

Supplemental Table 1. Predicted protein function for each CDS in the *Thermococcus kodakaraensis* KOD1 genome.

DNA metabolism

Chromosome-associated proteins

TK0560	Archaeal chromatin protein, Alba
TK1413	Archaeal histone A
TK1574	Histone acetyltransferase Elp3 homolog
TK2289	Archaeal histone B

Replication

TK0001	DNA-directed DNA polymerase, family B; two inteins
TK0470	Reverse gyrase; intein
TK0535	DNA polymerase sliding clamp (proliferating cell nuclear antigen)
TK0798	Type II DNA topoisomerase VI, subunit A
TK0799	Type II DNA topoisomerase VI, subunit B
TK0805	Ribonuclease HII
TK1091	DNA topoisomerase I; intein
TK1281	Flap structure-specific endonuclease
TK1410	DnaG-related protein, containing Toprim domain
TK1411	DnaG-related small protein, containing Toprim domain
TK1620	DNA replication licensing factor, MCM2/3/5 family; two inteins
TK1790	Eukaryotic-type DNA primase, large subunit
TK1791	Eukaryotic-type DNA primase, small subunit
TK1901	Cell division control protein 6 homolog
TK1902	DNA polymerase II, small subunit
TK1903	DNA polymerase II, large subunit; intein
TK1959	Replication factor A complex, RPA32 subunit
TK1960	Replication factor A complex, RPA14 subunit
TK1961	Replication factor A complex, RPA41 subunit
TK2140	ATP-dependent DNA ligase
TK2218	Replication factor C, small subunit; intein
TK2219	Replication factor C, large subunit

Recombination and repair

TK0069	Predicted exonuclease, RecB family
TK0170	Endonuclease IV
TK0178	DNA helicase, UvrD/REP family
TK0345	3-Methyladenine DNA glycosylase
TK0447	Hypothetical protein, conserved, RAMP superfamily
TK0450	DEAD/DEAH box helicase
TK0452	Hypothetical protein, conserved, RAMP superfamily
TK0458	Predicted exonuclease, RecB family
TK0460	DEAD/DEAH box helicase, fused to N-terminal HD domain
TK0461	Hypothetical protein, conserved, RAMP superfamily
TK0464	Hypothetical protein, conserved, RAMP superfamily
TK0682	MutS-like DNA mismatch repair ATPase
TK0777	Integrase/recombinase
TK0784	ERCC2/XPD/Rad3-related DNA repair helicase
TK0906	Endonuclease V (deoxyinosine 3'-endonuclease)
TK0928	Predicted DNA/RNA repair helicase
TK0951	XPA-binding protein 1 homolog
TK1021	Helicase-associated endonuclease for fork-structured DNA
TK1141	Endonuclease III (DNA-(apurinic or apyrimidinic site) lyase)
TK1165	Predicted AP endonuclease
TK1175	Archaeal type Holliday junction resolvase
TK1252	ssDNA-specific exonuclease
TK1865	Predicted AP endonuclease
TK1899	RadA/Rad51 recombinase; intein
TK1914	Exonuclease SbcD homolog
TK1971	Methylated-DNA-protein-cysteine S-methyltransferase
TK2111	Nucleoside triphosphate phosphohydrolase, Ham1p homolog
TK2143	Uracil-DNA glycosylase
TK2210	5'-3' Nuclease, encoded next to Rad50 and Mre11 homologs
TK2211	DNA double-strand break repair ATPase Rad50 homolog
TK2212	DNA repair exonuclease Rad32/Mre11 homolog
TK2213	Bipolar DNA helicase
TK2231	RadB recombinase
TK2253	Hypothetical protein, conserved, RAMP superfamily
TK2284	Probable 8-oxo-dGTPase, MutT homolog, NUDIX hydrolase family

DNA degradation and restriction

TK0008	Predicted DNA methylase
TK0155	RecJ-like exonuclease, containing OB-fold nucleic acid-binding domains
TK0317	TatD-related deoxyribonuclease
TK0794	Putative 5-methylcytosine restriction system, catalytic subunit
TK0795	Putative 5-methylcytosine restriction system, GTPase subunit
TK1009	Putative 5-methylcytosine restriction system, GTPase subunit
TK1010	Putative 5-methylcytosine restriction system, catalytic subunit
TK1034	Predicted restriction endonuclease
TK1147	Predicted type II restriction endonuclease
TK1158	Predicted endonuclease-methyltransferase fusion protein
TK1250	Intein/rRNA intron-related DNA endonuclease
TK1460	Predicted endonuclease-methyltransferase fusion protein
TK1863	Predicted N6-adenine-specific DNA methylase
TK1933	Predicted DNA methylase

TK2239 PhoI-related type II restriction endonuclease

Transcription

RNA polymerase

TK0616 DNA-directed RNA polymerase, subunit P
TK0901 DNA-directed RNA polymerase, subunit F
TK1081 DNA-directed RNA polymerase, subunit A"
TK1082 DNA-directed RNA polymerase, subunit A'
TK1083 DNA-directed RNA polymerase, subunit B
TK1084 DNA-directed RNA polymerase, subunit H
TK1167 DNA-directed RNA polymerase, subunit L
TK1498 DNA-directed RNA polymerase, subunit K
TK1499 DNA-directed RNA polymerase subunit N
TK1503 DNA-directed RNA polymerase, subunit D
TK1698 DNA-directed RNA polymerase subunit E"
TK1699 DNA-directed RNA polymerase, subunit E'

Transcription factors

TK0132 TATA box-binding protein (transcription initiation factor TFIID)
TK0533 Archaeal transcription factor S
TK1079 Transcription termination-antitermination factor, NusA homolog
TK1172 TBP-interacting protein
TK1199 TBP-interacting protein Tip49 homolog
TK1280 Transcription initiation factor IIB
TK1419 Transcription antitermination protein
TK1973 Transcription factor, nascent polypeptide-associated complex (NAC) alpha homolog
TK2024 Transcription initiation factor IIE, alpha subunit
TK2287 Transcription initiation factor IIB

Translation

Ribosomal proteins - large subunit

TK0615 LSU ribosomal protein L37AE
TK0902 LSU ribosomal protein L21E
TK0969 LSU ribosomal protein L35AE
TK0975 LSU ribosomal protein L37E
TK1080 LSU ribosomal protein L30E
TK1098 LSU ribosomal protein L44E
TK1309 LSU ribosomal protein L24E
TK1311 LSU ribosomal protein L7AE
TK1319 LSU ribosomal protein L39E
TK1320 LSU ribosomal protein L31E
TK1322 LSU ribosomal protein L20A
TK1415 LSU ribosomal protein L12A
TK1416 LSU ribosomal protein L10E
TK1417 LSU ribosomal protein L1P
TK1418 LSU ribosomal protein L11P
TK1454 LSU ribosomal protein L15E
TK1495 LSU ribosomal protein L40E
TK1501 LSU ribosomal protein L13P
TK1502 LSU ribosomal protein L18E
TK1513 LSU ribosomal protein L14E
TK1515 LSU ribosomal protein L34E
TK1519 LSU ribosomal protein L15P
TK1520 LSU ribosomal protein L30P
TK1522 LSU ribosomal protein L18P
TK1523 LSU ribosomal protein L19E
TK1524 LSU ribosomal protein L32E
TK1525 LSU ribosomal protein L6P
TK1528 LSU ribosomal protein L5P
TK1530 LSU ribosomal protein L24P
TK1531 LSU ribosomal protein L14P
TK1535 LSU ribosomal protein L29P
TK1537 LSU ribosomal protein L22P
TK1539 LSU ribosomal protein L2P
TK1540 LSU ribosomal protein L23P
TK1541 LSU Ribosomal protein L4P
TK1542 LSU ribosomal protein L3P
TK1546 LSU ribosomal protein L10E
TK1915 LSU ribosomal protein L41E

Ribosomal proteins - small subunit

TK0307 SSU ribosomal protein S10P
TK1077 SSU ribosomal protein S7
TK1078 SSU ribosomal protein S12
TK1099 SSU ribosomal protein S27E
TK1191 SSU ribosomal protein S8E
TK1251 SSU ribosomal protein S15P
TK1254 SSU ribosomal protein S3AE
TK1276 SSU ribosomal protein S19E
TK1310 SSU ribosomal protein S28E
TK1496 SSU ribosomal protein S2P
TK1500 SSU ribosomal protein S9P
TK1504 SSU ribosomal protein S11P
TK1505 SSU ribosomal protein S4P
TK1506 SSU ribosomal protein S13P
TK1521 SSU ribosomal protein S5P
TK1526 SSU ribosomal protein S8P

TK1527	SSU ribosomal protein S14P
TK1529	SSU ribosomal protein S4E
TK1532	SSU ribosomal protein S17P
TK1536	SSU ribosomal protein S3P
TK1538	SSU ribosomal protein S19P
TK1695	SSU ribosomal protein S27AE
TK1696	SSU ribosomal protein S24E
TK1951	SSU ribosomal protein S6E
TK2292	SSU ribosomal protein S17E
<i>tRNA aminoacylation</i>	
TK0444	Cysteinyl-tRNA synthetase
TK0492	Aspartyl-tRNA synthetase
TK0550	Prolyl-tRNA synthetase
TK0568	Tyrosyl-tRNA synthetase
TK0759	Asparaginyl-tRNA synthetase
TK0908	Archaeal Glu-tRNA(Gln) amidotransferase, subunit D
TK0911	Archaeal Glu-tRNA(Gln) amidotransferase, subunit E containing GAD domain
TK0921	Phenylalanyl-tRNA synthetase, alpha subunit
TK0925	Phenylalanyl-tRNA synthetase, beta subunit
TK0978	Glycyl-tRNA synthetase
TK1049	Methionyl-tRNA synthetase
TK1140	Seryl-tRNA synthetase
TK1170	Threonyl-tRNA synthetase
TK1235	Arginyl-tRNA synthetase
TK1274	Valyl-tRNA synthetase
TK1408	Glutamyl-tRNA synthetase
TK1461	leucyl-tRNA synthetase
TK1562	Histidyl-tRNA synthetase
TK1567	Alanyl-tRNA synthetase
TK1748	Isoleucyl-tRNA synthetase
TK1874	Tryptophanyl-tRNA synthetase
TK2240	Lysyl-tRNA synthetase
TK2300	Peptidyl-tRNA hydrolase
<i>tRNA/rRNA modification and processing</i>	
TK0031	Ribonuclease P component, Rpp21 homolog
TK0183	snoRNP component, Fibrillarin homolog
TK0184	snoRNP component, Nop56p/58p homolog
TK0233	Ribosomal protein-serine acetyltransferase RimL homolog
TK0302	RNA 2'-phosphotransferase
TK0360	tRNA/rRNA cytosine-C5-methylase, NOL1/NOP2/Sun family
TK0422	tRNA m1G methyltransferase
TK0617	U3 snoRNP component, archaeal imp4 homolog, containing Brix domain
TK0760	Archaeosine tRNA-guanine transglycosylase
TK0773	Predicted ATP-dependent endonuclease, OLD family
TK0872	tRNA/rRNA cytosine-C5-methylase, NOL1/NOP2/Sun family
TK0876	Ribosome biogenesis protein Nep1p homolog, suppressor Mral family
TK0899	Dimethyladenosine transferase (16S rRNA dimethylase)
TK0927	tRNA pseudouridine synthase A
TK0970	N2,N2-Dimethylguanosine tRNA methyltransferase
TK0981	N2,N2-Dimethylguanosine tRNA methyltransferase
TK1114	Ribonuclease Z
TK1116	23S rRNA (uracil-5-)-methyltransferase
TK1328	tRNA (1-methyladenosine) methyltransferase
TK1395	Predicted ATP-dependent endonuclease, OLD family
TK1428	Cleavage and polyadenylation specificity factor subunit homolog
TK1450	Ribonuclease P component, Rpp30 homolog
TK1451	Predicted exosome subunit, DUF54 family
TK1507	Ribosomal RNA small subunit methyltransferase C
TK1509	tRNA pseudouridine synthase B
TK1533	Ribonuclease P component, Rpp29 homolog
TK1615	RNA 3'-terminal phosphate cyclase
TK1633	Exosome subunit Rrp42p homolog, 3'-5' exoribonuclease
TK1634	Exosome subunit Rrp41p homolog, 3'-5' exoribonuclease
TK1635	Exosome subunit Rrp4p homolog, RNA-binding protein
TK1636	Predicted exosome subunit, UPF0023 family
TK1738	2'-5' RNA ligase
TK1741	tRNA nucleotidyltransferase (CCA-adding enzyme)
TK1767	Ribonuclease P component, Rpp14 homolog
TK1785	Probable tRNA/rRNA methyltransferase
TK1935	tRNA/rRNA cytosine-C5-methylase, NOL1/NOP2/Sun family
TK1970	Probable tRNA/rRNA methyltransferase, SpoU family
TK2064	Probable 2-methylthioadenine synthetase
TK2122	tRNA/rRNA cytosine-C5-methylase, NOL1/NOP2/Sun family, containing RNA-binding PUA domain
TK2135	23S rRNA (uracil-5-)-methyltransferase
TK2214	Ribosomal protein-alanine acetyltransferase RimI homolog
TK2215	Archaeal tRNA-intron endonuclease
TK2286	snoRNP component, Gar1 homolog
TK2302	tRNA pseudouridine synthase D
TK2304	tRNA/rRNA cytosine-C5-methylase, NOL1/NOP2/Sun family, fused to N-terminal NusB regulator domain
<i>mRNA processing</i>	
TK0976	snRNP component, Sm-like protein
TK1297	Nonsense-mediated mRNA decay protein NMD3 homolog
<i>Translation factors</i>	

TK0111 Predicted zinc-ribbon RNA-binding protein involved in translation
 TK0112 Translation elongation factor EF-1, beta subunit
 TK0185 Translation initiation factor eIF-2B, delta subunit
 TK0308 Translation elongation factor EF-1, alpha subunit
 TK0309 Translation elongation factor EF-2
 TK0556 Translation initiation factor eIF-2B, beta subunit
 TK0802 Translation initiation factor eIF-1A
 TK0878 Translation initiation factor eIF-5A
 TK0948 Putative translation factor Sua5p homolog
 TK1047 Translation initiation factor eIF-2B, delta subunit
 TK1100 Translation initiation factor eIF-2, alpha subunit
 TK1239 Peptide chain release factor eRF1
 TK1305 Translation initiation factor IF-2; intein
 TK1321 Translation initiation factor eIF-6
 TK1534 Protein translation factor SUI1 homolog
 TK1621 Translation initiation factor eIF-2, beta subunit
 TK1946 Translation initiation factor eIF-2, gamma subunit

Helicases with unknown function

TK0306 DEAD/DEAH box RNA helicase
 TK0521 DEAD/DEAH box RNA helicase, fused to C-terminal uncharacterized domain
 TK0566 DEAD/DEAH box RNA helicase
 TK0764 Large helicase-related protein; intein
 TK1015 Large helicase-related protein
 TK1332 RNA helicase Ski2 homolog; intein

Cellular processes

Cell division

TK0349 ATPase involved in chromosome partitioning, ParA/MinD family
 TK0378 Chromosome partitioning protein ParB homolog
 TK0514 Chromosome condensation protein CrcB homolog
 TK0669 CDC48/VCP homolog, AAA superfamily
 TK0701 ATPase, ParA/MinD family, containing ferredoxin domains
 TK0702 ATPase, ParA/MinD family, containing ferredoxin domains
 TK0915 ATPase involved in chromosome partitioning, ParA/MinD family
 TK0952 ATPase involved in chromosome partitioning, ParA/MinD family
 TK0954 Septum formation inhibitor Maf homolog
 TK0964 Cell division protein pelota homolog
 TK1017 Chromosome segregation ATPase
 TK1157 CDC48/VCP homolog, AAA superfamily
 TK1421 Cell division GTPase
 TK1669 Cell division GTPase
 TK2007 ATPase involved in chromosome partitioning, ParA/MinD family, Mrp homolog
 TK2021 ATPase involved in chromosome partitioning, ParA/MinD family, Mrp homolog
 TK2137 ATPase involved in chromosome partitioning, ParA/MinD family
 TK2271 Cell division GTPase
 TK2272 ATPase involved in chromosome partitioning, ParA/MinD family, Soj homolog

