

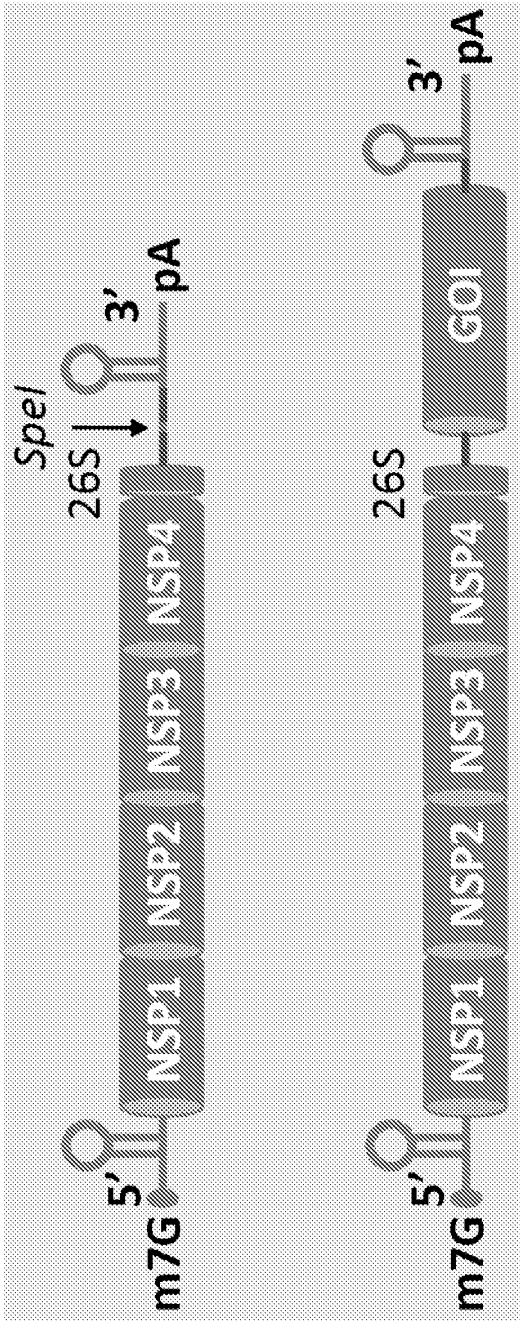


FIG. 1A

FIG. 1B

CHIKV S27 empty vector
with universal adaptor

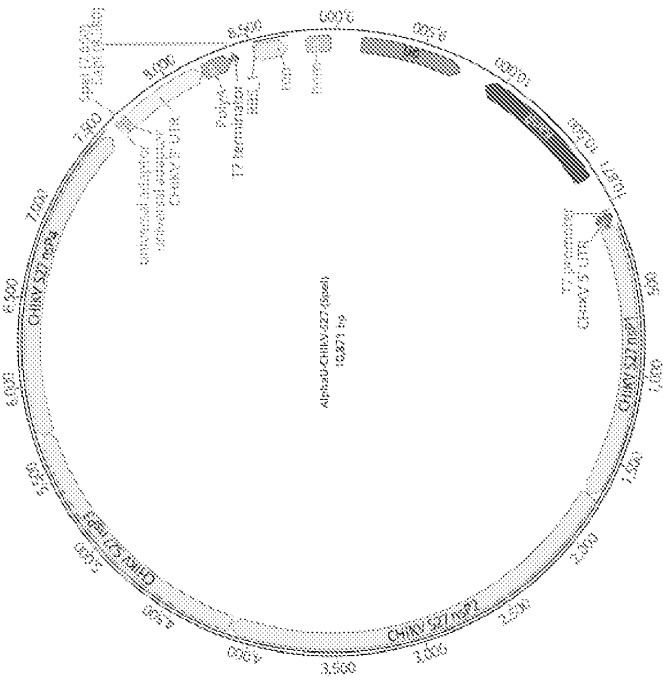


FIG. 2B

VEE empty vector
with universal adaptor

