020	AE008384_2290	Cell surface protein
2021	AE008384_2289	Hypothetical protein
2022	AE008384_2288	Methyltransferase involved in cell division
2023	AE008384_2287	Hypothetical protein
2024	AE008384_2286	Conserved protein
2025	AE008384_2285	Conserved protein
2026	AE008384_2283	DNA/pantothenate metabolism flavoprotein
2027	AE008384_2282	Conserved protein
2028	AE008384_2281	Hypothetical protein
2029	AE008384_2280	Conserved protein
2030	AE008384_2279	Chlorohydrolase family protein
2031	AE008384_2278	Adenosylhomocysteinase
2032	AE008384_2277	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
2033	AE008384_2276	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
2034	AE008384_2275	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
2035	AE008384_2274	DNA-directed RNA polymerase, subunit H
2036	AE008384_2273	DNA-directed RNA polymerase, beta chain
2037	AE008384_2272	DNA-directed RNA polymerase, beta chain
2038	AE008384_2271	DNA-directed RNA polymerase, subunit A'
2039	AE008384_2270	DNA-directed RNA polymerase, subunit A''
2039	AE008384_2270	DNA-directed RNA polymerase, subunit A''
2040	AE008384_2269	LSU ribosomal protein L30E
2041	AE008384_2268	NusA protein homolog

2042	AE008384_2267	SSU ribosomal protein S12P
2043	AE008384_2266	SSU ribosomal protein S7P
2044	AE008384_2265	protein Translation Elongation factor 2
2045	AE008384_2264	protein Translation Elongation Factor 1A
2046	AE008384_2263	SSU ribosomal protein S10P
2047	AE008384_2262	Conserved protein
2048	AE008384_2261	Conserved protein
2049	AE008384_2259	Conserved protein
2050	AE008384_2258	Conserved protein
2051	AE008384_2257	Conserved protein
2052	AE008384_2256	Conserved protein
2053	AE008384_2255	Conserved protein
2054	AE008384_2254	Conserved protein
2055	AE008384_2253	Dihydropyrimidinase
2056	AE008384_2252	Conserved protein
2057	AE008384_2251	Tetrahydromethanopterin S-methyltransferase, subunit A
2058	AE008384_2250	Conserved protein
2059	AE008384_2249	Hypothetical protein
2060	AE008384_2248	Conserved protein
2061	AE008384_2247	Conserved protein
2063	AE008384_2246	Transcriptional regulator, ArsR family
2064	AE008384_2245	Conserved protein
2065	AE008384_2244	ARSENATE REDUCTASE
2066	AE008384_2243	Putative methyltransferase
2067	AE008384_2242	Transcriptional regulator, ArsR family
2068	AE008384_2241	Cytochrome c-type biogenesis protein CcdA
2069	AE008384_2240	Conserved protein
2070	AE008384_2239	Conserved protein
2071	AE008384_2238	Hypothetical protein
2072	AE008384_2237	Transcriptional regulator, ArsR family
2073	AE008384_2236	Conserved protein
2074	AE008384_2235	Conserved protein
2075	AE008384_2234	Conserved protein
2076	AE008384_2233	Conserved protein
2077	AE008384_2232	Transposase
2078	AE008384_2231	Transposase
2079	AE008384_2230	Transposase
2080	AE008384_2229	Conserved protein
2081	AE008384_2228	AMIDOHYDROLASE (putative)
2082	AE008384_2227	Acetyltransferase
2083	AE008384_2225	Glucoamylase
2084	AE008384_2224	Trp repressor binding protein
2085	AE008384_2223	Dolichyl-phosphate glucose synthetase
2086	AE008384_2222	Galactosyltransferase
2087	AE008384_2221	Glycosyltransferase
2088	AE008384_2220	Hypothetical protein
2089	AE008384_2219	Hypothetical protein
2090	AE008384_2218	Transposase
2091	AE008384_2217	Conserved protein
2092	AE008384_2216	Glucose-1-phosphate thymidyltransferase
2093	AE008384_2214	Polysaccharide ABC transporter, ATP-binding protein
2097	AE008384_2698	REVERSE TRANSCRIPTASE

2098	AE008384_2699	Transposase
2099	AE008384_2700	Transposase
2100	AE008384_2701	Hypothetical protein
2101	AE008384_2702	Hypothetical protein
2102	AE008384_2703	TYPE I RESTRICTION-MODIFICATION SYSTEM SPECIFICITY SUBUNIT
2103	AE008384_2704	TYPE I RESTRICTION-MODIFICATION SYSTEM METHYLATION SUBUNIT
2106	AE008384_2706	Conserved protein
2107	AE008384_2707	Conserved protein
2108	AE008384_2708	Conserved protein
2109	AE008384_2709	Conserved protein
2110	AE008384_2710	Conserved protein
2111	AE008384_2711	Conserved protein
2112	AE008384_2712	Conserved protein
2113	AE008384_2713	Homoserine dehydrogenase
2114	AE008384_2714	ATP-dependent DNA ligase
2115	AE008384_2715	Hypothetical protein
2116	AE008384_2716	Conserved protein
2117	AE008384_2717	Conserved protein
2118	AE008384_2718	Hypothetical protein
2119	AE008384_2719	Conserved protein
2120	AE008384_2720	Hypothetical protein
2121	AE008384_2721	Conserved protein
2122	AE008384_2722	Hypothetical protein
2123	AE008384_2723	Phosphoenolpyruvate synthase
2124	AE008384_2727	Conserved protein
2125	AE008384_2728	Hypothetical protein
2126	AE008384_2730	Conserved protein
2127	AE008384_2731	Multiple antibiotic resistance protein
2128	AE008384_2732	Conserved protein
2129	AE008384_2733	Hypothetical protein
2130	AE008384_2734	Conserved protein
2131	AE008384_2736	Conserved protein
2133	AE008384_2737	Conserved protein
2134	AE008384_2738	Conserved protein
2135	AE008384_2739	TYPE I RESTRICTION-MODIFICATION SYSTEM SPECIFICITY SUBUNIT
2136	AE008384_2740	TYPE I RESTRICTION-MODIFICATION SYSTEM METHYLATION SUBUNIT
2137	AE008384_2741	Hypothetical protein
2138	AE008384_2742	Hypothetical protein
2139	AE008384_2743	Hypothetical protein
2140	AE008384_2744	Conserved protein
2141	AE008384_2745	Conserved protein
2142	AE008384_2746	Conserved protein
2143	AE008384_2747	Hypothetical protein
2144	AE008384_2748	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
2145	AE008384_2749	Aminoacyl-histidine dipeptidase
2146	AE008384_2750	Hypothetical protein
2147	AE008384_2751	Conserved protein
2148	AE008384_2752	Hypothetical protein
2150	AE008384_2753	Hypothetical protein
2151	AE008384_2754	Conserved protein
2152	AE008384_2755	Hypothetical protein
2153	AE008384_2756	Hypothetical protein

2154	AE008384_2757	Hypothetical protein
2155	AE008384_2759	Hypothetical protein
2156	AE008384_2760	Hypothetical protein
2157	AE008384_2761	Hypothetical protein
2158	AE008384_2762	Hypothetical protein
2159	AE008384_2763	Putative DNA recombinase
2160	AE008384_2764	Hypothetical protein
2161	AE008384_2766	Hypothetical protein
2162	AE008384_2767	Hypothetical protein
2163	AE008384_2768	Conserved protein
2164	AE008384_2769	Iron-containing alcohol dehydrogenase
2165	AE008384_2770	Glycogen debranching enzyme
2165	AE008384_2770	Glycogen debranching enzyme
2166	AE008384_2771	Conserved protein
2167	AE008384_2772	Conserved protein
2168	AE008384_2773	Two component system histidine kinase
2169	AE008384_2774	Conserved protein
2170	AE008384_2775	Conserved protein
2171	AE008384_2777	Acylphosphatase
2172	AE008384_2778	Cobalt-zinc-cadmium resistance protein
2173	AE008384_2779	Putative phosphoglycerate mutase
2174	AE008384_2780	Hypothetical protein
2175	AE008384_2781	Conserved protein
2176	AE008384_2782	Glyceraldehyde 3-phosphate dehydrogenase
2177	AE008384_2783	Suppressor protein SuhB homolog
2178	AE008384_2784	Hypothetical protein
2181	AE008384_2787	Conserved protein
2183	AE008384_2788	INDOLEPYRUVATE FERREDOXIN OXIDOREDUCTASE, SUBUNIT ALPHA
2184	AE008384_2789	Hypothetical protein
2185	AE008384_2790	IRON-SULFUR FLAVOPROTEIN
2186	AE008384_2791	DNA repair protein
2187	AE008384_2792	Molybdopterin converting factor, subunit 2
2188	AE008384_2793	Molybdopterin-guanine dinucleotide biosynthesis protein
2189	AE008384_2794	Hypothetical protein
2190	AE008384_2795	Conserved protein
2191	AE008384_2796	Conserved protein
2192	AE008384_2797	Pirin
2193	AE008384_2798	Conserved protein
2193	AE008384_2798	Conserved protein
2194	AE008384_2800	Conserved protein
2195	AE008384_2801	Hypothetical protein
2196	AE008384_2802	Hypothetical protein
2197	AE008384_2803	Carbon monoxide dehydrogenase accessory protein
2198	AE008384_2804	Conserved protein
2199	AE008384_2805	Asparagine synthetase [glutamine-hydrolyzing]
2200	AE008384_2806	Hypothetical protein
2201	AE008384_2807	Phosphoribosylformylglycinamide synthase
2202	AE008384_2808	Conserved protein
2203	AE008384_2809	Conserved protein
2204	AE008384_2810	Conserved protein
2208	AE008384_818	Glutamate 5-kinase
2209	AE008384_819	Gamma-glutamyl phosphate reductase

