

ORF	Name	Fold
ZMO1947	translational inhibitor protein	1441.68
ZMO1944	transcriptional regulatory protein	1184.91
ZMO1949	NAD(P)H quinone oxidoreductase, putative	1162.87
ZMO1942	type IV secretory pathway, VirD2 components (relaxase)	937.31
ZMO1934	type I restriction-modification enzyme, M subunit	690.59
ZMO1948	conserved hypothetical protein	448.83
ZMO1939	ATPases involved in chromosome partitioning	300.45
ZMO1931	conserved hypothetical protein	286.93
ZMO1937	conserved hypothetical protein	225.72
ZMO1946	oxidoreductase (short-chain alcohol dehydrogenases)	218.82
ZMO1941	type IV secretory pathway, conjugal transfer TraF transmembrane protein	200.54
ZMO1940	conserved hypothetical protein	188.12
ZMO1943	type IV secretory pathway, VirD2 components (relaxase)	169.62
ZMO1861	dioxygenases related to 2-nitropropane dioxygenase	155.61
ZMO0242	ATP synthase, epsilon subunit	144.31
ZMO1945	predicted epimerase, PhzC/PhzF homolog	123.85
ZMO0652	flagellar protein FliS, probable	115.92
ZMO1932	No hit	107.05
ZMO0732	DNA-directed RNA polymerase, beta' subunit/160 kD subunit	77.00
ZMO1300	capsular polysaccharide biosynthesis protein, bcbE	72.27
ZMO1950	aspartate/tyrosine/aromatic aminotransferase	46.47
ZMO1936	conserved hypothetical protein	40.87
ZMO0611	flagellar biosynthesis, hook protein	35.78
ZMO1863	putative phosphatase	23.32
ZMO1930	phage-related integrase	22.20
ZMO0171	TonB-dependent receptor	21.55
ZMO1194	nucleotide-binding protein involved in DNA uptake, DNA processing chain A	21.34
ZMO1933	type I restriction-modification enzyme, S subunit	20.29
ZMO1826	nitrogenase reductase iron-molibdenum cofactor synthesis protein, NifE	15.77
ZMO0964	outer membrane multidrug resistance lipoprotein, probable	15.42
ZMO1758	DNA uptake lipoprotein	14.46
ZMO1261	ABC-type nitrate/sulfonate/bicarbonate transport systems, periplasmic comp	13.11
ZMO1860	similar to nodulin 21	13.10
ZMO1462	hypothetical protein	13.03
ZMO0051	No hit	12.45
ZMO1095	pyrophosphatase, predicted	11.75
ZMO0878	protein-glutamate methyltransferase (EC 3.1.1.61) cheB	10.91
ZMO0091	No hit	10.59
ZMO1951	demethylmenaquinone methyltransferase	10.32
ZMO1953	No hit	9.95
ZMO1952	3-methyl-2-oxobutanoate hydroxymethyltransferase; PanB, probable	9.70
ZMO0424	ABC transporter, ATP-binding protein	9.49
ZMO0909	glycosyltransferase	9.42
ZMO1468	No hit	9.07
ZMO1856	transport protein, putative	8.12
ZMO1721	lactoylglutathione lyase and related lyases	7.97
ZMO0692	type IIA topoisomerase (DNA gyrase/topo II, topoisomerase IV), A subunit	7.90
ZMO0916	No hit	7.72
ZMO0050	transcriptional regulator, LysR family	7.66

ZMO1097	thiol-disulfide isomerase and thioredoxins	7.27
ZMO1600	homoserine kinase type II	7.02
ZMO1287	LPS glycosyltransferase; Lpg	6.94
ZMO0619	flagellar FlgA, polar	6.76
ZMO0727	ribosomal protein L10	6.73
ZMO0677	3-isopropylmalate dehydrogenase (beta-IPM dehydrogenase) (IMDH)	6.72
ZMO0052	cyanate permease (MFS)	6.71
ZMO0329	archaeal fructose-1,6-bisphosphatase and related enzymes of inositol monophosphatase	6.37
ZMO0997	2-dehydro-3-deoxy-phosphogluconate aldolase (EC 4.1.2.14) -	6.23
ZMO1518	archaeal fructose-1,6-bisphosphatase/inositol monophosphatase	6.18
ZMO1034	hypothetical protein	6.12
ZMO0275	ABC-type (unclassified) transport system, ATPase component	6.05
ZMO0049	No hit	5.82
ZMO0784	glutamyl-tRNA(gln) amidotransferase subunit C	5.71
ZMO0548	two-component signal transduction histidine kinase	5.68
ZMO0469	No hit	5.66
ZMO1406	hydrolases or acyltransferases	5.56
ZMO0889	aldose 1-epimerase precursor (Mutarotase)	5.56
ZMO1476	No hit	5.51