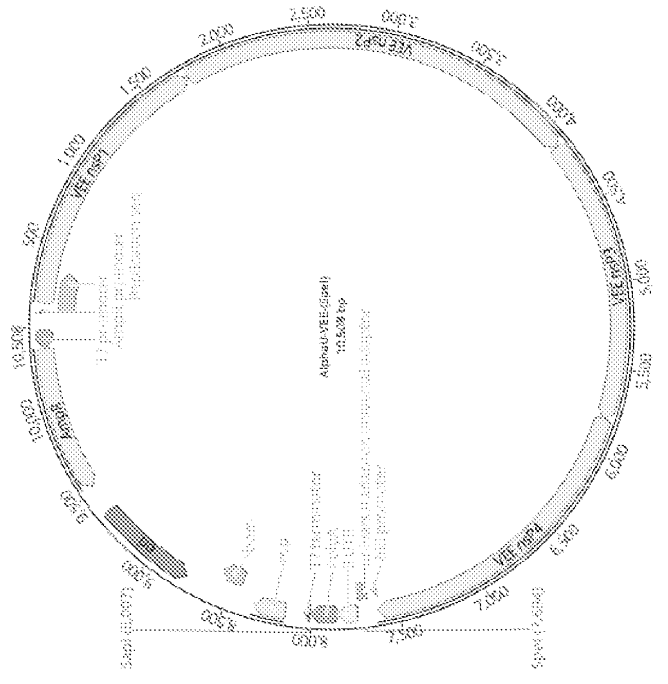


FIG. 2A

**EEEV FL93-939 empty vector
with universal adaptor**

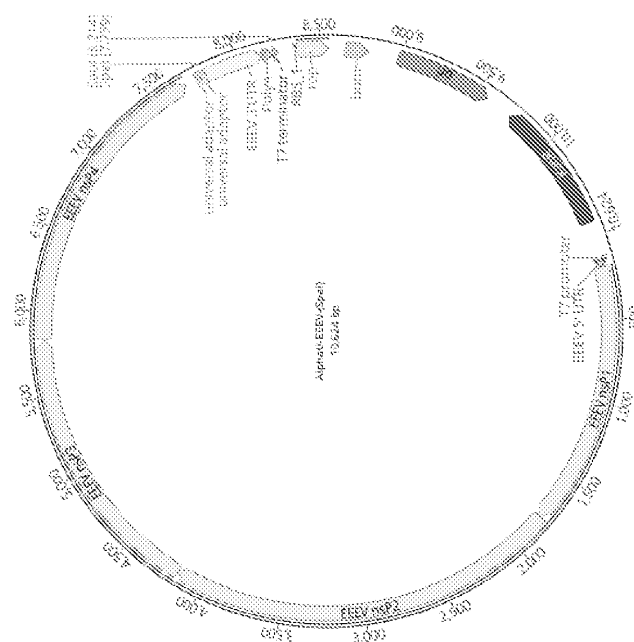
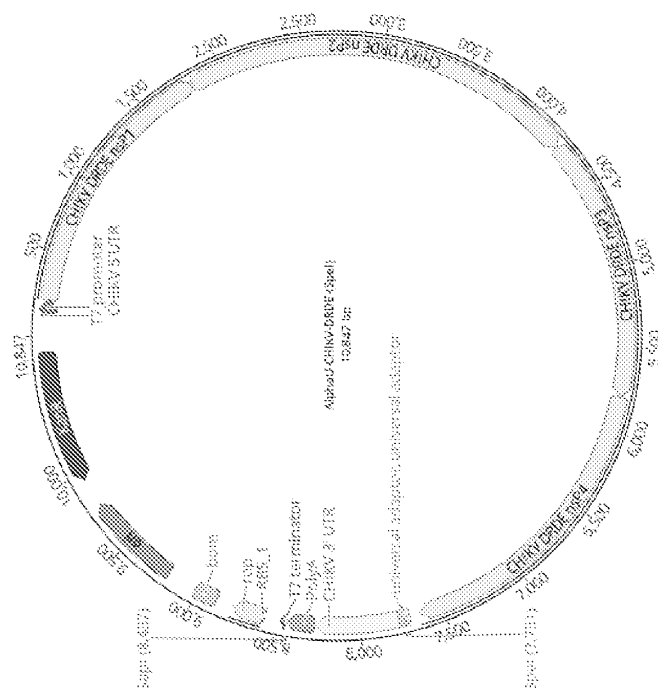
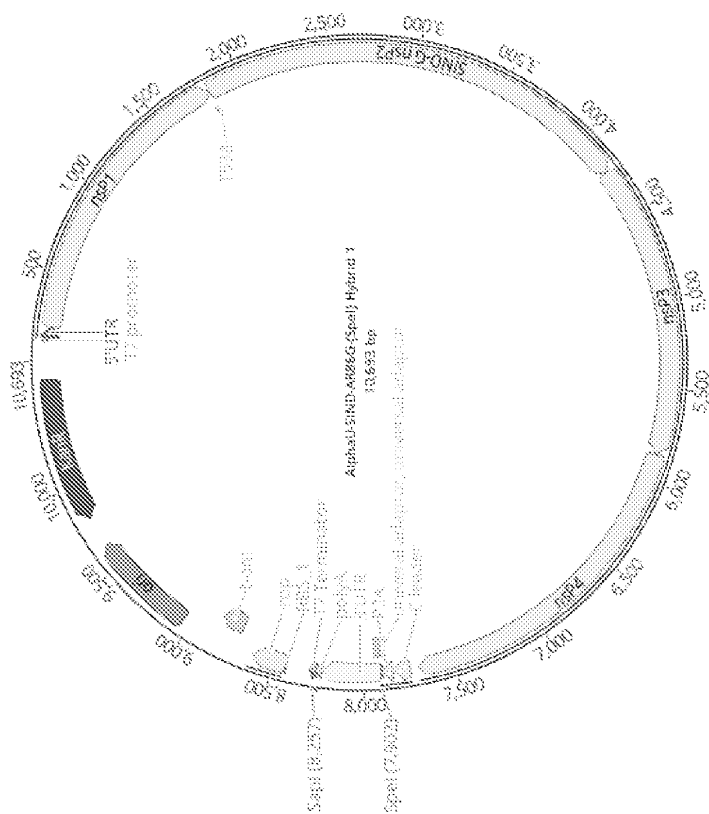


