

Annexe

Optimal Growth Temperature, Species Names and Sequence names.

Name in the Tree	Species Name	Optimal growth temperature	Refined			SSU : Sequence Name	LSU : Sequence Name
			Concatenate G+C content	SSU stem G+C content	LSU stem G+C content		
Bactéries							
Aquifex_ae	Aquifex aeolicus		85 79.2	82.7	80.3	AE000709	AE000709
Bacillu_su	Bacillus subtilis	38.75	70.2	66.9	66.2	AF058766	D26185
Bactero_fr	Bacteroides fragilis		37 67.0	65.1	58.7	M11656	gii153711291:c314376:
Borreli_bu	Borrelia burgdorferi		32 66.4	58.7	57.3	M84815	AE001147
Buchner_ap	Buchnera aphidicola	?	69.3	62.8	61.3	M63249	AF129498
Campylo_je	Campylobacter jejuni		42 67.6	59.2	59.1	L14630	AL139074
Chlamyd_mu	Chlamydia muridarum		37 68.7	63.0	58.7	U68437	U68436
Chlamyd_tr	Chlamydia trachomatis		37 68.6	63.0	58.6	AE001345	AE001345
Chlorob_li	Chlorobium limicola		30 68.0	63.3	63.5	Y08102	M31904
Clostri_bo	Clostridium botulinum		35 68.7	64.3	62.6	X68187	M94178
deinoco_ra	Deinococcus radiodurans		37 71.5	69.5	62.1	gii15805042:84836-86337 Deinococcus radiodurans R1 chromosome 1. complete sequence	gii15805042:252343-2
Escheri_co	Escherichia coli		37 70.7	66.4	65.1	AB035926	AE000406
Flavoba_od	Flavobacterium odoratum		25 67.6	61.0	61.0	M58777	M62807
Gemmata_ob	Gemmata obscuriglobus		30 70.5	67.4	66.2	AJ231191	gii12583965 gblAF24
Helicob_py	Helicobacter pylori	?	66.2	62.8	59.3	AE000620	U27270
Lactoco_la	Lactococcus lactis		30 68.2	63.8	60.3	AJ271851	X68434
Leucono_me	Leuconostoc mesenteroides		25 68.4	62.5	62.7	M23035	Z75487
Mycobac_le	Mycobacterium leprae		37 72.0	72.4	68.6	U15186	U00014
Mycopla_ge	Mycoplasma genitalium		37 64.3	54.5	56.9	U39693	U39694
Pasteur_mu	Pasteurella multocida		37 68.5	62.5	58.2	M35018	gii15601865:343584-2
Pirellu_ma	Pirellula marina	31.5	70.0	67.7	65.9	X62912	X07408
Plancto_br	Planctomyces brasiliensis	?	70.0	69.0	59.8	AJ231190	gii12583960 gblAF24
Pseudom_ae	Pseudomonas aeruginosa		37 70.8	66.9	66.8	AF023658	Y00432
Rickett_pr	Rickettsia prowazeeeki		37 69.0	64.1	58.7	AJ235272	AJ235270
Staphyl_au	Staphylococcus aureus	33.5	68.9	61.5	62.5	L36472	L36472
Strepto_co	Streptomyces coelicolor		37 73.0	72.4	68.4	AL109848	AL356612
Synecho_sp	Synechocystis sp.		29 68.9	65.4	65.1	D64000	D64000
Thermoa_te	Thermoanaerobacter tengcongensis	68.5	73.0	72.4	65.5	AF209708	gii120806542:55537-52
Thermot_ma	Thermotoga maritima		80 77.6	79.3	77.8	M21774	M67498

