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(54) Title: METHODS AND COMPOSITIONS FOR MODIFYING GENOMIC DNA

(57) Abstract: Compositions and methods concern the sequence modification of an endogenous genomic DNA region. Certain aspects relate to a method for site-specific sequence modification of a target genomic DNA region in cells comprising: transfecting the cells by electroporation with a composition comprising (a) a DNA oligo and (b) a DNA digesting agent wherein the donor DNA comprises: (i) a homologous region comprising nucleic acid sequence homologous to the target genomic DNA region and (ii) a sequence modification region; and wherein the genomic DNA sequence is modified specifically at the target genomic DNA region.