The promoter of the *Streptomyces glaucescens* mel operon

Marcel Huber, Ralf Hütter1 and Konrad Lerch

Biochemisches Institut Universität Zürich and 1Mikrobiologisches Institut ETH Zürich, 8057 Zürich, Switzerland
Submitted September 8, 1987

The nucleotide sequence upstream of the *S. glaucescens* tyrosinase gene (1,2) including the promoter is presented. Downstream of the transcription initiation sites (1, shown by asterisks) an open reading frame (ORF 402) is found with a codon usage typically for *Streptomyces* genes (3). It is preceded by a reasonable ribosomal binding site (RB). The putative -35 and -10 regions are overlined. The function of the protein encoded by ORF 402 is unknown. However, the presence of a putative signal sequence suggests an extracellular location. Arrows indicate possible signal sequence cleavage sites (4). The structure of the signal sequence is similar to those of other *Streptomyces* genes with three clustered arginines located in front of a hydrophobic region. Amino acids identical to ORF 438 of the mel operon of *S. antibioticus* (5) are underlined.

![Nucleotide sequence](attachment:sequence.png)

**REFERENCES**
5. Bernan V. et al. (1985) Gene 37, 101-110