

Figure 1A
Unmodified HPXV genome (strain MNR-76; GI DQ792504)

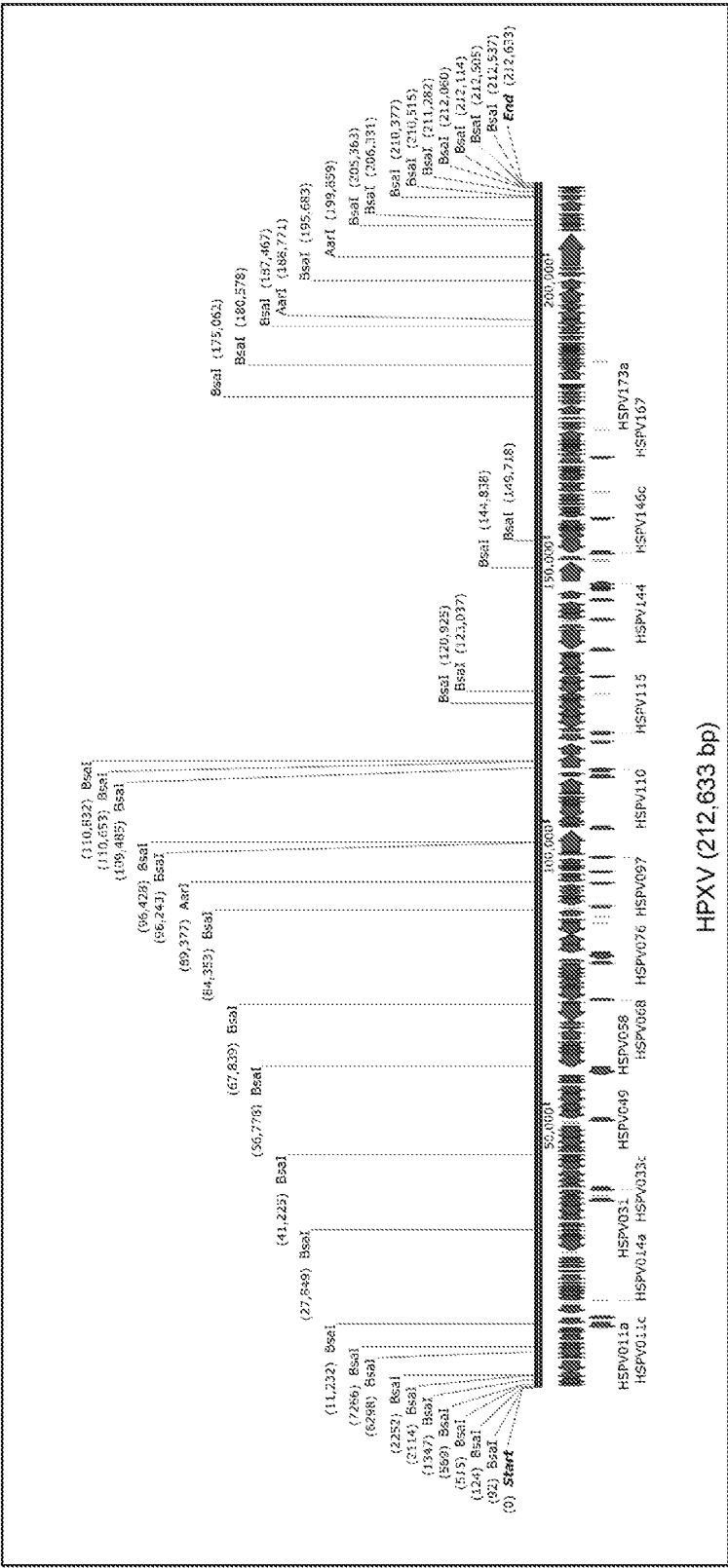


Figure 1B

scHPXV genome used for DNA synthesis

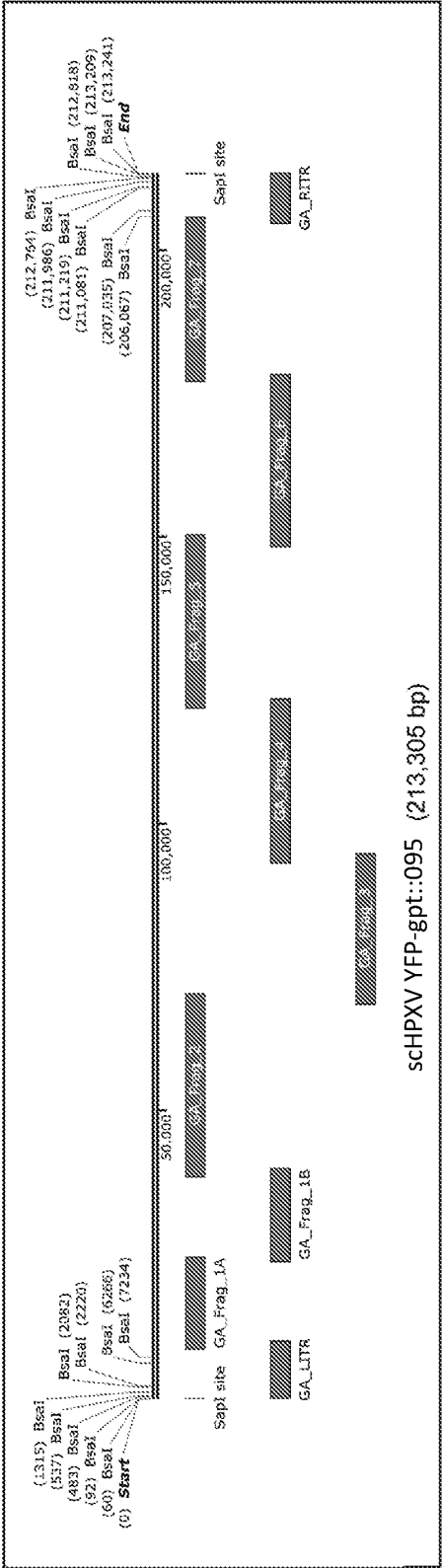


Figure 2

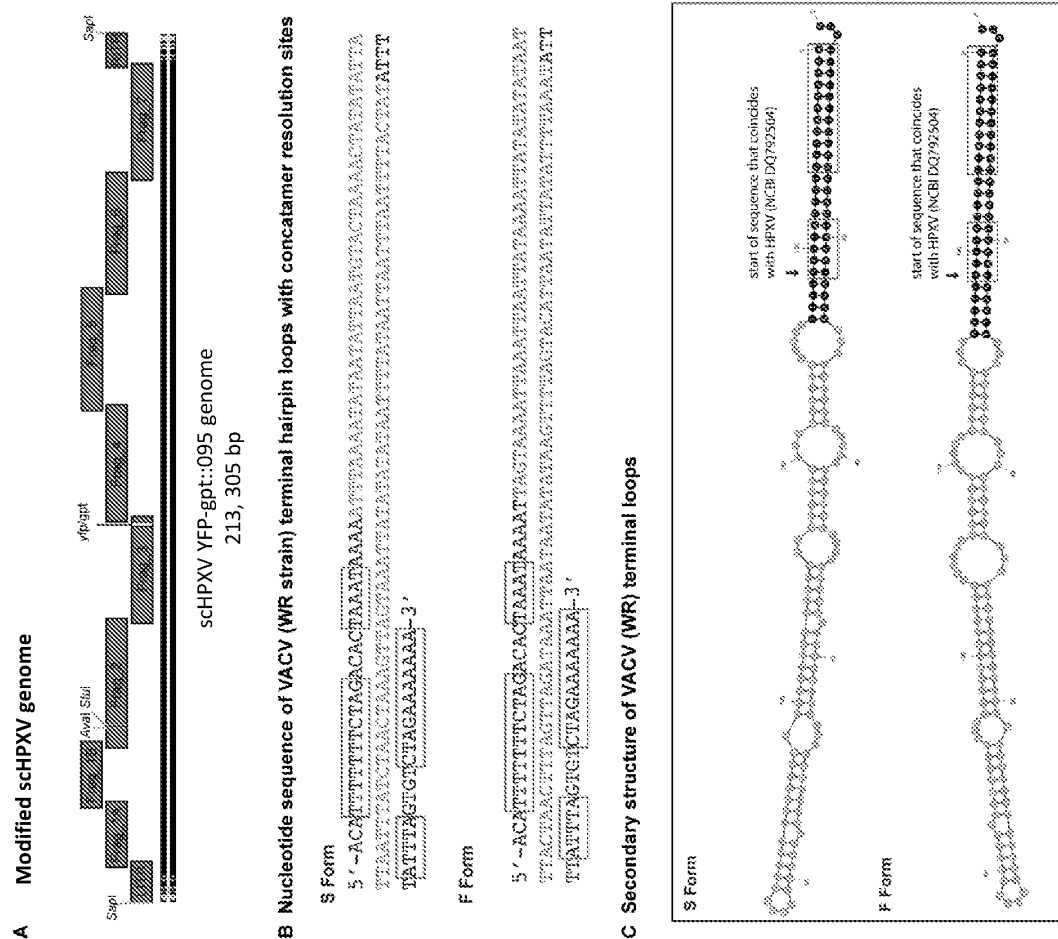


Figure 3A

Schematic diagram of schHPXV YFP-gpt::095 left and right ITR digested with *PvuII*

