

Table S1. Observed (O) and expected (E) quantities of intergenic IS elements in fully sequenced archaeal chromosomes that have too few ISs for statistical analysis.

	Neighboring gene orientation (NGO)					
	→→, ←←		→←		←→	
	O	E	O	E	O	E
<b>CRENARCHAEOTA</b>						
<i>Acidianus hospitalis</i> W1	10	10.3	7	3.4	4	7.3
<i>Acidilobus saccharovorans</i> 345-15	2	1.1	0	0.2	0	0.7
<i>Aeropyrum camini</i> SY1 = JCM 12091	1	0.5	0	0.1	0	0.3
<i>Aeropyrum pernix</i> K1	0	0.0	0	0.0	0	0.0
<i>Caldisphaera lagunensis</i> DSM 15908	0	0.0	0	0.0	0	0.0
<i>Caldivirga maquilingensis</i> IC-167	0	0.0	0	0.0	0	0.0
<i>Desulfurococcus fermentans</i> DSM 16532	1	0.6	0	0.1	0	0.3
<i>Desulfurococcus kamchatkensis</i> 1221n	5	5.5	3	2.1	3	3.4
<i>Desulfurococcus mucosus</i> DSM 2162	3	2.2	1	0.5	0	1.2
<i>Fervidicoccus fontis</i> Kam940	1	0.5	0	0.2	0	0.3
<i>Hyperthermus butylicus</i> DSM 5456	0	0.0	0	0.0	0	0.0
<i>Ignicoccus hospitalis</i> KIN4/I	0	0.5	0	0.1	1	0.4
<i>Ignisphaera aggregans</i> DSM 17230	1	1.0	0	0.3	1	0.6
<i>Metallosphaera cuprina</i> Ar-4	1	1.0	1	0.3	0	0.7
<i>Metallosphaera sedula</i> DSM 5348	1	2.0	2	0.5	1	1.5
<i>Pyrobaculum aerophilum</i> str. IM2	0	0.0	0	0.0	0	0.0
<i>Pyrobaculum arsenaticum</i> DSM 13514	0	0.0	0	0.0	0	0.0
<i>Pyrobaculum calidifontis</i> JCM 11548	0	1.1	1	0.3	1	0.6
<i>Pyrobaculum islandicum</i> DSM 4184	4	3.5	0	1.2	3	2.3
<i>Pyrobaculum oguniense</i> TE7	0	0.0	0	0.0	0	0.0
<i>Pyrobaculum</i> sp. 1860	4	2.0	0	0.7	0	1.3
<i>Pyrolobus fumarii</i> 1A	1	0.5	0	0.1	0	0.4
<i>Staphylothermus hellenicus</i> DSM 12710	2	1.5	1	0.5	0	1.0
<i>Staphylothermus marinus</i> F1	4	3.3	1	0.8	1	1.9
<i>Sulfolobus acidocaldarius</i> DSM 639	3	3.5	3	1.0	1	2.4
<i>S. acidocaldarius</i> N8	4	3.2	3	1.5	0	2.3
<i>S. acidocaldarius</i> Ron12/I	5	3.2	2	1.5	0	2.3
<i>S. acidocaldarius</i> SUSAZ	6	4.0	0	1.0	1	2.1
<i>Sulfolobus islandicus</i> LAL14/1	6	8.3	3	2.7	7	5.1
<i>S. islandicus</i> L.S.2.15	13	14.0	11	3.4	4	10.6
<i>S. islandicus</i> M.14.25	10	9.1	8	2.5	1	7.4
<i>S. islandicus</i> M.16.27	13	12.4	11	3.5	2	10.1
<i>S. islandicus</i> Y.N.15.51	16	19.4	13	4.4	8	13.2
<i>Thermofilum pendens</i> Hrk 5	0	1.1	2	0.2	0	0.7
<i>Thermofilum</i> sp. 1910b	0	1.1	2	0.3	0	0.7
<i>Thermogladius cellulolyticus</i> 1633	4	3.5	1	0.8	1	1.6
<i>Thermoproteus neutrophilus</i> V24Sta	2	1.2	0	0.3	0	0.6
<i>Thermoproteus tenax</i> Kra 1	2	1.1	0	0.3	0	0.6
<i>Thermoproteus uzoniensis</i> 768-20	1	0.5	0	0.1	0	0.4
<i>Thermosphaera aggregans</i> DSM 11486	2	0.9	0	0.3	0	0.8

<i>Vulcanisaeta distributa</i> DSM 14429	0	0.5	1	0.1	0	0.4
<i>Vulcanisaeta moutnovskia</i> 768-28	4	3.1	2	1.1	0	1.7
EURYARCHAEOTA						
<i>Aciduliprofundum boonei</i> T469	7	5.3	0	1.3	5	5.4
