

Species	experimental verification	taxonomy					GOLD	locus tag	
		domain	phylum	class	order	family		hgcA	hgcB
Desulfovibrio desulfuricans ND132	(1)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	GI03061	DND132_1056	DND132_1057
Desulfovibrio aespoensis Aspo-2	(2)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	Gc01651	Daes_2662	Daes_2663
Desulfovibrio africanus str. Walvis Bay ATCC 19997	(3)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	GI03062	Daes_2662	Desaf_0115
Desulfovibrio africanus "Benghazi" DSM 2603	(1) (2)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	GI11412	H585DRAFT_02628	H585DRAFT_02630
Desulfovibrio oxycliniae DSM 11498		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	GI11435	B149DRAFT_02526	B149DRAFT_02527
Desulfovibrio africanus PCS		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	GI0038787	PCS_01240	PCS_01242
Desulfovibrio longus DSM 6739		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	GI11432	G452DRAFT_0876	G452DRAFT_0877
Desulfovibrio putealis DSM 16056		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	Ga0002043	G453DRAFT_01225	G453DRAFT_01226
Desulfovibrio inopinatus DSM 10711		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	GI11429	G451DRAFT_03295	G451DRAFT_03241
Desulfovibrio alkaltolerans DSM 16529		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	Ga0006689	BS30DRAFT_2871	BS30DRAFT_2872
Desulfovibrio bizertensis DSM 18034		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	Ga0006634	BR26DRAFT_00193	BR26DRAFT_00194
Desulfovibrio halophilus DSM 5663		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	Ga0006629	BR24DRAFT_1458	BR24DRAFT_1457
Desulfovibrio sp.		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae			
Desulfovibrio sp. X2	(1)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	Ga0038523	Ga0038523_01576	Ga0038523_01577
Desulfovibrio sp. L21-Syr-AB		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	Ga0003340	N911DRAFT_0641	N911DRAFT_0643
Desulfococcus vexinensis DSM 17965		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	GI11383	G495DRAFT_00268	G495DRAFT_00269
Desulfomicrobium baculatum X DSM 4028	(6)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfomicrobiaceae	Gc01026	DbaC_0376	DbaC_0375
Desulfomicrobium escambiense DSM 10707	(7)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfomicrobiaceae	GI11388	G394DRAFT_03349	G394DRAFT_03348
Desulfomicrobium apsheronum DSM 5918		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfomicrobiaceae	Ga0070595	Ga0070595_11780	Ga0070595_11779
Desulfobulbus propionicus 1pr3 DSM 2032	(4)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Gc01599	Despr_0439	Despr_0438
Desulfobulbus mediterraneus DSM 13871		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	GI11381	G494DRAFT_03180	G494DRAFT_03174
Desulfobulbus japonicus DSM 18378		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	GI11380	G493DRAFT_01620	G493DRAFT_01621
Desulfobulbus sp. Tol-SR Ga0063341		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Ga0063341	Ga0063341_1055117	Ga0063341_1055116
Desulfopila aestuarii DSM 18488		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Ga0008182	EJ45DRAFT_03511	
Desulfofustis glycolicus DSM 9705		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Ga0008216	EJ46DRAFT_03964	EJ46DRAFT_03963
Desulfococcus biacutus KMRAct5		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Ga0010313	DebiaDRAFT_00836	DebiaDRAFT_00837
Desulfococcus multivorans DSM 2059	(8)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Ga0006627	BS77DRAFT_03153	BS77DRAFT_03152
Desulfospira joergensenii DSM 10085		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	GI13787	F608DRAFT_3039	F608DRAFT_3040
Desulfotignum phosphitoxidans FIPS-3 DSM 13687		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Gp033577	Dpo_8c00130	Dpo_8c00140