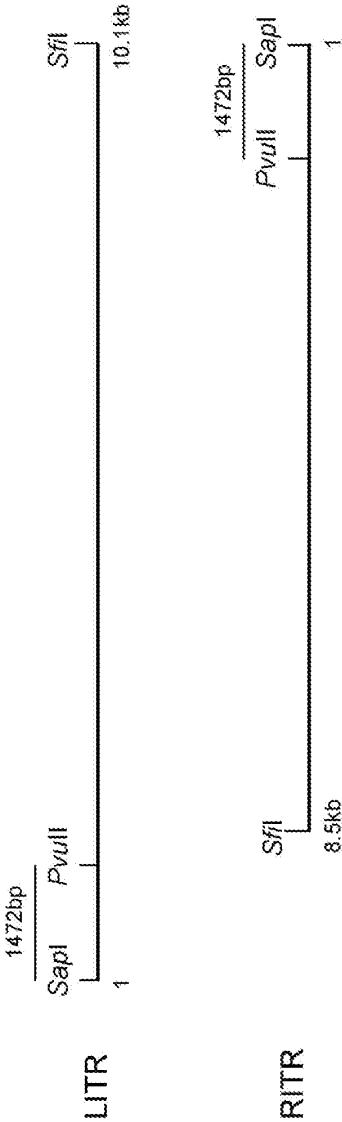


Figure 3B

Ligation of VACV terminal hairpins onto left and right ITR

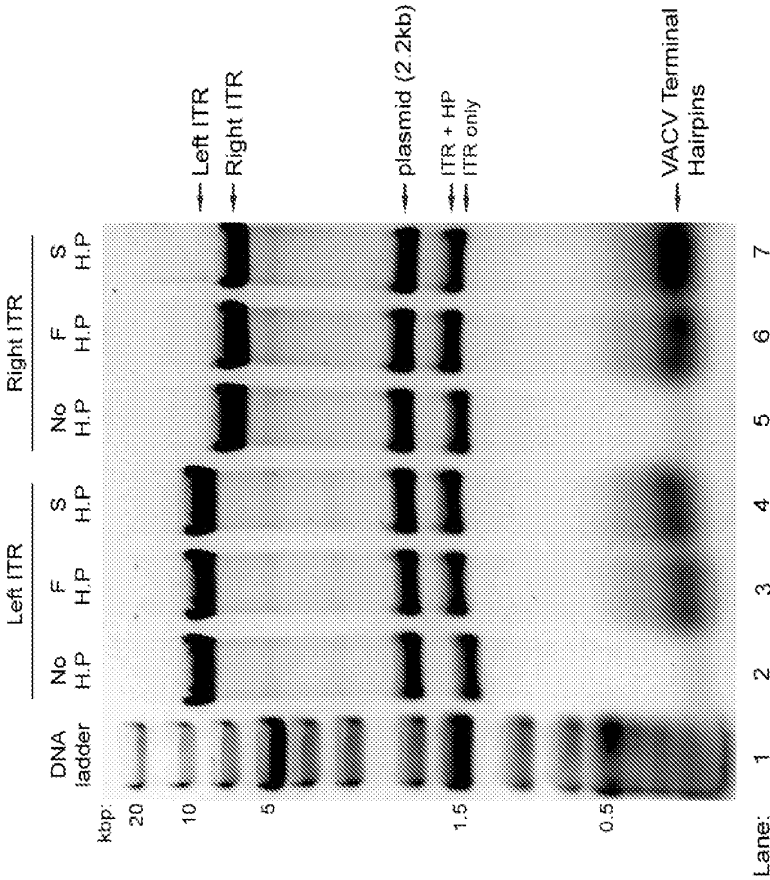


Figure 4A

PCR analysis of *Bsa*I sites in VACV and scHPXV YFP-gpt::095 (plaque pick 1 and 3)

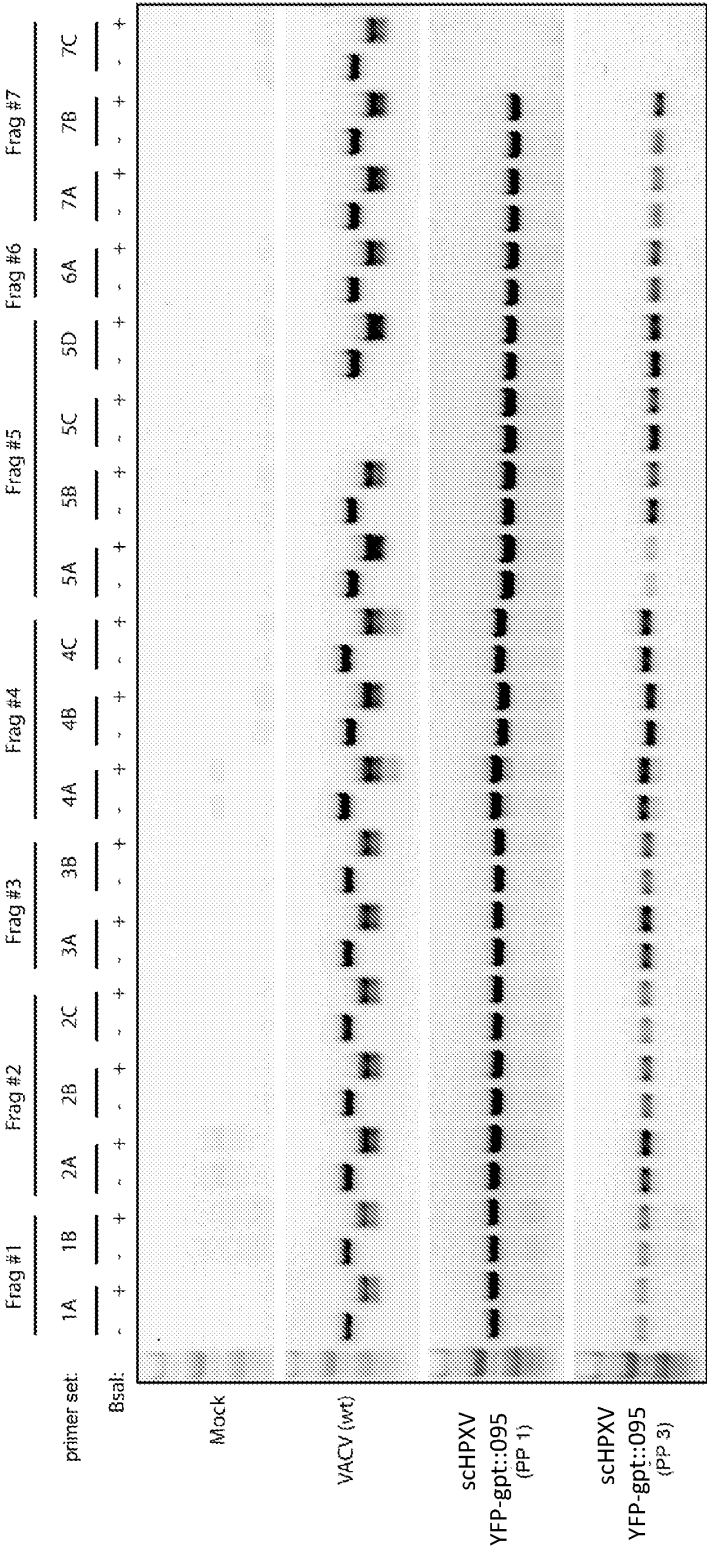


Figure 4C
Agarose electrophoresis of scHPXV YFP-gpt::095 following *BsaI* and *HindIII* digest

