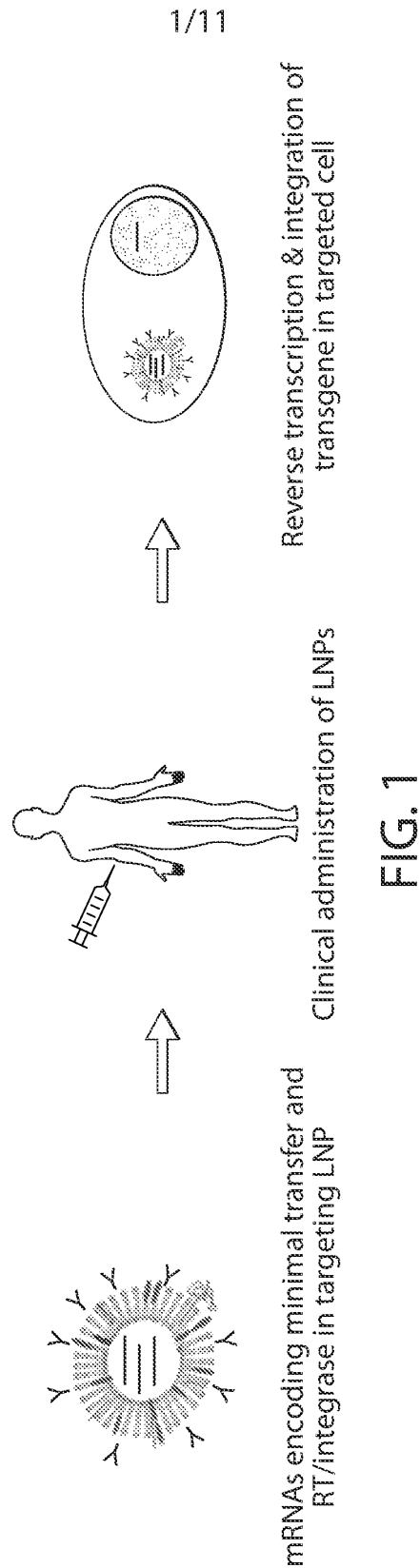




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	Non-dividing cells*	Genome integration	Expression site	Transgene capacity	Production titer	Major advantage	Major challenge
CRISPR/Cas9		✓	Site-specific	++	NA	Gene editing	Edits dividing cells only
Retrovirus		✓	Actively transcribed genes	++	+	Integration	Edits dividing cells only; potential genotoxicity
Lentivirus	✓	✓	Actively transcribed genes	++	++	Integration	Potential genotoxicity
Herpesvirus	✓		Episomal	+++++	+++	Transgene capacity	Dosing requirements
Adenovirus	✓		Episomal	+++	++++	Production titer	Dosing requirements
AAV	✓		Episomal	+	+++++	Production titer	Capacity; potency; repeated dosing