ZMO0883	ribosomal protein S9	5.40
ZMO0486	conserved hypothetical protein	5.37
ZMO0965	aromatic efflux pump membrane protein, putative	5.37
ZMO0598	integrase/recombinase XerD	5.36
ZMO0367	glucose-6-phosphate 1-dehydrogenase (G6PD)	5.28
ZMO0305	hypothetical protein	5.25
ZMO1461	conserved hypothetical protein	5.23
ZMO1701	outer membrane lipoprotein-sorting protein	5.22
ZMO1479	electron transfer flavoprotein alpha-subunit, (ETFLS)	5.13
ZMO1033	cyclopropane fatty acid synthase and related methyltransferases	5.07
ZMO1705	thioredoxin	5.05
ZMO1859	regulator of pathogenicity factors, carbohydrate-selective porin	5.01
ZMO1480	electron transfer flavoprotein beta-subunit	4.93
ZMO0350	conserved hypothetical protein	4.92
ZMO0571	ABC-type anion transport system, duplicated permease	4.90
ZMO1342	No hit	4.89
ZMO0989	heat shock protein, molecular chaperone	4.86
ZMO0124	ATPase, predicted	4.78
ZMO0045	No hit	4.69
ZMO0312	N-acyl-L-amino acid amidohydrolase	4.62
ZMO1105	two-component sensor signal transduction histidine kinase	4.59
ZMO0289	No hit	4.59
ZMO0837	cell division protein FtsZ	4.54
ZMO0533	ribosomal protein S5	4.53
ZMO0715	aspartyl-tRNA synthetase	4.50
ZMO0180	enzyme involved in the deoxyxylulose pathway of isoprenoid biosynthesis	4.48
ZMO1490	outer membrane protein, putative	4.48
ZMO0561	outer membrane receptor proteins, mostly Fe transport, TonB-dependent receptor	4.46
ZMO1954	type IV secretory pathway, VirB10, conjugal transfer TrbL transmembrane protein	4.43
ZMO0524	ribosomal protein L29	4.42
ZMO1083	glycosyltransferases involved in cell wall biogenesis, cellulose synthase 1	4.37

ZMO1857	transcriptional regulator, probable	4.32
ZMO0792	dihydroorotase and related cyclic amidohydrolases	4.31
ZMO0272	No hit	4.20
ZMO1263	ABC-type nitrate/sulfonate/bicarbonate transport system, ATPase componer	4.18
ZMO0280	No hit	4.18
ZMO0913	branched-chain amino acid aminotransferase	4.13
ZMO1324	Serine kinase of the HPr protein, regulates carbohydrate metabolism	4.03
ZMO1706	No hit	4.01
ZMO0684	conserved hypothetical protein	4.00
ZMO0165	periplasmic component of the Tol biopolymer transport system	3.96
ZMO0685	conserved hypothetical protein	3.96
ZMO0225	homoserine acetyltransferase	3.89
ZMO1498	diadenosine tetraphosphate (Ap4A) hydrolase and other HIT	3.87
ZMO1405	two component response regulator	3.86
ZMO0286	outer membrane protein	3.85
ZMO1333	No hit	3.83
ZMO1556	gamma-glutamylcysteine synthetase	3.82
ZMO0217	No hit	3.79
ZMO1335	flavodoxin WrbA, multimeric	3.79
ZMO0299	phosphoribosylamine--glycine ligase (GARS) (glycinamide ribonucleotide synth	3.72
ZMO1220	Sec-independent protein secretion pathway component TatA/E	3.72
ZMO0638	No hit	3.69
ZMO1955	malic enzyme, NAD-dependent	3.62
ZMO1299	capsular polysaccharide biosynthesis protein, bcbG	3.60
ZMO0721	small protein B	3.59
ZMO1392	hypothetical protein	3.58
ZMO0156	No hit	3.52
ZMO1978	chromosome partitioning protein, ParB	3.46
ZMO1158	aspartate racemase	3.45
ZMO1473	hypothetical protein	3.40
ZMO0341	oxidoreductase, short chain dehydrogenase/reductase family	3.39
ZMO1286	sorbitol dehydrogenase small subunit	3.38
ZMO0719	transglycosylase and related regulatory proteins	3.38
ZMO1466	oxidoreductase	3.35
ZMO0325	hypothetical protein	3.33
ZMO1573	predicted iron-dependent peroxidase	3.32
ZMO1003	hydroxymethylpyrimidine/phosphomethylpyrimidine kinase	3.30
ZMO0119	Na ⁺ /H ⁺ antiporter	3.29
ZMO0043	nucleotide-binding protein implicated in inhibition of septum formation	3.28
ZMO0748	cysteine synthase	3.28
ZMO0764	hydrolases or acyltransferases, predicted	3.23