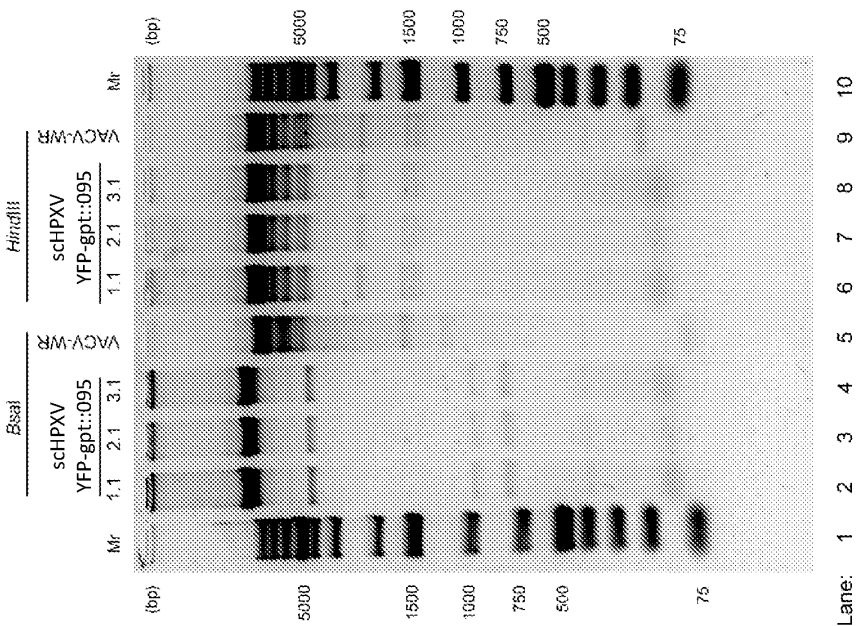
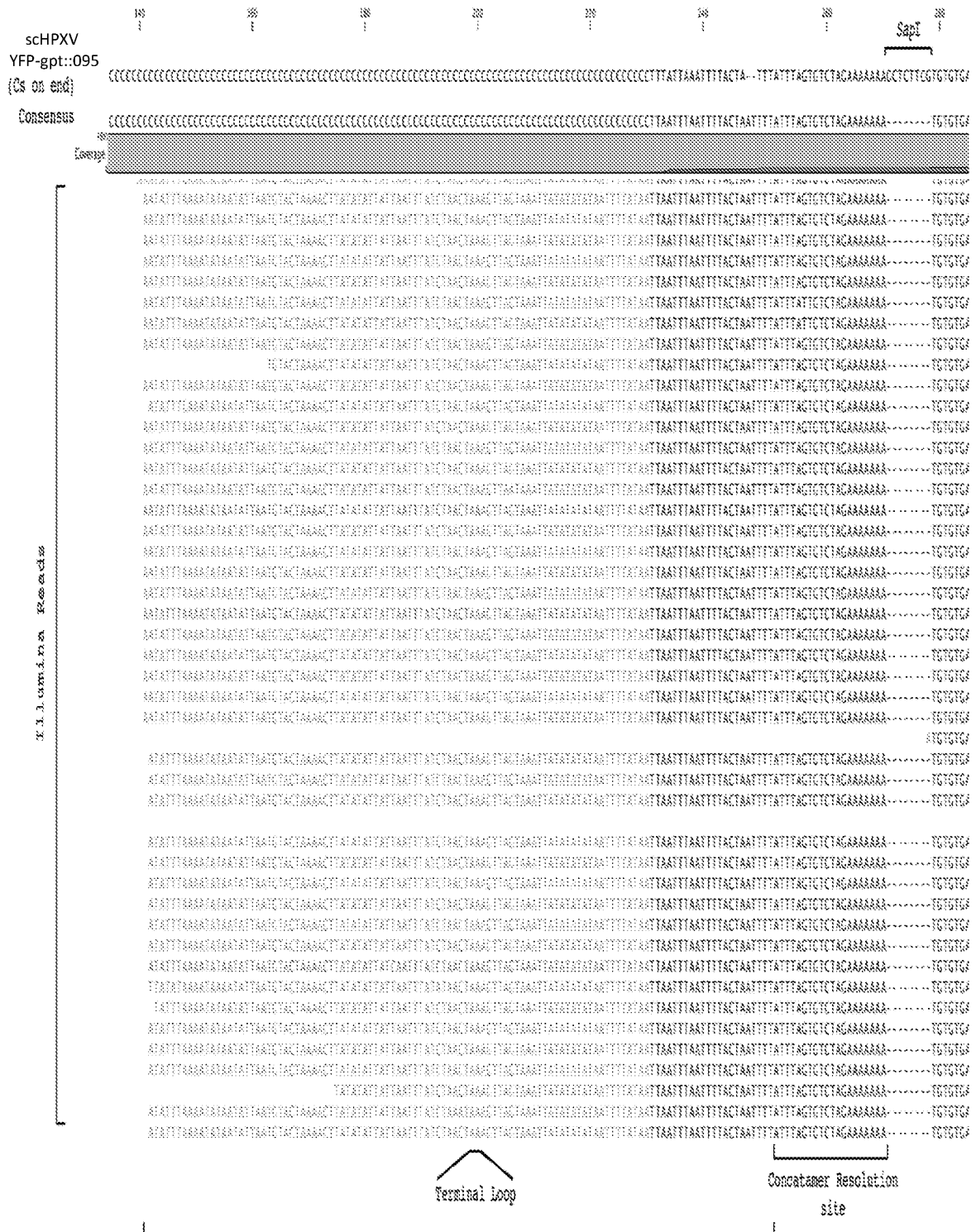


