

Table S1. List of genomes used in this study. Primary references are shown in bold typeface.

Taxonomic Group	Organism	Type species	Type strain	IMG Genome ID	NCBI Assembly	NamesforLife ID	Notes
Lactobacillales	<i>Aerococcus christensenii</i> CCUG28831 <sup>T</sup>	N	Y	2687453475	GCA_001543105.1	ex.5462	In Figure 1A.
	<i>Aerococcus sanguinicola</i> CCUG43001 <sup>T</sup>	N	Y	2687453481	GCA_001543145.1	ex.5463	In Figure 1A.
	<i>Aerococcus suis</i> DSM 21500 <sup>T</sup>	N	Y	2622736423	GCA_900176325.1	ex.10562	In Figure 1A.
	<i>Aerococcus urinae</i> ACS-120-V-Col10a	N	N	650716005	GCA_000193205.1	ex.5464	In Figure 1A.
	<i>Aerococcus urinaequi</i> DSM 20341 <sup>T</sup>	N	Y	2524614650	GCA_000425085.1	ex.5458	In Figure 1A.
	<i>Aerococcus urinaehominis</i> DSM 15634 <sup>T</sup>	N	Y	2619619005	GCA_900103385.1	ex.5465	In Figure 1A.
	<i>Alkalibacterium gilvum</i> DSM 25751 <sup>T</sup>	N	Y	2616644817	GCA_900109085.1	ex.23982	In Figure 1A.
	<i>Alkalibacterium olivapoliticum</i> DSM 13175 <sup>T</sup>	Y	Y	2731639256	N/A	ex.5501	In Figure 1A-B.
	<i>Alkalibacterium pelagium</i> DSM 19183 <sup>T</sup>	N	Y	2619619008	GCA_900109325.1	ex.14277	In Figure 1A.
	<i>Alkalibacterium putridaligicola</i> DSM 19182 <sup>T</sup>	N	Y	2619619007	GCA_900109825.1	ex.14278	In Figure 1A.
	<i>Alkalibacterium</i> sp. AK22	N	N	2609459999	GCA_000585255.1	N/A	In Figure 1A.
	<i>Alkalibacterium subtropicum</i> DSM 23664 <sup>T</sup>	N	Y	2616644818	GCA_900112455.1	ex.22742	In Figure 1A.
	<i>Alkalibacterium thalassium</i> DSM 19181 <sup>T</sup>	N	Y	2619619006	GCA_900101165.1	ex.14276	In Figure 1A.
	<i>Carnobacterium alterfunditum</i> p#4, DSM 5972 <sup>T</sup>	N	Y	2574179752	GCA_000744115.1	ex.5490	In Figure 1A.
	<i>Carnobacterium divergens</i> 66, DSM 20623 <sup>T</sup>	Y	Y	2574180433	GCA_000744255.1	ex.5360	In Figure 1A-B.
	<i>Carnobacterium funditum</i> p#3, DSM 5970 <sup>T</sup>	N	Y	2574179782	GCA_000744185.1	ex.5491	In Figure 1A.
	<i>Carnobacterium gallinarum</i> MT44, DSM 4847 <sup>T</sup>	N	Y	2576861831	GCA_000744375.1	ex.5492	In Figure 1A.
	<i>Carnobacterium iners</i> DSM 28070 <sup>T</sup>	N	Y	2622736582	GCA_900109585.1	ex.23986	In Figure 1A.
	<i>Carnobacterium inhibens</i> K1, DSM 13024 <sup>T</sup>	N	Y	2574179783	GCA_000746825.1	ex.50	In Figure 1A.
	<i>Carnobacterium jeorgali</i> MS3 <sup>T</sup>	N	Y	2579778522	GCA_000745125.1	ex.346	In Figure 1A.
	<i>Carnobacterium maltaromaticum</i> ATCC 35586	N	N	2547132401	GCA_000238575.2	ex.5419	In Figure 1A.
	<i>Carnobacterium mobile</i> MT37L, DSM 4848 <sup>T</sup>	N	Y	2576861400	GCA_000744825.1	ex.5495	In Figure 1A.
	<i>Carnobacterium pleistocenium</i> FTR1 <sup>T</sup>	N	Y	2576861401	GCA_000744285.1	ex.8532	In Figure 1A.
	<i>Enterococcus asini</i> ATCC 700915 <sup>T</sup>	N	Y	2545824658	GCA_000407365.1	ex.5527	In Figure 1A.
	<i>Enterococcus avium</i> ATCC 14025 <sup>T</sup>	N	Y	2541047449	GCA_000406965.1	ex.5528	In Figure 1A.
	<i>Enterococcus caecae</i> ATCC BAA-1240 <sup>T</sup>	N	Y	2545824664	GCA_000407145.1	ex.10150	In Figure 1A.
	<i>Enterococcus canis</i> NBRC 100695 <sup>T</sup>	N	Y	2681813000	GCA_001544375.1	ex.5529	In Figure 1A.
	<i>Enterococcus casseliflavus</i> 14-MB-W-14	N	N	2541047578	GCA_000414945.1	ex.5616	In Figure 1A.
	<i>Enterococcus cecorum</i> 1710s23	N	N	2630968331	GCA_001020435.1	ex.5617	In Figure 1A.
	<i>Enterococcus columbae</i> DSM 7374 <sup>T</sup>	N	Y	2515154086	GCA_000373065.1	ex.5532	In Figure 1A.
	<i>Enterococcus dispar</i> ATCC 51266 <sup>T</sup>	N	Y	2541047447	GCA_000406945.1	ex.5533	In Figure 1A.
	<i>Enterococcus faecalis</i> OG1RF, ATCC 47077	N*	N	2511231133	GCA_000172575.2	ex.5634	In Figure 1A. The type species is <i>E. faecalis</i> DSM 20478 <sup>T</sup> .
	<i>Enterococcus faecium</i> E161	N	N	2627853876	GCA_000934365.1	ex.5635	In Figure 1A.
	<i>Facklamia hominis</i> ACS-120-V-Sch10	N*	N	2541046978	GCA_000413455.1	ex.5476	In Figure 1A. The type species is <i>F. hominis</i> CCUG 36813 <sup>T</sup> .
	<i>Facklamia hominis</i> CCUG 36813 <sup>T</sup>	Y	Y	2531839288	GCA_000301035.1	ex.5476	In Figure 1A-B.
	<i>Facklamia ignava</i> CCUG 37419 <sup>T</sup>	N	Y	2531839287	GCA_000301055.1	ex.5477	In Figure 1A.
	<i>Facklamia languida</i> CCUG 37842 <sup>T</sup>	N	Y	2513237358	GCA_000245795.1	ex.5478	In Figure 1A.
	<i>Facklamia miroungae</i> ATCC BAA-466 <sup>T</sup>	N	Y	2675903695	GCA_900100775.1	ex.5479	In Figure 1A.
	<i>Facklamia sourekkii</i> ATCC 700629 <sup>T</sup>	N	Y	2545555869	GCA_000518205.1	ex.5480	In Figure 1A.
	<i>Globicatella sanguinis</i> NBRC 15551 <sup>T</sup>	Y	Y	2731957579	GCA_001552295.1	ex.5483	In Figure 1A-B.
	<i>Globicatella sulfidifaciens</i> DSM 15739 <sup>T</sup>	N	Y	2524614644	GCA_900167405.1	ex.5484	In Figure 1A.
	<i>Granulicatella adiacens</i> ATCC 49175 <sup>T</sup>	Y	Y	645951817	GCA_000160675.1	ex.5608	In Figure 1A-B.
	<i>Granulicatella balaenopterae</i> DSM 15827 <sup>T</sup>	N	Y	2684622850	GCA_900111135.1	ex.5469	In Figure 1A.
	<i>Granulicatella elegans</i> ATCC 700633 <sup>T</sup>	N	Y	647533172	GCA_000162475.2	ex.5470	In Figure 1A.
	<i>Lactobacillus acetotolerans</i> DSM 20749 <sup>T</sup>	N	Y	2700989123	GCA_001436775.1	ex.5324	In Figure 1A.
	<i>Lactobacillus coleohominis</i> 101-4-CHN	N	N	646206276	GCA_000161935.1	ex.5350	In Figure 1A.
	<i>Lactobacillus collinoides</i> DSM 20515 <sup>T</sup>	N	Y	2663762609	GCA_001435975.1	ex.5351	In Figure 1A.
	<i>Lactobacillus composti</i> DSM 18527 <sup>T</sup>	N	Y	2700989152	GCA_001436375.1	ex.10802	In Figure 1A.
	<i>Lactobacillus concavus</i> DSM 17758 <sup>T</sup>	N	Y	2671180578	GCA_001435835.1	ex.9609	In Figure 1A.
	<i>Lactobacillus coryniformis coryniformis</i> CECT 5711	N*	N	2534681632	GCA_000283115.1	ex.5353	In Figure 1A. The type species is <i>L. coryniformis</i> 34 <sup>T</sup> .
<i>Lactobacillus crispatus</i> ST1	N	N	646564539	GCA_000091765.1	ex.5663	In Figure 1A.	
<i>Lactobacillus crustorum</i> LMG 23699 <sup>T</sup>	N	Y	2663763277	GCA_0001438825.1	ex.11220	In Figure 1A.	
<i>Lactobacillus curvatus</i> NRIC0822	N	N	2627854163	GCA_000805355.1	ex.5356	In Figure 1A.	
<i>Lactobacillus delbrueckii</i> JCM 17838	N*	N	2721755462	GCA_001888965.1	ex.23521	In Figure 1A-B; ≥ 99% sequence identity in 16S rRNA gene to type species <i>L. delbrueckii</i> DSM 20074 <sup>T</sup> .	
<i>Lactococcus chungangensis</i> CAU8	N	N	2585427950	N/A	ex.13386	In Figure 1A-B; ≥ 99% sequence identity in 16S rRNA gene to <i>L. chungangensis</i> CAU28 <sup>T</sup> .	
<i>Lactococcus garvieae</i> 21881	N	N	2547132083	GCA_000205485.2	ex.5643	In Figure 1A.	
<i>Lactococcus lactis</i> Bp11	N*	N	2617271338	GCA_000759595.1	ex.5654	In Figure 1A. The type species is <i>L. lactis</i> DSM 20481 <sup>T</sup> .	
<i>Lactococcus lactis cremoris</i> CNCM I-1631	N	N	2534682039	GCA_000284735.1	ex.5620	In Figure 1A.	
<i>Lactococcus lactis lactis</i> IO-1	N*	N	2563366570	GCA_000344575.1	ex.10997	In Figure 1A. The type species is <i>L. lactis</i> DSM 20481 <sup>T</sup> .	

<i>Lactococcus raffinolactis</i> 4877	N	N	2600255100	GCA_000327305.1	ex.5679	In Figure 1A.
<i>Lactococcus</i> sp. DD01	N	N	2675903601	GCA_001578715.1	N/A	In Figure 1A.
<i>Marinilactibacillus piezotolerans</i> DSM 16108 <sup>T</sup>	N	Y	2636415975	GCA_900114235.1	ex.8686	In Figure 1A.
<i>Marinilactibacillus psychrotolerans</i> DSM 19582 <sup>T</sup>	Y	Y	2619619009	GCA_900101525.1	ex.5519	In Figure 1A-B.
<i>Marinilactibacillus</i> sp. 15R	N	N	2718218088	GCA_001895285.1	N/A	In Figure 1A.
<i>Melissoccoccus plutonius</i> 119 (MEPL8)	N*	N	2595698195	N/A	ex.5558	In Figure 1A. Type species is <i>M. plutonius</i> ATCC 35311 <sup>T</sup> .
<i>Melissoccoccus plutonius</i> 21.1 (MEPL4)	N*	N	2595698190	N/A	ex.5558	In Figure 1A. Type species is <i>M. plutonius</i> ATCC 35311 <sup>T</sup> .
<i>Melissoccoccus plutonius</i> ATCC 35311 <sup>T</sup>	Y	Y	650716050	GCA_000270185.1	ex.5558	In Figure 1A-B.
<i>Pediococcus acidilactici</i> 7_4	N	N	647533194	GCA_000163095.1	ex.5451	In Figure 1A.
<i>Pediococcus argentinicus</i> DSM 23026 <sup>T</sup>	N	Y	2660238258	GCA_001437605.1	ex.13523	In Figure 1A.
<i>Pediococcus cellicola</i> DSM 17757 <sup>T</sup>	N	Y	2657245420	GCA_001438655.1	ex.9605	In Figure 1A.
<i>Pediococcus clausenii</i> DSM 14800 <sup>T</sup>	N	Y	2660237910	GCA_001436905.1	ex.5452	In Figure 1A.
<i>Pediococcus damnosus</i> DSM 20331 <sup>T</sup>	Y	Y	2675903387	GCA_001437255.1	ex.5450	In Figure 1A-B.
<i>Pediococcus ethanolidurans</i> CGMCC 1.3889 <sup>T</sup>	N	Y	2617270883	GCA_900111205.1	ex.10936	In Figure 1A.
<i>Pediococcus inopinatus</i> DSM 20285 <sup>T</sup>	N	Y	2660238412	GCA_001438725.1	ex.5455	In Figure 1A.
<i>Pediococcus lolii</i> DSM 19927 <sup>T</sup>	N	Y	2663762867	GCA_001437115.1	ex.14268	In Figure 1A.
<i>Pediococcus stilisii</i> DSM 18001 <sup>T</sup>	N	Y	2667527983	GCA_001437075.1	ex.9879	In Figure 1A.
<i>Tetragenococcus halophilus</i> DSM 20339 <sup>T</sup>	Y	Y	2574179712	N/A	ex.5454	In Figure 1A-B.
<i>Tetragenococcus halophilus</i> FB13	N*	N	2744054634	GCA_001593045.1	ex.5454	In Figure 1A. Type species is <i>T. halophilus</i> DSM 20339 <sup>T</sup> .
<i>Tetragenococcus halophilus</i> NBRC 12172	N*	N	2511231116	GCA_000283615.1	ex.5454	In Figure 1A. Type species is <i>T. halophilus</i> DSM 20339 <sup>T</sup> .
<i>Tetragenococcus muricius</i> DSM 15685 <sup>T</sup>	N	Y	2524614634	GCA_000423785.1	ex.5561	In Figure 1A.
<i>Tetragenococcus muricius</i> PMC-11-5	N	N	2630968441	GCA_000747235.1	ex.5561	In Figure 1A.
<i>Tetragenococcus solitarius</i> NBRC 100494 <sup>T</sup>	N	Y	2731957563	GCA_001544195.1	ex.5552	In Figure 1A.
<i>Trichococcus collinsii</i> DSM 14526 <sup>T</sup>	N	Y	2619618821	GCA_900107505.1	ex.9804	In Figure 1A.
<i>Trichococcus flocculiformis</i> DSM 2094 <sup>T</sup>	Y	Y	2619618836	GCA_900113645.1	ex.5521	In Figure 1A-B.
<i>Trichococcus flocculiformis</i> DSM 23957	N*	N	2619618835	GCA_900129415.1	ex.5521	In Figure 1A. Type species is <i>T. flocculiformis</i> DSM 2094 <sup>T</sup> .
<i>Trichococcus palustris</i> DSM 9172 <sup>T</sup>	N	Y	2619618822	GCA_900114465.1	ex.4162	In Figure 1A.
<i>Trichococcus pasteurii</i> DSM 2381 <sup>T</sup>	N	Y	2619618823	GCA_900112935.1	ex.4163	In Figure 1A.
<i>Trichococcus patagoniensis</i> DSM 18806 <sup>T</sup>	N	Y	2737471637	N/A	ex.10276	In Figure 1A.
<i>Trichococcus</i> sp. B5	N	N	2734482389	GCA_000300005.1	ex.8942	In Figure 1A.
<i>Trichococcus</i> sp. B7-2	N	N	2734482390	GCA_000462405.2	N/A	In Figure 1A.
<i>Trichococcus</i> sp. DSM 22150	N	N	2619618824	GCA_900109135.1	ex.29050	In Figure 1A.
<i>Weissella cibaria</i> KACC 11862	N	N	651324108	GCA_000193635.2	ex.5593	In Figure 1A.
<i>Weissella halotolerans</i> DSM 20190 <sup>T</sup>	N	Y	2522572202	GCA_000420365.1	ex.5374	In Figure 1A.
<i>Weissella hellenica</i> Wikim14	N	N	2585428030	GCA_000715455.1	ex.5596	In Figure 1A.
<i>Weissella kandleri</i> DSM 20593 <sup>T</sup>	N	Y	2700989265	GCA_001438705.1	ex.5385	In Figure 1A.
<i>Weissella koreensis</i> KACC 15510	N	N	650716105	GCA_000219805.1	ex.5599	In Figure 1A.
<i>Weissella minor</i> DSM 20014 <sup>T</sup>	N	Y	2671181108	GCA_001437425.1	ex.5402	In Figure 1A.