Signal transduction

TK0241 Protein-tyrosine phosphatase
 TK0507 Adenylate cyclase, class 2
 TK0679 Serine/threonine protein kinase, RIO1 family
 TK0801 Serine/threonine protein kinase Rio1p homolog
 TK1113 Predicted signaling protein, TraB family
 TK1179 Adenylate cyclase, class 2
 TK2250 Serine/threonine protein kinase, RIO1 family

Cell motility

TK0038 Archaeal flagellin B1 precursor
 TK0039 Archaeal flagellin B2 precursor
 TK0040 Archaeal flagellin B3 precursor
 TK0041 Archaeal flagellin B4 precursor
 TK0042 Archaeal flagellin B5 precursor
 TK0043 Archaeal flagella-related protein C
 TK0044 Archaeal flagella-related protein D, internal insertion
 TK0045 Archaeal flagella-related protein F
 TK0046 Archaeal flagella-related protein G
 TK0047 Archaeal flagella-related protein H, predicted ATPase
 TK0048 Archaeal flagella-related protein I, predicted secretion ATPase
 TK0049 Archaeal flagella-related membrane protein J, DUF110 family
 TK0156 Methyl-accepting chemotaxis protein
 TK0629 Chemotaxis signal transduction protein
 TK0630 Methyl-accepting chemotaxis protein
 TK0631 Chemotaxis protein methyltransferase
 TK0632 Chemotaxis response regulator
 TK0633 Chemotaxis protein-glutamate methylesterase, containing receiver domain
 TK0634 Chemotaxis histidine kinase, flame shift
 TK0635 Chemotaxis histidine kinase, flame shift
 TK0636 Chemotaxis protein CheC
 TK0637 Chemotaxis protein CheC
 TK0638 Methyl-accepting chemotaxis protein
 TK0639 Chemotaxis protein CheD
 TK1606 Methyl-accepting chemotaxis protein
 TK2147 Methyl-accepting chemotaxis protein

Detoxification

TK0189 Predicted stress-inducible protein, OsmC/Ohr family
 TK0304 NADH oxidase

TK0523	Rubrerythrin
TK0524	Rubredoxin
TK0525	Superoxide reductase
TK0537	Peroxiredoxin, AhpC/TSA family
TK0815	Peroxiredoxin, AhpC/TSA family
TK0828	NAD(P)H:rubredoxin oxidoreductase
TK0842	Arsenical-resistance membrane protein
TK0843	Trx-linked arsenate reductase (arsenical pump modifier)
TK0880	Arsenical pump membrane protein
TK0994	Arsenical pump-driving ATPase
TK1055	Peroxiredoxin, bacterioferritin comigratory protein homolog, AhpC/TSA family
TK1299	NADH oxidase
TK1392	NADH oxidase
TK2017	Predicted stress-inducible protein, OsmC/Ohr family
TK2032	Periplasmic divalent cation tolerance protein

Protein fate

Protein and peptide degradation

TK0002	Predicted zinc-dependent protease, DUF45 family
TK0160	D-Aminopeptidase
TK0347	Predicted membrane-bound serine protease, NfeD homolog
TK0348	Predicted membrane protease subunit, stomatin/prohibitin homolog
TK0423	Prolyl endopeptidase
TK0439	Membrane-associated metalloprotease, CaaX family
TK0494	Bifunctional carboxypeptidase/aminocyclase
TK0499	Zinc-dependent protease, TldD/PmbA family
TK0502	Zinc-dependent protease, TldD/PmbA family
TK0512	Predicted zinc-dependent protease
TK0677	Zinc-dependent protease HtpX homolog, M48 family
TK0698	Zinc-dependent protease, TldD/PmbA family
TK0699	Zinc-dependent protease, TldD/PmbA family
TK0752	Acylamino acid-releasing enzyme (acylaminoacyl-peptidase)
TK0775	Deblocking aminopeptidase
TK0781	Deblocking aminopeptidase
TK0967	Xaa-Pro aminopeptidase
TK1022	D-Aminopeptidase
TK1033	Predicted metalloprotease, containing Jab1/MPN domain
TK1164	Predicted endopeptidase IV, S49 family
TK1177	Deblocking aminopeptidase
TK1247	Membrane-associated metallopeptidase, M50 family
TK1262	Predicted metalloprotease, containing Jab1/MPN domain
TK1264	ATP-dependent protease Lon
TK1284	Intracellular protease I
TK1316	Predicted membrane protease subunit, stomatin/prohibitin homolog
TK1429	Proteasome, beta subunit
TK1455	Xaa-Pro aminopeptidase
TK1467	Predicted membrane-associated metallopeptidase, M50 family
TK1637	Proteasome, alpha subunit
TK1820	Membrane-associated metalloprotease, M50 family, containing PDZ domain
TK1835	Pyrrolidone-carboxylate peptidase
TK1840	Cobalt-activating carboxypeptidase, M32 family
TK1912	Aminopeptidase, family M28, containing PA domain
TK2040	Microsomal dipeptidase homolog
TK2049	Acylamino acid-releasing enzyme (acylaminoacyl-peptidase)
TK2126	O-Sialoglycoprotein endopeptidase
TK2169	Zinc-dependent protease, TldD/PmbA family
TK2170	Zinc-dependent protease, TldD/PmbA family
TK2207	Proteasome, beta subunit 2
TK2258	Zinc-dependent protease HtpX homolog, M48 family

Protein and peptide secretion and trafficking

TK0053	Archaeal signal peptidase, A24 family
TK0653	Signal recognition particle GTPase
TK1330	Signal recognition particle, SRP19 subunit
TK1420	Preprotein translocase, SecE subunit
TK1486	Signal recognition particle, SRP54 subunit
TK1518	Preprotein translocase, SecY subunit
TK1593	Protein-export membrane protein SecF
TK1594	Protein-export membrane protein SecD
TK1703	Signal peptidase I, fused to C-terminal uncharacterized domain
TK1853	Type II/IV secretion system ATPase; intein
TK1952	Preprotein translocase, SEC61 beta subunit
TK2037	Signal peptidase I

Protein folding and stabilization

TK0441	FKBP-type peptidyl-prolyl cis-trans isomerase, fused to C-terminal uncharacterized domain
TK0643	Prefoldin, beta subunit
TK0678	Chaperonin, alpha subunit (thermosome, alpha subunit)
TK1005	Prefoldin, alpha subunit
TK1121	Prefoldin, alpha subunit
TK1122	Prefoldin, beta subunit
TK1155	Small heat shock protein
TK1850	FKBP-type peptidyl-prolyl cis-trans isomerase
TK2303	Chaperonin, beta subunit (thermosome, beta subunit)

Protein modification and repair

TK0051	Protein-L-isoaspartate carboxylmethyltransferase, flame shift
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TK0106	Diphthine synthase, methylase subunit
TK0290	Pyruvate-formate lyase-activating enzyme
TK0671	Deoxyhypusine synthase
TK0722	Probable protein-S isoprenylcysteine O-methyltransferase
TK0819	Peptide methionine sulfoxide reductase
TK0838	Thioredoxin
TK0893	Pyruvate fromate-lyase activating enzyme-related protein, radical SAM superfamily
TK0961	Hydrogenase expression/formation protein HypE
TK1032	Hydrogenase expression/formation protein HypE
TK1085	Protein disulfide oxidoreductase
TK1183	Methionyl aminopeptidase
TK1198	Organic radical activating enzyme, radical SAM superfamily
TK1673	N5-Glutamine methyltransferase, HemK family
TK1928	Diphthine synthase, DPH2 subunit
TK1993	Hydrogenase expression/formation protein HypE
TK1997	Hydrogenase maturation protein HypF
TK2000	Hydrogenase expression/formation protein hypD
TK2001	Hydrogenase expression/formation protein HypC
TK2004	Hydrogenase maturation protease HycI
TK2008	Hydrogenase nickel-incorporation protein HypA
TK2066	Hydrogenase-specific maturation endopeptidase
TK2100	Thioredoxin reductase

Regulatory functions

Transcription regulators

TK0017	Predicted transcription regulator, SpoVT/AbrB family
TK0107	Manganese-dependent transcription regulator
TK0126	Predicted transcription regulator, containing DNA-binding HTH domain
TK0142	Predicted transcription regulator, containing cell wall binding repeat 2 and DNA-binding HTH domains
TK0151	Transcription regulator, PspC family
TK0168	Predicted transcription regulator, Lrp/AsnC family
TK0169	Predicted transcription regulator, MarR family
TK0225	Predicted transcription regulator, ArsR family
TK0448	Predicted transcription regulator, containing DNA-binding HTH domain
TK0457	Transcription regulator, SpoVT/AbrB family
TK0471	Probable transcription regulator, DUF118 helix-turn-helix family
TK0508	Predicted transcription regulator, Lrp/AsnC family
TK0539	Predicted transcription regulator, containing DNA-binding HTH domain
TK0559	Transcription regulator, ArsR family
TK0567	Transcription regulator, Lrp/AsnC family
TK0697	Predicted transcription regulator, containing DNA-binding HTH domain
TK0770	Transcription regulator, PadR-like family
TK0834	Transcription regulator, Lrp/AsnC family
TK0888	Transcription regulator, SpoVT/AbrB family
TK0997	Transcription regulator, SpoVT/AbrB family
TK1041	Transcription regulator, ArsR family
TK1057	Iron(II) uptake regulation protein, frame shift
TK1058	Iron(II) uptake regulation protein, frame shift
TK1076	Transcription regulator, SpoVT/AbrB family
TK1086	Predicted transcription regulator, ArsR family
TK1143	Transcription regulator, PadR-like family
TK1210	Transcription regulator, Lrp/AsnC family
TK1259	Predicted transcription regulator, Lrp/AsnC family
TK1261	Transcription regulator, ArsR family
TK1266	Predicted transcription regulator, containing CBS domains
TK1272	Predicted transcription regulator, containing Crp and DUF120 domains
TK1285	Transcription regulator, Lrp/AsnC family
TK1291	Predicted transcription regulator, SpoVT/AbrB family
TK1331	Predicted transcription regulator, Lrp/AsnC family
TK1339	Predicted transcription regulator, containing DNA-binding HTH domain
TK1439	Probable nickel responsive regulator
TK1487	Predicted transcription regulator, Lrp/AsnC family
TK1491	Transcription regulator, Lrp/AsnC family
TK1494	Transcription regulator, PadR-like family
TK1591	Predicted transcription regulator, encoded next to RecA superfamily ATPase
TK1654	Transcription regulator, PadR-like family
TK1688	Predicted transcription regulator, containing DNA-binding HTH domain
TK1769	Predicted transcription regulator, DUF118 helix-turn-helix family
TK1815	Transcription regulator, CopG/RepA family
TK1826	Predicted transcription regulator, ArsR family
TK1881	Transcription regulator, ArsR family
TK1883	Transcription regulator, ArsR family
TK1913	Transcription regulator, ArsR family
TK1924	Transcription regulator, PadR-like family
TK1955	Predicted transcription regulator, Lrp/AsnC family
TK1962	Predicted transcription regulator, YpuH-like family
TK2052	Predicted transcription regulator, Lrp/AsnC family
TK2107	Transcription regulator, PadR-like family
TK2110	Transcription regulator, Lrp/AsnC family
TK2134	Transcription regulator, Lrp/AsnC family
TK2151	Archaeal transcription regulator
TK2190	Predicted transcription regulator, ArsR family
TK2197	Predicted transcription regulator, fused to C-terminal uncharacterized domain
TK2229	Transcription regulator, SpoVT/AbrB family

TK2245 Transcription regulator, SpoVT/AbrB family, containing PhoU domain
 TK2259 Predicted transcription regulator, penicillinase repressor family
 TK2261 Transcription regulator, SpoVT/AbrB family
 TK2263 Predicted transcription regulator, ExsB family
 TK2273 Predicted transcription regulator, CopG/RepA family
 TK2291 Archaeal heat shock regulator, ArsR family

Others

TK0329 Lysine/arginine/ornithine transport system kinase
 TK0626 Predicted regulator of amino acid metabolism, containing ACT domain
 TK0685 NAD-dependent protein deacetylase Sir2p homolog
 TK0868 Probable bis(5'-adenosyl)-triphosphatase, HIT family
 TK1031 Predicted ATPase, RNase L inhibitor homolog
 TK1227 Predicted regulator of amino acid metabolism, containing ACT domain
 TK1435 Nitrogen regulatory protein P-II
 TK1456 Probable phosphate transport system regulator, fused to TrkA-C domain
 TK1457 Probable phosphate transport system regulator, fused to TrkA-C domain
 TK1572 NGG1p interacting factor 3 homolog
 TK1639 Probable bis(5'-adenosyl)-triphosphatase, HIT family
 TK1869 Probable phosphate transport system regulator
 TK1870 Phosphate transport system regulator
 TK1967 Distant homolog of phosphate transport system regulator PhoU
 TK2060 Distant homolog of phosphate transport system regulator PhoU
 TK2149 Putative effector of murein hydrolase
 TK2150 Putative effector of murein hydrolase
 TK2252 Proteasome-activating nucleotidase (proteasome regulatory subunit)

Cell envelope

Lipid metabolism

TK0059 CDP-alcohol phosphatidyltransferase
 TK0180 Acetyl-CoA acetyltransferase
 TK0181 3-Hydroxy-3-methylglutaryl-CoA synthase
 TK0789 Glycerol-1-phosphate dehydrogenase
 TK0914 3-Hydroxy-3-methylglutaryl-CoA reductase
 TK1026 Geranylgeranylgeranyl diphosphate synthase
 TK1088 Geranylgeranyl hydrogenase
 TK1173 Undecaprenyl pyrophosphate synthase
 TK1468 Bifunctional short-chain isoprenyl diphosphate synthase
 TK1470 Isopentenyl-diphosphate delta-isomerase
 TK1474 Mevalonate kinase
 TK1836 Geranylgeranyl hydrogenase

Surface polysaccharides and protein glycosilation

TK0219 Sugar-phosphate nucleotidyltransferase
 TK0364 Dolichol-phosphate mannosyltransferase
 TK0762 Glycosyltransferase, family 2
 TK0806 Putative membrane-bound dolichyl-phosphate-mannose-protein mannosyltransferase
 TK0809 Glucosamine--fructose-6-phosphate aminotransferase (isomerizing)
 TK0810 Oligosaccharyl transferase, STT3 subunit
 TK0891 Glycosyltransferase, family 4
 TK0892 Polysaccharide deacetylase
 TK0949 Glycosyltransferase, family 4
 TK0955 Sugar-phosphate nucleotidyltransferase
 TK1004 UDP-glucose 4-epimerase
 TK1108 Phosphohexomutase
 TK1109 Bifunctional mannose-6-phosphate isomerase/mannose-1-phosphate guanylyl transferase
 TK1188 Sugar-phosphate nucleotidyltransferase
 TK1230 UDP-N-acetylglucosamine 2-epimerase
 TK1231 UDP-N-acetyl-D-mannosaminuronate dehydrogenase
 TK1293 Putative membrane-bound dolichyl-phosphate-mannose-protein mannosyltransferase
 TK1323 Glycosyltransferase, family 4
 TK1402 Polysaccharide deacetylase
 TK1554 Glycosyltransferase, family 2
 TK1708 UDP-glucose 4-epimerase
 TK1711 Sugar-phosphate nucleotidyltransferase
 TK1712 Capsular polysaccharide biosynthesis protein
 TK1713 Glycosyltransferase, family 4
 TK1714 Glycosyltransferase, family 2
 TK1715 CDP-glycerol:poly(glycerophosphate) glycerophosphotransferase
 TK1716 Cytidyltransferase
 TK1717 Glycosyltransferase, family 2
 TK1718 Oligosaccharyl transferase, STT3 subunit
 TK1719 Capsular polysaccharide biosynthesis protein
 TK1720 Dolichol-phosphate mannosyltransferase
 TK1721 Glycosyltransferase, family 4
 TK1722 Probable beta-1,3-galactosyltransferase
 TK1723 Glycosyltransferase, family 4
 TK1731 Glycosyltransferase, family 4
 TK1732 Dolichol-phosphate mannosyltransferase, fused to C-terminal uncharacterized domain
 TK1733 Glycosyltransferase, family 1
 TK1810 Cytidyltransferase
 TK1819 Capsular polysaccharide biosynthesis protein
 TK1828 Galactose-1-phosphate uridylyltransferase
 TK1831 Galactokinase
 TK1909 Dolichol-phosphate mannosyltransferase, fused to membrane-bound GtrA-like domain
 TK2185 Phosphohexomutase

