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(54) Title: UNIVERSAL DONOR CELLS

CyT49 B2M gRNA Cutting Efficiency

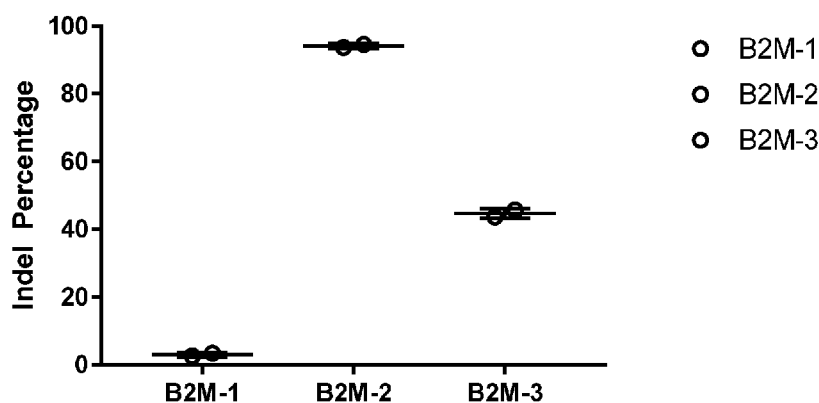


FIG. 1

(57) **Abstract:** Genetically modified cells that are compatible with multiple subjects, e.g., universal donor cells, and methods of generating said genetic modified cells are provided herein. The universal donor cells comprise at least one genetic modification within or near at least one gene that encodes a survival factor, wherein the genetic modification comprises an insertion of a polynucleotide encoding a tolerogenic factor. The universal donor cells may further comprise at least one genetic modification within or near a gene that encodes one or more MHC-I or MHC-II human leukocyte antigens or a component or a transcriptional regulator of a MHC-I or MHC-II complex, wherein said genetic modification comprises an insertion of a polynucleotide encoding a second tolerogenic factor.



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