<i>Weissella oryzae</i> SG25 <sup>T</sup>	N	Y	2582581020	GCA_000691805.2	ex.23995	In Figure 1A.
<i>Weissella paramesenteroides</i> ATCC 33313 <sup>T</sup>	N	Y	645058793	GCA_000160575.1	ex.5587	In Figure 1A.
<i>Weissella viridescens</i> DSM 20410 <sup>T</sup>	Y	Y	2690315949	GCA_001437355.1	ex.5441	In Figure 1A-B.
<i>Abiotrophia defectiva</i> ATCC 49176 <sup>T</sup>	Y	Y	2562617177	GCA_000160075.2	ex.5623	In Figure 1B.
<i>Aerococcus viridans</i> CCUG4311 <sup>T</sup>	Y	Y	2684623177	GCA_001543285.1	ex.5461	In Figure 1B.
<i>Agitococcus lubricus</i> DSM 5822 <sup>T</sup>	Y	Y	2737471639	N/A	ex.5499	In Figure 1B.
<i>Allofustis seminis</i> DSM 15817 <sup>T</sup>	Y	Y	2518285549	GCA_000374325.1	ex.5503	In Figure 1B.
<i>Alloiooccus otitis</i> ATCC 51267 <sup>T</sup>	Y	Y	2537561904	GCA_000315445.1	ex.5505	In Figure 1B.
<i>Atopobacter phocae</i> ATCC BAA-285 <sup>T</sup>	Y	Y	2546825536	GCA_000526675.1	ex.5556	In Figure 1B.
<i>Atopococcus tabaci</i> DSM 17538 <sup>T</sup>	Y	Y	2524023159	GCA_000429585.1	ex.9507	In Figure 1B.
<i>Atopostipes suicloacalis</i> DSM 15692 <sup>T</sup>	Y	Y	2582581273	GCA_900129085.1	ex.8484	In Figure 1B.
<i>Bavariococcus seileri</i> WCC 4188, DSM 19936 <sup>T</sup>	Y	Y	2523533538	GCA_000421665.1	ex.14743	In Figure 1B.
<i>Catellibacoccus marimammalium</i> M35/04/3 <sup>T</sup>	Y	Y	2519899603	GCA_000313915.1	ex.9884	In Figure 1B.
<i>Desemzia incerta</i> DSM 20581 <sup>T</sup>	Y	Y	2622736579	GCA_900115825.1	ex.5935	In Figure 1B.
<i>Dolosococcus paucivorans</i> DSM 15742 <sup>T</sup>	Y	Y	2622736585	GCA_900100125.1	ex.5472	In Figure 1B.
<i>Dolosigranulum pigrum</i> ATCC 51524 <sup>T</sup>	Y	Y	2513237341	GCA_000245815.1	ex.5509	In Figure 1B.
<i>Enterococcus faecalis</i> ATCC 19433 <sup>T</sup>	Y	Y	2558860282	GCA_000392875.1	ex.5634	In Figure 1B.
<i>Eremococcus coleocola</i> DSM 15696 <sup>T</sup>	Y	Y	2524614563	GCA_000428865.1	ex.5474	In Figure 1B.
<i>Fructobacillus fructosus</i> 353, KCTC 3544 <sup>T</sup>	Y	Y	651324031	GCA_000185045.2	ex.5368	In Figure 1B.
<i>Ignavigranum ruoffiae</i> DSM 15695 <sup>T</sup>	Y	Y	2634166308	GCA_900110675.1	ex.5486	In Figure 1B.
<i>Isobaculum melis</i> DSM 13760 <sup>T</sup>	Y	Y	2634166323	GCA_900111355.1	ex.5515	In Figure 1B.
<i>Lacticigenium naphae</i> DSM 19658 <sup>T</sup>	Y	Y	2524023191	GCA_000425865.1	ex.14179	In Figure 1B.
<i>Lactococcus fujiensis</i> JCM 16395 <sup>T</sup>	N	Y	2728369676	GCA_001311235.1	ex.22150	In Figure 1B.

	<i>Lactococcus garvieae</i> NBRC 100934 <sup>T</sup>	N	Y	2600255050	GCA_000739975.1	ex.5643	In Figure 1B.	
	<i>Lactococcus lactis cremoris</i> HP <sup>T</sup>	N	Y	2568526316	GCA_000534815.1	ex.5620	In Figure 1B.	
	<b><i>Lactococcus lactis lactis</i> ATCC 19435<sup>T</sup></b>	Y	Y	2695420395	GCA_001456385.1	ex.5654	In Figure 1B.	
	<i>Lactococcus plantarum</i> NBRC 100936 <sup>T</sup>	N	Y	2731957665	GCA_001591745.1	ex.5674	In Figure 1B.	
	<i>Lactococcus raffinolactis</i> NBRC 100932 <sup>T</sup>	N	Y	2731957666	GCA_001591765.1	ex.5679	In Figure 1B.	
	<i>Leuconostoc mesenteroides mesenteroides</i> ATCC 8293 <sup>T</sup>	Y	Y	639633034	GCA_000014445.1	ex.5569	In Figure 1B.	
	<i>Oenococcus oeni</i> DSM 20252 <sup>T</sup>	Y	Y	2515154139	GCA_000372485.1	ex.5586	In Figure 1B.	
	<i>Pilbacter termitis</i> ATCC BAA-1030 <sup>T</sup>	Y	Y	2585428141	GCA_900167335.1	ex.9827	In Figure 1B.	
	<i>Pisciglobus halotolerans</i> DSM 27630 <sup>T</sup>	Y	Y	2634166901	GCA_900113675.1	ex.22178	In Figure 1B.	
	<i>Sharpea azabuensis</i> DSM 18934 <sup>T</sup>	Y	Y	2561511132	GCA_000702165.1	ex.13776	In Figure 1B.	
	<i>Streptococcus pyogenes</i> DSM 20565 <sup>T</sup>	Y	Y	2523533626	GCA_000421785.1	ex.5606	In Figure 1B.	
	<i>Alteromonadales</i>	<i>Aestuariibacter salexigens</i> DSM 15300 <sup>T</sup>	Y	Y	2524614540	GCA_000429145.1	ex.2831	In Figure 2.
		<i>Agarivorans albus</i> MKT 106 <sup>T</sup>	Y	Y	2620041858	GCA_000414175.1	ex.8440	In Figure 2.
		<i>Aliagarivorans marinus</i> DSM 23064 <sup>T</sup>	Y	Y	2523533543	GCA_000429485.1	ex.14553	In Figure 2.
		<i>Alteromonas naeleodii</i> ATCC 27126 <sup>T</sup>	Y	Y	2554235747	GCA_000172635.2	ex.2807	In Figure 2.
		<i>Catenovulum agarivorans</i> YM01 <sup>T</sup>	Y	Y	2548877024	GCA_000281085.1	ex.22716	In Figure 2.
		<i>Desulfotomaculum nigrificans</i> DSM 574 <sup>T</sup>	Y	Y	2507262026	GCA_000189755.3	ex.4330	In Figure 2.
<i>Ferrimonas balearica</i> PAT, DSM 9799 <sup>T</sup>		Y	Y	648028026	GCA_000148645.1	ex.2843	In Figure 2.	
<i>Gilvimarinus chinensis</i> DSM 19667 <sup>T</sup>		Y	Y	2519103187	GCA_000377745.1	ex.14916	In Figure 2.	
<i>Glaciecola punicea</i> DSM 14233 <sup>T</sup>		Y	Y	2534682265	GCA_000252165.2	ex.2845	In Figure 2.	
<i>Hallea salexigens</i> DSM 19537 <sup>T</sup>		Y	Y	2523533559	GCA_000423125.1	ex.13722	In Figure 2.	
<i>Idiomarina abyssalis</i> KMM 227 <sup>T</sup>		Y	Y	2642422567	GCA_900116625.1	ex.2849	In Figure 2.	
<i>Marinobacter hydrocarbonoclasticus</i> ATCC 49840 <sup>T</sup>		Y	Y	2540341173	GCA_000284615.1	ex.2854	In Figure 2.	
<i>Marinobacterium georgiense</i> DSM 11526 <sup>T</sup>		Y	Y	2634166328	GCA_900107855.1	ex.2861	In Figure 2.	
<i>Moritella marina</i> ATCC 15381 <sup>T</sup>		Y	Y	2519899695	GCA_000381865.1	ex.2981	In Figure 2.	
<i>Pseudalteromonas haloplanktis</i> ATCC 14393 <sup>T</sup>		Y	Y	2548876785	GCA_000238355.2	ex.2819	In Figure 2.	
<i>Saccharophagus degradans</i> 2-40 <sup>T</sup>		Y	Y	637000249	GCA_000013665.1	ex.9527	In Figure 2.	
<i>Salinimonas chungwhensis</i> DSM 16280 <sup>T</sup>		Y	Y	2518645602	GCA_000378185.1	ex.8831	In Figure 2.	
<i>Shewanella algae</i> JCM 21037 <sup>T</sup>		Y	Y	2585427912	GCA_000615045.1	ex.2916	In Figure 2.	
<i>Shewanella amazonensis</i> SB2B <sup>T</sup>		N	Y	2518645527	GCA_000015245.1	ex.2917	In Figure 2.	
<i>Shewanella chilikensis</i> JCS <sup>T</sup>		N	Y	2740891837	N/A	ex.14929	In Figure 2.	
<i>Shewanella colwelliana</i> ATCC 39565 <sup>T</sup>		N	Y	2545555858	GCA_000518705.1	ex.2812	In Figure 2.	
<i>Shewanella decolorationis</i> S12 <sup>T</sup>		N	Y	2528768161	GCA_000485795.1	ex.7695	In Figure 2.	
<i>Shewanella denitrificans</i> OS217 <sup>T</sup>		N	Y	2524023135	GCA_000013765.1	ex.2921	In Figure 2.	
<i>Shewanella fidelis</i> ATCC BAA-318 <sup>T</sup>		N	Y	2545555820	GCA_000518605.1	ex.2922	In Figure 2.	
<i>Shewanella frigidimarina</i> NCIMB 400		N	N	2524023134	GCA_000014705.1	ex.2923	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>S. frigidimarina</i> ACAM 591 <sup>T</sup> .	
<i>Shewanella halfaxensis</i> HAW-EB4 <sup>T</sup>		N	Y	641522648	GCA_000019185.1	ex.9847	In Figure 2.	
<i>Shewanella halotitis</i> JCM 14758 <sup>T</sup>		N	Y	2565956593	GCA_000614935.1	ex.11581	In Figure 2.	
<i>Shewanella japonica</i> KCTC 22435 <sup>T</sup>		N	Y	2751185848	GCA_002075795.1	ex.2927	In Figure 2.	
<i>Shewanella loihica</i> PV-4 <sup>T</sup>		N	Y	2521172611	GCA_000016065.1	ex.10248	In Figure 2.	
<i>Shewanella mangrovi</i> YQH10 <sup>T</sup>		N	Y	2609460317	GCA_000753795.1	ex.27090	In Figure 2.	
<i>Shewanella marina</i> JCM 15074 <sup>T</sup>		N	Y	2585427913	GCA_000614975.1	ex.14555	In Figure 2.	
<i>Shewanella morhuae</i> ATCC BAA-1205 <sup>T</sup>		N	Y	2681812898	GCA_900156405.1	ex.9850	In Figure 2.	
<i>Shewanella oneidensis</i> MR-1 <sup>T</sup>		N	Y	637000258	GCA_000146165.2	ex.2931	In Figure 2.	
<i>Shewanella pealeana</i> ANG-SQ1, ATCC 700345 <sup>T</sup>		N	Y	641228508	GCA_000018285.1	ex.2932	In Figure 2.	
<i>Shewanella piezotolerans</i> WP3 <sup>T</sup>		N	Y	643348575	GCA_000014885.1	ex.11028	In Figure 2.	
<b><i>Shewanella putrefaciens</i> JCM 20190<sup>T</sup></b>		Y	Y	2585427914	GCA_000615005.1	ex.2824	In Figure 2.	
<i>Shewanella sediminis</i> HAW-EB3 <sup>T</sup>		N	Y	640753050	GCA_000018025.1	ex.9524	In Figure 2.	
<i>Shewanella violacea</i> DSS12 <sup>T</sup>		N	Y	646564568	GCA_000091325.1	ex.2935	In Figure 2.	
<i>Shewanella waksmanii</i> ATCC BAA-643 <sup>T</sup>		N	Y	2546825523	GCA_000518805.1	ex.2936	In Figure 2.	
<i>Shewanella woodyi</i> MS32, ATCC 51908 <sup>T</sup>		N	Y	641522649	GCA_000019525.1	ex.2937	In Figure 2.	
<i>Shewanella xiamenensis</i> BC01		N	N	2585428033	GCA_000712635.2	ex.19891	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>S. xiamenensis</i> S4 <sup>T</sup> .	
<i>Teredinibacter turnerae</i> T7902 <sup>T</sup>		Y	Y	2513237099	GCA_000379165.1	ex.2943	In Figure 2.	
<i>Thalassomonas viridans</i> XOM25 <sup>T</sup>		Y	Y	2630968601	GCA_000948985.1	ex.2939	In Figure 2.	
<i>Flavobacteriaceae</i>		<i>Algibacter lectus</i> DSM 15365 <sup>T</sup>	Y	Y	2634166310	GCA_900112395.1	ex.8448	In Figure 2.
		<i>Algoriella xinjiangensis</i> XJ109 <sup>T</sup>	Y	Y	2675903033	GCA_900115015.1	ex.29092	In Figure 2.
		<i>Arenibacter latericius</i> DSM 15913 <sup>T</sup>	Y	Y	2524614597	GCA_000424985.1	ex.8129	In Figure 2.
		<i>Arenitalea lutea</i> CGMCC 1.12213 <sup>T</sup>	Y	Y	2667528186	GCA_900141715.1	ex.24387	In Figure 2.
	<i>Bergeyella zoohelcium</i> ATCC 43767 <sup>T</sup>	Y	Y	2537561901	GCA_000301075.1	ex.8204	In Figure 2.	
	<i>Bizionia paragorgiae</i> DSM 23842 <sup>T</sup>	Y	Y	2622736593	GCA_900107625.1	ex.8513	In Figure 2.	
	<i>Capnocytophaga ochracea</i> VPI 2845, DSM 7271 <sup>T</sup>	Y	Y	644736338	GCA_000023285.1	ex.7969	In Figure 2.	

<i>Cellulophaga lytica</i> LIM-21, DSM 7489 <sup>T</sup>	Y	Y	649633032	GCA_000190595.1	ex.8284	In Figure 2.
<i>Chishuiella changwenlii</i> DSM 27989 <sup>T</sup>	Y	Y	2700988695	GCA_900142565.1	ex.25702	In Figure 2.
<i>Chryseobacterium gleum</i> F93, ATCC 35910 <sup>T</sup>	Y	Y	2562617092	GCA_000143785.1	ex.8089	In Figure 2.
<i>Cloacibacterium normanense</i> DSM 15886 <sup>T</sup>	Y	Y	2634166320	GCA_900104195.1	ex.10119	In Figure 2.
<i>Croceibacter atlanticus</i> HTCC2559 <sup>T</sup>	Y	Y	2526164557	GCA_000196315.1	ex.8160	In Figure 2.
<i>Cruoricaptor ignavus</i> DSM 25479 <sup>T</sup>	Y	Y	2700988704	GCA_900141665.1	ex.23678	In Figure 2.
<i>Dokdonia donghaensis</i> DSW-1 <sup>T</sup>	Y	Y	2627853639	GCA_000769435.1	ex.9753	In Figure 2.
<i>Eltzabethkingia meningoseptica</i> ATCC 13253 <sup>T</sup>	Y	Y	2545824725	GCA_000401415.1	ex.8100	In Figure 2.
<i>Empedobacter brevis</i> ATCC 43319 <sup>T</sup>	Y	Y	2521172654	GCA_000382425.1	ex.8077	In Figure 2.
<i>Eudoraea adriatica</i> DSM 19308 <sup>T</sup>	Y	Y	2522572201	GCA_000382125.1	ex.13716	In Figure 2.
<i>Flagellimonas eckloniae</i> DOKDO 007 <sup>T</sup>	Y	Y	2622736625	GCA_001413955.1	ex.10720	In Figure 2.
<i>Flaviramulus basaltis</i> DSM 18180 <sup>T</sup>	Y	Y	2675903155	GCA_900114265.1	ex.10722	In Figure 2.
<i>Flavobacterium acidiliphilum</i> DSM 25663 <sup>T</sup>	N	Y	2728369510	N/A	ex.24111	In Figure 2.
<i>Flavobacterium akaii</i> DSM 25510 <sup>T</sup>	N	Y	2693429907	GCA_900115875.1	ex.24514	In Figure 2.
<i>Flavobacterium anhuiense</i> CGMCC 1.6859 <sup>T</sup>	N	Y	2596583647	GCA_900101855.1	ex.13324	In Figure 2.
