

Title (en)

METHODS OF GENERATING ZINC FINGER NUCLEASES HAVING ALTERED ACTIVITY

Title (de)

VERFAHREN ZUR ERZEUGUNG VON ZINKFINGERNUKLEASEN MIT VERÄNDERTER WIRKUNG

Title (fr)

PROCÉDÉS DE PRODUCTION DE NUCLÉASES EN DOIGT DE ZINC AYANT UNE ACTIVITÉ MODIFIÉE

Publication

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Application

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Abstract (en)

[origin: WO2011091324A2] Provided herein are zinc finger nucleases having altered, and in particular, improved catalytic activity and methods of generating such nucleases. Accordingly, there are provided methods for identifying improved catalytic activity of a ZFN by expressing a mutated zinc finger nuclease in a cell containing a reporter construct with a toxic gene, and a zinc finger nuclease cleavage site that is recognized by the ZFN. Survival of the cell is positively correlated with catalytic activity of the ZFN; thus, libraries of mutated ZFNs may be selected for altered catalytic activity based on relative survival rates. Methods of using identified ZFNs are also provided.

IPC 8 full level

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