NON-HUMAN ANIMALS COMPRISING A HUMANIZED COAGULATION FACTOR 12 LOCUS

ABSTRACT

Non-human animal genomes, non-human animal cells, and non-human animals comprising a humanized coagulation factor XII (F12) locus and methods of making and using such non-human animal genomes, non-human animal cells, and non-human animals are provided. Non-human animal cells or non-human animals comprising a humanized F12 locus express a human coagulation factor XII protein or a chimeric coagulation factor XII protein, fragments of which are from human coagulation factor XII. Methods are provided for using such non-human animals comprising a humanized F12 locus to assess in vivo efficacy of human- coagulation-factor-XII-targeting reagents such as nuclease agents designed to target human F12. A short isoform of F12 that is produced locally in the brain, and methods of using the short isoform, are also provide.

[Figure 1]