2209	AE008384_819	Gamma-glutamyl phosphate reductase
2210	AE008384_820	Conserved protein
2211	AE008384_821	Conserved protein
2212	AE008384_822	Hypothetical protein
2213	AE008384_823	Conserved protein
2214	AE008384_824	Universal stress protein
2215	AE008384_825	Conserved protein
2216	AE008384_826	Conserved protein
2217	AE008384_827	Conserved protein
2218	AE008384_828	Conserved protein
2219	AE008384_829	Conserved protein
2220	AE008384_830	Molybdopterin biosynthesis MoeA protein
2221	AE008384_831	Molybdopterin converting factor, small subunit
2222	AE008384_832	Conserved protein
2223	AE008384_833	Conserved protein
2224	AE008384_834	Na ⁺ /H ⁺ antiporter
2224	AE008384_834	Na ⁺ /H ⁺ antiporter
2225	AE008384_835	Cation-transporting ATPase
2226	AE008384_836	Conserved protein
2226	AE008384_836	Conserved protein
2227	AE008384_837	Conserved protein
2228	AE008384_838	Succinate-semialdehyde dehydrogenase [NADP ⁺]
2229	AE008384_839	Conserved protein
2230	AE008384_840	Glycosyltransferases involved in cell wall biogenesis (putative)
2231	AE008384_841	Transcriptional regulator, ArsR family
2232	AE008384_842	Conserved protein
2233	AE008384_843	Coenzyme F390 synthetase/phenylacetyl-CoA ligase
2234	AE008384_844	Hypothetical protein
2235	AE008384_845	Conserved protein
2236	AE008384_846	Conserved protein
2237	AE008384_847	Conserved protein
2238	AE008384_848	Conserved protein
2239	AE008384_849	Bacterioferritin comigratory protein
2240	AE008384_850	Conserved protein
2241	AE008384_851	Conserved protein
2242	AE008384_852	Deoxyribodipyrimidine photolyase
2243	AE008384_853	Conserved protein
2244	AE008384_854	Cell division cycle protein 48 homolog
2245	AE008384_855	Phosphoribosylamidoimidazole-succinocarboxamide synthase
2246	AE008384_856	Conserved protein
2247	AE008384_857	Conserved protein
2248	AE008384_858	protein Translation Initiation Factor 1 (IF-1)
2249	AE008384_859	Conserved protein
2250	AE008384_860	Phosphoribosylformylglycinamide synthase
2251	AE008384_861	Alpha-amylase
2252	AE008384_862	Alpha-amylase
2253	AE008384_863	Conserved protein
2254	AE008384_864	Glucoamylase
2255	AE008384_865	Seryl-tRNA synthetase
2256	AE008384_866	Periplasmic serine protease
2257	AE008384_867	Methionyl-tRNA synthetase
2258	AE008384_868	Adenylate cyclase

2259	AE008384_869	Conserved protein
2260	AE008384_870	Beta-ketoacyl synthase/ thiolase
2261	AE008384_871	Hydroxymethylglutaryl-CoA synthase
2262	AE008384_872	Putative transcriptional regulator
2263	AE008384_873	Conserved protein
2264	AE008384_874	Conserved protein
2265	AE008384_876	Hypothetical protein
2266	AE008384_877	Transposase
2267	AE008384_880	Conserved protein
2269	AE008384_882	Conserved protein
2270	AE008384_883	Conserved protein
2271	AE008384_886	DNA polymerase IV
2272	AE008384_887	Cobalt transporter, ATP-binding protein
2273	AE008384_888	Cobalt transport protein
2274	AE008384_889	Hypothetical protein
2275	AE008384_890	Putative methyltransferase
2276	AE008384_891	Putative methyltransferase
2276	AE008384_891	Putative methyltransferase
2277	AE008384_892	Hypothetical protein
2278	AE008384_893	Cobalamin biosynthesis protein CbiM
2279	AE008384_894	Cobalamin biosynthesis protein CbiM
2280	AE008384_895	Endonuclease III
2281	AE008384_896	Conserved protein
2282	AE008384_897	Glutathione reductase
2283	AE008384_898	Bifunctional purine biosynthesis protein PurH
2284	AE008384_899	Conserved protein
2285	AE008384_900	Conserved protein
2286	AE008384_901	Cation-transporting ATPase
2287	AE008384_902	Putative methyltransferase
2288	AE008384_903	Transcriptional regulator
2289	AE008384_904	Phosphoglycerate mutase
2290	AE008384_905	Conserved protein
2291	AE008384_906	FLAP ENDONUCLEASE-1 (RAD27/FEN1 family)
2292	AE008384_907	Hypothetical protein
2293	AE008384_908	Conserved protein
2294	AE008384_909	Conserved protein
2295	AE008384_910	POTASSIUM/COPPER-TRANSPORTING ATPASE
2296	AE008384_911	ABC transporter, ATP-binding protein
2297	AE008384_912	Conserved protein
2298	AE008384_913	Conserved protein
2299	AE008384_914	Conserved protein
2300	AE008384_915	Conserved protein
2301	AE008384_916	Conserved protein
2302	AE008384_917	Conserved protein
2303	AE008384_918	4-carboxymuconolactone decarboxylase
2304	AE008384_919	Conserved protein
2305	AE008384_920	MutT related protein
2306	AE008384_921	Aldehyde ferredoxin oxidoreductase
2307	AE008384_922	protein Translation Initiation Factor 5A (IF-5A)
2308	AE008384_923	Agmatinase
2309	AE008384_924	Conserved protein
2310	AE008384_925	Conserved protein

2314	AE008384_2690	Transposase
2315	AE008384_2691	Hypothetical protein
2316	AE008384_2692	Hypothetical protein
2317	AE008384_2693	Hypothetical protein
2320	AE008384_2684	Transposase
2321	AE008384_2685	Transposase
2322	AE008384_2687	Hypothetical protein
2326	AE008384_682	INTEGRAL MEMBRANE PROTEIN
2327	AE008384_681	Conserved protein
2328	AE008384_680	Conserved protein
2329	AE008384_679	Conserved protein
2330	AE008384_678	Conserved protein
2331	AE008384_677	Acetolactate synthase small subunit
2332	AE008384_676	Coenzyme F390 synthetase
2333	AE008384_675	Conserved protein
2334	AE008384_674	Prefoldin beta subunit
2335	AE008384_673	Conserved protein
2336	AE008384_672	Hypothetical protein
2337	AE008384_671	2-isopropylmalate synthase
2338	AE008384_670	Acetolactate synthase large subunit
2339	AE008384_669	Acetolactate synthase small subunit
2340	AE008384_668	Ketol-acid reductoisomerase
2341	AE008384_667	Nitroreductase family protein
2342	AE008384_666	Putative nickel-responsive regulator NikR
2343	AE008384_665	Hypothetical protein
2344	AE008384_664	Glutamate synthase [NADPH]
2345	AE008384_663	Probable dihydroorotate dehydrogenase electron transfer subunit
2347	AE008384_662	Transcriptional regulator, ArsR family
2348	AE008384_661	METHYLTRANSFERASE MANNOSE-6-PHOSPHATE ISOMERASE/ MANNOSE-1-PHOSPHATE GUANYLYL TRANSFERASE
2349	AE008384_660	
2350	AE008384_659	GDP-mannose 4,6 dehydratase
2351	AE008384_658	GDP-FUCOSE SYNTHETASE
2352	AE008384_657	Polysaccharide ABC transporter, permease protein
2353	AE008384_656	Polysaccharide ABC transporter, ATP-binding protein
2354	AE008384_654	MANNOSYLTRANSFERASE
2355	AE008384_653	Glycosyltransferase involved in cell wall biogenesis
2356	AE008384_652	Glycosyltransferase involved in cell wall biogenesis
2357	AE008384_651	Glycosyltransferase involved in cell wall biogenesis
2358	AE008384_650	MANNOSYLTRANSFERASE
2359	AE008384_649	GLUCOSYLTRANSFERASE
2360	AE008384_648	GLYCOSYL TRANSFERASE
2362	AE008384_646	Oligosaccharyl transferase
2363	AE008384_645	3-isopropylmalate dehydratase
2364	AE008384_644	Conserved protein
2365	AE008384_643	Conserved protein
2366	AE008384_642	Isocitrate dehydrogenase [NADP]
2367	AE008384_639	Alpha-acetolactate decarboxylase
2368	AE008384_638	PUTATIVE FLAVODOXIN
2369	AE008384_636	Conserved protein
2370	AE008384_635	FLAVOPROTEIN
2371	AE008384_634	IRON-SULFUR FLAVOPROTEIN
2372	AE008384_633	Hypothetical protein

2373	AE008384_632	Desulfoferrodoxin
2374	AE008384_631	Hypothetical protein
2375	AE008384_630	Zinc finger protein
2377	AE008384_628	Coenzyme F420-dependent N5,N10-methylene tetrahydromethanopterin reductase
2377	AE008384_628	Coenzyme F420-dependent N5,N10-methylene tetrahydromethanopterin reductase
2378	AE008384_627	F420H2 Dehydrogenase Subunit FpoF
2378	AE008384_627	F420H2 Dehydrogenase Subunit FpoF
2379	AE008384_626	Nicotinamide-nucleotide adenyltransferase
2379	AE008384_626	Nicotinamide-nucleotide adenyltransferase
2380	AE008384_625	Conserved protein
2381	AE008384_624	Hypothetical protein
2382	AE008384_623	Transposase
2383	AE008384_622	Transposase
2384	AE008384_621	Hypothetical protein
2385	AE008384_620	Conserved protein
2386	AE008384_619	Conserved protein
2387	AE008384_618	Undecaprenyl pyrophosphate synthetase
2388	AE008384_617	Conserved protein
2389	AE008384_616	Conserved protein
2390	AE008384_614	Long-chain-fatty-acid--CoA ligase
2391	AE008384_613	Conserved protein
2392	AE008384_612	NH ₃ -dependent NAD(+) synthetase
2393	AE008384_611	Iron-sulfur cluster-binding protein
2394	AE008384_610	Acetyltransferases
2395	AE008384_609	Conserved protein
2396	AE008384_608	Probable radical-forming protein
2397	AE008384_606	Hypothetical protein
2398	AE008384_605	Conserved protein
2399	AE008384_604	Conserved protein
2400	AE008384_603	Nucleoside-triphosphatase
2401	AE008384_602	O-sialoglycoprotein endopeptidase
2402	AE008384_601	Conserved protein
2403	AE008384_600	SSU ribosomal protein S27AE
2404	AE008384_599	SSU ribosomal protein S24E
2405	AE008384_598	Hypothetical protein
2406	AE008384_597	DNA-directed RNA polymerase subunit E"
2407	AE008384_596	DNA-directed RNA polymerase subunit E'
2408	AE008384_595	Conserved protein
2409	AE008384_594	protein Translation Initiation Factor 2 subunit gamma (IF-2g)
2410	AE008384_593	Conserved protein
2411	AE008384_592	Integral membrane protein
2412	AE008384_591	Conserved membrane protein
2413	AE008384_590	GLYCEROL 1-PHOSPHATE DEHYDROGENASE (putative)
2414	AE008384_589	Conserved protein
2415	AE008384_588	Conserved protein
2417	AE008384_586	Sulfate adenyltransferase
2418	AE008384_585	Conserved protein
2418	AE008384_585	Conserved protein
2419	AE008384_584	Conserved protein
2420	AE008384_583	Conserved protein
2422	AE008384_582	GLYCOSYLTRANSFERASE
2423	AE008384_581	Conserved protein

