

Figure 1A

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

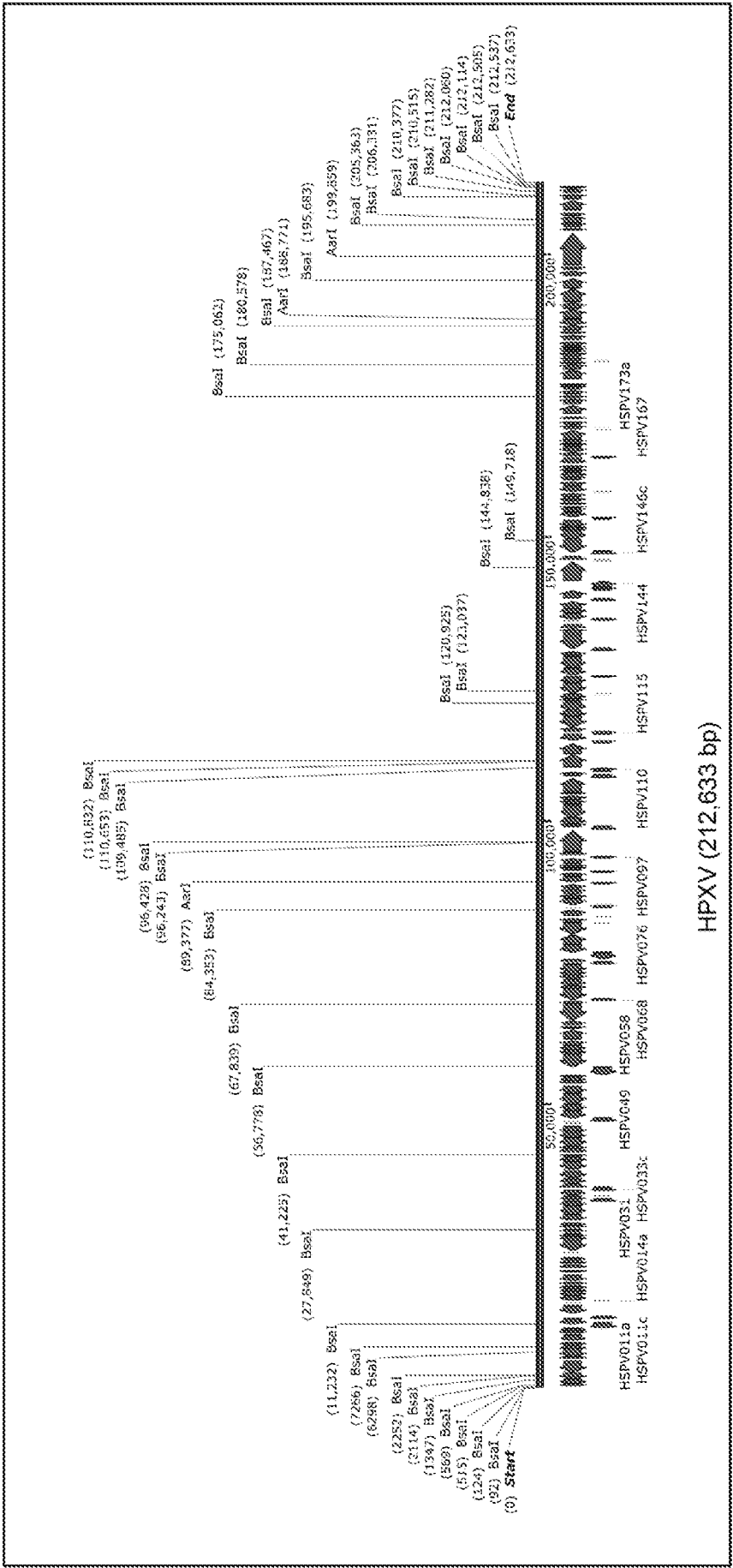


Figure 1B

scHPXV genome used for DNA synthesis

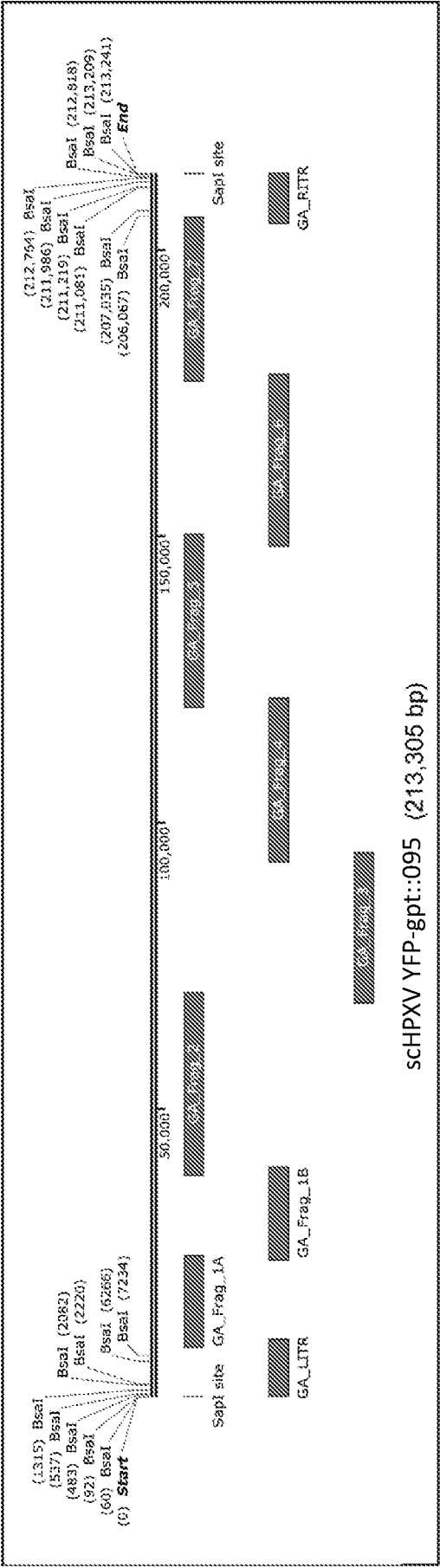


Figure 3A

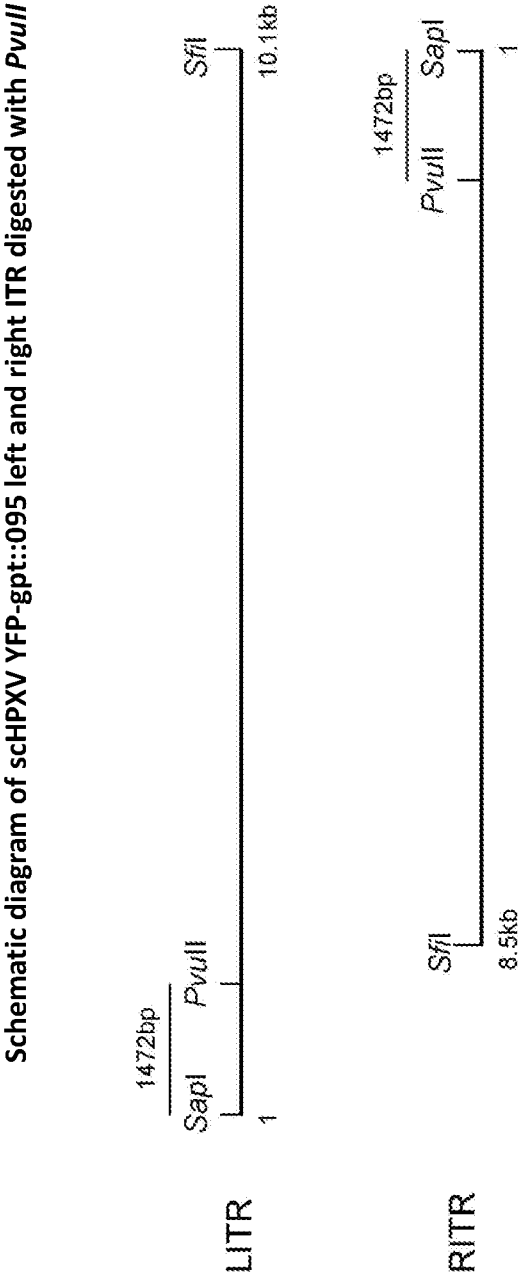


Figure 3B

Ligation of VACV terminal hairpins onto left and right ITR