FIG. 2D

**CHIKV DRDE empty vector
with universal adaptor**



SINV AR86-Girdwood chimera 1 empty vector
with universal adaptor



SINV AR86-Girdwood Hybrid 1 with GOI

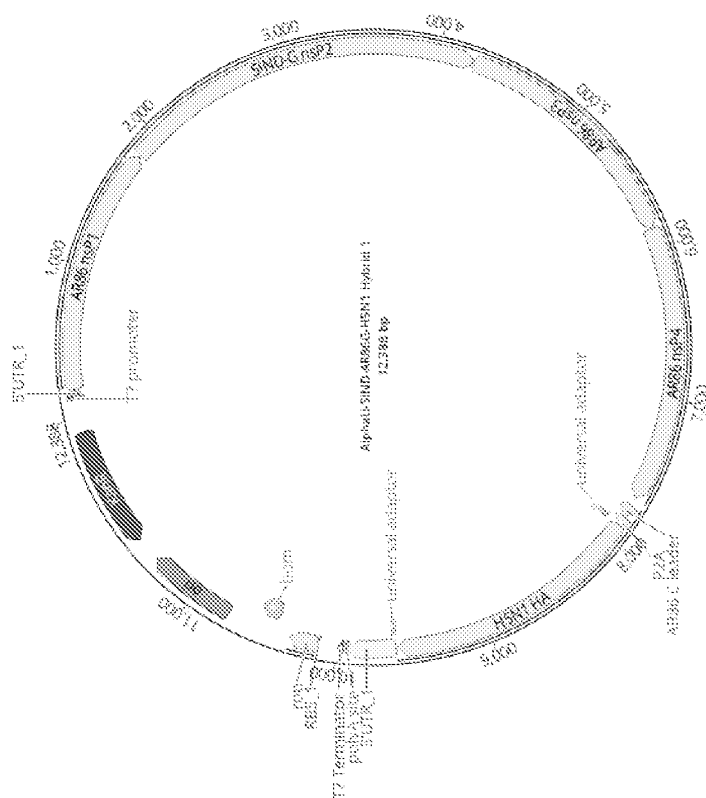
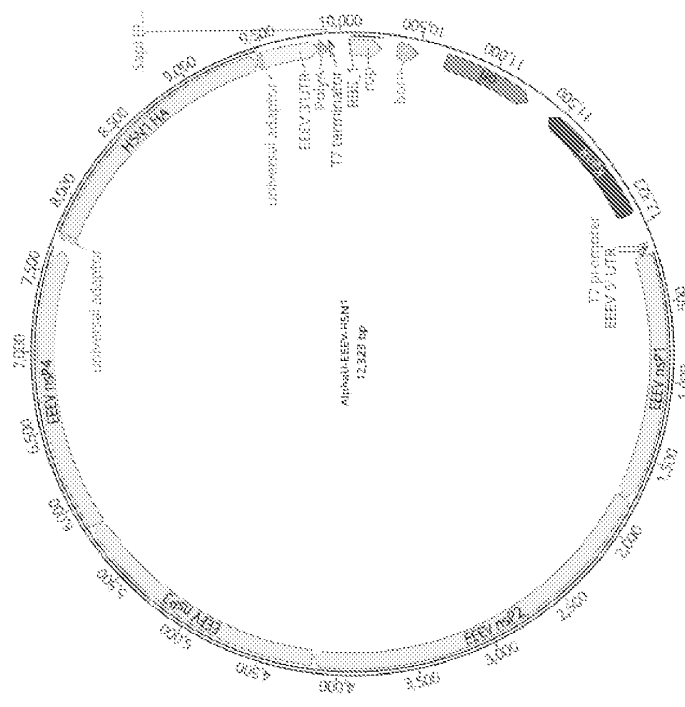


