

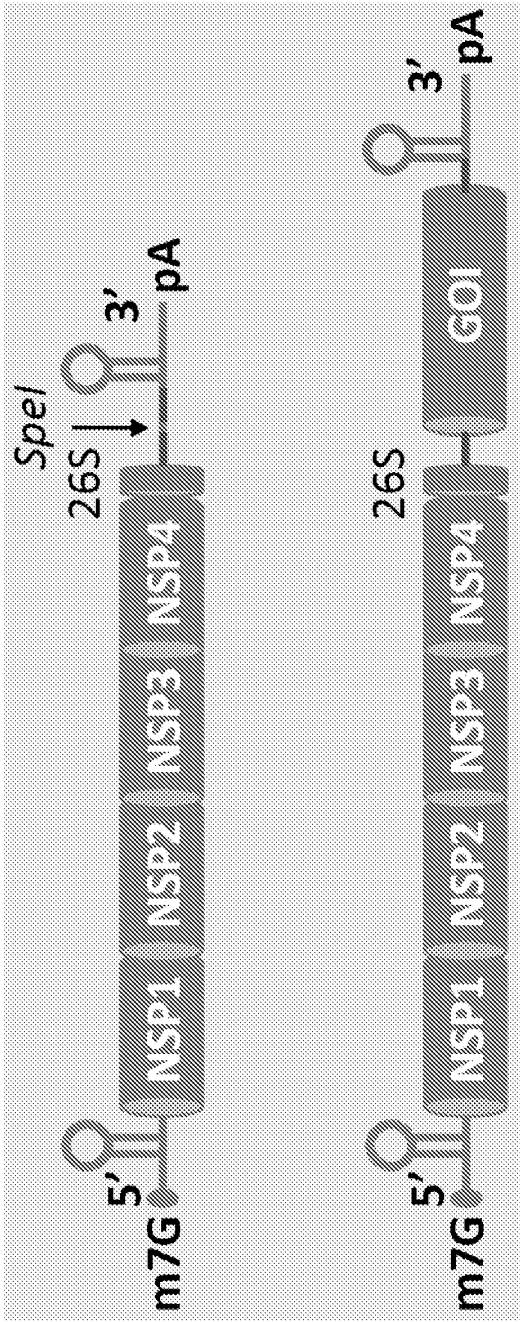


FIG. 1A

FIG. 1B

CHIKV S27 empty vector
with universal adaptor

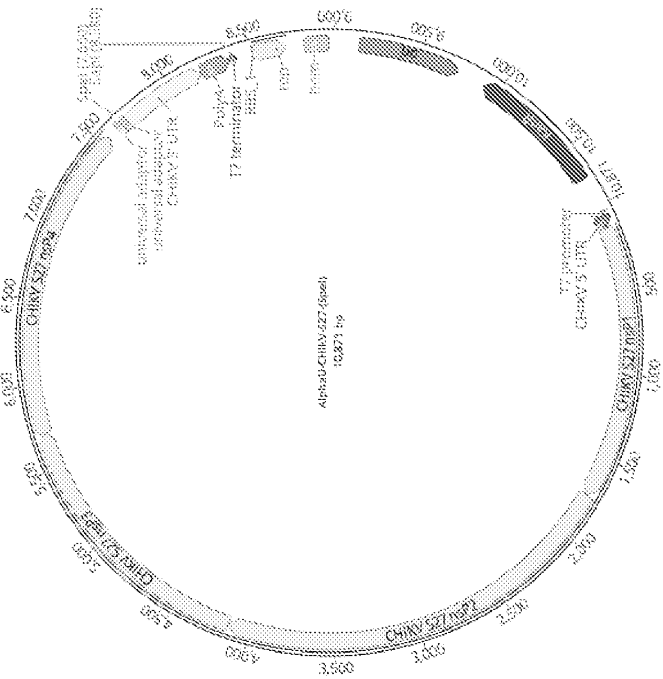


FIG. 2B

VEE empty vector
with universal adaptor

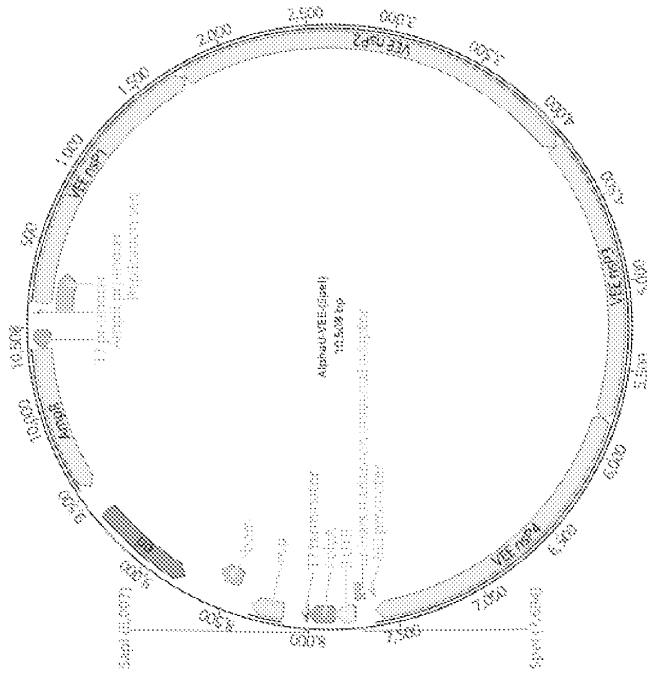


FIG. 2A

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

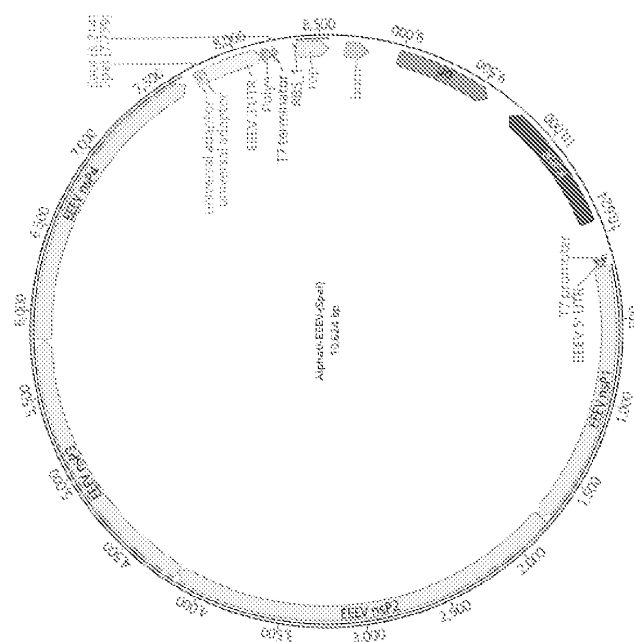
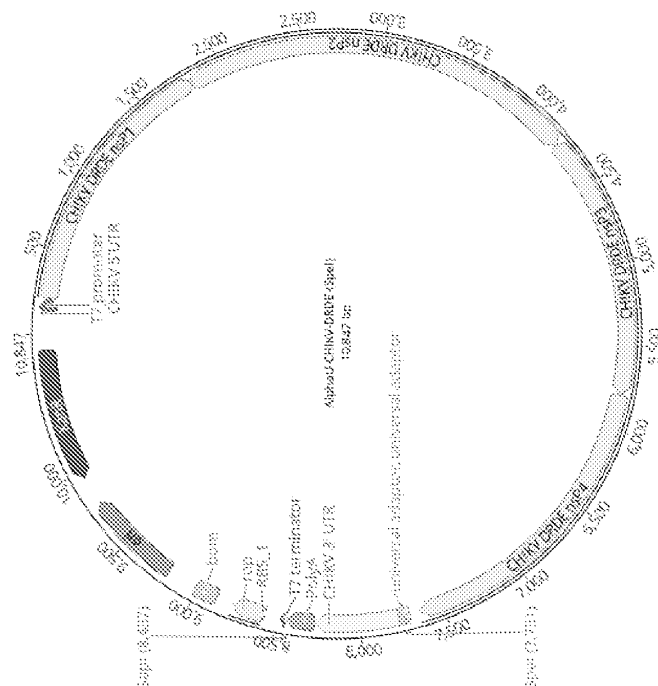