FIG. 2

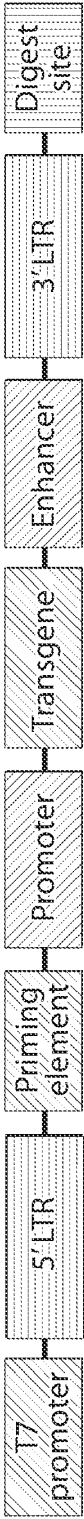


FIG. 3

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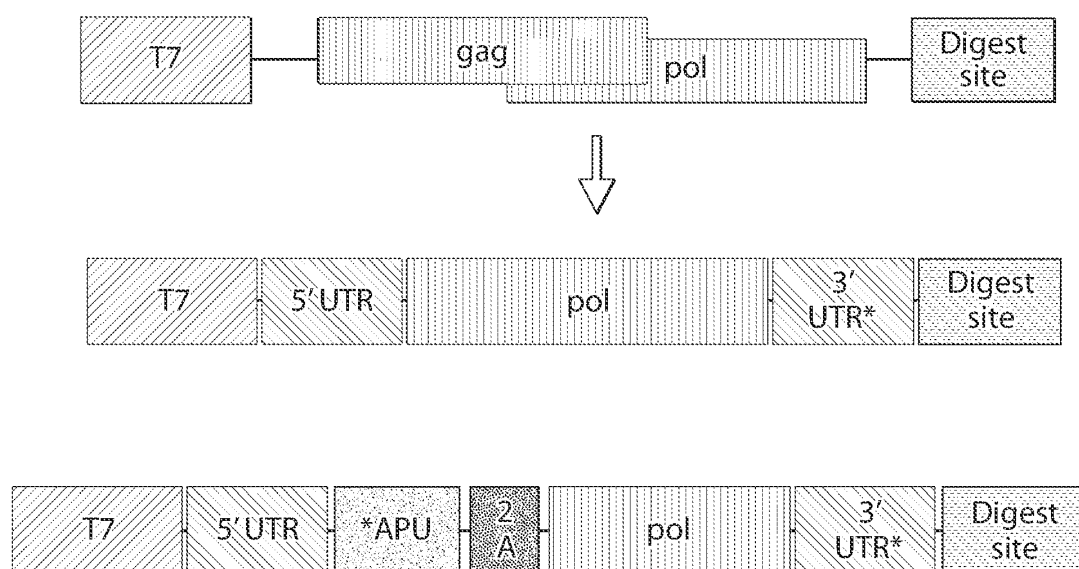