TK2254	UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase
TK2255	Bifunctional phosphatase/dolichol-phosphate glucosyltransferase
TK2274	Glycerol-3-phosphate cytidyltransferase
TK2279	Bifunctional sugar nucleotidyltransferase/CDP-alcohol phosphatidyltransferase synthase

Surface structure

TK0164	S-layer-like array protein
TK0895	S-layer protein precursor
TK1589	S-layer-like array protein

Central intermediary metabolism

Extracellular protein degradation

TK1295	Predicted thiol protease
TK1675	Subtilisin-like serine protease precursor
TK1689	Subtilisin-like serine protease precursor
TK1782	Serine protease inhibitor Serpin homolog
TK2168	Archaeal serine protease

Polysaccharide degradation

TK0522	Carbohydrate esterase, family 1
TK0977	Pullulanase type II, GH13 family
TK1406	Maltodextrin phosphorylase
TK1434	alpha-Glucosidase
TK1436	Probable alpha-amylase, GH57 family
TK1754	exo-beta-D-glucosaminidase
TK1755	Archaeal glucosamine-6-phosphate deaminase
TK1761	beta-Glycosidase, GH1 family
TK1764	N-Acetylchitobiose deacetylase
TK1765	Chitinase, containing dual catalytic domains
TK1770	Cyclomaltodextrinase
TK1774	Amylopullulanase, GH57 family
TK1809	4-alpha-Glucanotransferase, GH57 family
TK1827	Membrane-bound beta-glycosidase, GH1 family
TK1830	Probable alpha-amylase, GH57 family
TK1884	alpha-Amylase precursor, GH13 family
TK2172	Cyclodextrin glucanotransferase, GH13 family

Polysaccharide (cytoplasmic)

TK1768	Glycogen synthase
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Polyamine

TK0134	Probable acetylpolyamine aminohydrolase, histon deacetylase family
TK0147	Spermidine synthase
TK0149	Pyruvoyl-dependent arginine decarboxylase
TK0882	Agmatinase
TK1592	S-Adenosylmethionine decarboxylase proenzyme

Compatible solute

TK0787	Archaeal inositol-1-monophosphatase/fructose-1,6-bisphosphatase
TK1038	2-Phosphoglycerate kinase
TK1039	Cyclic 2,3-diphosphoglycerate synthetase
TK2278	myo-Inositol-1-phosphate synthase

Others

TK0026	Probable phosphoglycolate phosphatase, HAD superfamily
TK0999	Lysophospholipase, alpha/beta hydrolase superfamily
TK1315	3'-Phosphoadenosine 5'-phosphosulfate reductase, fused to RNA-binding PUA and 4Fe-4S binding domains
TK1393	Anaerobic glycerol 3-phosphate dehydrogenase
TK1396	Glycerol kinase
TK1397	Glycerophosphoryl diester phosphodiesterase
TK1398	Glycerophosphoryl diester phosphodiesterase
TK1872	2-Hydroxyhepta-2,4-diene-1,7-dioate isomerase, FAA hydrolase family
TK2132	Fucose-1-phosphate aldolase
TK2167	3'-Phosphoadenosine 5'-phosphosulfate reductase, fused to N-terminal uncharacterized archaeal domain

Amino acid metabolism

Aromatic amino acid family

TK0252	Indole-3-glycerol phosphate synthase
TK0253	Anthranilate phosphoribosyltransferase
TK0254	Anthranilate synthase, component I
TK0255	Anthranilate synthase, component II
TK0256	N-(5'-Phosphoribosyl)anthranilate isomerase
TK0257	Tryptophan synthase, beta subunit
TK0258	Tryptophan synthase, alpha subunit
TK0259	Prephenate dehydrogenase
TK0260	Probable aromatic aminotransferase
TK0261	Predicted chorismate mutase, N-truncation
TK0262	Chorismate synthase
TK0263	5-Enolpyruvylshikimate-3-phosphate synthase
TK0264	Archaeal shikimate kinase
TK0265	Shikimate 5-dehydrogenase
TK0266	3-Dehydroquinate dehydratase
TK0267	3-Dehydroquinate synthetase
TK0268	2-Dehydro-3-deoxyphosphoheptonate aldolase
TK1442	Tryptophan synthase beta subunit-related protein

Aspartate family

TK0028	S-Adenosyl-L-homocysteine hydrolase
TK0504	Aspartate racemase
TK0545	S-Adenosylmethionine synthetase
TK0916	Threonine 3-dehydrogenase
TK0950	Asparagine synthase (glutamine-hydrolyzing)

TK1443 Aspartate-semialdehyde dehydrogenase
 TK1444 Homoserine kinase
 TK1445 Aspartokinase
 TK1446 Methionine synthase II (cobalamin-independent)
 TK1447 Methionine synthase II (cobalamin-independent)
 TK1448 5,10-Methylenetetrahydrofolate reductase
 TK1449 Cystathionine gamma-synthase
 TK1471 Aspartate racemase
 TK1478 Threonine synthase
 TK1627 Homoserine dehydrogenase
 TK1656 L-Asparaginase
 TK2205 Threonine synthase
 TK2246 L-Asparaginase

Glutamate family

TK0119 Proline dehydrogenase, alpha subunit (dye-linked NADH dehydrogenase)
 TK0120 Proline dehydrogenase, gamma subunit (4Fe-4S cluster-binding component)
 TK0121 Proline dehydrogenase, delta subunit (2Fe-2S cluster-binding component)
 TK0122 Proline dehydrogenase, beta subunit (dye-linked proline dehydrogenase component)
 TK0240 Arginase
 TK0272 Pyrroline-5-carboxylate reductase, flame shift
 TK0273 Pyrroline-5-carboxylate reductase, flame shift
 TK0474 Arginase
 TK0871 Ornithine carbamoyltransferase
 TK1431 Glutamate dehydrogenase
 TK1796 Glutamine synthetase
 TK1814 Glutamate decarboxylase

Histidine family

TK0242 ATP phosphoribosyltransferase, predicted regulatory subunit
 TK0243 ATP phosphoribosyltransferase
 TK0244 Histidinol dehydrogenase
 TK0245 Imidazoleglycerol-phosphate dehydratase
 TK0246 Imidazoleglycerol-phosphate synthase, subunit H
 TK0247 1-(5-Phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino] imidazole-4-carboxamide isomerase
 TK0248 Imidazoleglycerol-phosphate synthase, cyclase subunit F
 TK0249 Bifunctional phosphoribosyl-AMP cyclohydrolase/phosphoribosyl-ATP pyrophosphohydrolase
 TK0250 Histidinol-phosphate aminotransferase

Lysine family

TK0274 N2-Acetyl-lysine deacetylase
 TK0275 N2-Acetyl-lysine aminotransferase
 TK0276 N2-Acetyl-aminoadipate kinase
 TK0277 N2-Acetyl-aminoadipyl-delta-phosphate reductase
 TK0278 RimK-related lysine biosynthesis protein
 TK0279 Probable lysine biosynthesis protein
 TK0280 Homoisocitrate dehydrogenase
 TK0281 Homoaconitase, small subunit
 TK0282 Homoaconitase, large subunit
 TK0283 Homocitrate synthase
 TK0875 Saccharopine reductase
 TK1237 Probable dihydrodipicolinate synthase

Serine family

TK0052 Phosphoserine phosphatase
 TK0116 Sarcosine oxidase, alpha subunit
 TK0117 Sarcosine oxidase, beta subunit
 TK0150 Glycine cleavage system protein H
 TK0528 Serine hydroxymethyltransferase
 TK1379 Glycine cleavage system protein P (pyridoxal-binding), subunit 2
 TK1380 Glycine cleavage system protein P (pyridoxal-binding), subunit 1
 TK1548 Probable serine--glyoxylate aminotransferase, class V
 TK1687 Cysteine synthase
 TK1966 D-3-Phosphoglycerate dehydrogenase
 TK2035 Glycine cleavage system protein T (aminomethyltransferase)
 TK2217 2-Amino-3-oxobutyrate coenzyme A ligase (glycine C-acetyltransferase)

Nucleotide metabolism

Purines

TK0190 GMP synthase, glutamine amidotransferase component
 TK0193 GMP synthase, PP-loop-ATPase component
 TK0194 Inosine-5'-monophosphate dehydrogenase
 TK0197 Phosphoribosylformylglycinamide synthase II
 TK0201 Phosphoribosylformylglycinamide synthase I
 TK0202 Phosphoribosylformylglycinamide synthase, PurS component
 TK0204 Phosphoribosylamine-glycine ligase
 TK0207 Formate-dependent phosphoribosylglycinamide formyltransferase
 TK0208 Phosphoribosylformylglycinamide cyclo-ligase
 TK0210 Phosphoribosylaminoimidazole-succinocarboxamide synthase
 TK0211 Amidophosphoribosyltransferase
 TK0430 Inosine 5'-monophosphate cyclohydrolase
 TK0432 Phosphoribosylaminoimidazolesuccinocarboxamide synthase
 TK0561 Adenylosuccinate lyase
 TK0835 Phosphoribosylaminoimidazole carboxylase, ATPase subunit
 TK0836 Phosphoribosylaminoimidazole carboxylase, catalytic subunit
 TK1002 Adenylosuccinate synthase

Pyrimidines

TK0870 Alternative thymidylate synthase

TK1193 CTP synthase (UTP--ammonia ligase)
 TK1805 Dihydroorotase
 TK1806 Probable dihydroorotate dehydrogenase, electron transfer subunit
 TK2138 Orotate phosphoribosyltransferase
 TK2195 Aspartate carbamoyltransferase, regulatory subunit
 TK2196 Aspartate carbamoyltransferase, catalytic subunit
 TK2260 Dihydroorotate dehydrogenase
 TK2276 Orotidine-5'-phosphate decarboxylase

2-Deoxyribonucleotide metabolism

TK1736 Ribonucleoside-diphosphate reductase; two inteins
 TK2298 Anaerobic ribonucleoside-triphosphate reductase
 TK2299 Anaerobic ribonucleoside-triphosphate reductase activating enzyme

Nucleotide and nucleoside interconversions

TK0305 Uridylate kinase
 TK0338 Predicted nucleotide kinase, related to CMP and AMP kinases
 TK0700 Nucleotide pyrophosphohydrolase
 TK0812 Adenylate kinase
 TK1260 Nucleotide pyrophosphohydrolase
 TK1307 Nucleoside diphosphate kinase
 TK1403 Thymidylate kinase
 TK1414 Deoxycytidine triphosphate deaminase
 TK1514 Cytidylate kinase
 TK1517 Archaeal adenylate kinase
 TK1640 Nucleotide pyrophosphohydrolase
 TK1891 Probable guanine deaminase
 TK2257 Deoxycytidylate deaminase

Purine and pyrimidine salvage

TK0352 Thymidine phosphorylase
 TK0664 Hypoxanthine/guanine phosphoribosyltransferase
 TK1287 Uracil phosphoribosyltransferase
 TK1318 Thymidine kinase
 TK1479 Uridine phosphorylase
 TK1482 Purine-nucleoside phosphorylase
 TK1489 Adenine phosphoribosyltransferase, fused to N-terminal DNA-binding domain
 TK1737 Xanthine/guanine phosphoribosyltransferase
 TK1895 Purine-nucleoside phosphorylase

Cofactor and prosthetic group metabolism

Molybdopterin

TK0354 Molybdenum cofactor biosynthesis protein C
 TK0541 Molybdenum cofactor biosynthesis protein MoeA
 TK0544 Molybdenum cofactor biosynthesis protein B
 TK0749 Probable molybdopterin-guanine dinucleotide biosynthesis protein A
 TK0934 Molybdopterin-guanine dinucleotide biosynthesis protein B
 TK1064 Predicted metallocofactor modifying protein, radical SAM superfamily
 TK1065 Molybdopterin converting factor, subunit 1
 TK1228 Probable molybdenum cofactor biosynthesis protein A
 TK1282 Molybdenum cofactor biosynthesis protein MoeA
 TK2002 Molybdopterin-guanine dinucleotide biosynthesis protein A
 TK2115 Molybdopterin converting factor, subunit 2
 TK2117 Molybdenum cofactor biosynthesis protein MoeB
 TK2118 Molybdopterin converting factor, subunit 1
 TK2225 Molybdenum cofactor biosynthesis protein A

Pantothenate and CoA

TK0153 ATP:dephospho-CoA triphosphoribosyl transferase
 TK0363 3-Methyl-2-oxobutanoate hydroxymethyltransferase
 TK0517 Phosphopantothenoylcysteine synthetase/decarboxylase
 TK1334 Dephospho-CoA kinase
 TK1968 2-Dehydropantoate 2-reductase
 TK2128 Phosphopantetheine adenyllyltransferase
 TK2192 Dephospho-CoA kinase

Pyridine nucleotide

TK0067 Nicotinamide mononucleotide adenyllyltransferase
 TK0218 Nicotinate-nucleotide pyrophosphorylase
 TK0296 Quinolate synthetase A
 TK0297 L-Aspartate oxidase (quinolate synthetase B)
 TK1301 Probable ATP-NAD kinase
 TK1650 Probable nicotinamidase
 TK1676 Nicotinate-nucleotide pyrophosphorylase
 TK1798 NH₃-dependent NAD⁺ synthetase
 TK2124 ATP-NAD kinase

Pyridoxine

TK0216 Pyridoxine biosynthesis amidotransferase, SNO family
 TK0217 Pyridoxine/pyridoxal 5-phosphate biosynthesis protein, SOR/SNZ family

Riboflavin

TK0424 Riboflavin biosynthesis protein RibD
 (Diaminohydroxyphosphoribosylaminopyrimidine deaminase and 5-amino-6-(5-phosphoribosylamino)uracil reductase)
 TK0425 Riboflavin synthase, alpha subunit
 TK0428 Riboflavin biosynthesis protein RibA (GTP cyclohydrolase II and 3,4-dihydroxy-2-butanone 4-phosphate synthase)
 TK0429 Riboflavin synthase, beta subunit

Thiamine

TK0366 Thil-related protein
 TK0368 Thiamine biosynthesis protein Thil
 TK0433 Thiamine biosynthesis protein ThiC

TK0434 Thiazole biosynthetic enzyme Thi4
 TK0435 Phosphomethylpyrimidine kinase, fused to C-terminal uncharacterized domain
 TK0890 Thiamine monophosphate kinase
 TK1093 Sulfur transfer protein involved in thiamine biosynthesis

Cobalamine salvage

TK0846 Adenosylcobinamide amidohydrolase
 TK0853 NaMN:DMB phosphoribosyltransferase
 TK0854 Cobyric acid synthase
 TK0856 GTP:adenosylcobinamide-phosphate guanylyltransferase
 TK0857 Cobalamin-5-phosphate synthase
 TK0863 Cobinamide synthase
 TK0864 Threonine-O-3-phosphate decarboxylase
 TK1045 Cobalamin adenosyltransferase
 TK2130 ATP:corrinoid adenosyltransferase

Others

TK0509 3-Octaprenyl-4-hydroxybenzoate decarboxylase UbiX
 TK0730 ABC-type transport system involved in Fe-S cluster assembly, permease component
 TK0731 ABC-type transport system involved in Fe-S cluster assembly, ATPase component
 TK0747 Bifunctional biotin-protein ligase/biotin operon repressor
 TK0748 Biotin biosynthesis protein BioY
 TK0929 3-Octaprenyl-4-hydroxybenzoate decarboxylase UbiD
 TK0987 Biotin-protein ligase
 TK1119 6-Pyruvoyl-tetrahydropterin synthase
 TK1161 Dihydropteroate synthase
 TK1234 Lipoate-protein ligase A, C-terminal section
 TK1324 4-Hydroxybenzoate octaprenyltransferase
 TK1908 Lipoate-protein ligase A, N-terminal section
 TK1957 4-Hydroxybenzoate octaprenyltransferase
 TK1990 Cysteine desulfurase

