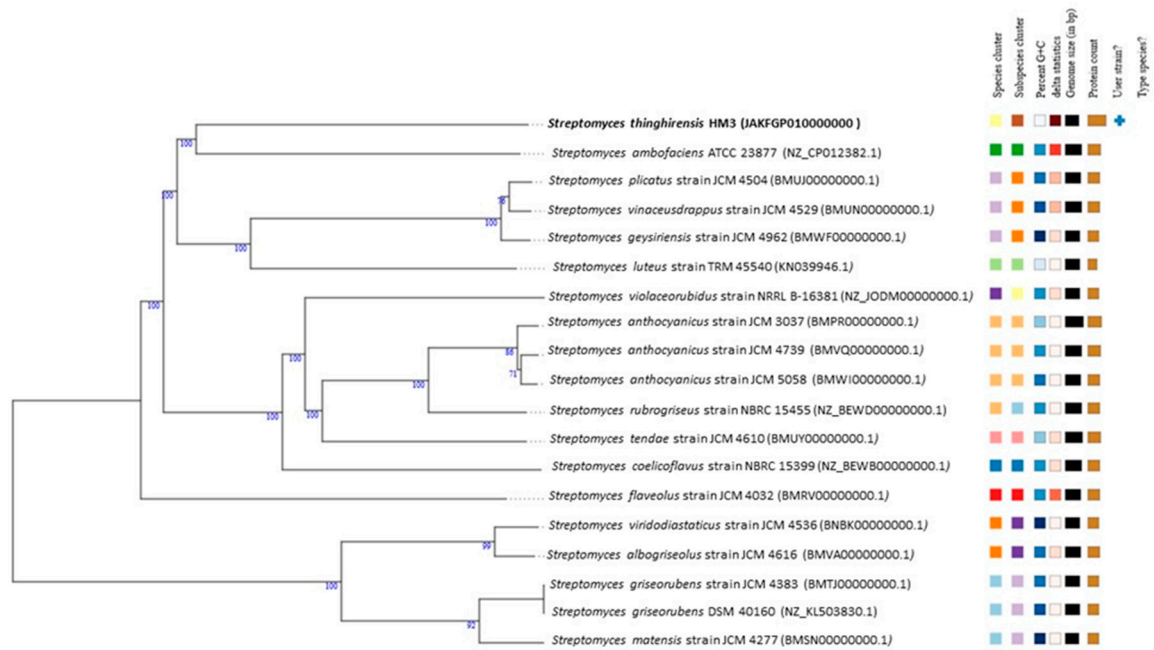


## Supplementary Materials



**Figure S1:** Tree inferred with FastME 2.1.6.1 in TYGS database from GBDP distances calculated from genome sequences (NCBI GenBank accession ID JAKFGP000000000) showing the phylogenetic relationships between strain HM3 and the most closely related type strains of the genus *Streptomyces*. The branch lengths are scaled in terms of GBDP distance formula  $d_5$ . The numbers above branches are GBDP pseudo-bootstrap support values > 60 % from 100 replications, with an average branch support of 92.2 %.

## KnownClusterBlast



## ClusterBlast

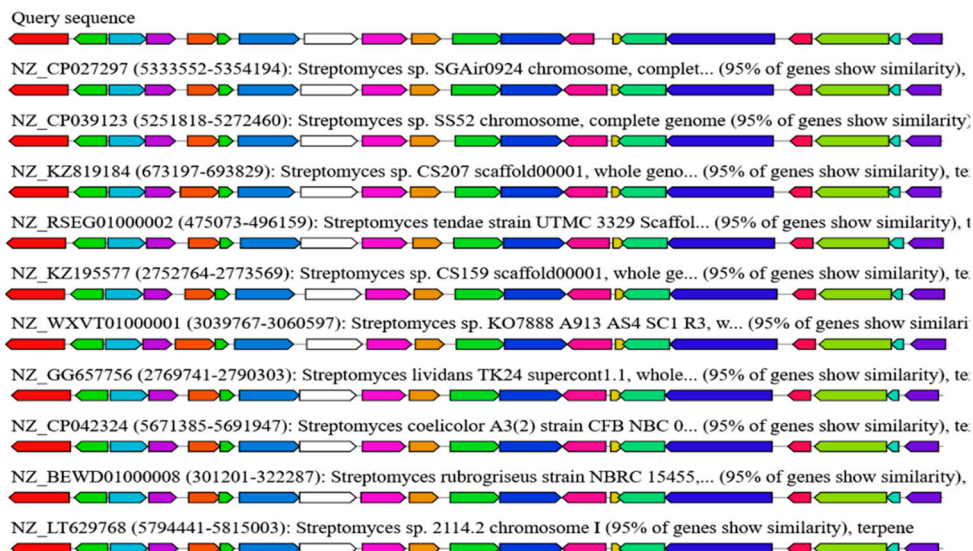
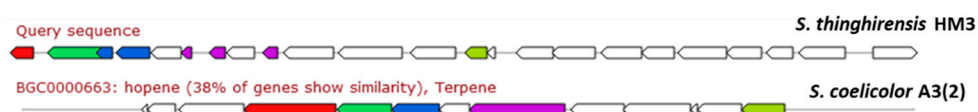


