

**A Gene Cluster for Biosynthesis of the
Sesquiterpenoid Antibiotic Pentalenolactone in
Streptomyces avermitilis[†]**

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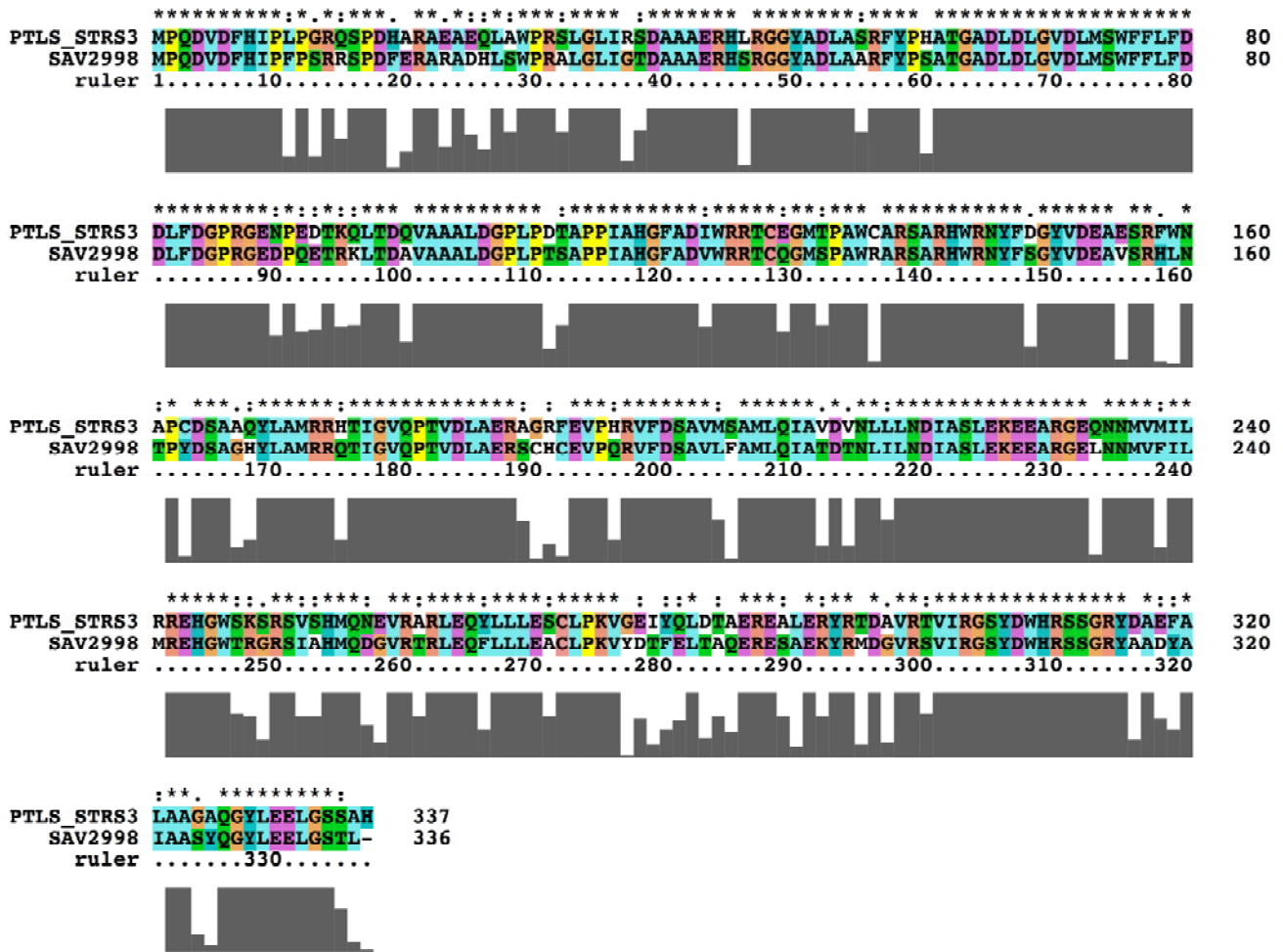


Figure S1. Sequence alignment (ClustalW) of *S. avermitilis* pentalenene synthase (PtlA, SAV2998) with pentalenene synthase of *Streptomyces* sp. UC5319 (gi: 2833457, sp: Q55012, PTL5_STRS3).

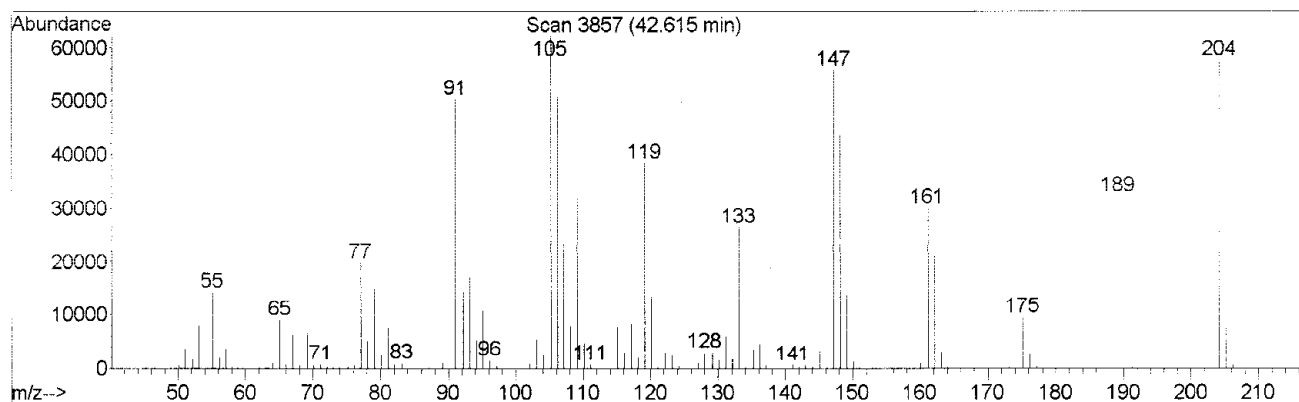


Figure S3. Mass spectrum of pentalenene (**3**) generated by incubation of farnesyl diphosphate with *S. avermitilis* pentalenene synthase. GC-MS was performed using a chiral 25 m x 0.25 mm hydrodex- β -6-TBDM column (Macherey-Nagel) with a temperature ramp of 45 °C to 180 °C at 2 °C/min and an inlet temperature of 150 °C.