

Table 1. Strains and size of cbf5 intron

order*	family**	species***	JCM strain number	reference****
D	D	<i>Acidilobus aceticus</i>	11320	2,a
D	D	<i>Aeropyrum camini</i>	12091	2,a
D	D	<i>Aeropyrum pernix</i>	9820	1,2,47
D	D	<i>Caldisphaera lagunensis</i>	11604	2,a
D	D	<i>Desulfurococcus amylolyticus</i>	9188	a
D	D	<i>Desulfurococcus mobilis</i>	9186	2,a
D	D	<i>Desulfurococcus mucosus</i>	9187	a
D	D	<i>Ignicoccus hospitalis</i>	DSM18386	27
D	D	<i>Ignicoccus islandicus</i>	DSM13165	2,a
D	D	<i>Ignicoccus pacificus</i>	DSM13166	a
D	D	<i>Ignisphaera aggregans</i>	13409	a
D	D	<i>Staphylothermus hellenicus</i>	10830	a
D	D	<i>Staphylothermus marinus</i>	9404	2,a
D	D	<i>Stetteria hydrogenophila</i>	10135	2,a
D	D	<i>Sulfophobococcus zilligii</i>	10309	2,a
D	D	<i>Thermodiscus maritimus</i>	11597	2,a
D	D	<i>Thermosphaera aggregans</i>	DSM11486	2,a
D	P	<i>Hyperthermus butylicus</i>	9403	2,49,a
D	P	<i>Pyrodictium abyssi</i>	9394	a
D	P	<i>Pyrodictium brockii</i>	9392	a
D	P	<i>Pyrodictium occultum</i>	9393	2,a
D	P	<i>Pyrolobus fumarii</i>	DSM11204	2,a
D	u	' <i>Caldococcus noboribetus</i> '	13516	a
S	S	<i>Acidianus ambivalens</i>	9191	a
S	S	<i>Acidianus brierleyi</i>	8954	a
S	S	<i>Acidianus infernus</i>	8955	2,a
S	S	<i>Metallosphaera hakonensis</i>	8857	2,a
S	S	<i>Metallosphaera sedula</i>	9185	2,a
S	S	<i>Stygiolobus azoricus</i>	9021	2,a
S	S	<i>Sulfolobus acidocaldarius</i>	DSM639	2,43
S	S	<i>Sulfolobus acidocaldarius</i>	9063	2,a
S	S	<i>Sulfolobus metallicus</i>	9184	2,a
S	S	<i>Sulfolobus shibatae</i>	8931	2,a
S	S	<i>Sulfolobus solfataricus</i>	11322	1,50
S	S	<i>Sulfolobus tokodaii</i>	10545	1,51
S	S	<i>Sulfurisphaera ohwakuensis</i>	9065	2,a
T	Tf	' <i>Thermofilum librum</i> '	DSM2337	a
T	Tf	<i>Thermofilum pendens</i>	DSM2475	a
T	Tp	<i>Caldivirga maquilingensis</i>	10307	2,a
T	Tp	<i>Pyrobaculum aerophilum</i>	9630	52
T	Tp	<i>Pyrobaculum arsenaticum</i>	11321	a
T	Tp	<i>Pyrobaculum islandicum</i>	9189	a
T	Tp	<i>Pyrobaculum oguniense</i>	10595	2,a
T	Tp	<i>Pyrobaculum organotrophum</i>	9190	a
T	Tp	<i>Pyrobaculum calidifontis</i>	11548	unpublished
T	Tp	<i>Thermocladium modestius</i>	10088	2,a
T	Tp	<i>Thermoproteus neutrophilus</i>	9278	2,a

T	Tp	<i>Thermoproteus tenax</i>	9277	2,a
T	Tp	<i>Vulcanisaeta distributa</i>	11212	2,a
T	Tp	<i>Vulcanisaeta souniana</i>	11219	a
C	C	' <i>Cenarchaeum symbiosum</i> '		2,53
N	N	' <i>Nitrosopumilus maritimus</i> '		unpublished
K		<i>Ca. Korarchaeum cryptofilum</i>		26

*: D; Desulfurococcales, S; Sulfolobales, T; Thermoproteales, C; 'Cenarchaeales', N; 'Nitr

**: D; Desulfurococcaceae, P; Pyrodictiaceae, u; unclassified, S; Sulfolobaceae, Tf; Therr

***: Ca., Candidatus

****: a; the present study.

*****: (c), cDNA

accession number*****	intron (bp)
[DDBJ:AB245528]	29
[DDBJ:AB245529]	37
[DDBJ:AB245523] (c),[DDBJ:BA000002]	38
[DDBJ:AB245530]	29
[DDBJ:AB304834]	21
[DDBJ:AB245531]	16
[DDBJ:AB304835]	16
[Genbank:CP000816]	0
[DDBJ:AB245532]	0
[DDBJ:AB304836]	0
[DDBJ:AB304841]	39
[DDBJ:AB304837]	36
[DDBJ:AB245533]	36
[DDBJ:AB245534]	33
[DDBJ:AB245535]	32
[DDBJ:AB245536]	44
[DDBJ:AB245537]	19
[DDBJ:AB245538]	0
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[DDBJ:AB304843]	19
[DDBJ:AB245541]	20
[DDBJ:AB245542]	19
[DDBJ:AB245543]	19
[DDBJ:AB245544]	22
[DDBJ:AB245526] (c), [Genbank:CP000077]	22
[DDBJ:AB245527] (c), [DDBJ:AB245545]	22
[DDBJ:AB245546]	22
[DDBJ:AB245547]	23
[DDBJ:AB245525] (c), [EMBL:AE006641]	22
[DDBJ:AB245524](c), [DDBJ:BA000023]	31
[DDBJ:AB245548]	31
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[DDBJ:AB261609]	0
[DDBJ:AB245549]	0
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[DDBJ:AB304846]	0
[Genbank:CP000561]	0
[DDBJ:AB245551]	0
[DDBJ:AB245552]	0

[DDBJ:AB245553]	0
[DDBJ:AB245554]	0
[DDBJ:AB304847]	0
[Genbank:DP000238]	0
[Genbank:CP000866]	0
[Genbank:CP000968]	0

nitrosopumilales', K; 'Korarchaeota' (phylum)

nitrospiraceae, Tp; Thermoproteaceae, C; Cenarchaeaceae, N; 'Nitrosopumilaceae'