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(54) Title: STEM CELL GENE TARGETING

(57) Abstract: The invention provides a method for generating a transgenic eukaryotic cell population having a modified *human Rosa26* locus, which method includes introducing a functional DNA sequence into the *human Rosa26* locus of starting eukaryotic cells. Also provided are targeting vectors useful in the method, as well as a cell population and a transgenic non-human animal comprising a modified *human Rosa26* locus. Finally, the invention provides an isolated DNA sequence corresponding to the *human Rosa26* locus.



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