

## Screening of polyketide synthase (PKS) gene clusters involved in the biosynthesis of secondary metabolites in *Streptomyces venezuelae*

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### Abstract

*Streptomyces venezuelae*, as compare to other *Streptomyces* species, grows much faster and disperses completely allowing large quantities of cell mass and metabolites to be harvested. Also, higher efficiency of transformation than in other species of *Streptomyces* has led us to choose this species for developing as a host bacterium. Study of partial genome sequence showed only about 1.2%genes producing polyketides including pikromycin and other types. In this study, we report screening of polyketide synthase (PKS) gene clusters associated with production of secondary metabolites other than picromycin from the genomic library of *S. venezuelae*.

**Keywords** : Secondary metabolites; PKS; Genomic library; *Streptomyces venezuelae*