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(54) Title: SHUFFLING OF HETEROLOGOUS DNA SEQUENCES

(57) Abstract

The present invention relates to a new method of shuffling especially heterologous polynucleotide sequences, screening and/or selection of new recombinant proteins resulting therefrom having a desired biological activity, and especially to production and identification of novel proteases exhibiting desired properties. The method comprises the following steps; i) identification of at least one conserved region between the heterologous sequences of interest; ii) generating fragments of each of the heterologous sequences of interest, wherein said fragments comprise the conserved region(s), in a preferred embodiment due to the use of parts of the regions(s) as primers; and iii) shuffling/recombining said fragments using the conserved region(s) as (a) homologous linking point(s).