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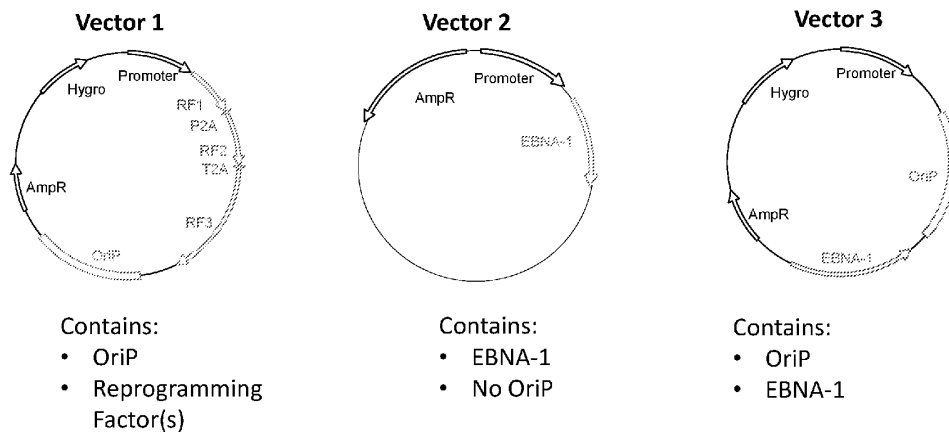


FIG. 1

(57) Abstract: Provided are methods and compositions for inducing the reprogramming of a non-pluripotent to an iPSC having desirable properties using a vector system providing transient and temporal expression of transgenes that are short-lived. Also provided are reprogramming cells and iPSC populations or clonal cell lines using the provided reprogramming methods and compositions. Further provided are genome-engineered iPSCs and derived cells redifferentiated therefrom to comprise targeted editing involving insertions and deletions in one or more selected genomic loci.

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