

# Production of landomycins in *Streptomyces globisporus* 1912 and *S. cyanogenus* S136 is regulated by genes encoding putative transcriptional activators.

Rebets Y, Ostash B, Luzhetskyy A, Hoffmeister D, Brana A, Mendez C, Salas JA, Bechthold A, Fedorenko V (2003) Production of landomycins in *Streptomyces globisporus* 1912 and *S. cyanogenus* S136 is regulated by genes encoding putative transcriptional activators. *FEMS Microbiol Lett* 222, 149-153.

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## Abstract

The regulatory genes *lanI* and *lndI* have been cloned from the landomycin A (LaA) producer *Streptomyces cyanogenus* S136 and from the landomycin E (LaE) producer *Streptomyces globisporus* 1912, respectively and both have been sequenced. A culture of *S. globisporus* I2-1 carrying a disrupted *lndI* gene did not produce LaE and other related intermediates. Complementation of *S. globisporus* I2-1 with either the *lndI* or *lanI* gene reconstituted LaE production indicating that *LanI* and *LndI* are involved in activation of structural genes in the respective clusters. Structural features of these regulatory genes are discussed.

## Beteiligte Forschungseinheiten

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