Figure 5A



VACV WR terminal hairpin loop

Figure 5B

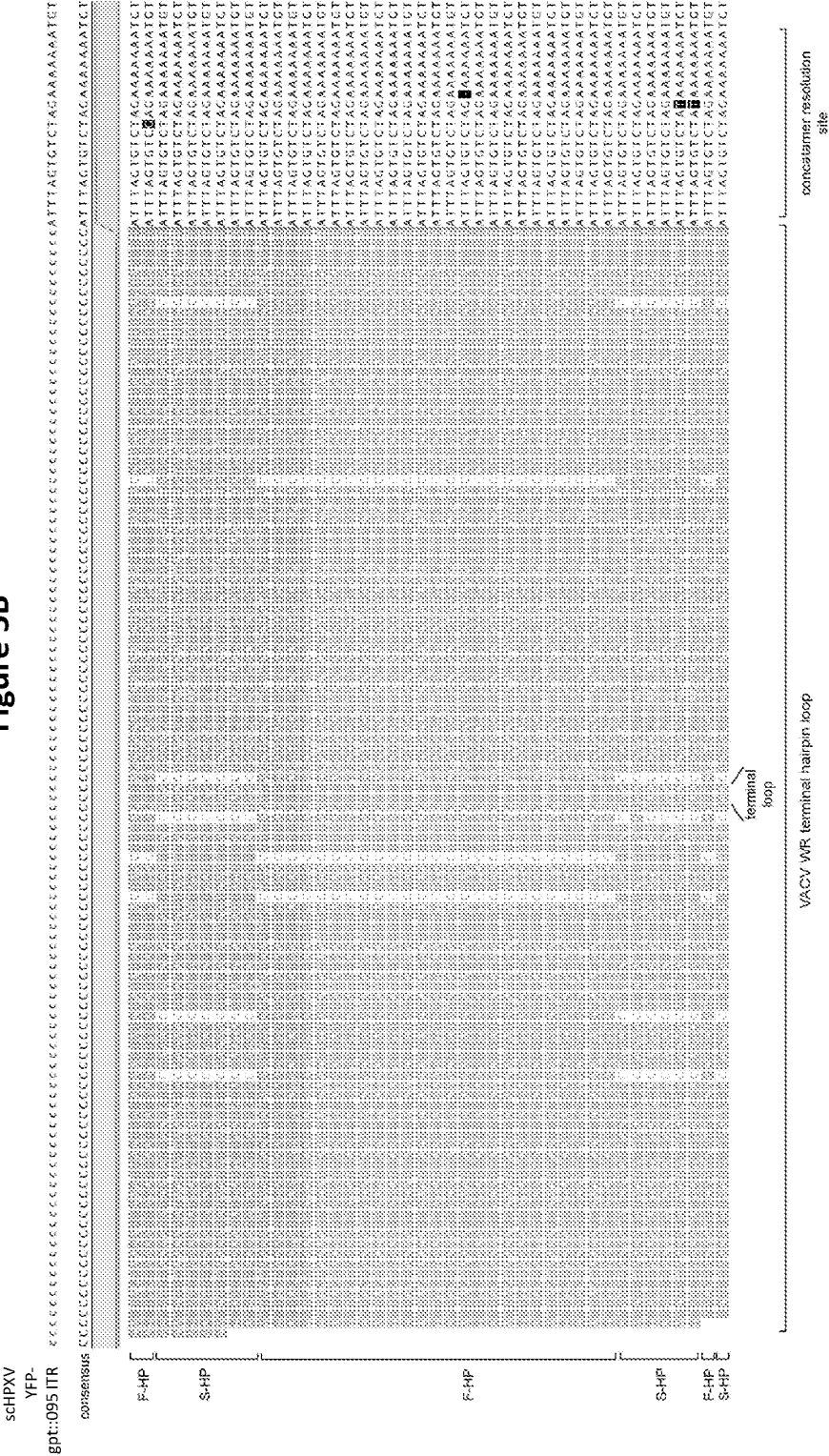
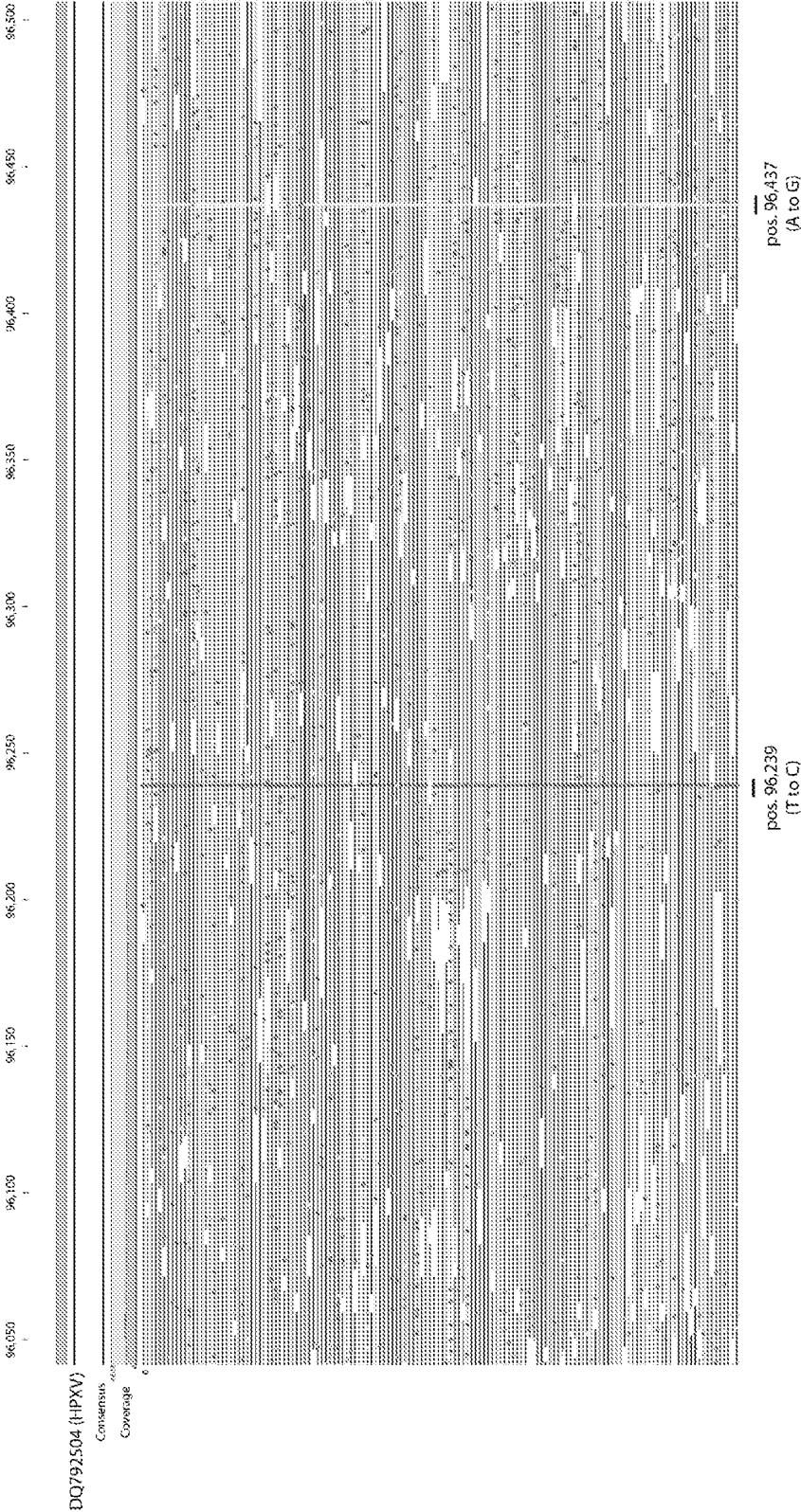


Figure 6A
Overall Illumina read coverage in sHPXV YFP-gpt::095 region 96,050 to 96,500



Bsal mutation at pos. 96437

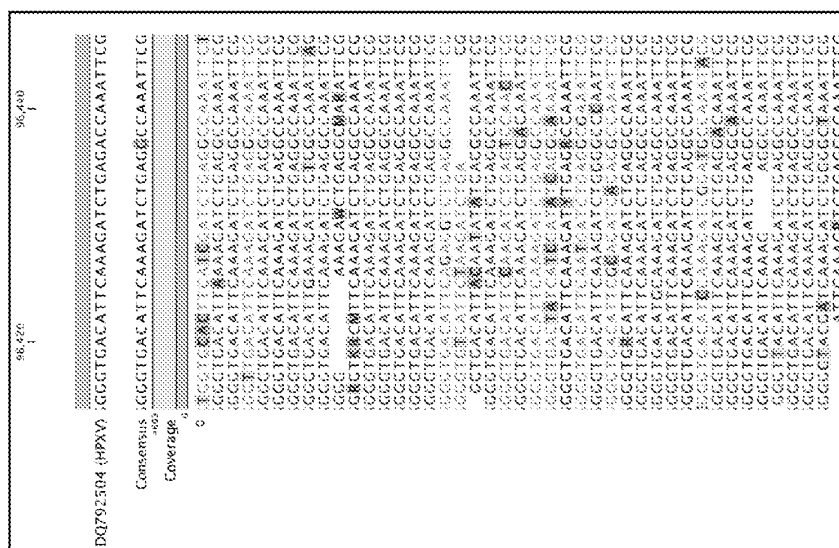
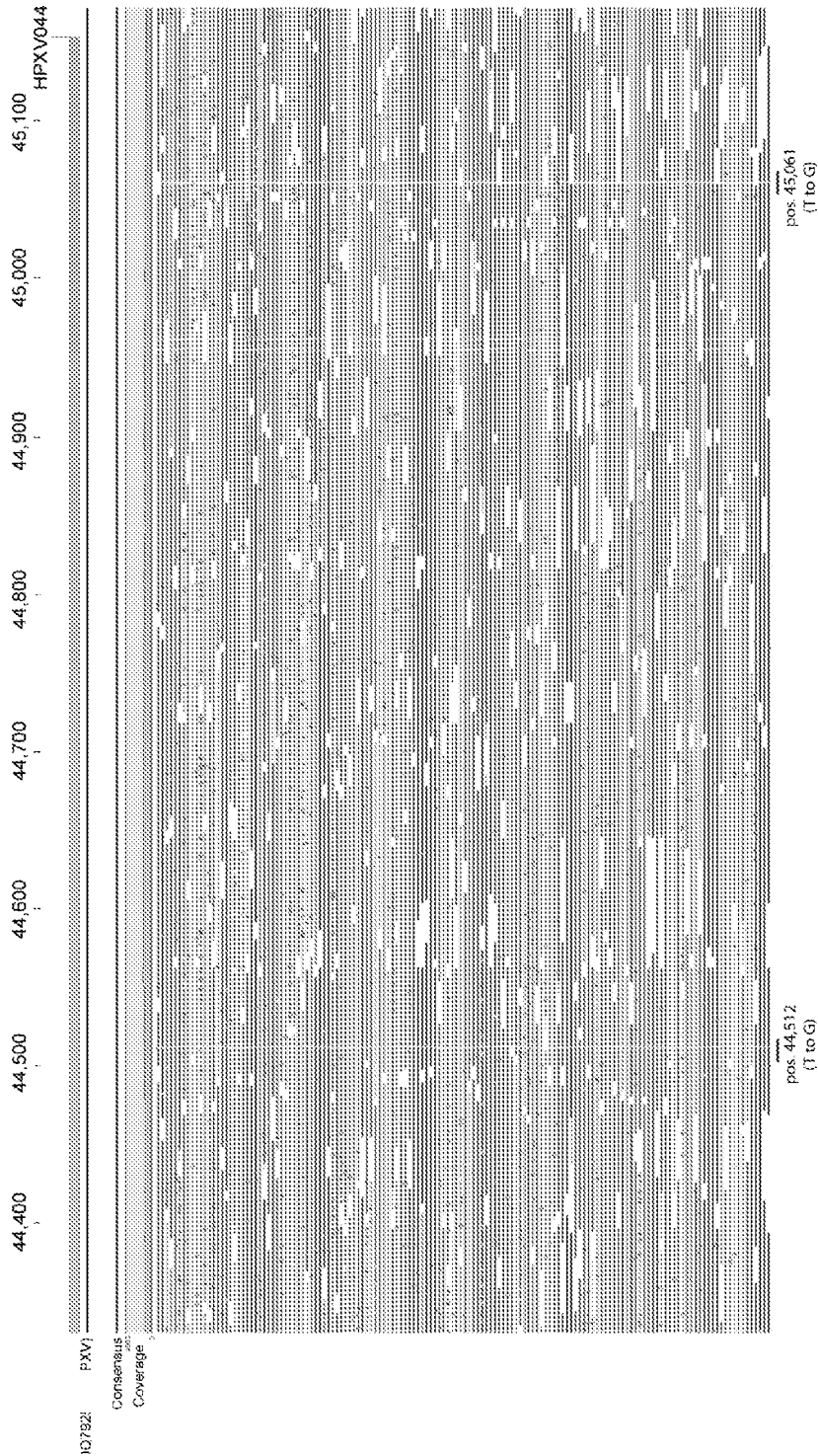


