

Supporting Information: Table S1 and References

Legend to Table S1. Prokaryotes with completely sequenced genomes and their optimal growth temperatures. The columns are: **NN**, number; **Organism**, name of the organism; **OGT**, optimal growth temperature, °C; **Source**, source of the optimal growth temperature.

ATCC: American Type Culture Collection, accessed at <http://www.atcc.org>

DSMZ: German Collection of Microorganisms and Cell Cultures,
accessed at <http://www.dsmz.de>

PGTdb: The Prokaryotic Growth Temperature Database,
accessed at <http://pgtdb.csie.ncu.edu.tw>

Reference: S. L. Huang, L. C. Wu, H. K. Laing, K.T. Pan, and J. T. Horng, *Bioinformatics*, Vol. 20, pp. 276-278, 2004.

The complete genomes were downloaded from the NCBI Genome database at
<http://www.ncbi.nih.gov/entrez/query.fcgi?db=Genome>

Table S1

NN	Organism	OGT, °C	Source
1	<i>Acidobacteria bacterium Ellin345</i>	25	[1]
2	<i>Aeropyrum pernix</i>	95	[2]
3	<i>Anabaena variabilis ATCC 29413</i>	35	[3]
4	<i>Anaeromyxobacter dehalogenans 2CP-C</i>	27	ATCC
5	<i>Aquifex aeolicus</i>	85	[4]
6	<i>Archaeoglobus fulgidus</i>	83	[2]
7	<i>Bordetella bronchiseptica</i>	36	DSMZ, [5]
8	<i>Borrelia burgdorferi</i>	29	[5]
9	<i>Campylobacter jejuni</i>	40	DSMZ, PGTdb
10	<i>Carboxydotherrnus hydrogenoformans Z-2901</i>	67	DSMZ
11	<i>Chlorobium tepidum TLS</i>	48	[6]
12	<i>Colwellia psychrerythraea 34H</i>	8	[7]
13	<i>Corynebacterium glutamicum ATCC 13032 Bielefeld</i>	33	DSMZ, ATCC
14	<i>Deinococcus geothermalis DSM 11300</i>	47	DSMZ
15	<i>Desulfitobacterium hafniense Y51</i>	38	[8]
16	<i>Desulfotalea psychrophila LSv54</i>	10	[9,10]
17	<i>Erythrobacter litoralis HTCC2594</i>	29	DSMZ, ATCC
18	<i>Francisella tularensis tularensis</i>	35	[11]
19	<i>Geobacillus kaustophilus HTA426</i>	60	[12]
20	<i>Geobacter metallireducens GS-15</i>	32	[13]
21	<i>Geobacter sulfurreducens</i>	32	[14]
22	<i>Haemophilus ducreyi 35000HP</i>	32	DSMZ, ATCC
23	<i>Lactobacillus acidophilus NCFM</i>	41	DSMZ, ATCC
24	<i>Leifsonia xyli xyli CTCB0</i>	29	DSMZ, ATCC
25	<i>Methanobacterium thermoautotrophicum</i>	65	[15]
26	<i>Methanococcoides burtonii DSM 6242</i>	23	DSMZ
27	<i>Methanococcus jannaschii</i>	85	[2]
28	<i>Methanococcus maripaludis S2</i>	35	[16]
29	<i>Methanopyrus kandleri</i>	98	[2]
30	<i>Methanosarcina acetivorans</i>	40	[17]
31	<i>Methanosarcina barkeri fusaro</i>	35	DSMZ, ATCC
32	<i>Methanosarcina mazei</i>	36	DSMZ, ATCC
33	<i>Methanospirillum hungatei JF-1</i>	35	DSMZ, PGTdb
34	<i>Moorella thermoacetica ATCC 39073</i>	57	DSMZ, ATCC
35	<i>Mycobacterium avium paratuberculosis</i>	39	DSMZ, PGTdb
36	<i>Nanoarchaeum equitans</i>	82	[18]
37	<i>Natronomonas pharaonis</i>	41	DSMZ, PGTdb
38	<i>Nitrobacter hamburgensis X14</i>	28	DSMZ
39	<i>Nitrobacter winogradskyi Nb-255</i>	27	DSMZ, ATCC

40	<i>Oceanobacillus iheyensis</i>	28	DSMZ
41	<i>Pelodictyon luteolum</i> DSM 273	25	DSMZ
43	<i>Photobacterium profundum</i> SS9	15	[19]
44	<i>Photorhabdus luminescens</i>	29	DSMZ, ATCC
45	<i>Picrophilus torridus</i> DSM 9790	60	[20]
46	<i>Pseudomonas aeruginosa</i>	40	[5]
47	<i>Pseudomonas fluorescens</i> Pf-5	32	[5]
48	<i>Pseudomonas putida</i> KT2440	28	[10]
49	<i>Psychrobacter arcticum</i> 273-4	22	[21]
50	<i>Pyrobaculum aerophilum</i>	100	[22]
51	<i>Pyrococcus abyssi</i>	96	[23]
52	<i>Pyrococcus furiosus</i>	100	[2]
53	<i>Pyrococcus horikoshii</i>	98	[24]
54	<i>Rhizobium etli</i> CFN 42	27	DSMZ, ATCC
55	<i>Rhodoferax ferrireducens</i> DSM 15236	25	DSMZ
56	<i>Rhodospirillum rubrum</i> ATCC 11170	27	DSMZ, PGTdb
57	<i>Rickettsia conorii</i>	35	PGTdb
58	<i>Rickettsia prowazekii</i>	35	PGTdb
59	<i>Rickettsia typhi</i> wilmington	35	PGTdb
60	<i>Saccharophagus degradans</i> 2-40	28	DSMZ
61	<i>Shewanella denitrificans</i> OS217	20	DSMZ, ATCC
62	<i>Sodalis glossinidius morsitans</i>	28	DSMZ
63	<i>Staphylococcus aureus aureus</i> MRSA252	34	[5]
64	<i>Streptococcus thermophilus</i> CNRZ1066	42	[5]
65	<i>Streptomyces avermitilis</i>	27	DSMZ, ATCC
66	<i>Streptomyces coelicolor</i>	27	DSMZ, ATCC
67	<i>Sulfolobus acidocaldarius</i> DSM 639	80	[2]
68	<i>Sulfolobus solfataricus</i>	80	[25,26]
69	<i>Sulfolobus tokodaii</i>	80	[27]
70	<i>Symbiobacterium thermophilum</i> IAM14863	60	[28]
71	<i>Synechococcus elongatus</i> PCC 7942	26	ATCC
72	<i>Thermoanaerobacter tengcongensis</i>	75	[29]
73	<i>Thermobifida fusca</i> YX	57	[30]
74	<i>Thermococcus kodakaraensis</i> KOD1	95	[31,32]
75	<i>Thermoplasma acidophilum</i>	59	[25,33]
76	<i>Thermoplasma volcanium</i>	60	[25,34]
77	<i>Thermosynechococcus elongatus</i>	55	[35]
78	<i>Thermotoga maritima</i>	80	[2]
79	<i>Thermus thermophilus</i> HB27	85	[36]
80	<i>Thiomicrospira crunogena</i> XCL-2	25	DSMZ, ATCC
81	<i>Vibrio fischeri</i> ES114	28	ATCC, PGTdb
82	<i>Yersinia pestis</i> KIM	28	[37]
83	<i>Zymomonas mobilis</i> ZM4	27	DSMZ, ATCC

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