

FIG. 1A

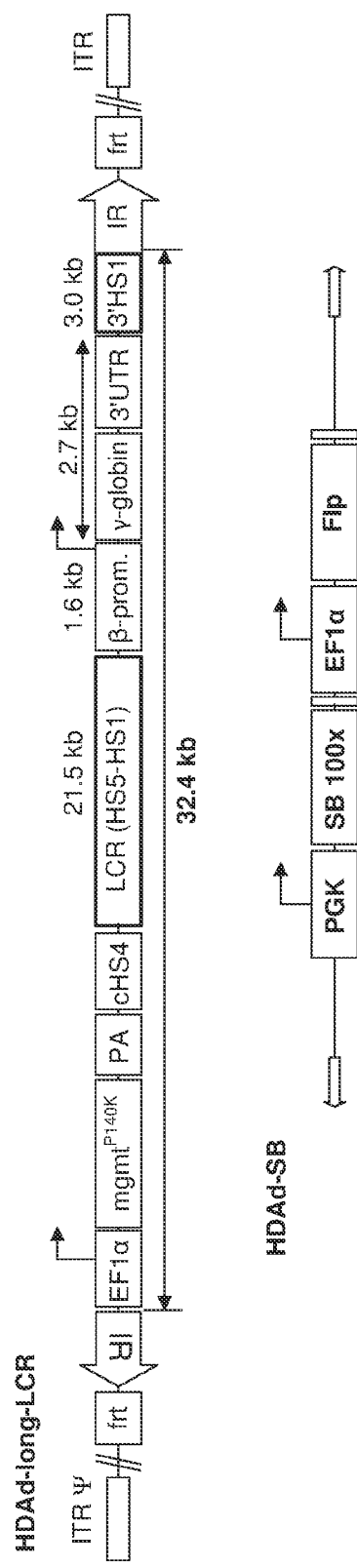


FIG. 1B

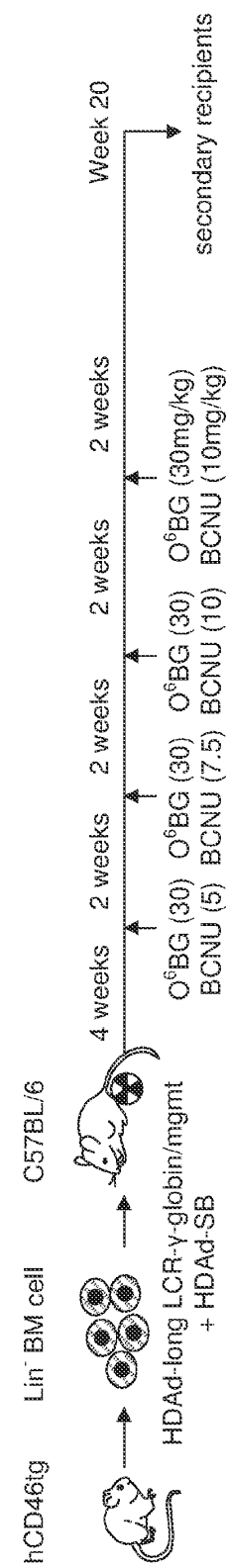


FIG. 1D

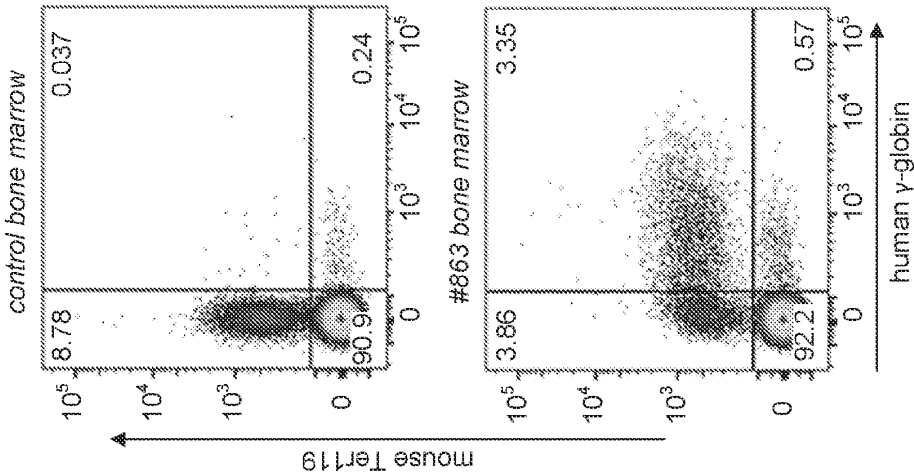