<i>Aciduliprofundum</i> sp. MAR08-339	3	2.4	2	0.4	0	2.1
<i>Archaeoglobus fulgidus</i> DSM 4304	6	5.4	1	0.9	2	2.7
<i>Archaeoglobus profundus</i> DSM 5631	8	4.3	0	1.2	1	3.5
<i>Archaeoglobus sulfaticallidus</i> PM70-1	17	13.4	3	3.3	5	8.3
<i>Archaeoglobus veneficus</i> SNP6	13	14.3	8	3.1	5	8.6
<i>Ferroglobus placidus</i> DSM 10642	8	9.2	2	2.5	8	6.2
<i>Halalkalicoccus jeotgali</i> B3	1	3.2	4	0.7	1	2.1
<i>Haloarcula hispanica</i> ATCC 33960	7	8.6	6	2.3	3	5.1
<i>H. hispanica</i> N601	6	7.4	4	1.9	4	4.7
<i>Haloarcula marismortui</i> ATCC 43049	11	7.2	2	2.5	1	4.3
<i>Halobacterium</i> sp. NRC-1	7	6.9	1	1.9	5	4.3
<i>Haloferax mediterranei</i> ATCC 33500	6	6.2	4	1.6	1	3.2
<i>Haloferax volcanii</i> DS2	12	8.3	4	3.1	0	4.7
<i>Halogeometricum borinquense</i> DSM 11551	9	9.1	5	2.7	4	6.2
<i>Halomicrobium mukohataei</i> DSM 12286	8	9.6	6	2.9	4	5.5
<i>Halopiger xanaduensis</i> SH-6	0	1.0	1	0.3	1	0.7
<i>Haloquadratum walsbyi</i> C23	13	12.2	9	6.0	4	7.8
<i>Halorhabdus utahensis</i> DSM 12940	5	6.4	4	1.8	3	3.8
<i>Halorubrum lacusprofundi</i> ATCC 49239	7	8.2	5	2.7	4	5.1
<i>Haloterrigena turkmenica</i> DSM 5511	2	2.6	3	0.9	0	1.5
<i>Halovivax ruber</i> XH-70	2	3.6	0	1.1	5	2.3
<i>Methanobacterium</i> sp. AL-21	2	1.1	0	0.2	0	0.6
<i>Methanobacterium</i> sp. SWAN-1	3	1.8	0	0.4	0	0.8
<i>Methanobrevibacter ruminantium</i> M1	11	8.8	0	2.1	3	3.1
<i>Methanobrevibacter smithii</i> ATCC 35061	13	12.6	4	2.4	5	7.0
<i>Methanobrevibacter</i> sp. AbM4	8	9.4	7	3.1	1	3.5
<i>Methanocaldococcus fervens</i> AG86	1	2.5	2	0.4	1	1.1
<i>Methanocaldococcus infernus</i> ME	1	1.1	1	0.2	0	0.7
<i>Methanocaldococcus jannaschii</i> DSM 2661	6	5.3	0	1.2	3	2.4
<i>Methanocaldococcus vulcanius</i> M7	3	1.8	0	0.3	0	0.9
<i>Methanocaldococcus</i> sp. FS406-22	7	6.3	3	1.5	1	3.1
<i>Methanocella conradii</i> HZ254	9	8.8	3	2.3	5	5.9
<i>Methanocella paludicola</i> SANAE	9	8.3	5	3.6	3	5.1
<i>Methanocella</i> sp. HZ254	9	8.6	3	2.5	5	5.9
<i>Methanococcus aeolicus</i> Nankai-3	4	2.5	0	0.4	0	1.1
<i>Methanococcus maripaludis</i> C5	2	3.6	4	0.7	0	1.7
<i>M. maripaludis</i> C6	6	4.3	1	0.7	0	2.0
<i>M. maripaludis</i> C7	5	4.3	2	0.7	0	2.0
<i>M. maripaludis</i> str. S2	4	3.6	1	0.6	1	1.8
<i>M. maripaludis</i> X1	5	5.7	3	1.5	2	2.9
<i>Methanococcus vannielii</i> SB	4	3.2	2	0.9	0	1.9
<i>Methanococcus voltae</i> A3	3	4.8	5	0.9	0	2.3
<i>Methanocorpusculum labreanum</i> Z	1	3.4	3	1.2	2	1.4
<i>Methanoculleus marisnigri</i> JR1	5	3.5	1	1.5	1	2.0
<i>Methanohalobium evestigatum</i> Z-7303	21	25.1	10	4.5	12	13.4

<i>Methanohalophilus mahii</i> DSM 5219	9	6.2	3	2.0	1	4.8
<i>Methanomassiliicoccus</i> sp. Mx1-Issoire	7	4.8	1	1.2	1	3.0
<i>Methanomethylovorans hollandica</i> DSM 15978	10	9.9	5	2.0	3	6.1