<i>Flavobacterium antarcticum</i> DSM 19726 <sup>T</sup>	N	Y	2513237111	GCA_000419685.1	ex.9377	In Figure 2.
<i>Flavobacterium aquaticum</i> CGMCC 1.12398 <sup>T</sup>	N	Y	2718217678	N/A	ex.24519	In Figure 2.
<b>Flavobacterium aquatile</b> LMG 4008 <sup>T</sup>	Y	Y	2617271337	GCA_000757385.1	ex.8072	In Figure 2.
<i>Flavobacterium aquaticum</i> DSM 100880 <sup>T</sup> (v2)	N	Y	2739367662	N/A	ex.28736	In Figure 2.
<i>Flavobacterium aquidurens</i> DSM 18293 <sup>T</sup>	N	Y	2693429908	GCA_900107365.1	ex.10723	In Figure 2.
<i>Flavobacterium araucanum</i> DSM 24704 <sup>T</sup>	N	Y	2695420947	GCA_002222055.1	ex.23118	In Figure 2.
<i>Flavobacterium heibuenense</i> F44-8 <sup>T</sup>	N	Y	2630968333	GCA_000769915.1	ex.20382	In Figure 2.
<i>Flavobacterium caeni</i> CGMCC 1.7031 <sup>T</sup>	N	Y	2596583574	GCA_900101895.1	ex.16886	In Figure 2.
<i>Flavobacterium cauense</i> CGMCC 1.7270 <sup>T</sup>	N	Y	2596583571	GCA_000769815.1	ex.14858	In Figure 2. The NCBI assembly is from strain R2A-7 <sup>T</sup> which has multiple designations, including CGMCC 1.7270 <sup>T</sup> .
<i>Flavobacterium cheniae</i> CGMCC 1.6844 <sup>T</sup>	N	Y	2596583558	N/A	ex.13325	In Figure 2.
<i>Flavobacterium chilense</i> DSM 24724 <sup>T</sup>	N	Y	2700988709	GCA_900142685.1	ex.23117	In Figure 2.
<i>Flavobacterium chungangense</i> LMG 26729 <sup>T</sup>	N	Y	2609460032	GCA_000735715.2	ex.14516	In Figure 2.
<i>Flavobacterium crassostreae</i> LPB0076 <sup>T</sup>	N	Y	2721755704	GCA_001831475.1	ex.29742	In Figure 2.
<i>Flavobacterium croceum</i> DSM 17960 <sup>T</sup>	N	Y	2734482249	GCA_002917885.1	ex.10724	In Figure 2.
<i>Flavobacterium cucumis</i> DSM 18830 <sup>T</sup>	N	Y	2698536819	GCA_900148835.1	ex.11254	In Figure 2.
<i>Flavobacterium cuthiradinis</i> DSM 25795 <sup>T</sup>	N	Y	2695421040	N/A	ex.24384	In Figure 2.
<i>Flavobacterium daejeonense</i> DSM 17708 <sup>T</sup>	N	Y	2523533615	GCA_000425425.1	ex.10177	In Figure 2.
<i>Flavobacterium dankookense</i> DSM 25687 <sup>T</sup>	N	Y	2695421041	N/A	ex.23425	In Figure 2.
<i>Flavobacterium defluvii</i> DSM 17963 <sup>T</sup>	N	Y	2695420958	GCA_900129555.1	ex.10725	In Figure 2.
<i>Flavobacterium degerlachei</i> DSM 15718 <sup>T</sup>	N	Y	2693429883	GCA_900106645.1	ex.8081	In Figure 2.
<i>Flavobacterium denitrificans</i> DSM 15936 <sup>T</sup>	N	Y	2523533577	GCA_000425445.1	ex.9449	In Figure 2.
<i>Flavobacterium endophyticum</i> DSM 29537 <sup>T</sup>	N	Y	2731639186	N/A	ex.27725	In Figure 2.
<i>Flavobacterium ensiense</i> DK69 <sup>T</sup>	N	Y	2576861554	GCA_000769895.1	ex.23914	In Figure 2.
<i>Flavobacterium filum</i> DSM 17961 <sup>T</sup>	N	Y	2523533606	GCA_000425465.1	ex.11363	In Figure 2.
<i>Flavobacterium flevense</i> DSM 1076 <sup>T</sup>	N	Y	2700988729	GCA_900142775.1	ex.8084	In Figure 2.
<i>Flavobacterium flavii</i> DSM 19978 <sup>T</sup>	N	Y	2695420956	GCA_900129545.1	ex.16881	In Figure 2.
<i>Flavobacterium fontis</i> DSM 25660 <sup>T</sup>	N	Y	2695420946	GCA_900129405.1	ex.24115	In Figure 2.
<i>Flavobacterium frigidarium</i> DSM 17623 <sup>T</sup>	N	Y	2523533550	GCA_000425505.1	ex.8085	In Figure 2.
<i>Flavobacterium frigidimaris</i> DSM 15937 <sup>T</sup>	N	Y	2695420960	GCA_900129595.1	ex.9651	In Figure 2.
<i>Flavobacterium frigoris</i> DSM 15719 <sup>T</sup>	N	Y	2693429909	GCA_900111075.1	ex.8086	In Figure 2.
<i>Flavobacterium frysellicola</i> DSM 16209 <sup>T</sup>	N	Y	2695420925	GCA_900143245.1	ex.9379	In Figure 2.
<i>Flavobacterium gelidilacis</i> DSM 15343 <sup>T</sup>	N	Y	2523533607	GCA_000422685.1	ex.8087	In Figure 2.
<i>Flavobacterium gillisiae</i> DSM 22376 <sup>T</sup>	N	Y	2693429912	GCA_900107635.1	ex.8088	In Figure 2.
<i>Flavobacterium gilvum</i> EMI308 <sup>T</sup>	N	Y	2609460187	GCA_000735535.1	ex.29530	In Figure 2.
<i>Flavobacterium glaciei</i> CGMCC 1.5380 <sup>T</sup>	N	Y	2596583583	N/A	ex.10726	In Figure 2.
<i>Flavobacterium glycines</i> Gm-149 <sup>T</sup>	N	Y	2660237900	GCA_900100165.1	ex.20123	In Figure 2.
<i>Flavobacterium granuli</i> DSM 17797 <sup>T</sup>	N	Y	2695420924	GCA_003003155.1	ex.9378	In Figure 2.
<i>Flavobacterium haoranii</i> DSM 22807 <sup>T</sup>	N	Y	2695421039	GCA_900142055.1	ex.20299	In Figure 2.
<i>Flavobacterium hercynium</i> DSM 18292 <sup>T</sup>	N	Y	2724679814	GCA_002217285.1	ex.10727	In Figure 2.
<i>Flavobacterium hibernum</i> DSM 12611 <sup>T</sup>	N	Y	2648501293	GCA_000832125.1	ex.8093	In Figure 2.
<i>Flavobacterium hydatis</i> DSM 2063 <sup>T</sup>	N	Y	2617271209	GCA_000737695.1	ex.8094	In Figure 2.
<i>Flavobacterium indicum</i> GPTSA100-9 <sup>T</sup>	N	Y	2540341066	GCA_000455605.1	ex.10728	In Figure 2.
<i>Flavobacterium johnsoniae</i> DSM 2064 <sup>T</sup>	N	Y	2698536700	GCA_900142355.1	ex.8097	In Figure 2.
<i>Flavobacterium lacus</i> CGMCC 1.12504 <sup>T</sup>	N	Y	2718217692	N/A	ex.25242	In Figure 2.
<i>Flavobacterium limicola</i> DSM 15094 <sup>T</sup>	N	Y	2698536747	N/A	ex.8098	In Figure 2.
<i>Flavobacterium limosodiminis</i> JC2902 <sup>T</sup>	N	Y	2571042671	GCA_000498535.1	ex.24918	In Figure 2.

<i>Flavobacterium lindanitolerans</i> DSM 21886 <sup>1</sup>	N	Y	2731639123	GCA_002846575.1	ex.13326	In Figure 2.
<i>Flavobacterium marinum</i> CGMCC 1.10825 <sup>T</sup>	N	Y	2596583585	GCA_900108395.1	ex.24615	In Figure 2.
<i>Flavobacterium micromati</i> DSM 17659 <sup>T</sup>	N	Y	2695420959	GCA_900129585.1	ex.8101	In Figure 2.
<i>Flavobacterium nitrogenifigens</i> DSM 29982 <sup>T</sup>	N	Y	2724679792	N/A	ex.27219	In Figure 2.
<i>Flavobacterium noncentrifigens</i> CGMCC 1.10076 <sup>T</sup>	N	Y	2619618994	GCA_900100375.1	ex.24205	In Figure 2.
<i>Flavobacterium omnivorum</i> CGMCC 1.2747 <sup>T</sup>	N	Y	2617270789	GCA_900099915.1	ex.8107	In Figure 2.
<i>Flavobacterium pectinovorum</i> DSM 6368 <sup>T</sup>	N	Y	2698536748	GCA_900142715.1	ex.8108	In Figure 2.
<i>Flavobacterium phragmitis</i> CGMCC 1.10370 <sup>T</sup>	N	Y	2667527437	GCA_900112575.1	ex.22690	In Figure 2.
<i>Flavobacterium piscis</i> CCUG 60099 <sup>T</sup>	N	Y	2751185903	GCA_001686925.1	ex.25121	In Figure 2.
<i>Flavobacterium psychrophilum</i> DSM 3660 <sup>T</sup>	N	Y	2622736523	GCA_900101925.1	ex.8109	In Figure 2.
<i>Flavobacterium reichenbachii</i> LMG 25512 <sup>T</sup>	N	Y	2617271205	GCA_000737685.1	ex.14788	In Figure 2.
<i>Flavobacterium resistens</i> DSM 19382 <sup>T</sup>	N	Y	2724679687	N/A	ex.13327	In Figure 2.
<i>Flavobacterium rivuli</i> DSM 21788 <sup>T</sup>	N	Y	2519103183	GCA_000378485.1	ex.14785	In Figure 2.
<i>Flavobacterium saccharophilum</i> DSM 1811 <sup>T</sup>	N	Y	2698536752	GCA_900142735.1	ex.8111	In Figure 2.
<i>Flavobacterium saliperosum</i> CGMCC 1.3801 <sup>T</sup>	N	Y	2596583547	GCA_900100625.1	ex.9912	In Figure 2.
<i>Flavobacterium sasangense</i> DSM 21067 <sup>T</sup>	N	Y	2563366726	GCA_000686885.1	ex.14307	In Figure 2.
<i>Flavobacterium segetis</i> DSM 19741 <sup>T</sup>	N	Y	2695420957	GCA_900129575.1	ex.10116	In Figure 2.
<i>Flavobacterium seoulense</i> EM1321 <sup>T</sup>	N	Y	2609460189	GCA_000695795.1	ex.26475	In Figure 2.
<i>Flavobacterium sinopsychrotolerans</i> CGMCC 1.8704 <sup>T</sup>	N	Y	2619618873	GCA_900110375.1	ex.20377	In Figure 2.
<i>Flavobacterium soli</i> DSM 19725 <sup>T</sup>	N	Y	2522572162	GCA_000422705.1	ex.10061	In Figure 2.
<i>Flavobacterium subsaxonicum</i> DSM 21790 <sup>T</sup>	N	Y	2524614667	GCA_000422725.1	ex.14786	In Figure 2.
<i>Flavobacterium succinicans</i> DSM 4002 <sup>T</sup>	N	Y	2693429891	GCA_900114945.1	ex.8115	In Figure 2.
<i>Flavobacterium suncheonense</i> GH29-5, DSM 17707 <sup>T</sup>	N	Y	2524614632	GCA_000430025.1	ex.10178	In Figure 2.
<i>Flavobacterium swingsii</i> DSM 21789 <sup>T</sup>	N	Y	2599185297	GCA_900111965.1	ex.14787	In Figure 2.
<i>Flavobacterium tegetincola</i> DSM 22377 <sup>T</sup>	N	Y	2524023138	GCA_000425485.1	ex.8116	In Figure 2.
<i>Flavobacterium terrae</i> DSM 18829 <sup>T</sup>	N	Y	2695421047	GCA_900142035.1	ex.11253	In Figure 2.
<i>Flavobacterium terrigena</i> DSM 17934 <sup>T</sup>	N	Y	2600255390	GCA_900108955.1	ex.10729	In Figure 2.
<i>Flavobacterium tiangeense</i> CGMCC 1.6847 <sup>T</sup>	N	Y	2596583560	N/A	ex.14860	In Figure 2.
<i>Flavobacterium ummariense</i> DS-12 <sup>T</sup>	N	Y	2675903027	GCA_900115115.1	ex.23553	In Figure 2.
<i>Flavobacterium urocanticophilum</i> DSM 27078 <sup>T</sup>	N	Y	2693429864	GCA_900110615.1	ex.25446	In Figure 2.
<i>Flavobacterium urumqiense</i> CGMCC 1.9230 <sup>T</sup>	N	Y	2617270781	GCA_900108015.1	ex.23039	In Figure 2.
<i>Flavobacterium weaverense</i> DSM 19727 <sup>T</sup>	N	Y	2698536818	N/A	ex.10115	In Figure 2.
<i>Flavobacterium xanthum</i> DSM 3661 <sup>T</sup>	N	Y	2700988712	GCA_900142695.1	ex.8120	In Figure 2.
<i>Flavobacterium xinjiangense</i> CGMCC 1.2749 <sup>T</sup>	N	Y	2663762760	GCA_900142885.1	ex.8121	In Figure 2.
<i>Flavobacterium xueshanense</i> CGMCC 1.9227 <sup>T</sup>	N	Y	2617270785	GCA_900112975.1	ex.23038	In Figure 2.
<i>Formosa algae</i> KMM 3553 <sup>T</sup>	Y	Y	2724678980	GCA_001439665.1	ex.8584	In Figure 2.
<i>Gaetbulibacter saemankumensis</i> DSM 17032 <sup>T</sup>	Y	Y	2524614665	GCA_000425645.1	ex.9640	In Figure 2.
<i>Gelidibacter algens</i> DSM 12408 <sup>T</sup>	Y	Y	2593339300	N/A	ex.8164	In Figure 2.
<i>Gillisia limnaea</i> R-8282, DSM 15749 <sup>T</sup>	Y	Y	2506783053	GCA_000243235.1	ex.8167	In Figure 2.
<i>Gramella echnicola</i> DSM 19838 <sup>T</sup>	Y	Y	2524614734	GCA_000423065.1	ex.8598	In Figure 2.
<i>Hyunsooleella jejuensis</i> DSM 21035 <sup>T</sup>	Y	Y	2684622907	GCA_900111025.1	ex.16883	In Figure 2.
<i>Ichthyenterobacteriummagnum</i> DSM 26283 <sup>T</sup>	Y	Y	2728369274	N/A	ex.26543	In Figure 2.
<i>Imtechella halotolerans</i> KJ <sup>T</sup>	Y	Y	2534681666	GCA_000260835.1	ex.50	In Figure 2.
<i>Jejuia pallidilutea</i> DSM 21165 <sup>T</sup>	Y	Y	2728369277	N/A	ex.14651	In Figure 2.
<i>Joostella marina</i> DSM 19592 <sup>T</sup>	Y	Y	2509276026	GCA_000260115.1	ex.13730	In Figure 2.
<i>Kordia algicida</i> OT-1 <sup>T</sup>	Y	Y	641380434	GCA_000154725.1	ex.8649	In Figure 2.
<i>Kriegella aquimaris</i> DSM 19886 <sup>T</sup>	Y	Y	2622736525	GCA_900103215.1	ex.13733	In Figure 2.
<i>Leenwenhoekella marinoflava</i> DSM 3653 <sup>T</sup>	Y	Y	2582581269	GCA_900129005.1	ex.8286	In Figure 2.
<i>Mangrovimonas yunxiaonensis</i> LY01	N*	N	2609460310	GCA_000733475.1	ex.24209	In Figure 2, 16S rRNA gene identity of >99% to the type species <i>M. yunxiaonensis</i> LYYY01 <sup>T</sup> .
<i>Maribacter antarcticus</i> DSM 21422 <sup>T</sup>	N	Y	2556921603	GCA_000621125.1	ex.14386	In Figure 2.
<i>Maribacter aquivivus</i> DSM 16478 <sup>T</sup>	N	Y	2622736581	GCA_900142175.1	ex.8681	In Figure 2.
<i>Maribacter arcticus</i> DSM 23546 <sup>T</sup>	N	Y	2595698209	GCA_900167935.1	ex.14049	In Figure 2.
<i>Maribacter dokdonensis</i> DSW-8 <sup>T</sup>	N	Y	2690315862	GCA_001447995.1	ex.9643	In Figure 2.
<i>Maribacter forsetii</i> DSM 18668 <sup>T</sup>	N	Y	2574179767	GCA_000744105.1	ex.14050	In Figure 2.
<i>Maribacter orientalis</i> DSM 16471 <sup>T</sup>	N	Y	2622736438	GCA_900109345.1	ex.8682	In Figure 2.