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Thermus_th	Thermus thermophilus	72.5	76.1	77.8	78.0	M26923	X12612
Trepone_pa	Treponema pallidum		37 69.2	66.4	63.5	AE001204	AE001204
Ureapla_ur	Ureaplasma urealyticum		37 65.6	56.3	57.3	AF073448	AE002112
Vibrio_ch	Vibrio cholerae		37 70.0	64.3	63.9	AE004341	AE004097
Xylella_fa	Xylella fastidiosa	?	69.3	65.9	66.3	AF203388	AE003861
Archées							
Acidian_in	Acidianus infernus	88	79.2	80.9	77.9	X89852	U32318
Aeropyr_pe	Aeropyrum pernix	92.5	82.3	83.2	85.4	AB008745	AB008745
Archaeo_fu	Archaeoglobus fulgidus		83 79.5	80.6	79.5	AE000965	AE000966
Desulfu_mo	Desulfurococcus mobilis		85 82.0	83.5	78.7	gil145077 gb M36474.1 DMORGX D.mobilis ribosomal 16S RNA gene	gil40816 embl X05480
Haloarc_ma	Haloarcula marismortui		45 73.6	72.1	66.6	AF034619	AF034619
Halofer_me	Haloferax mediterranei	48.725	73.5	70.3	66.4	D11107	U82482
Methano_ac	Methanosarcina acetivorans	37.5	71.4	70.3	61.8	gil20088899:1073041-1074470 Methanosarcina acetivorans C2A. complete genome	gil20088899:1930333
Methano_ja	Methanococcus jannaschii A	85	79.4	80.4	79.6	U67473	U67472
Methano_ka	Methanopyrus kandleri		98 83.3	83.7	81.5	M59932	gil20093440:585273-585273
Methano_ma	Methanosarcina mazei		35 71.8	70.8	61.8	AJ012095	gil21226102:c235022
Methano_th	Methanobacterium thermoformicum	?	73.7	71.8	70.6	X68713	AE000940
Methano_va	Methanococcus vannielii	37.5	73.3	71.3	67.8	M36507	X02729
Nanoarc_eq	Nanoarchaeum equitans		90 81.0	83.5	77.5	gil38349555:432326-433720 Nanoarchaeum equitans Kin4-M. complete genome	gil38349555:394002-394002
Natrono_ma	Natronobacterium magadii		37 73.7	72.9	67.0	X72495	X72495
Pyrococ_ab	Pyrococcus abyssi		96 81.1	84.2	81.8	AJ225071	AJ248283
Pyrococ_fu	Pyrococcus furiosus		100 80.8	83.7	78.0	U20163	gil18976372:138687-138687
Pyrococ_ho	Pyrococcus horikoshii		98 81.1	84.2	81.5	AP000001	AB009472
Sulfolo_ac	Sulfolobus acidocaldarius	72.5	79.8	82.7	77.2	D14876	U05018
Sulfolo_so	Sulfolobus solfataricus		85 79.6	78.6	77.4	X90478	M67495
Thermoc_ce	Thermococcus celer	81.5	80.2	82.7	80.0	M21529	M67497
Thermof_pe	Thermofilum pendens	87.5	80.4	80.6	81.0	X14835	X14835
Thermop_ac	Thermoplasma acidophilum		59 73.2	69.5	67.2	M38637	M32298
Eucaryotes							
Acorus_gr	Acorus gramineus		61.9	57.4	61.5	AF197584	AF036490
Andreae_ni	Andreaea nivalis		59.9	55.8	57.9	AJ243169	AJ271023
Arabido_th	Arabidopsis thaliana		61.7	57.1	60.5	AC006837	AC006837
Branchi_fl	Branchiostoma floridae		62.3	62.8	61.5	M97571	AF061796
Caenorh_el	Caenorhabditis elegans		60.8	60.7	57.1	X03680	X03680

