Supplemental Figure S1a-d.

Overlay of phylogeny constructed using FastTreeMP 2.1.9 (Price et al., 2010) compiled for double precision from partial sequences of 5 house-keeping genes (*atpD*, *gyrB*, *recA*, *rpoB* and *trpB*) for 170 strains onto a similarly constructed tree using an alignment of 1,487 core gene sequences (1,943,267 bp) extracted from the genomes held on the ARS Microbial Genomic Sequence database server (http://199.133.98.43) using the Genome Comparator function in BIGSdb 1.12.3 (Jolley and Maiden, 2010) using the genome sequence of *Streptomyces scabiei* RL87.22 (=NRRL B-24449), Genbank FN554889 as the reference sequence. ViPhy version 1.3.1 (Bremm et al. 2014) was used to visualize similarities between the trees. Branches marked in red have > 70% similarity, demonstrating that there is generally close correlation between the phylogenetic relationships determined based on 5 partial house-keeping gene sequences and that based on 1,487 core genes.

Literature Cited:

Bremm S, von Landesberger T, Hess M, Schreck T, Weil P, Hamacher K (2011). Interactive visual comparison of multiple trees. IEEE Visual Analytics Science and Technology. Pp 31-40.

Jolley K, Maiden M (2010) BIGSdb: Scalable analysis of bacterial genome variation at the population level. BMC Bioinformatics 11: 595

Price MN, Dehal PS, Arkin, AP (2010) FastTree 2 -- Approximately Maximum-Likelihood Trees for Large Alignments. PLoS ONE 5(3):e9490.

Figure S1a.