2424	AE008384_580	Hypothetical protein
2425	AE008384_579	Transposase
2426	AE008384_578	Phosphate-binding protein
2427	AE008384_577	Phosphate transport ATP-binding protein
2428	AE008384_576	Phosphate transport system protein
2429	AE008384_575	PUTATIVE PHOSPHATE REGULATORY PROTEIN
2430	AE008384_574	ARSENATE REDUCTASE
2431	AE008384_573	Conserved protein
2432	AE008384_572	Alkaline phosphatase
2433	AE008384_571	Transcriptional regulator, Icc related protein
2434	AE008384_570	ABC transporter, ATP-binding protein
2435	AE008384_569	ABC transporter, ATP-binding protein
2436	AE008384_568	Conserved protein
2436	AE008384_568	Conserved protein
2437	AE008384_567	Acetyltransferase
2438	AE008384_566	Hypothetical protein
2439	AE008384_565	Transcriptional regulator
2439	AE008384_565	Transcriptional regulator
2440	AE008384_564	Hypothetical protein
2441	AE008384_563	Hypothetical protein
2442	AE008384_562	Hypothetical protein
2443	AE008384_561	Conserved protein
2444	AE008384_560	Hypothetical protein
2445	AE008384_559	Hypothetical protein
2446	AE008384_558	Hypothetical protein
2447	AE008384_557	Hypothetical protein
2449	AE008384_3371	Conserved protein
2450	AE008384_1	Dipeptide ABC transporter, binding protein
2451	AE008384_2	Dipeptide ABC transporter, binding protein
2452	AE008384_4	Dipeptide ABC transporter, permease protein
2453	AE008384_5	Dipeptide ABC transporter, permease protein
2454	AE008384_6	Dipeptide ABC transporter, ATP-binding protein
2455	AE008384_7	Dipeptide ABC transporter, ATP-binding protein
2456	AE008384_8	Conserved protein
2457	AE008384_9	Conserved protein
2458	AE008384_10	Hypothetical protein
2459	AE008384_11	Conserved protein
2460	AE008384_12	RNA SIGNAL RECOGNITION PARTILCE 4.5S RNA
2461	AE008384_13	Conserved protein
2462	AE008384_14	Undecaprenyl pyrophosphate synthetase
2463	AE008384_15	METHYLTRANSFERASE
2464	AE008384_16	TRANSLATION INITIATION FACTOR 1A (EIF-1A)
2465	AE008384_17	Ubiquinone/menaquinone biosynthesis methyltransferase
2466	AE008384_19	Conserved protein
2467	AE008384_20	Conserved protein
2468	AE008384_22	Hypothetical protein
2469	AE008384_24	Hypothetical protein
2469	AE008384_24	Hypothetical protein
2470	AE008384_25	Hypothetical protein
2471	AE008384_26	Conserved protein
2472	AE008384_27	Conserved protein
2473	AE008384_28	Superfamily I DNA and RNA helicase

2474	AE008384_29	Conserved protein
2475	AE008384_30	O-linked N-acetylglucosamine transferase
2476	AE008384_31	Hypothetical protein
2477	AE008384_33	Conserved protein
2478	AE008384_35	Conserved protein
2479	AE008384_36	Hypothetical protein
2480	AE008384_37	Argininosuccinate synthase
2481	AE008384_38	Carbamoyl-phosphate synthase large chain
2482	AE008384_39	Carbamoyl-phosphate synthase small chain
2483	AE008384_40	Glycine betaine transporter, ATP-binding protein (OtaA)
2483	AE008384_40	Glycine betaine transporter, ATP-binding protein (OtaA)
2484	AE008384_41	Glycine betaine transporter, permease protein (OtaB)
2484	AE008384_41	Glycine betaine transporter, permease protein (OtaB)
2485	AE008384_42	Glycine betaine transporter, substrate-binding protein (OtaC)
2486	AE008384_43	Conserved protein
2487	AE008384_44	Hypothetical protein
2488	AE008384_45	Hypothetical protein
2489	AE008384_46	Hypothetical protein
2490	AE008384_47	Acetylornithine aminotransferase
2491	AE008384_48	Aldehyde dehydrogenase
2492	AE008384_49	Conserved protein
2492	AE008384_49	Conserved protein
2493	AE008384_50	Glutamyl-tRNA (Gln) amidotransferase
2494	AE008384_51	Hypothetical protein
2495	AE008384_52	Transposase
2496	AE008384_54	Transposase
2497	AE008384_55	Universal stress protein
2500	AE008384_57	TUNGSTEN FORMYLMETHANOFURAN DEHYDROGENASE, SUBUNIT F
2501	AE008384_58	Ferredoxin-thioredoxin reductase, catalytic chain
2502	AE008384_59	Tungsten formylmethanofuran dehydrogenase subunit B
2502	AE008384_59	TUNGSTEN-CONTAINING FORMYLMETHANOFURAN DEHYDROGENASE SUBUNIT B
2503	AE008384_60	TUNGSTEN FORMYLMETHANOFURAN DEHYDROGENASE, SUBUNIT D
2504	AE008384_61	Conserved protein
2505	AE008384_62	SAM-dependent methyltransferases
2506	AE008384_63	SURFACE LAYER PROTEIN B
2507	AE008384_64	SURFACE LAYER PROTEIN B
2508	AE008384_66	CONSERVED PROTEIN
2509	AE008384_67	Hypothetical protein
2510	AE008384_68	N-methylhydantoinase (ATP hydrolyzing)
2511	AE008384_69	Sodium-dependent transporter
2512	AE008384_70	Putative ribosomal RNA methyltransferase
2513	AE008384_71	CONSERVED PROTEIN (Archaea)
2514	AE008384_72	Thermosome b-subunit
2515	AE008384_73	Ribose 5-phosphate isomerase
2516	AE008384_74	Aspartyl-tRNA synthetase
2517	AE008384_75	Conserved protein
2518	AE008384_76	Hypothetical protein
2519	AE008384_77	Hypothetical protein
2520	AE008384_78	Xanthine-guanine phosphoribosyltransferase
2521	AE008384_79	Conserved protein
2522	AE008384_80	Hypothetical protein
2523	AE008384_81	Hypothetical Cytosolic protein

2524	AE008384_82	Phosphoserine phosphatase
2525	AE008384_84	Shikimate kinase
2526	AE008384_85	Conserved protein
2527	AE008384_86	Hypothetical protein
2528	AE008384_87	Pyrimidine-nucleoside phosphorylase
2529	AE008384_88	Transporter
2530	AE008384_90	Conserved protein
2531	AE008384_91	ABC transporter permease protein
2532	AE008384_92	Conserved protein
2533	AE008384_93	Cobyrinic acid synthase
2534	AE008384_95	Conserved protein
2535	AE008384_96	Transposase
2536	AE008384_97	Ornithine cyclodeaminase
2537	AE008384_98	Conserved protein
2538	AE008384_99	O-linked N-acetylglucosamine transferase
2539	AE008384_100	Conserved protein
2540	AE008384_101	Conserved protein
2541	AE008384_102	Serine/threonine protein phosphatase
2542	AE008384_103	O-linked N-acetylglucosamine transferase
2543	AE008384_105	Hypothetical protein
2544	AE008384_106	FxsA protein
2545	AE008384_107	Hypothetical protein
2546	AE008384_108	Hypothetical protein
2547	AE008384_109	Cysteine desulfhydrase
2548	AE008384_110	NifU protein
2549	AE008384_111	Ribosomal protein S6 modification protein
2550	AE008384_112	Hypothetical protein
2551	AE008384_113	Conserved protein
2553	AE008384_114	Conserved protein
2554	AE008384_115	Putative transmembrane efflux protein
2555	AE008384_116	Transcriptional regulator, MarR family
2556	AE008384_117	Hypothetical protein
2558	AE008384_118	CTP synthase
2559	AE008384_119	Hypothetical protein
2560	AE008384_121	Carbon monoxide dehydrogenase
2561	AE008384_122	Iron-sulfur protein
2562	AE008384_123	Universal stress protein
2563	AE008384_124	Conserved protein
2564	AE008384_125	Universal stress protein
2565	AE008384_126	PmbA protein
2566	AE008384_127	Zinc metalloprotease
2567	AE008384_128	ATP-dependent protease La
2568	AE008384_129	Conserved protein
2569	AE008384_130	Conserved protein
2570	AE008384_131	Conserved protein
2571	AE008384_132	Conserved protein
2572	AE008384_133	Threonine synthase
2573	AE008384_134	Sulfolpyruvate decarboxylase alpha chain
2574	AE008384_135	Ferredoxin oxidoreductase
2575	AE008384_136	Zn-dependent hydrolase
2576	AE008384_137	Conserved protein
2577	AE008384_138	CONSERVED PROTEIN (Archaea)

