

Title (en)

FACTOR RECA FROM BACILLUS LICHENIFORMIS AND RECA-INACTIVATED SAFETY STEMS USED FOR BIOTECHNOLOGICAL PRODUCTION

Title (de)

DER FAKTOR RECA AUS BACILLUS LICHENIFORMIS UND RECA-INKTIVIERTE SICHERHEITSSTÄMME FÜR DIE BIOTECHNOLOGISCHE PRODUKTION

Title (fr)

FACTEUR RECA DU BACILLUS LICHENIFORMIS ET SOUCHES DE SECURITE INACTIVEES RECA POUR LA PRODUCTION BIOTECHNOLOGIQUE

Publication

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Application

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Abstract (en)

[origin: WO2005095446A1] The invention relates to the factor RecA from Bacillus licheniformis DSM 13 (SEQ ID NO. 2), along with the associated gene recA (SEQ ID NO. 1), including related proteins and genes thereof, such as the variant indicated under SEQ ID NO. 31 and 32, among others. According to the invention, gene recA is used for constructing gram-positive bacterial safety stems for biotechnological production, among other things, by inactivating the same in the respective stems. In a special embodiment, said stems are provided with additional functional deletions in phase-IV sporulation genes, preferably in gene spoIV (in Bacillus licheniformis), gene yqfD (in B. subtilis), or the respective gene that is homologous thereto if said stems are naturally able to form spores. Furthermore, the inventive RecA represents a protein which can be used in molecular biological assays or for modulating the molecular biological activities of cells, especially in connection with DNA polymerization or recombination processes.

IPC 8 full level

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