Desulfotignum balticum DSM 7044		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	GI13788	K365DRAFT_3864	K365DRAFT_3863
uncultured Desulfobacterium sp.		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae		N47_A07900	N47_A07910
Desulfobacula sp. TS		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Ga0097800	Ga0097800_105834	
Desulfobacula phenolica DSM 3384		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Ga0066824	Ga0066824_104261	Ga0066824_104262
Desulfoluna spongiiphila AA1		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Ga0104423	Ga0104423_11458	Ga0104423_11459
Desulfobacterales bacterium SG8_35_2		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	unclassified	Ga0111149	Ga0111149_11159	Ga0111149_11158
Desulfonatronospira thiodismutans ASO3-1	(6)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfohalobiaceae	GI02999	Dthio_PD1043	Dthio_PD1042
Desulfonatronovibrio hydrogenovorans DSM 9292		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfohalobiaceae	GI11390	P771DRAFT_2608	P771DRAFT_2607
Desulfonatronum lacustre Z-7951 DSM 10312		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfonatronumaceae	GI03017	DeslaDRAFT_0127	DeslaDRAFT_0126
Desulfonatronum thioautotrophicum ASO4-1		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfonatronumaceae	Ga0052861	LZ09DRAFT_02014	LZ09DRAFT_02013
Desulfonatronum thiodismutans MLF-1		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfonatronumaceae	Ga0055127	Ga0055127_10927	Ga0055127_10928
Pelobacter selenigenens DSM 18267		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Desulfuromonadaceae	GI0051577	N909DRAFT_1967	N909DRAFT_1966
Candidatus Desulfuromonas soudanensis WTL		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Desulfuromonadaceae	Ga0069009	Ga0069009_112468	Ga0069009_112469
Desulfuromonas sp. WTL		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Desulfuromonadaceae	Ga0081808	Ga0081808_112486	Ga0081808_112487
Geobacter sulfurreducens PCA DSM 12127 ATCC 51573	(5)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Gc00166	GSU1440	GSU1441
Geobacter sulfurreducens DL-1 / KN400		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Gc01305	KN400_1466	KN400_1468
Geobacter sulfurreducens AM-1		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Ga0098194	Ga0098194_112254	Ga0098194_112253
Geobacter metallireducens GS-15	(5)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Gc00314	Gmet_1240	Gmet_1241
Geobacter metallireducens RCH3		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	GI06445	GeomeDRAFT_0749	GeomeDRAFT_0748
Geobacter sp. daltonii FRC-32	(6)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Gc00945	Geob_2483	Geob_2482
Geobacter sp. M18		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Gc01644	GM18_1031	GM18_1032
Geobacter sp. M21		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Gc01078	GM21_3091	GM21_3090
Geobacter uranilireducens Rf4		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Gc00560	Gura_0480	Gura_0481
Geobacter bemidiensis Bem DSM 16622	(6)	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Gc00849	Gbem_1183	Gbem_1184
Geobacter bremensis R1		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	GI22507	K419DRAFT_03561	K419DRAFT_03560
Geobacter soli GSS01		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Ga0077628	Ga0077628_111639	Ga0077628_111638
Geobacter pickeringii G13		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Ga0069501	Ga0069501_11991	Ga0069501_11992
Geobacter argillaceus ATCC BAA-1139		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Ga0052872	Ga0052872_02664	Ga0052872_02665
Geobacter sp. OR-1		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Ga0098289	Ga0098289_111104	Ga0098289_111105
Geopsychrobacter electrodiphilus DSM 16401		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	GI11526	D888DRAFT_1606	D888DRAFT_1605
Geoalkalibacter ferrihydriticus DSM 17813		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	Ga0056053	Ga0056053_00822	Ga0056053_00821
