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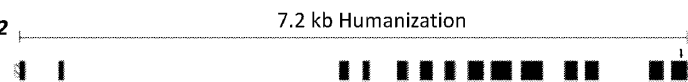
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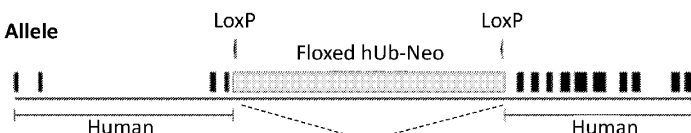
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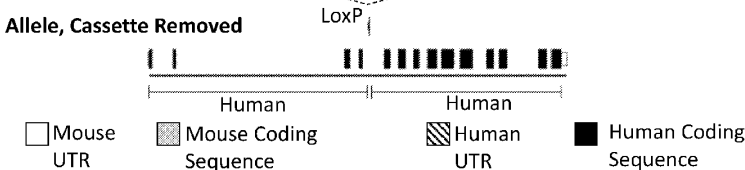
(54) Title: NON-HUMAN ANIMALS COMPRISING A HUMANIZED COAGULATION FACTOR 12 LOCUS

Mouse *F12*Human *F12*

Targeted Allele



Targeted Allele, Cassette Removed



□ Mouse UTR ■ Mouse Coding Sequence ▨ Human UTR ■ Human Coding Sequence

FIG. 1

(57) **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.

[Continued on next page]

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- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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