FIG. 4



FIG. 5A



FIG. 5B

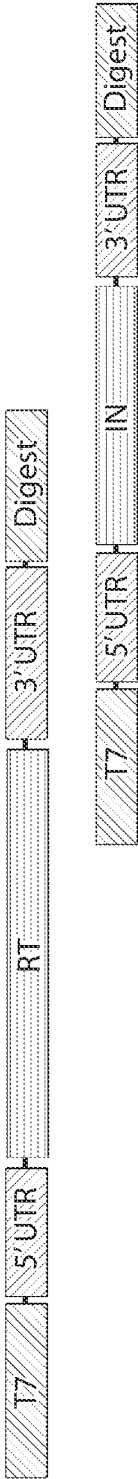


FIG. 5C

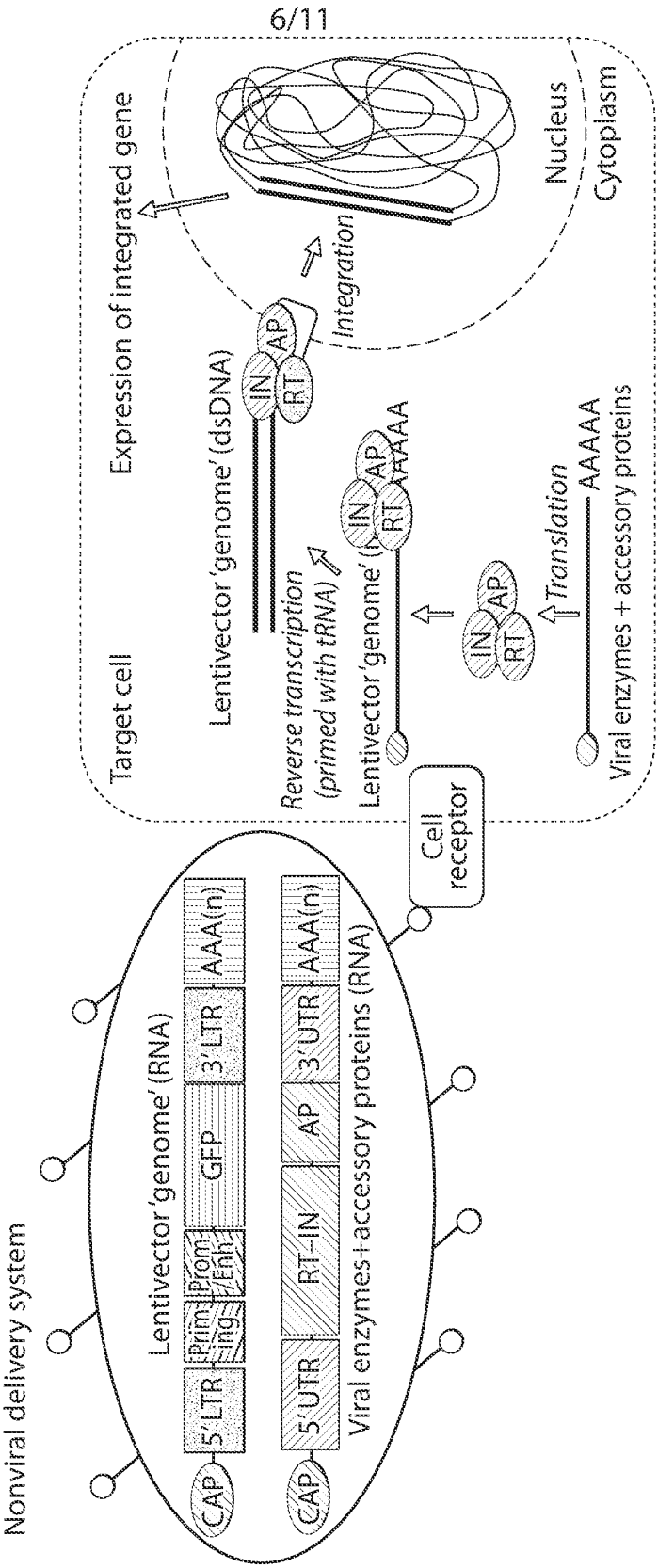


FIG. 6

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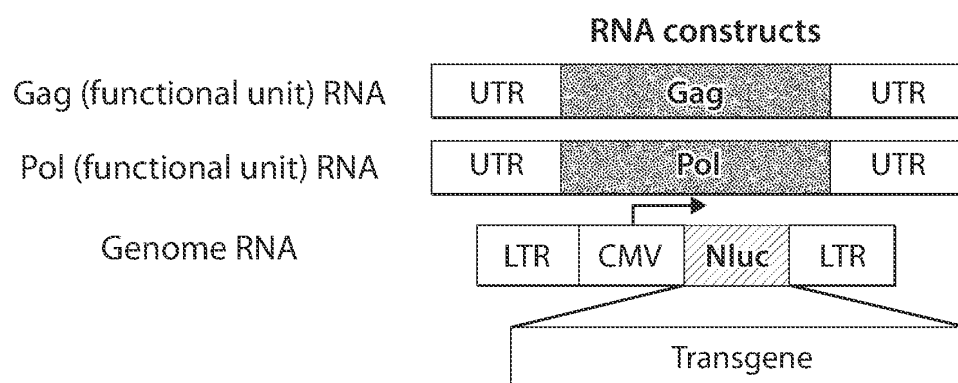


FIG. 7A

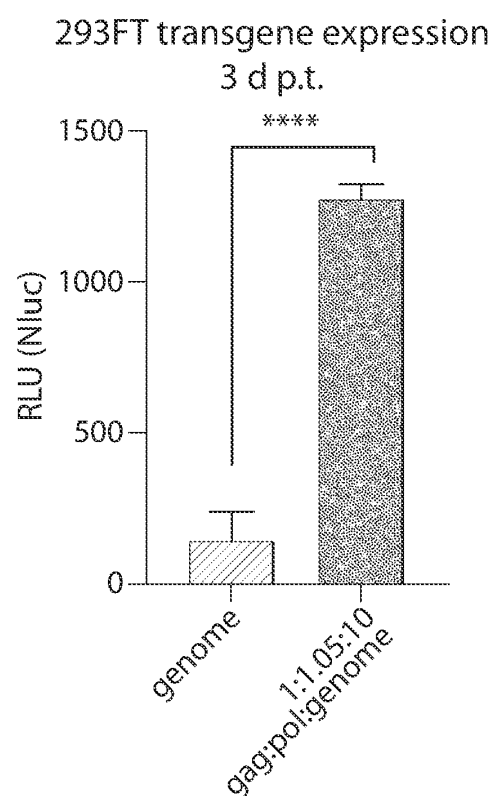


FIG. 7B

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Integrase Functional Unit RNA Constructs