Figure S2. Terpene (albaflavenone), KnownClusterBlast and ClusterBlast.

## KnownClusterBlast



## ClusterBlast

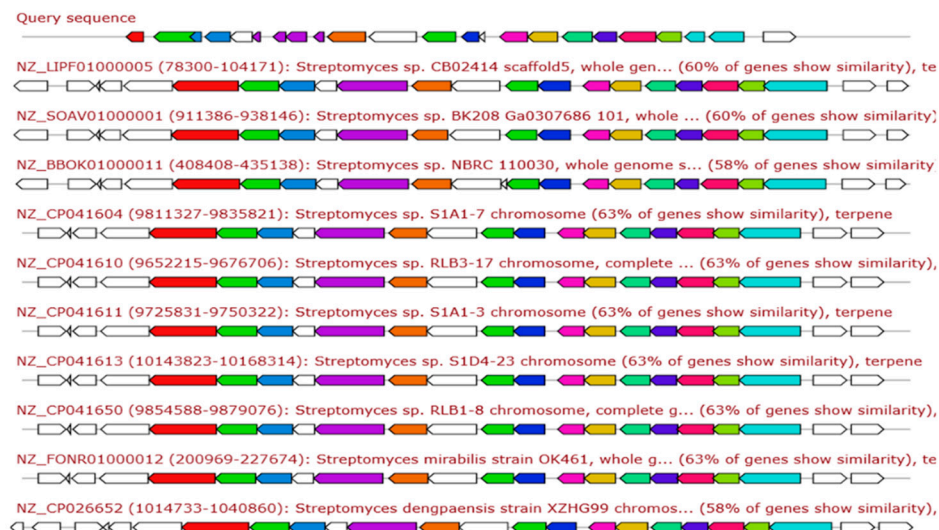
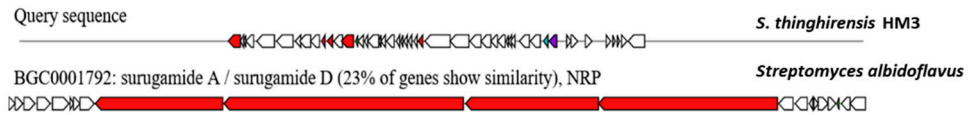
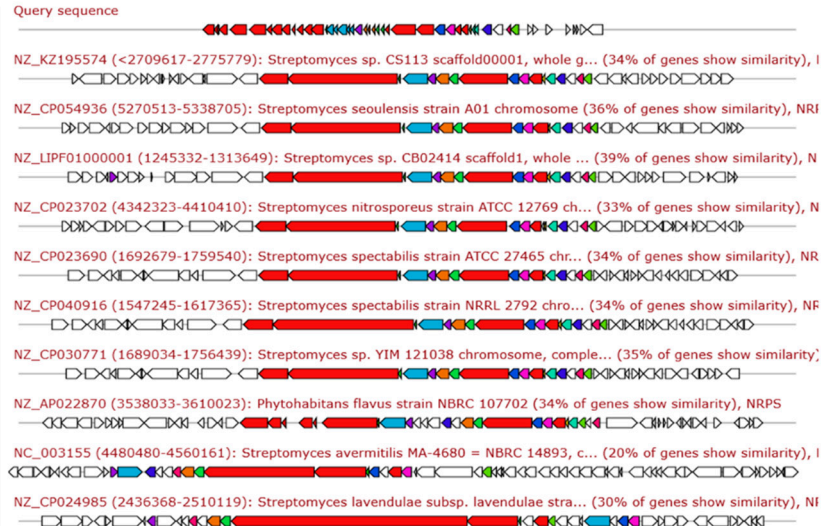