<i>Maribacter polysiphoniae</i> DSM 23514 <sup>T</sup>	N	Y	2595698208	N/A	ex.11564	In Figure 2.
<b><i>Maribacter sedimenticola</i> DSM 19840<sup>T</sup></b>	Y	Y	2622736538	GCA_900188415.1	ex.8683	In Figure 2.
<i>Maribacter spongicola</i> DSM 25233 <sup>T</sup>	N	Y	2731957517	N/A	ex.26887	In Figure 2.
<i>Maribacter stanieri</i> DSM 19891 <sup>T</sup>	N	Y	2622736542	GCA_900112245.1	ex.15070	In Figure 2.
<i>Maribacter thermophilus</i> HT7-2 <sup>T</sup>	N	Y	2627853760	GCA_001020565.1	ex.26168	In Figure 2.
<i>Maribacter uvicola</i> DSM 15366 <sup>T</sup>	N	Y	2681813549	GCA_900155985.1	ex.8684	In Figure 2.

	<i>Maribacter vaceletii</i> DSM 25230 <sup>T</sup>	N	Y	2734482098	N/A	ex.26888	In Figure 2.
	<i>Meridianimaribacter flavus</i> CGMCC 1.10957 <sup>T</sup>	Y	Y	2667528167	N/A	ex.15067	In Figure 2.
	<i>Mesoflavibacter zeaxanthifaciens</i> DSM 18436 <sup>T</sup>	Y	Y	2524023204	GCA_000422365.1	ex.13742	In Figure 2.
	<i>Mesonina algae</i> DSM 15361 <sup>T</sup>	Y	Y	2593339303	N/A	ex.8169	In Figure 2.
	<i>Moheibacter sediminis</i> CGMCC 1.12708 <sup>T</sup>	Y	Y	2718217654	GCA_900176425.1	ex.25444	In Figure 2.
	<i>Muricauda ruestringensis</i> B1, DSM 13258 <sup>T</sup>	Y	Y	2505679007	GCA_000224085.1	ex.11157	In Figure 2.
	<i>Muricola jejuensis</i> DSM 21206 <sup>T</sup>	Y	Y	2724679820	N/A	ex.19909	In Figure 2.
	<i>Myroides odoratus</i> DSM 2801 <sup>T</sup>	Y	Y	2506520050	GCA_000243275.1	ex.8105	In Figure 2.
	<i>Ochrovirga pacifica</i> S85 <sup>T</sup>	Y	Y	2513237381	GCA_000220525.2	ex.7986	In Figure 2.
	<i>Olleya marilimosa</i> CAM030 <sup>T</sup>	Y	Y	2545824540	GCA_000518485.1	ex.9559	In Figure 2.
	<i>Ornithobacterium rhinotracheale</i> DSM 15997 <sup>T</sup>	Y	Y	2509601001	GCA_000265465.1	ex.8176	In Figure 2.
	<i>Ovenweesia hongkongensis</i> DSM 17368 <sup>T</sup>	Y	Y	2508501098	GCA_000236705.1	ex.9457	In Figure 2.
	<i>Pricia antarctica</i> DSM 23421 <sup>T</sup>	Y	Y	2684622891	GCA_900101815.1	ex.23351	In Figure 2.
	<i>Pseudocobelia thermophila</i> DSM 19858 <sup>T</sup>	Y	Y	2622736519	GCA_900141855.1	ex.14212	In Figure 2.
	<i>Psychroserpens burtonensis</i> DSM 12212 <sup>T</sup>	Y	Y	2524023130	GCA_000425305.1	ex.8186	In Figure 2.
	<i>Pastulibacterium marinum</i> CGMCC 1.12333 <sup>T</sup>	Y	Y	2663762752	GCA_900116665.1	ex.24395	In Figure 2.
	<i>Riemerella anatipestifer</i> A350/72, DSM 15868 <sup>T</sup>	Y	Y	649633092	GCA_000183155.1	ex.2748	In Figure 2.
	<i>Robiginitalea biformata</i> HTCC2501 <sup>T</sup>	Y	Y	646311950	GCA_000024125.1	ex.8817	In Figure 2.
	<i>Salegentibacter salegens</i> ACAM 48 <sup>T</sup>	Y	Y	2698536943	GCA_900142975.1	ex.8112	In Figure 2.
	<i>Salinimicrobium catena</i> CGMCC 1.6101 <sup>T</sup>	Y	Y	2617270763	GCA_900102915.1	ex.11011	In Figure 2.
	<i>Siansivirga zeaxanthifaciens</i> CC-SAMT-1 <sup>T</sup>	Y	Y	2639762969	GCA_000941055.1	ex.23673	In Figure 2.
	<i>Sinomicrobium oceani</i> CGMCC 1.12145 <sup>T</sup>	Y	Y	2596583572	GCA_900119185.1	ex.23925	In Figure 2.
	<i>Soonwooa buanensis</i> DSM 22323 <sup>T</sup>	Y	Y	2595698221	GCA_900167905.1	ex.20120	In Figure 2.
	<i>Spongiobacterium flavum</i> DSM 22638 <sup>T</sup>	Y	Y	2617270824	GCA_900129665.1	ex.23041	In Figure 2.
	<i>Stenothermobacter spongiae</i> JCM 13191 <sup>T</sup>	Y	Y	2751185769	GCA_002117125.1	ex.9862	In Figure 2.
	<i>Tenacibaculum maritimum</i> NBRC 15946 <sup>T</sup>	Y	Y	2568526045	GCA_000509405.1	ex.8258	In Figure 2.
	<i>Ulvibacter litoralis</i> DSM 16195 <sup>T</sup>	Y	Y	2675903215	GCA_900102055.1	ex.8199	In Figure 2.
	<i>Vitellibacter vladivostokensis</i> KMM 3516 <sup>T</sup>	Y	Y	2627853707	GCA_000952855.1	ex.8201	In Figure 2.
	<i>Weeksella virosa</i> 9751, DSM 16922 <sup>T</sup>	Y	Y	650377986	GCA_000189415.1	ex.2748	In Figure 2.
	<i>Wenyngzhuangia marina</i> DSM 100572 <sup>T</sup>	Y	Y	2695421042	GCA_900130035.1	ex.25036	In Figure 2.
	<i>Winogradskyella thalassocola</i> DSM 15363 <sup>T</sup>	Y	Y	2634166307	GCA_900099995.1	ex.8911	In Figure 2.
	<i>Xanthomarina gelatinilytica</i> AK20 <sup>T</sup>	Y	Y	2531839038	GCA_000348685.1	ex.27735	In Figure 2.
	<i>Zeaxanthibacter enoshimensis</i> DSM 18435 <sup>T</sup>	Y	Y	2731639225	N/A	ex.11155	In Figure 2.
	<i>Zhouia amylytica</i> CGMCC 1.6114 <sup>T</sup>	Y	Y	2619618939	GCA_900116365.1	ex.11157	In Figure 2.
	<i>Zobellia galactanivorans</i> Dsj1 <sup>T</sup>	Y	Y	2619619092	N/A	ex.8206	In Figure 2.
	<i>Zunongwangia profunda</i> SM-A8 <sup>T</sup>	Y	Y	646564591	N/A	ex.11189	In Figure 2.
<b>Vibrionaceae</b>							
	<i>Allivibrio fischeri</i> JCM 18803 <sup>T</sup>	Y	Y	2734481910	GCA_001312625.1	ex.2966	In Figure 2.
	<i>Enterovibrio norvegicus</i> DSM 15893 <sup>T</sup>	Y	Y	2599185265	GCA_900115495.1	ex.3021	In Figure 2.
	<i>Grimontia hollisae</i> ATCC 33564 <sup>T</sup>	Y	Y	2718217809	GCA_001558255.1	ex.2975	In Figure 2.
	<i>Photobacterium phosphoreum</i> ANT220	N*	N	2619619266	GCA_000613045.2	ex.3029	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to the type species <i>P. phosphoreum</i> ATCC 11040 <sup>T</sup> .
	<i>Salinivibrio costicola costicola</i> ATCC 33508 <sup>T</sup>	Y	Y	2551306522	GCA_000390145.1	ex.2961	In Figure 2.
	<i>Vibrio albensis</i> ATCC 14547 <sup>T</sup>	N	Y	2690315698	GCA_001471585.1	ex.2951	In Figure 2.
	<i>Vibrio alginolyticus</i> ATCC 17749 <sup>T</sup>	N	Y	2563366623	GCA_000354175.2	ex.2952	In Figure 2.
	<i>Vibrio astriarenae</i> JCM 19233 <sup>T</sup>	N	Y	2617271036	GCA_000753365.1	ex.28118	In Figure 2.
	<i>Vibrio azureus</i> NBRC 104587 <sup>T</sup>	N	Y	2579778795	GCA_000400265.1	ex.14491	In Figure 2.
	<i>Vibrio brasiliensis</i> CAIM 495, LMG 20546 <sup>T</sup>	N	Y	649990028	GCA_000189255.2	ex.2954	In Figure 2.
	<i>Vibrio breoganii</i> IC10	N	N	2551306123	GCA_000280885.2	ex.14487	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. breoganii</i> RD 15.11 <sup>T</sup> .
	<i>Vibrio campbellii</i> CAIM 519 <sup>T</sup>	N	Y	2537561638	GCA_000334195.1	ex.2956	In Figure 2.
	<i>Vibrio caribbeanicus</i> ATCC BAA-2122 <sup>T</sup>	N	Y	649990029	GCA_000165125.2	ex.23233	In Figure 2; Validly-published name is <i>V. caribbeanicus</i> .
	<i>Vibrio casei</i> JB196	N	N	2751185443	GCA_900163805.1	ex.19989	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. casei</i> DSM 22364 <sup>T</sup> .
	<b><i>Vibrio cholerae</i> ATCC 14035<sup>T</sup></b>	Y	Y	2556921658	GCA_000621645.1	ex.2947	In Figure 2.
	<i>Vibrio cidecii</i> 2756-81 <sup>T</sup>	N	Y	2690315852	GCA_001597655.1	ex.29132	In Figure 2.
	<i>Vibrio cincinnatiensis</i> DSM 19608 <sup>T</sup>	N	Y	2568526007	GCA_900167345.1	ex.2959	In Figure 2.
	<i>Vibrio corallilyticus</i> ATCC BAA-450 <sup>T</sup>	N	Y	647000336	GCA_000176135.1	ex.2960	In Figure 2.
	<i>Vibrio crassostreae</i> LGP7 <sup>T</sup>	N	Y	2645727710	GCA_001048535.1	ex.8899	In Figure 2.
	<i>Vibrio cyclotrophicus</i> ZF99	N	N	2548876835	GCA_000256345.2	ex.2962	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. cyclotrophicus</i> LMG 21359 <sup>T</sup> .
	<i>Vibrio diabolicus</i> CNCM 1-1629 <sup>T</sup>	N	Y	2639763116	GCA_001048675.1	ex.2964	In Figure 2.
	<i>Vibrio diazotrophicus</i> NBRC 103148 <sup>T</sup>	N	Y	2609460176	GCA_000740015.1	ex.2965	In Figure 2.
	<i>Vibrio ezuae</i> NBRC 102218 <sup>T</sup>	N	Y	2600255071	GCA_000467185.1	ex.8900	In Figure 2.
	<i>Vibrio fluvialis</i> ATCC 33809 <sup>T</sup>	N	Y	2718218390	GCA_001558415.1	ex.2967	In Figure 2.
	<i>Vibrio furnissii</i> sv. II CIP 102972 <sup>T</sup>	N	Y	647000337	GCA_000176175.1	ex.2969	In Figure 2.

	<i>Vibrio gazogenes</i> DSM 21264 <sup>T</sup>	N	Y	2582581274	GCA_900129185.1	ex.2970	In Figure 2.
	<i>Vibrio halitocoli</i> NBRC 102217 <sup>T</sup>	N	Y	2563367142	GCA_000496695.1	ex.2971	In Figure 2.
	<i>Vibrio hangzhouensis</i> CGMCC 1.7062 <sup>T</sup>	N	Y	2617270906	N/A	ex.14573	In Figure 2.
	<i>Vibrio harveyi</i> NBRC 15634 <sup>T</sup>	N	Y	2636415586	GCA_001263135.1	ex.2972	In Figure 2; Synonyms: <i>V. carchariae</i> Grimes et al. 1985; <i>V. trachuri</i> Iwamoto et al. 1996.
	<i>Vibrio hepatarius</i> DSM 19134 <sup>T</sup>	N	Y	2648501158	GCA_001274785.1	ex.2973	In Figure 2.
	<i>Vibrio hyugaensis</i> 090810a <sup>T</sup>	N	Y	2700989456	GCA_000818435.1	ex.27621	In Figure 2.
	<i>Vibrio ichthyenteri</i> ATCC 700023 <sup>T</sup>	N	Y	2512047077	GCA_000222605.2	ex.2976	In Figure 2.
	<i>Vibrio jasicida</i> CAIM 1864 <sup>T</sup>	N	Y	2571042467	GCA_000400365.1	ex.23251	In Figure 2; Synonym: <i>V. inhibens</i> .
	<i>Vibrio kanaloae</i> SS-149	N	N	2551306055	GCA_000272165.2	ex.2978	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. kanaloae</i> LMG 20539 <sup>T</sup> .
	<i>Vibrio littoralis</i> DSM 17657 <sup>T</sup>	N	Y	2524614821	GCA_000426765.1	ex.11128	In Figure 2.
	<i>Vibrio madracius</i> A354 <sup>T</sup>	N	Y	2600255051	GCA_000695745.1	ex.26110	In Figure 2.
	<i>Vibrio mediterranei</i> NBRC 15635 <sup>T</sup>	N	Y	2731957637	GCA_001591125.1	ex.2982	In Figure 2; Synonym: <i>V. shilonii</i> corrig. Kushmaro et al. 2001
	<i>Vibrio metoecus</i> YB4D01	N	N	2693429564	GCA_001402495.1	ex.25807	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. metoecus</i> OP3H <sup>T</sup> .
	<i>Vibrio metschnikovii</i> CIP 69.14 <sup>T</sup>	N	Y	647000339	GCA_000176155.1	ex.2983	In Figure 2.
	<i>Vibrio mexicanus</i> CAIM 1540 <sup>T</sup>	N	Y	2711768174	GCA_001012815.1	ex.27599	In Figure 2.
	<i>Vibrio mimicus</i> CAIM 602 <sup>T</sup>	N	Y	2531839160	GCA_000338875.1	ex.2984	In Figure 2.
	<i>Vibrio mytili</i> CAIM 528 <sup>T</sup>	N	Y	2630968428	GCA_000830505.1	ex.2985	In Figure 2.
	<i>Vibrio natriegens</i> NBRC 15636 <sup>T</sup>	N	Y	2582580865	GCA_000417905.1	ex.2986	In Figure 2.
	<i>Vibrio navarrensis</i> ATCC 51183 <sup>T</sup>	N	Y	2690315860	GCA_000764325.1	ex.2987	In Figure 2.
	<i>Vibrio neptunus</i> S2394	N	N	2711768159	GCA_000967495.1	ex.2988	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. neptunus</i> LMG 20536 <sup>T</sup> .
	<i>Vibrio nereis</i> NBRC 15637 <sup>T</sup>	N	Y	2675903410	GCA_001591105.1	ex.2989	In Figure 2.
	<i>Vibrio nigripulchritudo</i> ATCC 27043 <sup>T</sup>	N	Y	2512047078	GCA_000222685.2	ex.2990	In Figure 2.
	<i>Vibrio ordalii</i> Schiewe DF3K, ATCC 33509 <sup>T</sup>	N	Y	2513237346	GCA_000257205.1	ex.2991	In Figure 2.
	<i>Vibrio orientalis</i> CIP 102891 <sup>T</sup>	N	Y	2529292738	GCA_000222645.2	ex.2992	In Figure 2.
	<i>Vibrio owensii</i> CAIM 1854 <sup>T</sup>	N	Y	2654587515	GCA_000817815.1	ex.17790	In Figure 2; Synonym: <i>V. communis</i> Chimetto et al. 2011
	<i>Vibrio pacinii</i> DSM 19139 <sup>T</sup>	N	Y	2565956518	GCA_000711795.1	ex.2993	In Figure 2.
	<i>Vibrio parahaemolyticus</i> ATCC 17802 <sup>T</sup>	N	Y	2721755783	GCA_001558495.1	ex.2994	In Figure 2.
	<i>Vibrio ponticus</i> JCM 19238	N	N	2597490163	GCA_000754155.1	ex.8903	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. ponticus</i> CECT 5869 <sup>T</sup> .
	<i>Vibrio porteresiae</i> DSM 19223 <sup>T</sup>	N	Y	2574179732	N/A	ex.13674	In Figure 2.
	<i>Vibrio proteolyticus</i> NBRC 13287 <sup>T</sup>	N	Y	2600255074	GCA_000467125.1	ex.3048	In Figure 2.