2578	AE008384_139	Cytochrome c-type biogenesis protein
2579	AE008384_140	Putative Cytochrome c biogenesis factors
2580	AE008384_141	Conserved protein
2581	AE008384_142	Orotate phosphoribosyltransferase
2582	AE008384_143	4-carboxymuconolactone decarboxylase
2584	AE008384_144	Phosphoribosylamine--glycine ligase
2585	AE008384_145	Ornithine carbamoyltransferase
2586	AE008384_146	Transcriptional regulator
2587	AE008384_147	IRON-SULFUR FLAVOPROTEIN
2588	AE008384_148	Conserved protein
2589	AE008384_150	putative nucleoside-diphosphate-sugar epimerase
2590	AE008384_151	Conserved protein
2591	AE008384_152	DNA integration/recombination/inversion protein
2592	AE008384_153	Conserved protein
2593	AE008384_154	Conserved protein
2594	AE008384_155	Conserved protein
2595	AE008384_156	TYPE IIS RESTRICTION ENZYME
2597	AE008384_157	ATP-dependent DNA helicase
2598	AE008384_158	ATP-dependent DNA helicase
2599	AE008384_159	Hypothetical protein
2600	AE008384_162	Conserved protein
2601	AE008384_163	DNA repair protein
2602	AE008384_164	ATP-dependent protease La
2603	AE008384_166	HOMOSPERMIDINE SYNTHASE
2604	AE008384_167	Cobalt-zinc-cadmium resistance protein
2605	AE008384_168	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
2606	AE008384_169	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
2607	AE008384_170	Transposase
2608	AE008384_171	Transposase
2609	AE008384_172	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
2610	AE008384_173	Transporter
2611	AE008384_174	Methanol corrinoid protein
2612	AE008384_175	Methanol:corrinoid methyltransferase MtaB
2613	AE008384_176	Methylcobalamin:coenzyme M methyltransferase
2614	AE008384_177	Conserved protein
2615	AE008384_178	Conserved protein
2616	AE008384_179	Conserved protein
2617	AE008384_180	Diamine acetyltransferase
2618	AE008384_181	Conserved protein
2619	AE008384_182	Thiamine biosynthesis protein
2620	AE008384_183	DNA topoisomerase III
2621	AE008384_184	SSU ribosomal protein S3AE
2623	AE008384_185	Short chain dehydrogenase/reductase
2624	AE008384_186	Conserved protein
2625	AE008384_187	NUCLEOTIDYLTRANSFERASE
2626	AE008384_188	Hypothetical nucleotidyltransferase
2627	AE008384_189	Conserved protein
2631	AE008384_191	Transposase
2632	AE008384_192	Hypothetical protein
2633	AE008384_193	TYPE III RESTRICTION-MODIFICATION SYSTEM METHYLATION SUBUNIT
2634	AE008384_194	Conserved protein
2635	AE008384_195	Conserved protein

2636	AE008384_196	Conserved protein
2637	AE008384_197	Conserved protein
2638	AE008384_198	ATP-dependent DNA helicase
2639	AE008384_199	Conserved protein
2640	AE008384_200	Conserved protein
2641	AE008384_201	Conserved protein
2642	AE008384_202	Hypothetical protein
2643	AE008384_203	Hypothetical protein
2644	AE008384_204	Hypothetical protein
2645	AE008384_205	Conserved protein
2646	AE008384_206	Conserved protein
2646	AE008384_206	Conserved protein
2648	AE008384_207	Hypothetical protein
2649	AE008384_208	Hypothetical protein
2650	AE008384_209	Hypothetical protein
2651	AE008384_210	Conserved protein
2652	AE008384_211	Cysteine proteinase
2653	AE008384_212	Conserved protein
2654	AE008384_213	Putative single-stranded-DNA-specific exonuclease
2655	AE008384_214	Hypothetical protein
2656	AE008384_215	Hypothetical protein
2657	AE008384_216	Conserved protein
2658	AE008384_217	Conserved protein
2659	AE008384_218	Conserved protein
2660	AE008384_219	Conserved protein
2661	AE008384_221	Fe-S OXIDOREDUCTASE
2662	AE008384_222	THIAZOLE BIOSYNTHETIC ENZYME
2663	AE008384_223	Hypothetical protein
2664	AE008384_224	Molybdenum-pterin-binding-protein
2665	AE008384_225	Conserved protein
2667	AE008384_226	Conserved protein
2668	AE008384_230	SODIUM-CALCIUM EXCHANGER
2669	AE008384_231	Hypothetical protein
2670	AE008384_232	Hypothetical protein
2671	AE008384_233	Alanyl-tRNA synthetase
2672	AE008384_234	Conserved protein
2673	AE008384_235	Conserved protein
2674	AE008384_236	PUTATIVE MECHANONSENSITIVE ION CHANNEL
2675	AE008384_237	Conserved protein
2676	AE008384_238	Hypothetical protein
2677	AE008384_239	Conserved protein
2678	AE008384_240	Ferredoxin
2679	AE008384_241	Hypothetical protein
2680	AE008384_242	Glycerol-3-phosphate cytidylyltransferase
2681	AE008384_243	Aspartate aminotransferase
2682	AE008384_244	Riboflavin synthase, subunit beta
2683	AE008384_245	Riboflavin synthase, subunit alpha
2685	AE008384_2682	Transposase
2686	AE008384_2681	Hypothetical protein
2687	AE008384_2680	Conserved protein
2688	AE008384_2679	Conserved protein
2689	AE008384_2677	Conserved protein

2690	AE008384_2676	Conserved protein
2691	AE008384_2675	Serine protease inhibitor
2692	AE008384_2674	Conserved protein
2693	AE008384_2673	Hypothetical protein
2694	AE008384_2672	Conserved protein
2695	AE008384_2671	Hypothetical protein
2696	AE008384_2670	Hypothetical protein
2697	AE008384_2669	Conserved protein
2698	AE008384_2668	Hypothetical protein
2699	AE008384_2667	MoxR-like ATPase
2700	AE008384_2666	Conserved protein
2701	AE008384_2665	ABC transporter, ATP-binding protein
2702	AE008384_2664	Conserved protein
2703	AE008384_2663	Conserved protein
2704	AE008384_2662	(Na ⁺)-linked D-alanine glycine permease
2705	AE008384_2661	Hypothetical protein
2706	AE008384_2660	SODIUM-CALCIUM EXCHANGER PROTEIN
2707	AE008384_2659	Acetyltransferase
2708	AE008384_2658	Acetyltransferase
2709	AE008384_2657	transcriptional regulator
2710	AE008384_2656	Peptidyl-prolyl cis-trans isomerase
2711	AE008384_2655	Hypothetical protein
2712	AE008384_2654	Hypothetical protein
2713	AE008384_2653	N5,N10-methenyltetrahydromethanopterin cyclohydrolase
2713	AE008384_2653	N5,N10-methenyltetrahydromethanopterin cyclohydrolase
2714	AE008384_2652	Hypothetical protein
2715	AE008384_2650	HYDROLASE
2716	AE008384_2649	Aspartate aminotransferase
2717	AE008384_2648	Hypothetical protein
2719	AE008384_2646	Sensory Transduction protein Kinase
2720	AE008384_2645	Aldehyde ferredoxin oxidoreductase
2720	AE008384_2645	Aldehyde ferredoxin oxidoreductase
2721	AE008384_2644	Putative molybdopterin converting factor
2722	AE008384_2643	Hypothetical protein
2723	AE008384_2642	Hypothetical protein
2724	AE008384_2641	Conserved protein
2725	AE008384_2640	Magnesium and cobalt transport protein CorA
2726	AE008384_2639	Conserved protein
2727	AE008384_2638	Hypothetical protein
2728	AE008384_2637	Hypothetical protein
2729	AE008384_2636	Coenzyme F390 synthetase
2730	AE008384_2635	Putative pyruvate:ferredoxin oxidoreductase
2731	AE008384_2634	Indolpyruvate ferredoxin oxidoreductase, alpha subunit
2732	AE008384_2633	Hypothetical protein
2735	AE008384_2632	NAD-dependent malic enzyme
2736	AE008384_2631	Hypothetical protein
2737	AE008384_2630	Conserved protein
2738	AE008384_2629	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
2739	AE008384_2628	Conserved protein
2740	AE008384_2627	Conserved protein
2741	AE008384_2625	LSU ribosomal protein L37AE
2742	AE008384_2624	Ribonuclease

2743	AE008384_2623	Ribonuclease
2744	AE008384_2622	Hypothetical protein
2745	AE008384_2621	Hypothetical protein
2746	AE008384_2620	Proteasome, subunit-alpha
2747	AE008384_2619	Hypothetical protein
2748	AE008384_2618	Hypothetical protein
2749	AE008384_2617	Hypothetical protein
2750	AE008384_2616	LSU ribosomal protein L15E
2750	AE008384_2616	LSU ribosomal protein L15E
2751	AE008384_2615	Hypothetical protein
2752	AE008384_2614	Hypothetical protein
2755	AE008384_2612	Probable ATP-dependent helicase
2756	AE008384_2611	Hypothetical protein
2757	AE008384_2610	Type I restriction enzyme
2758	AE008384_2609	NUCLEOTIDYLTRANSFERASE
2759	AE008384_2608	NUCLEOTIDYLTRANSFERASE
2760	AE008384_2607	NUCLEOTIDYLTRANSFERASE
2761	AE008384_2606	Hypothetical protein
2762	AE008384_2604	Conserved protein
2763	AE008384_2603	Hypothetical protein
2764	AE008384_2602	Hypothetical protein
2765	AE008384_2601	Zinc metalloprotease
2766	AE008384_2600	Conserved protein
2767	AE008384_2598	Hypothetical protein
2770	AE008384_816	Transposase
2774	AE008384_739	Transposase
2775	AE008384_738	Conserved protein
2776	AE008384_737	Conserved protein
2777	AE008384_736	Transporter
2778	AE008384_735	Conserved protein
2779	AE008384_734	Hypothetical protein
2780	AE008384_733	Ammonium transporter
2780	AE008384_733	Ammonium transporter
2781	AE008384_732	Nitrogen regulatory protein P-II
2782	AE008384_730	SAM-dependent methyltransferases
2783	AE008384_729	Conserved protein
2784	AE008384_728	MOLYBDENUM TRANSPORTER, ATP-BINDING PROTEIN
2785	AE008384_727	Molybdenum transporter, permease protein
2786	AE008384_726	Molybdate-binding protein
2787	AE008384_725	Nitrogenase iron-molybdenum cofactor biosynthesis protein NifN
2788	AE008384_724	Nitrogenase iron-molybdenum cofactor biosynthesis protein
2789	AE008384_723	Nitrogenase molybdenum-iron protein beta chain
2790	AE008384_722	Nitrogenase molybdenum-iron protein alpha chain
2791	AE008384_721	Nifl(2), GlnB-like protein
2792	AE008384_720	NITROGEN FIXATION NIFHD REGION GLNB-LIKE PROTEIN
2793	AE008384_719	Nitrogenase iron protein
2794	AE008384_718	Oxidoreductase (flavoprotein)
2795	AE008384_717	Hypothetical protein
2795	AE008384_717	Hypothetical protein
2796	AE008384_716	Hypothetical protein
2797	AE008384_715	Pyruvate kinase
2797	AE008384_715	Pyruvate kinase

