Title (en)
METHOD FOR CREATING POLYNUCLEOTIDE MOLECULES

Title (de)
VERFAHREN ZUR ERZEUGUNG VON POLYNUKLEOTIDMOLEKÜLEN

Title (fr)
PROCEDE DE PRODUCTION DE MOLECULES DE TYPE POLYNUCLEOTIDES

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Application
EP 03730082 A 20030521

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Abstract (en)
[origin: WO03100058A2] The invention relates to methods for creating polynucleotide molecules with modified characteristics, said methods running through a cycle comprising the following steps:(a) provision of a double-stranded polynucleotide molecule or a population of double-stranded polynucleotide molecules, the individual polynucleotides of said population having at least one homologous sequence part and at least one heterologous sequence part,(b) creation of single-strand breaks in the double-stranded polynucleotide molecules, (c) nucleolytic degradation in the 5'} 3' direction starting from the single-strand breaks with simultaneous new synthesis in the 5' } 3' direction and shifting of the single-strand breaks in the direction of the 3' end, (d) production of single-stranded polynucleotide molecules, (e) production of partially double-stranded polynucleotide molecules of the single-stranded polynucleotide molecules provided in step (d), (f) template-directed nucleic acid synthesis starting from the partially double-stranded polynucleotide molecules produced in step (e), whereby steps (b) and (c) can be carried out in succession or simultaneously.

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