FIG. 1C

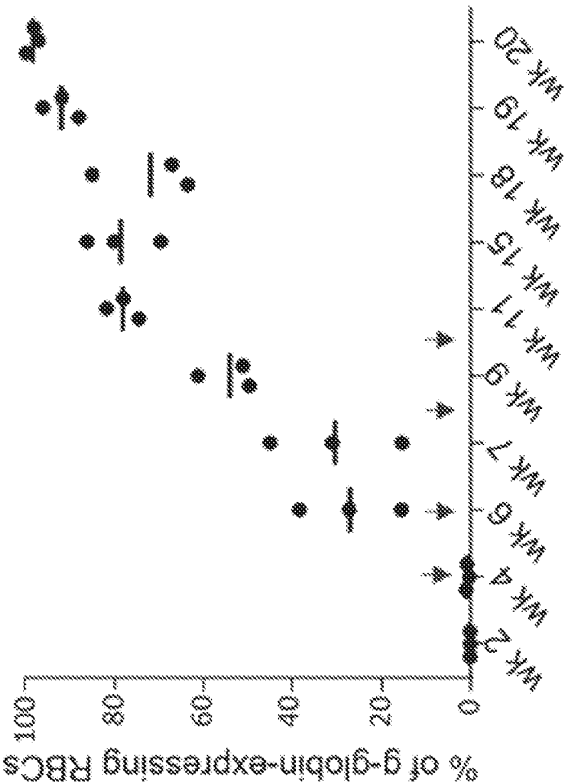


FIG. 2A

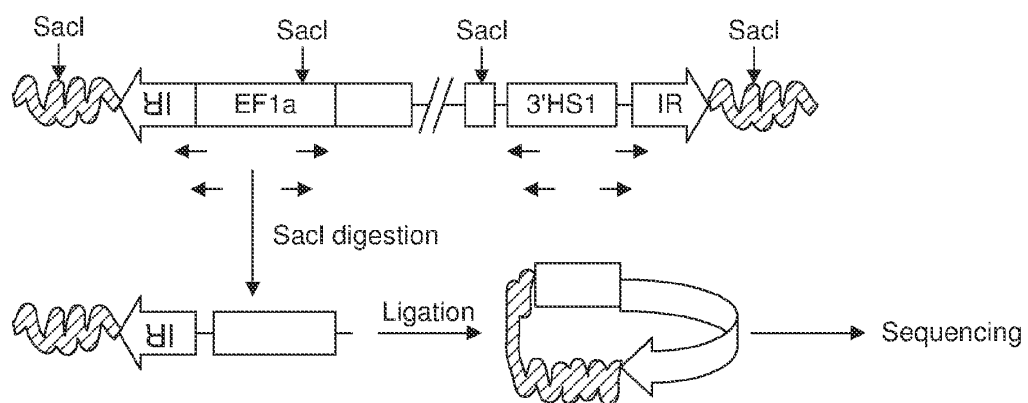
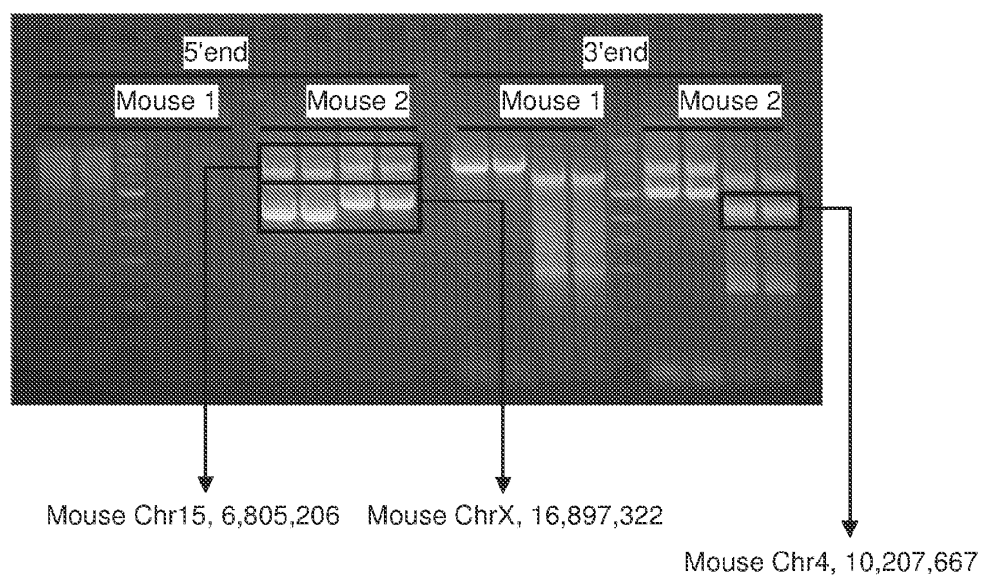


