Genetic engineering of industrially useful *Streptomyces peucetius* ATCC 27952 strains for the overproduction doxorubicin

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Streptomyces peucetius subsp. caesius ATCC 27952 is the only organism reported to produce a clinically important chemotherapeutic agent doxorubicin (DXR), which is obtained commercially by the chemical conversion of the more abundant daunorubicin (DNR). Since DXR is expensive, the development of improved strains or processes for its production would be beneficial. Here we have constructed an integrative recombinant plasmid vector pSM_3 and transformed in *S. peucetius* by PEG-mediated protoplast transformation method. The enhancement of production can be checked by HPLC analysis.