Syntrophorhabdus aromaticivorans UI		Bacteria	Proteobacteria	Deltaproteobacteria	Syntrophobacteriales	Syntrophorhabdaceae	GI05848	SynarDRAFT_0655	SynarDRAFT_0656
Desulfomonile tiedjei DCB-1 DSM 6799		Bacteria	Proteobacteria	Deltaproteobacteria	Syntrophobacteriales	Syntrophaceae	Gc02250	Desti_1022	Desti_1023
Syntrophus aciditrophicus SB	(6)	Bacteria	Proteobacteria	Deltaproteobacteria	Syntrophobacteriales	Syntrophaceae	Gc00341	SYN_00351	SYN_00352
Syntrophus gentianae DSM 8423		Bacteria	Proteobacteria	Deltaproteobacteria	Syntrophobacteriales	Syntrophaceae	Ga0074853	Ga0074853_12844	Ga0074853_12845

Syntrophus sp. G20		Bacteria	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophaceae	Ga0063310	Ga0063310_01440	
Smithella sp. F21		Bacteria	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophaceae	Ga0059255	Ga0059255_00473	Ga0059255_00474
Desulfacinum infernum DSM 9756		Bacteria	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	Ga0008181	EJ47DRAFT_02589	EJ47DRAFT_02590
Desulfacinum hydrothermale DSM 13146		Bacteria	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	Gi11367	EJ40DRAFT_00080	EJ40DRAFT_00079
Desulfocarbo indianensis SCBM		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfarculales	Desulfarculaceae	Ga0081924	Ga0081924_1005407	Ga0081924_1005406
Desulfarculus sp. SPR		Bacteria	Proteobacteria	Deltaproteobacteria	Desulfarculales	Desulfarculaceae	Ga0077793	Ga0077793_12923	Ga0077793_12924
Deltaproteobacteria bacterium SM23_61		Bacteria	Proteobacteria	Deltaproteobacteria	unclassified		Ga0111180	Ga0111180_101515	Ga0111180_101516
Deltaproteobacteria bacterium SG8_13		Bacteria	Proteobacteria	Deltaproteobacteria	unclassified		Ga0111147	Ga0111147_100511	Ga0111147_100510
Deltaproteobacteria bacterium JGI A06048-F13		Bacteria	Proteobacteria	Deltaproteobacteria	unclassified		GI0050527	Ga0009064_12311	Ga0009064_12310
Deltaproteobacteria bacterium JGI E06040-H20		Bacteria	Proteobacteria	Deltaproteobacteria	unclassified		Ga0009065	Ga0009065_1365	Ga0009065_1366
delta proteobacterium MLMS-1		Bacteria	Proteobacteria	Deltaproteobacteria	unclassified		GI01532	MidDRAFT_0620, MidDRAFT_2280	MidDRAFT_0621, MidDRAFT_2279
delta proteobacterium NaphS2		Bacteria	Proteobacteria	Deltaproteobacteria	unclassified		GI06365	NPH_5533	NPH_5534
Deferrisoma camini S3R1		Bacteria	Proteobacteria	Deltaproteobacteria	unclassified		GI14060	DefcaDRAFT_2106	DefcaDRAFT_2107
Clostridium tunisiense TJ DSM 15206		Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Ga0021146	C661DRAFT_03759	C661DRAFT_03760
Clostridium straminisolvens JCM 21531		Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	GI0069772	JCM21531_3779	JCM21531_3778
Clostridium cellobioparum ATCC 15832		Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	GI15295	T344DRAFT_03993	T344DRAFT_03994
Clostridium litorale W6 DSM 5388		Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Ga0023840	CLIT_00225	
Alkaliphilus peptidifermentans DSM 18978		Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Ga0056057	Ga0056057_04261	Ga0056057_04260
Clostridium xylanovorans DSM 12503		Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Ga0008217	EJ36DRAFT_04604	EJ36DRAFT_04603
Ruminococcaceae sp. Ne3		Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Ga0059398	NaEC3_01531	NaEC3_01532
Syntrophobotulus glycolicus FIGlyR DSM 8271		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	Gc01670	Sgly_2352	Sgly_2351
Dehalobacter restrictus DSM 9455		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI05571	Dehre_1982	Dehre_1981
Dehalobacter sp. CF		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI22845	DCF50_p1170	DCF50_p1169
Dehalobacter sp. 11DCA		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI16902	DHBDCA_p1092	DHBDCA_p1091
Dehalobacter sp. E1		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI14784	L621??	L621??