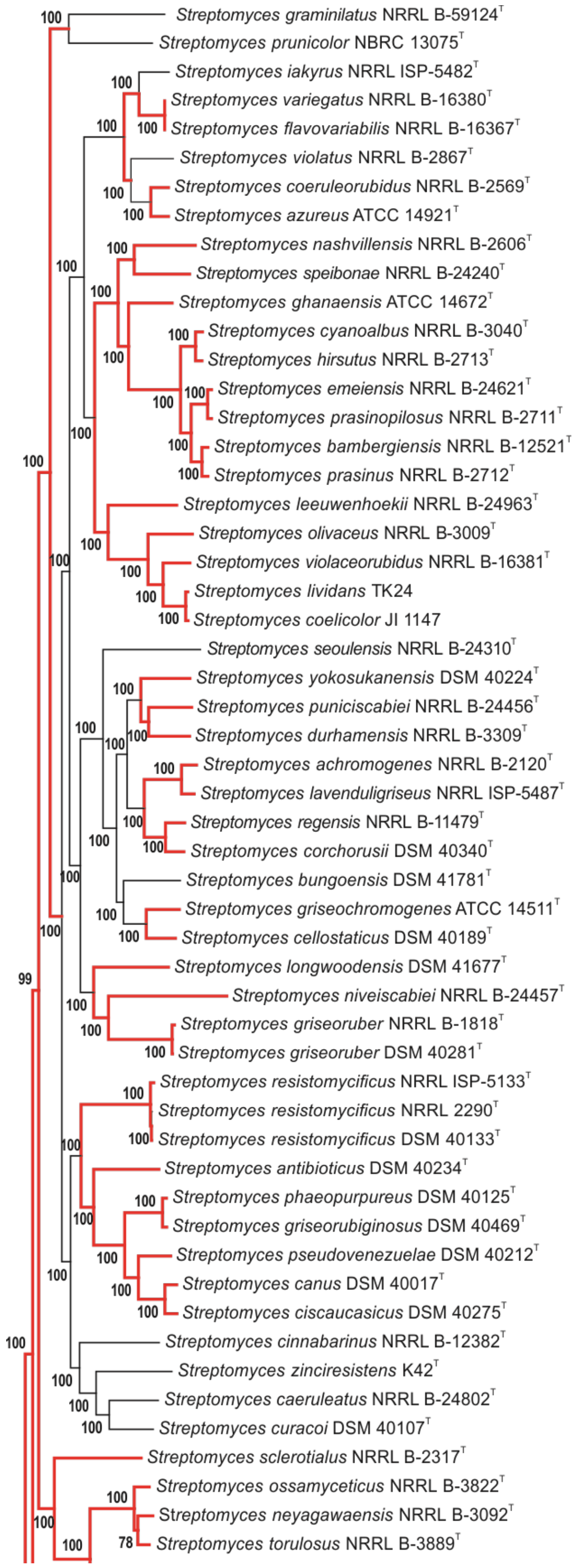

Streptomyces graminilatus NRRL B-59124^{T}
Streptomyces prunicolor NBRC 13075^{T}
Streptomyces iakyrus NRRL ISP-5482^{T}
Streptomyces variegatus NRRL B-16380^{T}
Streptomyces flavovariabilis NRRL B-16367^{T}
Streptomyces violatus NRRL B-2867^{T}
Streptomyces coeruleorubidus NRRL B-2569^{T}
Streptomyces azureus ATCC 14921^{T}
Streptomyces nashvillensis NRRL B-2606^{T}
Streptomyces speibonae NRRL B-24240^{T}
Streptomyces ghanaensis ATCC 14672^{T}
Streptomyces cyanoalbus NRRL B-3040^{T}
Streptomyces hirsutus NRRL B-2713^{T}
Streptomyces emeiensis NRRL B-24621^{T}
Streptomyces prasinopilosus NRRL B-2711^{T}
Streptomyces bambergiensis NRRL B-12521^{T}
Streptomyces prasinus NRRL B-2712^{T}
Streptomyces leeuwenhoekii NRRL B-24963^{T}
Streptomyces olivaceus NRRL B-3009^{T}
Streptomyces violaceorubidus NRRL B-16381^{T}
Streptomyces lividans TK24
Streptomyces coelicolor JI 1147
Streptomyces seoulensis NRRL B-24310^{T}
Streptomyces yokosukanensis DSM 40224^{T}
Streptomyces puniciscabiei NRRL B-24456^{T}
Streptomyces durhamensis NRRL B-3309^{T}
Streptomyces achromogenes NRRL B-2120^{T}
Streptomyces lavenduligriseus NRRL ISP-5487^{T}
Streptomyces regensis NRRL B-11479^{T}
Streptomyces corchorusii DSM 40340^{T}
Streptomyces bungoensis DSM 41781^{T}
Streptomyces griseochromogenes ATCC 14511^{T}
Streptomyces cellostaticus DSM 40189^{T}
Streptomyces longwoodensis DSM 41677^{T}
Streptomyces niveiscabiei NRRL B-24457^{T}
Streptomyces griseoruber NRRL B-1818^{T}
Streptomyces griseoruber DSM 40281^{T}
Streptomyces resistomycificus NRRL ISP-5133^{T}
Streptomyces resistomycificus NRRL 2290^{T}
Streptomyces resistomycificus DSM 40133^{T}
Streptomyces antibioticus DSM 40234^{T}
Streptomyces phaeopurpureus DSM 40125^{T}
Streptomyces griseorubiginosus DSM 40469^{T}
Streptomyces pseudovenezuelae DSM 40212^{T}
Streptomyces canus DSM 40017^{T}
Streptomyces ciscaucasicus DSM 40275^{T}
Streptomyces cinnabarinus NRRL B-12382^{T}
Streptomyces zinciresistens K42^{T}
Streptomyces caeruleatus NRRL B-24802^{T}
Streptomyces curacoi DSM 40107^{T}
Streptomyces sclerotialus NRRL B-2317^{T}
Streptomyces ossamyceticus NRRL B-3822^{T}
Streptomyces neyagawaensis NRRL B-3092^{T}
Streptomyces torulosus NRRL B-3889^{T}
100
99
78

Figure S1b.