FIG. 2D

**CHIKV DRDE empty vector
with universal adaptor**



**SINV AR86-Girdwood chimera 1 empty vector
with universal adaptor**

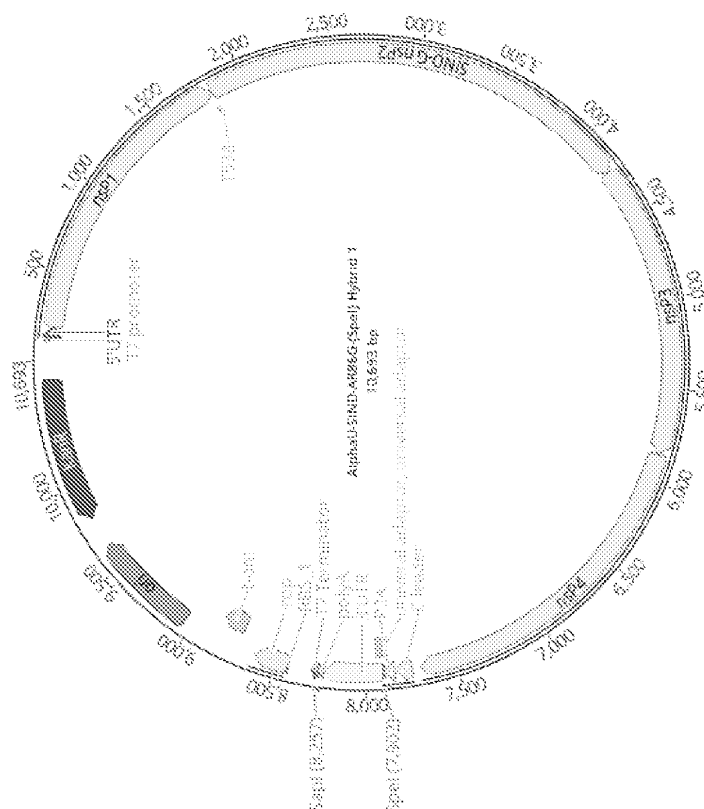


FIG. 2F