Energy metabolism

Amino acid degradation

TK0135 Indolepyruvate: ferredoxin oxidoreductase, beta subunit
 TK0136 Indolepyruvate: ferredoxin oxidoreductase, alpha subunit
 TK0139 Acetyl-CoA synthetase II (NDP forming), alpha subunit
 TK0186 Multiple substrate aminotransferase
 TK0465 Acetyl-CoA synthetase I (NDP forming), beta subunit
 TK0548 Aromatic aminotransferase
 TK0665 Acetyl-CoA synthetase I (NDP forming), alpha subunit
 TK0816 2-Oxoacid:ferredoxin oxidoreductase, beta subunit
 TK0817 2-Oxoacid:ferredoxin oxidoreductase, alpha subunit
 TK0943 Acetyl-CoA synthetase II (NDP forming), beta subunit
 TK0944 Acyl-CoA synthetase (NDP forming), large subunit
 TK1066 Tungsten-containing aldehyde:ferredoxin oxidoreductase
 TK1094 Alanine aminotransferase
 TK1123 2-Oxoacid:ferredoxin oxidoreductases, gamma subunit
 TK1124 2-Oxoacid:ferredoxin oxidoreductases, beta subunit
 TK1125 2-Oxoacid:ferredoxin oxidoreductases, alpha subunit
 TK1126 2-Oxoacid:ferredoxin oxidoreductases, gamma subunit
 TK1129 2-Oxoacid:ferredoxin oxidoreductases, beta subunit
 TK1130 2-Oxoacid:ferredoxin oxidoreductases, alpha subunit
 TK1131 2-Oxoacid:ferredoxin oxidoreductase, delta subunit
 TK1211 Aminotransferase, class III
 TK1643 Indolepyruvate: ferredoxin oxidoreductase, alpha subunit
 TK1880 Archaeal succinyl-CoA synthetase (NDP forming), large subunit
 TK1978 Pyruvate/2-oxoisovalerate: ferredoxin oxidoreductases, common gamma subunit
 TK1979 2-Oxoisovalerate:ferredoxin oxidoreductase, delta subunit
 TK1980 2-Oxoisovalerate:ferredoxin oxidoreductase, alpha subunit
 TK1981 2-Oxoisovalerate:ferredoxin oxidoreductase, beta subunit
 TK1982 Pyruvate:ferredoxin oxidoreductase, delta subunit
 TK1983 Pyruvate:ferredoxin oxidoreductase, alpha subunit
 TK1984 Pyruvate:ferredoxin oxidoreductase, beta subunit
 TK2101 Aminotransferase, class III
 TK2127 Acyl-CoA synthetase (NDP forming), large subunit
 TK2244 Indolepyruvate: ferredoxin oxidoreductase, beta subunit
 TK2268 Aspartate aminotransferase

Glycolysis/gluconeogenesis

TK0376 ADP-dependent phosphofructokinase
 TK0511 Pyruvate kinase
 TK0705 NADP-dependent glyceraldehyde-3-phosphate dehydrogenase (non-phosphorylating)
 TK0765 Glyceraldehyde-3-phosphate dehydrogenase (phosphorylating)
 TK0866 2,3-Bisphosphoglycerate-independent phosphoglycerate mutase
 TK0989 DhnA-type fructose-1,6-bisphosphate aldolase
 TK1110 ADP-dependent glucokinase
 TK1111 Archaeal glucose-6-phosphate isomerase
 TK1146 3-Phosphoglycerate kinase
 TK1292 Phosphoenolpyruvate synthetase (pyruvate, water dikinase)
 TK2106 Enolase
 TK2129 Triosephosphate isomerase
 TK2163 Tungsten-containing glyceraldehyde-3-phosphate:ferredoxin oxidoreductase
 TK2164 Thermophile-specific fructose-1,6-bisphosphatase

Pentose metabolism

TK0269 Transketolase, C-terminal section
 TK0270 Transketolase, N-terminal section

TK0475	D-Arabinose 3-hexulose-6-phosphate formaldehyde lyase, fused to phosphohexuloisomerase
TK1426	Ribose 5-phosphate isomerase
TK1777	Phosphopentomutase
TK2104	Deoxyribose-phosphate aldolase
TK2235	Phosphoribosylpyrophosphate synthetase
TK2290	Ribulose 1,5-bisphosphate carboxylase/oxygenase, TypeIII
<i>Pyruvate/oxaloacetate metabolism</i>	
TK0289	Pyruvate-formate lyase
TK0375	Probable maleate cis-trans isomerase
TK0990	Oxaloacetate decarboxylase, alpha subunit
TK1405	Phosphoenolpyruvate carboxykinase (GTP)
TK1963	NADP-dependent malic enzyme
TK1964	Probable fumarate hydratase, beta subunit
TK1965	Probable fumarate hydratase, alpha subunit
<i>Propanoate metabolism</i>	
TK0328	Methylmalonyl-CoA mutase, C-terminus of large subunit (cobalamin-binding)
TK0330	Methylmalonyl-CoA epimerase
TK1149	Methylmalonyl-CoA mutase, N-terminus of large subunit
TK1622	Methylmalonyl-CoA decarboxylase, alpha subunit
TK1623	Methylmalonyl-CoA decarboxylase, delta subunit
TK1624	Methylmalonyl-CoA decarboxylase, gamma subunit
TK1625	Methylmalonyl-CoA decarboxylase, beta subunit
<i>ATP-proton motive force interconversion</i>	
TK1596	Archaeal/vacuolar-type H ⁺ -ATPase, subunit H
TK1597	Archaeal/vacuolar-type H ⁺ -ATPase, subunit I
TK1598	Archaeal/vacuolar-type H ⁺ -ATPase, subunit K
TK1599	Archaeal/vacuolar-type H ⁺ -ATPase, subunit E
TK1600	Archaeal/vacuolar-type H ⁺ -ATPase, subunit C
TK1601	Archaeal/vacuolar-type H ⁺ -ATPase, subunit F
TK1602	Archaeal/vacuolar-type H ⁺ -ATPase, subunit A
TK1603	Archaeal/vacuolar-type H ⁺ -ATPase, subunit B
TK1604	Archaeal/vacuolar-type H ⁺ -ATPase, subunit D
<i>Electron transport</i>	
TK0072	Tungsten-containing oxidoreductase
TK0214	Probable formate dehydrogenase, alpha subunit
TK0284	NAD(P)H-flavin oxidoreductase
TK0316	Rubrerithrin-related protein, fused to C-terminal DUF835 domain
TK0370	NAD(P)H-flavin oxidoreductase
TK0551	D-Isomer specific 2-hydroxyacid dehydrogenase
TK0650	Rubrerithrin-related protein
TK0651	NAD(P)-dependent dyhydrogenase, Gfo/Idh/MocA family
TK0672	Glutamate synthase beta chain-related oxidoreductase
TK0673	Short-chain alcohol dehydrogenase
TK0683	Glyoxylate reductase
TK0690	Molybdopterin oxidoreductase, molybdopterin-binding subunit
TK0723	Iron-molybdenum cofactor-binding protein
TK0724	Iron-molybdenum cofactor-binding protein
TK0732	Iron-molybdenum cofactor-binding protein
TK0736	Short-chain alcohol dehydrogenase
TK0740	4Fe-4S cluster-binding protein
TK0814	Type A flavoprotein
TK0839	NAD(P)H-flavin oxidoreductase
TK0840	NAD(P)H-flavin oxidoreductase
TK0844	Tungsten-containing oxidoreductase
TK0845	Oxidoreductase, aldo/keto reductase family
TK1008	Fe-containing alcohol dehydrogenase
TK1056	Rubrerithrin-related protein
TK1062	Rubrerithrin-related protein
TK1087	Ferredoxin 2
TK1208	Glutaredoxin-related protein
TK1209	Transmembrane electron transport protein
TK1214	Membrane bound hydrogenase, 4Fe-4S cluster-binding subunit
TK1215	Membrane bound hydrogenase, NiFe-hydrogenase large subunit 2
TK1216	Membrane bound hydrogenase, NiFe-hydrogenase large subunit 1
TK1217	Membrane bound hydrogenase, NiFe-hydrogenase small subunit
TK1218	Membrane bound hydrogenase, MbxM subunit
TK1219	Membrane bound hydrogenase, MbxH' subunit
TK1220	Membrane bound hydrogenase, MbxH subunit
TK1221	Membrane bound hydrogenase, MbxG subunit
TK1222	Membrane bound hydrogenase, MbxF subunit
TK1223	Membrane bound hydrogenase, MbxD subunit
TK1224	Membrane bound hydrogenase, MbxC subunit
TK1225	Membrane bound hydrogenase, MbxB subunit
TK1226	Membrane bound hydrogenase, MbxA subunit
TK1325	Ferredoxin:NADP oxidoreductase, alpha subunit
TK1326	Ferredoxin:NADP oxidoreductase, beta subunit
TK1391	Molybdopterin oxidoreductase, 4Fe-4S cluster-binding subunit
TK1472	CinA-related molybdopterin-binding protein
TK1481	NADH:polysulfide oxidoreductase
TK1512	Short-chain alcohol dehydrogenase
TK1557	Predicted dehydrogenase
TK1569	Iron-containing alcohol dehydrogenase
TK1612	Glutamate synthase beta chain-related oxidoreductase, containing 2Fe-2S and 4Fe-4S clusters

TK1613	NADH:ubiquinone oxidoreductase, NADH-binding subunit F
TK1614	NADH:ubiquinone oxidoreductase, subunit E
TK1674	Flavin reductase-related oxidoreductase
TK1677	Short-chain alcohol dehydrogenase
TK1684	Ferredoxin:NADP oxidoreductase, alpha subunit
TK1685	Ferredoxin:NADP oxidoreductase, beta subunit
TK1694	Ferredoxin 1
TK2010	Iron-molybdenum cofactor-binding protein, flame shift
TK2011	Iron-molybdenum cofactor-binding protein, flame shift
TK2012	Ferredoxin 3
TK2016	Iron-molybdenum cofactor-binding protein
TK2069	Cytosolic NiFe-hydrogenase, alpha subunit
TK2070	Cytosolic NiFe-hydrogenase, delta subunit
TK2071	Cytosolic NiFe-hydrogenase, gamma subunit
TK2072	Cytosolic NiFe-hydrogenase, beta subunit
TK2073	4Fe-4S cluster-binding protein
TK2074	Glutamate synthase beta chain-related oxidoreductase
TK2075	4Fe-4S cluster-binding protein
TK2076	Probable formate dehydrogenase, alpha subunit
TK2077	4Fe-4S cluster-binding protein
TK2078	4Fe-4S cluster-binding protein
TK2080	Membrane bound hydrogenase, MbhA subunit
TK2081	Membrane bound hydrogenase, MbhB subunit
TK2082	Membrane bound hydrogenase, MbhC subunit
TK2083	Membrane bound hydrogenase, MbhD subunit
TK2084	Membrane bound hydrogenase, MbhE subunit
TK2085	Membrane bound hydrogenase, MbhF subunit
TK2086	Membrane bound hydrogenase, MbhG subunit
TK2087	Membrane bound hydrogenase, MbhH subunit
TK2088	Membrane bound hydrogenase, MbhI subunit
TK2089	Membrane bound hydrogenase, NiFe-hydrogenase small subunit
TK2090	Membrane bound hydrogenase, NiFe-hydrogenase large subunit 1
TK2091	Membrane bound hydrogenase, NiFe-hydrogenase large subunit 2
TK2092	Membrane bound hydrogenase, MbhM subunit
TK2093	Membrane bound hydrogenase, 4Fe-4S cluster-binding subunit
TK2094	Rubryerythrin-related protein
TK2095	Rubryerythrin-related protein
TK2096	Rubryerythrin-related protein
TK2159	Predicted oxidoreductase

Others

TK1700	Inorganic pyrophosphatase
TK2031	Acylphosphatase

Nitrogen metabolism

TK0332	Allophanate hydrolase, subunit 2
TK0333	Allophanate hydrolase, subunit 1
TK2158	Carbamate kinase-like carbamoyl phosphate synthetase

Transport and binding proteins

Anions

TK0018	ABC-type sulfate transport system, permease component
TK0021	ABC-type sulfate transport system, ATPase component
TK0761	Sodium/phosphate symporter
TK0886	Voltage-gated chloride channel protein
TK1864	ABC-type phosphate transport system, periplasmic component
TK1866	ABC-type phosphate transport system, permease component
TK1867	ABC-type phosphate transport system, permease component
TK1868	ABC-type phosphate transport system, ATPase component
TK1977	Sodium/phosphate symporter
TK2061	Sodium/phosphate symporter

Cations

TK0015	ABC-type molybdate transport system, periplasmic component
TK0158	ABC-type iron(III) transport system, ATPase component
TK0159	ABC-type iron(III) transport system, permease component
TK0505	Magnesium and cobalt transporter
TK0570	ABC-type iron(III) transport system, periplasmic component
TK0571	ABC-type iron(III) transport system, permease component
TK0572	ABC-type iron(III) transport system, ATPase component
TK0618	Multisubunit sodium/hydrogen antiporter, MnhE subunit
TK0619	Multisubunit sodium/hydrogen antiporter, MnhF subunit
TK0620	Multisubunit sodium/hydrogen antiporter, MnhG subunit
TK0621	Multisubunit sodium/hydrogen antiporter, predicted subunit
TK0622	Multisubunit sodium/hydrogen antiporter, predicted subunit
TK0623	Multisubunit sodium/hydrogen antiporter, MnhB subunit
TK0624	Multisubunit sodium/hydrogen antiporter, MnhC subunit
TK0625	Multisubunit sodium/hydrogen antiporter, MnhD subunit
TK0627	NapA-type sodium/hydrogen antiporter
TK0652	Heavy-metal cation transporter, ZIP family
TK0661	ABC-type manganese/zinc transport system, periplasmic component (surface adhesin A homolog)
TK0706	ABC-type iron(III)-siderophore transport system, periplasmic component fused to N-terminal uncharacterized domain
TK0707	ABC-type iron(III)-siderophore transport system, permease component
TK0708	ABC-type iron(III)-siderophore transport system, ATPase component
TK0714	Iron(II) transport protein B
TK0715	Iron(II) transport protein A
TK0716	Iron(II) transport protein A

TK0717	ABC-type molybdate transport system, periplasmic component
TK0718	ABC-type molybdate transport system, permease component
TK0719	ABC-type molybdate transport system, ATPase component
TK0745	ABC-type cobalt transport system, permease component
TK0746	ABC-type cobalt transport system, ATPase component
TK0803	ABC-type manganese/zinc transport system, ATPase component
TK0804	ABC-type manganese/zinc transport system, permease component
TK0837	Heavy-metal transporting P-type ATPase
TK0867	Sodium/calcium antiporter
TK0884	NapA-type sodium/hydrogen antiporter
TK0957	Iron(II) transport protein B
TK0958	Iron(II) transport protein A
TK1063	Small-conductance mechanosensitive channel
TK1103	ABC-type cobalt transport system, CbiM permease component
TK1105	ABC-type cobalt transport system, CbiQ permease component
TK1106	ABC-type cobalt transport system, ATPase component
TK1181	ABC-type cobalt transport system, ATPase component
TK1182	Trk-type potassium transport system, membrane component
TK1336	ABC-type sodium efflux pump system, permease component
TK1337	ABC-type sodium efflux pump system, ATPase component
TK1458	Magnesium transporter
TK1559	NapA-type sodium/hydrogen antiporter
TK1560	NapA-type sodium/hydrogen antiporter
TK1595	Trk-type potassium transport system, NAD-binding component
TK1813	NapA-type sodium/hydrogen antiporter
TK1817	Cobalt/zinc/cadmium cation efflux pump protein
TK1900	Calcium-gated potassium channel protein
TK1940	Small-conductance mechanosensitive channel
TK2009	Cobalt/zinc/cadmium cation efflux pump protein
TK2018	ABC-type iron(III)-siderophore transport system, periplasmic component
TK2019	ABC-type iron(III)-siderophore transport system, permease component
TK2020	ABC-type iron(III)-siderophore transport system, ATPase component
TK2142	NhaC-type sodium/hydrogen antiporter
TK2208	ABC-type iron(III)-siderophore transport system, ATPase component
TK2209	ABC-type iron(III)-siderophore transport system, permease component
<i>Carbohydrates and organic compounds</i>	
TK0157	Xanthine/uracil permease
TK0295	Predicted sodium-dependent transporter
TK0757	ABC-type thiamine transport system, periplasmic component
TK0865	Probable vitamin B12 transport protein precursor
TK0935	TRAP-type transporter, periplasmic component
TK0937	TRAP-type transporter, fused permease components
TK1212	Xanthine/uracil permease
TK1432	Sodium-dependent transporter, SNF family
TK1771	ABC-type maltodextrin transport system, maltodextrin-binding periplasmic component
TK1772	ABC-type maltodextrin transport system, permease component
TK1773	ABC-type maltodextrin transport system, permease component
TK1775	ABC-type maltodextrin transport system, ATPase component
TK2015	C4-Dicarboxylate transporter
TK2079	Probable formate transporter
<i>Peptides and amino acids</i>	
TK0115	Sodium/proline symporter, SSF family
TK0684	Aromatic amino acid permease
TK0986	Proton/glutamate symporter, SDF family
TK1568	Sodium/proline symporter, SSF family
TK1659	Small neutral amino acid transporter
TK1756	ABC-type dipeptide/oligopeptide transport system, ATPase component
TK1757	ABC-type dipeptide/oligopeptide transport system, ATPase component
TK1758	ABC-type dipeptide/oligopeptide transport system, permease component
TK1759	ABC-type dipeptide/oligopeptide transport system, permease component
TK1760	ABC-type dipeptide/oligopeptide transport system, periplasmic component
TK1779	Oligopeptide transporter, OPT family
TK1800	ABC-type dipeptide/oligopeptide transport system, ATPase component
TK1801	ABC-type dipeptide/oligopeptide transport system, ATPase component
TK1802	ABC-type dipeptide/oligopeptide transport system, permease component
TK1803	ABC-type dipeptide/oligopeptide transport system, permease component
TK1804	ABC-type dipeptide/oligopeptide transport system, probable periplasmic component
TK1859	Probable lipoprotein releasing system, ATP-binding protein
TK1860	ABC-type dipeptide/oligopeptide transport system, permease component
TK1861	ABC-type dipeptide/oligopeptide transport system, permease component
TK2057	ABC-type dipeptide/oligopeptide transport system, permease component
TK2058	ABC-type dipeptide/oligopeptide transport system, permease component
<i>General</i>	
TK0019	Predicted ABC-type transport system, ATPase component
TK0123	Multidrug-efflux transporter
TK0161	ABC-type multidrug transport system, ATPase component
TK0198	Predicted permease, major facilitator superfamily, flame shift
TK0199	Predicted permease, major facilitator superfamily, flame shift
TK0223	Predicted permease, major facilitator superfamily
TK0230	ABC-type multidrug transport system, ATPase component
TK0231	ABC-type multidrug transport system, permease component
TK0235	Predicted permease, major facilitator superfamily
TK0326	ABC-type multidrug transport system, ATPase component