ZMO1924	collagenase and related proteases	3.22
ZMO1968	No hit	3.15
ZMO1237	D-lactate dehydrogenase	3.09
ZMO0777	metallo-beta-lactamase family protein	3.09
ZMO0663	DNA repair proteins, RadC	3.09
ZMO0409	ornithine carbamoyltransferase	3.09
ZMO0073	hemolysins and related proteins containing CBS domains	3.08
ZMO1013	nucleotide-binding protein implicated in inhibition of septum formation (maf)	3.05
ZMO0520	ribosomal protein L2	3.03

ZMO0695	conserved hypothetical protein	3.02
ZMO1217	No hit	3.01
ZMO1650	beta-lactamase class C, esterase	3.01
ZMO1004	ribonuclease HII	2.99
ZMO1762	endonuclease distantly related to archaeal Holliday junction resolvase, predict	2.98
ZMO1315	hypothetical protein	2.97
ZMO1986	outer membrane receptor proteins, mostly Fe transport, TonB-dependent	2.96
ZMO1338	efflux protein, LysE family	2.96
ZMO1347	threonine aldolase	2.94
ZMO0247	heat shock protein, ATP-dependent protease HslVU (ClpYQ), ATPase subunit	2.94
ZMO0449	conserved hypothetical protein	2.93
ZMO1088	rare lipoprotein A, putative	2.91
ZMO0104	No hit	2.91
ZMO1394	permeases, predicted	2.90
ZMO0090	dehydrogenases with different specificities (related to short-chain alcohol def	2.90
ZMO1006	dihydropteroate synthase and related enzymes	2.89
ZMO1667	periplasmic protease	2.87
ZMO0757	conserved hypothetical protein	2.87
ZMO0109	No hit	2.87
ZMO0769	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase	2.87
ZMO1202	transcriptional regulator, predicted	2.87
ZMO1442	hypothetical protein	2.86
ZMO0694	No hit	2.85
ZMO0714	ribonuclease D	2.84
ZMO1921	Primosomal protein N' (replication factor Y) - superfamily II helicase	2.83
ZMO1717	conserved hypothetical protein	2.83
ZMO1534	No hit	2.82
ZMO1458	No hit	2.81
ZMO0682	conserved hypothetical protein	2.81
ZMO1463	TonB-dependent receptor, probable	2.81
ZMO0514	ribosomal protein S7	2.81
ZMO1111	ABC transporter (permease)	2.80
ZMO0046	No hit	2.79
ZMO1374	hypothetical protein	2.78
ZMO0791	aspartate carbamoyltransferase, catalytic chain	2.76
ZMO1459	transporter, putative	2.76
ZMO0498	N-acetylglucosamine-1-phosphate uridyltransferase	2.75
ZMO0048	No hit	2.75
ZMO0976	oxidoreductase, putative	2.74
ZMO0923	N-acetylglutamate synthase (N-acetylornithine aminotransferase)	2.73
ZMO1918	adenosylmethionine-8-amino-7-oxononanoate aminotransferase	2.72
ZMO1134	No hit	2.71
ZMO1890	Zn-dependent peptidases, predicted	2.68
ZMO0720	dihydrodipicolinate synthase/N-acetylneuraminase lyase	2.67
ZMO1303	pyrroline-5-carboxylate reductase	2.67
ZMO1260	TonB-dependent receptor, outer membrane receptor proteins, mostly Fe tran	2.66
ZMO0803	FOG: TPR repeat	2.66
ZMO1690	heat shock protein, DnaJ-class molecular chaperone	2.66
ZMO0236	ATPases involved in chromosome partitioning	2.66
ZMO1935	conserved hypothetical protein	2.65

ZMO0824	No hit	2.65
ZMO0020	hypothetical protein	2.64
ZMO1099	helicase, inactivated superfamily I	2.63
ZMO0749	RNA polymerase sigma-32 factor	2.63
ZMO0287	transport transmembrane protein, putative	2.60
ZMO0131	conserved hypothetical protein	2.60
ZMO0488	GTP binding protein, probable	2.59
ZMO0691	NAD(FAD)-utilizing enzyme possibly involved in translation	2.57
ZMO1725	conserved hypothetical protein	2.57
ZMO0197	membrane carboxypeptidase/penicillin-binding protein	2.57
ZMO1138	tRNA delta(2)-isopentenylpyrophosphate transferase (IPP transferase)	2.54
ZMO1574	transcriptional regulatory protein	2.53
ZMO1876	hypothetical protein	2.53
ZMO1615	transcription elongation factor greA	2.52
ZMO0123	No hit	2.51
ZMO0256	FAD/FMN-containing dehydrogenases (lactate dehydrogenase)	2.48