FIG. 3B

EEEV FL93-939 vector with GOI



SINV AR86-Girdwood Hybrid 3 with GOI

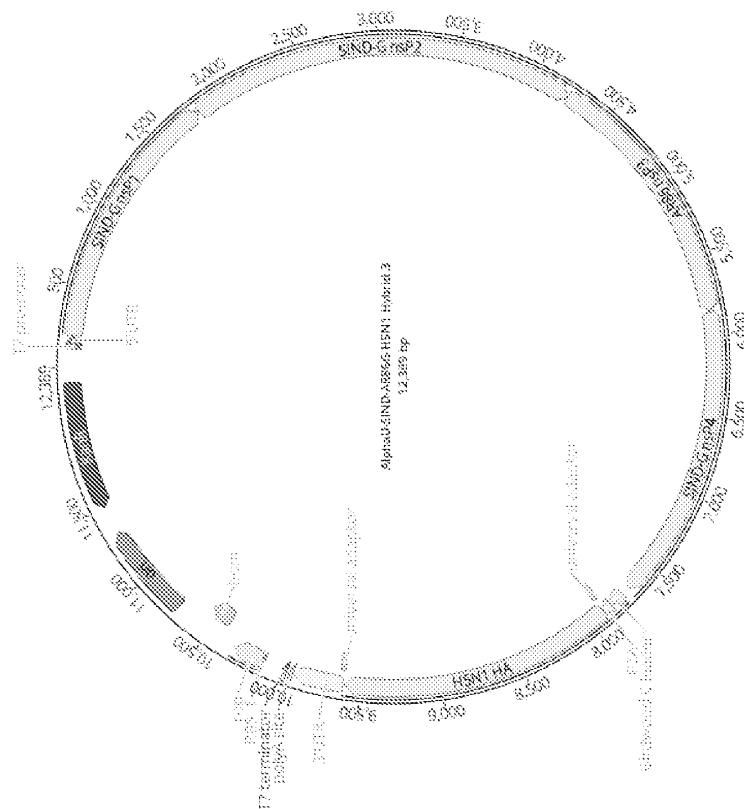


FIG. 3D