<i>Methanoplanus limicola</i> DSM 2279	10	9.0	3	2.5	3	4.5
<i>Methanoplanus petrolearius</i> DSM 11571	5	6.1	4	2.1	2	2.9
<i>Methanopyrus kandleri</i> AV19	1	1.0	1	0.4	0	0.5
<i>Methanoregula boonei</i> 6A8	5	3.2	1	1.3	0	1.5
<i>Methanoregula formicicum</i> SMSP	5	5.2	5	2.1	0	2.7
<i>Methanosaeta harundinacea</i> 6Ac	16	12.7	3	3.8	4	6.4
<i>Methanosaeta thermophila</i> PT	8	5.5	1	2.4	3	4.1
<i>Methanosalsum zhilinae</i> DSM 4017	7	8.2	3	1.5	4	4.3
<i>Methanosphaera stadtmanae</i> DSM 3091	4	2.7	1	0.7	0	1.6
<i>Methanosphaerula palustris</i> E1-9c	3	4.3	4	1.5	1	2.2
<i>Methanothermobacter marburgensis</i> Marburg	2	1.6	1	0.4	0	1.0
<i>Methanothermobacter thermoautotrophicus</i> str. Delta H 2	2	1.1	0	0.5	0	0.5
<i>Methanothermococcus okinawensis</i> IH1	2	1.9	0	0.4	1	0.8
<i>Methanothermus fervidus</i> DSM 2088	2	1.5	0	0.4	1	1.1
<i>Methanotorris igneus</i> Kol 5	3	1.8	0	0.4	0	0.7
<i>Natrialba magadii</i> ATCC 43099	16	12.0	3	4.2	5	7.8
<i>Natrinema</i> sp. J7-2	8	10.4	6	3.6	5	5.0
<i>Natronococcus occultus</i> SP4	10	10.1	6	2.5	3	6.4
<i>Natronomonas pharaonis</i> DSM 2160	13	12.4	6	3.6	6	9.0
<i>Picrophilus torridus</i> DSM 9790	1	0.6	0	0.1	0	0.4
<i>Pyrococcus furiosus</i> DSM 3638	21	21.8	3	3.9	13	11.3
<i>Pyrococcus horikoshii</i> OT3 DNA	6	3.3	1	1.8	0	1.9
<i>Pyrococcus yayanosii</i> CH1	8	7.1	2	1.2	2	3.7
<i>Pyrococcus</i> sp. NA2	7	3.5	1	4.5	1	1.0
<i>Pyrococcus</i> sp. ST04	5	3.2	1	0.6	0	2.2
<i>Salinarchaeum</i> sp. Harcht-Bsk1	2	2.1	2	0.6	0	1.3
<i>Thermococcus barophilus</i> MP	9	6.5	1	0.8	1	3.7
<i>Thermococcus gammatolerans</i> EJ3	3	4.8	2	0.8	3	2.4
<i>Thermococcus kodakarensis</i> KOD1	5	5.7	1	1.4	5	3.9
<i>Thermococcus onnurineus</i> NA1	5	3.3	1	1.0	0	1.8
<i>Thermococcus sibiricus</i> MM 739	7	6.7	3	1.4	2	3.9
<i>Thermococcus</i> sp. CL1	4	4.7	3	0.7	1	2.6
<i>Thermococcus</i> sp. 4557	5	3.4	1	0.8	0	1.9
<i>Thermoplasma acidophilum</i> DSM 1728	5	4.5	1	1.3	3	3.1
uncultured marine group II euryarchaeote	1	0.6	0	0.1	0	0.3
<b>KORARCHAEOTA</b>						
<i>Candidatus</i> Korarchaeum cryptofilum OPF8	2	1.7	0	0.3	1	1.0
<b>NANOARCHAEOTA</b>						
<i>Nanoarchaeum equitans</i> Kin4-M	0	0.0	0	0.0	0	0.0
<b>THAUMARCHAEOTA</b>						
<i>Candidatus</i> Nitrosoarchaeum limnia SFB1	2	2.1	0	0.5	2	1.5
<i>Candidatus</i> Nitrosopumilus koreensis AR1	0	1.1	0	0.3	2	0.7
<i>Candidatus</i> Nitrosopumilus sp. AR2	0	0.0	0	0.0	0	0.0
<i>Cenarchaeum symbiosum</i> A	1	2.4	0	0.5	3	1.2
<i>Nitrosopumilus maritimus</i> SCM1	2	1.6	0	0.4	1	1.0

Table S2. Quantities of IS element loci eliminated from the analysis for various reasons, all ultimately because the ISs do not neighbor genes annotated as functional, native archaeal genes (see Materials and Methods for details).