FIG. 2B



CCCTGGGATCCCCAAGGCAGGGCGAGTCCTTTTGTATGAATTACTCAAATCGATAAAGTAACTAGAAAATTAATTAACAACGA GATCTTATAAATTTGCATACCTTCGCCGTGCTGGGACCTCCACACCTAGCTGACACAAGAAATTTGAAATACATCCACAG GTACACCTCCAAATTTGACTCAAATGATGTCAATTAGTCTATCATATAATCTTCTAAAGCCATGACATCAATTTAACTGGAATTT TTCCAAGCTGTTTAAAGGCACAGTCAACCTTAGIGTATGTAACTTCTGACCCACCTGGAATTTGIGATACAGTGAATTAATAA GTGAAATAATCTGTCTGTAAACAATTTGTTGGAAAAATGACTTGTGTCATGACACAAAGTAGATGCTTAACCTGACTTGCCCA AAACTATGTTTGTAAACAAGAAATTTGTTGGAGTAGTTGAAAAACGAGTTTAAATGACTCCAACTTAAAGTGAATGAAAC TTCCGACTTCAACCTGTTA]AGAATGGCCCATTCATCTATAGTAGCACACAATATTTGCAATTTGTGCGACAGTATAAGGGACA ATTATGCTATCAGGCATTTTCCAAAGTGAGTAATCGAAGTTTATACCTTTGTGTGCCATGTTTGTCTACCATGGTGGG ATAATCTTACACGGCTTCTCCGACCGCCAGGAAGACGCAACAACCGGAATCTTCTGCGGCAAAAGCTTTATTGCTT (SEQ ID NO: 1)	5' end vector sequence <u>Sleeping beauty</u> <u>IR/DR sequence</u> <u>Integration junction</u> (chr15, 6805206)
TAGAAACTTAATTAACAACGAGATCTTATAATTTCCATACTTCTGCTGCTGGGACCTTCCACACCCCTAGCTGACACAA GAAATTTGAAATACATCCACAGGTACACCTCCAAATGACTCAAATGATGTCAAATAGTCTATCATATAATCTTCTAAAGCCAT GACATCAATTTAACTGGAATTTCCAAAGCTGTTTAAAGGCACAGTCAACCTTAGIGTATGTAACTTCTGACCCACCTGGA TTGIGATACAGTGAATTAATAGTGAATAATCTGCTGTAAACAATTTGTTGGAAAAATGACTTGTGTCATGACACAAAGTA GATGCTTAACCTGACTTGCCTAAACCTATTTGTTTAAACAAGAAATTTGTTGGAGTAGTTGAAAAACGAGTTTAAATGACT CCAACTTAAAGTGAATGTAACCTTCCGACTTCAACCTGTTA]CAAGTAGACCAATATCCATATACATAAAGAAATAAATAGA AAAAATTTCTAGTGACAGAAAAATGACAAAGAACAATGCTGTTTATTACTACTATTAAAGATGTTTGTCTCCATTACACTC ATATGAGTCATGATATTTTCTTCTCATTTTCTTCTANTNCACTNGAAAT (SEQ ID NO: 2)	5' end vector sequence <u>Sleeping beauty</u> <u>IR/DR sequence</u> <u>Integration junction</u> (chrX, 16897322)
GTTGCTAGGAATGAGCCAAATTCATCTGTATTAACAGTGGGAGCTTGTGGAAGGCTACTCGAAATGTTTGACCCCAAGTT AAACAAATTAAGGCAATGCTACCAAAATACTAATTGAGTGTATGTTAACTTCTGACCCACTGGGAATGTGATGAAAGAAA TAAAGCTGAAAATGAATCATCTCTACATATTTCTGATAATTCACATCTTAAAAATAAAGTGGTGAATCTTAACCTGAC CTTAAGACAGGGAATCTTTACTCGGATTAATGTCAGGAATTTGAAAAAGTGAGTTTAAATGTATTTGGCTAAGGTGTA TGTAACCTTCCGACTTCAACCTGTTA]TATCCTCCCGTTGCACCTCTTGTATGATGCTGAGATGAACACAGATGCTCACTCC TTGAGGGTCTAAGCTTATGCTGACACAGACACAGGTGCTCACTTCTATGAATGCCCTAAGATTTGAGGACATCATGAGG ACAAGTGTGATAAAAATCTTGGAAACAACCTCCAGAGGTCT (SEQ ID NO: 3)	3' end vector sequence <u>Sleeping beauty</u> <u>IR/DR sequence</u> <u>Integration junction</u> (chr4, 10207667)