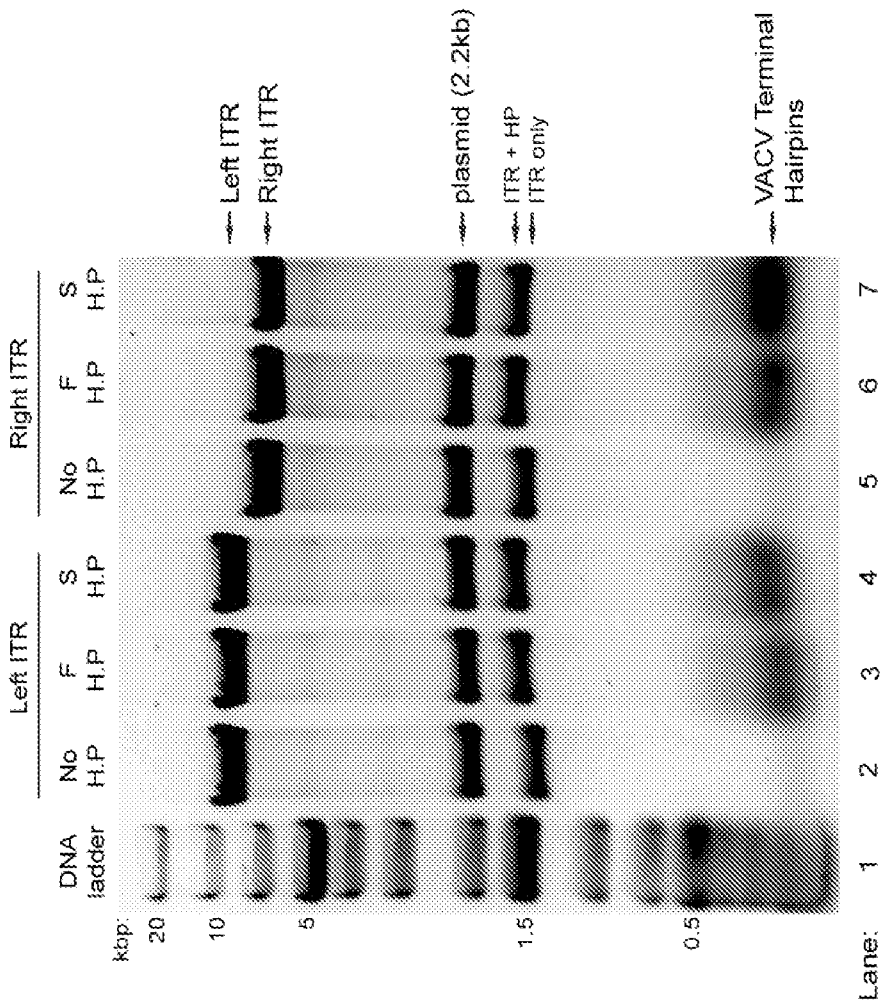


Figure 4A

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

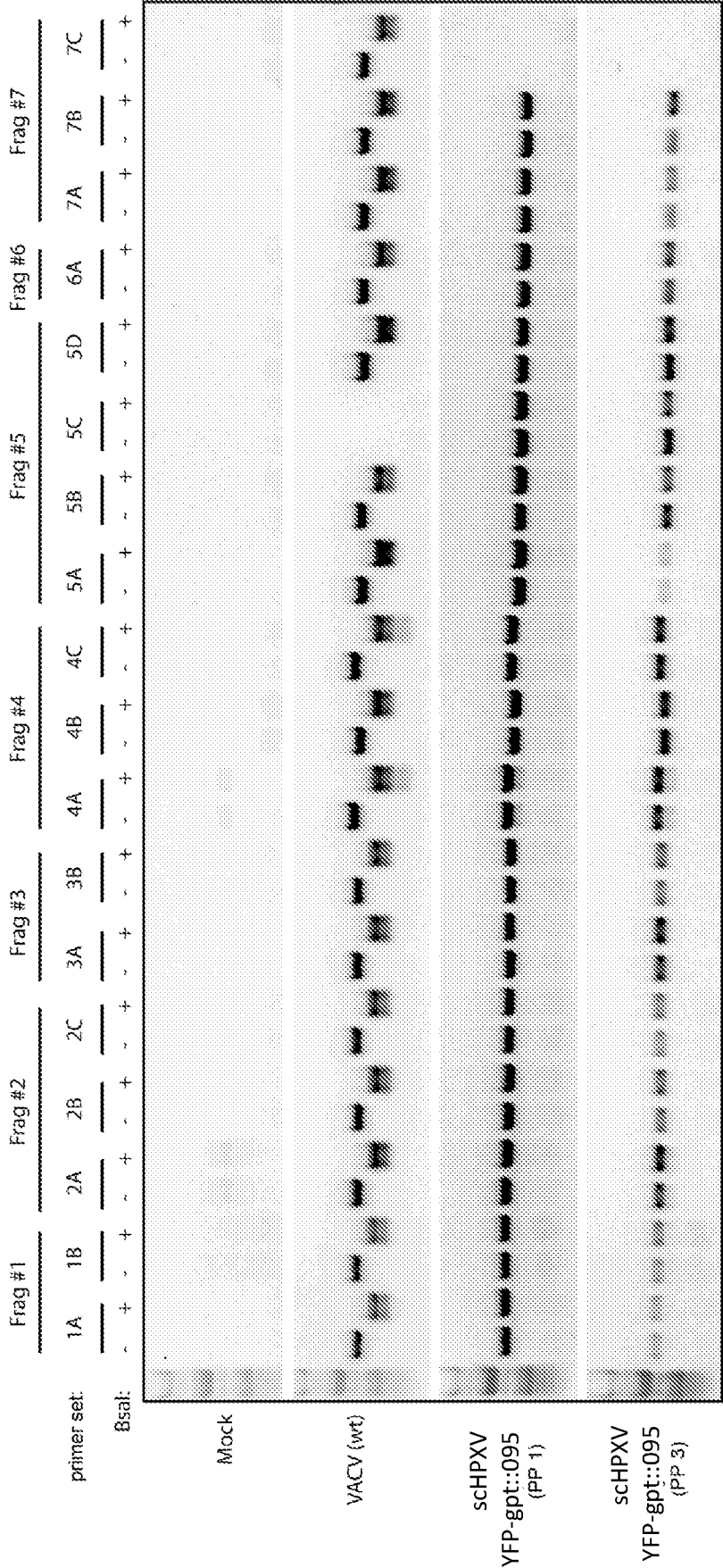


Figure 4B

PFGE of scHPXV YFP-gpt::095 following *BsaI* and *HindIII* digest

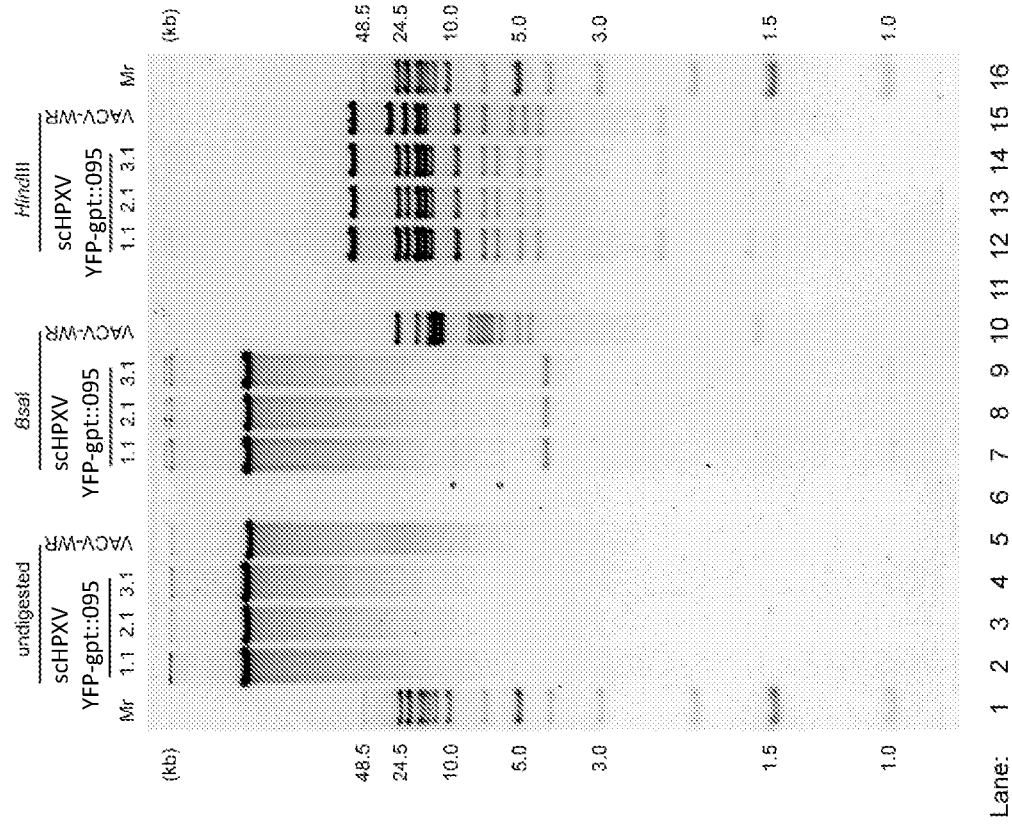


Figure 4C

Agarose electrophoresis of scHPXV YFP-gpt::095 following *Bsa*I and *Hind*III digest