	Neighboring gene(s) annotated as:			
	disrupted	pseudogene	non-consecutive	phage
<b>CRENARCHAEOTA</b>				
<i>Acidianus hospitalis</i> W1	0	0	2	0
<i>Acidilobus saccharovorans</i> 345-15	0	0	0	0
<i>Aeropyrum camini</i> SY1 = JCM 12091	0	0	0	0
<i>Aeropyrum pernix</i> K1	0	0	0	0
<i>Caldisphaera lagunensis</i> DSM 15908	0	0	0	0
<i>Caldivirga maquilingensis</i> IC-167	0	0	0	0
<i>Desulfurococcus fermentans</i> DSM 16532	0	0	1	0
<i>Desulfurococcus kamchatkensis</i> 1221n	0	0	0	0
<i>Desulfurococcus mucosus</i> DSM 2162	0	0	3	0
<i>Fervidicoccus fontis</i> Kam940	0	0	1	0
<i>Hyperthermus butylicus</i> DSM 5456	0	0	1	0
<i>Ignicoccus hospitalis</i> KIN4/I	0	0	0	0
<i>Ignisphaera aggregans</i> DSM 17230	0	0	2	0
<i>Metallosphaera cuprina</i> Ar-4	0	0	0	0
<i>Metallosphaera sedula</i> DSM 5348	0	0	1	0
<i>Pyrobaculum aerophilum</i> str. IM2	0	0	0	0
<i>Pyrobaculum arsenaticum</i> DSM 13514	0	0	0	0
<i>Pyrobaculum calidifontis</i> JCM 11548	0	0	0	0
<i>Pyrobaculum islandicum</i> DSM 4184	0	0	0	0
<i>Pyrobaculum oguniense</i> TE7	0	0	0	0
<i>Pyrobaculum</i> sp. 1860	0	0	0	0
<i>Pyrolobus fumarii</i> 1A	0	0	0	0
<i>Staphylothermus hellenicus</i> DSM 12710	0	0	3	0
<i>Staphylothermus marinus</i> F1	0	0	1	0
<i>Sulfolobus acidocaldarius</i> DSM 639	0	0	0	0
<i>S. acidocaldarius</i> N8	0	0	0	0

<i>S. acidocaldarius</i> Ron12/I	0	0	0	0
<i>S. acidocaldarius</i> SUSAZ	0	0	1	0
<i>Sulfolobus islandicus</i> HVE10/4	0	0	8	0
<i>S. islandicus</i> LAL14/1	0	0	2	0
<i>S. islandicus</i> L.D.8.5	0	0	27	0
<i>S. islandicus</i> L.S.2.15	0	0	24	0
<i>S. islandicus</i> M.14.25	0	0	28	0
<i>S. islandicus</i> M.16.4	0	0	11	0
<i>S. islandicus</i> M.16.27	0	0	24	0
<i>S. islandicus</i> REY15A	0	0	10	0
<i>S. islandicus</i> Y.G.57.14	0	0	25	0
<i>S. islandicus</i> Y.N.15.51	0	0	74	0
<i>Sulfolobus solfataricus</i> 98/2	0	0	71	0
<i>S. solfataricus</i> P2	2	0	62	0
<i>Sulfolobus tokodaii</i> str. 7	0	0	9	0
<i>Thermofilum pendens</i> Hrk 5	0	0	0	0
<i>Thermofilum</i> sp. 1910b	0	0	0	0
<i>Thermogladius cellulolyticus</i> 1633	0	0	0	0
<i>Thermoproteus neutrophilus</i> V24Sta	0	0	1	0
<i>Thermoproteus tenax</i> Kra 1	0	0	1	0
<i>Thermoproteus uzoniensis</i> 768-20	0	0	0	0
<i>Thermosphaera aggregans</i> DSM 11486	0	0	0	0
<i>Vulcanisaeta distributa</i> DSM 14429	0	0	0	0
<i>Vulcanisaeta moutnovskia</i> 768-28	0	0	1	0
EURYARCHAEOTA				
<i>Aciduliprofundum boonei</i> T469	0	0	1	0
<i>Aciduliprofundum</i> sp. MAR08-339	0	0	1	0