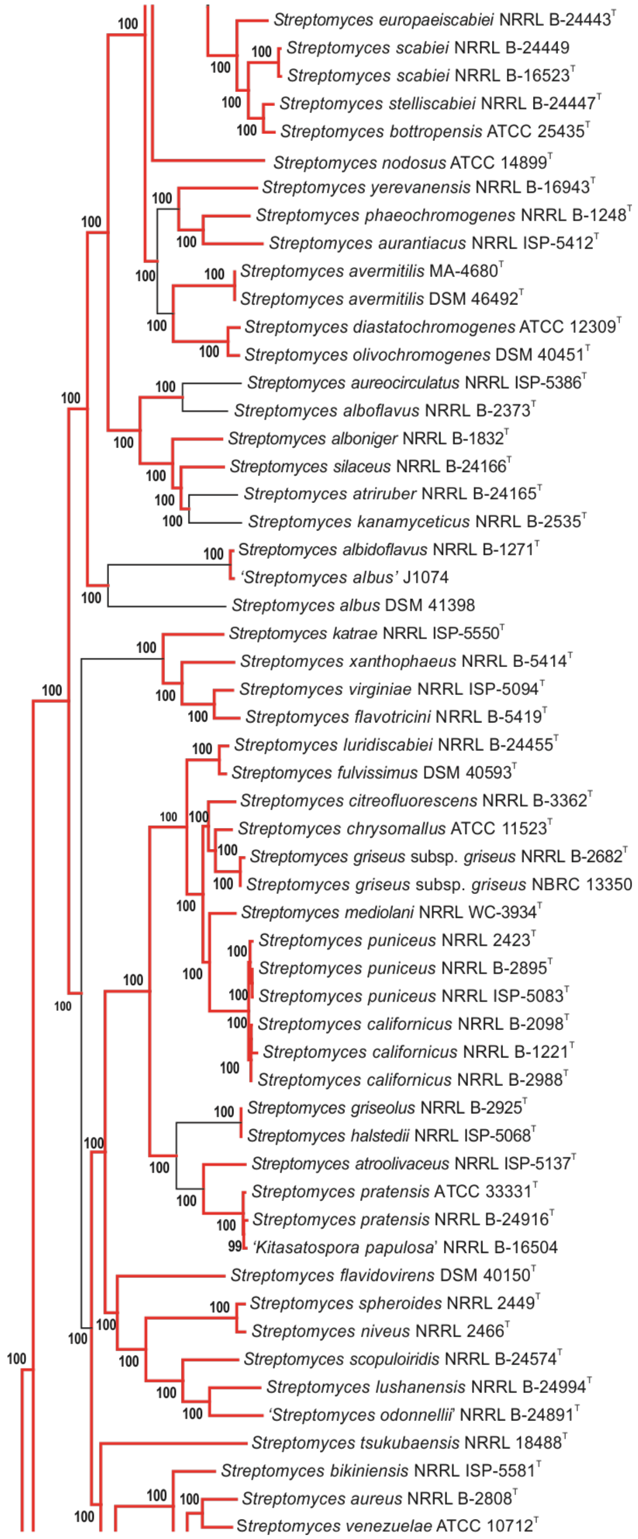

100
Streptomyces europaeiscabiei NRRL B-24443^T
100
Streptomyces scabiei NRRL B-24449
100
Streptomyces scabiei NRRL B-16523^T
100
Streptomyces stelliscabiei NRRL B-24447^T
100
Streptomyces bottropensis ATCC 25435^T
Streptomyces nodosus ATCC 14899^T
Streptomyces yerevanensis NRRL B-16943^T
100
Streptomyces phaeochromogenes NRRL B-1248^T
100
100
Streptomyces aurantiacus NRRL ISP-5412^T
100
Streptomyces avermitilis MA-4680^T
100
Streptomyces avermitilis DSM 46492^T
100
Streptomyces diastatochromogenes ATCC 12309^T
100
Streptomyces olivochromogenes DSM 40451^T
Streptomyces aureocirculatus NRRL ISP-5386^T
100
100
Streptomyces alboflavus NRRL B-2373^T
Streptomyces alboniger NRRL B-1832^T
100
Streptomyces silaceus NRRL B-24166^T
100
Streptomyces atriruber NRRL B-24165^T
100
100
Streptomyces kanamyceticus NRRL B-2535^T
100
Streptomyces albidoflavus NRRL B-1271^T
'Streptomyces albus' J1074
100
Streptomyces albus DSM 41398
Streptomyces katrae NRRL ISP-5550^T
100
Streptomyces xanthophaeus NRRL B-5414^T
100
Streptomyces virginiae NRRL ISP-5094^T
100
100
Streptomyces flavotricini NRRL B-5419^T
100
Streptomyces luridiscabiei NRRL B-24455^T
Streptomyces fulvissimus DSM 40593^T
Streptomyces citreofluorescens NRRL B-3362^T
100
100
Streptomyces chrysomallus ATCC 11523^T
100
Streptomyces griseus subsp. griseus NRRL B-2682^T
100
Streptomyces griseus subsp. griseus NBRC 13350
100
Streptomyces mediolani NRRL WC-3934^T
Streptomyces puniceus NRRL 2423^T
100
Streptomyces puniceus NRRL B-2895^T
100
100
100
Streptomyces puniceus NRRL ISP-5083^T
100
100
Streptomyces californicus NRRL B-2098^T
Streptomyces californicus NRRL B-1221^T
100
Streptomyces californicus NRRL B-2988^T
100
Streptomyces griseolus NRRL B-2925^T
Streptomyces halstedii NRRL ISP-5068^T
100
Streptomyces atroolivaceus NRRL ISP-5137^T
100
Streptomyces pratensis ATCC 33331^T
100
Streptomyces pratensis NRRL B-24916^T
100
99
'Kitasatospora papulosa' NRRL B-16504
Streptomyces flavidovirens DSM 40150^T
100
Streptomyces spheroides NRRL 2449^T
100
Streptomyces niveus NRRL 2466^T
100
100
Streptomyces scopuloiridis NRRL B-24574^T
100
Streptomyces lushanensis NRRL B-24994^T
100
100
'Streptomyces odonnellii' NRRL B-24891^T
Streptomyces tsukubaensis NRRL 18488^T
Streptomyces bikiniensis NRRL ISP-5581^T
100
100
Streptomyces aureus NRRL B-2808^T
100
Streptomyces venezuelae ATCC 10712^T