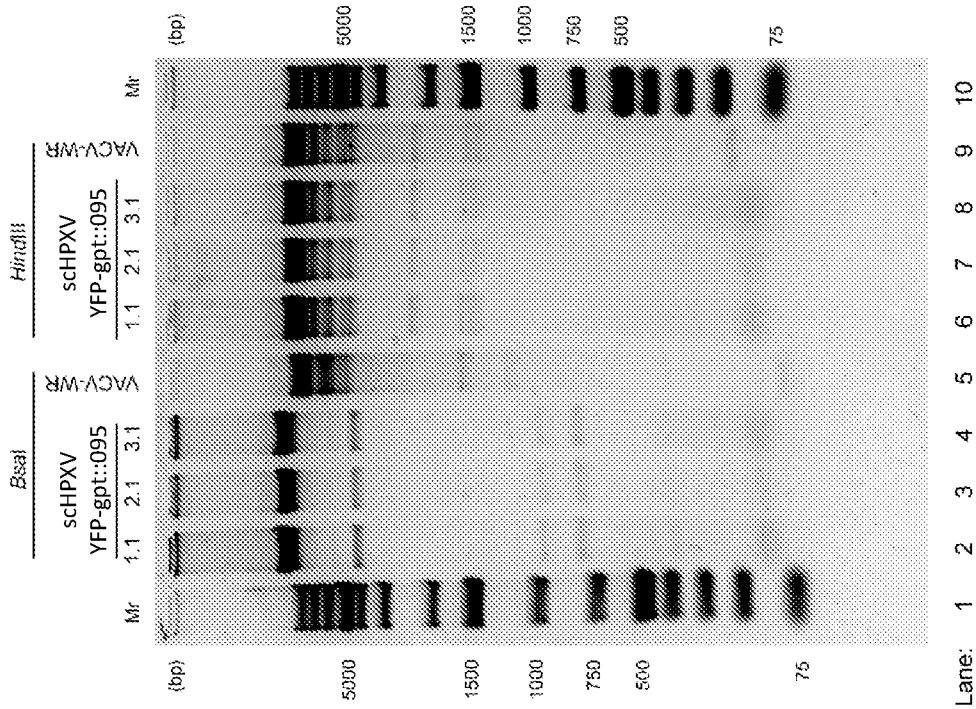


Figure 5A



Figure 5B

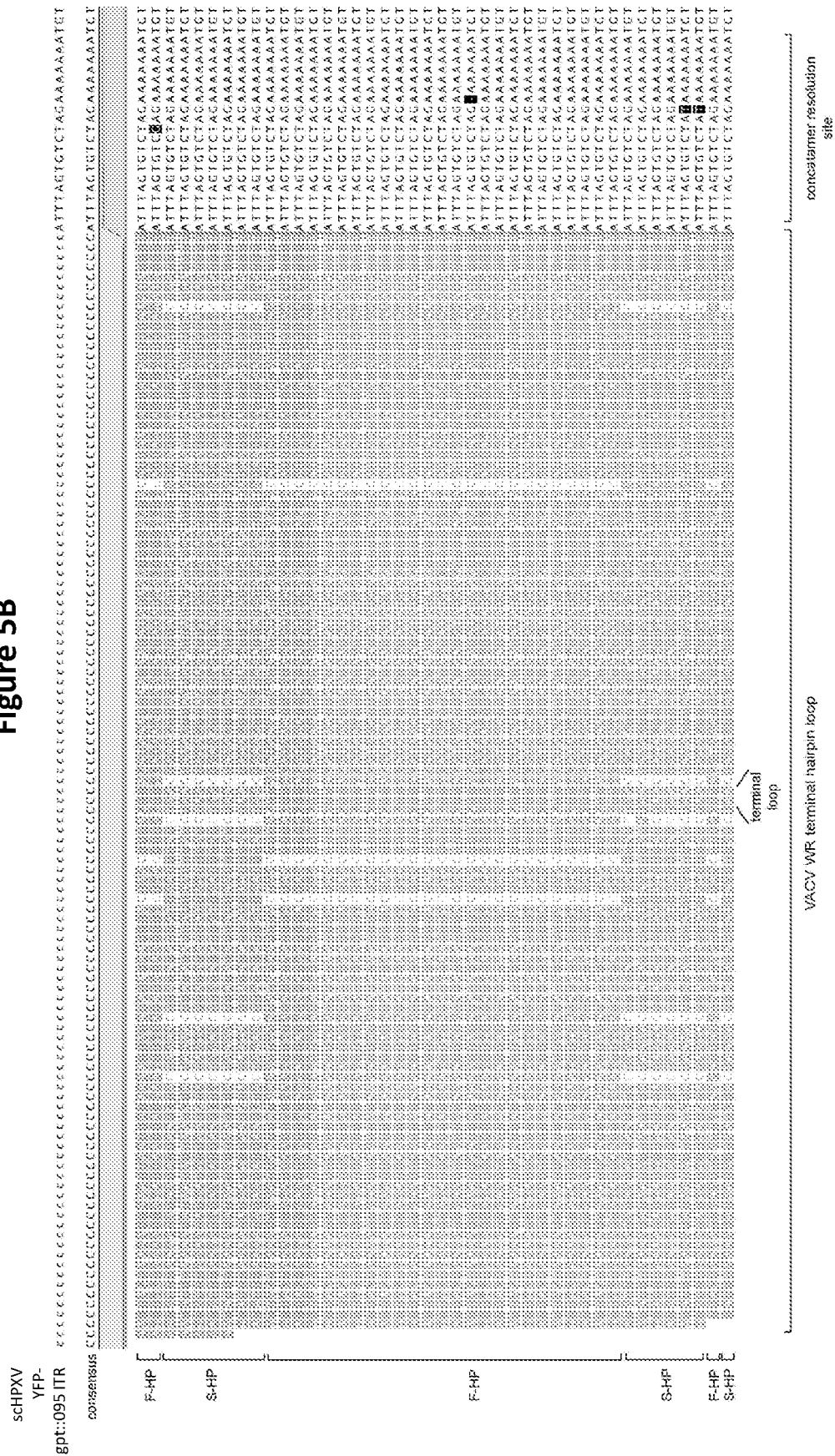


Figure 6A

Overall Illumina read coverage in scHPXV YFP-gpt::095 region 96,050 to 96,500

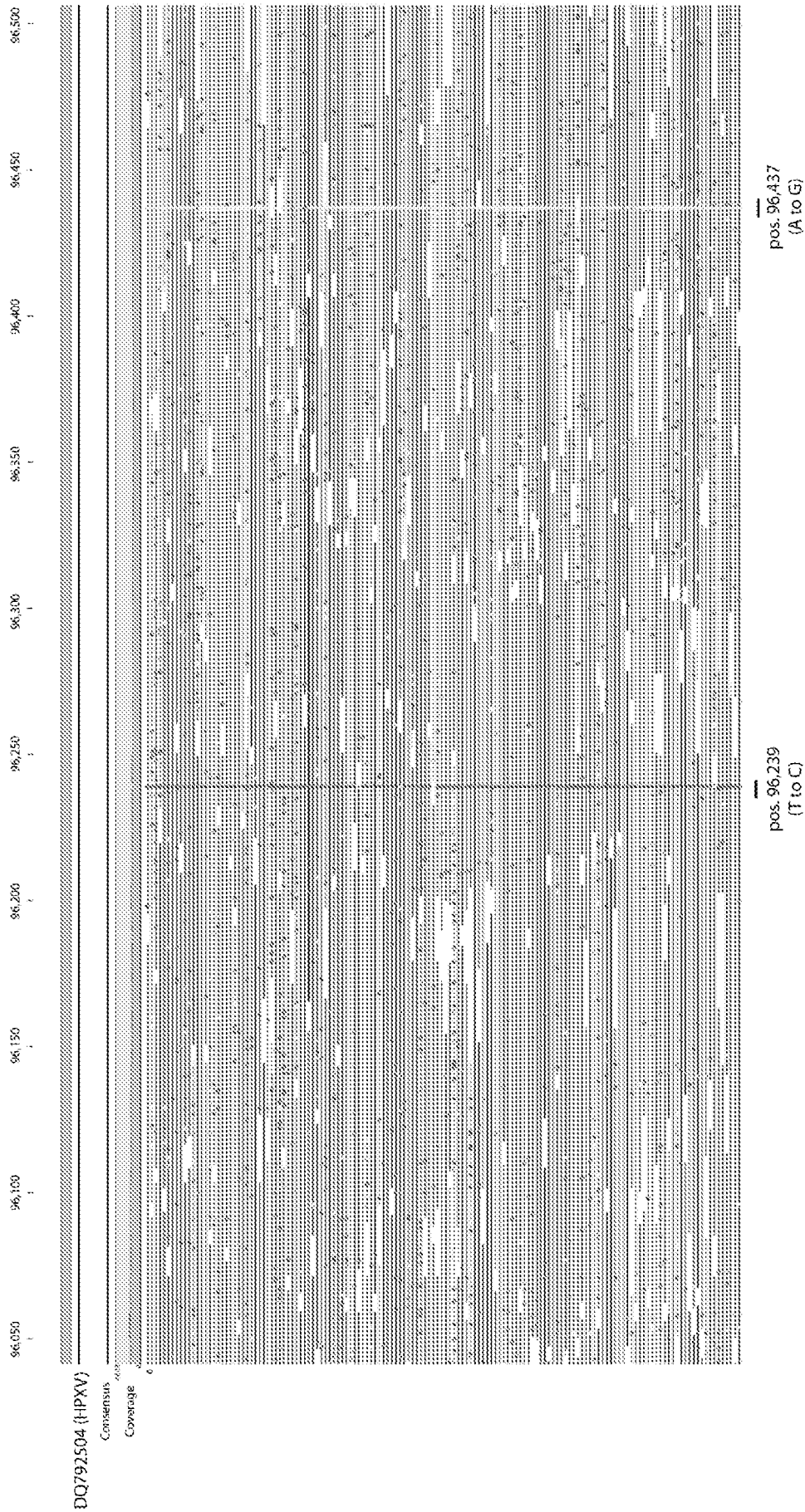


Figure 6C

Bsal mutation at pos. 96437