SINV Girdwood empty vector with universal adaptor

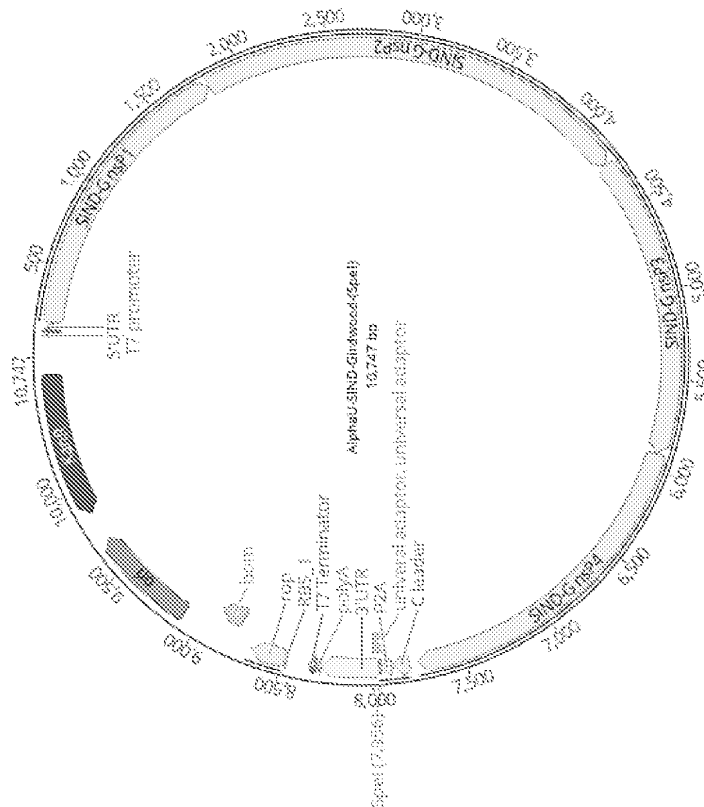


FIG. 2E

**SINV AR86-Girdwood chimera 3 empty vector
with universal adaptor**

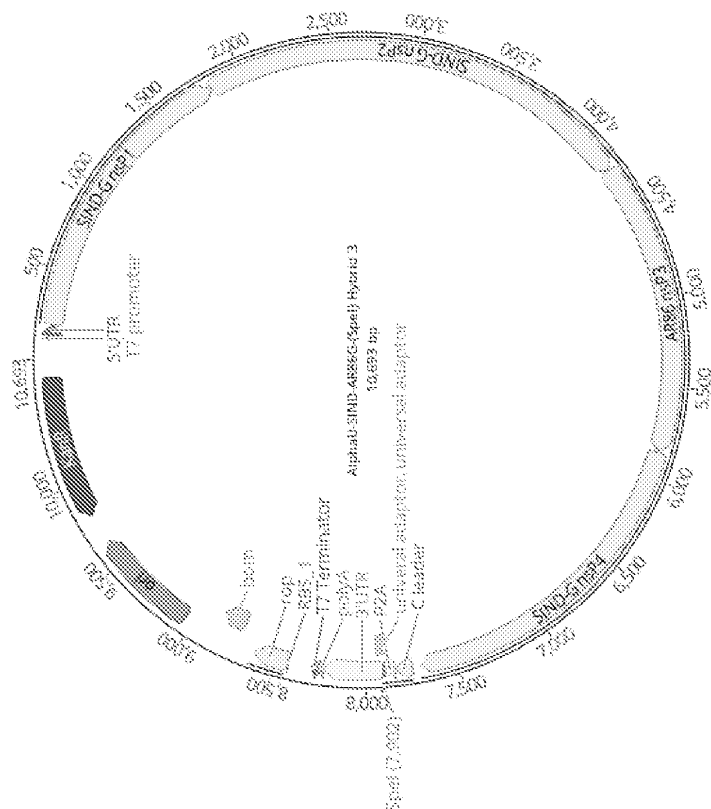


