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(54) Title: MEGANUCLEASE VARIANTS CLEAVING A DNA TARGET SEQUENCE FROM THE MOUSE ROSA26 LOCUS AND USES THEREOF

(57) Abstract: An I-*Cre*I variant, wherein one of the two I-*Cre*I monomers has at least two substitutions, one in each of the two functional subdomains of the LAGLIDADG core domain situated respectively from positions 26 to 40 and 44 to 77 of I-CreI, said variant being able to cleave a DNA target sequence from the mouse ROSA26 locus. Use of said variant and derived products for the engineering of transgenic mice and recombinant mouse cell lines expressing an heterologous protein of interest.

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