Dehalobacter sp. FTH1		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI14785	A37GDRAFT_03566	A37GDRAFT_03565
Dehalobacter sp. UNSWDHB		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	Ga0049311	UNSWDHB_463	UNSWDHB_417
Desulfitobacterium dehalogenans ATCC 51507 DSM 9161	(6)	Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI04867	Desde_2772	Desde_2771
Desulfitobacterium dichloroeliminans LMG P-21439		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI09801	Desdi_0780	Desdi_0781
Desulfitobacterium metallireducens 853-15A DSM 15288	(6)	Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI08580	Desme_1742	Desme_1741
Desulfitobacterium sp. PCE1 DSM 10344		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI12094	DesPCE1DRAFT_2748	DesPCE1DRAFT_2747
Desulfosporosinus acidiphilus SJ4 DSM 22704	(6)	Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI08592	Desaci_1621	Desaci_1622
Desulfosporosinus orientis Singapore I DSM 765		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	Gc02026	Desor_2652	Desor_2653
Desulfosporosinus sp. OT		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI08558	DOT_5808	DOT_5807
Desulfosporosinus youngiae DSM 17734	(6)	Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	GI07596	DesyoDRAFT_4238	DesyoDRAFT_4237
Desulfosporosinus sp. I2		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	Ga0078482	Ga0078482_100732	Ga0078482_100731
Desulfosporosinus sp. Tol-M Ga0063340		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	Ga0063340	Ga0063340_111519	Ga0063340_111520
Desulfosporosinus lacus DSM 15449		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	Ga0008219	EJ50DRAFT_03909	EJ50DRAFT_03908
Desulfosporosinus acididurans M1		Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	Ga0081127	Ga0081127_11461	Ga0081127_11462
Candidatus Desulfobacillus acidavidus CL4 (DSF)		Bacteria	Firmicutes						
Ethanoligenens harbinense YUAN-3T DSM 18485		Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Gc01658	Ethha_0975	Ethha_0976
Acetivibrio cellulolyticus CD2 DSM1870		Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ga0025127	Accece_0095	Accece_0096
Bacteroides cellulosolvans DSM 2933		Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ga0002087	Q332DRAFT_00323	Q332DRAFT_00324
Dehalobacter alkaliphilus AHT 1	(6)	Bacteria	Firmicutes	Clostridia	Clostridiales	Syntrophomonadaceae	GI02093	DealDRAFT_3158	DealDRAFT_3157
Clostridium termitidis CT1112		Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	GI18090	CTER_2596	CTER_2595
Clostridium cellulosi CS-4-4		Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Ga0048299	NoneDRAFT_01752	NoneDRAFT_01751
Clostridium jejuense DSM 15929		Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Ga0008239	EJ31DRAFT_03543	EJ31DRAFT_03544
Natronincola peptidivorans DSM 18979		Bacteria	Firmicutes	Clostridia	Clostridiales	Natronincola	Ga0056058	Ga0056058_01554	Ga0056058_01553
Acetonema longum APO-1 DSM 6540	(6)	Bacteria	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	GI11064	ALO_18015	ALO_18010
Dehalococcoides mccartyi DCMB5		Bacteria	Chloroflexi	Dehalococcoidetes	Dehalococcoidales	Dehalococcoidaceae	GI18019	dcmB_330	dcmB_329
Chloroflexi bacterium AB-755_L08G05		Bacteria	Chloroflexi						
Anaerolinea thermophila UNI-1		Bacteria	Chloroflexi	Anaerolinea	Anaerolineales	Anaerolineaceae	Gc01614		
Leptolinea tardivitalis YMTK-2 DSM 16556		Bacteria	Chloroflexi	Anaerolinea	Anaerolineales	Anaerolineaceae			