TK0355 ABC-type multidrug transport system, ATPase component
TK0436 ABC-type transporter, ATPase component, fused to acetyltransferase domain
TK0657 ABC-type transport system, probable periplasmic component
TK0658 ABC-type transport system, ATPase component
TK0659 ABC-type transport system, permease component
TK0660 ABC-type transport system, permease component
TK0676 ABC-type multidrug transport system, ATPase and permease components
TK0692 Predicted permease
TK0694 ABC-type multidrug transport system, ATPase component
TK0726 ABC-type multidrug transport system, permease component
TK0727 ABC-type multidrug transport system, ATPase component
TK0774 Predicted permease, auxin efflux carrier family
TK0827 Predicted permease, major facilitator superfamily
TK0833 Predicted permease, major facilitator superfamily
TK0942 ABC-type multidrug transport system, ATPase component
TK0974 Sodium-driven multidrug efflux pump protein
TK1007 Predicted permease, major facilitator superfamily
TK1011 Permease, major facilitator superfamily, flame shift
TK1012 Permease, major facilitator superfamily, flame shift
TK1044 Predicted permease, major facilitator superfamily
TK1144 ABC-type multidrug transport system, ATPase component
TK1145 ABC-type multidrug transport system, permease component
TK1151 ABC-type transport system, permease component
TK1152 ABC-type multidrug transport system, ATPase component
TK1267 Permease, drug/metabolite transporter (DMT) superfamily
TK1288 Sodium-driven multidrug efflux pump protein
TK1289 Sodium-driven multidrug efflux pump protein
TK1399 Predicted permease, major facilitator superfamily
TK1400 Predicted permease, major facilitator superfamily
TK1452 ABC-type multidrug transport system, ATPase and permease components
TK1547 Predicted permease, major facilitator superfamily
TK1579 ABC-type multidrug transport system, ATPase component
TK1588 ABC-type multidrug transport system, ATPase component
TK1655 Predicted permease, major facilitator superfamily
TK1745 Permease, drug/metabolite transporter (DMT) superfamily
TK1792 Permease, drug/metabolite transporter (DMT) superfamily
TK1797 Permease, drug/metabolite transporter (DMT) superfamily
TK1829 Permease, major facilitator superfamily
TK1858 Predicted permease, containing FtsX domains
TK1876 Permease, drug/metabolite transporter (DMT) superfamily
TK1936 ABC-type multidrug transport system, ATPase component
TK1938 ABC-type transport system, probable permease component
TK1992 Permease, major facilitator superfamily
TK2026 ABC-type multidrug transport system, ATPase component
TK2027 ABC-type multidrug transport system, permease component
TK2028 ABC-type multidrug transport system, permease component
TK2036 Permease, drug/metabolite transporter (DMT) superfamily
TK2053 ABC-type multidrug transport system, ATPase component
TK2054 ABC-type transport system, probable permease component
TK2055 ABC-type transport system, probable permease component
TK2161 ABC-type multidrug transport system, ATPase component
TK2186 Predicted permease, containing DUF6 domain
TK2247 Predicted permease, major facilitator superfamily
TK2251 Permease, major facilitator superfamily
TK2266 Predicted permease, major facilitator superfamily
TK2281 ABC-type multidrug transport system, ATPase component

General function prediction only

Acetyltransferases

TK0125 N-Acetyltransferase, GNAT family
TK0232 N-Acetyltransferase, GNAT family
TK0331 N-Acetyltransferase, GNAT family
TK0538 N-Acetyltransferase, GNAT family
TK1054 N-Acetyltransferase, GNAT family
TK1174 Predicted acetyltransferase, isoleucine patch superfamily

ATPases, GTPases, and ATP/GTP-binding proteins

TK0012 GTP-binding protein
TK0140 Archaeal ATPase, fused to C-terminal DUF234 domain
TK0285 Archaeal ATPase, fused to C-terminal DUF234 domain, degenerate
TK0286 Archaeal ATPase, fused to C-terminal DUF234 domain, degenerate
TK0287 Archaeal ATPase, fused to C-terminal DUF234 domain, degenerate
TK0459 Archaeal ATPase
TK0498 Predicted ATPase, AAA superfamily
TK0506 Predicted GTPase, containing TGS domain
TK0557 Predicted ATPase, DUF265 family
TK0754 Predicted ATPase, DUF699 family, fused to acetyltransferase domain
TK0776 Archaeal ATPase
TK0861 ATP-binding protein
TK0953 Predicted ATPase, AAA superfamily, containing PIN and KH nucleic acid-binding domains
TK0960 Predicted ATPase, PP-loop superfamily
TK1048 ATPase, RecA superfamily
TK1139 ATPase, AAA superfamily
TK1190 Predicted GTPase, containing NOG1 domain
TK1236 Archaeal ATPase

TK1283 Predicted ATPase, PP-loop superfamily
TK1286 Predicted GTPase, GTP1/OBG family, containing TGS domain
TK1314 Predicted ATPase, AAA superfamily
TK1465 Archaeal ATPase, fused to C-terminal DUF234 domain
TK1544 Archaeal ATPase, fused to C-terminal DUF234 domain
TK1549 Predicted ATPase
TK1551 Predicted ATPase, PP-loop superfamily
TK1556 ATPase, PP-loop superfamily
TK1573 Archaeal ATPase, fused to C-terminal DUF234 domain
TK1590 Predicted ATPase, AAA superfamily
TK1692 Predicted ATPase, PP-loop superfamily
TK1789 ATPase, RecA superfamily
TK1821 ATPase, PP-loop superfamily
TK1822 Predicted ATPase, AAA superfamily
TK1846 MoxR-related ATPase, AAA superfamily
TK1857 GTPase, MMR1/HSR1 family
TK1877 Archaeal ATPase, fused to C-terminal DUF234 domain
TK1910 ATPase, RecA superfamily
TK1932 ATPase, RecA superfamily
TK1954 Probable GTP-binding protein
TK1976 HflX-related GTP-binding protein
TK2042 ATPase, RecA superfamily
TK2098 Predicted ATPase, AAA superfamily
TK2202 Predicted ATPase, AAA superfamily
TK2220 Archaeal ATPase
TK2222 Archaeal ATPase
TK2280 ATP-binding protein

DNA/RNA-binding proteins

TK0016 Predicted nucleic acid-binding protein, containing PIN domain
TK0066 Predicted nucleic acid-binding protein, containing PIN domain
TK0128 Predicted nucleic acid-binding protein, containing PIN domain
TK0137 Predicted nucleic acid-binding protein, containing PIN domain
TK0143 Nucleic acid-binding protein, containing C2H2 zinc-finger
TK0176 Predicted nucleic acid-binding protein, containing PIN domain
TK0191 Predicted nucleic acid-binding protein, containing PIN domain
TK0212 Predicted nucleic acid-binding protein, containing PIN domain
TK0239 Putative tRNA-binding protein
TK0334 Predicted nucleic acid-binding protein, containing PIN domain
TK0337 Predicted nucleic acid-binding protein, containing PIN domain and zinc-ribbon module
TK0343 Predicted nucleic acid-binding protein, containing PIN domain
TK0374 Predicted nucleic acid-binding protein, containing PIN domain
TK0456 Predicted nucleic acid-binding protein, containing PIN domain
TK0481 RNA-binding protein, containing KH domain
TK0542 Predicted nucleic acid-binding protein, containing PIN domain
TK0553 Nucleic acid-binding protein, containing OB-fold domain
TK0562 Predicted DNA-binding protein, DUF134 family
TK0649 Putative tRNA-binding protein
TK0734 Predicted nucleic acid-binding protein, containing PIN domain
TK0796 DNA-binding protein, containing HTH domain of resolvase
TK0800 RNA-binding protein, containing KH domain
TK0889 Predicted nucleic acid-binding protein, containing PIN domain
TK0903 RNA-binding protein, containing THUMP domain
TK0907 DNA-binding protein Translin homolog
TK0910 Predicted nucleic acid-binding protein, containing PIN domain
TK0924 Predicted nucleic acid-binding protein, containing PIN domain
TK0956 LexA-related DNA-binding protein
TK0972 Predicted nucleic acid-binding protein, containing PIN domain
TK0998 Predicted nucleic acid-binding protein, containing PIN domain
TK1014 Predicted nucleic acid-binding protein, containing PIN domain
TK1027 Predicted nucleic acid-binding protein, containing PIN domain
TK1101 RNA-binding protein, Nop10p family
TK1112 RNA-binding protein, containing KH domain
TK1118 Predicted nucleic acid-binding protein, containing PIN domain
TK1169 RNA-binding protein, containing S1 domain
TK1185 Predicted nucleic acid-binding protein, containing PIN domain
TK1256 Predicted nucleic acid-binding protein, containing PIN domain
TK1257 RNA-binding protein, containing THUMP domain
TK1275 Predicted RNA-binding protein, CRS1/YhbY family
TK1278 Double-stranded DNA-binding protein
TK1290 Predicted nucleic acid-binding protein, containing PIN domain
TK1644 Predicted nucleic acid-binding protein, containing PIN domain
TK1751 Predicted nucleic acid-binding protein, containing PIN domain
TK1763 Predicted nucleic acid-binding protein, containing PIN domain
TK1945 Predicted nucleic acid-binding protein, containing PIN domain
TK1995 Predicted nucleic acid-binding protein, containing PIN domain
TK2005 Predicted nucleic acid-binding protein, containing PIN domain
TK2065 Predicted RNA-binding protein, containing TRAM domain
TK2067 Predicted nucleic acid-binding protein, containing PIN domain
TK2097 RNA-binding protein, containing THUMP domain
TK2155 Predicted nucleic acid-binding protein, containing PIN domain
TK2156 RNA-binding protein, containing PUA domain
TK2227 RNA-binding protein FAU-1
TK2228 Predicted nucleic acid-binding protein, containing PIN domain

TK2262	Predicted nucleic acid-binding protein, containing PIN domain
TK2275	RNA-binding protein, containing PUA domain
TK2306	Predicted nucleic acid-binding protein, containing PIN domain
<i>Hydrolases</i>	
TK0014	Metal-dependent phosphohydrolase, HD superfamily
TK0029	Zinc-dependent hydrolase, glyoxylase II family
TK0058	Hydrolase, HAD superfamily
TK0110	Hydrolase, HAD superfamily
TK0141	Hydrolase, metallo-beta-lactamase superfamily
TK0238	Carbon-nitrogen hydrolase
TK0251	Predicted hydrolase, HAD superfamily
TK0288	Phosphonate metabolism protein PhnP homolog, metallo-beta-lactamase superfamily
TK0303	Membrane-bound metal-dependent hydrolase
TK0312	Metal-dependent phosphohydrolase, HD superfamily
TK0313	ArgE/DapE-related deacylase
TK0314	Hydrolase, metallo-beta-lactamase superfamily
TK0327	Phosphohydrolase, PHP family
TK0365	Membrane-bound phosphoesterase, PAP2 superfamily
TK0449	Metal-dependent phosphohydrolase, HD superfamily
TK0477	Hydrolase, HAD superfamily
TK0480	Metal-dependent phosphohydrolase, HD superfamily
TK0540	Metal-dependent phosphohydrolase, HD superfamily
TK0547	Metallophosphoesterase, calcineurin superfamily
TK0574	Metallophosphoesterase, calcineurin superfamily
TK0645	Predicted phosphohydrolase, DHH family
TK0667	Metallophosphoesterase, calcineurin superfamily
TK0686	Hydrolase, HAD superfamily
TK0688	Membrane-associated phosphatase, PAP2 superfamily
TK0712	Hydrolase, metallo-beta-lactamase superfamily
TK0735	Hydrolase, metallo-beta-lactamase superfamily
TK0758	Metal-dependent amidohydrolase
TK0874	Predicted metallophosphoesterase, calcineurin superfamily
TK0887	Phosphohydrolase, PHP family
TK0968	Predicted hydrolase, HAD superfamily
TK1037	Metallophosphoesterase, calcineurin superfamily
TK1071	Phosphodiesterase
TK1137	Acid phosphatase SurE homolog
TK1269	Predicted phosphoesterase, DHH family, fused to NAD-binding TrkA-N domain
TK1383	Hydrolase, HAD superfamily
TK1386	Metallophosphoesterase, calcineurin superfamily
TK1401	Hydrolase, alpha/beta superfamily
TK1466	ArgE/DapE-related deacylase
TK1469	Hydrolase, metallo-beta-lactamase superfamily
TK1605	Hydrolase, metallo-beta-lactamase superfamily
TK1611	Predicted metal-dependent hydrolase
TK1618	Metallophosphoesterase, calcineurin superfamily
TK1652	Predicted thioesterase
TK1681	Predicted hydrolase, metallo-beta-lactamase superfamily
TK1734	Predicted sugar phosphatase, HAD superfamily
TK1778	Predicted hydrolase, metallo-beta-lactamase superfamily
TK1781	ArgE/DapE-related deacylase
TK1811	Hydrolase, HAD superfamily
TK1878	Alkylphosphonate utilization protein PhnP homolog, metallo-beta-lactamase superfamily
TK1916	Carbon-nitrogen hydrolase
TK1944	Predicted metal-dependent phosphohydrolase, HD superfamily
TK2062	Metallophosphoesterase, calcineurin superfamily
TK2099	Predicted membrane-bound metal-dependent hydrolase
TK2166	ArgE/DapE-related deacylase
TK2232	Hydrolase, metallo-beta-lactamase superfamily
TK2288	Metallophosphoesterase, calcineurin superfamily
TK2301	Hydrolase, HAD superfamily
<i>Methyltransferases</i>	
TK0037	SAM-dependent methyltransferase, UbiE/COQ5 family
TK0224	SAM-dependent methyltransferase, UbiE/COQ5 family
TK0234	Predicted SAM-dependent methyltransferase
TK0704	SAM-dependent methyltransferase, UbiE/COQ5 family
TK0729	SAM-dependent methyltransferase, UbiE/COQ5 family
TK1273	SAM-dependent methyltransferase, UbiE/COQ5 family
TK1784	Predicted SAM-dependent methyltransferase, DUF890 family
TK1917	Predicted SAM-dependent methyltransferase
TK2045	SAM-dependent methyltransferase, UPF0020 family
TK2241	SAM-dependent methyltransferase, UbiE/COQ5 family
<i>Nucleotidyltransferases</i>	
TK0063	Nucleotidyltransferase, fused to N-terminal DNA-binding domain
TK0222	Nucleotidyltransferase
TK0341	Nucleotidyltransferase, fused to N-terminal DNA-binding domain
TK0674	Nucleotidyltransferase
TK0945	Nucleotidyltransferase
TK0962	Nucleotidyltransferase
TK1073	Nucleotidyltransferase
TK1128	Nucleotidyltransferase
TK1476	Nucleotidyltransferase
TK1709	Nucleotidyltransferase