FIG. 2H

**SINV AR86-Girdwood chimera 2 empty vector
with universal adaptor**

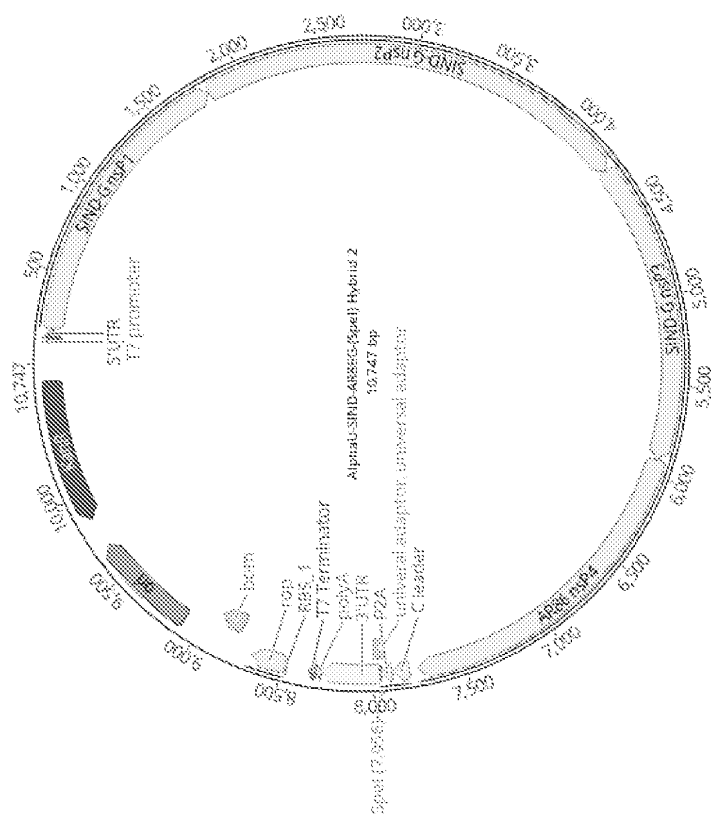


FIG. 2G

EEEEV FL93-939 vector
with GOI