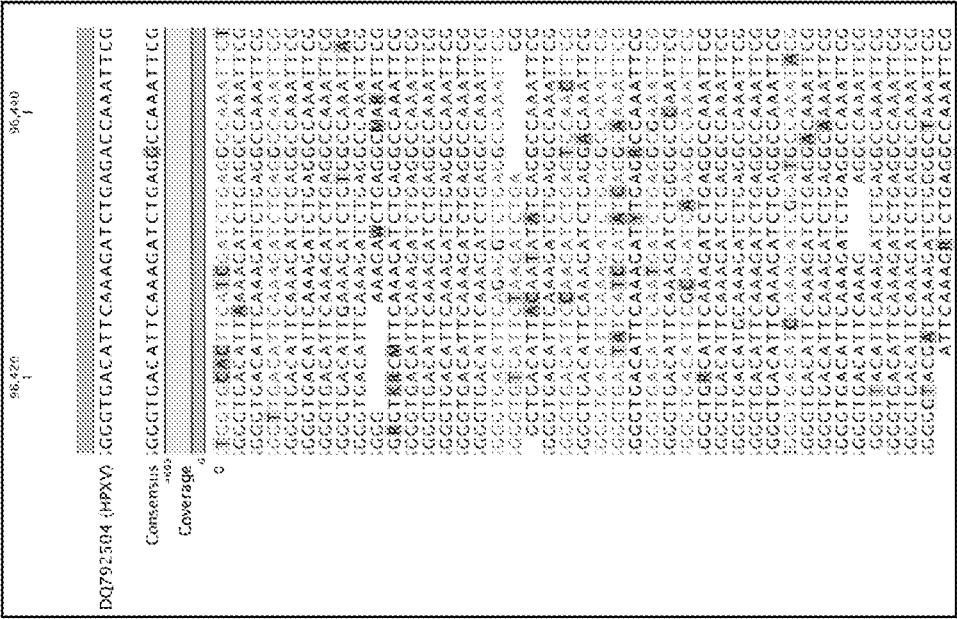
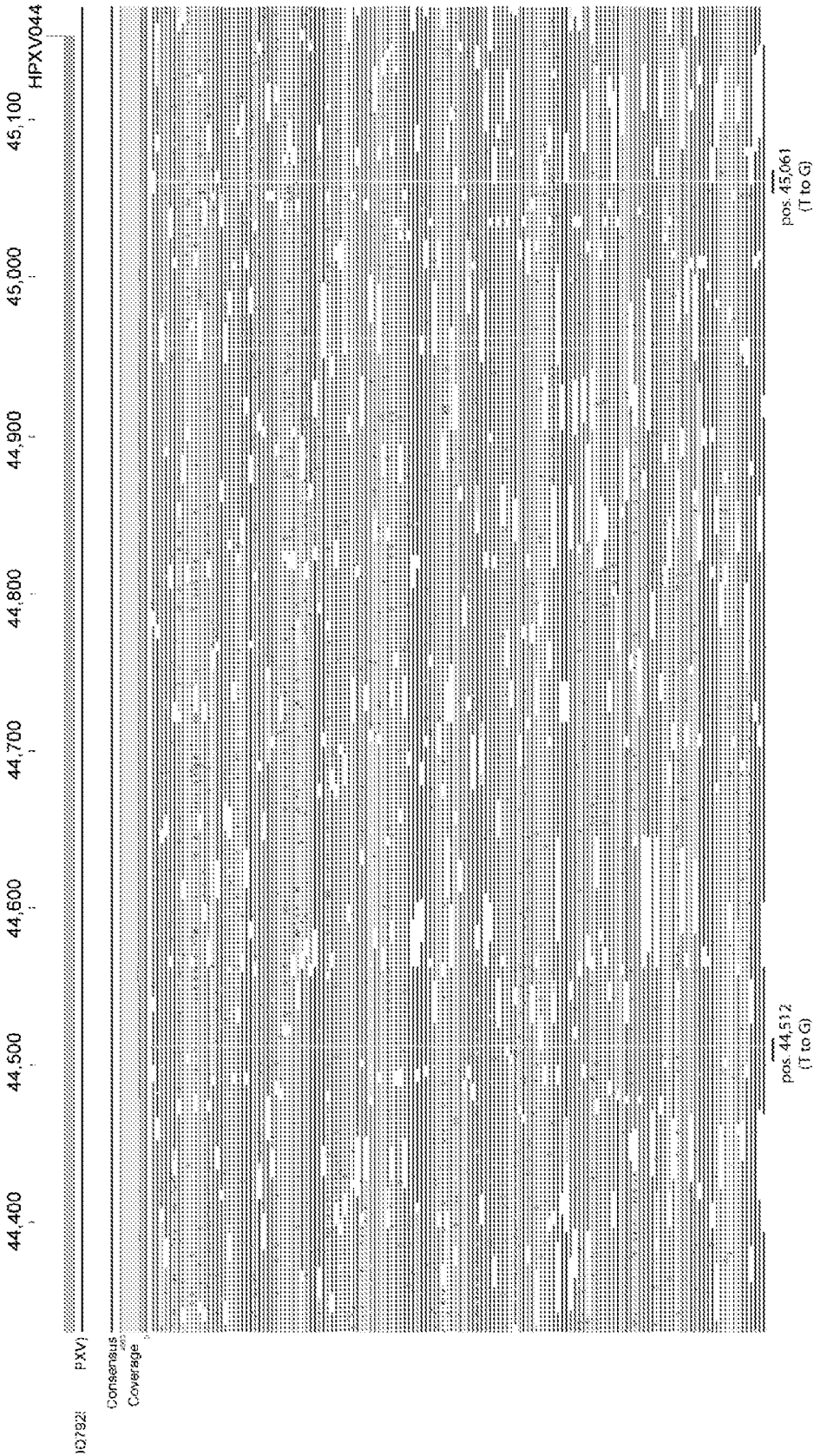
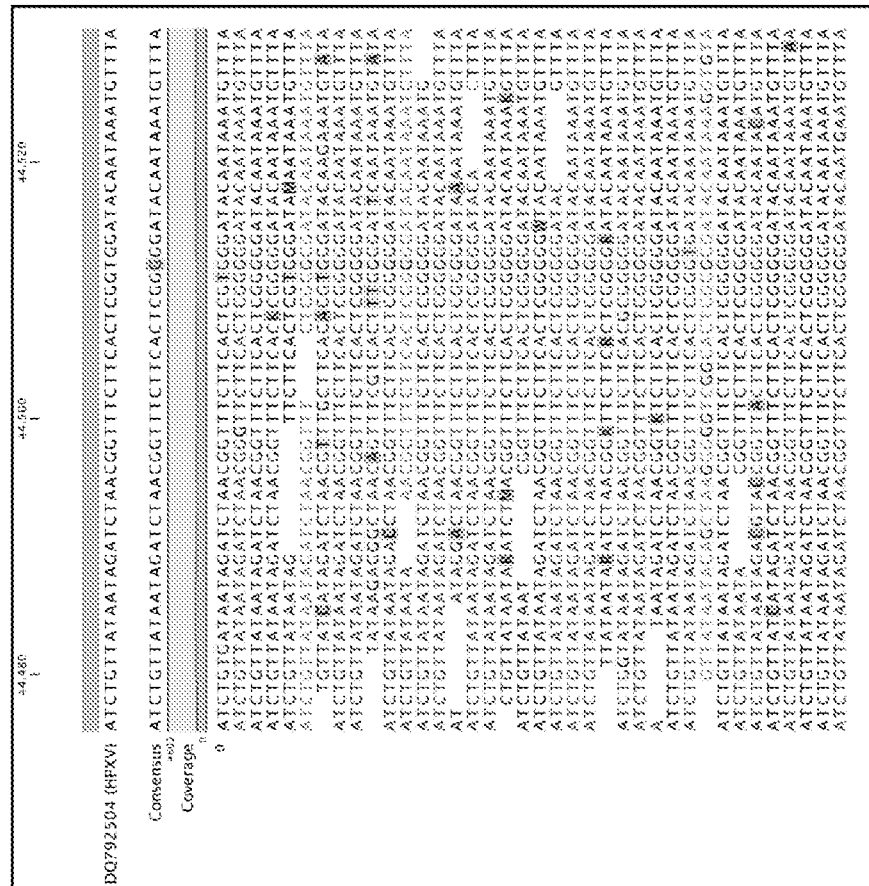


Figure 7A

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)



Nucleotide change in HPXV044 at pos. 45,061
(Creation of *Stul* restriction site)



