

Additional file 2: Gene ID and Accession no. of ASP1 and ASP2 homologues in all sequenced actinobacterial strains.

Actinobacterial strain	ASP1	ASP2
<i>Streptomyces coelicolor</i> A3(2)	SCO1997 [GenBank: NP_626258]	SCO1662 [GenBank: NP_625937]
<i>Streptomyces avermitilis</i> MA-4680	SAV_6234 [GenBank: NP_827410]	SAV_6650 [GenBank: NP_827826]
<i>Streptomyces griseus</i> subsp. <i>Griseus</i> NBRC 13350	SGR_5536 [GenBank: YP_001827048]	SGR_5841 [GenBank: YP_001827353]
<i>Streptomyces</i> sp. Mg1	SSAG_03958 [GenBank: YP_00218060]	SSAG_04705 [GenBank: YP_002179778]
<i>Thermobifida fusca</i> YX	Tfu_0926 [GenBank: YP_288987]	Tfu_1826 [GenBank: YP_289882]
<i>Salinispora arenicola</i> CNS-205	Sare_1722 [GenBank: YP_001536600]	Sare_2324 [GenBank: YP_001537173]
<i>Salinispora tropica</i> CNB-440	Strop_1737 [GenBank: YP_001158578]	Strop_2170 [GenBank: YP_001158999]
<i>Kineococcus radiotolerans</i> SRS30216	Krad_1509 [GenBank: YP_001361261]	Krad_1842 [GenBank: YP_001361592]
<i>Rhodococcus jostii</i> RHA1	RHA1_ro06805 [GenBank: YP_706735]	RHA1_ro00860 [GenBank: YP_700851]
<i>Nocardia farcinica</i> IFM 10152	nfa37830 [GenBank: YP_119995]	nfa31940 [GenBank: YP_119405]
<i>Frankia</i> sp. Ccl3	Francci3_1247 [GenBank: YP_480354]	Francci3_2640 [GenBank: YP_481731]
<i>Frankia alni</i> ACN14a	FRAAL1976 [GenBank: YP_712208]	FRAAL2860 [GenBank: YP_713072]
<i>Frankia</i> sp. EAN1pec	Franean1_5208 [GenBank: YP_001509472]	Franean1_4890 [GenBank: YP_001509161]
<i>Acidothermus cellulolyticus</i> 11B	Acel_0028 [GenBank: YP_871790]	Acel_1173 [GenBank: YP_872931]
<i>Mycobacterium abscessus</i>	MAB_3033 [GenBank: YP_001703765]	MAB_2128c [GenBank: YP_001702863]
<i>Mycobacterium</i> sp. MCS	Mmcs_2173 [GenBank: YP_639337]	Mmcs_3150 [GenBank: YP_640313]
<i>Mycobacterium</i> sp. KMS	Mkms_2219 [GenBank: YP_938207]	Mkms_3212 [GenBank: YP_939196]
<i>Mycobacterium</i> sp. JLS	Mjls_2162 [GenBank: YP_001070439]	Mjls_3162 [GenBank: YP_001071432]
<i>Mycobacterium vanbaalenii</i> PYR-1	Mvan_2446 [GenBank: YP_953265]	Mvan_3475 [GenBank: YP_954276]
<i>Mycobacterium avium</i> subsp. <i>Paratuberculosis</i> K-10	MAP2831 [GenBank: NP_961765]	MAP1860 [GenBank: NP_960794]
<i>Mycobacterium avium</i> 104	MAV_3608 [GenBank: YP_882785]	MAV_2378 [GenBank: YP_881579]
<i>Mycobacterium gilvum</i> PYR-GCK	Mflv_3951 [GenBank: YP_001135210]	Mflv_3052 [GenBank: YP_001134317]
<i>Mycobacterium leprae</i> TN	ML1009 [GenBank: NP_301746]	ML1306 [GenBank: NP_301939]
<i>Mycobacterium marinum</i> M	MMAR_1998 [GenBank: YP_001850303]	MMAR_3107 [GenBank: YP_001851397]
<i>Mycobacterium smegmatis</i> str. MC2 155	MSMEG_2746 [GenBank: YP_887078]	MSMEG_4186 [GenBank: YP_888465.]
<i>Mycobacterium bovis</i> AF2122/97	Mb2733 [GenBank: NP_856379]	Mb2149 [GenBank: NP_855798]
<i>Mycobacterium bovis</i> BCG str. Pasteur 1173P2	BCG_2727 [GenBank: YP_978813]	BCG_2142 [GenBank: YP_978231]
<i>Mycobacterium ulcerans</i> Agy99	MUL_3357 [GenBank: YP_907010]	MUL_2357 [GenBank: YP_906192]