FIG. 2C

FIG. 3A

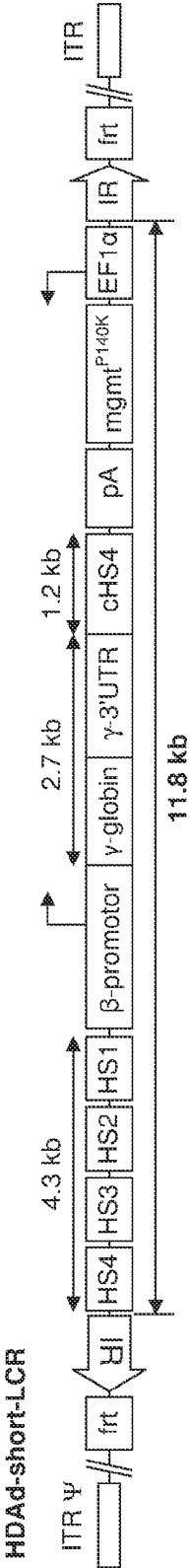


FIG. 3B

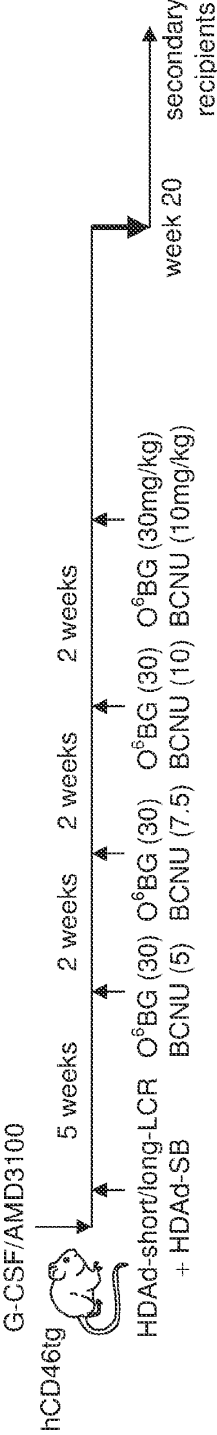


FIG. 3C

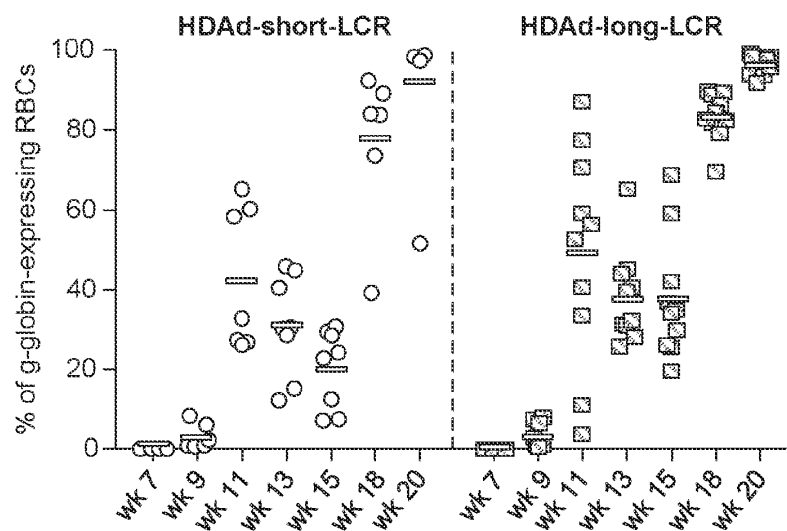