2798	AE008384_714	Fructose-bisphosphate aldolase
2802	AE008384_689	CO DEHYDROGENASE/ACETYL-COA SYNTHASE GAMMA SUBUNIT
2802	AE008384_689	CO DEHYDROGENASE/ACETYL-COA SYNTHASE GAMMA SUBUNIT
2803	AE008384_690	Conserved protein
2804	AE008384_691	Hypothetical protein
2805	AE008384_692	Transcription initiation factor IIE, alpha subunit
2806	AE008384_693	Conserved protein
2807	AE008384_694	Proteasome, beta subunit
2808	AE008384_695	CLEAVAGE AND POLYADENYLATION SPECIFICITY FACTOR, 100 KD SUBUNIT
2809	AE008384_696	Beta-phosphoglucomutase
2810	AE008384_697	Cell division protein
2811	AE008384_698	Dihydropteroate synthase
2812	AE008384_699	Conserved protein
2813	AE008384_700	VACUOLAR-TYPE H+-PYROPHOSPHATASE
2813	AE008384_700	VACUOLAR-TYPE H+-PYROPHOSPHATASE
2814	AE008384_701	VACUOLAR-TYPE H+-PYROPHOSPHATASE
2814	AE008384_701	VACUOLAR-TYPE H+-PYROPHOSPHATASE
2815	AE008384_702	Hypothetical permease
2816	AE008384_703	Hypothetical permease
2820	AE008384_707	Prolyl-tRNA synthetase
2821	AE008384_708	Conserved protein
2824	AE008384_2344	Copper-binding protein
2825	AE008384_2343	Copper-binding protein
2826	AE008384_2342	Hypothetical protein
2827	AE008384_2341	Succinate-semialdehyde dehydrogenase [NADP+]
2828	AE008384_2340	Acetolactate synthase
2829	AE008384_2339	TRANSLATION INITIATION FACTOR 1A
2830	AE008384_2338	DNA-directed RNA polymerases I, II, and III, 7.3 kDa polypeptide
2831	AE008384_2336	TRANSLATION INITIATION FACTOR 1A (EIF-1A)
2832	AE008384_2333	Multidrug efflux pump
2833	AE008384_2332	SAM-dependent methyltransferases
2834	AE008384_2331	Uncharacterized permease
2835	AE008384_2328	Copper-exporting ATPase
2836	AE008384_2327	COP associated protein
2837	AE008384_2326	COP associated protein
2838	AE008384_2325	Ech Hydrogenase, Subunit
2839	AE008384_2324	Ech Hydrogenase, Subunit
2840	AE008384_2323	Ech Hydrogenase, Subunit
2841	AE008384_2322	Ech Hydrogenase, Subunit
2842	AE008384_2321	Ech Hydrogenase, Subunit
2843	AE008384_2320	Ech Hydrogenase, Subunit
2844	AE008384_2319	Hydrogenase expression/formation protein
2845	AE008384_2318	HYDROGENASE EXPRESSION/FORMATION PROTEIN
2846	AE008384_2317	HYDROGENASE EXPRESSION/FORMATION PROTEIN
2847	AE008384_2316	Hydrogenase expression/formation protein
2847	AE008384_2316	Hydrogenase expression/formation protein
2848	AE008384_2315	Hydrogenase expression/formation protein
2849	AE008384_2314	F420-NONREDUCING HYDROGENASE I PRECURSOR
2850	AE008384_2313	F420-NONREDUCING HYDROGENASE I, LARGE SUBUNIT
2851	AE008384_2312	F420-NONREDUCING HYDROGENASE I, CYTOCHROME B SUBUNIT
2852	AE008384_2311	COP associated protein
2853	AE008384_2310	UBIQUINONE BIOSYNTHESIS PROTEIN

2854	AE008384_2309	Hypothetical protein
2855	AE008384_2308	METHYLTRANSFERASE
2856	AE008384_2307	Argininosuccinate lyase
2857	AE008384_2306	L-asparaginase
2858	AE008384_2305	Sodium/proline symporter
2860	AE008384_2873	L-sorbose dehydrogenase
2861	AE008384_2872	METHYLTRANSFERASE
2862	AE008384_2870	Hypothetical protein
2863	AE008384_2869	Hypothetical protein
2864	AE008384_2867	Coenzyme F390 Synthetase/Phenylacetate-CoA Ligase
2866	AE008384_2865	Conserved protein
2867	AE008384_2864	Conserved protein
2868	AE008384_2862	Hypothetical protein
2869	AE008384_2861	Transcriptional regulator, ArsR family
2870	AE008384_2860	Conserved protein
2871	AE008384_2859	Hypothetical protein
2872	AE008384_2858	Potassium channel protein
2873	AE008384_2857	Hypothetical protein
2874	AE008384_2856	ABC transporter, ATP-binding protein
2875	AE008384_2855	ABC Transporter, permease protein
2876	AE008384_2854	Hypothetical protein
2877	AE008384_2853	Hypothetical protein
2878	AE008384_2852	Membrane protein related to SecD/SecE
2879	AE008384_2851	Transcriptional regulator, MarR family
2880	AE008384_2850	ABC transporter, permease protein
2881	AE008384_2849	Hypothetical permease
2882	AE008384_2848	Conserved protein
2883	AE008384_2847	Amino acid permease
2884	AE008384_2846	Putrescine-ornithine antiporter
2885	AE008384_2845	Hypothetical protein
2886	AE008384_2844	Hypothetical protein
2887	AE008384_2843	Hypothetical protein
2888	AE008384_2842	5-NITROIMIDAZOLE ANTIBIOTIC RESISTANCE PROTEIN
2889	AE008384_2841	Acetolactate synthase
2890	AE008384_2837	Hypothetical protein
2891	AE008384_2839	MoxR-like ATPase
2892	AE008384_2837	Transposase
2893	AE008384_2836	Enolase
2894	AE008384_2835	Hypothetical protein
2895	AE008384_2834	Hypothetical protein
2896	AE008384_2833	ABC transporter, ATP-binding protein
2897	AE008384_2832	ABC-Type transporter, permease protein
2898	AE008384_2831	ABC-Type transporter, permease protein
2899	AE008384_2830	Ribonucleoside-diphosphate
2900	AE008384_2829	Peptidyl-prolyl cis-trans isomerase
2901	AE008384_2828	Conserved protein
2902	AE008384_2827	Hypothetical protein
2903	AE008384_2826	Conserved protein
2904	AE008384_2825	Hypothetical protein
2905	AE008384_2824	GLUCOSE-6-PHOSPHATE DEHYDROGENASE [coenzyme F420 dependent]
2906	AE008384_2823	Indole-3-glycerol phosphate synthase
2907	AE008384_2822	Tryptophan synthase, beta chain

2908	AE008384_2821	Tryptophan synthase, alpha chain
2910	AE008384_2820	Anthranilate phosphoribosyltransferase
2911	AE008384_2819	N-5'-phosphoribosyl)anthranilate isomerase
2913	AE008384_2440	Conserved protein
2914	AE008384_2441	Transcriptional regulator, ArsR family
2915	AE008384_2442	Conserved protein
2916	AE008384_2445	Conserved protein
2917	AE008384_2447	Transposase
2918	AE008384_2448	Transposase
2919	AE008384_2449	Conserved protein
2921	AE008384_2451	Conserved protein
2921	AE008384_2451	Conserved protein
2922	AE008384_2452	Conserved protein
2923	AE008384_2453	Conserved protein
2924	AE008384_2454	ABC transporter, permease protein
2925	AE008384_2455	ABC transporter, ATP-binding protein
2926	AE008384_2456	Dipeptide/oligopeptide transporter, ATP-binding protein
2927	AE008384_2457	Dipeptide/oligopeptide transporter, permease protein
2928	AE008384_2458	Dipeptide/oligopeptide transporter, permease protein
2929	AE008384_2459	METHYLTRANSFERASE
2930	AE008384_2460	Dipeptide/oligopeptide-binding protein
2931	AE008384_2462	SSU ribosomal protein S6E
2932	AE008384_2463	protein Translation Initiation Factor IF2
2933	AE008384_2464	Nucleoside diphosphate kinase
2934	AE008384_2466	SSU ribosomal protein S28E
2935	AE008384_2467	LSU ribosomal protein L7AE
2936	AE008384_253	REPLICATION FACTOR C SUBUNIT
2937	AE008384_252	CONSERVED PROTEIN (Archaea)
2939	AE008384_249	BRAMP
2940	AE008384_248	Cell division cycle protein (AAA family ATPase)
2941	AE008384_247	Putative inosine monophosphate dehydrogenase
2944	AE008384_1248	SUA5 protein
2945	AE008384_1249	Ribulose biphosphate carboxylase large chain
2945	AE008384_1249	Ribulose biphosphate carboxylase large chain
2946	AE008384_1250	Cation transporter
2947	AE008384_1251	Cation transporter
2955	AE008384_1253	Cation transporter
2956	AE008384_1254	Putative heat shock protein
2957	AE008384_1255	Putative heat shock protein
2958	AE008384_1256	CdcH protein
2959	AE008384_1257	Transcriptional regulator, ArsR family
2962	AE008384_2431	Conserved protein
2963	AE008384_2432	Putative pyridoxine biosynthesis protein
2964	AE008384_2433	Imidazoleglycerol-phosphate synthase
2965	AE008384_2435	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
2966	AE008384_2436	Transposase
2969	AE008384_770	Conserved protein
2970	AE008384_769	Phosphohydrolase
2971	AE008384_768	GLYCOSYL TRANSFERASE
2972	AE008384_767	Conserved protein
2973	AE008384_766	Transposase
2974	AE008384_765	Conserved protein