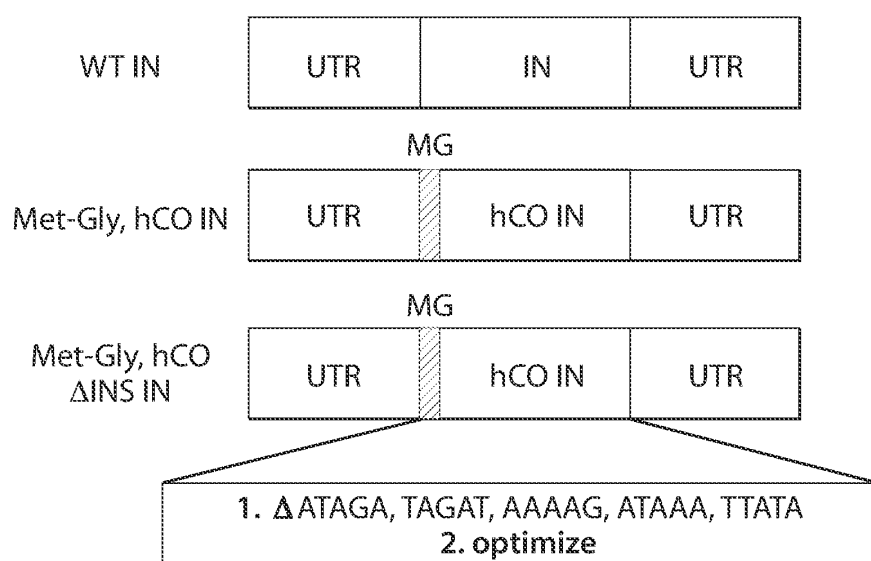


FIG. 8A

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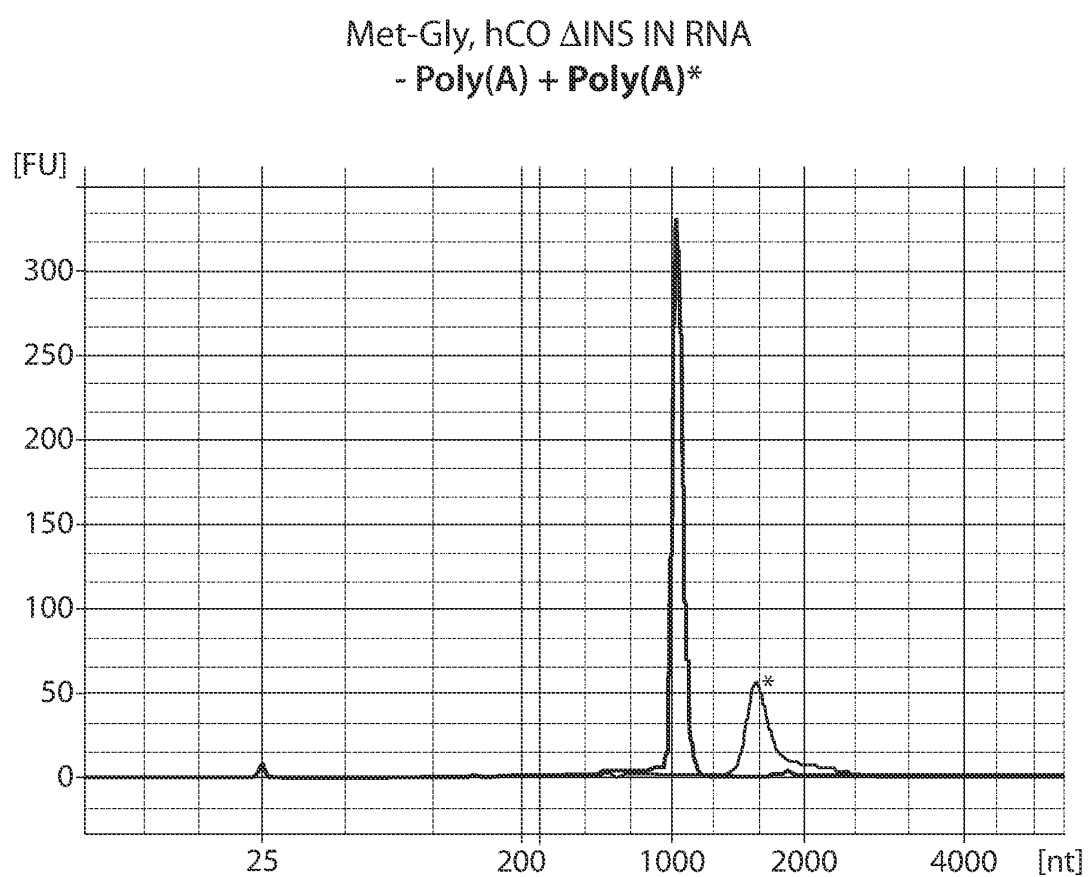