Figure S3: Terpene (hopene), KnownClusterBlast and ClusterBlast

#### KnownClusterBlast

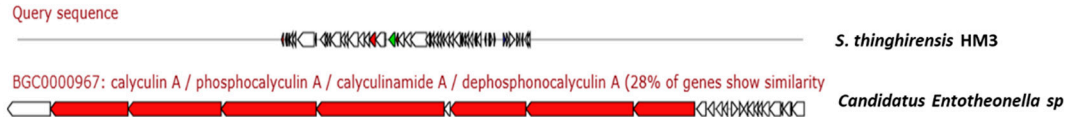


#### ClusterBlast

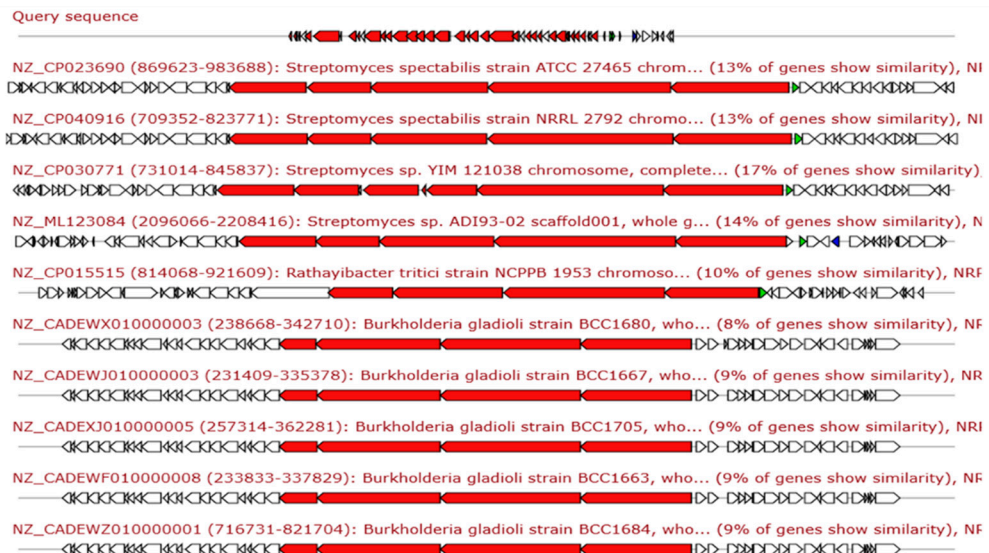


**Figure S4:** Non-ribosomal peptide synthetase cluster (NRPS), KnownClusterBlast and ClusterBlast

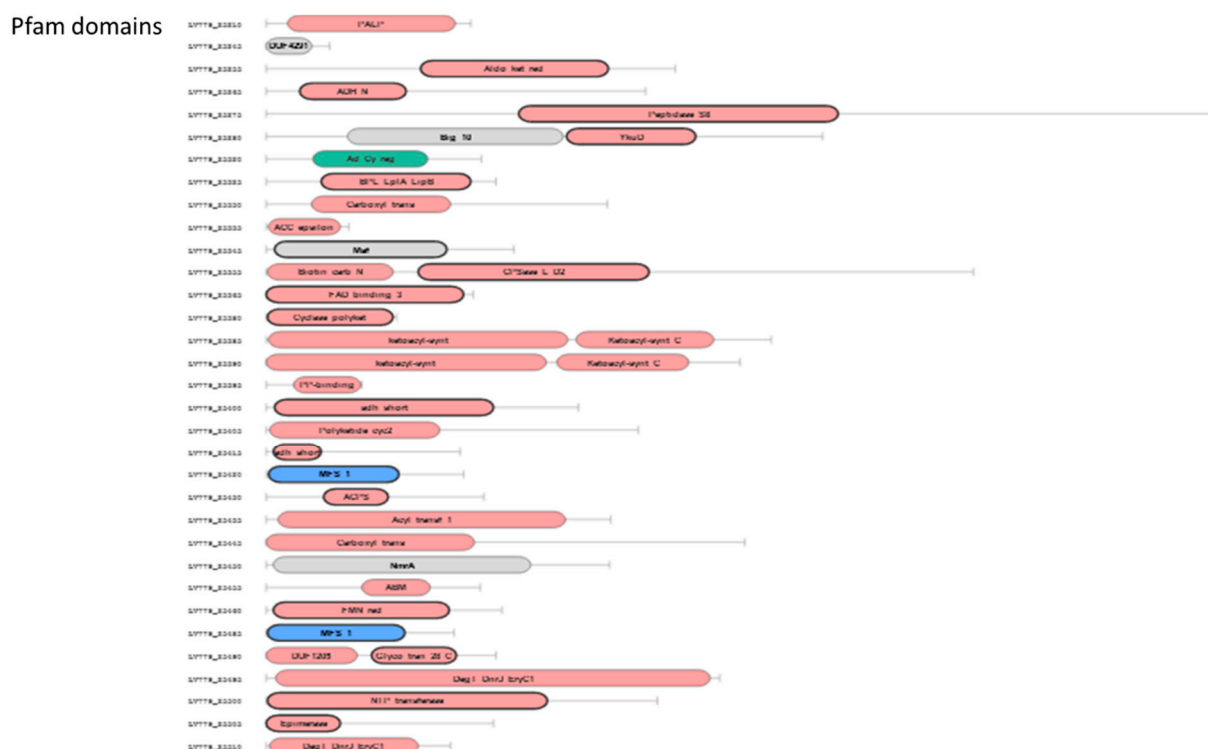
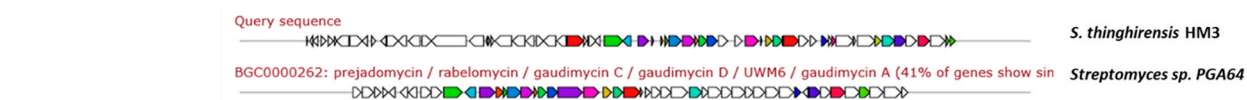
#### KnownClusterBlast



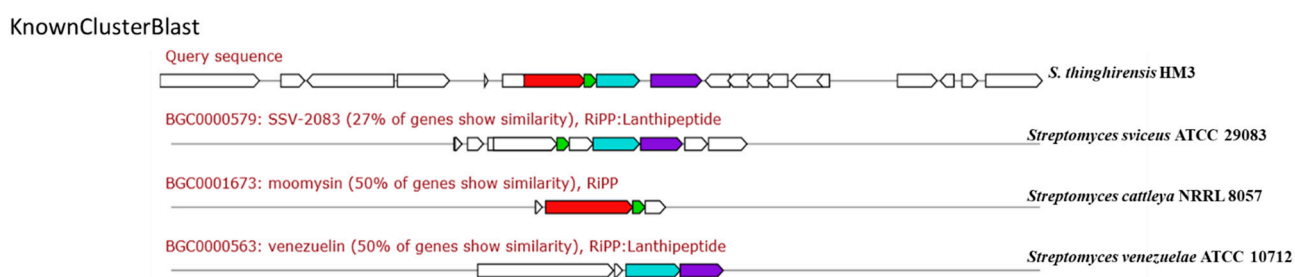
#### ClusterBlast



**Figure S5:** NRPS-like fragment/transAT-PKS-like, KnownClusterBlast and ClusterBlast



**Figure S6:** Type II PKS BCG based on KnownClusterBlast and Pfam domains.



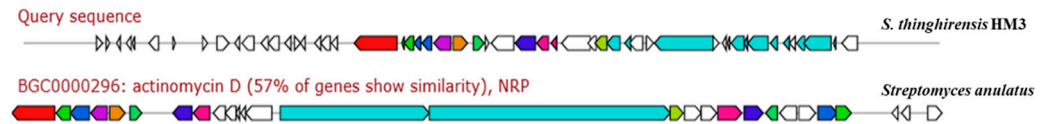
**Figure S7:** Ribosomally synthesised and post-translationally modified peptide product (RiPP) cluster/Lanthipeptide, KnownClusterBlast

Query sequence *S. thingii* HM3

BGC0000849: SCB1 / SCB2 / SCB3 (100% of genes show similarity), Other:Butyrolactone *Streptomyces coelicolor* A3(2)

BGC0000038: coelimycin P1 (12% of genes show similarity), Polyketide:Modular type I *Streptomyces coelicolor* A3(2)

KnownClusterBlast



**Figure S9:** Other, Cluster containing a secondary metabolite-related protein that does not fit into any other category (actinomycin D ), KnownClusterBlast