Figure 7A

Nucleotide changes in HPXV044 to create unique restriction sites in scHPXV YFP-gpt::095



Nucleotide change in HPXV044 at pos. 44,512
(Creation of Aval restriction site)

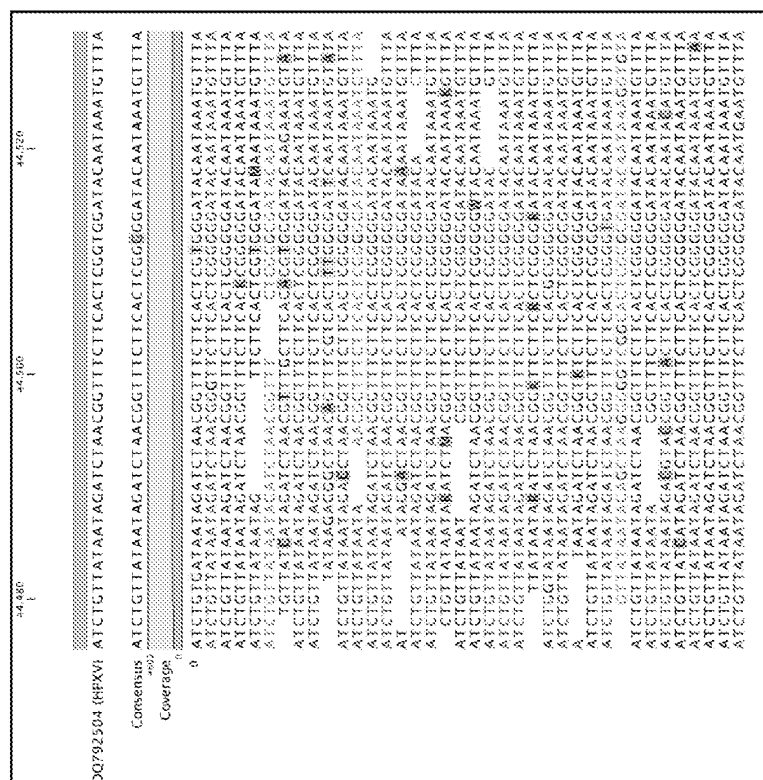


Figure 8A