Figure 8A

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

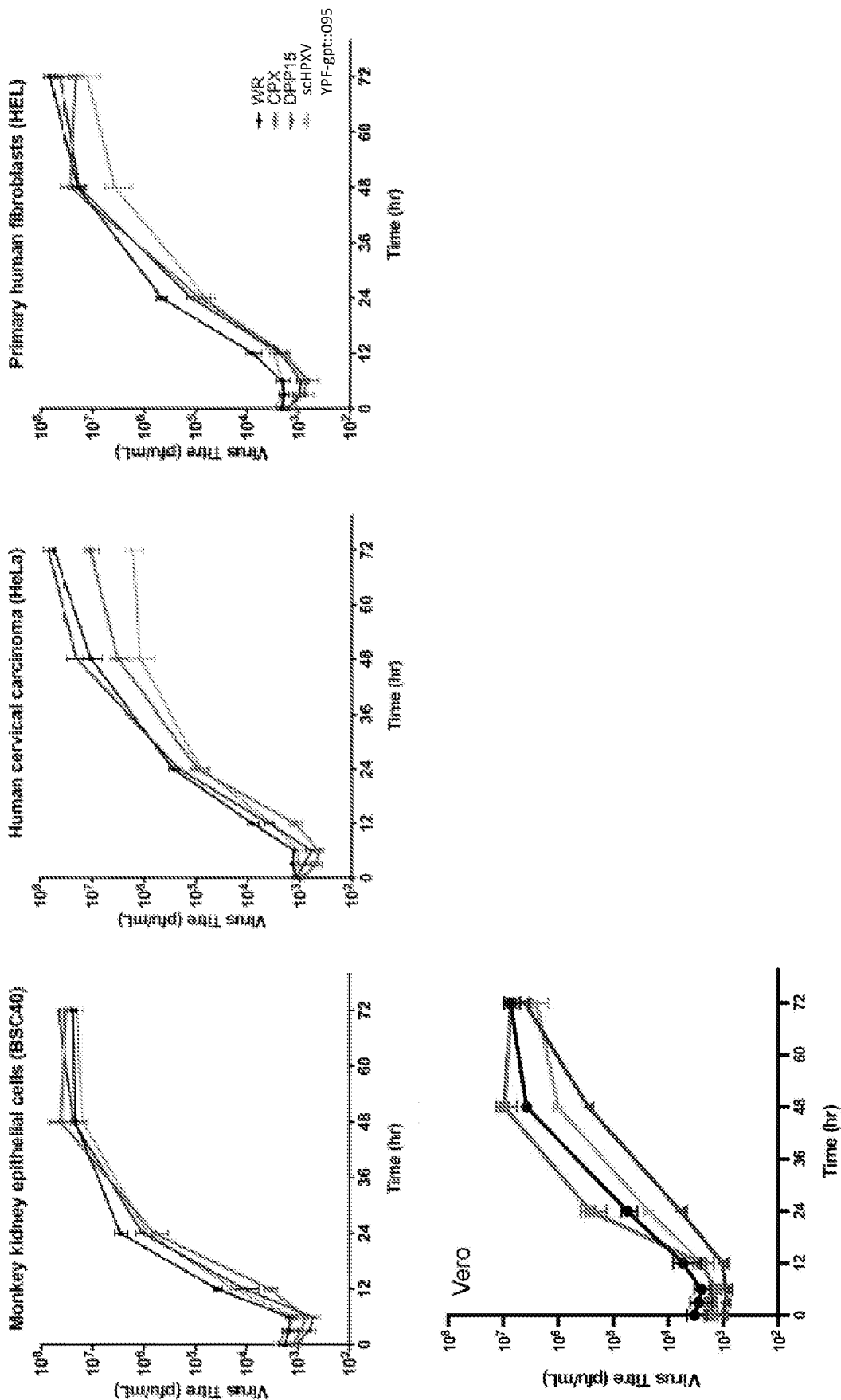


Figure 8B

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

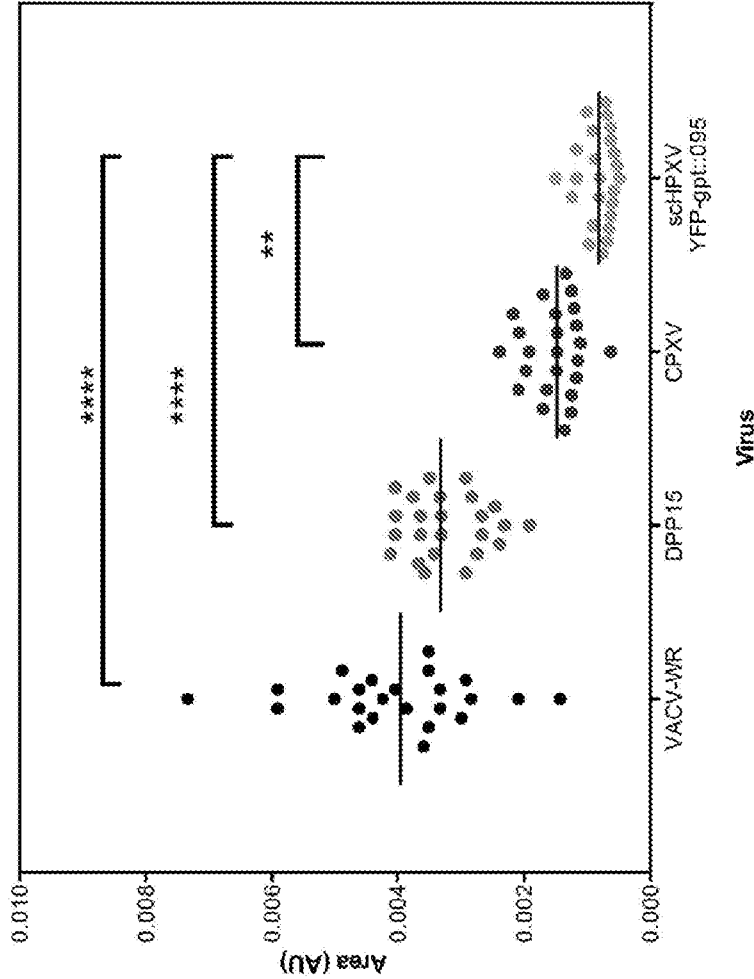