FIG. 3D

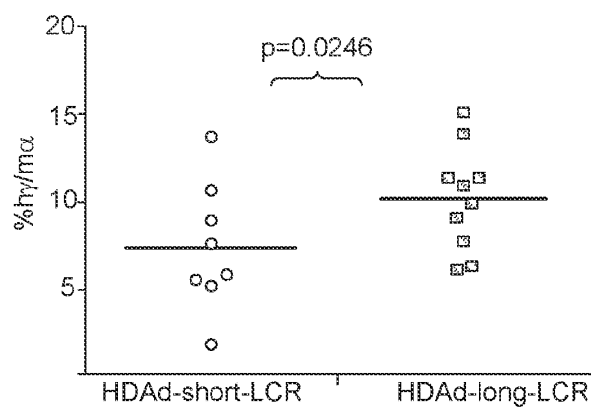


FIG. 3E

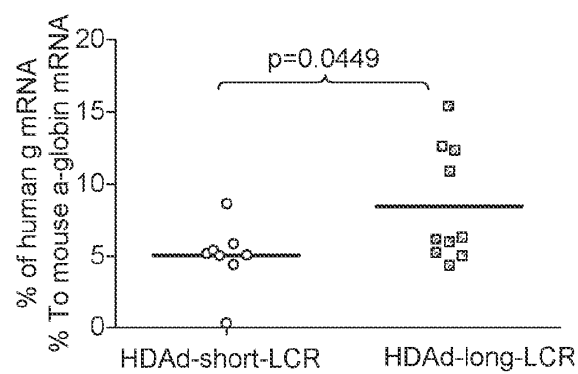


FIG. 4

