

Title (en)
ENZYMATIC SYNTHESIS OF ssDNA

Title (de)
ENZYMATISCHE SYNTHESE VON SSDNA

Title (fr)
SYNTHESE ENZYMATIQUE D'ADN SIMPLE BRIN

Publication
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Application
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Abstract (en)
[origin: WO0022113A1] Methods and compositions for producing single-stranded cDNA (ss-cDNA) with a vector-based system in eukaryotic cells. The vector contains all necessary signaling instructions and enzymatic functions to allow the host cell to produce the ssDNA encoding a desired nucleic acid sequence (a "sequence of interest"). Described are the components included in the vector for synthesizing ssDNA in vivo. They include (1) a reverse transcriptase gene, (2) a genetic element that supplies the template for the desired ssDNA sequence of interest, and (3) a second genetic element located proximal to the genetic element encoding the sequence of interest that supplies the primer site for reverse transcription by the reverse transcriptase molecule. The vector also contains appropriate promoter(s)/enhancer(s). Also described herein is a method to construct a vector including these components.

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