Figure 8C

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

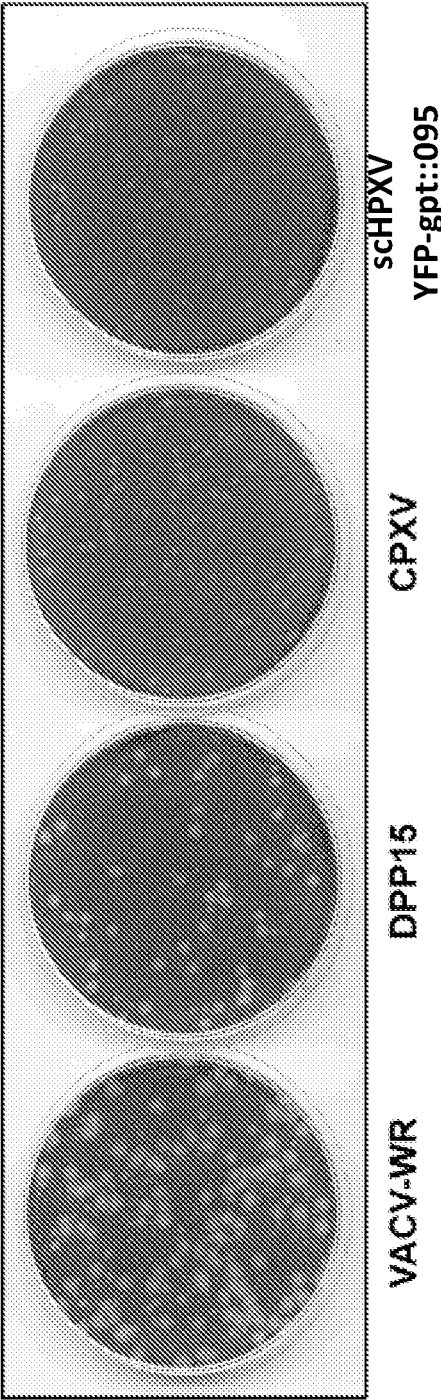


Figure 9

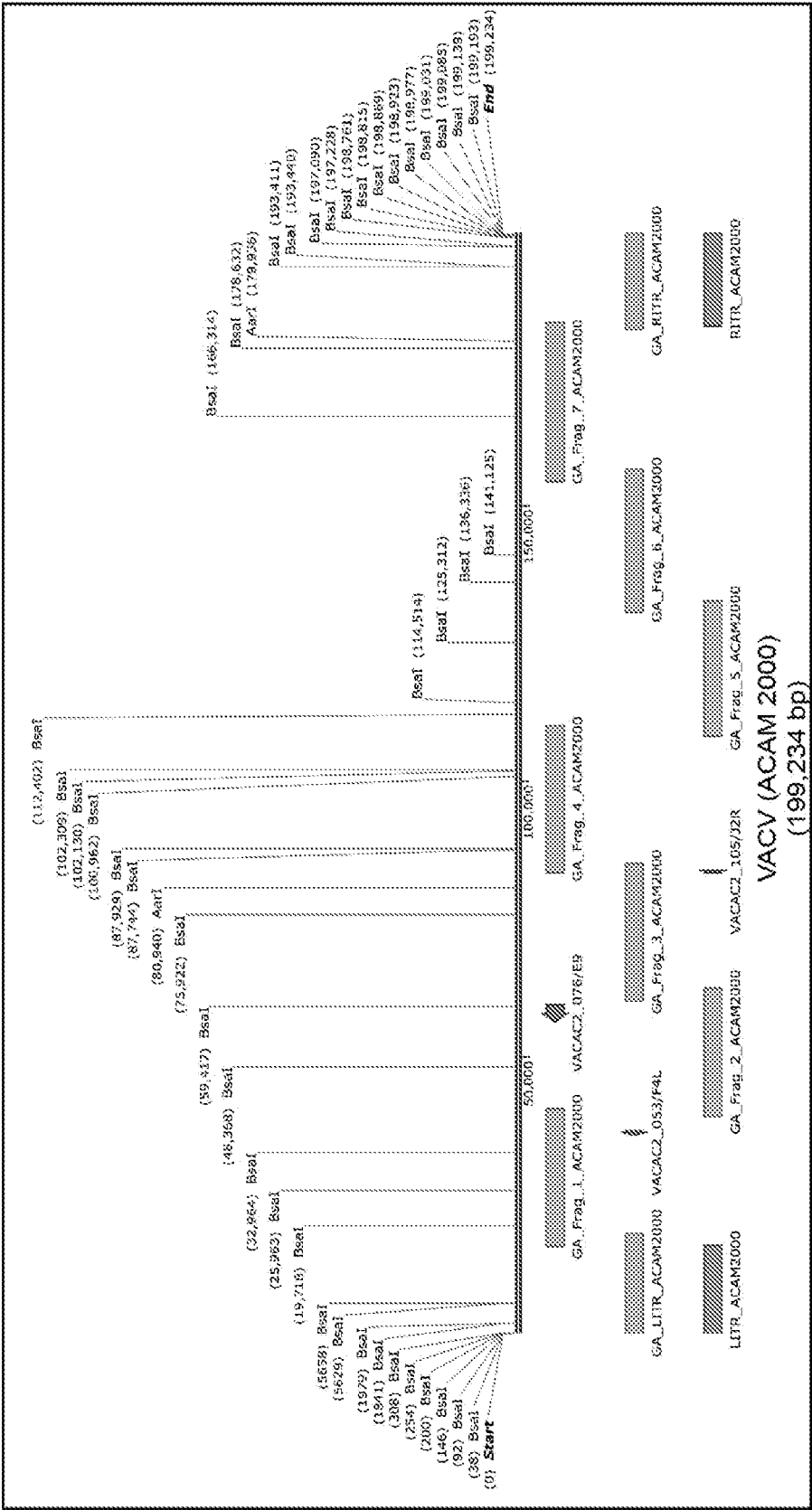


Figure 10

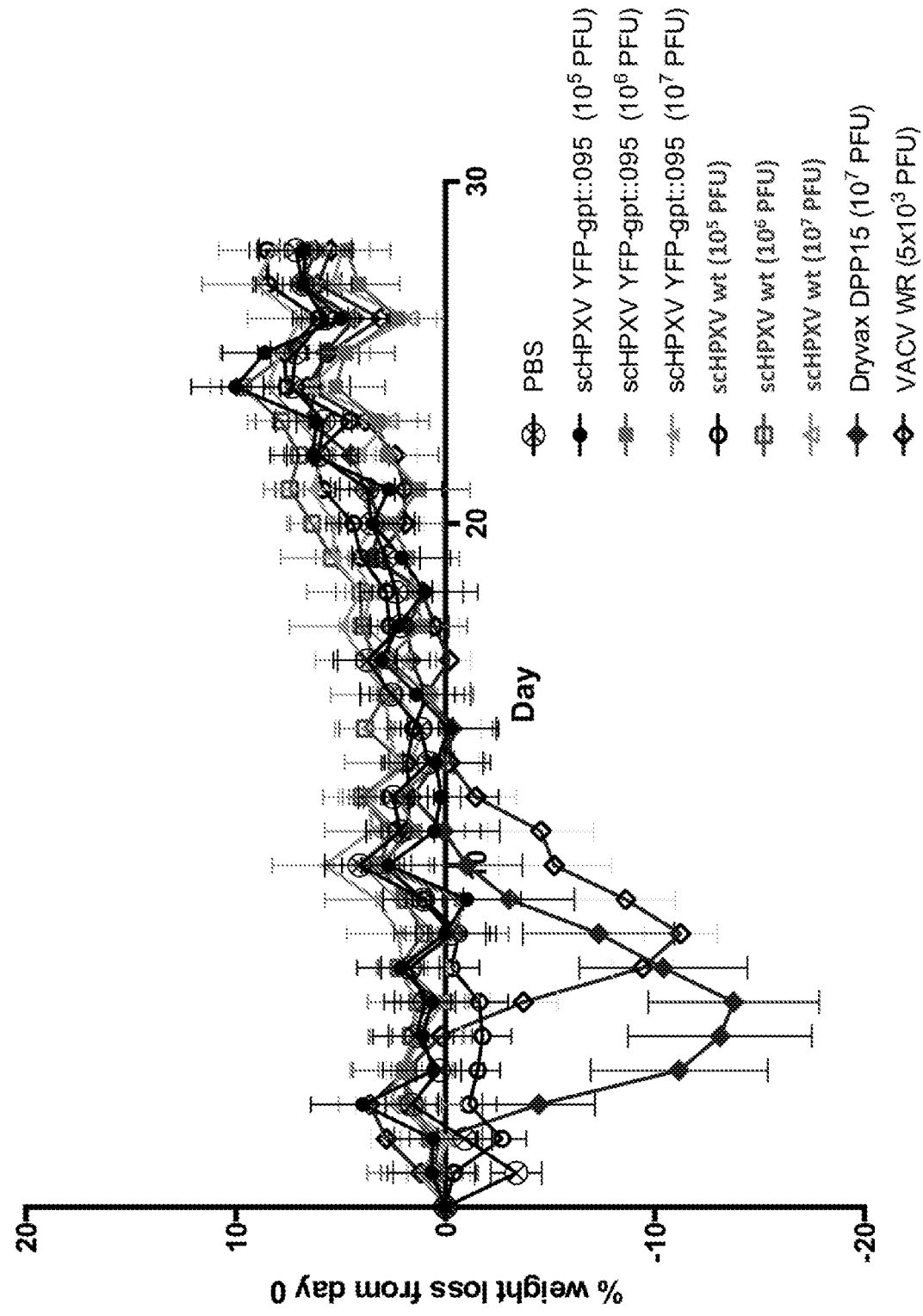