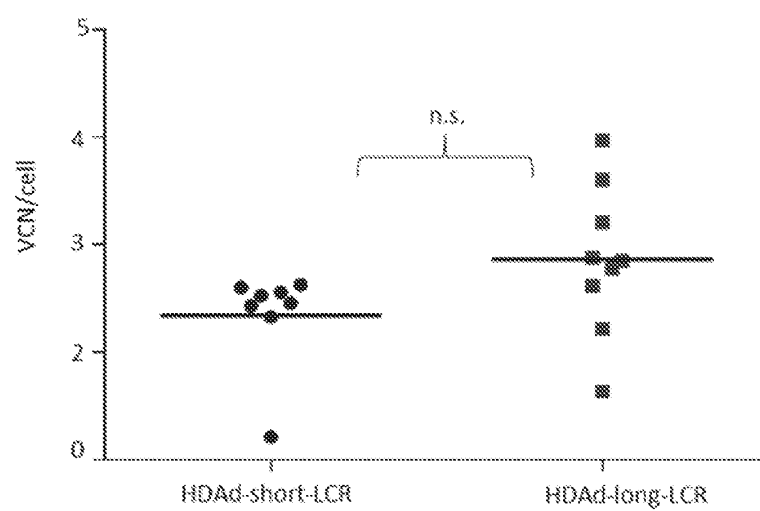


FIG. 5A

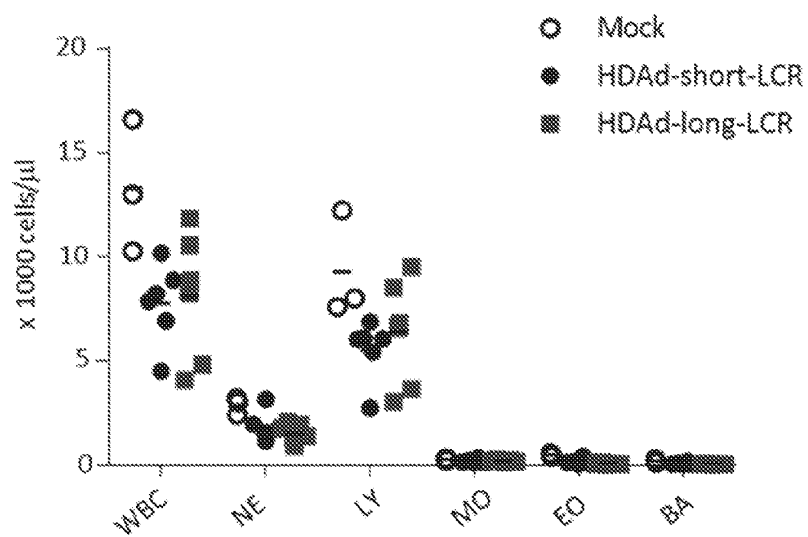


FIG. 5B

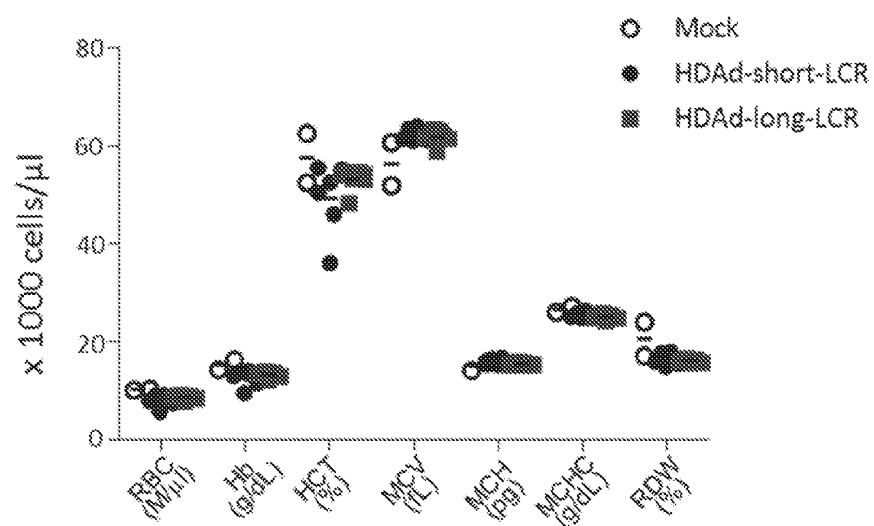


FIG. 5C