SINV AR86-Girdwood Hybrid 2 with GOI

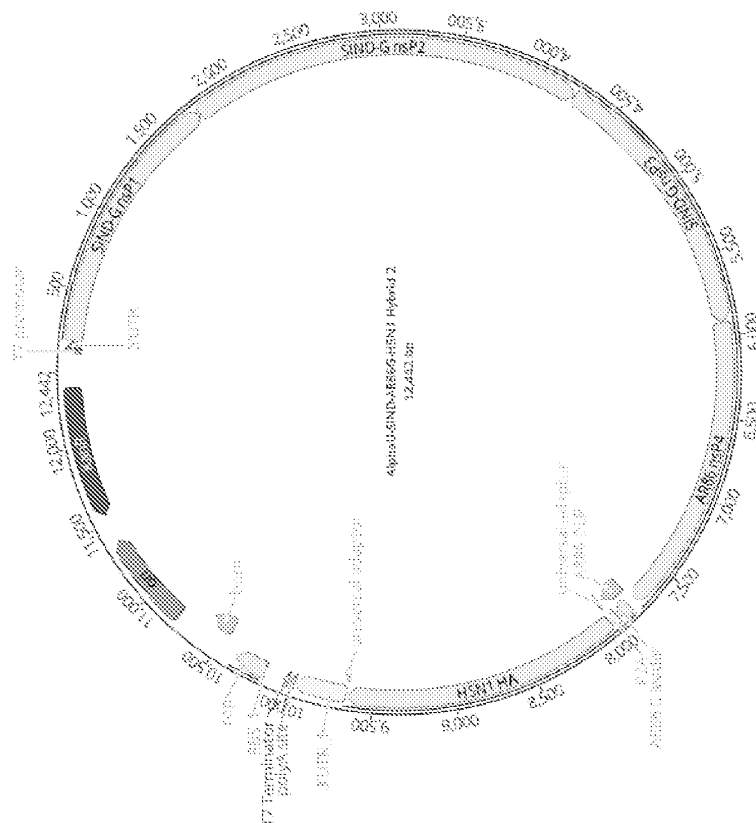


FIG. 3C

**SINV AR86-Girdwood Hybrid 4
with GOI**

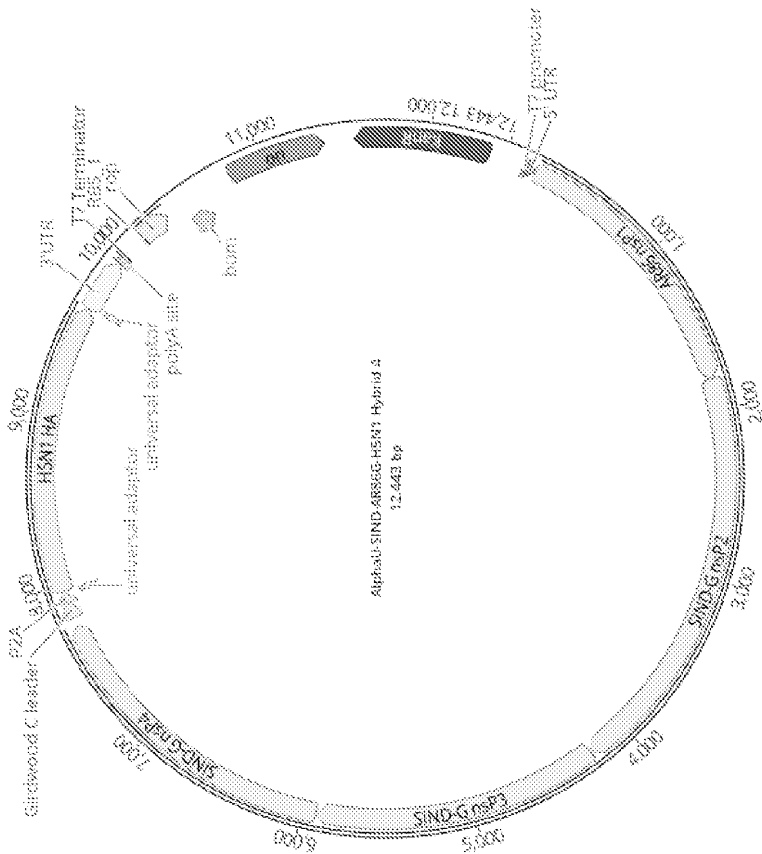