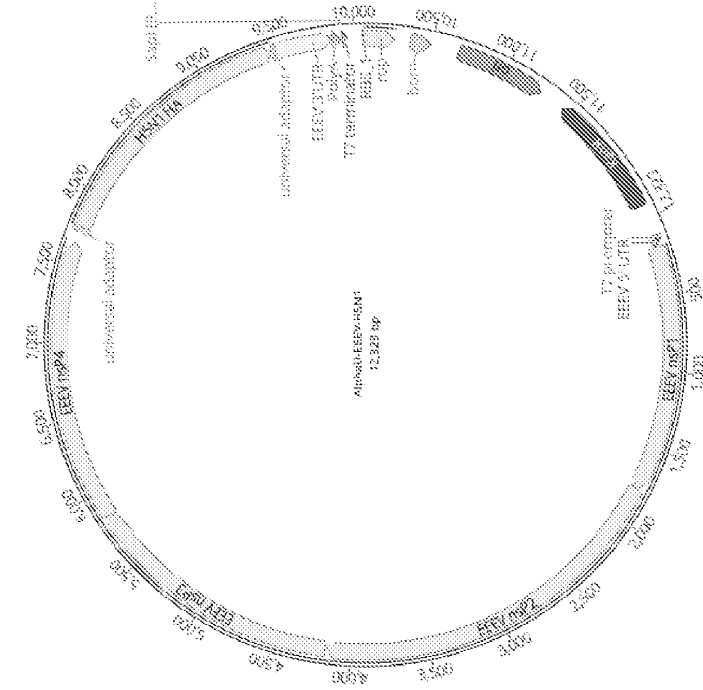


FIG. 3A

SINV AR86-Girdwood Hybrid 1
with GOI

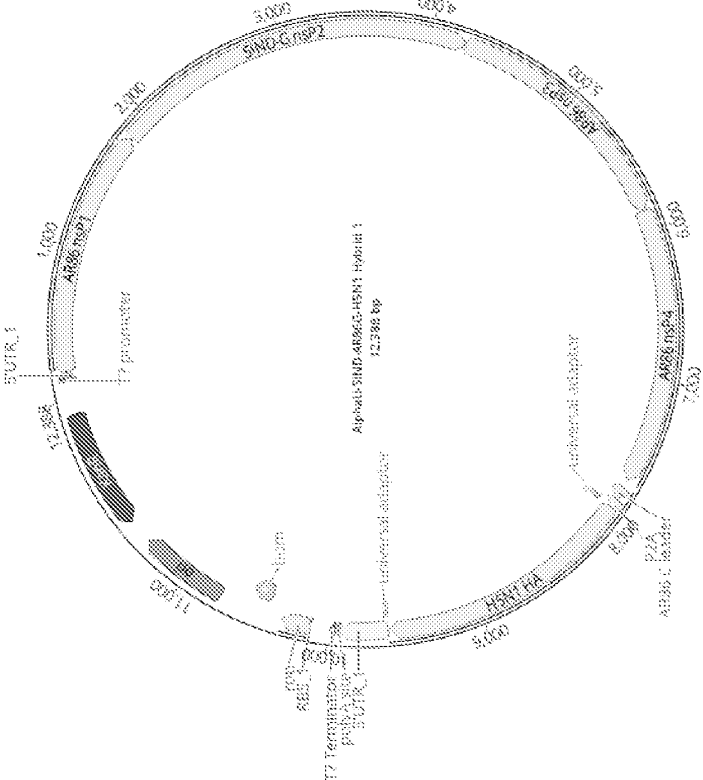


FIG. 3B

SINV AR86-Girdwood Hybrid 3
with GOI

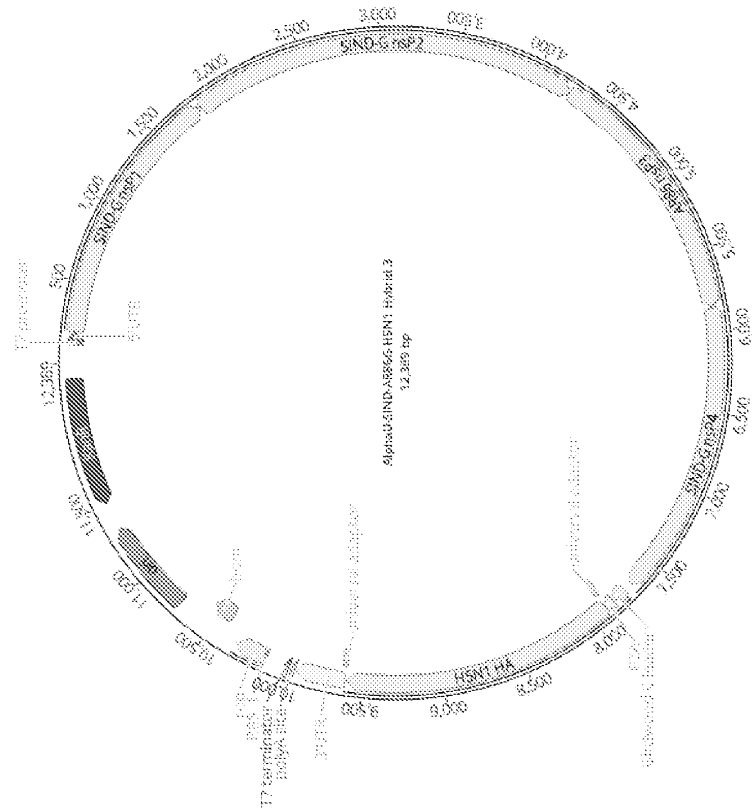


