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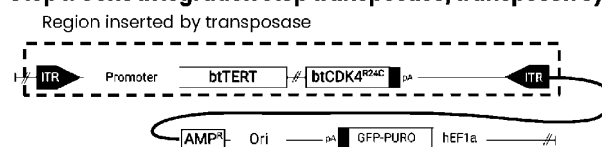
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(54) Title: TRANSPOSON SYSTEM AND METHODS OF USING THE SAME

Step 1: Gene integration step transposase/transposon system



Step 2: Completion of gene integration

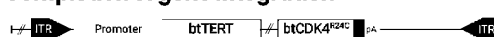


FIG. 1

(57) Abstract: Provided herein are transposon/transposase systems for transposing and selecting of transposed cells where the system includes a transposase or polynucleotide encoding a transposase; and an exogenous nucleic acid sequence comprising: a transposon comprising: a 5' inverted terminal repeat (ITR), a first polynucleotide encoding a gene of interest; and a 3' inverted terminal repeat (ITR); and (ii) a polynucleotide encoding an at least first selection marker located outside of the 5' ITR and 3' ITR, where upon introducing (a) and (b) into a cell the transposon is transposed into the cell's genome and the polynucleotide encoding the selection marker is episomal.

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