

Supporting Information

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	gDNA -1 in tRNA ^{His}	thg1
Crenarchaeota		
Thermoprotei		
Desulfurococcales		
Desulfurococceae		
Aeropyrum	G	-
<i>Aeropyrum pernix</i> K1		
Desulfurococcus	G	-
<i>Desulfurococcus kamchatkensis</i> 1221n		
Ignicoccus	G	degraded thg1
<i>Ignicoccus hospitalis</i> KIN4/I		
Staphylothermus	G	-
<i>Staphylothermus marinus</i> F1		
Pyrodictiaceae		
Hyperthermus	G	+
<i>Hyperthermus butylicus</i> DSM 5456		
Sulfolobales		
Sulfobaceae		
Metallosphaera	G	-
<i>Metallosphaera sedula</i> DSM 5348		
Sulfolobus	G	-
<i>Sulfolobus acidocaldarius</i> DSM 639		
<i>Sulfolobus islandicus</i> L.S.2.15		
<i>Sulfolobus islandicus</i> M.14.25		
<i>Sulfolobus islandicus</i> M.16.27		
<i>Sulfolobus islandicus</i> M.16.4		
<i>Sulfolobus islandicus</i> Y.G.57.14		
<i>Sulfolobus islandicus</i> Y.N.15.51		
<i>Sulfolobus solfataricus</i> P2		
<i>Sulfolobus tokodaii</i> 7		
Thermoproteales		
Thermofilaceae		
Thermofilum	G	-
<i>Thermofilum pendens</i> Hrk 5		
Thermoproteaceae		
Caldivirga	G	-
<i>Caldivirga maquilingensis</i> IC-167		
Pyrobaculum	A	+
<i>Pyrobaculum aerophilum</i> IN2		
<i>Pyrobaculum arsenaticum</i> DSM 13514		
<i>Pyrobaculum calidifontis</i> JCM 11548		
<i>Pyrobaculum islandicum</i> DSM 4184		
Thermoproteus	A	+
<i>Thermoproteus neutrophilus</i> V24Sta		
Euryarchaeota		
Archaeoglobi		
Archaeoglobales		
Archaeoglobaceae		
Archaeoglobus	G	-
<i>Archaeoglobus fulgidus</i> DSM 4304		
Candidatus Methanosphaerula		
unclassified		
unclassified		
Candidatus		
Candidatus <i>Methanosphaerula palustris</i> E1-9c	T	+
Halobacteria		
Halobacteriales		
Haloarculaceae		
Haloarcula	G	-
<i>Haloarcula marismortui</i> ATCC 43049		
Halobacteriaceae		
Halobacterium	G	-
<i>Halobacterium salinarum</i> R1		
<i>Halobacterium</i> sp. NRC-1		
Halogeometricum	G	-
<i>Halogeometricum borinquense</i> PR3, DSM 11551		
Halomicrobium	G	-
<i>Halomicrobium mukohataei</i> arg-2, DSM 12286		
Halorhabdus	G	-
<i>Halorhabdus utahensis</i> AX-2, DSM 12940		
Natronomonas	G	-
<i>Natronomonas pharaonis</i> DSM 2160		
Halogeometricaceae		
Haloquadratum	G	-
<i>Haloquadratum walsbyi</i> DSM 16790		
Halorubraceae		
Halorubrum	G	-
<i>Halorubrum lacusprofundi</i> ATCC 49239		
unclassified		
Natrialba	G	-
<i>Natrialba magadii</i> ATCC 43099		
Methanobacteria		
Methanobacteriales		
Methanobacteriaceae		
Methanobrevibacter	T	+
<i>Methanobrevibacter smithii</i> ATCC 35061		
<i>Methanobrevibacter smithii</i> DSM 2375		
<i>Methanobrevibacter smithii</i> F1, DSM 2374		
Methanosphaera	T	+
<i>Methanosphaera stadtmanae</i> DSM 3091		
Methanothermobacter	T	+
<i>Methanothermobacter thermoautotrophicus</i> Delta H		

Fig. S1. Archaeal taxonomy, according to the Integrated Microbial Genomes database, is shown with the identity of the genome encoded -1 residue for tRNA^{His} genes and the presence (+) or absence (-) of a thg1 homolog.

