

Supporting materials

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Supplementary Table S1. List of thermophilic and thermotolerant bacteria to be screened for the key genes of the steroid catabolic 9,10-*seco*-pathway.

No.	Strain	GenBank ID
1.	<i>Acidimicrobium ferrooxidans</i> DSM 10331	CP001631.1
2.	<i>Acidithiobacillus thiooxidans</i> ATCC 19377	CP045571.1
3.	<i>Acidothermus cellulolyticus</i> 11B	CP000481.1
4.	<i>Alicyclobacillus acidocaldarius</i> subsp. <i>acidocaldarius</i> DSM 446	CP001727.1
5.	<i>Amycolatopsis granulosa</i> DSM 45669	JAANOV010000001.1
6.	<i>Amycolatopsis methanolica</i> 239	AQUL01000001.1- AQUL01000002.1
7.	<i>Amycolatopsis ruanii</i> 49.3e	PQHY01000001- PQHY01000170
8.	<i>Amycolatopsis thermalba</i> 50.9b	PQHX01000001- PQHX01000181
9.	<i>Bacillus circulans</i> strain FDAARGOS 783	CP053989.1
10.	<i>Bacillus coagulans</i> ATCC 7050	CP009709.1

11.	<i>Bacillus licheniformis</i> ATCC 14580	CP000002.3
12.	<i>Bacillus subtilis</i> _subsp. <i>subtilis</i> 168	AL009126.3
13.	<i>Bifidobacterium thermophilum</i> 1543B	PCGX01000001- PCGX01000016
14.	<i>Brevibacillus laterosporus</i> DSM 25	CP017705.1
15.	<i>Chloroflexus</i> sp. Y-400-fl	CP001364.1
16.	<i>Desulfotomaculum nigrificans</i> DSM 574	AEVP02000001- AEVP02000007
17.	<i>Geobacillus kaustophilus</i> HTA426	BA000043.1
18.	<i>Geobacillus thermocatenulatus</i> strain KCTC 3921	CP018058.1
19.	<i>Laceyella sacchari</i> DSM 43356	SMDD01000001- SMDD01000021
20.	<i>Leptospira biflexa</i> 201601962	RQHA01000001- RQHA01000012
21.	<i>Lysinibacillus sphaericus</i> DSM 28	CP019980.1
22.	<i>Methanothermobacter thermautotrophicus</i> Delta H	AE000666.1
23.	<i>Methylococcus capsulatus</i> Bath	AE017282.2
24.	<i>Microbispora rosea</i> subsp. <i>aerata</i> JCM 3076	BMPY01000001- BMPY01000111
25.	<i>Microbispora siamensis</i> NBRC 104113	BOOF01000001.1- BOOF01000148.1
26.	<i>Moorella thermoacetica</i> strain DSM 103284	CP017237.1
27.	<i>Parageobacillus thermoglucosidasius</i> strain NCIMB 11955	CP016622.1
28.	<i>Rubrobacter radiotolerans</i> strain RSPS-4	CP007514.1
29.	<i>Rubrobacter taiwanensis</i> Yellowstone	SKBU01000001- SKBU01000057

30.	<i>Rubrobacter xylanophilus</i> DSM 9941	CP000386.1
31.	<i>Ruminiclostridium thermocellum</i> DSM 2360	CP016502.1
32.	<i>Saccharomonospora azurea</i> NA-128	CM001466.1
33.	<i>Saccharomonospora viridis</i> DSM 43017	CP001683.1
34.	<i>Saccharopolyspora rectivirgula</i> DSM 43113	JNVU01000001.1- JNVU01000050.1
35.	<i>Streptomyces calidiresistens</i> DSM 42108	VKHS01000001- VKHS01001643
36.	<i>Streptomyces thermoautotrophicus</i> UBT1	JYIJ01000001.1- JYIJ01000019.1
37.	<i>Streptomyces thermocarboxydus</i> BPSAC147	STGO01000001- STGO01000102
38.	<i>Streptomyces thermoviolaceus</i> subsp. <i>thermoviolaceus</i> JCM 4843	BMVZ01000001- BMVZ01000049
39.	<i>Streptomyces thermovulgaris</i> NRRL B-12375	MUME01000001- MUME01000595
40.	<i>Streptosporangium album</i> DSM 43023	JACHJU010000001- JACHJU010000014
41.	<i>Sulfolobus acidocaldarius</i> DG1	CP020364.1
42.	<i>Synechococcus lividus</i> PCC 6715	CP018092.1
43.	<i>Thermoactinomyces vulgaris</i> strain 2H	CP039710.1
44.	<i>Thermoanaerobacterium thermosaccharolyticum</i> DSM 571	CP002171.1
45.	<i>Thermobifida fusca</i> YX	CP000088.1
46.	<i>Thermobispora bispora</i> DSM 43833	CP001874.1
47.	<i>Thermocatellispora tengchongensis</i> DSM 45615	JACHGN010000001.1- JACHGN010000063.1

48.	<i>Thermodesulfobacterium thermophilum</i> DSM_1276	ATXI01000001- ATXI01000046
49.	<i>Thermomonospora curvata</i> DSM 43183	CP001738.1
50.	<i>Thermoplasma acidophilum</i> DSM 1728	AL139299.1
51.	<i>Thermus aquaticus</i> Y51MC23	CP010822.1
52.	<i>Thermus thermophilus</i> HB8	AP008226.1