<i>Archaeoglobus fulgidus</i> DSM 4304	0	0	1	0
<i>Archaeoglobus profundus</i> DSM 5631	0	0	0	0
<i>Archaeoglobus sulfaticallidus</i> PM70-1	0	0	1	0
<i>Archaeoglobus veneficus</i> SNP6	0	0	6	0
<i>Ferroglobus placidus</i> DSM 10642	0	0	3	0
<i>Ferroplasma acidarmanus</i> fer1	9	0	0	0
<i>Halalkalicoccus jeotgali</i> B3	0	0	0	0

<i>Haloarcula hispanica</i> ATCC 33960	0	0	1	2
<i>H. hispanica</i> N601	0	0	1	0
<i>Haloarcula marismortui</i> ATCC 43049	0	0	8	0
<i>Halobacterium</i> sp. NRC-1	0	0	8	0
<i>Haloferax mediterranei</i> ATCC 33500	0	0	0	0
<i>Haloferax volcanii</i> DS2	0	0	7	1
<i>Halogeometricum borinquense</i> DSM 11551	0	0	1	0
<i>Halomicrobium mukohataei</i> DSM 12286	0	0	6	0
<i>Halopiger xanaduensis</i> SH-6	0	0	0	0
<i>Haloquadratum walsbyi</i> C23	0	8	24	0
<i>H. walsbyi</i> DSM 16790	1	0	12	0
<i>Halorhabdus utahensis</i> DSM 12940	0	0	1	0
<i>Halorubrum lacusprofundi</i> ATCC 49239	0	0	7	0
<i>Haloterrigena turkmenica</i> DSM 5511	0	0	1	0
<i>Halovivax ruber</i> XH-70	0	0	0	0
<i>Methanobacterium</i> sp. AL-21	0	0	0	0
<i>Methanobacterium</i> sp. SWAN-1	0	0	1	0
<i>Methanobrevibacter ruminantium</i> M1	0	0	0	0
<i>Methanobrevibacter smithii</i> ATCC 35061	0	0	0	0
<i>Methanobrevibacter</i> sp. AbM4	0	0	1	0
<i>Methanocaldococcus fervens</i> AG86	0	0	0	0
<i>Methanocaldococcus infernus</i> ME	0	0	0	0
<i>Methanocaldococcus jannaschii</i> DSM 2661	0	0	1	0
<i>Methanocaldococcus vulcanius</i> M7	0	0	2	0
<i>Methanocaldococcus</i> sp. FS406-22	0	0	1	0
<i>Methanocella conradii</i> HZ254	0	0	1	0
<i>Methanocella paludicola</i> SANAE	1	0	0	0
<i>Methanocella</i> sp. HZ254	0	0	1	0
<i>Methanococcoides burtonii</i> DSM 6242	0	0	27	0
<i>Methanococcus aeolicus</i> Nankai-3	0	0	2	0
<i>Methanococcus maripaludis</i> C5	0	0	0	1
<i>M. maripaludis</i> C6	0	0	0	0
<i>M. maripaludis</i> C7	0	0	0	0
<i>M. maripaludis</i> str. S2	0	0	0	0

<i>M. maripaludis</i> X1	0	0	0	0
<i>Methanococcus vannielii</i> SB	0	0	0	0
<i>Methanococcus voltae</i> A3	0	0	0	0
<i>Methanocorpusculum labreanum</i> Z	0	0	0	0
<i>Methanoculleus marisnigri</i> JR1	0	0	0	0
<i>Methanohalobium evestigatum</i> Z-7303	0	0	21	0
<i>Methanohalophilus mahii</i> DSM 5219	0	0	0	0
<i>Methanolobus psychrophilus</i> R15	0	0	0	0
<i>Methanomassiliicoccus</i> sp. Mx1-Issoire	0	0	0	0
<i>Methanomethylovorans hollandica</i> DSM 15978	0	0	5	0
<i>Methanoplanus limicola</i> DSM 2279	0	0	8	0