Growth of scHPXV YFP-gpt::095 in cell lines

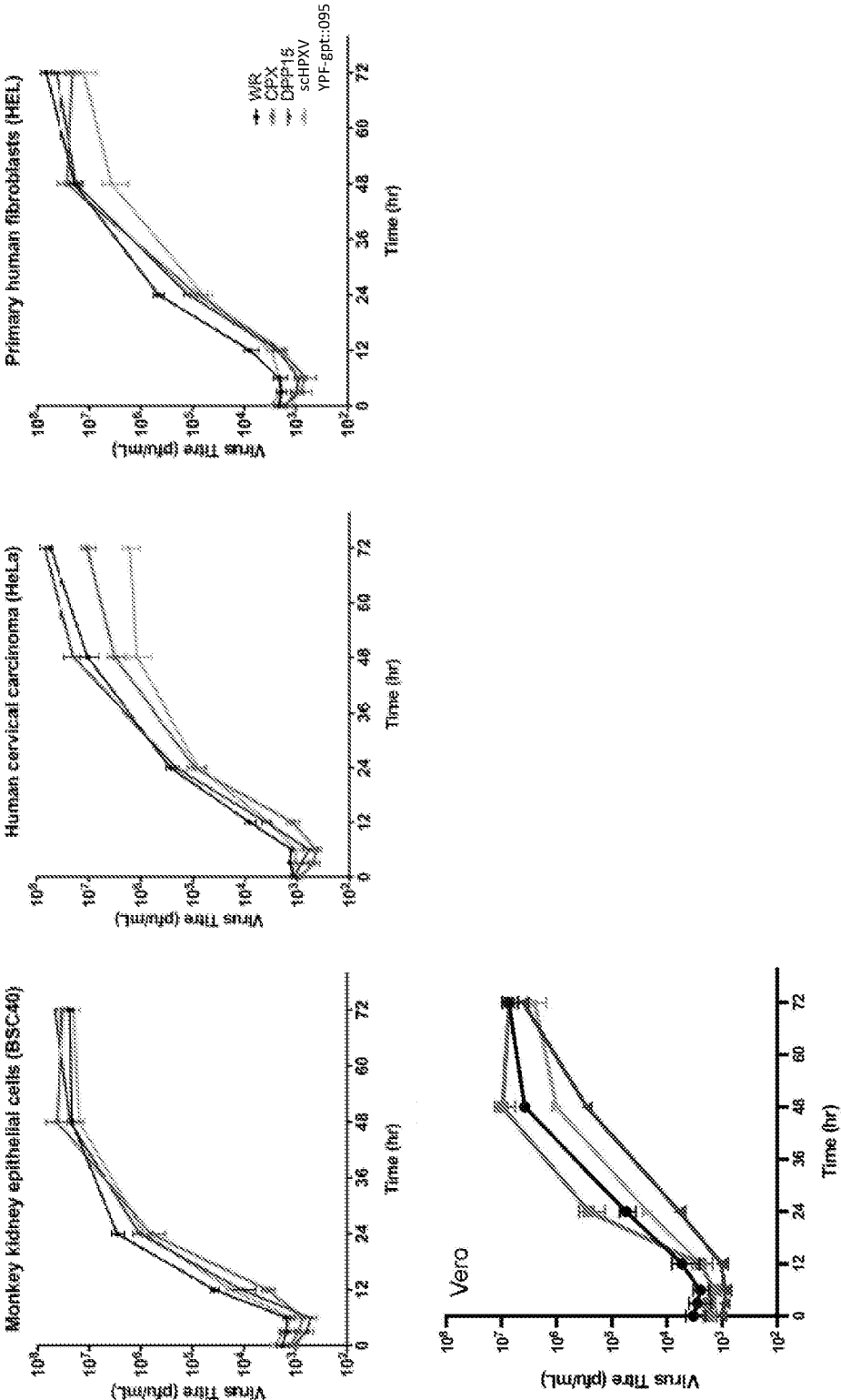


Figure 8B

Plaque size of scHPXV YFP-gpt::095 in BSC-40 cells

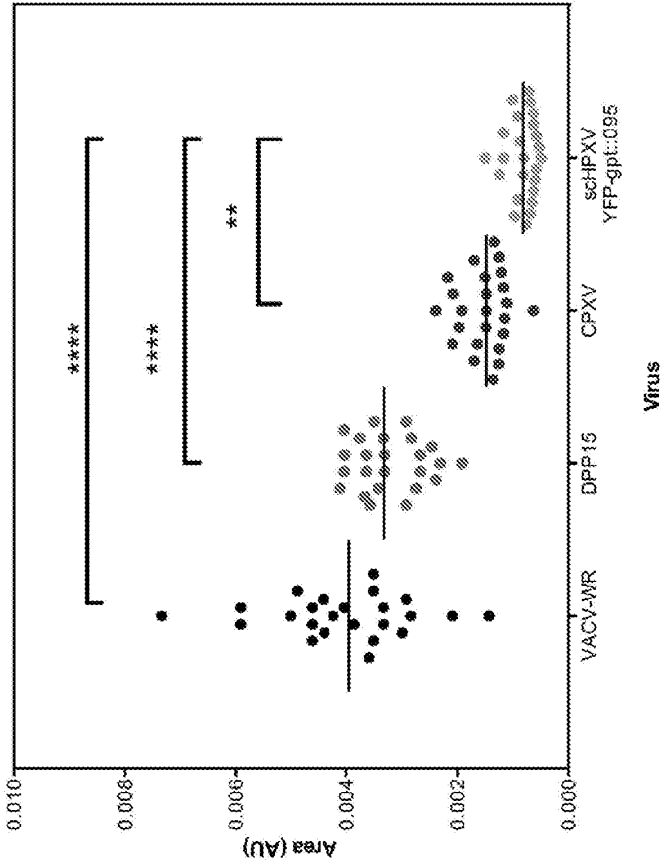


Figure 8C

Plaque morphology of scHPXV YFP-gpt::095 in BSC-40 cells