TK1994 Nucleotidyltransferase

Others

TK0187 Predicted glutamine amidotransferase, class I
TK0319 Pterin-binding protein
TK0549 Carbamoyl transferase, NodU family
TK0939 GHMP kinase
TK1035 Predicted glutamine amidotransferase, class II
TK1473 Amino acid kinase
TK1843 Carbohydrate/pyrimidine kinase, PfkB family
TK1886 YjeF-related probable carbohydrate kinase
TK2029 Carbohydrate/pyrimidine kinase, PfkB family
TK2141 GHMP kinase
TK2242 GHMP kinase
TK2285 Carbohydrate/pyrimidine kinase, PfkB family

Unknown function

TK0005 CoA-binding protein
TK0030 Cyclase-related protein
TK0071 Met-10+ like protein
TK0200 Phosphoenolpyruvate synthetase-related protein
TK0228 Met-10+ like protein (C-terminus)
TK0358 RNA terminal phosphate cyclase operon orfB homolog, UPF0027 family
TK0497 Met-10+ like protein
TK0563 6-Pyruvoyl-tetrahydropterin synthase-related protein
TK0779 Sugar fermentation stimulation protein
TK0786 Integral membrane protein Rhomboid homolog
TK0831 Peroxiredoxin-related protein (C-terminus)
TK0881 Universal stress protein
TK0984 Alanyl-tRNA synthetase-related protein (partial)
TK0991 Carbon starvation protein A
TK1059 Ferritin-related protein
TK1189 Bacitracin resistance protein BacA homolog
TK1205 Phospholipid-binding protein, PBP family
TK1382 Dopamine beta hydroxylase-related protein, containing DOMON domain
TK1404 Phosphomannomutase-related protein
TK1438 Predicted fibronectin-binding protein
TK1497 Enolase-related protein
TK1550 Asparaginyl-tRNA synthetase-related protein (N-truncation)
TK1563 Phospholipase D-related protein
TK1607 Alanyl-tRNA synthetase-related protein (C-terminus)
TK1890 Histone macroH2A-related protein (C-terminus)
TK1893 Glycerate kinase-related protein, containing MOFRL domain (C-terminus)
TK1974 Carboxymuconolactone decarboxylase-related protein
TK1999 Ferritin-like protein
TK2034 Universal stress protein
TK2109 Biotin synthase-related protein, radical SAM superfamily
TK2181 Predicted calcium-binding protein
TK2223 Met-10+ like protein
TK2248 Biotin synthase-related protein, radical SAM superfamily
TK2264 Predicted calcium-binding protein

Mobile elements

Transposon-related functions

TK0298 Probable transposase
TK0495 Probable transposase
TK0654 Probable transposase
TK0655 Predicted site-specific integrase/resolvase
TK0850 Probable transposase
TK0931 Probable transposase
TK0932 IS200-like transposase
TK1841 Predicted site-specific integrase-resolvase
TK1842 Probable transposase

TKV1

TK0073 SSV1 integrase homolog, C-fragment
TK0074 Hypothetical protein
TK0075 Hypothetical protein
TK0076 Subtilisin-like serine protease precursor
TK0077 Hypothetical membrane protein
TK0078 Hypothetical membrane protein
TK0079 Hypothetical membrane protein
TK0080 Hypothetical membrane protein
TK0081 Hypothetical protein
TK0082 Hypothetical protein
TK0083 Hypothetical membrane protein
TK0084 Hypothetical protein
TK0085 Hypothetical membrane protein
TK0086 Predicted transcription regulator, ArsR family
TK0087 Hypothetical protein
TK0088 Hypothetical membrane protein, conserved
TK0089 Hypothetical protein
TK0090 Hypothetical protein
TK0091 Hypothetical protein
TK0092 Hypothetical membrane protein
TK0093 Hypothetical membrane protein
TK0094 Transcription regulator, SpoVT/AbrB family

TK0095	Hypothetical protein
TK0096	DNA replication licensing factor, MCM2/3/5 family
TK0097	Hypothetical protein
TK0098	Hypothetical protein
TK0099	Hypothetical protein
TK0100	Hypothetical protein
TK0101	Hypothetical protein
TK0102	Hypothetical protein, conserved
TK0103	Hypothetical protein
TK0104	Probable integrase/recombinase
TK0105	SSV1 integrase homolog, N-fragment
<i>TKV2</i>	
TK0381	SSV1 integrase homolog, C-fragment
TK0382	Hypothetical protein
TK0383	Hypothetical protein
TK0384	Hypothetical membrane protein, conserved
TK0385	Hypothetical protein, conserved
TK0386	Hypothetical membrane protein, conserved
TK0387	Hypothetical membrane protein, conserved
TK0388	Hypothetical membrane protein, conserved
TK0389	Hypothetical membrane protein, conserved
TK0390	Hypothetical protein, conserved
TK0391	Hypothetical protein, conserved, containing leucine zipper motif
TK0392	Hypothetical protein, conserved
TK0393	Hypothetical membrane protein, conserved, containing leucine zipper motif
TK0394	Predicted ATPase, AAA superfamily
TK0395	Hypothetical protein, conserved
TK0396	Hypothetical protein
TK0397	Hypothetical membrane protein, conserved
TK0398	Hypothetical protein
TK0399	Hypothetical protein
TK0400	Hypothetical protein
TK0401	Hypothetical protein, conserved
TK0402	Predicted transcription regulator, SpoVT/AbrB family
TK0403	Hypothetical membrane protein, conserved
TK0404	Hypothetical protein, conserved
TK0405	Predicted transcription regulator, SpoVT/AbrB family
TK0406	Predicted transcription regulator, SpoVT/AbrB family
TK0407	Hypothetical protein
TK0408	Hypothetical protein, conserved
TK0409	Predicted transcription regulator, SpoVT/AbrB family
TK0410	Hypothetical protein, conserved
TK0411	Hypothetical protein, conserved
TK0412	Hypothetical protein
TK0413	Hypothetical protein
TK0414	Hypothetical protein
TK0415	Hypothetical protein
TK0416	Hypothetical protein, conserved
TK0417	Hypothetical membrane protein
TK0418	Hypothetical protein
TK0419	Hypothetical protein
TK0420	Hypothetical protein, conserved
TK0421	Predicted integrase, N-fragment
<i>TKV3</i>	
TK0575	Predicted integrase, N-fragment
TK0576	Hypothetical protein, conserved
TK0577	Hypothetical protein
TK0578	Hypothetical protein, conserved
TK0579	Hypothetical protein
TK0580	Hypothetical protein
TK0581	Hypothetical protein
TK0582	DNA polymerase sliding clamp (proliferating cell nuclear antigen)
TK0583	Hypothetical protein
TK0584	Hypothetical protein
TK0585	Hypothetical protein
TK0586	Hypothetical protein
TK0587	Hypothetical protein
TK0588	Predicted transcription regulator, SpoVT/AbrB family
TK0589	Hypothetical protein
TK0590	Hypothetical protein
TK0591	Predicted N-acetyltransferase, GNAT family
TK0592	Hypothetical protein, conserved
TK0593	Hypothetical protein, conserved
TK0594	Hypothetical membrane protein
TK0595	Hypothetical membrane protein
TK0596	Hypothetical membrane protein
TK0597	Hypothetical protein
TK0598	Hypothetical protein
TK0599	Hypothetical protein
TK0600	Hypothetical protein, conserved
TK0601	Predicted ATPase, AAA superfamily
TK0602	Hypothetical protein, conserved, containing leucine zipper motif
TK0603	Hypothetical protein, conserved

TK0604 Hypothetical protein, conserved, containing leucine zipper motif
 TK0605 Hypothetical protein, conserved
 TK0606 Hypothetical membrane protein, conserved
 TK0607 Hypothetical membrane protein, conserved
 TK0608 Hypothetical membrane protein, conserved
 TK0609 Hypothetical membrane protein, conserved
 TK0610 Hypothetical protein, conserved
 TK0611 Hypothetical membrane protein, conserved
 TK0612 Hypothetical protein
 TK0613 Hypothetical membrane protein
 TK0614 SSV1 integrase homolog, C-fragment

TKV4

TK1342 Predicted integrase, C-fragment
 TK1343 Predicted nucleic acid-binding protein, containing PIN domain
 TK1344 Hypothetical protein
 TK1345 Hypothetical protein
 TK1346 Hypothetical protein
 TK1347 Hypothetical protein
 TK1348 Hypothetical protein
 TK1349 Hypothetical protein, conserved
 TK1350 Hypothetical protein, containing leucine zipper motif
 TK1351 Hypothetical membrane protein
 TK1352 Hypothetical protein
 TK1353 Hypothetical protein
 TK1354 Hypothetical protein
 TK1355 Hypothetical membrane protein
 TK1356 Predicted ATPase, AAA superfamily
 TK1357 Hypothetical protein
 TK1358 Hypothetical protein
 TK1359 Hypothetical protein
 TK1360 Hypothetical protein
 TK1361 DNA replication licensing factor, MCM2/3/5 family
 TK1362 Hypothetical membrane protein
 TK1363 Hypothetical protein
 TK1364 Hypothetical protein
 TK1365 Hypothetical protein
 TK1366 Hypothetical protein
 TK1367 Hypothetical protein
 TK1368 Hypothetical protein
 TK1369 Hypothetical protein, conserved
 TK1370 Hypothetical protein
 TK1371 Hypothetical protein
 TK1372 Predicted transcription regulator, SpoVT/AbrB family
 TK1373 Hypothetical protein
 TK1374 Hypothetical protein, conserved
 TK1375 Hypothetical membrane protein
 TK1376 Hypothetical protein
 TK1377 Hypothetical protein
 TK1378 Predicted integrase, N-fragment

Hypothetical proteins, conserved

TK0003 Hypothetical membrane protein, conserved
 TK0004 Hypothetical membrane protein, conserved
 TK0006 Hypothetical protein, conserved
 TK0007 Hypothetical protein, conserved
 TK0009 Hypothetical protein, conserved
 TK0011 Hypothetical protein, conserved, UPF0047 family
 TK0013 Hypothetical protein, conserved
 TK0020 Hypothetical protein, conserved
 TK0022 Hypothetical protein, conserved, Band 7 family
 TK0023 Hypothetical protein, conserved
 TK0024 Hypothetical protein, conserved
 TK0025 Hypothetical membrane protein, conserved
 TK0027 Hypothetical protein, conserved, UPF0066 family
 TK0032 Hypothetical protein, conserved
 TK0033 Hypothetical protein, conserved, containing leucine zipper motif
 TK0034 Hypothetical protein, conserved
 TK0035 Hypothetical membrane protein, conserved
 TK0036 Hypothetical protein, conserved, DUF1495 family
 TK0050 Hypothetical membrane protein, conserved
 TK0054 Hypothetical protein, conserved
 TK0055 Hypothetical protein, conserved, DUF1530 family
 TK0056 Hypothetical protein, conserved, DUF437 family
 TK0060 Hypothetical protein, conserved, DUF127 family
 TK0061 Hypothetical protein, conserved
 TK0062 Hypothetical protein, conserved, DUF62 family
 TK0064 Hypothetical protein, conserved, DUF103 family
 TK0065 Hypothetical protein, conserved
 TK0068 Hypothetical membrane protein, conserved
 TK0070 Hypothetical protein, conserved
 TK0108 Hypothetical membrane protein, conserved
 TK0109 Hypothetical protein, conserved
 TK0113 Hypothetical protein, conserved
 TK0114 Hypothetical protein, conserved

TK0129	Hypothetical protein, conserved, DUF356 family
TK0130	Hypothetical protein, conserved, DUF114 family
TK0131	Hypothetical protein, conserved, DUF505 family
TK0133	Hypothetical protein, conserved
TK0144	Hypothetical protein, conserved
TK0145	Hypothetical membrane protein, conserved
TK0146	Hypothetical membrane protein, conserved
TK0148	Hypothetical protein, conserved
TK0152	Hypothetical membrane protein, conserved
TK0154	Hypothetical protein, conserved
TK0163	Hypothetical membrane protein, conserved
TK0167	Hypothetical protein, conserved, radical SAM superfamily
TK0171	Hypothetical protein, conserved
TK0172	Hypothetical membrane protein, conserved, DUF373 family
TK0173	Hypothetical protein, conserved, DUF77 family
TK0174	Hypothetical protein, conserved, AMMECR1 family
TK0175	Hypothetical protein, conserved, DUF207 family
TK0177	Hypothetical protein, conserved
TK0179	Hypothetical protein, conserved, DUF35 family
TK0182	Hypothetical protein, conserved, DUF124 family
TK0188	Hypothetical protein, conserved, radical SAM superfamily
TK0192	Hypothetical protein, conserved, DUF104 family
TK0195	Hypothetical membrane protein, conserved, containing DUF835 domain
TK0196	Hypothetical protein, conserved, containing DUF1246 and DUF1297 domains
TK0203	Hypothetical protein, conserved, containing DUF1246 and DUF1297 domains
TK0205	Hypothetical protein, conserved
TK0206	Hypothetical protein, conserved
TK0213	Hypothetical protein, conserved, UPF0175 family
TK0215	Hypothetical protein, conserved
TK0221	Hypothetical protein, conserved, DUF712 family
TK0226	Hypothetical protein, conserved
TK0227	Hypothetical protein, conserved
TK0271	Hypothetical protein, conserved
TK0291	Hypothetical protein, conserved
TK0292	Hypothetical protein, conserved, DUF82 family
TK0293	Hypothetical protein, conserved, DUF115 family
TK0299	Hypothetical protein, conserved
TK0310	Hypothetical protein, conserved
TK0311	Hypothetical protein, conserved
TK0315	Hypothetical protein, conserved, DUF504 family
TK0318	Hypothetical protein, conserved
TK0320	Hypothetical protein, conserved, DUF72 family
TK0322	Hypothetical membrane protein, conserved
TK0323	Hypothetical membrane protein, conserved
TK0324	Hypothetical membrane protein, conserved
TK0325	Hypothetical membrane protein, conserved
TK0335	Hypothetical protein, conserved, DUF104 family
TK0336	Hypothetical protein, conserved, LamB/YcsF family
TK0339	Hypothetical protein, conserved, containing leucine zipper motif
TK0340	Hypothetical protein, conserved, DUF103 family
TK0342	Hypothetical protein, conserved
TK0346	Hypothetical protein, conserved
TK0350	Hypothetical protein, conserved
TK0351	Hypothetical protein, conserved
TK0356	Hypothetical membrane protein, conserved
TK0357	Hypothetical membrane protein, conserved
TK0359	Hypothetical protein, conserved
TK0361	Hypothetical protein, conserved, DUF101 family
TK0367	Hypothetical membrane protein, conserved, DUF998 family
TK0373	Hypothetical protein, conserved
TK0377	Hypothetical protein, conserved, DUF835 family (C-terminus)
TK0379	Hypothetical protein, conserved, DUF763 family
TK0380	Hypothetical protein, conserved, DUF89 family
TK0431	Hypothetical protein, conserved, containing DUF1246 and DUF1297 domains
TK0440	Hypothetical protein, conserved
TK0442	Hypothetical protein, conserved
TK0445	Hypothetical protein, conserved, DUF196 family
TK0446	Hypothetical protein, conserved
TK0451	Hypothetical protein, conserved
TK0453	Hypothetical protein, conserved, DUF73 family, insertion
TK0454	Hypothetical protein, conserved
TK0455	Hypothetical protein, conserved, DUF48 family
TK0462	Hypothetical protein, conserved
TK0463	Hypothetical protein, conserved
TK0466	Hypothetical protein, conserved
TK0467	Hypothetical protein, conserved
TK0468	Hypothetical protein, conserved
TK0469	Hypothetical protein, conserved, containing SWIM zinc finger domain
TK0472	Hypothetical protein, conserved
TK0473	Hypothetical protein, conserved, UPF0148 family
TK0476	Hypothetical protein, conserved, containing leucine zipper motif
TK0478	Hypothetical protein, conserved
TK0479	Hypothetical protein, conserved