	<i>Vibrio renipiscarius</i> DCR 1-4-2 <sup>T</sup>	N	Y	2651869760	GCA_000827885.1	ex.26832	In Figure 2.
	<i>Vibrio rhizosphaerae</i> DSM 18581 <sup>T</sup>	N	Y	2565956521	GCA_000711805.1	ex.11412	In Figure 2.
	<i>Vibrio rotiferianus</i> CAIM 577 <sup>T</sup>	N	Y	2579778863	GCA_000400405.1	ex.9233	In Figure 2.
	<i>Vibrio ruber</i> DSM 16370 <sup>T</sup>	N	Y	2574179726	N/A	ex.3000	In Figure 2.
	<i>Vibrio sagamiensis</i> NBRC 104589 <sup>T</sup>	N	Y	2579779055	GCA_000400425.1	ex.21223	In Figure 2.
	<i>Vibrio scopthalmi</i> LMG 19158 <sup>T</sup>	N	Y	2512047079	GCA_000222585.2	ex.3003	In Figure 2.
	<i>Vibrio shilonii</i> AK1 <sup>T</sup>	N	Y	640963038	GCA_000181535.1	ex.3004	In Figure 2; Synonym of <i>V. mediterranei</i> Pujalte and Garay 1986.
	<i>Vibrio sinaloensis</i> DSM 21326	N	N	649990030	GCA_000189275.2	ex.13675	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. sinaloensis</i> DSM 21333 <sup>T</sup> .
	<i>Vibrio splendidus</i> 0407ZC148	N	N	2551306069	GCA_000272285.1	ex.3005	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. splendidus</i> ATCC 33125 <sup>T</sup> .
	<i>Vibrio tasmaniensis</i> 1F-187	N	N	2551306080	GCA_000272405.2	ex.3009	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. tasmaniensis</i> Carson D39 <sup>T</sup> .
	<i>Vibrio tritonius</i> AM2 <sup>T</sup>	N	Y	2671180348	GCA_001547935.1	ex.30305	In Figure 2.
	<i>Vibrio tubiashii</i> ATCC 19109 <sup>T</sup>	N	Y	2512047081	GCA_000222665.2	ex.3011	In Figure 2.
	<i>Vibrio variabilis</i> JCM 19239	N	N	2609460229	GCA_000755405.1	ex.22724	In Figure 2; ≥ 99% sequence identity in 16S rRNA gene to <i>V. variabilis</i> R-40492 <sup>T</sup> .
	<i>Vibrio vulnificus</i> NBRC 15645 <sup>T</sup>	N	Y	2675903639	GCA_001591065.1	ex.3013	In Figure 2.
	<i>Vibrio xiamenensis</i> CGMCC 1.10228 <sup>T</sup>	N	Y	2617270927	GCA_900100015.1	ex.23260	In Figure 2.
	<i>Vibrio xuii</i> DSM 17185 <sup>T</sup>	N	Y	2740892532	GCA_001274855.1	ex.3015	In Figure 2.
<b>Methanosarcinaceae</b>	<i>Methanococcoides methylans</i> DSM 2657 <sup>T</sup>	Y	Y	2630968972	GCA_000765475.1	ex.241	In Figure 2.
	<i>Methanohalobium evestigatum</i> Z-7303, DSM 3721 <sup>T</sup>	Y	Y	648028039	GCA_000196655.1	ex.244	In Figure 2.
	<i>Methanohalophilus mahii</i> SLP, DSM 5219 <sup>T</sup>	Y	Y	646564550	GCA_000025865.1	ex.246	In Figure 2.
	<i>Methanohalobium tindarius</i> DSM 2278 <sup>T</sup>	Y	Y	2515075008	GCA_000504205.1	ex.252	In Figure 2.
	<i>Methanomethylovorans hollandica</i> DSM 15978 <sup>T</sup>	Y	Y	2509601008	GCA_000328665.1	ex.259	In Figure 2.
	<i>Methanosalsum chilinae</i> WeN5, DSM 4017 <sup>T</sup>	Y	Y	2502790017	GCA_000217995.1	ex.250	In Figure 2.
	<i>Methanosarcina acetivorans</i> C2A <sup>T</sup>	N	Y	638154508	GCA_000007345.1	ex.230	In Figure 2.
	<b><i>Methanosarcina barkeri</i> JCM 10043<sup>T</sup></b>	Y	Y	2684622504	GCA_001316305.1	ex.229	In Figure 2.
	<i>Methanosarcina flavescens</i> E03 2 <sup>T</sup>	N	Y	2651869834	GCA_001304615.1	ex.28151	In Figure 2.
	<i>Methanosarcina horonobensis</i> HB-1 <sup>T</sup>	N	Y	2627854269	GCA_000970285.1	ex.454	In Figure 2.
	<i>Methanosarcina lacustris</i> Z-7289	N	N	2630968805	GCA_000970265.1	ex.233	In Figure 2; ≥ 99% identity in 16S rRNA gene to <i>M. lacustris</i> DSM 13486 <sup>T</sup> .
	<i>Methanosarcina mazei</i> S-6 <sup>T</sup>	N	Y	2627853861	GCA_000970205.1	ex.156	In Figure 2.
	<i>Methanosarcina sicilliae</i> T4/M <sup>T</sup>	N	Y	2651869866	GCA_000970085.1	ex.255	In Figure 2.
	<i>Methanosarcina soligelidi</i> SMA-21 <sup>T</sup>	N	Y	2576861399	GCA_000744315.1	ex.24380	In Figure 2.
	<i>Methanosarcina thermophila</i> TM-1 <sup>T</sup>	N	Y	2636415612	GCA_00069885.1	ex.22774	In Figure 2.

	<i>Methanosarcina vacuolata</i> Z-761 <sup>T</sup>	N	Y	2648501188	GCA_000969905.1	ex.239	In Figure 2.
Thermoproteaceae	<i>Caldivirga maquilgensis</i> IC-167 <sup>T</sup>	Y	Y	641228483	GCA_000018305.1	ex.11	In Figure S1.
	<i>Pyrobaculum aerophilum</i> LM2 <sup>T</sup>	N	Y	638154513	GCA_000007225.1	ex.14	In Figure S1.
	<i>Pyrobaculum arsenaticum</i> PZ6, DSM 13514 <sup>T</sup>	N	Y	640427135	GCA_000016385.1	ex.15	In Figure S1.
	<i>Pyrobaculum caldifontis</i> JCM 11548 <sup>T</sup>	N	Y	640069326	GCA_000015805.1	ex.13561	In Figure S1.
	<b><i>Pyrobaculum islandicum</i> DSM 4184<sup>T</sup></b>	Y	Y	639633053	GCA_000015205.1	ex.13	In Figure S1.
	<i>Pyrobaculum neutrophilum</i> V24Sta <sup>T</sup>	N	Y	641522657	GCA_000019805.1	ex.8	In Figure S1.
	<i>Pyrobaculum oguniense</i> TE7, DSM 13380 <sup>T</sup>	N	Y	2512047039	GCA_000247545.1	ex.17	In Figure S1.
	<i>Thermocladium modestus</i> JCM 10088 <sup>T</sup>	Y	Y	2681812991	GCA_001315925.1	ex.19	In Figure S1.
	<i>Thermoproteus tenax</i> Kra <sup>T</sup>	Y	Y	2511231093	GCA_000253055.1	ex.7	In Figure S1.
	<i>Vulcanisaeta distributa</i> DSM 14429 <sup>T</sup>	Y	Y	648028062	GCA_000148385.1	ex.22	In Figure S1.
	Thiotrichales	<i>Cyctoclasticus pugetii</i> PS-1 <sup>T</sup>	Y	Y	2517572241	GCA_000384415.1	ex.4066
<b><i>Hydrogenovibrio marinus</i> DSM 11271<sup>T</sup></b>		Y	Y	2571042915	GCA_000711315.1	ex.2317	In Figure 3.
<i>Piscirickettsia salmonis</i> LF-89 <sup>T</sup>		Y	Y	2675903545	GCA_000300295.4	ex.2313	In Figure 3.
<i>Thioalkalimicrobium aerophilum</i> AL3 <sup>T</sup>		Y	Y	2506783063	GCA_000227665.3	ex.2324	In Figure 3. Reclassified as <i>Thiomicrospira aerophila</i> AL3 <sup>T</sup> (non-type species of <i>Thiomicrospira</i> ).
<i>Thioalkalimicrobium cyclicum</i> ALM1, DSM 14477 <sup>T</sup>		N	Y	2505679009	GCA_000214825.1	ex.2325	In Figure 3. Reclassified as <i>Thiomicrospira cyclica</i> ALM1, DSM 14477 <sup>T</sup> .
<i>Thioalkalimicrobium microaerophilum</i> ASL8-2 <sup>T</sup>		N	Y	2593339162	GCA_000934765.1	ex.11117	In Figure 3. Reclassified as <i>Thiomicrospira microaerophila</i> ASL8-2 <sup>T</sup> .
<i>Thioalkalimicrobium</i> sp. ALE5		N	N	2593339253	GCA_900112445.1	N/A	In Figure 3.
<i>Thiomicrospira arctica</i> DSM 13458 <sup>T</sup>		N	Y	2522572127	GCA_000381085.1	ex.9363	In Figure 3. Reclassified as <i>Thiomicrospira arctica</i> DSM 13458 <sup>T</sup> .
<i>Thiomicrospira chilensis</i> DSM 12352 <sup>T</sup>		N	Y	2537562247	GCA_000483485.1	ex.2329	In Figure 3. Reclassified as <i>Thiomicrospira chilensis</i> DSM 12352 <sup>T</sup> .
<i>Thiomicrospira crunogena</i> XCL-2		N	N	637000325	GCA_000012605.1	ex.2330	In Figure 3; ≥ 99% sequence identity in 16S rRNA gene to <i>T. crunogena</i> TH-55 <sup>T</sup> . Reclassified as <i>Hydrogenovibrio crunogenus</i> .
<i>Thiomicrospira halophila</i> DSM 15072 <sup>T</sup>		N	Y	2517572244	GCA_000384235.1	ex.11118	In Figure 3. Reclassified as <i>Hydrogenovibrio halophilus</i> DSM 15072 <sup>T</sup> .
<i>Thiomicrospira kuenei</i> DSM 12350 <sup>T</sup>		N	Y	2540341246	GCA_000526715.1	ex.2333	In Figure 3. Reclassified as <i>Hydrogenovibrio kuenei</i> DSM 12350 <sup>T</sup> .
<b><i>Thiomicrospira pelophila</i> DSM 1534<sup>T</sup></b>		Y	Y	2565957139	GCA_000711195.1	ex.2328	In Figure 3. A primary reference in Figure S8.
<i>Thiomicrospira</i> sp. JR2		N	N	2506783050	GCA_002117515.1	N/A	In Figure 3; >99% sequence identity in 16S rRNA gene to <i>T. thermophila</i> 178 <sup>T</sup> .
<b><i>Thiomicrospira</i> sp. Kp2</b>		N	N	2517287021	GCA_000478585.1	N/A	In Figure 3; ≥ 99% sequence identity in 16S rRNA gene to <i>T. frisia</i> JB-A2 <sup>T</sup> . A primary reference in Fig. S7.
<i>Thiomicrospira</i> sp. MA2-6		N	N	2571042363	GCA_000711305.1	N/A	In Figure 3; >99% sequence identity in 16S rRNA gene to <i>T. thermophila</i> 178 <sup>T</sup> .
<i>Thiomicrospira</i> sp. Milos-T1		N	N	2576861815	GCA_000744875.1	N/A	In Figure 3.
<i>Thiomicrospira</i> sp. Milos-T2, DSM 13229		N	N	2561511141	GCA_000702325.1	N/A	In Figure 3.
<i>Thiomicrospira</i> sp. WB1		N	N	2690315833	GCA_001507535.1	N/A	In Figure 3.
<i>Thiomicrospira</i> sp. XS5		N	N	2675903511	GCA_001507555.1	N/A	In Figure 3.
Bacillaceae		<i>Alteribacillus bidogensis</i> IBRC-M10614 <sup>T</sup>	Y	Y	2654587895	GCA_000999745.1	ex.23527
	<i>Amphibacillus xylanus</i> NBRC 15112 <sup>T</sup>	Y	Y	2524023219	GCA_000307165.1	ex.5009	In Figures 4 and 5.
	<i>Anoxybacillus pushchinoensis</i> K1 <sup>T</sup>	Y	Y	2654588147	GCA_900111795.1	ex.50	In Figures 4 and 5.
	<i>Bacillus acidiproducens</i> DSM 23148 <sup>T</sup>	N	Y	2519899659	GCA_000374345.1	ex.14614	In Figures 4 and 5.
	<i>Bacillus aidgensis</i> DSM 18341 <sup>T</sup>	N	Y	2522572065	GCA_000429685.1	ex.13229	In Figures 4 and 5.
	<i>Bacillus akibai</i> JCM 9157 <sup>T</sup>	N	Y	2609459843	GCA_000513135.1	ex.9698	In Figures 4 and 5.
	<i>Bacillus alcalophilus</i> ATCC 27647 <sup>T</sup>	N	Y	2519899572	GCA_000292245.2	ex.4865	In Figures 4 and 5.
	<i>Bacillus alitudinis</i> 41KF2b <sup>T</sup>	N	Y	2576861487	GCA_000691145.1	ex.10147	In Figures 4 and 5.
	<i>Bacillus amyloliquefaciens</i> Campbell F, DSM 7 <sup>T</sup>	N	Y	649633008	N/A	ex.4868	In Figures 4 and 5.
	<i>Bacillus anthracis</i> Vollum <sup>T</sup>	N	Y	645058772	GCA_000167275.1	ex.4871	In Figures 4 and 5.
	<i>Bacillus aquimaris</i> TF12 <sup>T</sup>	N	Y	2731957964	GCA_001648555.1	ex.4872	In Figures 4 and 5.
	<i>Bacillus aryabhatai</i> B8W22 <sup>T</sup>	N	Y	2623620453	GCA_900101665.1	ex.14900	In Figures 4 and 5.
	<i>Bacillus atrophaceus</i> NBRC 15539 <sup>T</sup>	N	Y	2731957673	GCA_001591925.1	ex.4874	In Figures 4 and 5.
	<i>Bacillus aurantiacus</i> DSM 18675 <sup>T</sup>	N	Y	2524614609	GCA_000429705.1	ex.13233	In Figures 4 and 5.
	<i>Bacillus australimaris</i> NH7L_1 <sup>T</sup>	N	Y	2713896803	GCA_001307105.1	ex.28282	In Figures 4 and 5.
	<i>Bacillus azotoformans</i> LMG 9581 <sup>T</sup>	N	Y	2524023181	GCA_000307855.1	ex.4876	In Figures 4 and 5.
	<i>Bacillus badus</i> NBRC 15713 <sup>T</sup>	N	Y	2731957658	GCA_001591605.1	ex.4877	In Figures 4 and 5.
	<i>Bacillus bataviensis</i> LMG 21833 <sup>T</sup>	N	Y	2537561923	GCA_000307875.1	ex.4879	In Figures 4 and 5.
	<i>Bacillus bingmayongensis</i> FJAT-13831 <sup>T</sup>	N	Y	2548877017	GCA_000299035.1	ex.26046	In Figures 4 and 5.
	<i>Bacillus bogoriensis</i> ATCC BAA-922 <sup>T</sup>	N	Y	2556921655	GCA_000621445.1	ex.9336	In Figures 4 and 5.
	<i>Bacillus boroniphilus</i> JCM 21738 <sup>T</sup>	N	Y	2609459902	GCA_000517385.1	ex.10608	In Figures 4 and 5.
	<i>Bacillus butanolivorans</i> DSM 18926 <sup>T</sup>	N	Y	2645727660	GCA_001273755.1	ex.13234	In Figures 4 and 5.
	<i>Bacillus campisalis</i> SA2-6 <sup>T</sup>	N	Y	2630968476	GCA_000986785.1	ex.27400	In Figures 4 and 5.
	<i>Bacillus caseinilyticus</i> SP <sup>T</sup>	N	Y	2675903024	GCA_900107275.1	ex.27058	In Figures 4 and 5.
	<i>Bacillus cecembensis</i> DSM 21993 <sup>T</sup>	N	Y	2744054488	GCA_001439635.1	ex.13235	In Figures 4 and 5.
	<i>Bacillus cellulosilyticus</i> N-4, DSM 2522 <sup>T</sup>	N	Y	649633010	GCA_000177235.2	ex.9697	In Figures 4 and 5.
	<i>Bacillus cereus</i> ATCC 14579 <sup>T</sup>	N	Y	637000017	GCA_000007825.1	ex.4885	In Figures 4 and 5.
	<i>Bacillus chaganorensis</i> DSM 18086 <sup>T</sup>	N	Y	2524614595	GCA_000429725.1	ex.11373	In Figures 4 and 5.
	<i>Bacillus circulans</i> NBRC 13626 <sup>T</sup>	N	Y	2731957657	GCA_001591585.1	ex.4889	In Figures 4 and 5.