2975	AE008384_764	Conserved protein
2976	AE008384_763	Conserved protein
2977	AE008384_762	Conserved protein
2978	AE008384_761	THIAMIN-MONOPHOSPHATE KINASE
2979	AE008384_760	Ferredoxin
2980	AE008384_759	NifB protein
2981	AE008384_757	NifB protein
2982	AE008384_756	6-pyruvoyltetrahydropterin synthase
2983	AE008384_755	Conserved protein
2984	AE008384_754	Conserved protein
2985	AE008384_753	Conserved protein
2986	AE008384_752	Conserved protein
2987	AE008384_751	Putative serine/threonine protein phosphatase
2988	AE008384_750	Dihydropyrimidinase
2989	AE008384_749	Glutathione-independent formaldehyde dehydrogenase
2990	AE008384_748	Conserved protein
2991	AE008384_747	ATP-dependent RNA helicase
2992	AE008384_746	Conserved protein
2993	AE008384_745	Conserved protein
2994	AE008384_744	Conserved protein
2995	AE008384_743	Conserved protein
2996	AE008384_742	Arsenical-resistance protein
3001	AE008384_1263	Conserved protein
3002	AE008384_1264	Hypothetical protein
3003	AE008384_1265	Hypothetical protein
3004	AE008384_1266	Conserved protein
3005	AE008384_1267	SIGNAL RECOGNITION PARTICLE, SUBUNIT FFH/SRP54
3006	AE008384_1270	GMP synthase [glutamine-hydrolyzing]
3007	AE008384_1271	2-dehydro-3-desoxyphosphoheptanote aldolase
3008	AE008384_1272	3-dehydroquinate synthase
3009	AE008384_1273	3-dehydroquinate dehydratase
3010	AE008384_1274	Shikimate 5-dehydrogenase
3011	AE008384_1275	Prephenate dehydrogenase
3012	AE008384_1276	Hypothetical protein
3013	AE008384_1277	METHYLTRANSFERASE
3014	AE008384_1278	Triosephosphate isomerase
3015	AE008384_1279	Conserved protein involved in sugar metabolism
3016	AE008384_1280	Endonuclease III
3017	AE008384_1281	Conserved protein
3018	AE008384_1282	Conserved protein
3019	AE008384_1283	Bacterioferritin
3019	AE008384_1283	Bacterioferritin
3021	AE008384_1148	Conserved protein
3022	AE008384_1149	Hypothetical protein
3023	AE008384_1151	Acetyltransferase
3024	AE008384_1152	Aspartate aminotransferase
3025	AE008384_1153	Myo-inositol 2-dehydrogenase
3026	AE008384_1154	NDP-N-acetyl-D-galactosaminuronic acid dehydrogenase
3027	AE008384_1155	Conserved protein
3028	AE008384_1156	O-antigen translocase
3029	AE008384_1157	Conserved protein
3030	AE008384_1158	Conserved protein

3031	AE008384_1159	Hypothetical protein
3036	AE008384_2982	ANTIBIOTIC RESISTANCE PROTEIN
3037	AE008384_2984	Putative ferredoxin
3038	AE008384_2985	Transcriptional regulator, ArsR family
3039	AE008384_2986	Hypothetical protein
3040	AE008384_2987	Hypothetical protein
3041	AE008384_2988	Conserved protein
3042	AE008384_2989	Pyruvate formate-lyase activating enzyme
3043	AE008384_2990	HYPOTHETICAL SENSORY TRANSDUCTION HISTIDINE KINASE
3044	AE008384_2991	Hypothetical protein
3045	AE008384_2992	Putative NADH oxidase
3046	AE008384_2993	Phosphoglycerate mutase
3047	AE008384_2994	Conserved protein
3048	AE008384_2995	Hypothetical protein
3049	AE008384_2996	Hypothetical protein
3050	AE008384_2997	Hypothetical protein
3051	AE008384_2998	Transposase
3052	AE008384_2999	Transposase
3053	AE008384_3000	DNA REPAIR HELICASE (RAD25/XPB family)
3054	AE008384_3001	Hypothetical protein
3055	AE008384_3002	Hypothetical protein
3056	AE008384_3003	Conserved protein
3057	AE008384_3004	Conserved protein
3058	AE008384_3005	Acetyltransferase
3059	AE008384_3006	Probable resolvase/ recombinase
3060	AE008384_3007	Probable transcriptional regulator
3060	AE008384_3007	Probable transcriptional regulator
3061	AE008384_3008	Probable resolvase/ recombinase
3062	AE008384_3009	Membrane metalloprotease
3063	AE008384_3010	Periplasmic divalent cation tolerance protein
3064	AE008384_3011	Hypothetical protein
3065	AE008384_3012	Hypothetical protein
3066	AE008384_3013	ABC transporter, permease protein
3067	AE008384_3014	Conserved protein
3068	AE008384_3015	Hypothetical protein
3069	AE008384_3016	Cobalt transport ATP-binding protein
3069	AE008384_3016	Cobalt transport ATP-binding protein
3070	AE008384_3017	ABC transporter, permease protein
3071	AE008384_3018	Conserved protein
3072	AE008384_3019	Conserved protein
3073	AE008384_3020	Conserved protein
3074	AE008384_3021	ABC transporter, ATP-binding protein
3075	AE008384_3022	Conserved protein
3076	AE008384_3023	Conserved protein
3077	AE008384_3024	Conserved protein
3078	AE008384_3025	Hypothetical protein
3079	AE008384_3026	Hypothetical protein
3080	AE008384_3027	Transposase
3081	AE008384_3028	Deoxycytidylate deaminase
3082	AE008384_3029	Lactoylglutathione lyase
3083	AE008384_3032	Conserved protein
3085	AE008384_3036	Hypothetical protein

3087	AE008384_1730	Transposase
3088	AE008384_1732	Transcriptional regulator, ArsR family
3089	AE008384_1734	Conserved protein
3092	AE008384_308	Uroporphyrinogen-III synthase
3093	AE008384_309	Metallo cofactor biosynthesis protein (moaA/ nifB /pqqE family)
3094	AE008384_310	Hypothetical protein
3095	AE008384_311	Conserved protein
3096	AE008384_312	Hypothetical protein
3097	AE008384_313	Hypothetical protein
3098	AE008384_314	Valyl-tRNA synthetase
3099	AE008384_315	Hypothetical protein
3100	AE008384_316	FLAGELLA RELATED PROTEIN FlaJ
3101	AE008384_317	FLAGELLA RELATED PROTEIN FlaI
3102	AE008384_318	FLAGELLA RELATED PROTEIN FlaH
3103	AE008384_319	Conserved protein
3104	AE008384_320	Hypothetical protein
3105	AE008384_321	Hypothetical protein
3106	AE008384_322	Flagellin B1 precursor
3106	AE008384_322	Flagellin B1 precursor
3107	AE008384_323	Flagellin B1 precursor
3108	AE008384_325	CHEMOTAXIS PROTEIN METHYLTRANSFERASE
3109	AE008384_326	Chemotaxis protein
3110	AE008384_327	Chemotaxis protein
3111	AE008384_328	Chemotaxis protein
3112	AE008384_329	Protein-glutamate methylesterase
3113	AE008384_330	Chemotaxis protein
3114	AE008384_331	Hypothetical Exported protein
3115	AE008384_332	Chemotaxis protein
3115	AE008384_332	Chemotaxis protein
3116	AE008384_333	Methyl-accepting chemotaxis protein
3117	AE008384_334	Hypothetical protein
3118	AE008384_335	3-hydroxy-3-methylglutaryl-coenzyme A reductase
3119	AE008384_336	Conserved protein
3120	AE008384_337	Tryptophan synthase, beta chain
3121	AE008384_338	Putative snRNP Sm-like protein
3121	AE008384_338	P U T A T I V E P H O S P H O M E T H Y L P Y R I M I D I N E KINASE/HYDROXYMETHYLPYRIMIDINE KINASE
3122	AE008384_339	Putative snRNP Sm-like protein
3123	AE008384_341	Amidophosphoribosyltransferase
3124	AE008384_342	Hypothetical protein
3125	AE008384_344	Probable cation efflux pump
3126	AE008384_345	Transcriptional regulator
3127	AE008384_346	Transcriptional regulator, MarR family
3128	AE008384_347	Hypothetical protein
3129	AE008384_348	Putative cation efflux pump
3130	AE008384_350	Putative molybdopterin biosynthesis protein
3131	AE008384_351	Conserved protein
3132	AE008384_353	Conserved protein
3133	AE008384_354	Hypothetical protein
3134	AE008384_356	Conserved protein
3135	AE008384_357	Glutamate dehydrogenase
3136	AE008384_358	Acetyl-CoA synthetase, alpha subunit
3137	AE008384_359	Hypothetical protein

3138	AE008384_360	Sulfite reductase, assimilatory-type
3139	AE008384_361	Transcriptional regulator, MarR family
3140	AE008384_362	Sulfite reductase, assimilatory-type
3141	AE008384_363	Hypothetical protein
3142	AE008384_364	Hypothetical protein
3143	AE008384_365	Conserved protein
3144	AE008384_366	Ferredoxin
3145	AE008384_367	Hypothetical protein
3146	AE008384_368	Hypothetical protein
3147	AE008384_369	Hypothetical protein
3148	AE008384_370	CHORISMATE MUTASE/ PREPHENATE DEHYDRATASE
3149	AE008384_371	Conserved protein
3150	AE008384_372	MoxR-like ATPase
3151	AE008384_373	Hypothetical Cytosolic protein
3152	AE008384_374	Conserved protein
3153	AE008384_375	Conserved protein
3154	AE008384_376	Conserved protein
3155	AE008384_377	Integral membrane protein
3156	AE008384_378	SUGAR-PHOSPHATE NUCLEOTIDYL TRANSFERASE
3157	AE008384_379	Conserved protein
3158	AE008384_380	Peptidyl-prolyl cis-trans isomerase
3159	AE008384_381	Peptidyl-prolyl cis-trans isomerase
3160	AE008384_382	Peptidyl-prolyl cis-trans isomerase
3161	AE008384_383	Hypothetical protein
3162	AE008384_384	Conserved protein
3163	AE008384_385	Hypothetical protein
3164	AE008384_386	Hypothetical protein
3165	AE008384_387	HETERODISULFIDE REDUCTASE, SUBUNIT HDRA
3166	AE008384_388	HETERODISULFIDE REDUCTASE, SUBUNIT HDRC
3167	AE008384_389	HETERODISULFIDE REDUCTASE, SUBUNIT HDRB
3167	AE008384_389	HETERODISULFIDE REDUCTASE, SUBUNIT HDRB
3168	AE008384_390	Surface layer protein (putative)
3169	AE008384_391	Hypothetical protein
3170	AE008384_392	Hypothetical protein similar to C-terminal domain of HdrB
3171	AE008384_393	Conserved protein
3172	AE008384_394	Conserved protein
3173	AE008384_395	Surface layer protein (putative)
3174	AE008384_396	Transposase
3175	AE008384_398	Conserved protein
3176	AE008384_399	Hypothetical protein similar to C-terminal domain of HdrB
3177	AE008384_400	Conserved protein
3178	AE008384_401	Conserved protein
3179	AE008384_402	Conserved protein
3180	AE008384_403	Hypothetical protein similar to C-terminal domain of HdrB
3181	AE008384_404	Hypothetical protein
3182	AE008384_405	Surface layer protein (putative)
3183	AE008384_406	Conserved protein
3184	AE008384_407	Hypothetical protein similar to C-terminal domain of HdrB
3184	AE008384_407	Hypothetical protein similar to C-terminal domain of HdrB
3184	AE008384_407	Hypothetical protein similar to C-terminal domain of HdrB
3184	AE008384_407	Hypothetical protein similar to C-terminal domain of HdrB
3185	AE008384_408	Hypothetical protein

