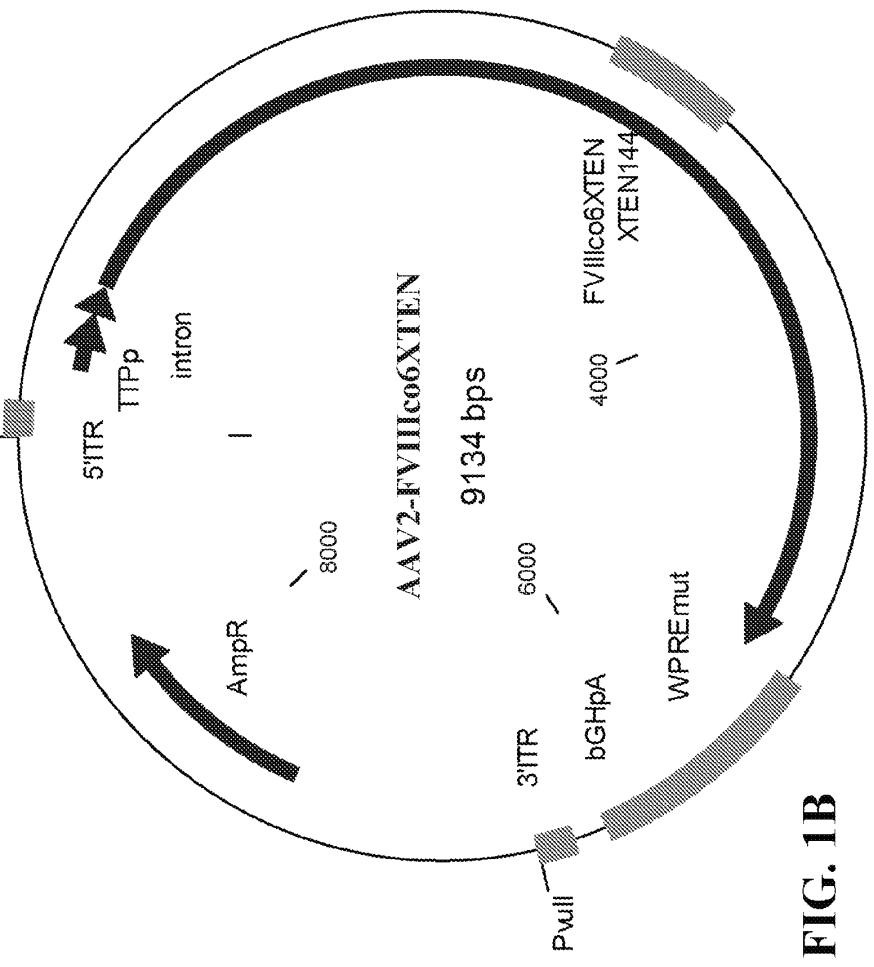




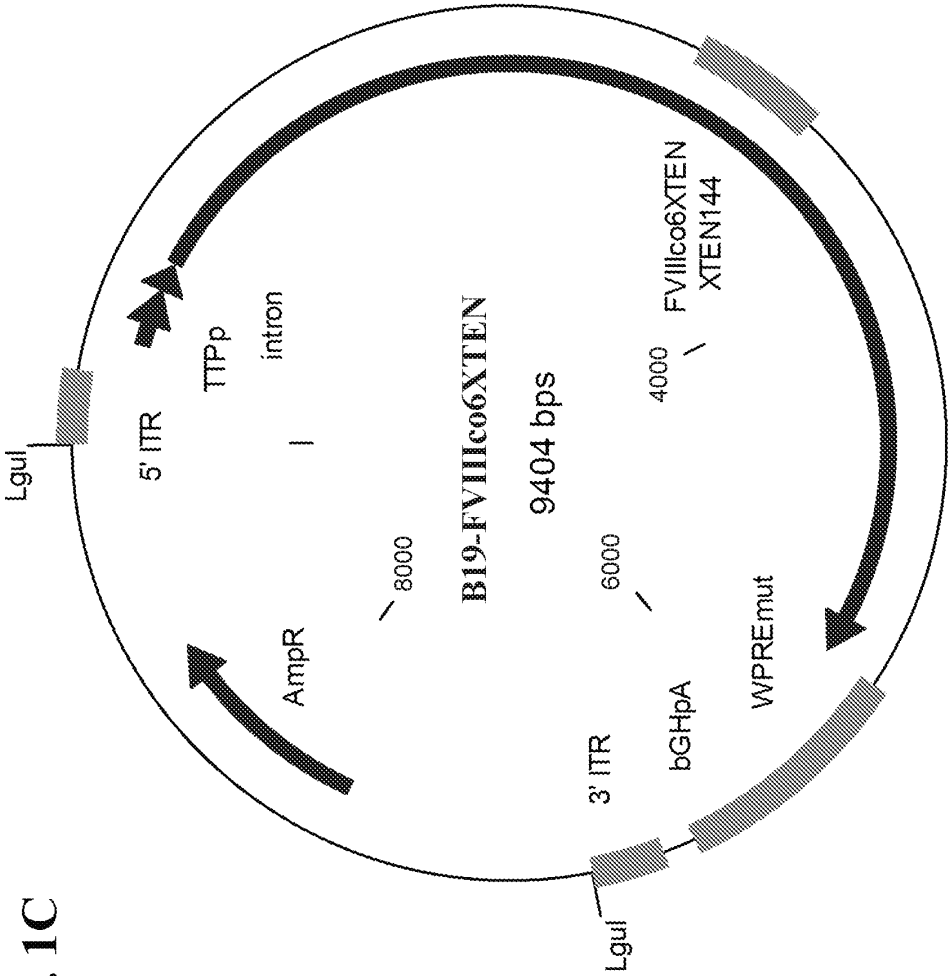


FIG. 1C

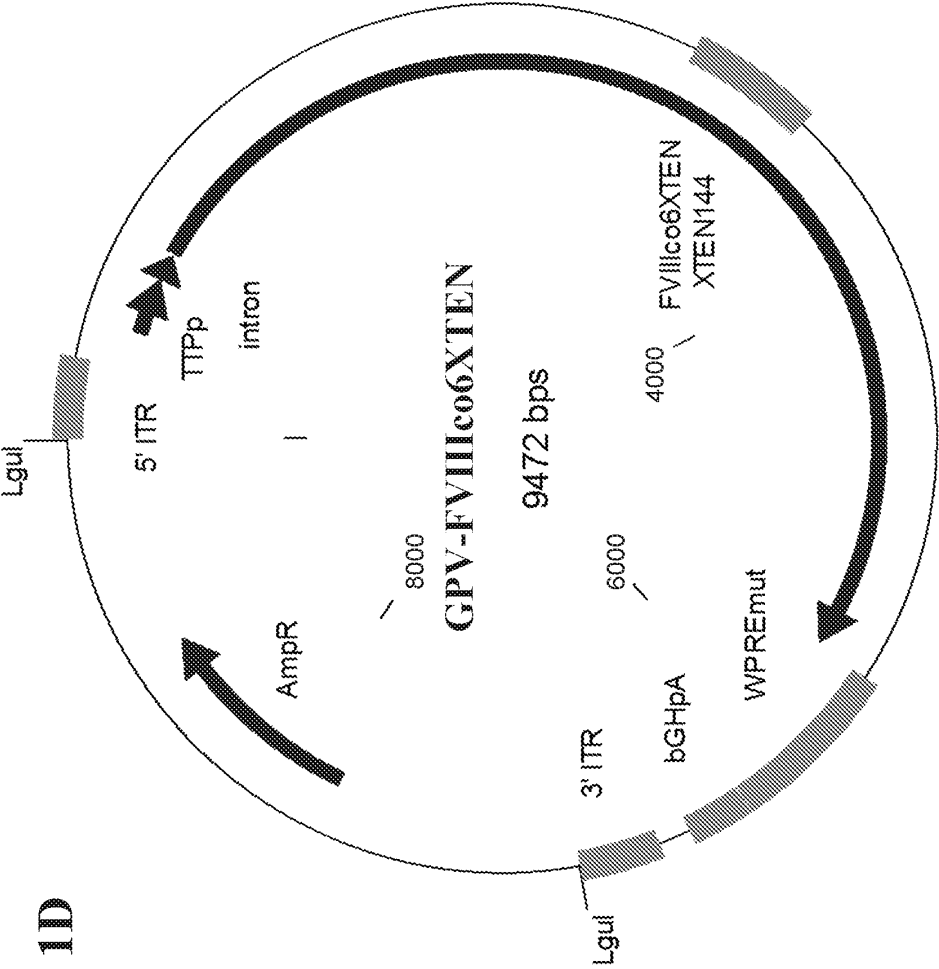


FIG. 1D

FIG. 3B

B19 → 1 caaacacagatgacgcgc-----cggctcg-----cggccc-----ggtagcgggacgc-----ccgggtt-cccaagatgggggcacattatgctc-----attctc-gtgcaggtcatctccctggaggtcactccctcgggtgggggagctccctccggaaatcagggctggctgcf-
GPU → 1-ctcatggaggtgtgtttgtcccaacgcccacatcaggggggggggaaggaagcagcgaagtcgggtccactgtgttcggtgagcgacacatccggtagcgtatgtccggtagcgt-gctccctggcacgtt-gtttccctggc-acgtgactccgcgtacat-----gtagactc

138 ctggcgcaagctgtgtgggggtgccttgaaactaagaatagggggggcgccggttgaattatgtgcacgtccacgcacgaagcgctgtggtccacagacacatctaatctgggaagtcctggccacaggaatgacgtcacacaggaatgacgttaattgt

163 cggcgaggtgtttacgcgtgtttaggttaac-----cagcgttgatggcgggggctc-----acgcacatagttaagcggcgcaaaa-ccttca-cgggaagttaac-atgacgggaagtccagtgcccggaac-cagctggcagctaa-----gcacggga

308 cgggcacatttat-accggaattccgcgtaccggpmt-----gacacag-----ggacat-----gtattgggtgcctcttttaa-----atttt-----

300 cgggaactcgtccacggatagtgggtc-accggaagaatgtagcgggaactgtggtactctccctccctcggtggtgttgcgaagaaacgaacacctccatagacacacaggaacaaagatattttggcgcggaagtg