	<i>Bacillus coagulans</i> DSM 1 <sup>T</sup>	N	Y	2582581263	GCA_900128875.1	ex.4892	In Figures 4 and 5.



<i>Bacillus coahuilensis</i> m44 <sup>T</sup>	N	Y	642979338	GCA_000171615.1	ex.13236	In Figures 4 and 5.
<i>Bacillus cohnii</i> NBRC 15565 <sup>T</sup>	N	Y	2731957650	GCA_001591425.1	ex.4893	In Figures 4 and 5.
<i>Bacillus cytotoxicus</i> NVH 391-98 <sup>T</sup>	N	Y	640753006	GCA_000017425.1	ex.23711	In Figures 4 and 5.
<i>Bacillus daliensis</i> CGMCC 1.10369 <sup>T</sup>	N	Y	2617270767	GCA_000103955.1	ex.22955	In Figures 4 and 5.
<i>Bacillus dielmoensis</i> FF4 <sup>T</sup>	N	Y	2619619271	GCA_000612665.1	ex.27737	In Figures 4 and 5.
<i>Bacillus drentensis</i> NBRC 102427 <sup>T</sup>	N	Y	2731957651	GCA_001591445.1	ex.4898	In Figures 4 and 5.
<i>Bacillus enclensis</i> SGD-1123 <sup>T</sup>	N	Y	2617270721	GCA_000904975.1	ex.25074	In Figures 4 and 5.
<i>Bacillus endophyticus</i> DSM 13796 <sup>T</sup>	N	Y	2599185264	GCA_000115845.1	ex.4901	In Figures 4 and 5.
<i>Bacillus farraginis</i> DSM 16013 <sup>T</sup>	N	Y	2744054489	GCA_001439965.1	ex.8494	In Figures 4 and 5.
<i>Bacillus fastidiosus</i> NBRC 101226 <sup>T</sup>	N	Y	2731957659	GCA_001591625.1	ex.4902	In Figures 4 and 5.
<i>Bacillus filamentosus</i> SGD-14 <sup>T</sup>	N	Y	2708742534	GCA_000177535.1	ex.26569	In Figures 4 and 5.
<i>Bacillus firmus</i> NBRC 15306 <sup>T</sup>	N	Y	2731957652	GCA_001591465.1	ex.4903	In Figures 4 and 5.
<i>Bacillus flexus</i> NBRC 15715 <sup>T</sup>	N	Y	2731957656	GCA_001591565.1	ex.4904	In Figures 4 and 5.
<i>Bacillus fordii</i> DSM 16014 <sup>T</sup>	N	Y	2517572148	GCA_000374565.1	ex.8495	In Figures 4 and 5.
<i>Bacillus fumarioli</i> NBRC 102428 <sup>T</sup>	N	Y	2731957653	GCA_001591485.1	ex.4906	In Figures 4 and 5.
<i>Bacillus glycinifermentans</i> GO-13 <sup>T</sup>	N	Y	2713897195	GCA_001042475.2	ex.27498	In Figures 4 and 5.
<i>Bacillus gobiensis</i> FIAT-4402 <sup>T</sup>	N	Y	2651869764	GCA_001278705.1	ex.28128	In Figures 4 and 5.
<i>Bacillus halotolerans</i> ATCC 25096 <sup>T</sup>	N	Y	2716884207	GCA_001517105.1	ex.5933	In Figures 4 and 5.
<i>Bacillus hemicellulosilyticus</i> JCM 9152 <sup>T</sup>	N	Y	2609459771	GCA_000513115.1	ex.9696	In Figures 4 and 5.
<i>Bacillus horikoshii</i> DSM 8719 <sup>T</sup>	N	Y	2731957965	GCA_001648575.1	ex.4921	In Figures 4 and 5.
<i>Bacillus indicus</i> LMG 22858 <sup>T</sup>	N	Y	2619619114	GCA_000708755.2	ex.8500	In Figures 4 and 5.
<i>Bacillus invictae</i> DSM 26896 <sup>T</sup>	N	Y	2630968313	GCA_000949525.1	ex.26023	In Figures 4 and 5.
<i>Bacillus jeddahensis</i> JCE <sup>T</sup>	N	Y	2619619236	GCA_000612625.1	ex.27736	In Figures 4 and 5.
<i>Bacillus koreensis</i> DSM 16467 <sup>T</sup>	N	Y	2648501744	GCA_001274935.1	ex.9830	In Figures 4 and 5.
<i>Bacillus kribbensis</i> DSM 17871 <sup>T</sup>	N	Y	2524023229	GCA_000430765.1	ex.11578	In Figures 4 and 5.
<i>Bacillus lentus</i> NBRC 16444 <sup>T</sup>	N	Y	2731957655	GCA_001591545.1	ex.4934	In Figures 4 and 5.
<i>Bacillus licheniformis</i> DSM 13 Goettingen <sup>T</sup>	N	Y	639279303	GCA_000008425.1	ex.4935	In Figures 4 and 5.
<i>Bacillus ligniniphilus</i> L1 <sup>T</sup>	N	Y	2551306660	GCA_000334155.1	ex.9289	In Figures 4 and 5.
<i>Bacillus loiseleuriae</i> FIAT-27997 <sup>T</sup>	N	Y	2636415473	GCA_001183985.1	ex.28826	In Figures 4 and 5.
<i>Bacillus lonarensis</i> 25nlg <sup>T</sup>	N	Y	2671180223	GCA_000906965.1	ex.26465	In Figures 4 and 5.
<i>Bacillus mannanilyticus</i> JCM 10596 <sup>T</sup>	N	Y	2565956590	GCA_000615945.1	ex.9699	In Figures 4 and 5.
<i>Bacillus marisflavi</i> JCM 11544 <sup>T</sup>	N	Y	2645727550	GCA_001274775.1	ex.4940	In Figures 4 and 5.
<i>Bacillus marmarensis</i> DSM 21297 <sup>T</sup>	N	Y	2563367048	GCA_000474275.2	ex.19873	In Figures 4 and 5.
<i>Bacillus massitosenegalensis</i> JC6 <sup>T</sup>	N	Y	2547132161	GCA_000311725.1	ex.24641	In Figures 4 and 5.
<i>Bacillus megaterium</i> ATCC 14581 <sup>T</sup>	N	Y	2623620555	GCA_000113355.1	ex.4942	In Figures 4 and 5.
<i>Bacillus methanolicus</i> PB1 <sup>T</sup>	N	Y	2534681734	GCA_000262755.1	ex.24488	In Figures 4 and 5.
<i>Bacillus methylotrophicus</i> CBMB205 <sup>T</sup>	N	Y	2654588201	GCA_000100225.1	ex.20158	In Figures 4 and 5.
<i>Bacillus mojavensis</i> RO-H-1, KCTC 3706 <sup>T</sup>	N	Y	2579778565	GCA_000507105.1	ex.4945	In Figures 4 and 5.
<i>Bacillus muralis</i> DSM 16288 <sup>T</sup>	N	Y	2744054485	GCA_001439925.1	ex.8502	In Figures 4 and 5.
<i>Bacillus murimartini</i> LMG 21005 <sup>T</sup>	N	Y	2639763118	GCA_001274705.1	ex.11573	In Figures 4 and 5.
<i>Bacillus mycoides</i> ATCC 6462 <sup>T</sup>	N	Y	2623621012	GCA_000832605.1	ex.4947	In Figures 4 and 5.
<i>Bacillus nakamurai</i> NRRL B-41091 <sup>T</sup>	N	Y	2724679182	GCA_001584325.1	ex.28851	In Figures 4 and 5.
<i>Bacillus nanhaiisediminis</i> CGMCC 1.10116 <sup>T</sup>	N	Y	2596583586	N/A	ex.21393	In Figures 4 and 5.
<i>Bacillus ndiopicus</i> FF3 <sup>T</sup>	N	Y	2619619270	GCA_000612805.1	ex.1136	In Figures 4 and 5.
<i>Bacillus niacini</i> NBRC 15566 <sup>T</sup>	N	Y	2675903663	GCA_001591505.1	ex.4951	In Figures 4 and 5.
<i>Bacillus novalis</i> NBRC 102450 <sup>T</sup>	N	Y	2681812999	GCA_001591805.1	ex.4952	In Figures 4 and 5.
<i>Bacillus oceanisediminis</i> CGMCC 1.10115 <sup>T</sup>	N	Y	2596583545	N/A	ex.20259	In Figures 4 and 5.
<i>Bacillus okhensis</i> Kh10-101 <sup>T</sup>	N	Y	2636415927	GCA_000787375.1	ex.10038	In Figures 4 and 5.
<i>Bacillus okuhidensis</i> DSM 13666 <sup>T</sup>	N	Y	2648501690	GCA_001274915.1	ex.4955	In Figures 4 and 5.
<i>Bacillus oleivorans</i> JC228 <sup>T</sup>	N	Y	2740891863	GCA_000207585.1	ex.26617	In Figures 4 and 5.
<i>Bacillus oryzioterrae</i> ZYK <sup>T</sup>	N	Y	2547132184	GCA_000331575.1	ex.29640	In Figures 4 and 5.
<i>Bacillus panaciterrae</i> DSM 19096 <sup>T</sup>	N	Y	2524614636	GCA_000430785.1	ex.10615	In Figures 4 and 5.
<i>Bacillus paralicheniformis</i> KJ-16 <sup>T</sup>	N	Y	2636415507	GCA_001042485.2	ex.27483	In Figures 4 and 5.
<i>Bacillus persicus</i> DSM 25386 <sup>T</sup>	N	Y	2651870116	GCA_000109925.1	ex.23984	In Figures 4 and 5.
<i>Bacillus plakortidis</i> DSM 19153 <sup>T</sup>	N	Y	2645727886	GCA_001420645.1	ex.11574	In Figures 4 and 5.
<i>Bacillus praedii</i> FIAT-25547 <sup>T</sup>	N	Y	2744054486	GCA_001439960.1	ex.30576	In Figures 4 and 5.
<i>Bacillus pseudocaliphilus</i> DSM 8725 <sup>T</sup>	N	Y	2630968651	GCA_001038565.1	ex.4964	In Figures 4 and 5.
<i>Bacillus pseudomyces</i> DSM 12442 <sup>T</sup>	N	Y	643886172	GCA_000161455.1	ex.4966	In Figures 4 and 5.
<i>Bacillus psychrosaccharolyticus</i> ATCC 23296 <sup>T</sup>	N	Y	2547132175	GCA_000305495.2	ex.4969	In Figures 4 and 5.
<i>Bacillus pumilus</i> ATCC 7061 <sup>T</sup>	N	Y	642791616	GCA_000172815.1	ex.4972	In Figures 4 and 5.
<i>Bacillus rhizosphaerae</i> SC-N012 <sup>T</sup>	N	Y	2654588196	GCA_000142675.1	ex.23759	In Figures 4 and 5.

<i>Bacillus safensis</i> FO-36b <sup>T</sup>	N	Y	2576861488	GCA_000691165.1	ex.10225	In Figures 4 and 5.
<i>Bacillus salsus</i> IBRC-M10078 <sup>T</sup>	N	Y	2651870172	GCA_900104555.1	ex.24478	In Figures 4 and 5.
<i>Bacillus selenatarsenatis</i> SF-1 <sup>T</sup>	N	Y	2645727668	GCA_000813125.1	ex.10617	In Figures 4 and 5.
<i>Bacillus selenitireducens</i> MLS10 <sup>T</sup>	N	Y	646564509	GCA_000093085.1	ex.4977	In Figures 4 and 5.
<i>Bacillus shackletoni</i> LMG 18435 <sup>T</sup>	N	Y	2651869806	GCA_001420715.1	ex.4978	In Figures 4 and 5.
<i>Bacillus siamensis</i> KCTC 13613 <sup>T</sup>	N	Y	2548877022	GCA_000262045.1	ex.20151	In Figures 4 and 5.
<i>Bacillus simplex</i> NBRC 15720 <sup>T</sup>	N	Y	2731957667	GCA_001591785.1	ex.4980	In Figures 4 and 5.
<i>Bacillus smithii</i> NBRC 15311 <sup>T</sup>	N	Y	2681812984	GCA_001591985.1	ex.4982	In Figures 4 and 5.
<i>Bacillus solani</i> FJAT-18043 <sup>T</sup>	N	Y	2648501128	GCA_001420595.1	ex.27760	In Figures 4 and 5.
<i>Bacillus soli</i> NBRC 102451 <sup>T</sup>	N	Y	2731957661	GCA_001591665.1	ex.4983	In Figures 4 and 5.
<i>Bacillus sonorensis</i> NBRC 101234, KCTC 13918 <sup>T</sup>	N	Y	2731957676	GCA_001592005.1	ex.4984	In Figures 4 and 5.
<b><i>Bacillus subtilis subtilis</i> 6051-HGW<sup>T</sup></b>	Y	Y	2540341072	GCA_000344745.1	ex.4858	In Figures 4 and 5.
<i>Bacillus thermotolerans</i> SGZ-8 <sup>T</sup>	N	Y	2630968694	GCA_000812025.2	ex.24590	In Figures 4 and 5.
<i>Bacillus thuringiensis</i> sv. berliner ATCC 10792 <sup>T</sup>	N	Y	643886085	GCA_000161615.1	ex.5000	In Figures 4 and 5.
<i>Bacillus trypaerycolica</i> NBRC 102646 <sup>T</sup>	N	Y	2731957677	GCA_001592025.1	ex.15033	In Figures 4 and 5.
<i>Bacillus vallismortis</i> DV1-F-3 <sup>T</sup>	N	Y	2547132131	GCA_000245315.1	ex.5003	In Figures 4 and 5.
<i>Bacillus vietnamensis</i> NBRC 101237 <sup>T</sup>	N	Y	2731957668	GCA_001591825.1	ex.8506	In Figures 4 and 5.
<i>Bacillus vierei</i> LMG 21834 <sup>T</sup>	N	Y	2558860475	GCA_000508325.2	ex.5005	In Figures 4 and 5.
<i>Bacillus wakoensis</i> JCM 9140 <sup>T</sup>	N	Y	2609459807	GCA_000513095.1	ex.9695	In Figures 4 and 5.
<i>Bacillus weihenstephanensis</i> WSBC 10204 <sup>T</sup>	N	Y	2623621013	N/A	ex.5007	In Figures 4 and 5.
<i>Bacillus wiedmannii</i> FSL W8-0169 <sup>T</sup>	N	Y	2728369075	GCA_001583695.1	ex.29222	In Figures 4 and 5.
<i>Bacillus xiamenensis</i> HYC-10 <sup>T</sup>	N	Y	2534681693	GCA_000300535.1	ex.25067	In Figures 4 and 5.
<i>Bacillus zhangzhouensis</i> DW5-4 <sup>T</sup>	N	Y	2585427675	GCA_000715205.1	ex.28281	In Figures 4 and 5.
<i>Caldibacillus debilis</i> DSM 16016 <sup>T</sup>	Y	Y	2515154121	GCA_000383875.1	ex.8586	In Figures 4 and 5.
<i>Dombibacillus robiginosus</i> WS 4628 <sup>T</sup>	Y	Y	2636415875	GCA_000966195.1	ex.24157	In Figures 4 and 5.
<i>Geobacillus stearothermophilus</i> ATCC 12980 <sup>T</sup>	Y	Y	2654587565	GCA_001277805.1	ex.4987	In Figures 4 and 5.
<i>Halalkalibacillus halophilus</i> DSM 18494 <sup>T</sup>	Y	Y	2524023153	GCA_000423105.1	ex.10756	In Figures 4 and 5.
<i>Halobacillus halophilus</i> DSM 2266 <sup>T</sup>	Y	Y	2513237186	N/A	ex.5213	In Figures 4 and 5.
<i>Halolactibacillus halophilus</i> DSM 17073 <sup>T</sup>	Y	Y	2675903232	GCA_900115605.1	ex.9704	In Figures 4 and 5.
<i>Lysinibacillus boronitolerans</i> 10a <sup>T</sup>	Y	Y	2728369705	GCA_001312025.1	ex.10834	In Figures 4 and 5.
<i>Oceanobacillus theyensis</i> HTE831 <sup>T</sup>	Y	Y	637000201	GCA_000011245.1	ex.5050	In Figures 4 and 5.
<i>Paucisalibacillus globulus</i> DSM 18846 <sup>T</sup>	Y	Y	2528768179	GCA_000482485.1	ex.10226	In Figures 4 and 5.
<i>Pelagibacillus alkalitolerans</i> S5 <sup>T</sup>	Y	Y	2671180221	GCA_900096905.1	ex.29018	In Figures 4 and 5.
<i>Piscibacillus salpiscarius</i> JCM 13188 <sup>T</sup>	Y	Y	2675903365	GCA_001311865.1	ex.11209	In Figures 4 and 5.
<i>Pontibacillus chungwhensis</i> BH030062 <sup>T</sup>	Y	Y	2627854003	GCA_000770675.1	ex.8785	In Figures 4 and 5.