TK0482	Hypothetical protein, conserved
TK0483	Hypothetical protein, conserved
TK0484	Hypothetical protein, conserved
TK0485	Hypothetical protein, conserved
TK0486	Hypothetical protein, conserved
TK0487	Hypothetical protein, conserved
TK0488	Hypothetical protein, conserved
TK0489	Hypothetical protein, conserved
TK0490	Hypothetical protein, conserved
TK0491	Hypothetical protein, conserved, containing ATP/GTP-binding site motif A
TK0493	Hypothetical membrane protein, conserved, containing DUF11 domain
TK0500	Hypothetical protein, conserved
TK0501	Hypothetical protein, conserved
TK0503	Hypothetical protein, conserved, cupin superfamily
TK0510	Hypothetical protein, conserved, DUF147 family
TK0513	Hypothetical protein, conserved
TK0515	Hypothetical protein, conserved, DUF190 family
TK0518	Hypothetical protein, conserved
TK0519	Hypothetical protein, conserved, UPF0029 family
TK0526	Hypothetical membrane protein, conserved
TK0527	Hypothetical protein, conserved
TK0529	Hypothetical protein, conserved
TK0534	Hypothetical protein, conserved
TK0536	Hypothetical protein, conserved
TK0546	Hypothetical protein, conserved
TK0554	Hypothetical protein, conserved, DUF358 family
TK0558	Hypothetical protein, conserved, containing CBS domains and PHD finger motif
TK0565	Hypothetical protein, conserved, DUF296 family
TK0569	Hypothetical protein, conserved
TK0573	Hypothetical protein, conserved, DUF447 family
TK0628	Hypothetical protein, conserved
TK0640	Hypothetical protein, conserved, containing leucine zipper motif
TK0641	Hypothetical protein, conserved, DUF439 family
TK0642	Hypothetical protein, conserved
TK0644	Hypothetical protein, conserved
TK0646	Hypothetical protein, conserved
TK0648	Hypothetical protein, conserved
TK0656	Hypothetical protein, conserved
TK0663	Hypothetical protein, conserved
TK0666	Hypothetical protein, conserved
TK0668	Hypothetical protein, conserved, containing PRC-barrel domain
TK0670	Hypothetical protein, conserved
TK0675	Hypothetical protein, conserved, radical SAM superfamily
TK0687	Hypothetical protein, conserved, DUF437 family
TK0689	Hypothetical membrane protein, conserved
TK0691	Hypothetical membrane protein, conserved, containing DUF835 domain
TK0693	Hypothetical membrane protein, conserved
TK0695	Hypothetical protein, conserved
TK0696	Hypothetical protein, conserved
TK0703	Hypothetical protein, conserved, radical SAM superfamily
TK0710	Hypothetical protein, conserved, DUF364 family
TK0711	Hypothetical protein, conserved, UPF0066 family
TK0713	Hypothetical membrane protein, conserved
TK0720	Hypothetical protein, conserved
TK0721	Hypothetical protein, conserved
TK0725	Hypothetical protein, conserved
TK0728	Hypothetical membrane protein, conserved
TK0733	Hypothetical protein, conserved, DUF104 family
TK0737	Hypothetical protein, conserved (C-terminus)
TK0738	Hypothetical membrane protein, conserved
TK0739	Hypothetical membrane protein, conserved
TK0741	Hypothetical protein, conserved
TK0742	Hypothetical membrane protein, conserved, DUF998 family
TK0743	Hypothetical membrane protein, conserved, DUF63 family
TK0744	Hypothetical protein, conserved
TK0750	Hypothetical protein, conserved
TK0751	Hypothetical protein, conserved
TK0755	Hypothetical protein, conserved, DUF88 family
TK0756	Hypothetical protein, conserved, DUF88 family
TK0763	Hypothetical protein, conserved
TK0767	Hypothetical protein, conserved
TK0768	Hypothetical protein, conserved, YggU family
TK0769	Hypothetical protein, conserved, DUF402 family
TK0771	Hypothetical protein, conserved (N-terminus)
TK0772	Hypothetical membrane protein, conserved
TK0778	Hypothetical protein, conserved, containing Toprim domain
TK0783	Hypothetical membrane protein, conserved
TK0788	Hypothetical membrane protein, conserved, DUF63 family
TK0790	Hypothetical protein, conserved, UPF0179 family
TK0791	Hypothetical protein, conserved, DUF79 family
TK0793	Hypothetical protein, conserved, DUF198 family
TK0797	Hypothetical protein, conserved, DUF530 family
TK0807	Hypothetical protein, conserved

TK0808	Hypothetical protein, conserved
TK0811	Hypothetical protein, conserved
TK0813	Hypothetical protein, conserved, containing leucine zipper motif
TK0821	Hypothetical membrane protein, conserved
TK0822	Hypothetical membrane protein, conserved, containing DUF835 domain
TK0824	Hypothetical protein, conserved
TK0825	Hypothetical protein, conserved
TK0826	Hypothetical protein, conserved
TK0829	Hypothetical membrane protein, conserved, DUF998 family
TK0830	Hypothetical protein, conserved (N-terminus)
TK0832	Hypothetical membrane protein, conserved
TK0841	Hypothetical membrane protein, conserved
TK0849	Hypothetical protein, conserved
TK0851	Hypothetical protein, conserved, N-truncation
TK0852	Hypothetical protein, conserved, radical SAM superfamily
TK0855	Hypothetical protein, conserved
TK0858	Hypothetical protein, conserved, DUF64 family
TK0859	Hypothetical protein, conserved
TK0862	Hypothetical protein, conserved
TK0873	Hypothetical protein, conserved
TK0877	Hypothetical membrane protein, conserved
TK0879	Hypothetical protein, conserved
TK0883	Hypothetical protein, conserved, containing CBS domains
TK0885	Hypothetical protein, conserved
TK0894	Hypothetical protein, conserved
TK0896	Hypothetical membrane protein, conserved
TK0897	Hypothetical protein, conserved, radical SAM superfamily
TK0898	Hypothetical protein, conserved, C-truncation
TK0900	Hypothetical protein, conserved, DUF655 family
TK0904	Hypothetical protein, conserved
TK0909	Hypothetical protein, conserved, DUF104 family
TK0917	Hypothetical protein, conserved, UPF0175 family
TK0918	Hypothetical protein, conserved
TK0922	Hypothetical protein, conserved
TK0930	Hypothetical protein, conserved
TK0933	Hypothetical protein, conserved
TK0940	Hypothetical protein, conserved
TK0941	Hypothetical membrane protein, conserved
TK0946	Hypothetical protein, conserved
TK0947	Hypothetical protein, conserved
TK0959	Hypothetical membrane protein, conserved, UPF0132 family
TK0963	Hypothetical protein, conserved, DUF712 family
TK0965	Hypothetical protein, conserved, DUF79 family
TK0966	Hypothetical protein, conserved
TK0971	Hypothetical membrane protein, conserved, DUF125 family
TK0973	Hypothetical protein, conserved
TK0979	Hypothetical membrane protein, conserved, DUF81 family
TK0992	Hypothetical protein, conserved
TK0993	Hypothetical protein, conserved
TK0995	Hypothetical protein, conserved, DUF59 family
TK0996	Hypothetical membrane protein, conserved
TK1001	Hypothetical protein, conserved
TK1003	Hypothetical protein, conserved
TK1006	Hypothetical protein, conserved
TK1013	Hypothetical protein, conserved, DUF104 family
TK1016	Hypothetical protein, conserved (C-terminus)
TK1018	Hypothetical protein, conserved, DUF173 family
TK1019	Hypothetical protein, conserved
TK1020	Hypothetical membrane protein
TK1023	Hypothetical protein, conserved
TK1025	Hypothetical protein, conserved, containing ATP/GTP-binding site motif A
TK1028	Hypothetical protein, conserved, DUF104 family
TK1029	Hypothetical protein, conserved, DUF123 family
TK1030	Hypothetical protein, conserved
TK1036	Hypothetical protein, conserved, containing CBS domains
TK1040	Hypothetical protein, conserved
TK1042	Hypothetical membrane protein, conserved
TK1043	Hypothetical protein, conserved
TK1046	Hypothetical protein, conserved, containing PKD domain
TK1050	Hypothetical membrane protein, conserved
TK1053	Hypothetical membrane protein, conserved, DUF81 family
TK1060	Hypothetical protein, conserved
TK1061	Hypothetical protein, conserved
TK1067	Hypothetical protein, conserved, containing DUF650 and DUF651 domains
TK1068	Hypothetical protein, conserved
TK1069	Hypothetical protein, conserved
TK1072	Hypothetical protein, conserved, DUF103 family
TK1074	Hypothetical protein, conserved
TK1090	Hypothetical membrane protein, conserved
TK1092	Hypothetical protein, conserved, containing ATP/GTP-binding site motif A
TK1095	Hypothetical membrane protein, conserved
TK1096	Hypothetical membrane protein, conserved, DUF340 family
TK1097	Hypothetical protein, conserved

TK1102	Hypothetical protein, conserved, DUF75 family
TK1104	Hypothetical membrane protein, conserved
TK1107	Hypothetical protein, conserved
TK1115	Hypothetical protein, conserved, containing TPR-repeat domain
TK1120	Hypothetical protein, conserved, DUF192 family
TK1127	Hypothetical protein, conserved, DUF103 family
TK1135	Hypothetical protein, conserved, radical SAM superfamily
TK1136	Hypothetical protein, conserved
TK1138	Hypothetical membrane protein, conserved
TK1142	Hypothetical protein, conserved
TK1148	Hypothetical protein, conserved
TK1150	Hypothetical membrane protein, conserved
TK1153	Hypothetical protein, conserved
TK1162	Hypothetical membrane protein, conserved, DUF20 family
TK1163	Hypothetical protein, conserved
TK1166	Hypothetical protein, conserved
TK1168	Hypothetical protein, conserved
TK1171	Hypothetical protein, conserved, N-truncation
TK1176	Hypothetical membrane protein, conserved
TK1178	Hypothetical protein, conserved
TK1180	Hypothetical protein, conserved
TK1184	Hypothetical protein, conserved
TK1186	Hypothetical protein, conserved, containing CBS domains
TK1187	Hypothetical membrane protein, conserved, containing DUF835 domain
TK1192	Hypothetical membrane protein, conserved
TK1194	Hypothetical protein, conserved, DUF555 family
TK1195	Hypothetical protein, conserved, DUF357 family
TK1196	Hypothetical protein, conserved
TK1197	Hypothetical protein, conserved
TK1201	Hypothetical protein, conserved
TK1202	Hypothetical protein, conserved, flame shift
TK1203	Hypothetical protein, conserved, flame shift
TK1204	Hypothetical protein, conserved
TK1206	Hypothetical membrane protein, conserved
TK1207	Hypothetical protein, conserved
TK1213	Hypothetical membrane protein, conserved, DUF996 family
TK1232	Hypothetical protein, conserved, DUF354 family
TK1233	Hypothetical membrane protein, conserved, DUF95 family
TK1238	Hypothetical protein, conserved
TK1240	Hypothetical membrane protein, conserved
TK1241	Hypothetical protein, conserved
TK1242	Hypothetical protein, conserved
TK1243	Hypothetical protein, conserved
TK1245	Hypothetical protein, conserved
TK1246	Hypothetical protein, conserved
TK1248	Hypothetical protein, conserved, DUF126 family
TK1249	Hypothetical protein, conserved, DUF521 family
TK1253	Hypothetical protein, conserved
TK1255	Hypothetical protein, conserved
TK1258	Hypothetical membrane protein, conserved, DUF92 family
TK1263	Hypothetical protein, conserved
TK1268	Hypothetical protein, conserved
TK1270	Hypothetical protein, conserved, containing PRC-barrel domain
TK1294	Hypothetical membrane protein, conserved, DUF70 family
TK1296	Hypothetical protein, conserved, DUF424 family
TK1298	Hypothetical protein, conserved, DUF1464 family
TK1300	Hypothetical membrane protein, conserved
TK1302	Hypothetical membrane protein, conserved
TK1303	Hypothetical protein, conserved
TK1304	Hypothetical protein, conserved
TK1312	Hypothetical protein, conserved, containing V4R domain
TK1313	Hypothetical protein, conserved
TK1317	Hypothetical membrane protein, conserved
TK1329	Hypothetical protein, conserved, DUF257 family
TK1333	Hypothetical membrane protein, conserved
TK1335	Hypothetical protein, conserved, DUF54 family
TK1338	Hypothetical membrane protein, conserved
TK1340	Hypothetical membrane protein, conserved
TK1385	Hypothetical protein, conserved
TK1387	Hypothetical membrane protein, conserved
TK1388	Hypothetical protein, conserved
TK1390	Hypothetical protein, conserved
TK1407	Hypothetical membrane protein, conserved
TK1412	Hypothetical protein, conserved, radical SAM superfamily fused to B12-binding domain
TK1422	Hypothetical protein, conserved, DUF516 family
TK1423	Hypothetical protein, conserved
TK1424	Hypothetical protein, conserved
TK1425	Hypothetical protein, conserved
TK1427	Hypothetical membrane protein, conserved
TK1433	Hypothetical protein, conserved
TK1440	Hypothetical protein, conserved
TK1453	Hypothetical protein, conserved
TK1459	Hypothetical protein, conserved

TK1463	Hypothetical protein, conserved
TK1464	Hypothetical protein, conserved
TK1475	Hypothetical protein, conserved, DUF86 family
TK1477	Hypothetical protein, conserved, DUF52 family
TK1480	Hypothetical protein, conserved
TK1483	Hypothetical protein, conserved
TK1484	Hypothetical protein, conserved
TK1488	Hypothetical protein, conserved, UPF0153 family
TK1492	Hypothetical protein, conserved
TK1493	Hypothetical protein, conserved, FUN14 family
TK1508	Hypothetical membrane protein, conserved
TK1510	Hypothetical protein, conserved
TK1511	Hypothetical protein, conserved, UPF0150 family
TK1516	Hypothetical membrane protein, conserved, DUF106 family
TK1543	Hypothetical protein, conserved, DUF171 family
TK1545	Hypothetical protein, conserved, DUF135 family
TK1552	Hypothetical membrane protein, conserved
TK1553	Hypothetical protein, conserved
TK1555	Hypothetical membrane protein, conserved
TK1558	Hypothetical protein, conserved, containing CBS domains
TK1561	Hypothetical membrane protein, conserved, MarC family
TK1565	Hypothetical protein, conserved
TK1566	Hypothetical protein, conserved
TK1571	Hypothetical protein, conserved
TK1575	Hypothetical membrane protein, conserved, containing TrkA-C domain
TK1576	Hypothetical membrane protein, conserved
TK1577	Hypothetical membrane protein, conserved
TK1578	Hypothetical membrane protein, conserved
TK1580	Hypothetical protein, conserved, UPF0153 family
TK1581	Hypothetical protein, conserved, UPF0113 family
TK1586	Hypothetical membrane protein, conserved
TK1608	Hypothetical protein, conserved, DUF257 family
TK1609	Hypothetical protein, conserved, DUF257 family
TK1610	Hypothetical protein, conserved
TK1617	Hypothetical protein, conserved
TK1619	Hypothetical protein, conserved, DUF1288 family
TK1626	Hypothetical protein, conserved, containing CBS domains
TK1629	Hypothetical protein, conserved
TK1630	Hypothetical protein, conserved, containing ZPR1 zinc-finger domain
TK1631	Hypothetical protein, conserved
TK1641	Hypothetical protein, conserved
TK1642	Hypothetical membrane protein, conserved
TK1646	Hypothetical protein, conserved
TK1649	Hypothetical membrane protein, conserved, DUF20 family
TK1651	Hypothetical protein, conserved
TK1653	Hypothetical membrane protein, conserved
TK1657	Hypothetical protein, conserved
TK1658	Hypothetical protein, conserved
TK1660	Hypothetical protein, conserved
TK1661	Hypothetical membrane protein, conserved
TK1662	Hypothetical protein, conserved, internal deletion
TK1663	Hypothetical protein, conserved, insertion
TK1664	Hypothetical protein, conserved, insertion
TK1665	Hypothetical protein, conserved
TK1666	Hypothetical protein, conserved
TK1667	Hypothetical membrane protein, conserved, containing DUF361 domain
TK1668	Hypothetical protein, conserved
TK1670	Hypothetical protein, conserved
TK1671	Hypothetical protein, conserved, radical SAM superfamily
TK1679	Hypothetical protein, conserved
TK1683	Hypothetical protein, conserved
TK1686	Hypothetical protein, conserved, DUF137 family
TK1690	Hypothetical membrane protein, conserved
TK1691	Hypothetical protein, conserved, DUF43 family
TK1693	Hypothetical protein, conserved, containing DUF59 domain
TK1697	Hypothetical protein, conserved, DUF359 family
TK1701	Hypothetical protein, conserved
TK1702	Hypothetical protein, conserved, DUF1102 family
TK1704	Hypothetical protein, conserved
TK1705	Hypothetical protein, conserved
TK1706	Hypothetical protein, conserved
TK1710	Hypothetical protein, conserved, DUF86 family
TK1725	Hypothetical membrane protein, conserved
TK1726	Hypothetical protein, conserved, flame shift
TK1727	Hypothetical protein, conserved, flame shift
TK1728	Hypothetical membrane protein, conserved
TK1729	Hypothetical membrane protein, conserved
TK1735	Hypothetical protein, conserved
TK1740	Hypothetical membrane protein, conserved
TK1743	Hypothetical protein, conserved
TK1744	Hypothetical protein, conserved
TK1746	Hypothetical protein, conserved
TK1747	Hypothetical protein, conserved, DUF84 family