Figure 11A

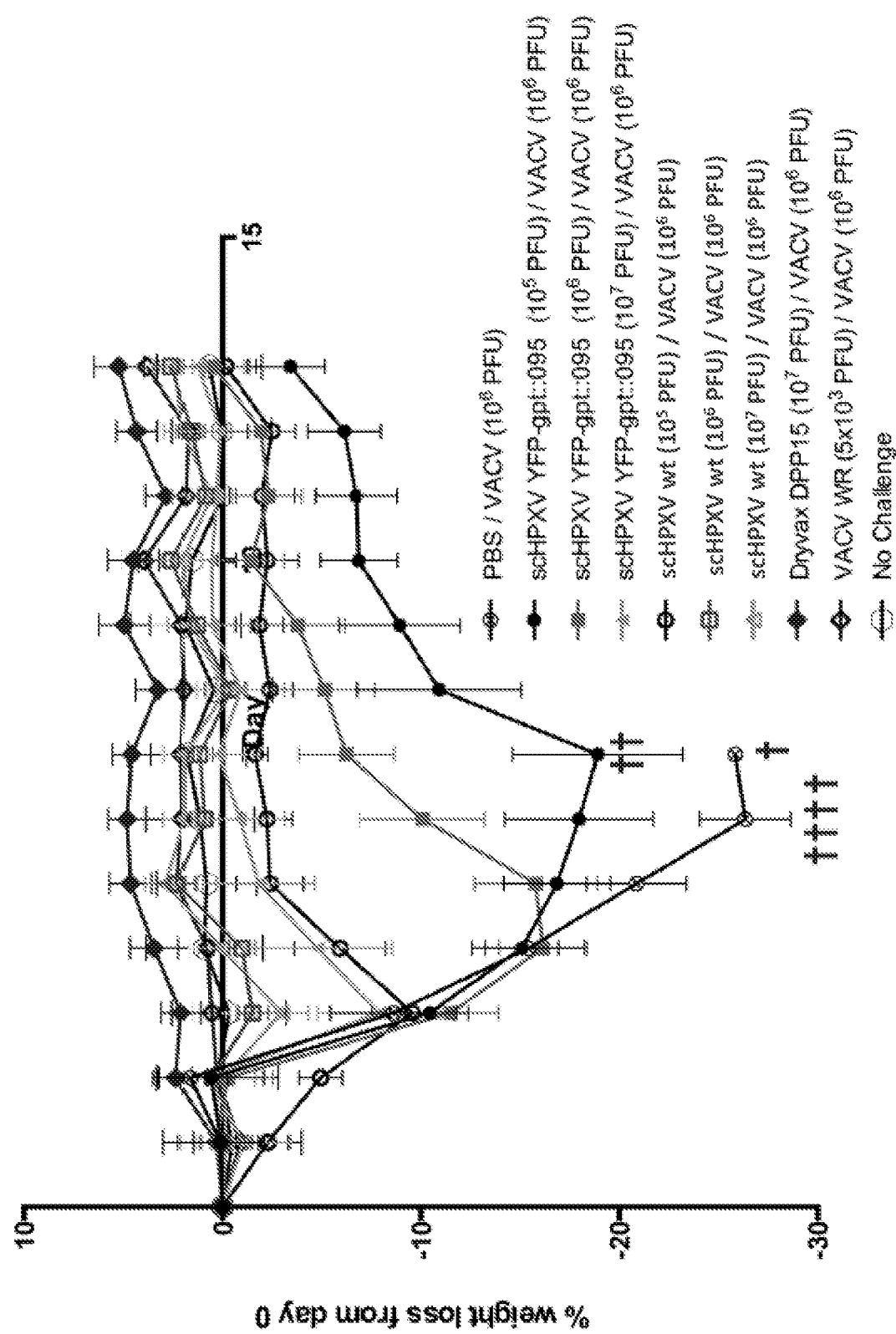


Figure 11B

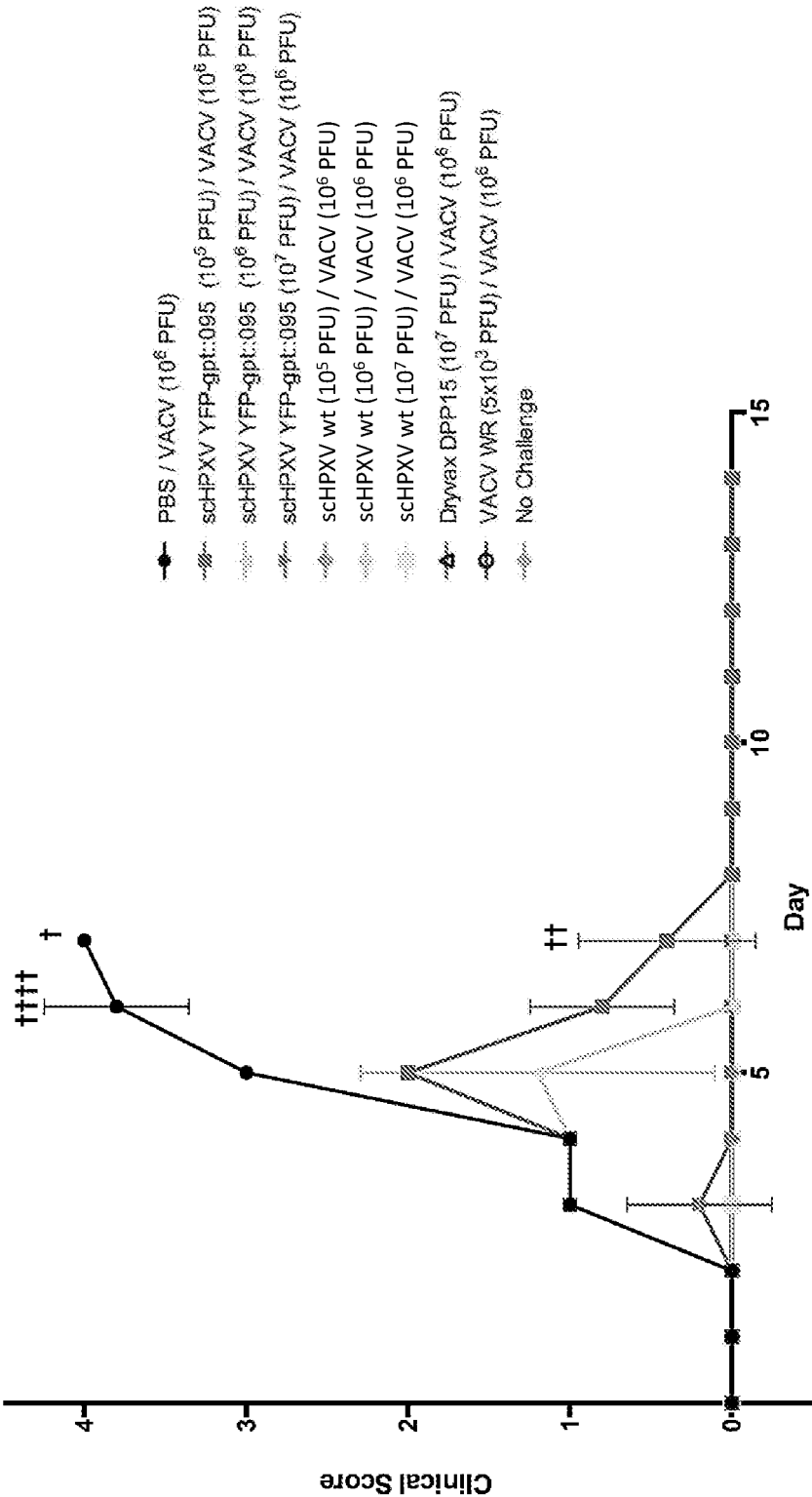


Figure 12

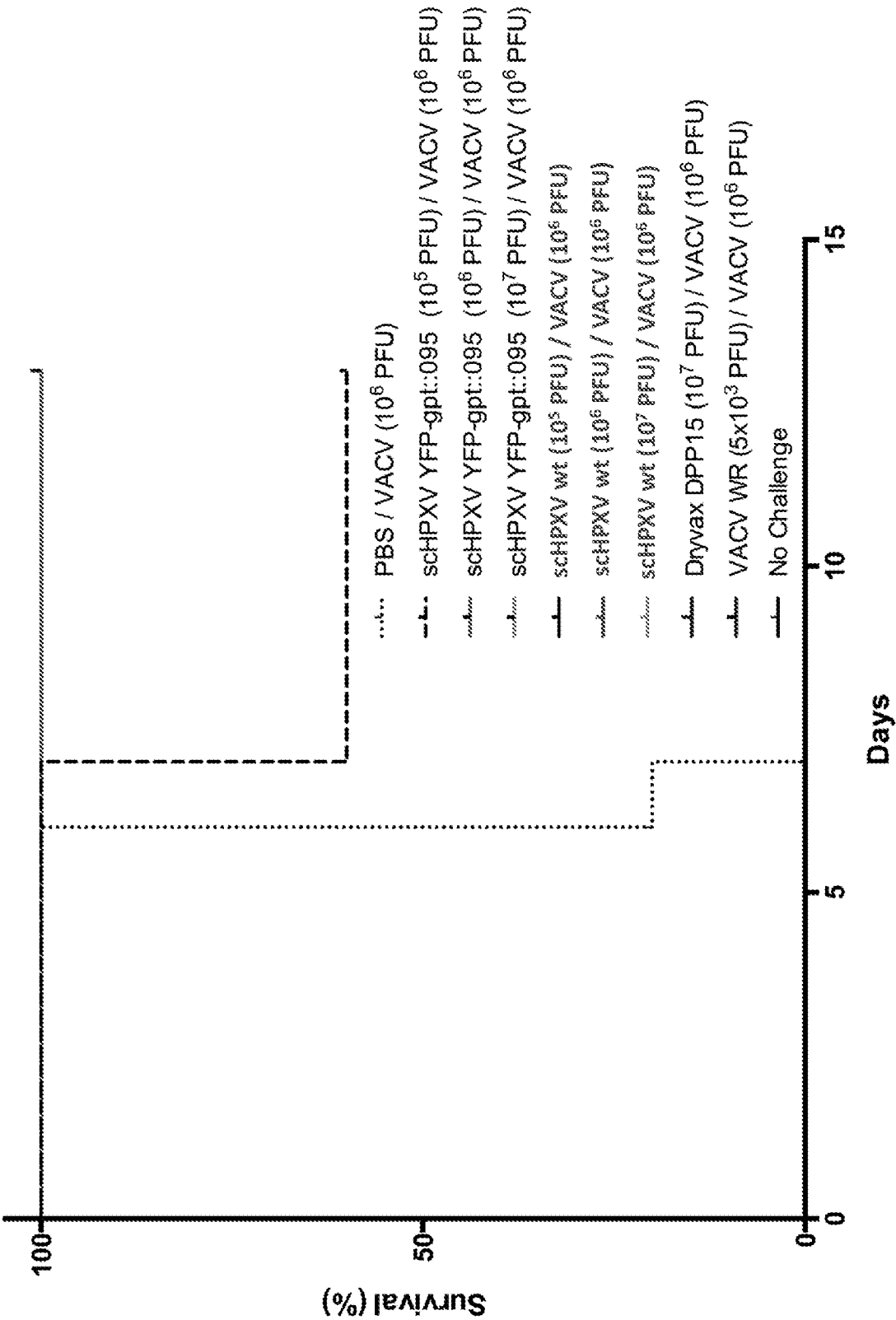


Figure 13A