<i>Methanoplanus petrolearius</i> DSM 11571	0	0	2	0
<i>Methanopyrus kandleri</i> AV19	0	0	0	0
<i>Methanoregula boonei</i> 6A8	0	0	0	1
<i>Methanoregula formicicum</i> SMSP	0	0	0	0
<i>Methanosaeta concilii</i> GP6	5	1	49	0
<i>Methanosaeta harundinacea</i> 6Ac	0	0	0	0
<i>Methanosaeta thermophila</i> PT	0	0	2	0
<i>Methanosalsum zhilinae</i> DSM 4017	0	0	4	0
<i>Methanosarcina acetivorans</i> str. C2A	0	0	14	0
<i>Methanosarcina barkeri</i> str. Fusaro	0	0	13	0
<i>Methanosarcina mazei</i> str. Goe1	0	0	0	0
<i>M. mazei</i> Tuc01	0	0	7	0
<i>Methanosphaera stadtmanae</i> DSM 3091	0	0	1	0
<i>Methanosphaerula palustris</i> E1-9c	0	0	6	0
<i>Methanospirillum hungatei</i> JF-1	0	0	14	0
<i>Methanothermobacter marburgensis</i> Marburg	0	0	0	0
<i>Methanothermobacter thermoautotrophicus</i> str. Delta H	0	0	0	0
<i>Methanothermococcus okinawensis</i> IH1	0	0	1	0
<i>Methanothermus fervidus</i> DSM 2088	0	0	0	0
<i>Methanotorris igneus</i> Kol 5	0	0	0	0
<i>Natrialba magadii</i> ATCC 43099	0	0	3	0
<i>Natrinema</i> sp. J7-2	0	0	5	0
<i>Natronococcus occultus</i> SP4	0	0	5	0

<i>Natronomonas moolapensis</i> 8.8.11	0	0	24	0
<i>Natronomonas pharaonis</i> DSM 2160	4	0	3	0
<i>Picrophilus torridus</i> DSM 9790	0	0	0	0
<i>Pyrococcus furiosus</i> COM1	0	0	1	0
<i>P. furiosus</i> DSM 3638	0	0	0	0
<i>Pyrococcus horikoshii</i> OT3 DNA	0	0	0	0
<i>Pyrococcus yayanosii</i> CH1	0	0	0	0
<i>Pyrococcus</i> sp. NA2	0	0	0	0
<i>Pyrococcus</i> sp. ST04	0	0	0	0
<i>Salinarchaeum</i> sp. Harcht-Bsk1	0	0	0	0
<i>Thermococcus barophilus</i> MP	0	0	0	0
<i>Thermococcus gammatolerans</i> EJ3	0	0	0	0
<i>Thermococcus kodakarensis</i> KOD1	1	0	0	0
<i>Thermococcus onnurineus</i> NA1	0	0	0	0
<i>Thermococcus sibiricus</i> MM 739	0	0	0	0
<i>Thermococcus</i> sp. CL1	0	0	0	0
<i>Thermococcus</i> sp. 4557	0	0	0	0
<i>Thermoplasma acidophilum</i> DSM 1728	0	0	0	0
uncultured marine group II euryarchaeote	0	0	0	0
KORARCHAEOTA				
<i>Candidatus</i> Korarchaeum cryptofilum OPF8	0	0	1	0
NANOARCHAEOTA				
<i>Nanoarchaeum equitans</i> Kin4-M	0	0	0	0
THAUMARCHAEOTA				
<i>Candidatus</i> Nitrosoarchaeum limnia SFB1	0	0	0	0
<i>Candidatus</i> Nitrosopumilus koreensis AR1	0	0	0	0
<i>Candidatus</i> Nitrosopumilus sp. AR2	0	0	0	0
<i>Candidatus</i> Nitrososphaera gargensis Ga9.2	0	0	0	0
<i>Cenarchaeum symbiosum</i> A	0	0	0	0
<i>Nitrosopumilus maritimus</i> SCM1	0	0	0	0
UNCLASSIFIED ARCHAEA				
halophilic archaeon DL31	0	0	20	0