Spirochaeta sp. JC202		Bacteria	Spirochaetes	Spirochaeta	Spirochaetales	Spirochaetaceae	Ga0070834	Ga0070834_12304	Ga0070834_12303
Chrysiogenes arsenatis DSM 11915		Bacteria	Chrysiogenetes	Chrysiogenetes	Chrysiogenales	Chrysiogenaceae	GI0057376	GCAORF2211	GCAORF2212
Nitrospira bacterium SG8_3		Bacteria	Nitrospirae	Nitrospira	unclassified Nitrospira		Ga0111161	Ga0111161_11817	Ga0111161_11818
Nitrospira bacterium SG8_35_1		Bacteria	Nitrospirae	Nitrospira	unclassified Nitrospira		Ga0111162	Ga0111162_10937	Ga0111162_10938
Phycisphaerae bacterium SG8_4		Bacteria	Planctomycetes	Phycisphaerae	unclassified Phycisphaerae		Ga0111165	Ga0111165_11844	Ga0111165_11843
Bacteroides sp. SM23_62		Bacteria	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Ga0111175	Ga0111175_103711	Ga0111175_103710
Bacteroides sp. SM1_62		Bacteria	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Ga0111174	Ga0111174_11476	Ga0111174_11477
Atribacteria bacterium SCGC AAA255-N14 (SAK_001_136)		Bacteria	Atribacteria	unclassified			GI0019854	A255N14DRAFT_00003	A255N14DRAFT_00002
Atribacteria bacterium MPA AB-164-M20		Bacteria	Atribacteria	unclassified					
Atribacteria bacterium MPA AAA255-N14		Bacteria	Atribacteria	unclassified					
candidate division WOR_3 bacterium SM23_42		Bacteria	unclassified				Ga0111197	Ga0111197_10232	Ga0111197_10231
Methanoregula boonei 6A8		Archaea	Euryarchaeota	Methanomicrobia	Methanomicrobiales	Methanoregulaceae	Gc00629	Mboo_0422	Mboo_0421
Methanoregula formica SMSP DSM 22288		Archaea	Euryarchaeota	Methanomicrobia	Methanomicrobiales	Methanoregulaceae	GI08756	Metfor_0951	Metfor_0952

Predicted methylators

Methanosphaerula palustris E1-9c DSM 19958		Archaea	Euryarchaeota	Methanomicrobia	Methanomicrobiales	Methanoregulaceae	Gc01080	Mpal_1034	Mpal_1035
Methanofollis liminatans GKZPZ DSM 4140		Archaea	Euryarchaeota	Methanomicrobia	Methanomicrobiales	Methanomicrobiaceae	Gi02537	Metli_1685	Metli_1684
Methanospirillum hungatei JF-1 DSM 864		Archaea	Euryarchaeota	Methanomicrobia	Methanomicrobiales	Methanospirillaceae	Gc00350	Mhun_0876	Mhun_0875
Methanocorpusculum bavaricum DSM 4179		Archaea	Euryarchaeota	Methanomicrobia	Methanomicrobiales	Methanocorpusculaceae	Gi11678	H575DRAFT_00474	H575DRAFT_00475
Methanolobus tindarius DSM 2278	(6)	Archaea	Euryarchaeota	Methanomicrobia	Methanosarcinales	Methanosarcinaceae	Gi02920	MettiDRAFT_2866	MettiDRAFT_2865
Methanomethylovorans hollandica DSM 15978	(6)	Archaea	Euryarchaeota	Methanomicrobia	Methanosarcinales	Methanosarcinaceae	Gi02921	Metho_0631	Metho_0630
Methanolobus psychrophilus R15		Archaea	Euryarchaeota	Methanomicrobia	Methanosarcinales	Methanosarcinaceae	Ga0011869	Mpsy_0587	Mpsy_0586
Methanolobus vulcani PL 12/M		Archaea	Euryarchaeota	Methanomicrobia	Methanosarcinales	Methanosarcinaceae	Ga0073305	Ga0073305_2278	Ga0073305_2277
Methanolobus profundus Mob M		Archaea	Euryarchaeota	Methanomicrobia	Methanosarcinales	Methanosarcinaceae	Ga0073303	Ga0073303_0735	Ga0073303_0734
Methanocella arvoryzae MRE50 (RC-1) DSM 22066		Archaea	Euryarchaeota	Methanomicrobia	Methanocellales	Methanocellaceae	Gc00528	MRE50lv_0824	MRE50lv_0825
Methanocella paludicola SANAE		Archaea	Euryarchaeota	Methanomicrobia	Methanocellales	Methanocellaceae	Gc01163	MCPIv_0729	MCPIv_0728
Methanomassiliicoccus luminyensis B10		Archaea	Euryarchaeota	Methanomicrobia	unclassified		Gi17673		

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