Figure S1c.

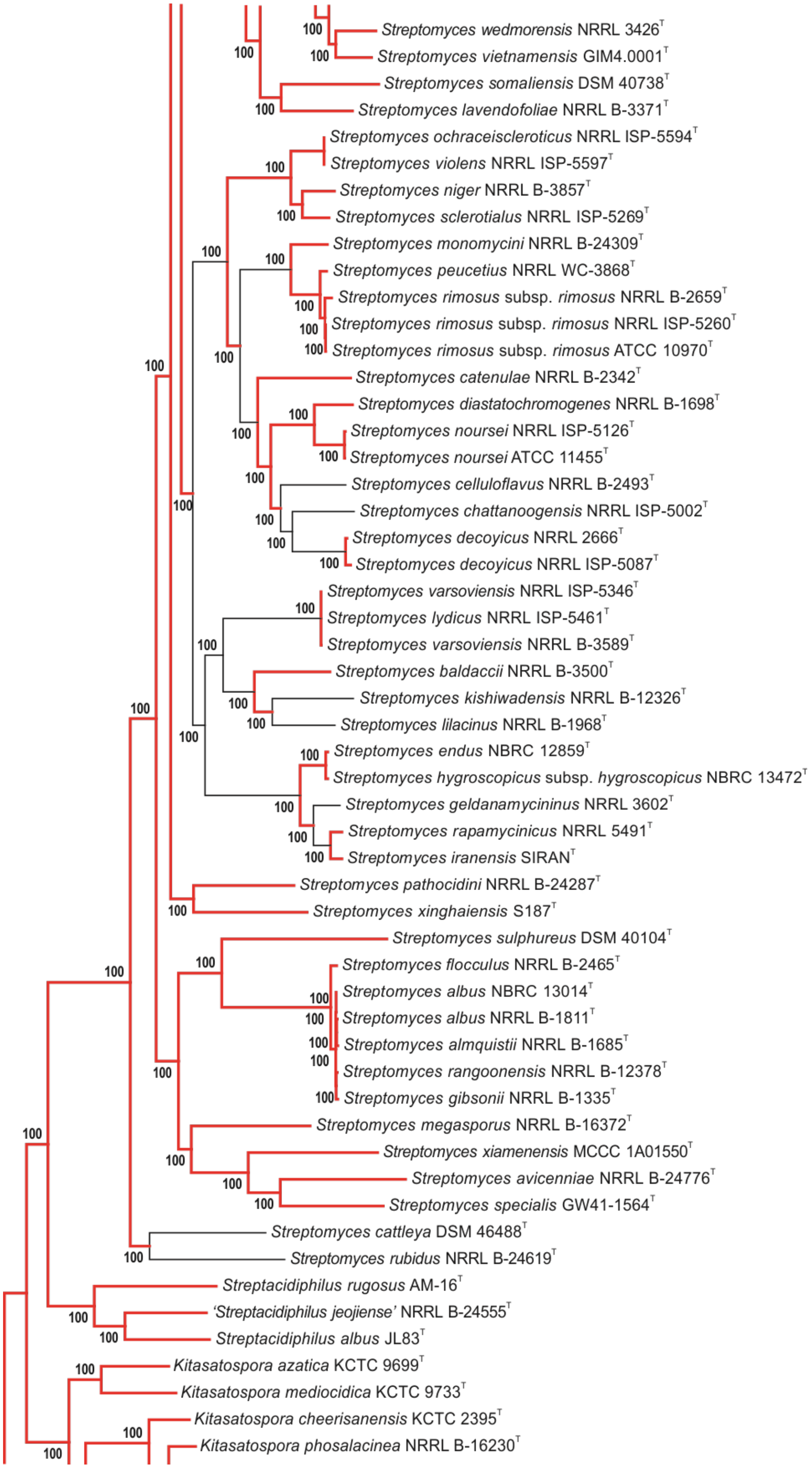
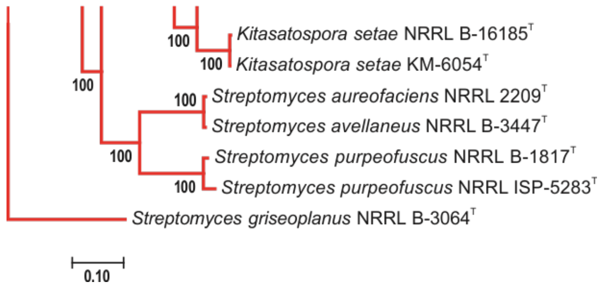

