

**Table S4:** Accession numbers of actinobacterial sequences included in the phylogenetic analyses shown in Fig. 3.

Genus	Species	Strain	16S	gyrB	gyrA
<i>Frankia</i>	<i>alni</i>	ACN14a	NC_008278	NC_008278	NC_008278
<i>Streptomyces</i>	<i>abikoensis</i> (=luteovercillatus)	DSM40831	KC954556	KC954562	KC954559
<i>Streptomyces</i>	<i>albus</i>	J1074	AJ621602(1)	NZ_DS999645	NZ_DS999645
<i>Streptomyces</i>	<i>auratus</i>	AGR0001	-	NZ_JH725387	NZ_JH725387
<i>Streptomyces</i>	<i>avermitilis</i>	MA4680	NC_003155	NC_003155	NC_003155
<i>Streptomyces</i>	<i>bingchenggensis</i>	BCW1	NC_016582	NC_016582	NC_016582
<i>Streptomyces</i>	<i>cattleya</i>	NRRL8057	NC_016111	NC_016111	NC_016111
<i>Streptomyces</i>	<i>clavuligerus</i>	ATCC 27064	NZ_CM001015	NZ_CM001015	NZ_CM001015
<i>Streptomyces</i>	<i>coelicolor</i>	A3(2)	NC_003888	NC_003888	NC_003888
<i>Streptomyces</i>	<i>flavogriseus</i>	ATCC 33331	NC_016114	NC_016114	NC_016114
<i>Streptomyces</i>	<i>ghanaensis</i>	ATCC 14672	AJ781384(1)	NZ_DS999641	NZ_DS999641
<i>Streptomyces</i>	<i>griseoflavus</i>	Tu4000	AJ781322(1)	NZ_GG657758	NZ_GG657758
<i>Streptomyces</i>	<i>griseus</i> subsp. <i>griseus</i>	NBRC 13350	NC_010572	NC_010572	NC_010572
<i>Streptomyces</i>	<i>griseus</i>	XylebKG1	NZ_GL877172	NZ_GL877172	NZ_GL877172
<i>Streptomyces</i>	<i>hygroscopicus</i> subsp. <i>jinggangensis</i>	5008	NC_017765	NC_017765	NC_017765
<i>Streptomyces</i>	<i>hygroscopicus</i>	ATCC 53653	EF408736	NZ_ACEx01000401	ACEx01000401
<i>Streptomyces</i>	<i>lividans</i>	TK24	AY039029	NZ_GG657756	NZ_GG657756
<i>Streptomyces</i>	<i>mutabilis</i>	DSM40169	KC954557	KC954563	KC954560
<i>Streptomyces</i>	<i>pristinaespiralis</i>	ATCC 25486	-	NZ_CM000950	NZ_CM000950
<i>Streptomyces</i>	<i>ramulosus</i>	DSM40100	KC954558	KC954564	KC954561
<i>Streptomyces</i>	<i>roseosporus</i>	NRRL11379	NZ_ABYX01000136	NZ_ABYX01000145	ABYX01000145
<i>Streptomyces</i>	<i>scabiei</i>	87.22	NC_013929	NC_013929	NC_013929
<i>Streptomyces</i>	<i>sp.</i>	SPB78	-	NZ_GG657742	NZ_GG657742
<i>Streptomyces</i>	<i>sp.</i>	SPB74	-	NZ_GG770539	NZ_GG770539
<i>Streptomyces</i>	<i>sp.</i>	SirexAAE	NC_015953	NC_015953	NC_015953
<i>Streptomyces</i>	<i>sp.</i>	Tu6071	NZ_CM001165	NZ_CM001165	NZ_CM001165
<i>Streptomyces</i>	<i>sp.</i>	C	-	NZ_ACEW01000329	ACEW01000329
<i>Streptomyces</i>	<i>sp.</i>	Mg1	-	NZ_ABJF01000426	ABJF01000426
<i>Streptomyces</i>	<i>sviceus</i>	ATCC 29083	AB184559(1)	NZ_CM000951	NZ_CM000951
<i>Streptomyces</i>	<i>venezuelae</i>	ATCC 10712	NC_018750	NC_018750	NC_018750
<i>Streptomyces</i>	<i>violaceusniger</i>	Tu4113	NC_015957	NC_015957	NC_015957
<i>Streptomyces</i>	<i>viridochromogenes</i>	DSM40736	AB045858(1)	NZ_ACEZ01000135	ACEZ01000135
<i>Streptosporangium</i>	<i>roseum</i>	DSM 43021	NC_013595	NC_013595	NC_013595