FIG. 3D

SINV AR86-Girdwood Hybrid 2
with GOI

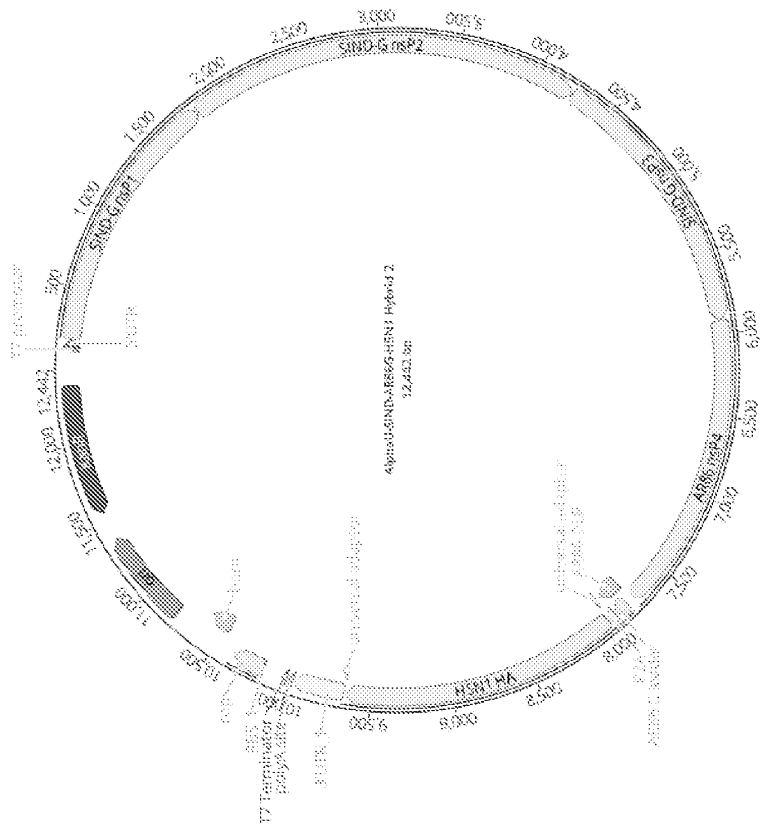


FIG. 3C

Strain

Schematic

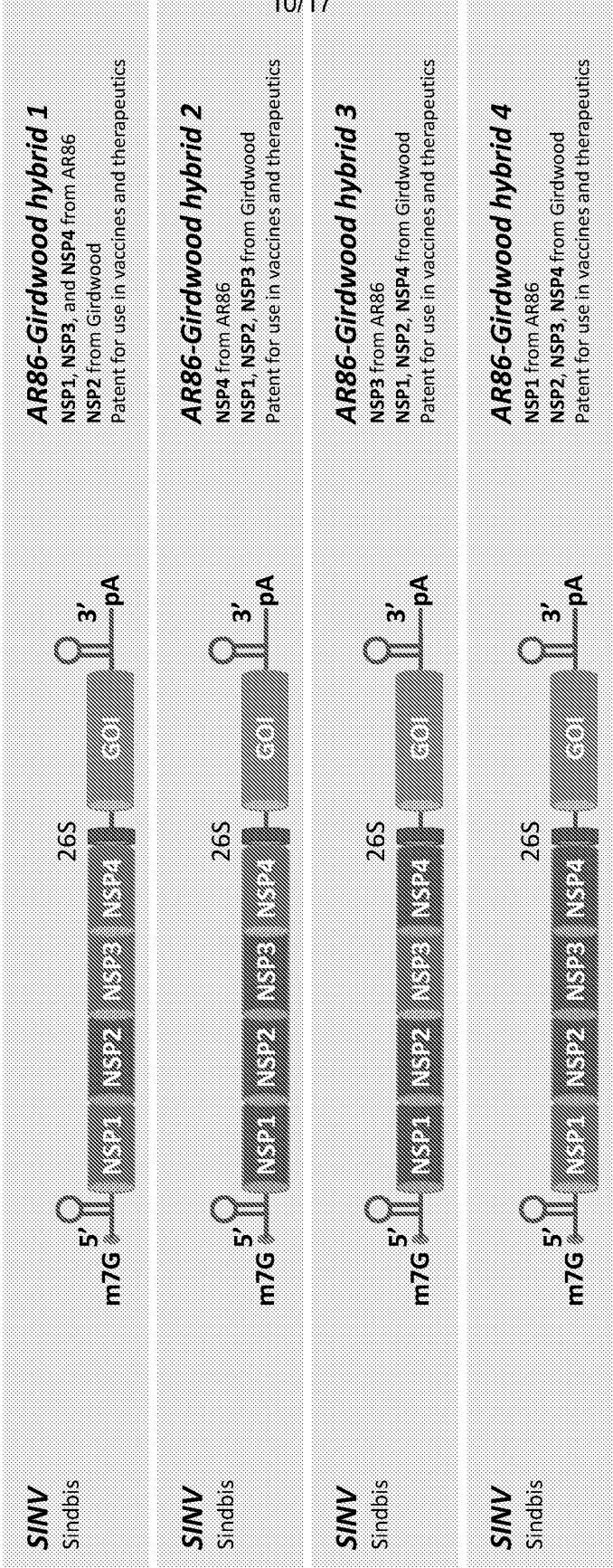


FIG. 3F

