

Table S1. *Archaea* with known 16S rRNA gene introns.

Reference	Location	Temp (°C)	pH	16S rDNA Intron	
				Reg.	Type
<i>Pyrobaculum aerophilum</i>	Italy	100	6.0	374	CDS (1)
<i>P. arsenaticum</i>	Italy			374	CDS (1)
<i>P. sp.</i> 1860	Kamchatka	84	6.8	374	CDS (1)
				1093	CDS (2)
<i>P. sp.</i> M1T	Japan			374	CDS (1)
				781	CDS (2)
				1093	CDS (2)
				1205	HP
				1213	CDS (2)
<i>Thermoproteus sp.</i> IC-033	Japan	95		548	CDS (2)
				781	CDS (1)
				1093	CDS (1)
				1205	HP
				1213	CDS (2)
<i>Staphylothermus marinus</i>		85	6.5	548	HP
<i>P. sp.</i> M0H	Japan			781	CDS (2)
<i>P. sp.</i> pHGPA13 (clone)	Japan	96		781	unk
				901	HP
				908	CDS (2)
				1205	HP
				1213	CDS (1)
<i>P. sp.</i> pHGPA1 (clone)	Japan	96		781	CDS (1)
				1205	HP
				1213	CDS (1)
<i>T. sp.</i> IC-061	Japan	95	3.1	781	CDS (2)
				1205	HP
				1213	CDS (1)
<i>Caldivirga maquilingensis</i>	Japan	85	3.9	901	HP
				908	unk
<i>Aeropyrum pernix</i>	Japan	92.5	7.0	908	CDS (2)
<i>Caldiarchaeum subterraneum</i>	Japan	69	5.1	908	CDS (2)
				919	unk
<i>P. yellowstonensis</i> WP30	YNP	75	6.0	919	CDS (2)
				1093	HP
				1391	CDS (1)
<i>P. neutrophilum</i>	Iceland	85	6.5	1205	HP
				1213	CDS (2)
<i>P. sp.</i> IC-062	Japan	95	3.1	1205	HP
				1213	CDS (2)
<i>P. oguniense</i>	Japan	92	6.6	1205	HP
				1213	CDS (2)
<i>Vulcanisaeta distributa</i> IC-065	Japan	90	2.2	1391	unk