ZMO0912	hypothetical protein	2.48
ZMO0420	protein tyrC [includes: Cyclohexadienyl dehydrogenase (Arogenate dehydroge	2.47
ZMO1250	No hit	2.47
ZMO1417	DNA and RNA helicases superfamily II	2.46
ZMO1164	phosphate regulon response regulator PhoB	2.45
ZMO1922	capsule polysaccharide export protein	2.44
ZMO1258	ABC-type transport system involved in cytochrome c, heme exporter	2.41
ZMO0047	conserved hypothetical protein, transporter	2.40
ZMO0549	polyribonucleotide nucleotidyltransferase (polynucleotide phosphorylase)	2.40
ZMO1912	GTPase, probable translation factor	2.39
ZMO0079	chemotaxis protein CheYI	2.38
ZMO1052	phosphoribosylaminoimidazole-succinocarboxamide synthase	2.37
ZMO0128	TonB-dependent receptor, probable	2.36
ZMO1679	Rossmann fold nucleotide-binding protein, predicted	2.35
ZMO1133	carbonic anhydrase	2.35
ZMO0926	ABC transporter, substrate-binding protein, putative	2.34
ZMO1770	argininosuccinate lyase (arginosuccinase) (ASAL)	2.33
ZMO1928	heat shock protein groEs, 10 kDa chaperonin, HSP10	2.31
ZMO0583	acetyl-CoA carboxylase beta subunit	2.28
ZMO0463	No hit	2.27
ZMO0801	membrane-fusion protein	2.27
ZMO0779	membrane-fusion protein	2.27
ZMO0859	NifS protein homolog (spl1)	2.26
ZMO1432	hypothetical membrane protein	2.26
ZMO0269	No hit	2.25
ZMO1532	phosphoribosylformylglycinamide (FGAM) synthase, PurL	2.24
ZMO1605	pyruvate dehydrogenase E1 component, beta subunit	2.24
ZMO0113	para-aminobenzoate synthase component I	2.23
ZMO1089	D-alanyl-D-alanine carboxypeptidase, penicillin binding protein	2.22

ZMO0666	conserved hypothetical protein	2.22
ZMO0669	ATP synthase B chain	2.21
ZMO0559	ATPase (AAA+ superfamily), predicted	2.21
ZMO1182	4-diphosphocytidyl-2-C-methyl-D-erythritol kinase (CMK)	2.20
ZMO0982	permease protein of oligopeptide ABC transporter	2.20
ZMO1113	NADH dehydrogenase	2.19
ZMO1283	transcriptional regulator, LacI family	2.19
ZMO0126	No hit	2.19
ZMO0753	glutaredoxin 3	2.17
ZMO0427	selenocysteine lyase	2.17
ZMO0379	gene 2 protein, terminase [Enterobacteria phage Sf6]	2.16
ZMO0059	glycerate kinase	2.16
ZMO0148	No hit	2.15
ZMO0136	FOG: TPR repeat, SEL1 subfamily	2.15
ZMO1693	chorismate synthase	2.14
ZMO0776	phospholipid N-methyltransferase	2.12
ZMO0182	S-adenosylhomocysteine hydrolase	2.12
ZMO1341	metalloprotease	2.12
ZMO0087	No hit	2.12
ZMO0512	dihydrolipoyl dehydrogenase (E3 component of pyruvate and 2-oxoglutarate	2.12
ZMO0105	3-isopropylmalate dehydratase large subunit	2.11
ZMO0852	S-adenosylmethionine:tRNA-ribosyltransferase	2.11
ZMO1435	leucyl-tRNA synthetase	2.11
ZMO0011	hypothetical protein	2.10
ZMO1309	leucyl aminopeptidase	2.10
ZMO1723	conserved hypothetical protein	2.09
ZMO1639	uncharacterized membrane protein, putative virulence factor	2.09
ZMO1960	No hit	2.09
ZMO0127	nuclease S1	2.09
ZMO0279	cold shock proteins	2.08
ZMO0630	No hit	2.07
ZMO0778	cation/multidrug efflux pump	2.06
ZMO0146	No hit	2.06
ZMO0846	glutathione-regulated potassium-efflux system protein kefB	2.05
ZMO0918	catalase	2.05
ZMO0718	transcription elongation factor	2.05
ZMO1169	hypothetical protein	2.04
ZMO1845	alkylphosphonate uptake protein	2.03
ZMO0134	FOG: TPR repeat, SEL1 subfamily	2.03
ZMO1555	No hit	2.02
ZMO1215	No hit	2.02
ZMO1784	hypothetical transmembrane protein	2.01
ZMO1238	No hit	2.01
ZMO0200	anthranilate phosphoribosyltransferase	2.01
ZMO0186	cysteinyl-tRNA synthetase	2.00
ZMO0081	chemotaxis response regulator protein-glutamate methyltransferase, CheB	2.00
ZMO1328	rRNA methylases	2.00
ZMO1401	nuclease, probable	2.00
ZMO0802	No hit	2.00
ZMO1251	No hit	2.00