FIG. 3E

Strain

Schematic

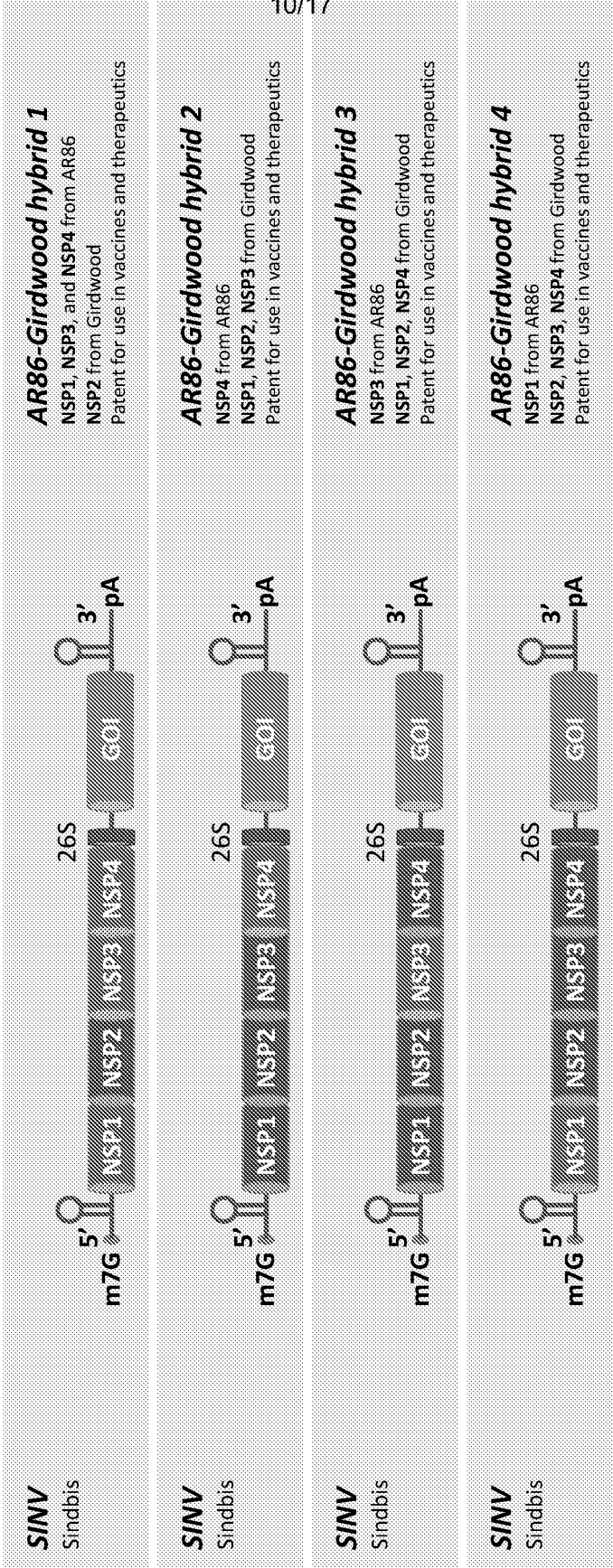


FIG. 3F

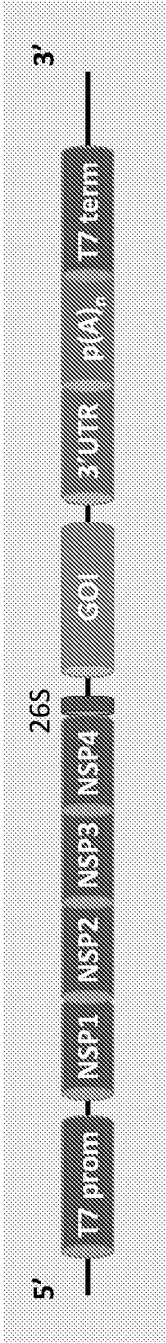


FIG. 4A