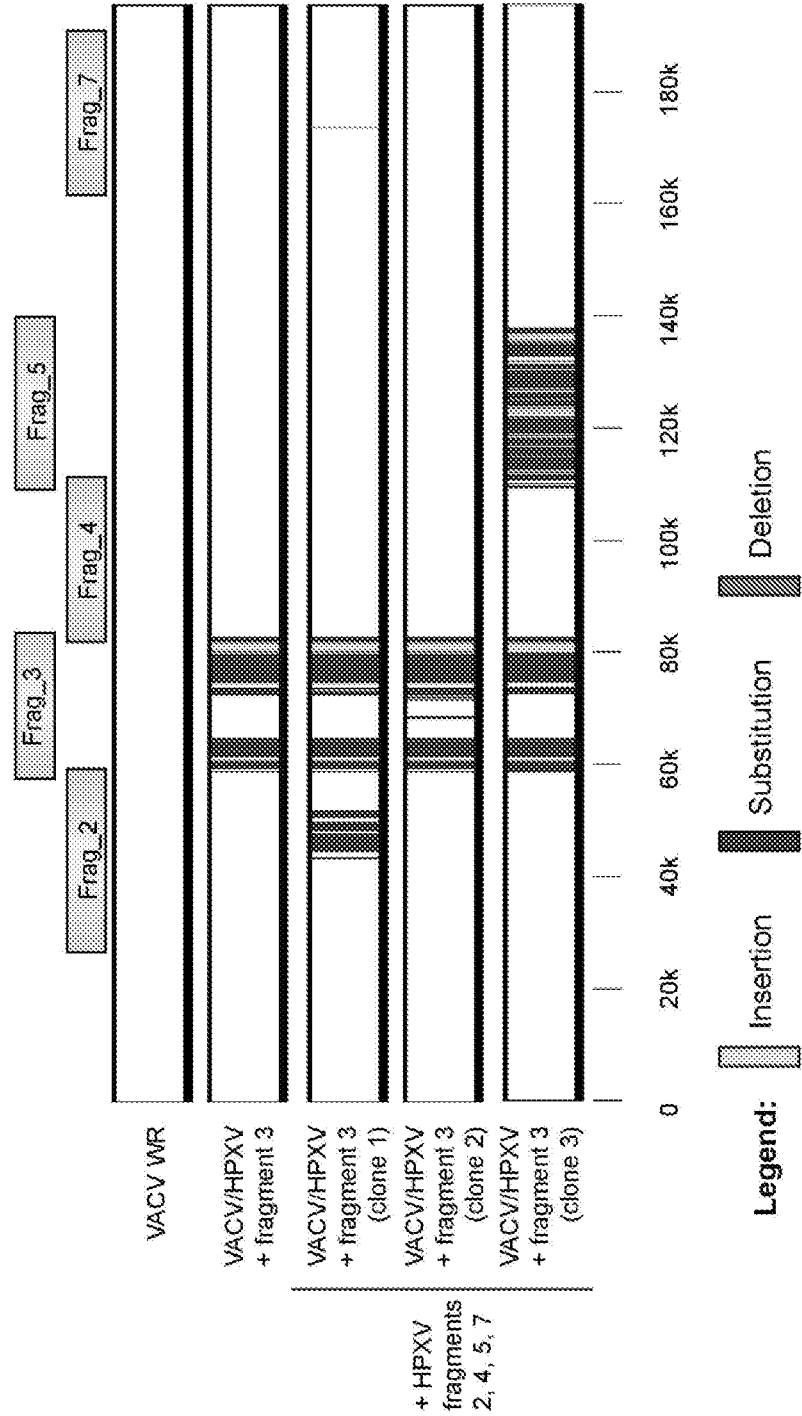


Figure 13B

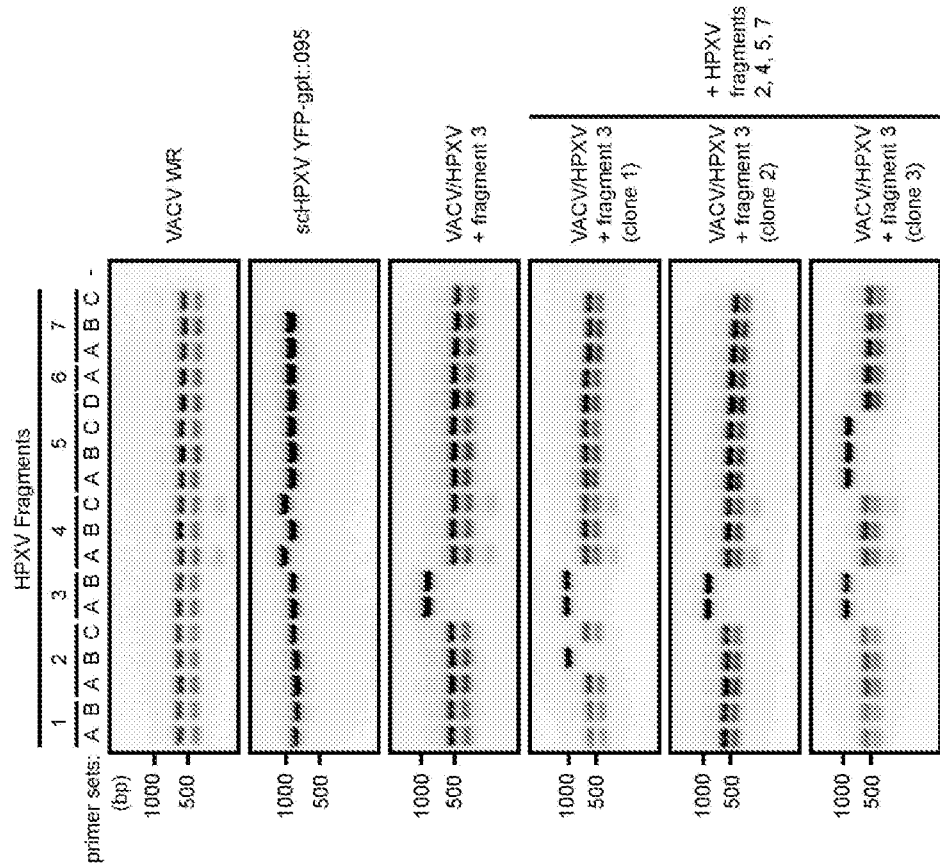


Figure 14A

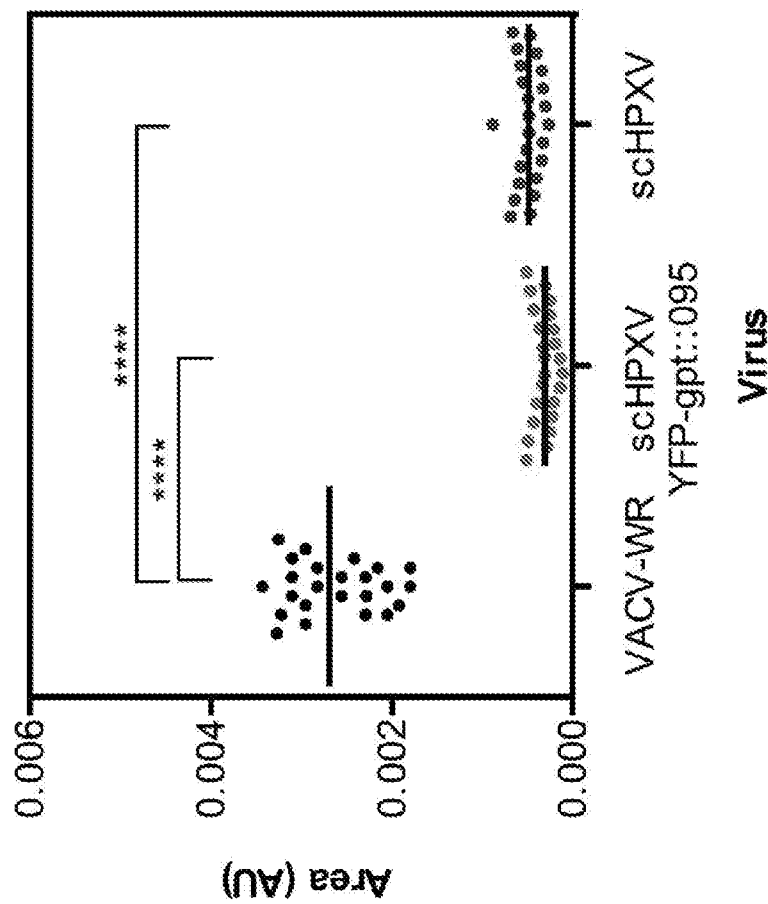


Figure 14B

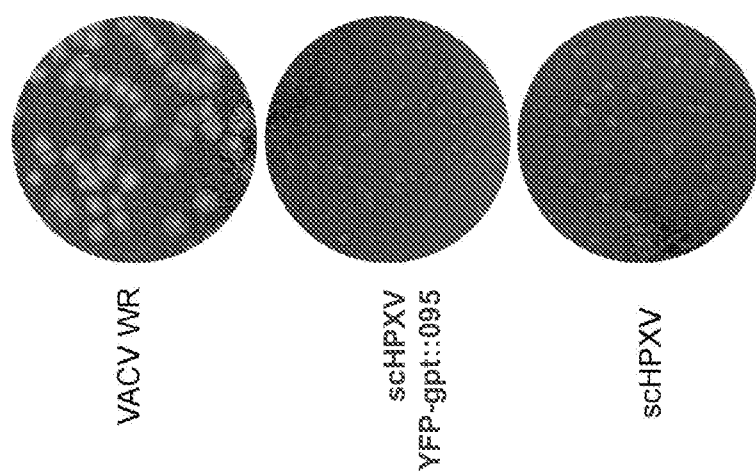


Figure 14C

