

Title (en)

A PROCESS FOR THE PRODUCTION OF HUMAN INTERFERON ALPHA FROM GENETICALLY ENGINEERED YEAST

Title (de)

VERFAHREN ZUR HERSTELLUNG VON HUMANEM INTERFERON ALPHA AUS GENETISCH VERÄNDERTER HEFE

Title (fr)

PROCEDE PERMETTANT DE PRODUIRE DE L'INTERFERON ALPHA HUMAIN A PARTIR DE LEVURE GENETIQUEMENT MODIFIEE

Publication

**EP 1272624 A4 20040616 (EN)**

Application

**EP 00909584 A 20000316**

Priority

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Abstract (en)

[origin: WO0168827A1] A process for the production of physiologically-active human interferon alpha from genetically engineered yeast, *Pichia pastoris*, comprising digesting, with an enzyme to produce a linearized plasmid, a plasmid having a promoter and operationally linked to a human interferon alpha gene in the absence of a fusion region; transforming *Pichia pastoris* cells with the linearized plasmid by homologous recombination to form *Pichia pastoris* clones; screening the *Pichia pastoris* clones for high interferon alpha expression to find a high interferon-yielding *Pichia pastoris* clone; growing the high interferon-yielding *Pichia pastoris* clone; and purifying physiologically-active human interferon alpha protein from the high interferon-yielding *Pichia pastoris* clones.

IPC 1-7

**C12N 15/00**; **C12N 5/10**; **C12N 1/15**; **C12N 1/16**; **C12P 21/02**; **C07K 14/47**; **C07K 14/555**

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CPC (source: EP)

**C07K 14/56** (2013.01)

Citation (search report)

- [X] EP 0606917 A2 19940720 - GREEN CROSS CORP [JP]
- [A] CREGG J M ET AL: "RECENT ADVANCES IN THE EXPRESSION OF FOREIGN GENES IN PICHIA PASTORIS", BIO/TECHNOLOGY, NATURE PUBLISHING CO. NEW YORK, US, vol. 11, no. 8, August 1993 (1993-08-01), pages 905 - 910, XP001093882, ISSN: 0733-222X
- [A] ROSENFELD: "Use of *P. pastoris* for expression of recombinant proteins", METHODS IN ENZYMOLOGY, vol. 306, 1999, pages 154 - 169, XP009029632
- See references of WO 0168827A1

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