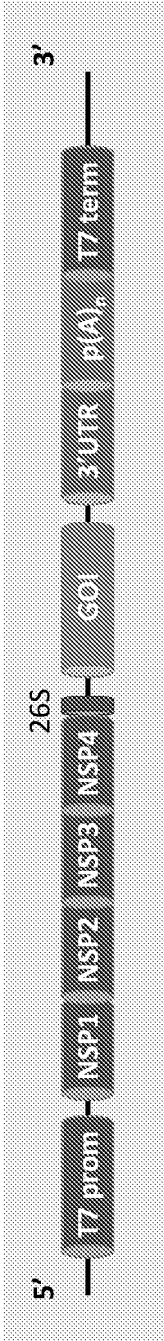


FIG. 4A

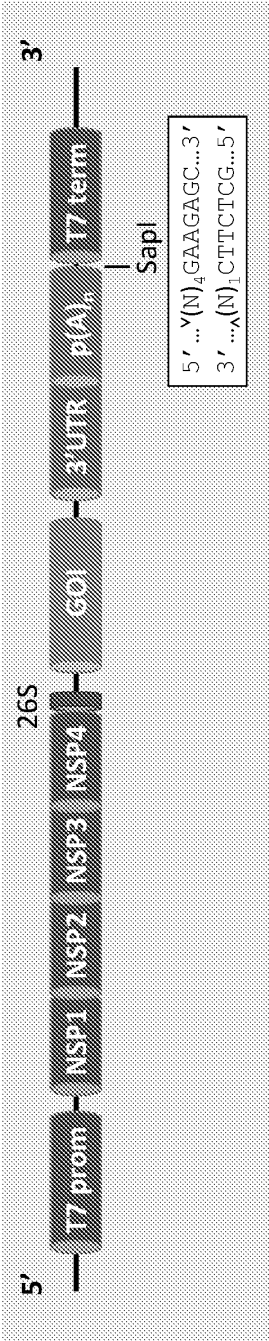


FIG. 4B

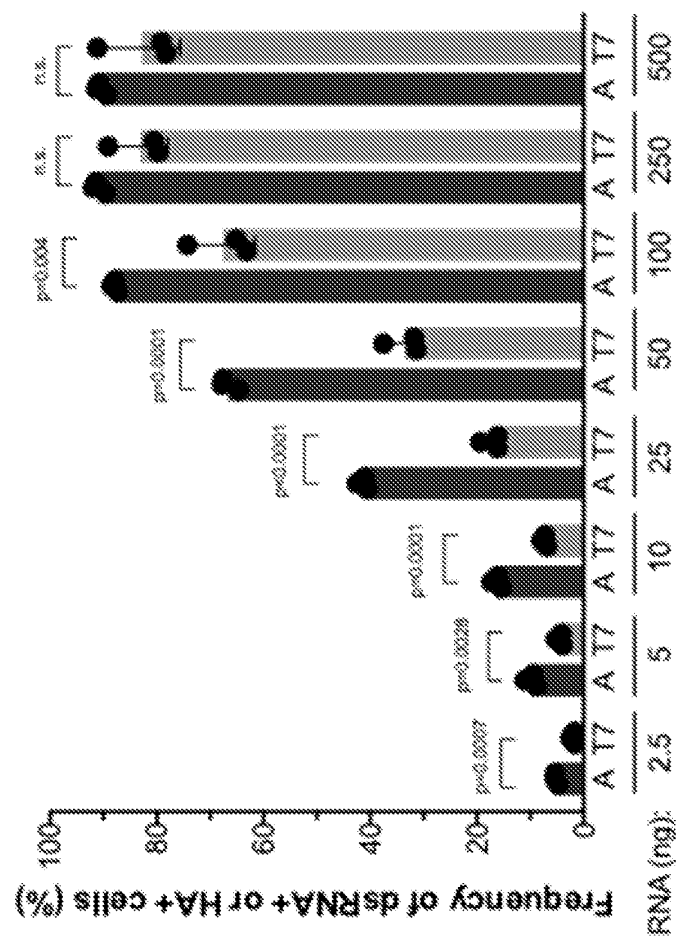


FIG. 5

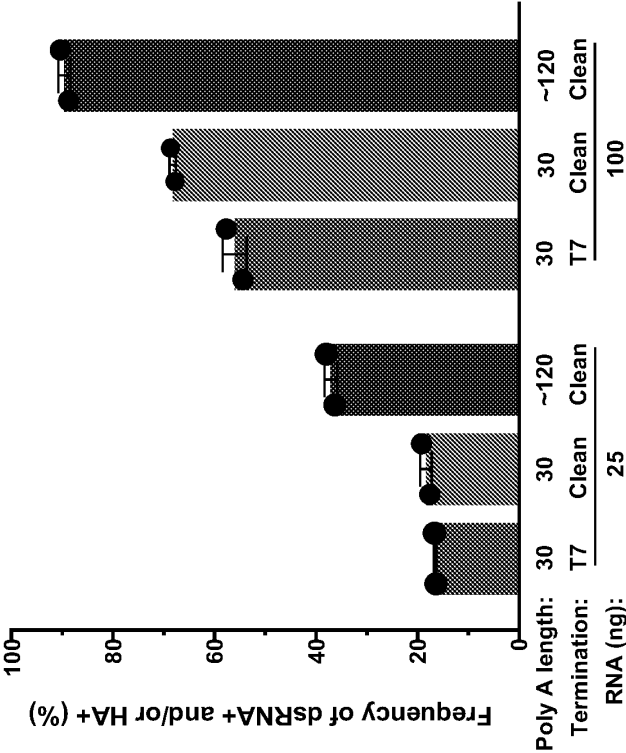


FIG. 6