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Candida_al	Candida albicans	58.1	55.8	55.4	X53497	L07796
Chlorel_el	Chlorella ellipsoidea	58.3	55.0	55.3	D13324	D17810
Ciona_in	Ciona intestinalis	62.1	61.0	63.0	AB013017	gil11494226 gblAF21:
Cryptoc_ne	Cryptococcus neoformans	59.1	58.1	55.1	L05427	L14067
Dictyos_di	Dictyostelium discoideum	58.4	57.4	52.5	K02641	X00601
Drosoph_me	Drosophila melanogaster	59.7	54.0	53.1	M21017	M21017
Entamoe_hi	Entamoeba histolytica	52.5	49.1	45.3	X56991	X65163
Euglena_gr	Euglena gracilis	63.7	62.8	60.2	M12677	X53361
Euplote_ae	Euplotes aediculatus	60.3	55.8	54.7	X03949	AF223571
Gelidiu_ca	Gelidium caulacanthum	62.8	62.0	59.4	U60343	AF039544
Giardia_ar	Giardia ardeae	74.3	79.1	77.2	Z17210	X58290
Giardia_in	Giardia intestinalis	75.2	82.7	80.4	X52949	X52949
Girardi_ti	Girardia tigrina	59.1	54.3	54.5	AF013157	U78718
Gracila_ve	Gracilaria verrucosa	62.5	61.8	57.7	L26205	gil4539517 emblY115
Guillar_th	Guillardia theta	61.4	59.9	59.0	AF083031	AJ010592
Homo_sa	Homo sapiens	63.7	64.1	63.4	K03432	J01866
Hylocom_sp	Hylocomium splendens	59.9	56.8	57.9	X95477	AJ271024
Latimer_ch	Latimeria chalumnae	63.6	62.0	63.2	L11288	U34336
Onikusa_pr	Onikusa pristoides	62.8	62.3	59.1	U60353	AF039541
Oryza_sa	Oryza sativa	61.8	58.1	61.4	AF069218	M16845
Phytoph_me	Phytophthora megasperma	59.4	55.6	56.2	M54938	X75632
Plasmod_fa	Plasmodium falciparum	56.9	52.2	50.2	M19172	U48228
Sacchar_ce	Saccharomyces cerevisiae	58.4	56.3	55.9	U53879	U53879
Schizos_po	Schizosaccharomyces pombe	59.0	56.3	55.7	X54866	Z19136
Scytosi_lo	Scytosiphon lomentaria	60.9	56.1	56.9	D16558	D16558
Squalus_ac	Squalus acanthias	63.4	60.7	62.7	M91179	AF061800
Tetrahy_py	Tetrahymena pyriformis	58.6	53.7	52.9	M98021	X01533
Tetrahy_th	Tetrahymena thermophila	58.6	53.5	52.9	M10932	X54512
Toxopla_go	Toxoplasma gondii	61.2	57.1	55.9	L24381	AF076901
Trypano_br	Trypanosoma brucei	61.7	62.5	59.0	AL359782	X05682
Trypano_cr	Trypanosoma cruzi	61.8	62.3	57.5	AF245382	L22334

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2-3140885 *Bacteroides fragilis* YCH46. complete genome

254285 *Deinococcus radiodurans* R1 chromosome 1. complete sequence

5369.1|AF245369 *Gemmata obscuriglobus* 23S ribosomal RNA gene. partial sequence

346487 *Pasteurella multocida* subsp. *multocida* str. Pm70. complete genome

5364.1|AF245364 *Planctomyces brasiliensis* 23S ribosomal RNA gene. partial sequence

3465 *Thermoanaerobacter tengcongensis* MB4. complete genome

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1.1IDMRN23 *Desulfurococcus mobilis* 23S ribosomal RNA

-1933231 *Methanosarcina acetivorans* C2A. complete genome

588370 *Methanopyrus kandleri* AV19. complete genome

-232130 *Methanosarcina mazei* Go1. complete genome

396863 *Nanoarchaeum equitans* Kin4-M. complete genome

141735 *Pyrococcus furiosus* DSM 3638. complete genome

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2177.1IAF212177 *Ciona intestinalis* 28S ribosomal RNA gene, partial sequence

08.1IGV11508 *Gracilaria verrucosa* 28S rRNA gene, ITS2