100
Streptomyces wedmorensis NRRL 3426^T
100
100
Streptomyces vietnamensis GIM4.0001^T
Streptomyces somaliensis DSM 40738^T
100
Streptomyces lavendofoliae NRRL B-3371^T
Streptomyces ochraceiscleroticus NRRL ISP-5594^T
Streptomyces violens NRRL ISP-5597^T
100
Streptomyces niger NRRL B-3857^T
100
Streptomyces sclerotialus NRRL ISP-5269^T
Streptomyces monomycini NRRL B-24309^T
100
100
Streptomyces peucetius NRRL WC-3868^T
Streptomyces rimosus subsp. rimosus NRRL B-2659^T
100
100
Streptomyces rimosus subsp. rimosus NRRL ISP-5260^T
100
Streptomyces rimosus subsp. rimosus ATCC 10970^T
100
100
Streptomyces catenulae NRRL B-2342^T
Streptomyces diastatochromogenes NRRL B-1698^T
100
Streptomyces noursei NRRL ISP-5126^T
100
100
Streptomyces noursei ATCC 11455^T
100
Streptomyces celluloflavus NRRL B-2493^T
100
Streptomyces chattanoogensis NRRL ISP-5002^T
100
Streptomyces decoyicus NRRL 2666^T
100
100
Streptomyces decoyicus NRRL ISP-5087^T
Streptomyces varsoviensis NRRL ISP-5346^T
100
Streptomyces lydicus NRRL ISP-5461^T
100
Streptomyces varsoviensis NRRL B-3589^T
Streptomyces baldaccii NRRL B-3500^T
100
Streptomyces kishiwadensis NRRL B-12326^T
100
100
Streptomyces lilacinus NRRL B-1968^T
100
Streptomyces endus NBRC 12859^T
100
Streptomyces hygroscopicus subsp. hygroscopicus NBRC 13472^T
Streptomyces geldanamycininus NRRL 3602^T
100
Streptomyces rapamycinicus NRRL 5491^T
100
100
Streptomyces iranensis SIRAN^T
Streptomyces pathocidini NRRL B-24287^T
100
Streptomyces xinghaiensis S187^T
Streptomyces sulphureus DSM 40104^T
100
Streptomyces flocculus NRRL B-2465^T
100
Streptomyces albus NBRC 13014^T
100
100
Streptomyces albus NRRL B-1811^T
100
Streptomyces almquistii NRRL B-1685^T
100
100
Streptomyces rangoonensis NRRL B-12378^T
100
Streptomyces gibsonii NRRL B-1335^T
Streptomyces megasporus NRRL B-16372^T
100
Streptomyces xiamenensis MCCC 1A01550^T
100
Streptomyces avicenniae NRRL B-24776^T
100
100
Streptomyces specialis GW41-1564^T
Streptomyces cattleya DSM 46488^T
100
Streptomyces rubidus NRRL B-24619^T
Streptacidiphilus rugosus AM-16^T
100
'Streptacidiphilus jeojiense' NRRL B-24555^T
100
Streptacidiphilus albus JL83^T
Kitasatospora azatica KCTC 9699^T
100
Kitasatospora mediocidica KCTC 9733^T
Kitasatospora cheerisanensis KCTC 2395^T
100
Kitasatospora phosalacinea NRRL B-16230^T
100

Figure S1d.


100
Kitasatospora setae NRRL B-16185T
100
Kitasatospora setae KM-6054T
100
100
Streptomyces aureofaciens NRRL 2209T
Streptomyces avellaneus NRRL B-3447T
100
Streptomyces purpeofuscus NRRL B-1817T
100
Streptomyces purpeofuscus NRRL ISP-5283T
Streptomyces griseoplanus NRRL B-3064T
0.10