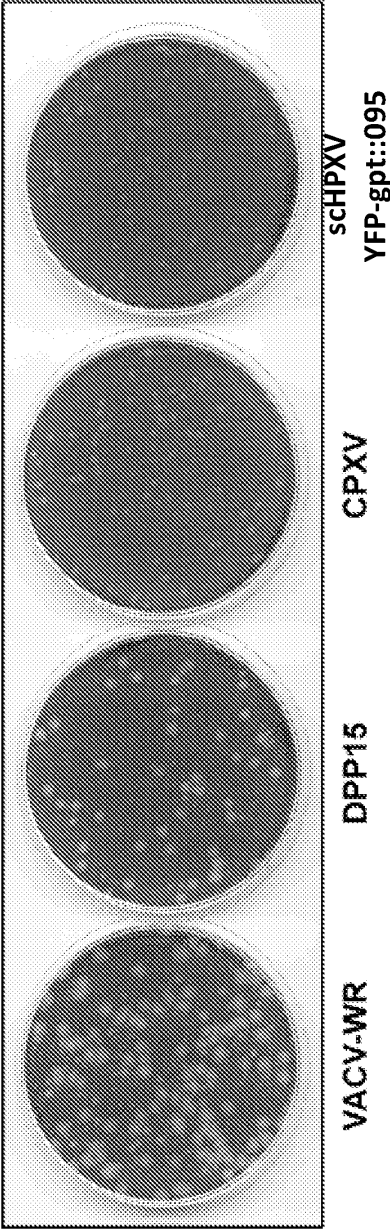


Figure 9

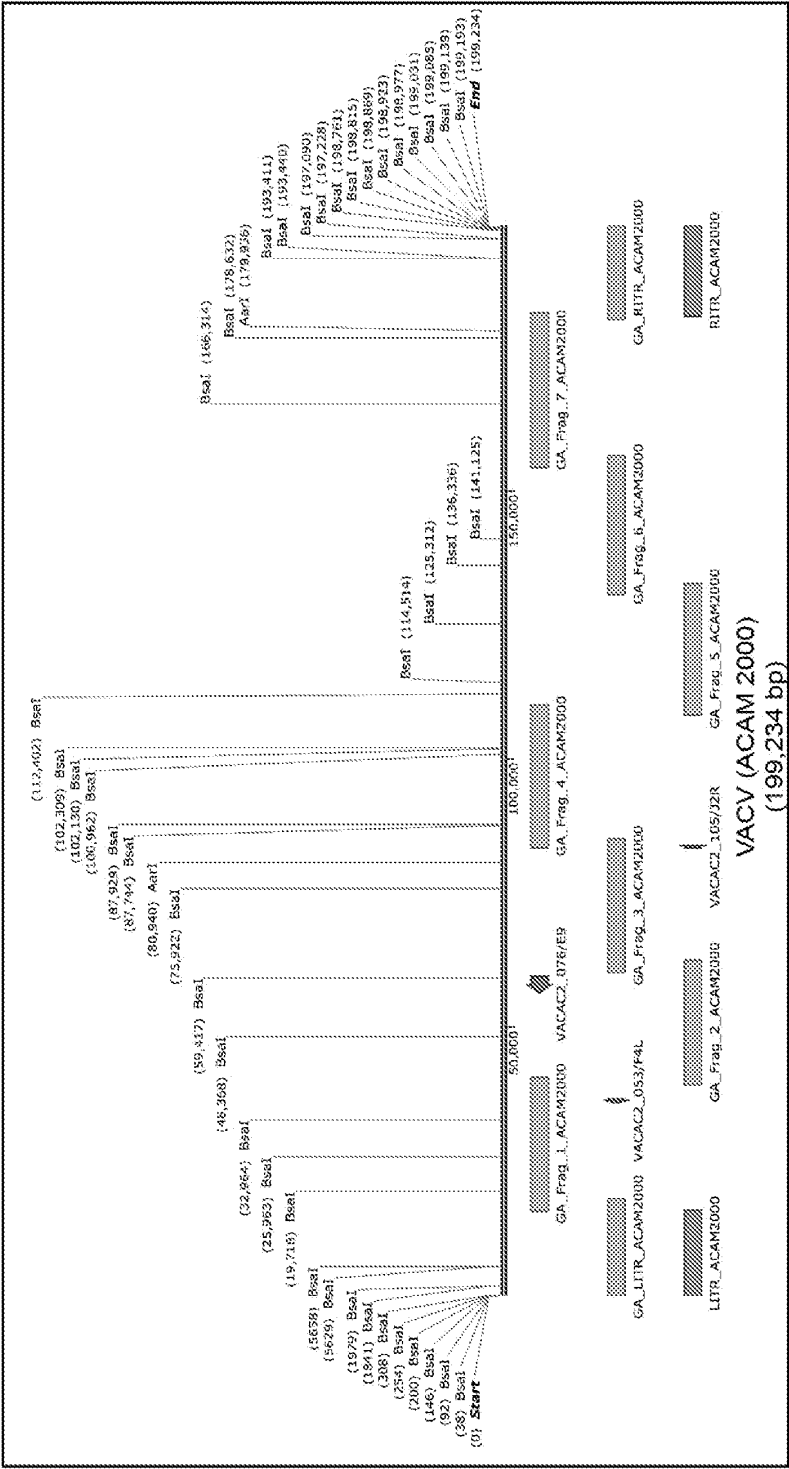


Figure 10

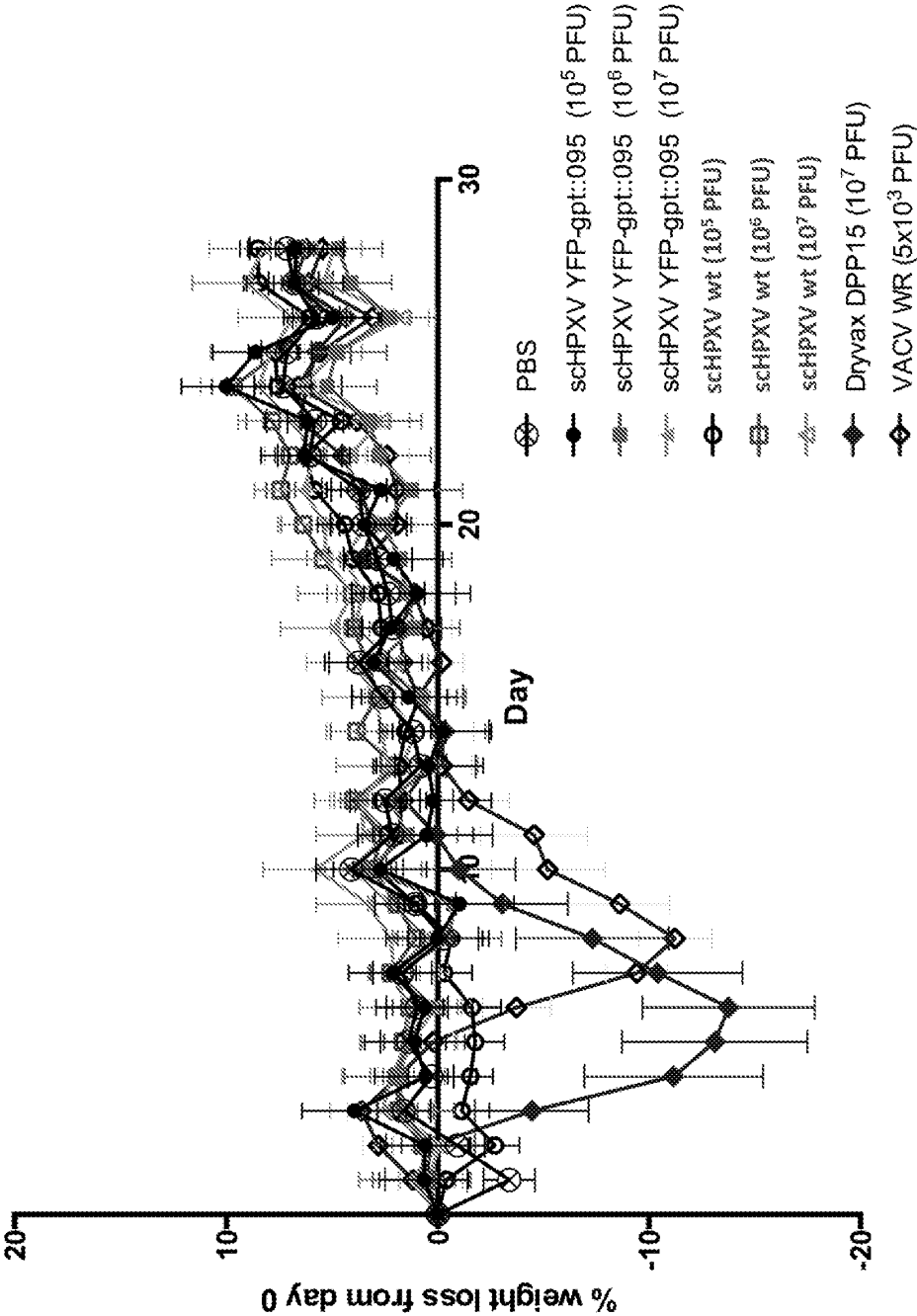


Figure 11A

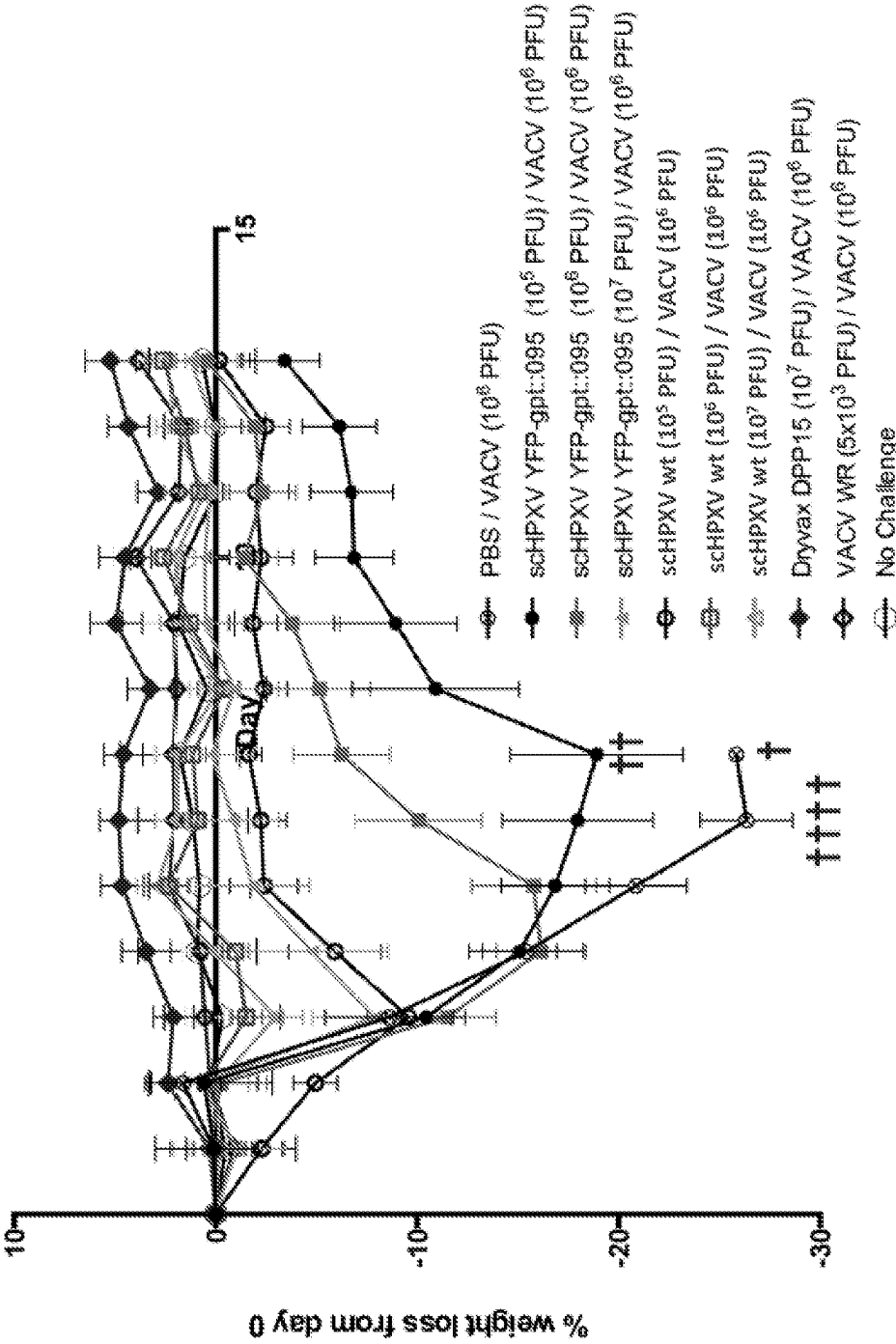


Figure 11B

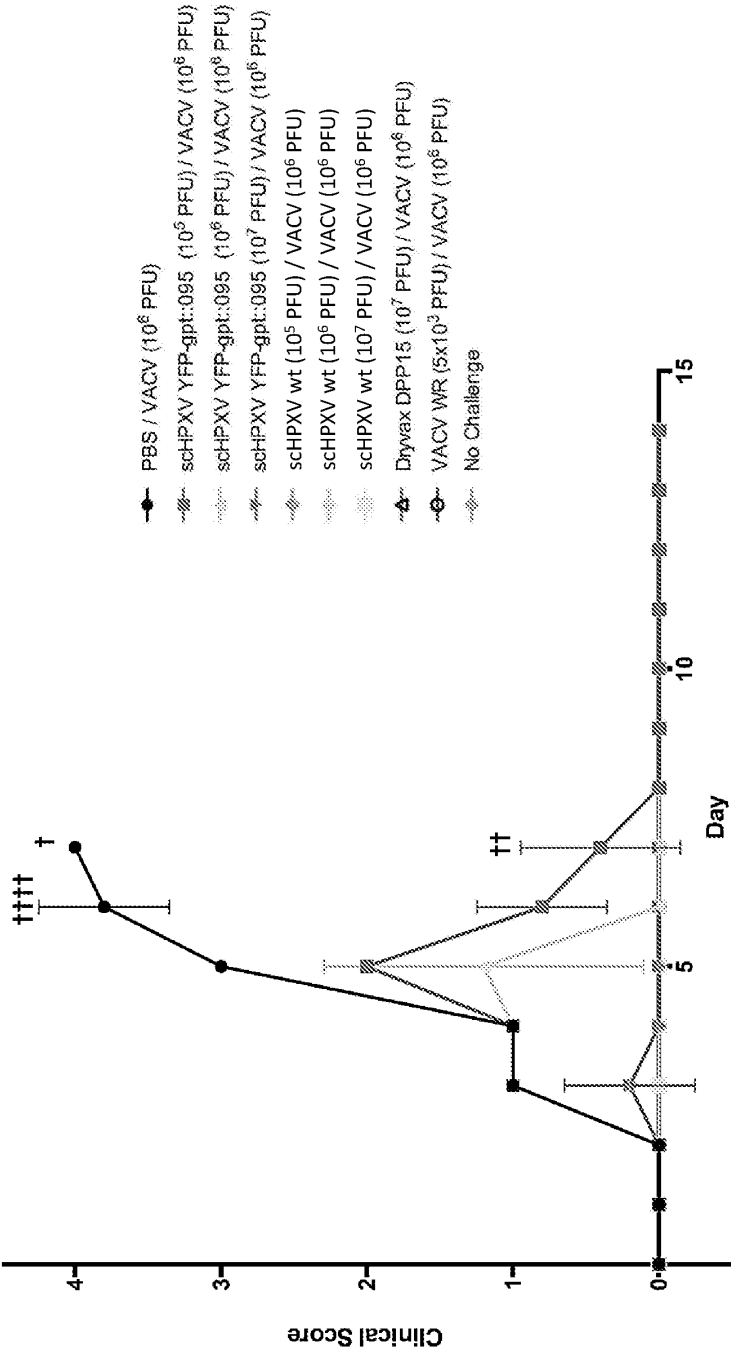