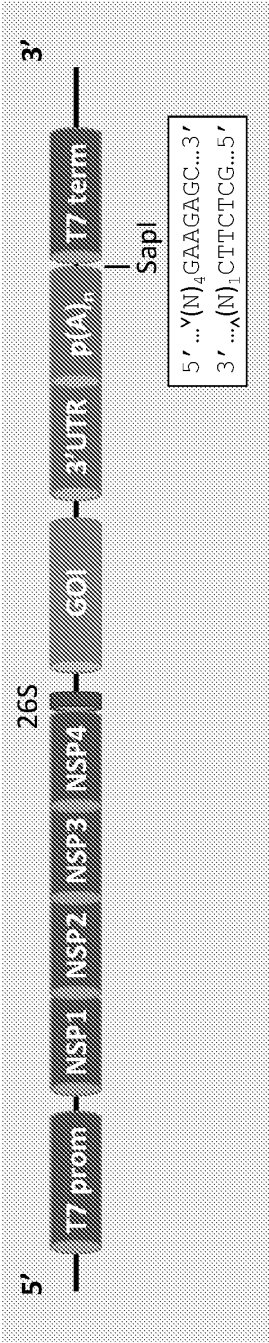


FIG. 4B

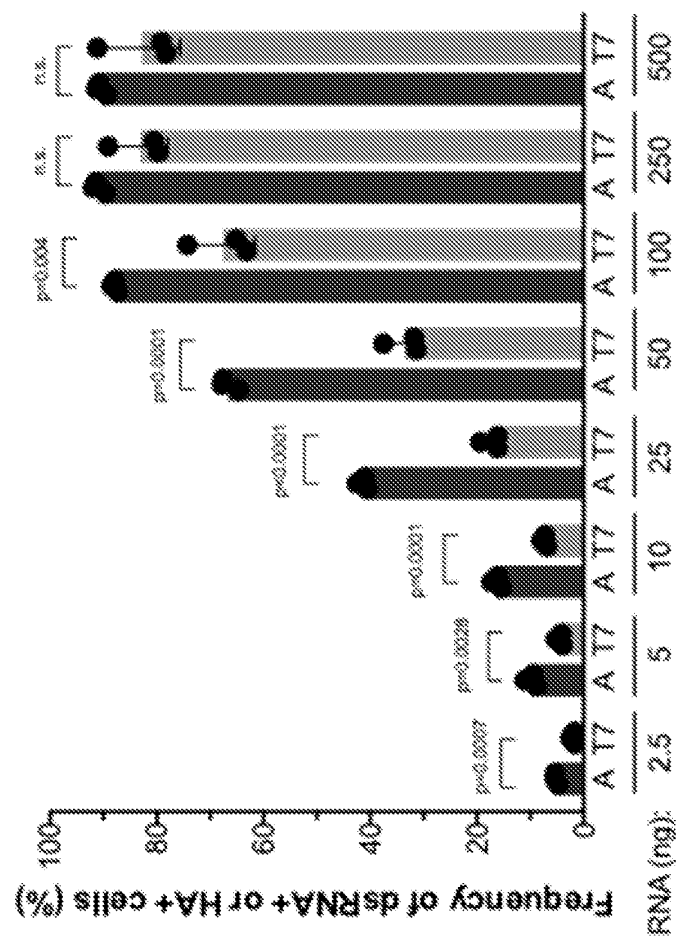


FIG. 5

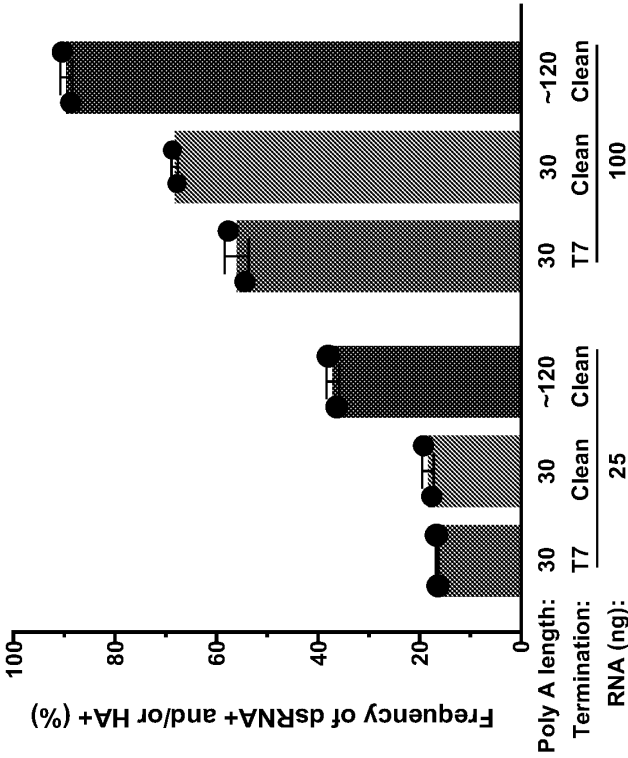


FIG. 6



FIG. 7