FIG. 4A

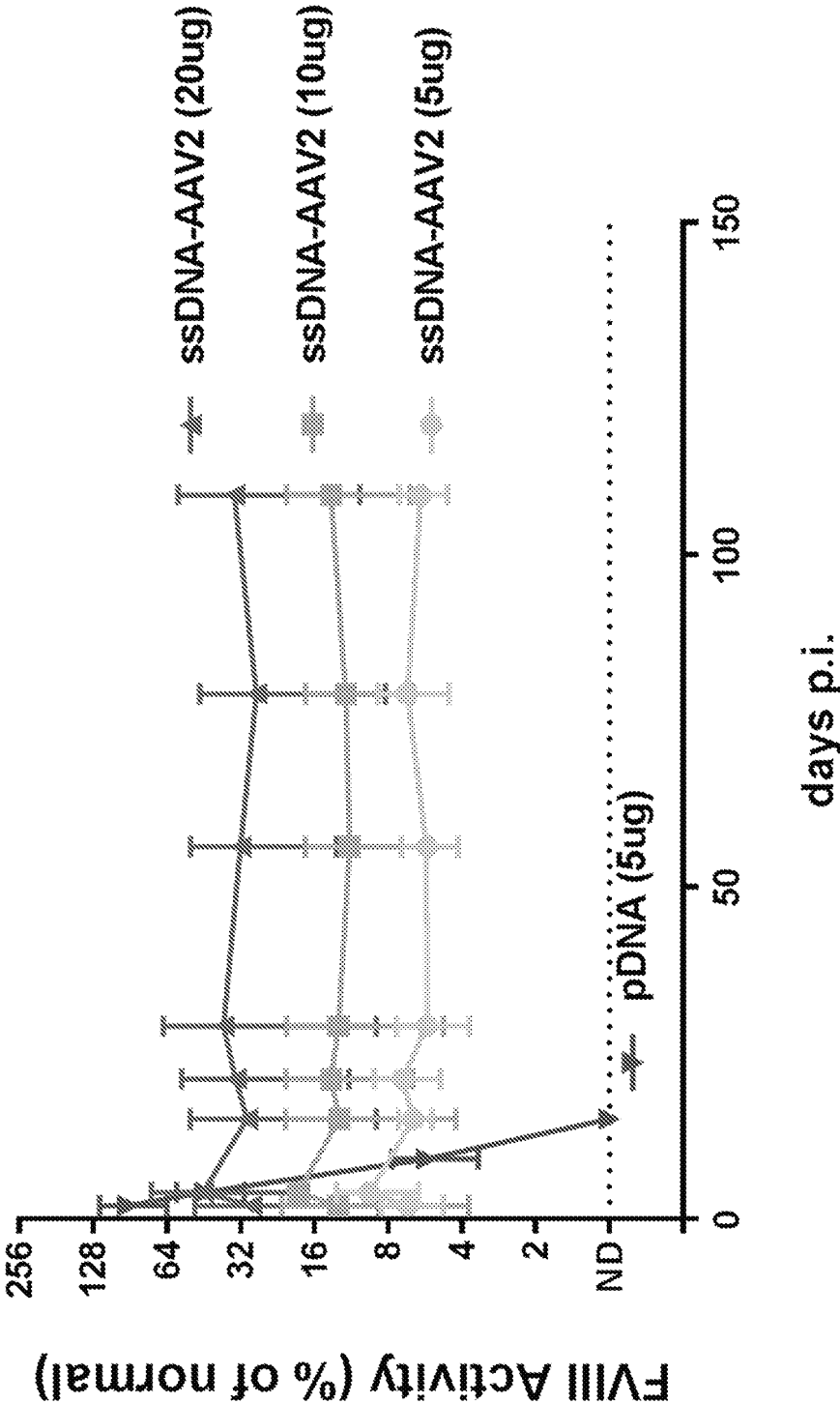


FIG. 4C

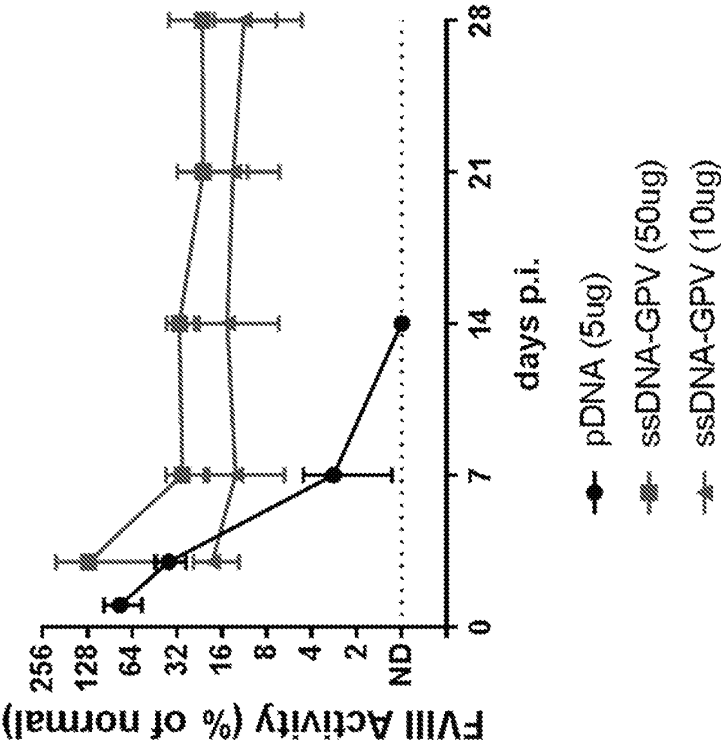


FIG. 4B