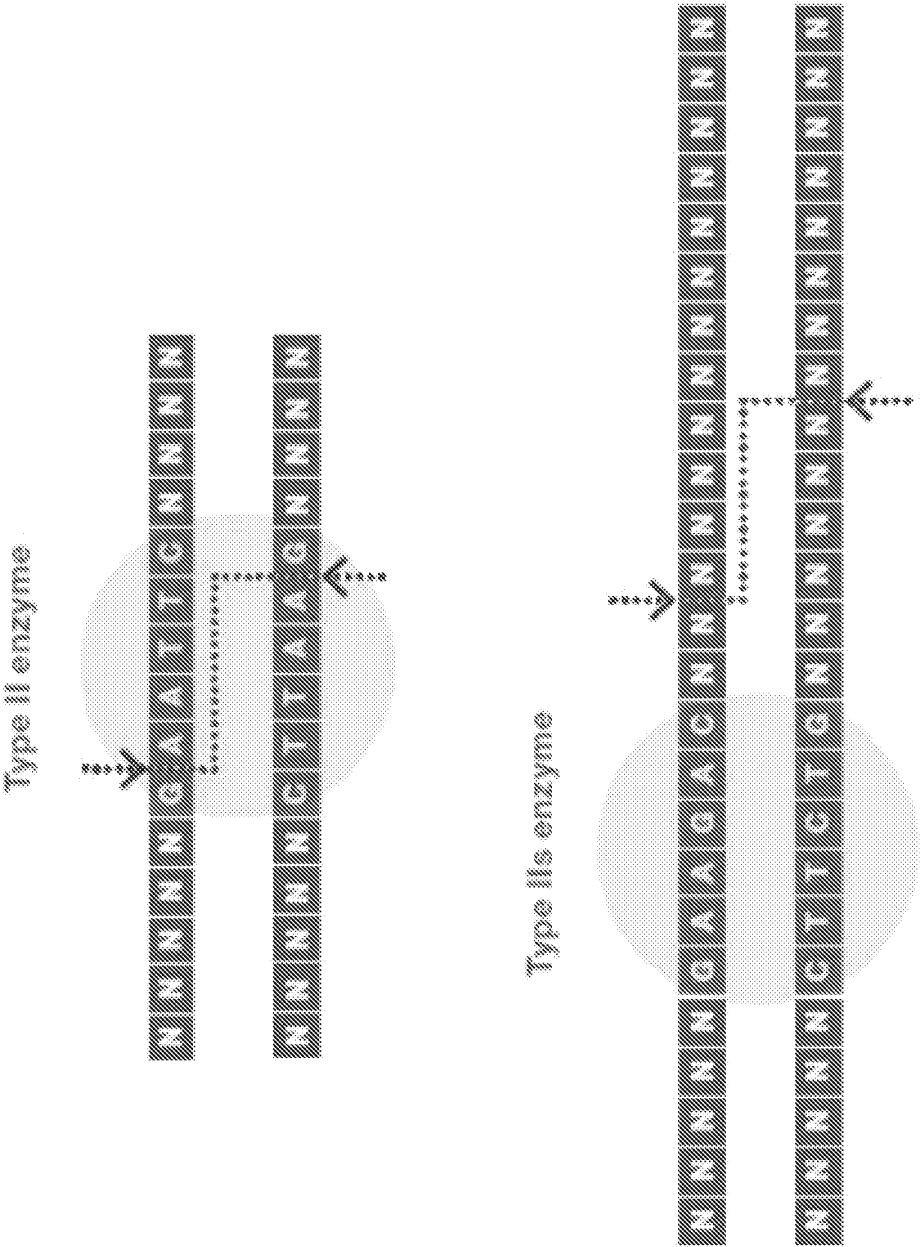


FIG. 7

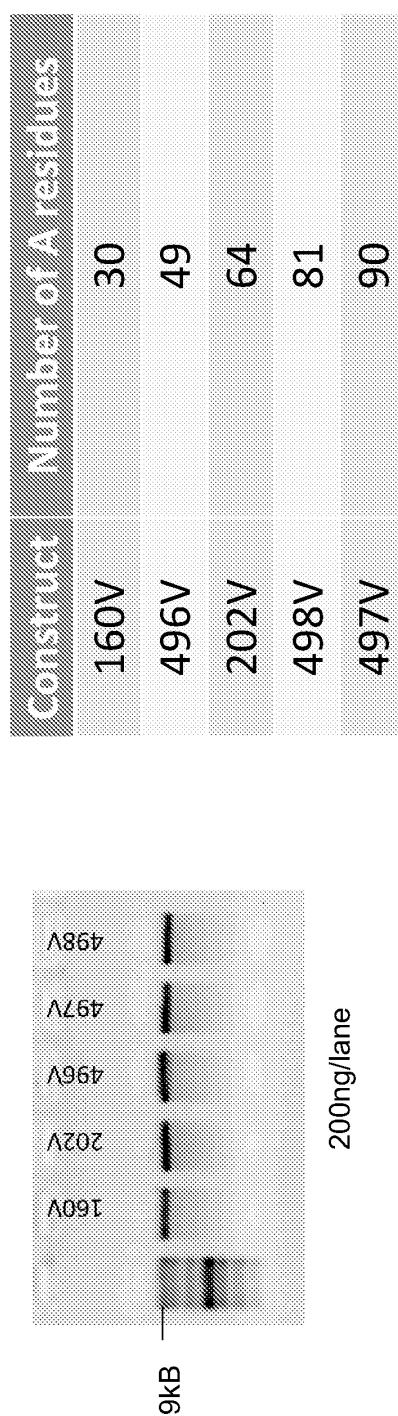


FIG. 8

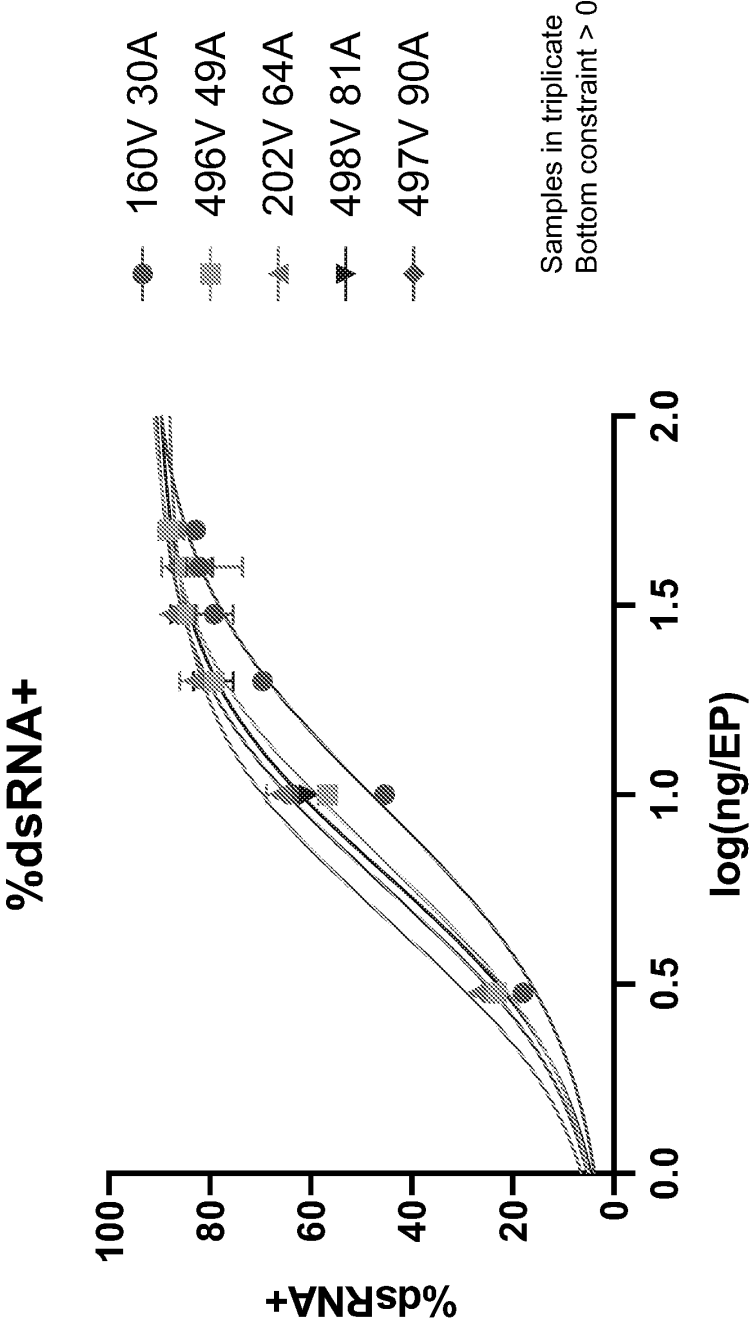


FIG. 9

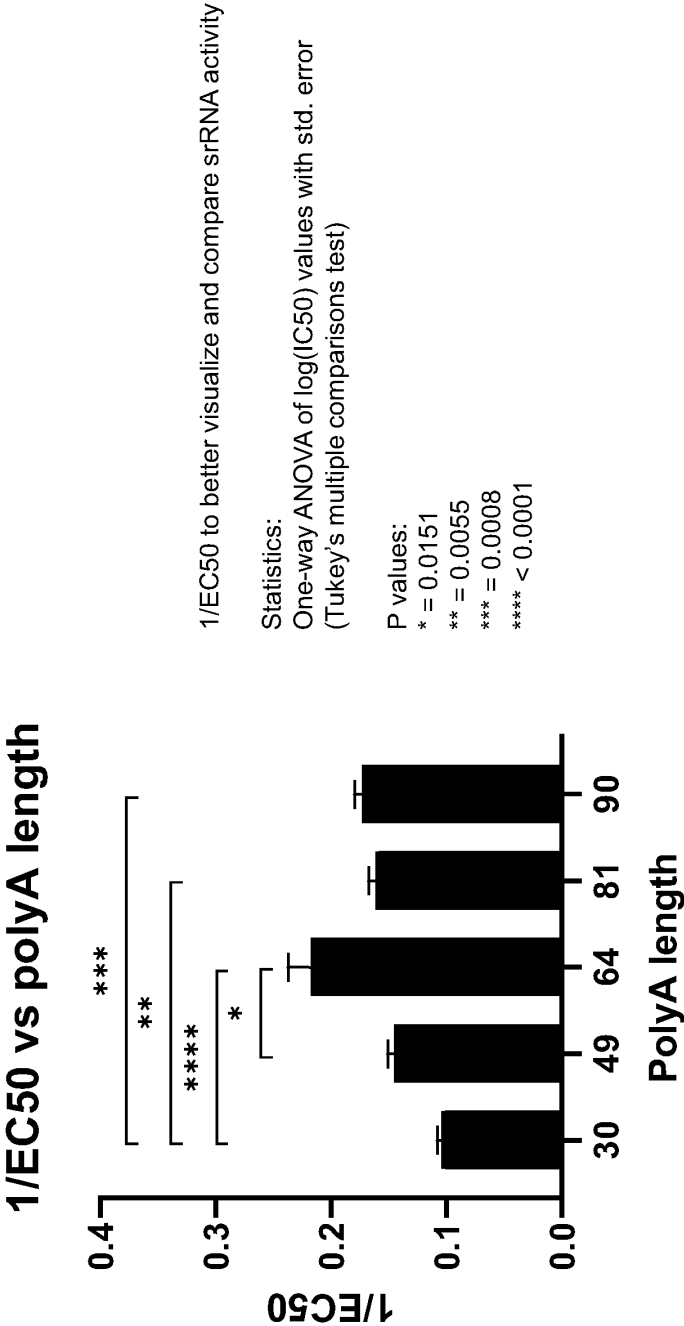


FIG. 10