3186	AE008384_409	3-isopropylmalate dehydratase
3187	AE008384_410	Hypothetical protein
3188	AE008384_411	Conserved protein
3189	AE008384_412	FLAGELLA RELATED PROTEIN FlaJ
3190	AE008384_413	FLAGELLA RELATED PROTEIN FlaI
3191	AE008384_414	FLAGELLA RELATED PROTEIN FlaH
3193	AE008384_416	Conserved protein
3194	AE008384_417	Conserved protein
3195	AE008384_418	Flagillin B1
3196	AE008384_419	Pyruvate synthase, subunit beta
3197	AE008384_420	Pyruvate synthase, subunit alpha
3198	AE008384_421	Transposase
3199	AE008384_422	Transposase
3203	AE008384_120	Conserved protein
3205	AE008384_2465	LSU ribosomal protein L24E
3209	AE008384_2513	Hypothetical protein
3210	AE008384_161	Hypothetical protein
3211	AE008384_2626	DNA-DIRECTED RNA POLYMERASE SUBUNIT P
3214	AE008384_228	Hypothetical protein
3218	AE008384_340	LSU ribosomal protein L37E
3219	AE008384_2330	Hypothetical protein
3220	AE008384_160	Hypothetical protein
3221	AE008384_539	Hypothetical protein
3222	AE008384_1822	Hypothetical protein
3223	AE008384_1583	Conserved protein
3225	AE008384_2599	Hypothetical protein
3228	AE008384_453	Conserved protein
3231	AE008384_640	Hypothetical protein
3232	AE008384_1483	Ferrous iron transport protein B
3233	AE008384_2345	Transposase
3234	AE008384_3322	Oligopeptide-binding protein OppA
3235	AE008384_2983	Putative NADH oxidase
3236	AE008384_543	Hypothetical protein
3238	AE008384_1674	Hypothetical protein
3240	AE008384_1357	Conserved protein
3243	AE008384_1699	Conserved protein
3244	AE008384_165	Hypothetical protein
3245	AE008384_2686	Transposase
3246	AE008384_1150	Conserved protein
3247	AE008384_927	TRANSCRIPTIONAL REGULATOR, PBSX FAMILY
3249	AE008384_615	Conserved protein
3250	AE008384_2651	Hypothetical protein
3251	AE008384_1659	Hypothetical protein
3252	AE008384_1188	Conserved protein
3253	AE008384_2443	Conserved protein
3254	AE008384_1320	Conserved protein
3255	AE008384_23	Conserved protein
3256	AE008384_3348	Hypothetical protein
3257	AE008384_2934	Conserved protein
3258	AE008384_1247	Conserved protein
3261	AE008384_3316	Hypothetical protein
3262	AE008384_2605	Conserved protein

3263	AE008384_607	Ferredoxin
3264	AE008384_452	Hypothetical protein
3265	AE008384_3341	Conserved protein
3266	AE008384_2260	Hypothetical protein
3267	AE008384_545	Hypothetical protein
3268	AE008384_1951	Hypothetical protein
3269	AE008384_2410	Conserved protein
3270	AE008384_1924	Hypothetical protein
3271	AE008384_2725	Transposase
3272	AE008384_2765	Hypothetical protein
3273	AE008384_1066	Hypothetical protein
3275	AE008384_149	Hypothetical protein
3276	AE008384_1350	Conserved protein
3277	AE008384_1765	Hypothetical protein
3279	AE008384_2776	Hypothetical protein
3281	AE008384_2729	Transposase
3283	AE008384_1400	Hypothetical protein
3285	AE008384_3165	Hypothetical protein
3286	AE008384_2160	Hypothetical protein
3287	AE008384_220	Conserved protein
3288	AE008384_3112	Conserved protein
3289	AE008384_1429	Transposase
3291	AE008384_1481	Iron-dependent repressor
3293	AE008384_34	Hypothetical protein
3295	AE008384_3035	Hypothetical protein
3296	AE008384_2135	LSU ribosomal protein L24P
3297	AE008384_3232	Hypothetical protein
3299	AE008384_3031	Hypothetical protein
3304	AE008384_799	Hypothetical protein
3307	AE008384_3193	Hypothetical membrane associated protein
3309	AE008384_2025	Hypothetical protein
3311	AE008384_2980	Hypothetical protein
3312	AE008384_2724	Hypothetical protein
3313	AE008384_629	Zinc finger protein
3317	AE008384_2099	Hypothetical protein
3320	AE008384_3054	Conserved protein
3321	AE008384_3242	Hypothetical protein
3323	AE008384_18	Conserved protein
3325	AE008384_1724	Hypothetical protein
3328	AE008384_89	Hypothetical protein
3329	AE008384_1646	Conserved protein
3330	AE008384_32	Conserved protein
3331	AE008384_879	Conserved protein
3332	AE008384_538	Hypothetical protein
3333	AE008384_1051	Chromosomal protein
3334	AE008384_1556	Conserved protein
3335	AE008384_2892	ABC transporter, permease protein
3336	AE008384_523	Hypothetical protein
3337	AE008384_1462	Hypothetical protein
3338	AE008384_3030	Conserved protein
3339	AE008384_1289	Conserved protein
3340	AE008384_2461	Conserved protein

3342	AE008384_1432	Hypothetical protein
3350	AE008384_3055	Conserved protein
3354	AE008384_2200	Hypothetical protein
3356	AE008384_2871	Hypothetical protein
3357	AE008384_2444	Conserved protein
3358	AE008384_2191	Conserved protein
3360	AE008384_1173	Conserved protein
3362	AE008384_637	Putative Flavodoxin
3371	AE008384_2215	Polysaccharide ABC transporter, permease protein
3372	AE008384_251	Transposase
3374	AE008384_1427	Conserved protein
3375	AE008384_324	Hypothetical protein
3379	AE008384_1269	Conserved protein
3380	AE008384_1725	Conserved protein
3381	AE008384_1715	Conserved protein
3383	AE008384_2758	Hypothetical protein
3386	AE008384_499	Conserved protein
3390	AE008384_1171	Conserved protein
3393	AE008384_1207	Conserved protein
3394	AE008384_2335	Conserved protein
3395	AE008384_2166	Conserved protein
3396	AE008384_2574	Conserved protein
3397	AE008384_2446	Transcriptional regulator, ArsR family
3400	AE008384_2969	Conserved protein
3402	AE008384_3252	Hypothetical protein
3403	AE008384_3298	glutamate dehydrogenase
3404	AE008384_1205	Conserved protein
3405	AE008384_1771	Hypothetical protein
3408	AE008384_2212	Conserved protein
3410	AE008384_227	Conserved protein
3411	AE008384_349	Hypothetical protein
3413	AE008384_21	Conserved protein
3414	AE008384_2696	Hypothetical protein
3415	AE008384_2940	Conserved protein
3416	AE008384_1208	Conserved protein
3417	AE008384_2735	Conserved protein
3419	AE008384_2329	Conserved protein
3421	AE008384_3237	Transposase
3424	AE008384_3114	Conserved protein
3425	AE008384_2108	Conserved protein
3426	AE008384_268	Conserved protein
3428	AE008384_3039	Hypothetical protein
3430	AE008384_1720	Conserved protein
3431	AE008384_1731	Conserved protein
3433	AE008384_1268	Hypothetical protein
3434	AE008384_3292	Hypothetical protein
3436	AE008384_3083	Conserved protein
3442	AE008384_1230	Hypothetical protein
3447	AE008384_655	Hypothetical protein
3448	AE008384_2165	Transposase
3449	AE008384_1176	Conserved transmembrane protein
3453	AE008384_554	Conserved protein

3454	AE008384_547	Conserved protein
3456	AE008384_470	Hypothetical protein
3458	AE008384_2838	Conserved protein
3459	AE008384_993	Conserved protein
3460	AE008384_2434	Conserved protein
3463	AE008384_3236	Transposase
3466	AE008384_884	Conserved protein
3475	AE008384_2168	Transposase
3477	AE008384_2726	Hypothetical protein
3479	AE008384_1867	Conserved protein
3481	AE008384_2104	Conserved protein
3484	AE008384_1642	Conserved transmembrane protein
3485	AE008384_2890	Hypothetical protein
3486	AE008384_709	Conserved protein
3489	AE008384_3273	Conserved protein
3493	AE008384_2868	Conserved protein
3496	AE008384_758	Conserved protein
3497	AE008384_3049	GLYCOSYL TRANSFERASE
3501	AE008384_1769	Transposase
3502	AE008384_793	Endonuclease III
3504	AE008384_65	Hypothetical protein
3509	AE008384_1460	Conserved protein
3511	AE008384_1972	Hypothetical protein
3514	AE008384_2183	Hypothetical protein
3515	AE008384_3333	Hypothetical protein
3529	AE008384_2391	Hypothetical protein
3530	AE008384_808	LSU ribosomal protein LX
3533	AE008384_3369	Hypothetical protein
3535	AE008384_2334	Conserved protein
3536	AE008384_2863	Conserved protein
3545	AE008384_3034	Conserved protein
3547	AE008384_3337	Conserved protein
3551	AE008384_1733	METALLOPROTEINASE
3556	AE008384_641	Conserved protein
3561	AE008384_1446	Hypothetical protein
3566	AE008384_3354	Hypothetical protein
3576	AE008384_3144	Hypothetical protein
3578	AE008384_3370	Hypothetical protein
3585	AE008384_2414	Hypothetical protein
3594	AE008384_1637	Conserved protein
3612	AE008384_2929	Hypothetical protein
3614	AE008384_2697	Hypothetical protein
3633	AE008384_2580	Hypothetical protein
3634	AE008384_2029	Conserved protein
3639	AE008384_553	Hypothetical protein
3646	AE008384_2337	Conserved protein
3664	AE008384_2922	Hypothetical protein
3667	AE008384_2411	Hypothetical protein
3671	AE008384_3361	Hypothetical protein
3678	AE008384_53	Hypothetical protein
3683	AE008384_791	Hypothetical protein
3699	AE008384_1449	Conserved protein