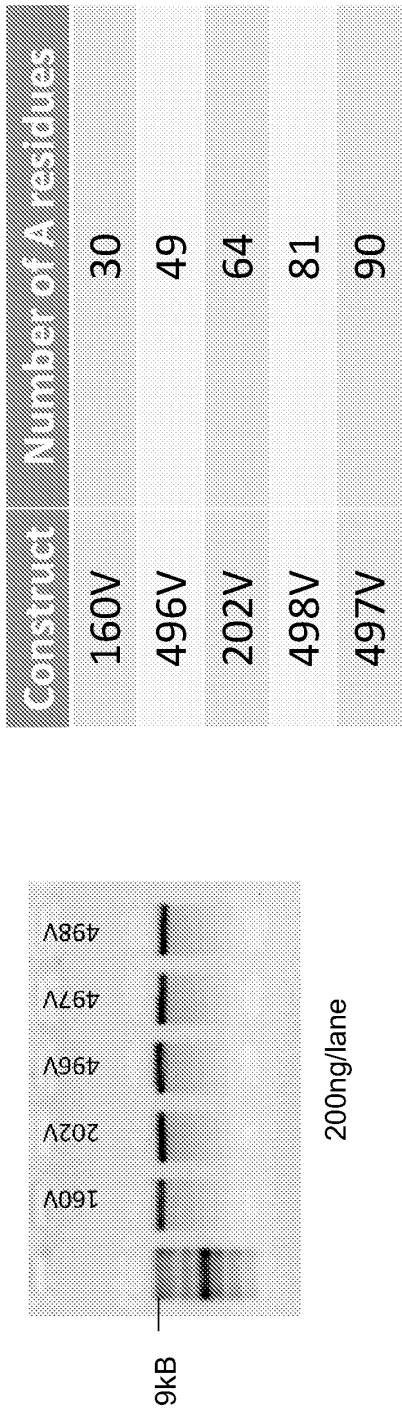


FIG. 8

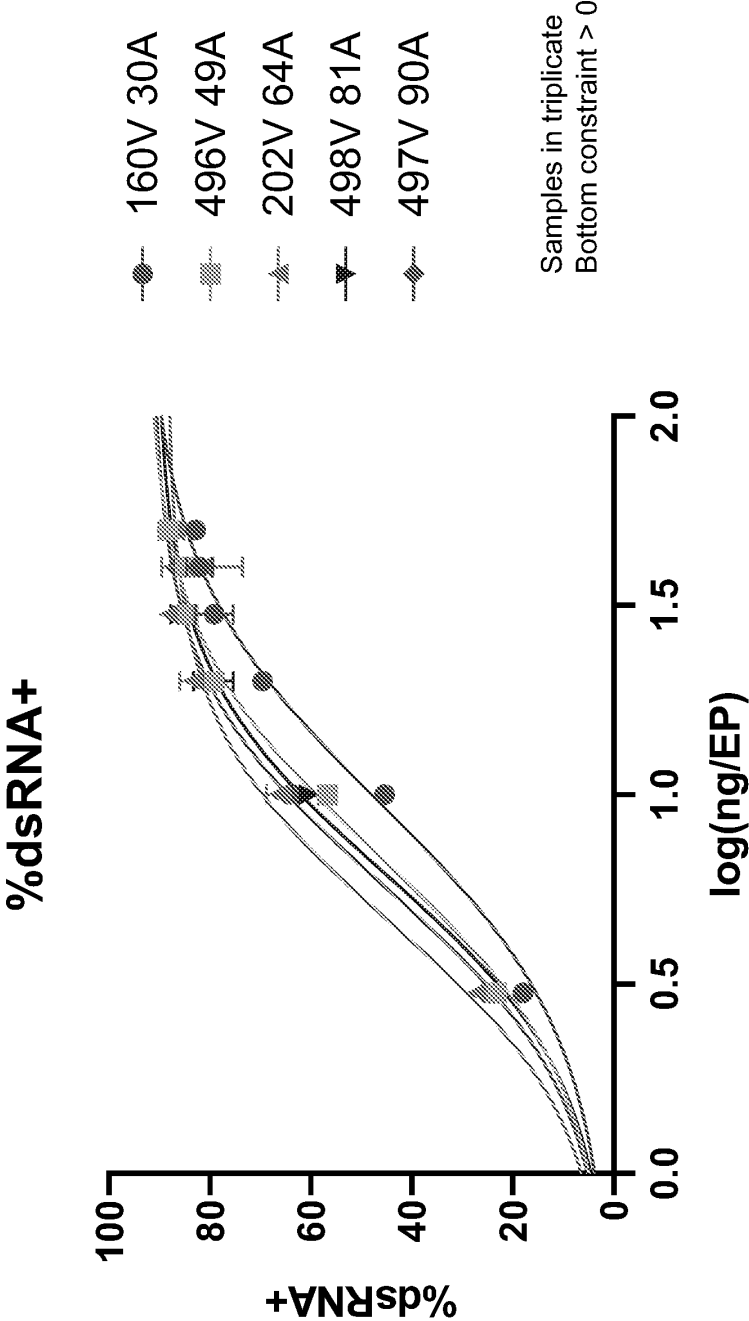


FIG. 9

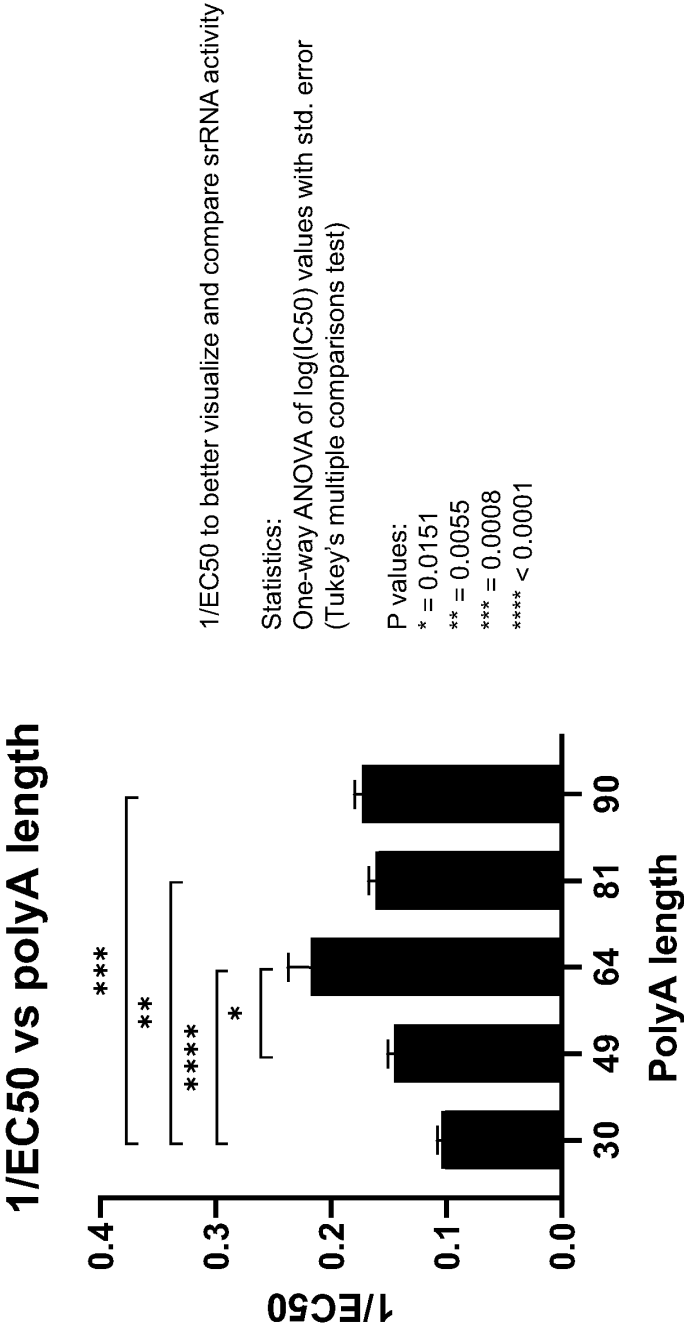


FIG. 10