

Supplemental Table 1: Accession numbers referenced in this study

Near neighbors

Sequence	GenBank Accession Number
" <i>Candidatus</i> Alysiosphaera europeae"	AY428766.1
<i>Anaerolinea thermophila</i> UNI-1	NR_074383.1
<i>Azospirillum palatum</i> ww 10	EU747318.1
<i>Balneola vulgaris</i> 13IX/A01/164	AY576749.1
<i>Bradyrhizobiaceae</i> bacterium PTG4-2	EU603455.1
<i>Chelatococcus</i> sp. J-9.1	FR774565.1
<i>Coralimargarita akajimensis</i>	AB266750.1
Filamentous alpha proteobacterium BIO53	AY590699.1
<i>Geminicoccus roseus</i> DSM 18922	AM403172.1
<i>Gracilimonas tropica</i> CL-CB462	EF988655.1
<i>Halarchaeum acidiphilum</i> MH1-52-1	AB371717.2
<i>Oceanicola nanhaiensis</i> 8-PW8-OH1	HQ425690.2
<i>Phaeobacter caeruleus</i> UDC410	HM031996.1
<i>Ponticaulis koreensis</i> DSM 19734	NR_044608.1
<i>Rhodobaca barguzinensis</i> VKM B-2406	EF554833.1
<i>Rhodobacter</i> sp. EL-50	AJ605746.2
<i>Rhodobacter sphaeroides</i> 2.4.1	NR_074171.1
<i>Rhodopirellula baltica</i> SH 1	NR_043384.1
<i>Rhodopirellula</i> sp. SM48	FJ624354.1
<i>Rhodopseudomonas palustris</i> B9	KC162163.1
<i>Rhodovulum marinum</i> JA217	AM696301.1
<i>Rhodovulum sulfidophilum</i> JA198	AM696694.1
<i>Roseibacterium elongatum</i>	FN667962.1
<i>Rubrimonas</i> sp. SL014B-80A1	GU125652.3
<i>Salinarimonas</i> sp. SL014B-41A4	GU125653.2
<i>Thioalkalivibrio nitratireducens</i> ALEN 2	AY079010.1
<i>Thiohalocapsa halophila</i> DSM 6210T	AM903380.1
Uncultured <i>Bacteroidetes</i> bacterium clone SL1.23	JX240555.1
Uncultured <i>Chloroflexi</i> bacterium clone Alchichica_AL67_2_1B_105	JN825481.1
Uncultured <i>Chromatiales</i> bacterium clone TDNP_Wbc97_128_1_33	FJ517010.1
Uncultured <i>Planctomycetales</i> bacterium clone Alchichica_AL52_2_1B_172	JN825619.1
Uncultured <i>Planctomycetales</i> bacterium clone TDNP_Bbc97_235_1_60	FJ516780.1

Hot Lake clones

Sequence	GenBank Accession Number
HL7711_P1B1	KC896650.1
HL7711_P1F1	KC896651.1
HL7711_P1A2	KC896652.1
HL7711_P1B2	KC896653.1
HL7711_P1G2	KC896654.1
HL7711_P1C3	KC896655.1
HL7711_P1E3	KC896656.1
HL7711_P1B5	KC896657.1
HL7711_P1E5	KC896658.1
HL7711_P1H6	KC896659.1
HL7711_P1E7	KC896660.1
HL7711_P1E9	KC896661.1
HL7711_P1E10	KC896662.1
HL7711_P2A2	KC896663.1
HL7711_P2B2	KC896664.1
HL7711_P2C2	KC896665.1
HL7711_P2E2	KC896666.1
HL7711_P2F8	KC896667.1
HL7711_P2H4	KC896668.1
HL7711_P2H5	KC896669.1
HL7711_P2G11	KC896670.1
HL7711_P3A1	KC896671.1
HL7711_P3D1	KC896672.1
HL7711_P3C3	KC896673.1
HL7711_P3B4	KC896674.1
HL7711_P3G5	KC896675.1
HL7711_P3F6	KC896676.1
HL7711_P3F7	KC896677.1
HL7711_P3C8	KC896678.1
HL7711_P3G11	KC896679.1
HL7711_P3B12	KC896680.1
HL7711_P4H1	KC896681.1
HL7711_P4G3	KC896682.1
HL7711_P4E4	KC896683.1
HL7711_P4B6	KC896684.1
HL7711_P4A7	KC896685.1
HL7711_P4F7	KC896686.1
HL7711_P4G11	KC896687.1
HL7711_P5A1	KC896688.1