

Title (en)  
DETECTION, CLONING AND SEQUENCING OF POLYPEPTIDES WHICH DRIVE THE SUBCELLULAR LOCALIZATION OF PROTEINS

Title (de)  
ERKENNUNG, KLONIERUNG UND SEQUENZIERUNG VON POLYPEPTIDEN, DIE DIE SUBZELLULÄRE LOKALISIERUNG VON PROTEINEN STEUERN

Title (fr)  
DETECTION, CLONAGE ET SEQUENAGE DE POLYPEPTIDES QUI COMMANDENT LA LOCALISATION SUBCELLULAIRE DE PROTEINES

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Abstract (en)  
[origin: WO0056875A1] The present invention concerns a process for the detection, cloning and/or sequencing of polypeptides or parts thereof, which drive the subcellular localization of a protein containing such polypeptide or part thereof, characterized in that the process comprises the following steps: (a) constructing an expression library of random nucleic acids ligated to a reporter gene and contained in a vector molecule, (b) transfecting a plurality of host cells with the library, (c) screening for the subcellular localization of the expression product of the nucleic acid in the host cells via detection of a signal produced by the reporter gene, (d) cloning such cells where the reporter gene signal is detected in a certain subcellular localization, and (e) cloning and optionally sequencing the nucleic acid insert which encodes the polypeptide or part thereof. Polypeptides, driving the intracellular localization can be used to construct fusion proteins with predetermined intracellular localization.

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Citation (examination)  
Fujii et al: Experimental Cell Research, September 1999, Pages 299-306, 'Analysis of Nuclear Localization Signals using Green Fluorescent Protein-Fusion Protein Library'.

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