FIG. 8B

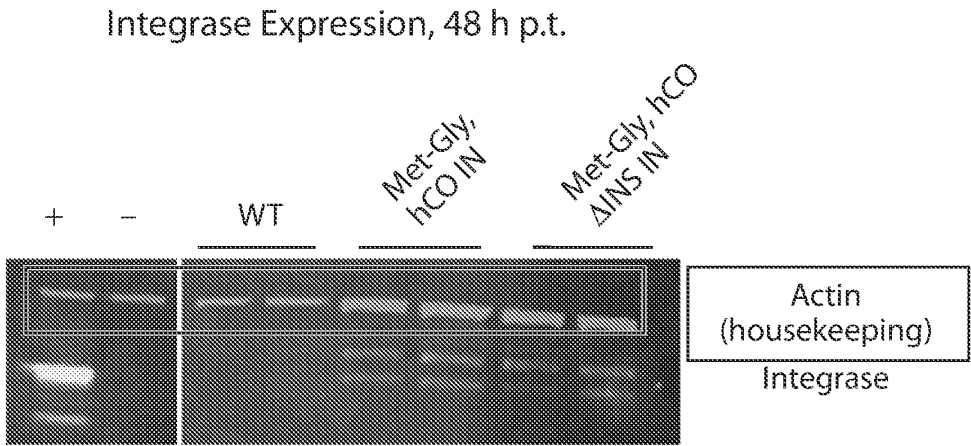


FIG. 8C

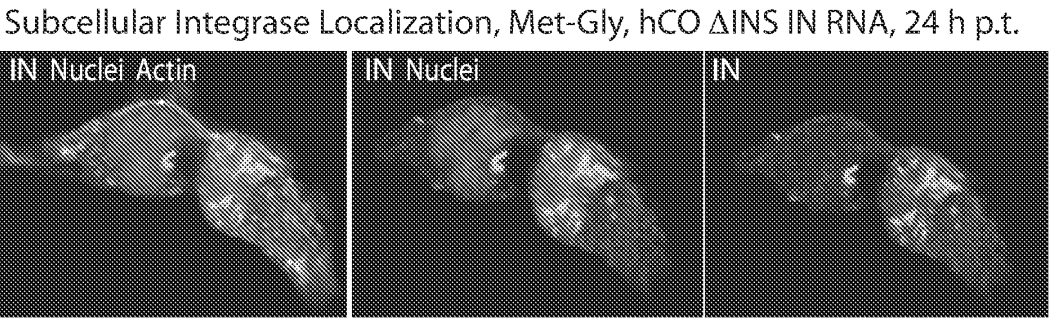


FIG. 8D

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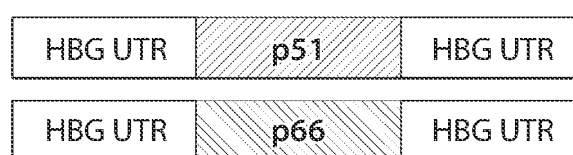


FIG. 9

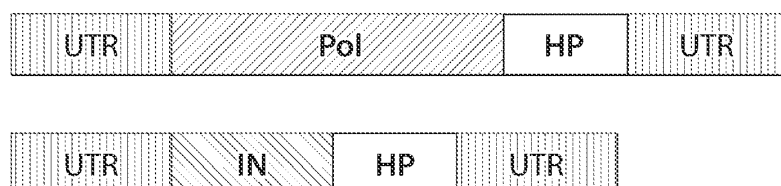


FIG. 10