

Supplementary Table 1

List of 62 proteins to construct the phylogenetic tree based on 18 whole genomes (Fig. 2).

Accession number	Putative function
YP_003431711.1	phenylalanyl-tRNA synthetase beta chain
YP_003431775.1	3-phosphoglycerate kinase
YP_003431873.1	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase
YP_003431886.1	pseudouridylate synthase
YP_003431889.1	signal recognition particle GTPase
YP_003431930.1	acetyl-CoA carboxylase alpha subunit
YP_003431961.1	valyl-tRNA synthetase
YP_003431972.1	GTP-binding protein
YP_003431987.1	inosine-5'-monophosphate dehydrogenase
YP_003432020.1	aspartyl-tRNA synthetase
YP_003432036.1	riboflavin synthase alpha chain
YP_003432147.1	histidyl-tRNA synthetase
YP_003432239.1	ribosomal protein S9
YP_003432240.1	ribosomal protein L13
YP_003432274.1	triosephosphate isomerase
YP_003432291.1	methylenetetrahydrofolate dehydrogenase
YP_003432353.1	uridylate kinase
YP_003432354.1	translation elongation factor Ts
YP_003432355.1	ribosomal protein S2
YP_003432373.1	ribosomal protein L14
YP_003432375.1	ribosomal protein L5
YP_003432377.1	ribosomal protein S8
YP_003432378.1	ribosomal protein L6
YP_003432380.1	ribosomal protein S5
YP_003432382.1	ribosomal protein L15
YP_003432383.1	preprotein translocase SecY subunit
YP_003432384.1	adenylate kinase
YP_003432388.1	ribosomal protein S13
YP_003432389.1	ribosomal protein S11
YP_003432390.1	ribosomal protein S4
YP_003432406.1	dimethyladenosine transferase

YP_003432408.1	methionyl-tRNA synthetase
YP_003432503.1	ribosomal protein S17
YP_003432506.1	ribosomal protein S3
YP_003432507.1	ribosomal protein L22
YP_003432508.1	ribosomal protein S19
YP_003432509.1	ribosomal protein L2
YP_003432512.1	ribosomal protein L3
YP_003432513.1	ribosomal protein S10
YP_003432518.1	DNA-directed RNA polymerase beta' subunit
YP_003432522.1	ribosomal protein L1
YP_003432523.1	ribosomal protein L11
YP_003432624.1	dephospho-CoA kinase
YP_003432637.1	enolase
YP_003432711.1	cysteinyl-tRNA synthetase
YP_003432747.1	leucyl-tRNA synthetase
YP_003432831.1	polyribonucleotide nucleotidyltransferase
YP_003432832.1	ribosomal protein S15
YP_003432924.1	translation initiation factor IF-2
YP_003432953.1	queuine tRNA-ribosyltransferase
YP_003432968.1	GMP synthase
YP_003433016.1	O-sialoglycoprotein endopeptidase
YP_003433062.1	signal recognition particle
YP_003433099.1	ribonuclease HII
YP_003433106.1	CTP synthetase
YP_003433243.1	seryl-tRNA synthetase
YP_003433320.1	thymidylate kinase
YP_003433334.1	phenylalanyl-tRNA synthetase alpha subunit
YP_003433441.1	undecaprenyl pyrophosphate synthetase
YP_003433497.1	alanyl-tRNA synthetase
YP_003433542.1	arginyl-tRNA synthetase
YP_003433549.1	cell cycle protein