TK1750	Hypothetical protein, conserved
TK1752	Hypothetical protein, conserved, DUF217 family
TK1753	Hypothetical membrane protein, conserved
TK1762	Hypothetical protein, conserved
TK1766	Hypothetical protein, conserved, radical SAM superfamily
TK1776	Hypothetical protein, conserved, UPF0146 family
TK1780	Hypothetical protein, conserved
TK1786	Hypothetical protein, conserved
TK1787	Hypothetical membrane protein, conserved, DUF112 family
TK1788	Hypothetical protein, conserved
TK1793	Hypothetical membrane protein, conserved
TK1794	Hypothetical membrane protein, conserved
TK1795	Hypothetical protein, conserved, DUF61 family
TK1799	Hypothetical membrane protein, conserved
TK1807	Hypothetical protein, conserved, radical SAM superfamily
TK1808	Hypothetical membrane protein, conserved
TK1812	Hypothetical membrane protein, conserved, DUF131 family
TK1816	Hypothetical protein, conserved, flame shift
TK1818	Hypothetical protein, conserved
TK1823	Hypothetical protein, conserved
TK1824	Hypothetical protein, conserved
TK1825	Hypothetical membrane protein, conserved
TK1832	Hypothetical membrane protein, conserved
TK1833	Hypothetical protein, conserved, containing DUF460 family
TK1837	Hypothetical protein, conserved, DUF1530 family
TK1839	Hypothetical protein, conserved
TK1844	Hypothetical membrane protein, conserved
TK1845	Hypothetical membrane protein, conserved, containing DUF58 domain
TK1847	Hypothetical membrane protein, conserved
TK1848	Hypothetical membrane protein, conserved
TK1849	Hypothetical protein, conserved
TK1851	Hypothetical membrane protein, conserved
TK1852	Hypothetical membrane protein, conserved
TK1854	Hypothetical protein, conserved
TK1855	Hypothetical protein, conserved, DUF515 family
TK1856	Hypothetical protein, conserved
TK1871	Hypothetical protein, conserved
TK1873	Hypothetical protein, conserved
TK1875	Hypothetical protein, conserved, DUF104 family
TK1882	Hypothetical protein, conserved, DUF211 family
TK1888	Hypothetical membrane protein, conserved
TK1892	Hypothetical protein, conserved, DUF553 family fused to N-terminal membrane-bound domain
TK1896	Hypothetical protein, conserved, DUF75 family
TK1897	Hypothetical protein, conserved, DUF473 family
TK1898	Hypothetical protein, conserved, DUF91 family
TK1904	Hypothetical protein, conserved
TK1905	Hypothetical protein, conserved
TK1907	Hypothetical protein, conserved, DUF207 family
TK1911	Hypothetical protein, conserved
TK1920	Hypothetical protein, conserved
TK1921	Hypothetical membrane protein, conserved, flame shift
TK1922	Hypothetical membrane protein, conserved, flame shift
TK1923	Hypothetical membrane protein, conserved
TK1925	Hypothetical membrane protein, conserved
TK1926	Hypothetical protein, conserved, DUF74 family
TK1927	Hypothetical membrane protein, conserved
TK1929	Hypothetical protein, conserved
TK1931	Hypothetical protein, conserved
TK1934	Hypothetical protein, conserved
TK1937	Hypothetical membrane protein, conserved
TK1939	Hypothetical protein, conserved
TK1941	Hypothetical protein, conserved, DUF432 family
TK1942	Hypothetical protein, conserved
TK1943	Hypothetical protein, conserved, containing DUF434 domain
TK1953	Hypothetical protein, conserved
TK1956	Hypothetical protein, conserved, containing ATP/GTP-binding site motif A
TK1958	Hypothetical protein, conserved
TK1972	Hypothetical membrane protein, conserved, containing TPR-repeat domains
TK1975	Hypothetical protein, conserved
TK1989	Hypothetical protein, conserved (C-terminus)
TK1991	Hypothetical protein, conserved
TK1998	Hypothetical protein, conserved
TK2006	Hypothetical protein, conserved
TK2014	Hypothetical membrane protein, conserved, DUF81 family
TK2022	Hypothetical membrane protein, conserved
TK2023	Hypothetical protein, conserved
TK2025	Hypothetical protein, conserved
TK2030	Hypothetical protein, conserved
TK2033	Hypothetical protein, conserved, DUF99 family
TK2038	Hypothetical protein, conserved, DUF531 family
TK2039	Hypothetical protein, conserved, containing TPR-repeat domain
TK2041	Hypothetical protein, conserved
TK2043	Hypothetical protein, conserved, DUF257 family

TK2044 Hypothetical protein, conserved, DUF257 family
 TK2047 Hypothetical membrane protein, conserved, DUF112 family
 TK2050 Hypothetical membrane protein, conserved
 TK2051 Hypothetical protein, conserved
 TK2063 Hypothetical protein, conserved, cupin superfamily
 TK2068 Hypothetical protein, conserved
 TK2102 Hypothetical membrane protein, conserved, DUF1393 family
 TK2103 Hypothetical protein, conserved
 TK2105 Hypothetical protein, conserved
 TK2108 Hypothetical membrane protein, conserved
 TK2112 Hypothetical protein, conserved, DUF355 family
 TK2113 Hypothetical protein, conserved
 TK2114 Hypothetical protein, conserved
 TK2119 Hypothetical membrane protein, conserved, DUF46 family
 TK2120 Hypothetical protein, conserved, containing DUF1511 family
 TK2121 Hypothetical protein, conserved
 TK2123 Hypothetical membrane protein, conserved, UPF0104 family
 TK2125 Hypothetical membrane protein, conserved, containing DUF835 family
 TK2131 Hypothetical protein, conserved, UPF0147 family
 TK2133 Hypothetical protein, conserved
 TK2136 Hypothetical protein, conserved
 TK2139 Hypothetical membrane protein, conserved
 TK2144 Hypothetical protein, conserved
 TK2145 Hypothetical protein, conserved, radical SAM superfamily
 TK2146 Hypothetical protein, conserved
 TK2148 Hypothetical protein, conserved
 TK2152 Hypothetical protein, conserved, DUF431 family
 TK2153 Hypothetical protein, conserved
 TK2154 Hypothetical protein, conserved, UPF0175 family
 TK2157 Hypothetical protein, conserved
 TK2160 Hypothetical protein, conserved, radical SAM superfamily
 TK2162 Hypothetical membrane protein, conserved
 TK2165 Hypothetical protein, conserved
 TK2171 Hypothetical protein, conserved, DUF257 family
 TK2173 Hypothetical protein, conserved
 TK2179 Hypothetical protein, conserved, BtpA family
 TK2180 Hypothetical protein, conserved
 TK2183 Hypothetical protein, conserved
 TK2184 Hypothetical protein, conserved
 TK2187 Hypothetical membrane protein, conserved
 TK2188 Hypothetical membrane protein, conserved
 TK2191 Hypothetical protein, conserved
 TK2193 Hypothetical protein, conserved
 TK2194 Hypothetical membrane protein, conserved
 TK2198 Hypothetical protein, conserved, UPF0047 family
 TK2200 Hypothetical protein, conserved
 TK2203 Hypothetical protein, conserved
 TK2204 Hypothetical protein, conserved
 TK2206 Hypothetical protein, conserved
 TK2216 Hypothetical membrane protein, conserved
 TK2224 Hypothetical membrane protein, conserved, containing DUF835 domain
 TK2226 Hypothetical protein, conserved
 TK2233 Hypothetical protein, conserved, DUF437 family
 TK2234 Hypothetical membrane protein, conserved
 TK2236 Hypothetical protein, conserved
 TK2237 Hypothetical protein, conserved, DUF366 family
 TK2238 Hypothetical membrane protein, conserved
 TK2243 Hypothetical protein, conserved, DUF1464 family
 TK2249 Hypothetical protein, conserved, containing TPR-repeat domain, N-truncation
 TK2256 Hypothetical membrane protein, conserved
 TK2267 Hypothetical membrane protein, conserved, UPF0016 family
 TK2269 Hypothetical protein, conserved, DUF509 family
 TK2270 Hypothetical protein, conserved
 TK2277 Hypothetical protein, conserved
 TK2282 Hypothetical membrane protein, conserved
 TK2283 Hypothetical protein, conserved, DUF498 family
 TK2293 Hypothetical protein, conserved, DUF371 family
 TK2294 Hypothetical protein, conserved, UPF0128 family
 TK2296 Hypothetical protein, conserved, radical SAM superfamily
 TK2297 Hypothetical protein, conserved, containing TPR-repeat domains

Hypothetical proteins

TK0010 Hypothetical protein
 TK0057 Hypothetical protein
 TK0118 Hypothetical protein
 TK0124 Hypothetical protein
 TK0127 Hypothetical protein
 TK0138 Hypothetical protein
 TK0162 Hypothetical membrane protein
 TK0165 Hypothetical protein
 TK0166 Hypothetical protein
 TK0209 Hypothetical protein
 TK0220 Hypothetical membrane protein
 TK0229 Hypothetical protein

TK0236	Hypothetical protein
TK0237	Hypothetical membrane protein
TK0294	Hypothetical membrane protein
TK0300	Hypothetical membrane protein
TK0301	Hypothetical membrane protein
TK0321	Hypothetical protein
TK0344	Hypothetical protein
TK0353	Hypothetical protein
TK0362	Hypothetical protein
TK0369	Hypothetical membrane protein
TK0371	Hypothetical protein
TK0372	Hypothetical protein
TK0426	Hypothetical protein
TK0427	Hypothetical protein
TK0437	Hypothetical protein
TK0438	Hypothetical protein
TK0443	Hypothetical membrane protein
TK0496	Hypothetical membrane protein
TK0516	Hypothetical protein
TK0520	Hypothetical protein, containing leucine zipper motif
TK0530	Hypothetical protein
TK0531	Hypothetical protein
TK0532	Hypothetical protein
TK0543	Hypothetical protein
TK0552	Hypothetical protein
TK0555	Hypothetical protein
TK0564	Hypothetical protein
TK0647	Hypothetical protein
TK0662	Hypothetical protein
TK0680	Hypothetical membrane protein
TK0681	Hypothetical protein
TK0709	Hypothetical protein
TK0753	Hypothetical membrane protein
TK0766	Hypothetical membrane protein
TK0780	Hypothetical protein
TK0782	Hypothetical protein
TK0785	Hypothetical protein
TK0792	Hypothetical protein
TK0818	Hypothetical protein
TK0820	Hypothetical protein
TK0823	Hypothetical membrane protein
TK0847	Hypothetical protein, containing leucine zipper motif
TK0848	Hypothetical protein
TK0860	Hypothetical protein
TK0869	Hypothetical protein
TK0905	Hypothetical membrane protein
TK0912	Hypothetical membrane protein, containing leucine zipper motif
TK0913	Hypothetical protein
TK0919	Hypothetical protein
TK0920	Hypothetical protein
TK0923	Hypothetical protein
TK0926	Hypothetical protein
TK0936	Hypothetical protein
TK0938	Hypothetical protein, containing ATP/GTP-binding site motif A
TK0980	Hypothetical membrane protein
TK0982	Hypothetical membrane protein
TK0983	Hypothetical protein
TK0985	Hypothetical protein
TK0988	Hypothetical protein
TK1000	Hypothetical membrane protein
TK1024	Hypothetical membrane protein
TK1051	Hypothetical protein
TK1052	Hypothetical protein
TK1070	Hypothetical protein
TK1075	Hypothetical protein
TK1089	Hypothetical protein
TK1117	Hypothetical protein
TK1132	Hypothetical membrane protein
TK1133	Hypothetical protein
TK1134	Hypothetical membrane protein
TK1154	Hypothetical protein
TK1156	Hypothetical protein
TK1159	Hypothetical protein
TK1160	Hypothetical membrane protein
TK1200	Hypothetical membrane protein
TK1229	Hypothetical protein
TK1244	Hypothetical protein
TK1265	Hypothetical membrane protein
TK1271	Hypothetical membrane protein
TK1277	Hypothetical membrane protein
TK1279	Hypothetical protein
TK1306	Hypothetical membrane protein
TK1308	Hypothetical protein

TK1327	Hypothetical membrane protein
TK1341	Hypothetical membrane protein
TK1381	Hypothetical protein
TK1384	Hypothetical protein
TK1389	Hypothetical protein
TK1394	Hypothetical protein
TK1409	Hypothetical membrane protein
TK1430	Hypothetical protein
TK1437	Hypothetical membrane protein
TK1441	Hypothetical protein
TK1462	Hypothetical membrane protein
TK1485	Hypothetical protein
TK1490	Hypothetical protein
TK1564	Hypothetical protein
TK1570	Hypothetical protein
TK1582	Hypothetical membrane protein
TK1583	Hypothetical protein
TK1584	Hypothetical membrane protein
TK1585	Hypothetical protein
TK1587	Hypothetical membrane protein
TK1616	Hypothetical protein
TK1628	Hypothetical protein
TK1632	Hypothetical membrane protein
TK1638	Hypothetical membrane protein
TK1645	Hypothetical protein
TK1647	Hypothetical protein
TK1648	Hypothetical protein
TK1672	Hypothetical protein
TK1678	Hypothetical membrane protein
TK1680	Hypothetical protein
TK1682	Hypothetical protein
TK1707	Hypothetical protein
TK1724	Hypothetical protein, containing ATP/GTP-binding site motif A
TK1730	Hypothetical membrane protein
TK1739	Hypothetical protein
TK1742	Hypothetical protein
TK1749	Hypothetical protein
TK1783	Hypothetical membrane protein
TK1834	Hypothetical protein
TK1838	Hypothetical membrane protein
TK1862	Hypothetical protein
TK1879	Hypothetical protein
TK1885	Hypothetical protein
TK1887	Hypothetical membrane protein
TK1889	Hypothetical membrane protein
TK1894	Hypothetical membrane protein
TK1906	Hypothetical protein
TK1918	Hypothetical membrane protein
TK1919	Hypothetical membrane protein
TK1930	Hypothetical protein
TK1947	Hypothetical membrane protein
TK1948	Hypothetical membrane protein
TK1949	Hypothetical protein
TK1950	Hypothetical protein
TK1969	Hypothetical membrane protein
TK1985	Hypothetical membrane protein
TK1986	Hypothetical protein
TK1987	Hypothetical protein
TK1988	Hypothetical protein, containing leucine zipper motif
TK1996	Hypothetical protein
TK2003	Hypothetical protein
TK2013	Hypothetical protein
TK2046	Hypothetical membrane protein
TK2048	Hypothetical protein
TK2056	Hypothetical membrane protein
TK2059	Hypothetical protein
TK2116	Hypothetical protein
TK2174	Hypothetical protein
TK2175	Hypothetical protein
TK2176	Hypothetical protein
TK2177	Hypothetical membrane protein
TK2178	Hypothetical protein, containing ATP/GTP-binding site motif A
TK2182	Hypothetical protein
TK2189	Hypothetical membrane protein
TK2199	Hypothetical protein
TK2201	Hypothetical membrane protein
TK2221	Hypothetical protein
TK2230	Hypothetical protein
TK2265	Hypothetical membrane protein
TK2295	Hypothetical membrane protein
TK2305	Hypothetical protein, containing leucine zipper motif