3727	AE008384_104	Hypothetical protein
3734	AE008384_3	Hypothetical protein
3737	AE008384_83	Hypothetical protein
3737	AE008384_83	Hypothetical protein
3745	AE008384_1532	Hypothetical protein
3748	AE008384_2678	Hypothetical protein
3753	AE008384_1174	Hypothetical protein
3756	AE008384_479	Conserved protein
3762	AE008384_3302	Hypothetical protein
3769	AE008384_555	Hypothetical protein
3771	AE008384_978	Hypothetical protein
3785	AE008384_494	Hypothetical protein
3788	AE008384_2521	Hypothetical protein
3789	AE008384_2543	Hypothetical protein
3792	AE008384_2469	Hypothetical protein
3795	AE008384_2492	Putative Ferredoxin
3800	AE008384_2530	Transposase
3800	AE008384_2530	Transposase
3802	AE008384_2547	Putative ferredoxin
3802	AE008384_2547	Putative ferredoxin
3805	AE008384_2590	Transposase
3806	AE008384_2597	Hypothetical protein
3809	AE008384_2613	LemA PROTEIN
3814	AE008384_2688	Hypothetical protein
3817	AE008384_2694	Transposase
3819	AE008384_2705	TYPE I RESTRICTION-MODIFICATION SYSTEM RESTRICTION SUBUNIT
3829	AE008384_2785	2-isopropylmalate synthase
3830	AE008384_2786	Conserved protein
3830	AE008384_2786	Conserved protein
3837	AE008384_2811	Conserved protein
3843	AE008384_2866	Conserved protein
3847	AE008384_2874	Conserved protein
3847	AE008384_2874	Conserved protein
3851	AE008384_2900	Conserved protein
3862	AE008384_2927	Heteropolysaccharide repeat unit export protein
3868	AE008384_2936	Transposase
3874	AE008384_2957	Transposase
3876	AE008384_2971	Conserved protein
3878	AE008384_2981	TYPE I RESTRICTION-MODIFICATION SYSTEM METHYLATION SUBUNIT
3882	AE008384_3033	Conserved protein
3887	AE008384_3082	Hypothetical protein
3900	AE008384_3156	OXIDOREDUCTASE
3901	AE008384_3158	Hypothetical protein
3902	AE008384_3159	Hypothetical protein
3903	AE008384_3160	Transposase
3905	AE008384_3163	Conserved protein
3908	AE008384_3168	Conserved protein
3911	AE008384_3184	Conserved protein
3915	AE008384_3210	Cation efflux protein
3929	AE008384_3351	Hypothetical protein
3940	AE008384_56	Heterodisulfate reductase, subunit A
3946	AE008384_94	Hypothetical protein

3956	AE008384_190	DNA helicase II
3960	AE008384_229	Hypothetical protein
3964	AE008384_246	Serine-pyruvate aminotransferase
3965	AE008384_250	Transposase
3978	AE008384_343	Hypothetical protein
3979	AE008384_352	Hypothetical protein
3986	AE008384_415	Conserved protein
3987	AE008384_423	Conserved protein
3988	AE008384_424	Histidinol dehydrogenase
3992	AE008384_480	Hypothetical protein
3994	AE008384_509	Transposase
3996	AE008384_521	Conserved protein
4000	AE008384_548	Hypothetical protein
4009	AE008384_587	Conserved protein
4015	AE008384_647	Oligosaccharyl transferase
4019	AE008384_684	CO DEHYDROGENASE/ACETYL-COA SYNTHASE ALPHA SUBUNIT
4019	AE008384_684	CO DEHYDROGENASE/ACETYL-COA SYNTHASE ALPHA SUBUNIT
4020	AE008384_685	CO DEHYDROGENASE/ACETYL-COA SYNTHASE EPSILON SUBUNIT
4020	AE008384_685	CO DEHYDROGENASE/ACETYL-COA SYNTHASE EPSILON SUBUNIT
4021	AE008384_686	CO DEHYDROGENASE/ACETYL-COA SYNTHASE BETA SUBUNIT
4023	AE008384_704	Conserved protein
4024	AE008384_705	Conserved protein
4025	AE008384_706	Thioredoxin 2
4028	AE008384_710	Hypothetical protein
4029	AE008384_711	Transposase
4029	AE008384_711	Transposase
4030	AE008384_713	Conserved protein
4032	AE008384_731	Hypothetical protein
4034	AE008384_741	Universal stress protein
4034	AE008384_741	Universal stress protein
4039	AE008384_775	Conserved protein
4041	AE008384_785	A1AO H+ ATPASE, SUBUNIT I
4042	AE008384_786	A1AO H+ ATPASE, SUBUNIT H
4043	AE008384_787	Transposase
4044	AE008384_792	Hypothetical protein
4047	AE008384_817	Pyrroline-5-carboxylate reductase
4058	AE008384_885	Hypothetical protein
4060	AE008384_926	Transposase
4063	AE008384_942	Hypothetical protein
4064	AE008384_954	Hypothetical protein
4066	AE008384_965	Hypothetical protein
4070	AE008384_1001	Hypothetical protein
4073	AE008384_1021	Hypothetical protein
4074	AE008384_1025	Thiamine biosynthesis protein
4076	AE008384_1050	Conserved protein
4081	AE008384_1065	Hypothetical protein
4082	AE008384_1073	Methanol corrinoid protein
4082	AE008384_1073	Methanol corrinoid protein
4086	AE008384_1099	Hypothetical protein
4087	AE008384_1102	Hypothetical protein
4088	AE008384_1130	Hypothetical protein
4089	AE008384_1146	Conserved protein

4090	AE008384_1147	Dolichol-phosphate mannosyltransferase
4093	AE008384_1160	NUCLEOTIDYLTRANSFERASE
4094	AE008384_1161	Conserved protein
4096	AE008384_1187	Hypothetical protein
4104	AE008384_1246	DNA polymerase II large subunit
4105	AE008384_1252	Conserved protein
4107	AE008384_1258	Conserved protein
4109	AE008384_1260	Transposase
4110	AE008384_1261	Conserved protein, Archaea
4112	AE008384_1262	Xanthine-guanine phosphoribosyltransferase
4115	AE008384_1286	Hypothetical protein
4116	AE008384_1287	Fe-S OXIDOREDUCTASE
4141	AE008384_1567	MOLYBDENUM FORMYLMETHANOFURAN DEHYDROGENASE SUBUNIT
4151	AE008384_1666	ATPase involved in DNA repair
4154	AE008384_1677	Conserved protein
4163	AE008384_1728	Heme biosynthesis protein
4167	AE008384_1739	Heme biosynthesis protein
4168	AE008384_1741	Glutamyl-tRNA reductase
4168	AE008384_1741	Glutamyl-tRNA reductase
4170	AE008384_1751	Replication factor-A protein 1
4182	AE008384_1841	Hypothetical protein
4182	AE008384_1841	Hypothetical protein
4183	AE008384_1848	Hypothetical protein
4184	AE008384_1850	RNase P
4201	AE008384_1992	Hypothetical protein
4214	AE008384_2116	Hypothetical protein
4223	AE008384_2213	Putative glycosyltransferase
4223	AE008384_2213	Putative glycosyltransferase
4224	AE008384_2226	Glucoamylase
4228	AE008384_2284	Conserved protein
4230	AE008384_2303	Transcriptional regulator
4230	AE008384_2303	Transcriptional regulator
4237	AE008384_2382	Hypothetical protein
4238	AE008384_2390	Transposase
4242	AE008384_2420	DNA gyrase, subunit A
4244	AE008384_2427	Methylthiol:coenzyme M methyltransferase
4245	AE008384_2428	Methylthiol:coenzyme M methyltransferase
4247	AE008384_2430	Transposase
4251	AE008384_2438	Hypothetical protein
4251	AE008384_2438	Hypothetical protein
4253	AE008384_2450	Transposase
4254	AE008384_3364	Hypothetical protein
4275	AE008384_355	Transposase
4279	AE008384_397	Transposase (N-terminal domain)
4289	AE008384_556	Hypothetical protein
4295	AE008384_683	Hypothetical protein
4300	AE008384_740	Transposase (N-terminal domain)
4302	AE008384_771	Transposase
4307	AE008384_815	Transposase (N-terminal domain)
4312	AE008384_875	Hypothetical protein
4313	AE008384_881	Transposase
4317	AE008384_982	Transposase (N-terminal domain)

4330	AE008384_1198	Transposase
4330	AE008384_1198	Transposase
4333	AE008384_1259	Transposase (N-terminal domain)
4335	AE008384_1308	Transposase
4351	AE008384_1573	Transposase
4355	AE008384_1623	Transposase (N-terminal domain)
4359	AE008384_1721	Transcriptional regulator, ArsR family
4360	AE008384_1729	Transposase
4362	AE008384_1735	Transposase (N-terminal domain)
4365	AE008384_1786	Transposase
4369	AE008384_1831	Transposase (N-terminal domain)
4373	AE008384_1884	Transposase
4388	AE008384_2192	Transposase
4390	AE008384_2304	Transposase
4396	AE008384_2429	Transposase (N-terminal domain)
4397	AE008384_2437	Transposase
4398	AE008384_2439	Transposase
4401	AE008384_2507	Transposase
4402	AE008384_2509	Transposase
4407	AE008384_2589	Transposase (N-terminal domain)
4411	AE008384_2647	Transposase
4414	AE008384_2683	REVERSE TRANSCRIPTASE
4415	AE008384_2689	Transposase (N-terminal domain)
4417	AE008384_2695	REVERSE TRANSCRIPTASE
4417	AE008384_2695	REVERSE TRANSCRIPTASE
4425	AE008384_2799	Transposase
4428	AE008384_2901	Transposase
4429	AE008384_2906	Transposase
4433	AE008384_2925	Hypothetical protein
4434	AE008384_2926	Hypothetical protein
4438	AE008384_2970	Conserved protein
4441	AE008384_3037	Transposase
4442	AE008384_3047	Transposase
4453	AE008384_3161	Transposase (N-terminal domain)
4455	AE008384_3167	Transposase
4458	AE008384_3229	Transposase
4460	AE008384_3246	Transposase (N-terminal domain)
4461	AE008384_3265	Transposase
4462	AE008384_3343	Transposase
4462	AE008384_3343	Transposase
4463	AE008384_3362	Hypothetical protein
4464	AE008384_3363	Hypothetical protein
4465	AE008384_3365	Hypothetical protein
4466	AE008384_3366	Hypothetical protein
4467	AE008384_3367	Hypothetical protein
4468	AE008384_3368	Hypothetical protein