<i>Salibacterium halotolerans</i> S7 <sup>T</sup>	Y	Y	2675903022	GCA_900115625.1	ex.27816	In Figures 4 and 5.
<i>Salimicrobium album</i> DSM 20748 <sup>T</sup>	Y	Y	2617270835	GCA_900107115.1	ex.5227	In Figures 4 and 5.
<i>Salipaludibacillus auranticus</i> S9 <sup>T</sup>	Y	Y	2675903018	GCA_900111295.1	0	In Figures 4 and 5.
<i>Salsediminibacteriumhalotolerans</i> CGMCC 1.7654 <sup>T</sup>	Y	Y	2684623023	N/A	ex.23321	In Figures 4 and 5.
<i>Salsuginibacillus kocurii</i> DSM 18087 <sup>T</sup>	Y	Y	2517572235	GCA_000377705.1	ex.11445	In Figures 4 and 5.
<i>Sediminibacillus halophilus</i> CGMCC 1.6199 <sup>T</sup>	Y	Y	2675902964	GCA_900103695.1	ex.13774	In Figures 4 and 5.
<i>Tenuibacillus multivorans</i> CGMCC 1.3442 <sup>T</sup>	Y	Y	2675903005	GCA_900103915.1	ex.8880	In Figures 4 and 5.
<i>Terribacillus saccharophilus</i> DSM 21619 <sup>T</sup>	Y	Y	2636416060	GCA_900110015.1	ex.11099	In Figures 4 and 5.
<i>Thalassobacillus devorans</i> MSP14	N*	N	2585427714	GCA_000496835.1	ex.9570	In Figures 4 and 5; >99% identity in 16S rRNA gene to the type species <i>T. devorans</i> G-19.1 <sup>T</sup> .
<i>Virgibacillus pantothenicus</i> DSM 26 <sup>T</sup>	Y	Y	2654587738	GCA_001189575.1	ex.4958	In Figures 4 and 5.
<i>Viridibacillus arvi</i> DSM 16317 <sup>T</sup>	Y	Y	2651869790	GCA_001274945.1	ex.8492	In Figures 4 and 5.
<b>Microbacteriaceae</b>						
<i>Agreia bicolorata</i> VKM Ac-1804 <sup>T</sup>	Y	Y	2630968525	GCA_000938265.1	ex.6071	
<i>Amnibacterium kyonggiense</i> DSM 24782 <sup>T</sup>	Y	Y	2734482167	N/A	ex.20355	
<i>Clavibacter michiganensis</i> VKM Ac-1403 <sup>T</sup>	Y	Y	2708742539	GCA_900168345.1	ex.6240	
<i>Compostimonas savonensis</i> DSM 25625 <sup>T</sup>	Y	Y	2731639183	GCA_002797855.1	ex.23384	
<i>Curtobacterium ammoniigenes</i> NBRC 101786 <sup>T</sup>	Y	Y	2690315830	GCA_001571045.1	ex.11217	
<b><i>Curtobacterium citreum</i> NS330</b>	N*	N	2731957856	GCA_001475775.1	ex.5928	>99% similar to the type species <i>C. citreum</i> DSM 20528 <sup>T</sup>
<i>Curtobacterium flaccumfaciens</i> UCD-AKU	N	N	2547132189	GCA_000349565.1	ex.6218	>99% similar to <i>C. flaccumfaciens</i> LMG 3645 <sup>T</sup>
<i>Curtobacterium luteum</i> NS184	N	N	2731957857	GCA_001475545.1	ex.5939	>99% similar to <i>C. luteum</i> DSM 20542 <sup>T</sup>
<i>Curtobacterium pusillum</i> AA3	N	N	2751185788	GCA_002025645.1	ex.5946	>99% similar to <i>C. pusillum</i> AA3 <sup>T</sup>
<i>Diaminobutyricimonas aerilata</i> DSM 27393 <sup>T</sup>	Y	Y	2731639227	GCA_002797715.1	ex.23851	
<i>Frigoribacterium</i> sp. Lea84	N	N	2643221770	GCA_001421865.1	N/A	>99% similar to <i>F. faeni</i> 801 <sup>T</sup>
<i>Glaciibacter superstes</i> DSM 21135 <sup>T</sup>	Y	Y	2524614536	GCA_000421145.1	ex.14122	
<i>Glaciibacterians tibetensis</i> CGMCC 1.12484 <sup>T</sup>	Y	Y	2718217681	N/A	ex.25099	
<i>Gulosibacter molinivorax</i> DSM 13485 <sup>T</sup>	Y	Y	2524614660	GCA_000425685.1	ex.8600	
<i>Herbiconiux ginsengi</i> CGMCC 4.3491 <sup>T</sup>	Y	Y	2667527392	GCA_900107435.1	ex.10821	

	<i>Humibacter albus</i> DSM 18994 <sup>T</sup>	Y	Y	2523533583	GCA_000421825.1	ex.13728	
	<i>Labeledella gwakjiensis</i> DSM 21548 <sup>T</sup>	Y	Y	2734482166	N/A	ex.11476	
	<i>Leifsonia aquatica</i> ATCC 14665 <sup>T</sup>	Y	Y	2602041580	GCA_000469485.1	ex.6131	
	<i>Microterricola viridarii</i> DSM 21772 <sup>T</sup>	Y	Y	2634166341	GCA_900104895.1	ex.13745	
	<i>Mycetocola saprophilus</i> NRRL B-24119 <sup>T</sup>	Y	Y	2751185700	GCA_000718085.1	ex.6142	
	<i>Okibacterium frutillarum</i> VKM Ac-2059 <sup>T</sup>	Y	Y	2708742390	GCA_900167575.1	ex.6146	
	<i>Plantibacter flavus</i> VKM Ac-2504 <sup>T</sup>	Y	Y	2708742471	GCA_900177615.1	ex.6148	
	<i>Pseudoclavibacter helvolus</i> G8	N*	N	2713896982	GCA_900014995.1	ex.8792	>99% similar to the type species <i>P. helvolus</i> DSM 20419 <sup>T</sup>
	<i>Rathayibacter rathayi</i> VKM Ac-1601 <sup>T</sup>	Y	Y	2716884894	GCA_900215645.1	ex.6260	
	<i>Rhodoluna laticola</i> MWH-Ta8 <sup>T</sup>	Y	Y	2504643007	GCA_000699505.1	ex.14703	
	<i>Salinibacterium amurskyense</i> DSM 16400 <sup>T</sup>	Y	Y	2728369736	GCA_002797685.1	ex.6159	
	<i>Yonghaparkia</i> sp. Root332	N	N	2643221635	GCA_001425665.1	N/A	>99% similar to <i>Y. alkaliphila</i> KSL-113 <sup>T</sup>
Desulfuromonadales	<i>Desulfuromonas acetoxidans</i> DSM 684 <sup>T</sup>	Y	Y	638341078	GCA_000167355.1	ex.3621	
	<i>Desulfuromusa kysingii</i> DSM 7343 <sup>T</sup>	Y	Y	2599185196	GCA_900107645.1	ex.3627	
	<i>Geokallibacter ferrihydriticus</i> DSM 17813 <sup>T</sup>	Y	Y	2599185148	GCA_900103065.1	ex.10736	
	<i>Geobacter anodireducens</i> SD-1 <sup>T</sup>	N	Y	2687453499	GCA_001628815.1	ex.25881	
	<i>Geobacter argillaceus</i> ATCC BAA-1139 <sup>T</sup>	N	Y	2596583694	N/A	ex.10737	
	<i>Geobacter bemidjensis</i> Bem, DSM 16622 <sup>T</sup>	N	Y	642555129	GCA_000020725.1	ex.9537	
	<i>Geobacter bremensis</i> R1	N	N	2524023206	GCA_000426865.1	ex.3642	>99% identical to <i>G. bremensis</i> Dfr1 <sup>T</sup>
	<i>Geobacter daltonii</i> FRC-32 <sup>T</sup>	N	Y	643348554	GCA_000022265.1	ex.17822	
	<i>Geobacter lovleyi</i> SZ <sup>T</sup>	N	Y	642555130	GCA_000020385.1	ex.14597	
	<b>Geobacter metallireducens</b> GS-15 <sup>T</sup>	Y	Y	637000119	GCA_000012925.1	ex.3641	
	<i>Geobacter pickeringii</i> G13 <sup>T</sup>	N	Y	2608642258	GCA_000817955.1	ex.10738	
	<i>Geobacter soli</i> GSS01 <sup>T</sup>	N	Y	2648501453	GCA_000816575.1	ex.26007	
	<i>Geobacter sulfurreducens</i> PCA <sup>T</sup>	N	Y	637000120	GCA_000007985.2	ex.3647	
	<i>Geobacter thiogenes</i> ATCC BAA-34 <sup>T</sup>	N	Y	2585428117	GCA_900167465.1	ex.3649	
	<i>Geobacter toluenoxydans</i> JCM 15764 <sup>T</sup>	N	Y	2728369703	GCA_001311985.1	ex.17814	
	<i>Geobacter uranireducens</i> Rf4 <sup>T</sup>	N	Y	640427115	GCA_000016745.1	ex.13330	
	<i>Geopsychrobacter electrophilus</i> DSM 16401 <sup>T</sup>	Y	Y	2522572047	GCA_000384395.1	ex.9282	
	<i>Malonomonas rubra</i> DSM 5091 <sup>T</sup>	Y	Y	2585428155	GCA_900142125.1	ex.3631	
	Spirochaetaceae	<i>Alkalispirochaeta alkalica</i> DSM 8900 <sup>T</sup>	Y	Y	2515154091	GCA_000373545.1	ex.7800
<i>Leptospira alexanderi</i> sv. Manhao 3 L 60 <sup>T</sup>		N	Y	2541047155	GCA_000243815.3	ex.7895	
<i>Leptospira alstoni</i> sv. Sichuan 79601 <sup>T</sup>		N	Y	2541047043	GCA_000347175.1	ex.24128	
<i>Leptospira biflexa</i> sv. Patoc Patoc 1 (Paris) <sup>T</sup>		N	Y	642555137	GCA_000017685.1	ex.7896	
<i>Leptospira borgpetersenii</i> DSM 21538		N	N	2728369472	N/A	ex.7897	
<i>Leptospira broomii</i> S399 <sup>T</sup>		N	Y	2541047153	GCA_000243715.3	ex.9958	>99% identical to <i>L. borgpetersenii</i> Veldrat Batavia 46 <sup>T</sup>
<i>Leptospira fatnei</i> sv. Hurstbridge BUT 6 <sup>T</sup>		N	Y	2528311141	GCA_000306235.2	ex.7898	
<i>Leptospira inadai</i> sv. Lyme 10 <sup>T</sup>		N	Y	2541047026	GCA_000243675.3	ex.7899	
<b>Leptospira interrogans</b> ATCC43642 <sup>T</sup>		Y	Y	2681812812	GCA_900156205.1	ex.26170	
<i>Leptospira kirschneri</i> sv. Cynopteri 3522 C <sup>T</sup>		N	Y	2531839702	GCA_000243695.3	ex.7900	
<i>Leptospira kmetyi</i> sv. Malaysia Bejo-Iso9 <sup>T</sup>		N	Y	2541047154	GCA_000243735.3	ex.14216	
<i>Leptospira licerastae</i> ATCC BAA-1110 <sup>T</sup>		N	Y	2545555867	GCA_000526875.1	ex.13393	
<i>Leptospira meyeri</i> DSM 21537 <sup>T</sup>		N	Y	2731957520	N/A	ex.7901	
<i>Leptospira noguchii</i> sv. Panama CZ214 <sup>T</sup>		N	Y	2693429687	GCA_000306255.2	ex.7902	
<i>Leptospira santarosai</i> sv. Shermani LT 821 <sup>T</sup>		N	Y	2537562171	N/A	ex.7904	
<i>Leptospira terpstrae</i> sv. Hualin LT 11-33 <sup>T</sup>		N	Y	2529293154	GCA_000332495.2	ex.24130	
<i>Leptospira vanthielii</i> sv. Holland Waz Holland <sup>T</sup>		N	Y	2537561589	GCA_000332455.2	ex.24129	
<i>Leptospira weilii</i> LNT 1194		N	N	2548876967	GCA_000246635.2	ex.7905	
<i>Leptospira wolbachii</i> sv. Codice CDC <sup>T</sup>		N	Y	2531839092	GCA_000332515.2	ex.7906	>99% identical to <i>L. weilii</i> Celledoni <sup>T</sup>
<i>Leptospira wolffii</i> Khorat-H2 <sup>T</sup>		N	Y	2534682290	GCA_000306115.2	ex.13394	
<i>Leptospira yanagawae</i> sv. Saopaulo <sup>T</sup>		N	Y	2537561927	GCA_000332475.2	ex.24131	
<i>Salinispira pacifica</i> L21-RPul-D2 <sup>T</sup>		Y	Y	2556921662	GCA_000507245.1	ex.26673	
<i>Saprosira grandis</i> Lewin <sup>T</sup>		Y	Y	2512564032	GCA_000250635.1	ex.8240	
<i>Sediminispirochaeta bajacalforniensis</i> DSM 16054 <sup>T</sup>	Y	Y	2518645589	GCA_000378205.1	ex.8854		
<i>Sphaerochaeta globosa</i> Buddy <sup>T</sup>	Y	Y	650377973	GCA_000190435.1	ex.22802		
Planctomycetaceae	<i>Blastopirellula marina</i> SH 106 <sup>T</sup>	Y	Y	638341020	GCA_000153105.1	ex.7761	
	<i>Gimesia maris</i> DSM 8797 <sup>T</sup>	Y	Y	640963032	GCA_000181475.1	ex.7753	
	<i>Mariniblastus fucicola</i> FC18 <sup>T</sup>	Y	Y	2675903475	GCA_001642875.1	ex.29804	
	<i>Pirellula staleyii</i> DSM 6068 <sup>T</sup>	Y	Y	646311948	GCA_000025185.1	ex.7760	
	<i>Planctomicrobium piriforme</i> DSM 26348 <sup>T</sup>	Y	Y	2675903691	GCA_900113665.1	ex.26713	
	<i>Planctopirus limnophila</i> DSM 3776 <sup>T</sup>	Y	Y	646564559	GCA_000092105.1	ex.7752	

	<i>Rhodopirellula baltica</i> SH 1 <sup>T</sup>	Y	Y	637000236	GCA_000196115.1	ex.8813	
	<i>Rhodopirellula lusitana</i> DSM 25457 <sup>T</sup>	N	Y	2724679732	N/A	ex.25582	
	<i>Rhodopirellula</i> sp. SWK7 <sup>T</sup>	N	Y	2534681625	GCA_000346425.1	N/A	>99% identical to <i>R. rubra</i> LF2 <sup>T</sup> .
	<i>Roseimariima ulvae</i> DSM 25454 <sup>T</sup>	Y	Y	2690315921	GCA_0001642915.1	ex.26306	
	<i>Rubinsphaera brasiliensis</i> DSM 5305 <sup>T</sup>	Y	Y	649633083	GCA_000165715.3	ex.7750	
	<i>Rubripirellula obstinata</i> LF1 <sup>T</sup>	Y	Y	2731957971	GCA_0001642955.1	ex.26308	
	<i>Schlesneria paludicola</i> DSM 18645 <sup>T</sup>	Y	Y	2548877001	GCA_000255665.1	ex.11517	
	<i>Thermogutta terrifontis</i> R1 <sup>T</sup>	Y	Y	2757320777	GCA_002277955.1	ex.1506	
	<i>Zavarzinella formosa</i> DSM 19928 <sup>T</sup>	Y	Y	2548877000	GCA_000255705.1	ex.13802	
	<i>Fusobacteriales</i>						
	<i>Cetobacterium ceti</i> ATCC 700028 <sup>T</sup>	Y	Y	2585428148	GCA_900167275.1	ex.8395	
	<i>Fusobacterium gonidiaformans</i> ATCC 25563 <sup>T</sup>	N	Y	645951804	GCA_000158835.2	ex.8355	
	<i>Fusobacterium mortiferum</i> ATCC 9817	N	N	646206254	GCA_000158195.2	ex.8356	>99% identical to <i>F. mortiferum</i> DSM 19809 <sup>T</sup>
	<i>Fusobacterium naviforme</i> ATCC 25832 <sup>T</sup>	N	Y	2588253511	N/A	ex.8357	80% similar to other type strains of <i>Fusobacterium</i> spp.