Figure 12

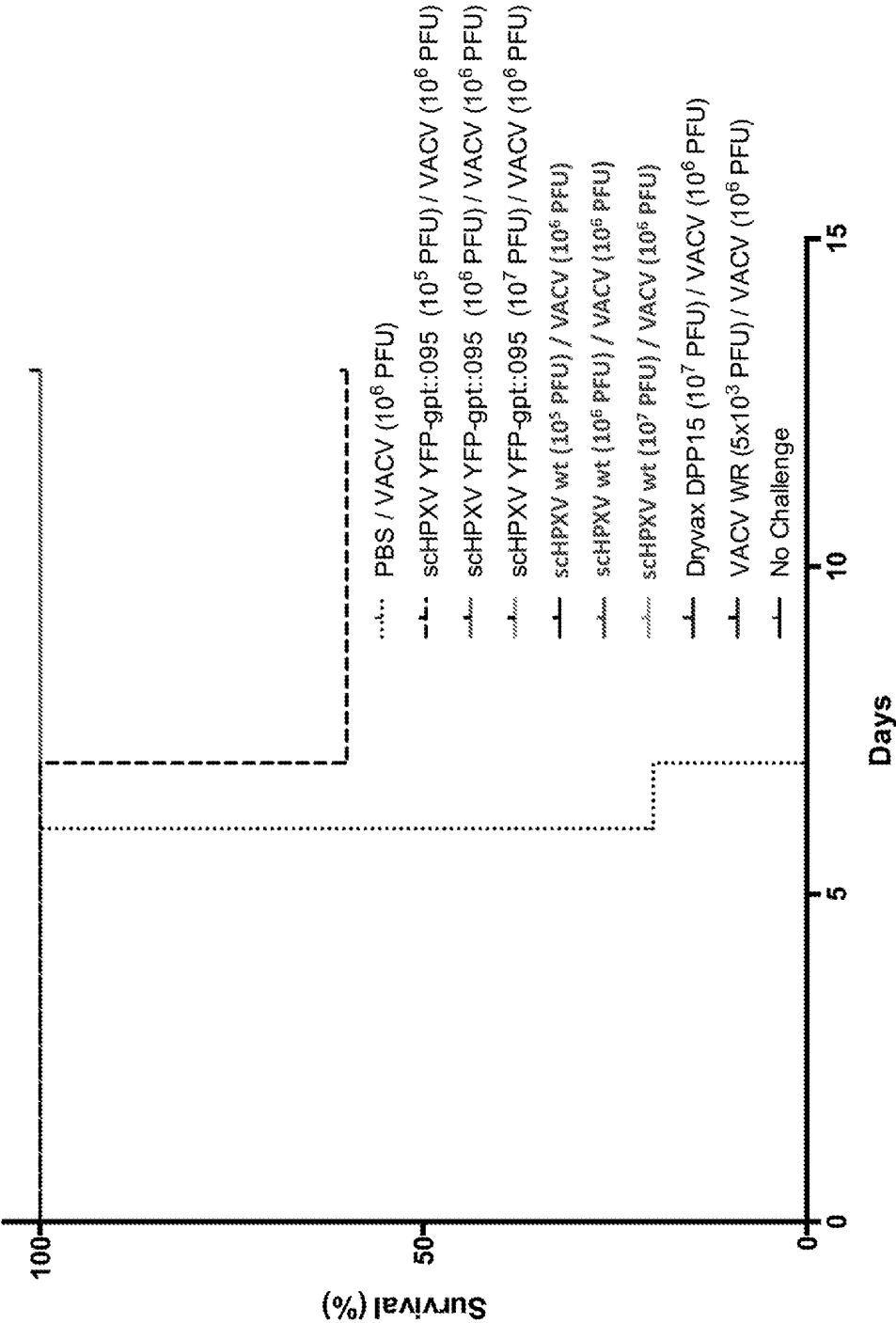


Figure 13A

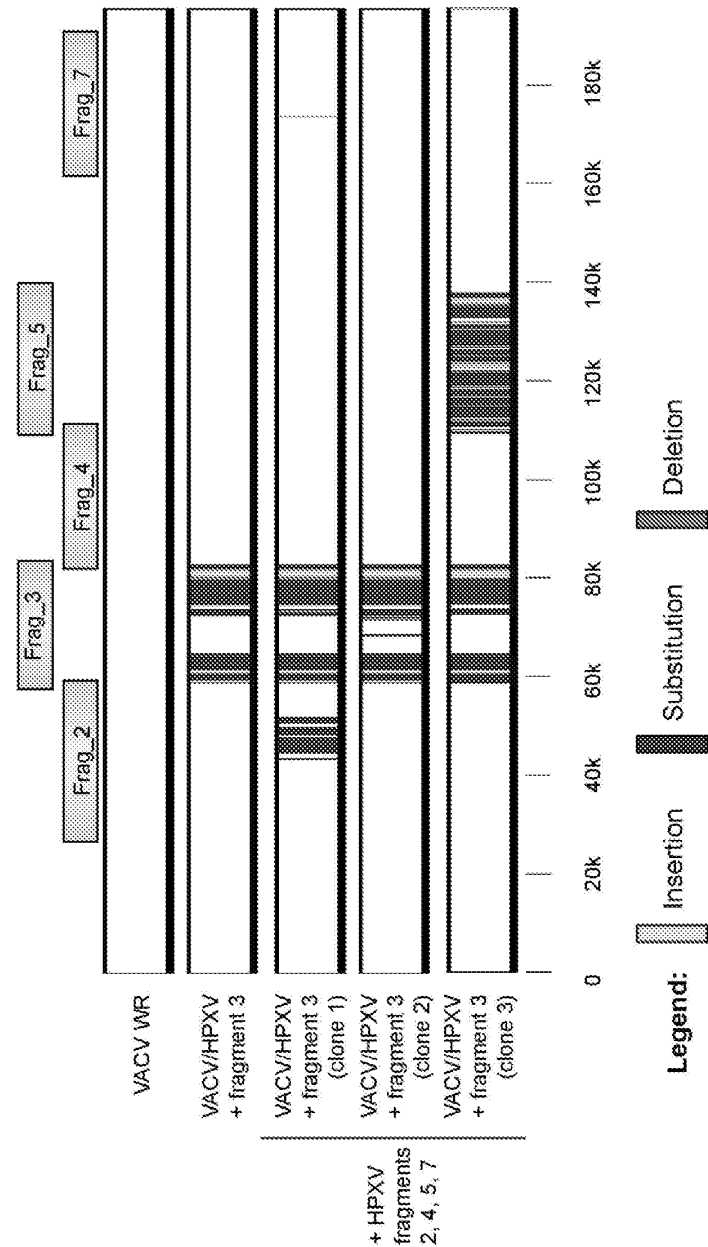


Figure 14A

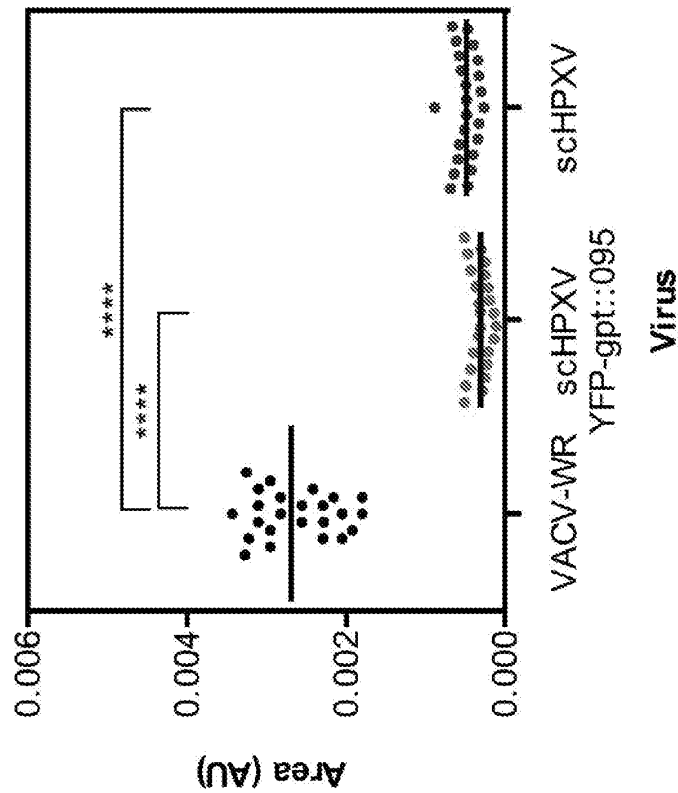


Figure 14B

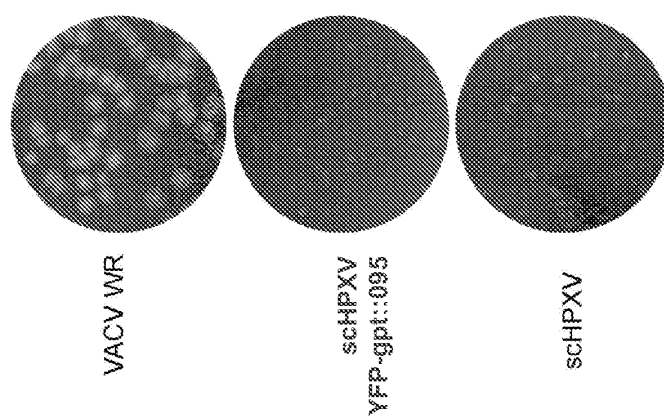


Figure 14C