<i>Mycobacterium tuberculosis</i> H37Rv	Rv2714 [GenBank: NP_217230]	Rv2125 [GenBank: NP_216641]
<i>Mycobacterium tuberculosis</i> H37Ra	MRA_2742 [GenBank: YP_001284078]	MRA_2140 [GenBank: YP_001283463]
<i>Mycobacterium tuberculosis</i> CDC1551	MT2787 [GenBank: NP_337289]	MT2184 [GenBank: NP_336654]
<i>Nocardioide</i> sp. JS614	Noca_2852 [GenBank: YP_924041]	Noca_2630 [GenBank: YP_923820]
<i>Renibacterium salmoninarum</i> ATCC 33209	RSal33209_2429 [GenBank: YP_001625569]	RSal33209_2043 [GenBank: YP_001625190]
marine actinobacterium PHSC20C1	A20C1_03668 [GenBank: ZP_01131566]	A20C1_02494 [GenBank: ZP_01131235]
<i>Janibacter</i> sp. HTCC2649	JNB_00545 [GenBank: ZP_00994816]	JNB_03080 [GenBank: ZP_00995323]
<i>Arthrobacter aureescens</i> TC1	AAur_1758 [GenBank: YP_947518]	AAur_2170 [GenBank: YP_947912]
<i>Arthrobacter</i> sp. FB24	Arth_1614 [GenBank: YP_831108]	Arth_2169 [GenBank: YP_831649]
<i>Leifsonia xyli</i> subsp. <i>xyli</i> str. CTCB07	Lxx10170 [GenBank: YP_061989]	Lxx08270 [GenBank: YP_061833]
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i>	CMS_1627 [GenBank: YP_001710350]	CMS_1670 [GenBank: YP_001710391]
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> NCPPB 382	CMM_1644 [GenBank: YP_001222387]	CMM_1693 [GenBank: YP_001222436]
<i>Micrococcus luteus</i> NCTC 2665	MlutDRAFT_2379 [GenBank: ZP_02945884]	MlutDRAFT_0605 [GenBank: ZP_02944113]
<i>Propionibacterium acnes</i> KPA171202	PPA1099 [GenBank: YP_055804]	PPA1200 [GenBank: YP_055907]
<i>Kocuria rhizophila</i> DC2201	KRH_14390 [GenBank: YP_001855292]	KRH_13910 [GenBank: YP_001855244]
<i>Corynebacterium glutamicum</i> ATCC 13032		NCgl1848 [GenBank: NP_601129]
<i>Corynebacterium glutamicum</i> R		cgR_1753 [GenBank: YP_001138649]
<i>Corynebacterium diphtheriae</i> NCTC		DIP1417 [GenBank: NP_939769]
<i>Corynebacterium urealyticum</i> DSM 7109		cur_0890 [GenBank: YP_001800284]
<i>Corynebacterium jeikeium</i> K411		jk1100 [GenBank: YP_250882]
<i>Corynebacterium efficiens</i> YS-314		CE1815 [GenBank: NP_738425]
<i>Actinomyces odontolyticus</i> ATCC 17982		ACTODO_01571 [GenBank: ZP_02044696]
<i>Rubrobacter xylanophilus</i> DSM 9941		Rxyl_1077 [GenBank: YP_643855]
<i>Saccharopolyspora erythraea</i> NRRL 2338		SACE_2233 [GenBank: YP_001104463]
<i>Brevibacterium linens</i> BL2		BlinB01000025 [GenBank: ZP_00381360]
<i>Bifidobacterium adolescentis</i> L2-32		BIFADO_01161 [GenBank: ZP_02028723]
<i>Bifidobacterium longum</i> NCC2705		BL0722 [GenBank: NP_695904]
<i>Bifidobacterium adolescentis</i> ATCC 15703		BAD_0824 [GenBank: YP_909687]
<i>Bifidobacterium longum</i> DJO10A		BLD_0447 [GenBank: YP_001954391]
<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> HN019		BIFLAC_03242 [GenBank: ZP_02963004]
<i>Bifidobacterium dentium</i> ATCC 27678		BIFDEN_02062 [GenBank: ZP_02918747]
<i>Tropheryma whipplei</i> str. Twist		TWT317 [GenBank: NP_787445]
<i>Tropheryma whipplei</i> TW08/27		TW455 [GenBank: NP_789385]

These actinobacteria contain a single homologue for these two paralogous proteins.