	<i>Fusobacterium necrophorum</i> ATCC 25286 <sup>T</sup>	N	Y	2597490366	GCA_900104395.1	ex.8359	
	<b><i>Fusobacterium nucleatum</i> ATCC 25586<sup>T</sup></b>	Y	Y	637000117	GCA_000007325.1	ex.8348	
	<i>Fusobacterium perfoetens</i> ATCC 29250 <sup>T</sup>	N	Y	2571042013	GCA_000622245.1	ex.8361	
	<i>Fusobacterium periodonticum</i> ATCC 33693 <sup>T</sup>	N	Y	645951848	GCA_000160475.1	ex.8362	
	<i>Fusobacterium russii</i> ATCC 25533 <sup>T</sup>	N	Y	2519899634	GCA_000381725.1	ex.8367	
	<i>Fusobacterium ulcerans</i> ATCC 49185 <sup>T</sup>	N	Y	2562617154	GCA_000158315.2	ex.8370	
	<i>Fusobacterium varium</i> ATCC 27725	N	N	646206275	GCA_000159915.2	ex.8371	>99% identical to <i>F. varium</i> JCM 6320 <sup>T</sup>
	<i>Ilyobacter polytropus</i> CuHBu1, DSM 2926 <sup>T</sup>	Y	Y	649633056	GCA_000165505.1	ex.8373	
	<i>Leptotrichia buccalis</i> C-1013-b, DSM 1135 <sup>T</sup>	Y	Y	644736384	GCA_000023905.1	ex.8378	
	<i>Oceanivirga salmonicida</i> AVG2115 <sup>T</sup>	Y	Y	2744054529	GCA_0001517915.1	ex.28717	
	<i>Psychriiobacter atlanticus</i> DSM 19335 <sup>T</sup>	Y	Y	2524614854	GCA_000426625.1	ex.14154	
	<i>Sebadella termitidis</i> ATCC 33386 <sup>T</sup>	Y	Y	646311952	GCA_000024405.1	ex.7989	
	<i>Sneathia sanguinegens</i> CCUG41628 <sup>T</sup>	Y	Y	2728369525	GCA_0001517935.1	ex.8392	
	<i>Streptobacillus felis</i> 13100054 <sup>T</sup>	N	Y	2681813364	GCA_0001559775.1	ex.26902	
	<i>Streptobacillus hongkongensis</i> DSM 26322 <sup>T</sup>	N	Y	2724679071	GCA_0001559795.1	ex.25764	
	<b><i>Streptobacillus nonififormis</i> 9901, DSM 12112<sup>T</sup></b>	Y	Y	646311956	GCA_000024565.1	ex.8390	
	<i>Streptobacillus notomytis</i> AHL 370-1 <sup>T</sup>	N	Y	2713897256	GCA_0001612575.1	ex.27898	
<i>Thermales</i>							
	<i>Marinithermus hydrothermalis</i> T1 DSM 14884 <sup>T</sup>	Y	Y	2504643006	GCA_000195335.1	ex.532	
	<i>Meiothermus ruber</i> 21 DSM 1279 <sup>T</sup>	Y	Y	646564545	GCA_000024425.1	0	
	<i>Oceanithermus profundus</i> S06 DSM 14977 <sup>T</sup>	Y	Y	649633077	GCA_000183745.1	ex.540	
	<i>Thermus amyloliquefaciens</i> YIM 77409 <sup>T</sup>	N	Y	2579778517	GCA_000744885.1	ex.27065	
	<i>Thermus antranikianii</i> DSM 12462 <sup>T</sup>	N	Y	2522572193	GCA_000423905.1	ex.521	
	<b><i>Thermus aquaticus</i> YT-1<sup>T</sup></b>	Y	Y	2648501156	GCA_0001280255.1	ex.520	
	<i>Thermus arciformis</i> CGMCC 1.6992 <sup>T</sup>	N	Y	2617270932	GCA_900102145.1	ex.17910	
	<i>Thermus brockianus</i>	N	N	2502171156	GCA_0001880325.1	ex.522	>99% identical to <i>T. brockianus</i> YS038 <sup>T</sup>
	<i>Thermus calditerrae</i> YIM 77777	N	N	2582581225	GCA_000745065.1	ex.25134	>99% identical to <i>T. calditerrae</i> YIM 77925 <sup>T</sup>
	<i>Thermus filiformis</i> ATCC 43280 <sup>T</sup>	N	Y	2639763100	GCA_000771745.2	ex.524	
	<i>Thermus igniterrae</i> ATCC 700962 <sup>T</sup>	N	Y	2515154172	GCA_000376265.1	ex.525	
	<i>Thermus islandicus</i> DSM 21543 <sup>T</sup>	N	Y	2524614852	GCA_000421625.1	ex.14940	
	<i>Thermus oshimai</i> DSM 12092 <sup>T</sup>	N	Y	2515154080	GCA_000373145.1	ex.526	
	<i>Thermus scotoductus</i> DSM 8553 <sup>T</sup>	N	Y	2518645614	GCA_000381045.1	ex.528	
	<i>Thermus tengchongensis</i> YIM 77401	N	N	2574179781	GCA_000744175.1	ex.24275	>99% identical to <i>T. tengchongensis</i> YIM 77924 <sup>T</sup>
	<i>Thermus thermophilus</i> HB8 <sup>T</sup>	N	Y	637000323	GCA_000091545.1	ex.530	
<i>Enterobacteriaceae</i>							
	<i>Arsenophonus nasoniae</i> DSM 15247 <sup>T</sup>	Y	Y	2524614872	GCA_000429565.1	ex.3103	
	<i>Brenneria salicis</i> Dye EX2, ATCC 15712 <sup>T</sup>	Y	Y	2506783044	N/A	ex.3194	
	<i>Buchnera aphidicola</i> Sg <sup>T</sup>	Y	Y	637000045	GCA_000007365.1	ex.3113	
	<i>Budvicia aquatica</i> DSM 5075, ATCC 35567 <sup>T</sup>	Y	Y	2513237113	GCA_000427805.1	ex.3115	
	<i>Buttiauxella agrestis</i> CDC 1176-81, ATCC 33320 <sup>T</sup>	Y	Y	2588253793	GCA_000735355.1	ex.3117	
	<i>Cedecea davisae</i> 005, DSM 4568 <sup>T</sup>	Y	Y	2541046972	GCA_000412335.2	ex.3127	
	<i>Citrobacter freundii</i> ATCC 8090 <sup>T</sup>	Y	Y	2519899575	GCA_000312465.1	ex.3131	
	<i>Cronobacter sakazakii</i> ATCC 29544 <sup>T</sup>	Y	Y	2627854230	GCA_000982825.1	ex.3163	
	<i>Dickeya chrysanthemi</i> NCPPB 402 <sup>T</sup>	Y	Y	2558860220	GCA_000406105.1	ex.3179	
	<i>Edwardsiella tarda</i> ATCC 15947 <sup>T</sup>	Y	Y	2547132207	GCA_000264805.1	ex.3144	
	<i>Enterobacillus tribolii</i> DSM 103736 <sup>T</sup>	Y	Y	2756170277	N/A	ex.26865	
	<i>Enterobacter cloacae cloacae</i> ATCC 13047 <sup>T</sup>	Y	Y	646564529	N/A	ex.3149	
	<i>Erwinia amylovora</i> NBRC 12687 <sup>T</sup>	Y	Y	2588253839	GCA_000696075.1	ex.3166	
	<i>Escherichia coli</i> NCTC9001 <sup>T</sup>	Y	Y	2687453512	N/A	ex.3093	
	<i>Ewingella americana</i> C.024, ATCC 33852 <sup>T</sup>	Y	Y	2588253786	GCA_000735345.1	ex.3199	

	<i>Franconibacter helveticus</i> LMG 23732 <sup>T</sup>	Y	Y	2617271155	GCA_000463115.2	ex.10709	
	<i>Hafnia alvei</i> Stuart 32011, ATCC 13337 <sup>T</sup>	Y	Y	2588253788	GCA_000735375.1	ex.3201	
	<i>Klebsiella pneumoniaepneumoniae</i> ATCC 13883 <sup>T</sup>	Y	Y	2671180284	GCA_000788015.1	ex.3203	
	<i>Kluyvera ascorbata</i> ATCC 33433 <sup>T</sup>	Y	Y	2588253795	GCA_000735365.1	ex.3216	
	<i>Leclercia adcarboxylata</i> Leclerc 1783, ATCC 23216 <sup>T</sup>	Y	Y	2588253789	GCA_000735515.1	ex.3094	
	<i>Leminorella grimonii</i> DSM 5078 <sup>T</sup>	Y	Y	2524614760	GCA_000439085.1	ex.3223	
	<i>Lonsdalea quercina quercina</i> ATCC 29281 <sup>T</sup>	Y	Y	2597490349	GCA_900107885.1	ex.3191	
	<i>Moellerella wisconsensis</i> ATCC 35017 <sup>T</sup>	Y	Y	2636415824	GCA_001294465.1	ex.3226	
	<i>Morganella morgani morgani</i> NBRC 3848 <sup>T</sup>	Y	Y	2675903361	GCA_001598895.1	ex.3228	
	<i>Obesumbacterium proteus</i> DSM 2777 <sup>T</sup>	Y	Y	2687453374	GCA_001586165.1	ex.3231	
	<i>Pantoea agglomerans</i> NBRC 102470 <sup>T</sup>	Y	Y	2731957702	GCA_001598475.1	ex.3151	
	<i>Pectobacterium carotovorum carotovorum</i> ICMP 5702 <sup>T</sup>	Y	Y	2630968984	GCA_001039055.1	ex.3174	
	<i>Phaseolibacter flectens</i> ATCC 12775 <sup>T</sup>	Y	Y	2545555808	GCA_000518745.1	ex.2605	
	<i>Photorhabdus luminescens luminescens</i> DSM 3368 <sup>T</sup>	Y	Y	2648501375	GCA_001083805.1	ex.3350	
	<i>Plesiomonas shigelloides</i> GN7	N*	N	2636415754	GCA_000813415.1	ex.3264	>99% identical to the type species <i>P. shigelloides</i> NCTC 10360 <sup>T</sup>
	<i>Pragia fontium</i> DSM 5563 <sup>T</sup>	Y	Y	2620240200	GCA_900112475.1	ex.3266	
	<i>Proteus vulgaris</i> CSUR P1867	N*	N	2690315780	GCA_001049955.1	ex.3268	>99% identical to the type species <i>P. vulgaris</i> ATCC 29905 <sup>T</sup>
	<i>Providencia alcalifaciens</i> sv. 019:H2 DSM 30120 <sup>T</sup>	Y	Y	642979317	GCA_000173415.1	ex.3270	
	<i>Rahnella aquatilis</i> ATCC 33071 <sup>T</sup>	Y	Y	2588253797	GCA_000735505.1	ex.3284	
	<i>Raoultella planticola</i> ATCC 33531 <sup>T</sup>	Y	Y	2588253798	GCA_000735435.1	ex.3211	
	<i>Ronciella chamberiensis</i> 130333 <sup>T</sup>	Y	Y	2639763055	GCA_000951135.1	ex.26740	
	<i>Salmonella enterica enterica</i> sv. typhimurium ATCC 13311	N*	N	2597490268	N/A	ex.3311	>99% identical to the type species <i>S. enterica</i> LT2 <sup>T</sup>
	<i>Serratia marcescensmarcescens</i> BS 303, ATCC 13880 <sup>T</sup>	Y	Y	2588253790	GCA_000735445.1	ex.3315	
	<i>Shigella dysenteriae</i> S6554	N*	N	2627853868	GCA_000815515.1	ex.3330	>99% identical to the type species <i>S. dysenteriae</i> ATCC 13313 <sup>T</sup>
	<i>Tatumella ptyseos</i> ATCC 33301 <sup>T</sup>	Y	Y	2588253799	GCA_000735525.1	ex.3337	
	<i>Thorsella anophelis</i> DSM 18579 <sup>T</sup>	Y	Y	2599185261	GCA_900111395.1	ex.9887	
	<i>Trabulsiella guamensis</i> ATCC 49490 <sup>T</sup>	Y	Y	2588253800	GCA_000734965.1	ex.3339	
	<i>Wigglesworthia glossinidia</i> endosymbiont of <i>Glossina morsitans</i>	Y	Y	2511231135	GCA_000008885.1	ex.3341	
	<i>Xenorhabdus bovienii</i> felidae Florida	N	N	2617271263	GCA_000736675.1	N/A	>99% identical to <i>X. bovienii</i> DSM 4766 <sup>T</sup>
	<i>Xenorhabdus cabanillasii</i> JM26	N	N	2636416088	GCA_000531755.1	ex.11141	>99% identical to <i>X. cabanillasii</i> USTX62 <sup>T</sup>
	<i>Xenorhabdus doucetiae</i> DSM 17909 <sup>T</sup>	N	Y	2599185204	N/A	ex.11142	
	<i>Xenorhabdus hominickii</i> ANU1	N	N	2718218031	GCA_001721185.1	ex.11144	>99% identical to <i>X. hominickii</i> KE01 <sup>T</sup>
	<i>Xenorhabdus japonica</i> DSM 16522 <sup>T</sup>	N	Y	2684622846	GCA_900115195.1	ex.3349	
	<i>Xenorhabdus khoisanae</i> MCB	N	N	2639762749	GCA_001037465.1	ex.24491	>99% identical to <i>X. khoisanae</i> SF87 <sup>T</sup>
	<i>Xenorhabdus koppenhoferi</i> DSM 18168 <sup>T</sup>	N	Y	2684622845	GCA_900116635.1	ex.11145	
	<i>Xenorhabdus mauleonii</i> DSM 17908 <sup>T</sup>	N	Y	2684622849	GCA_900113945.1	ex.11147	
	<b><i>Xenorhabdus nematophila</i> ATCC 19061<sup>T</sup></b>	Y	Y	649633108	GCA_000252955.1	ex.3343	
	<i>Xenorhabdus poinarii</i> G6	N	N	2627853985	GCA_000968175.1	ex.3346	>99% identical to <i>X. poinarii</i> DSM 4768 <sup>T</sup>
	<i>Xenorhabdus szentirmai</i> DSM 16338 <sup>T</sup>	N	Y	2597490185	GCA_000531455.1	ex.9485	
	<i>Yersinia pestis pestis</i> 231(708)	N*	N	2609460169	GCA_000734805.1	ex.3353	>99% identical to the type species <i>Y. pestis</i> NCTC 5923 <sup>T</sup>
	<i>Yokenella regensburgeri</i> F. Haas DC-1, ATCC 49455 <sup>T</sup>	Y	Y	2588253791	GCA_000735455.1	ex.3368	
<b><i>Haloferacaceae</i></b>							
	<i>Halobellus clavatus</i> CGMCC 1.10118 <sup>T</sup>	Y	Y	2617270777	GCA_900107195.1	ex.22693	
	<i>Haloferax alexandrinus</i> JCM 10717 <sup>T</sup>	N	Y	2554235481	GCA_000336735.1	ex.307	
	<i>Haloferax denitrificans</i> S1 <sup>T</sup>	N	Y	2508501014	GCA_000747585.1	ex.2429	
	<i>Haloferax elongans</i> ATCC BAA-1513 <sup>T</sup>	N	Y	2554235478	GCA_000336755.1	ex.13342	
	<i>Haloferax gibbonsii</i> ATCC 33959 <sup>T</sup>	N	Y	2554235501	GCA_000336775.1	ex.309	
	<i>Haloferax larsenii</i> JCM 13917 <sup>T</sup>	N	Y	2554235500	GCA_000336955.1	ex.10764	
	<i>Haloferax lucentense</i> DSM 14919 <sup>T</sup>	N	Y	2554235494	GCA_000336795.1	ex.310	
	<i>Haloferax mediterranei</i> R-4 <sup>T</sup>	N	Y	2508501019	N/A	ex.279	
	<i>Haloferax mucosum</i> PA12 <sup>T</sup>	N	Y	2529293244	GCA_000337815.1	ex.13343	
	<i>Haloferax prahovense</i> TL6 <sup>T</sup>	N	Y	2554235499	GCA_000336815.1	ex.10765	
	<i>Haloferax sulfurifontis</i> M6 <sup>T</sup>	N	Y	2508501015	GCA_001722335.1	ex.8603	
	<b><i>Haloferax volcanii</i> DS2<sup>T</sup></b>	Y	Y	646564536	GCA_000025685.1	ex.13688	
	<i>Halogeometricum borinquense</i> PR3 <sup>T</sup>	Y	Y	2537561588	GCA_000337855.1	ex.313	
	<i>Halogramum rubrum</i> CGMCC 1.7738 <sup>T</sup>	Y	Y	2619618990	GCA_900114455.1	ex.19287	
	<i>Haloparvum sedimenti</i> DYS4 <sup>T</sup>	Y	Y	2681813379	GCA_001462205.1	ex.28705	
	<i>Halopelagius inordinatus</i> CGMCC 1.7739 <sup>T</sup>	Y	Y	2617270917	GCA_900113245.1	ex.20075	
	<i>Haloplamus natans</i> DSM 17983 <sup>T</sup>	Y	Y	2517287030	GCA_000427685.1	ex.10775	
	<i>Haloprofundus marisrubri</i> SB9 <sup>T</sup>	Y	Y	2690315683	GCA_001469955.1	ex.29482	
	<i>Halopseudomonas walshii</i> C23 <sup>T</sup>	Y	Y	651053028	GCA_000480495.1	ex.10776	