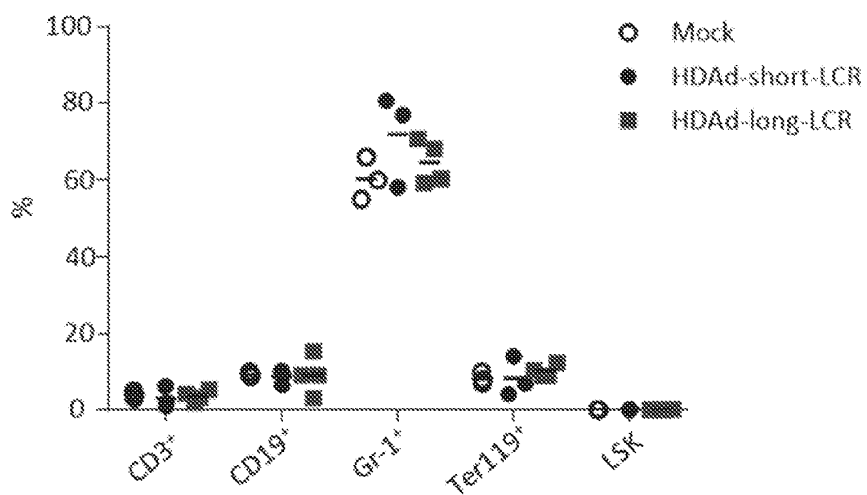


FIG. 5D

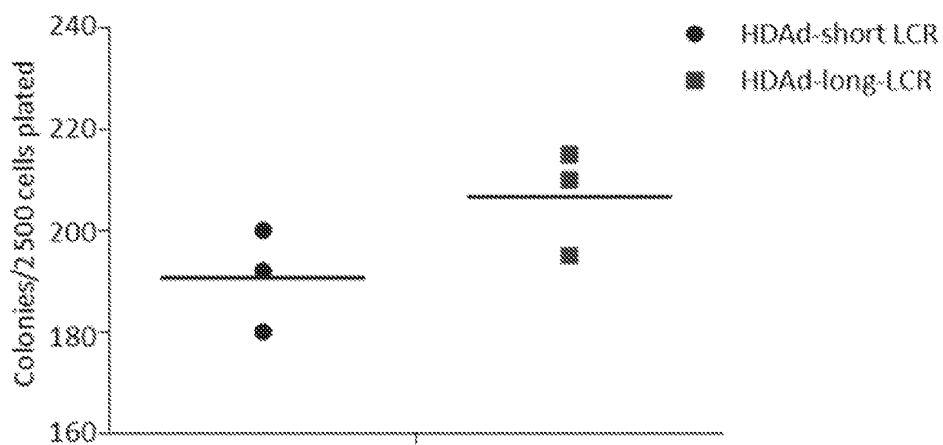


FIG. 6

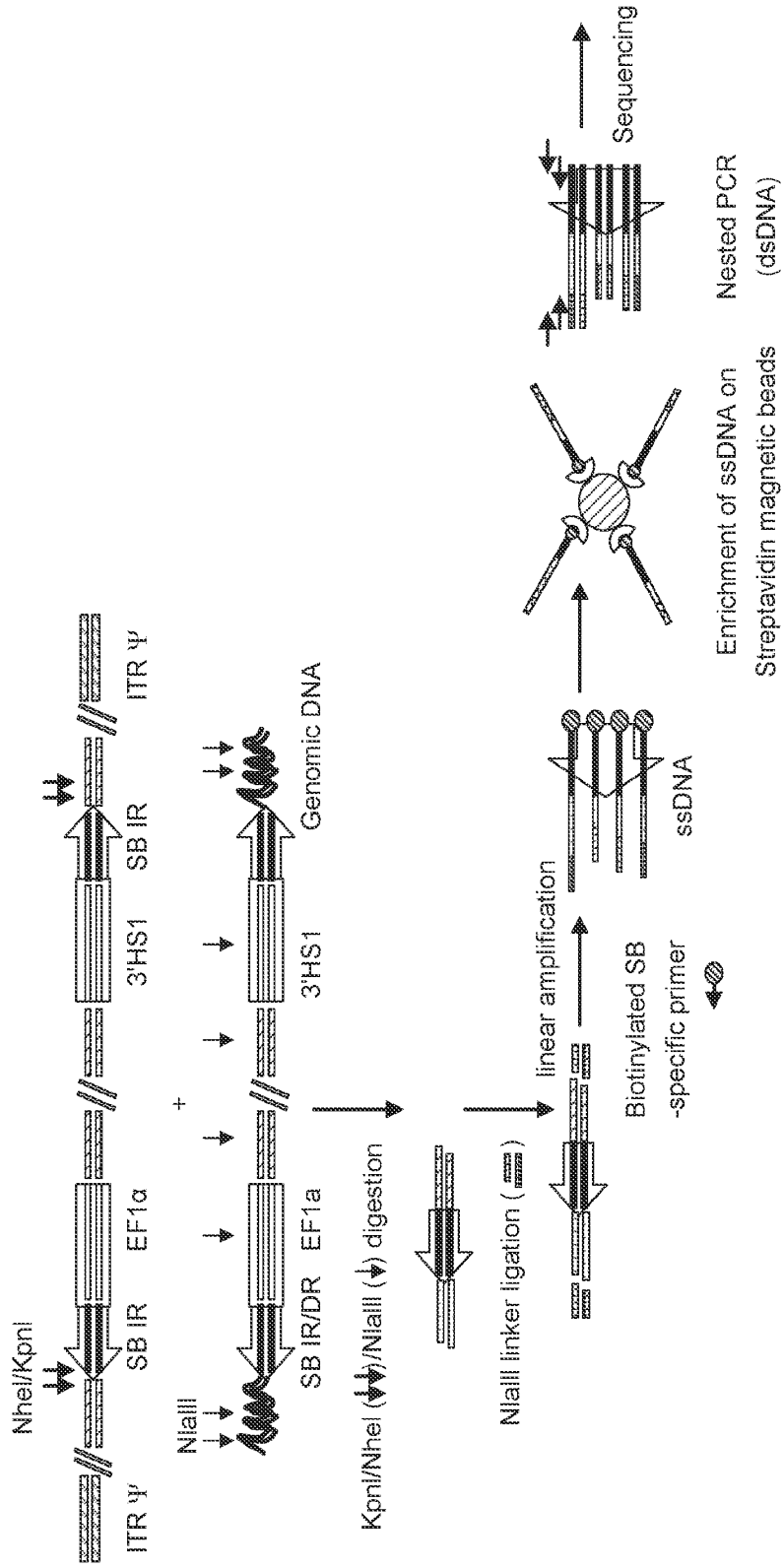


FIG. 7A

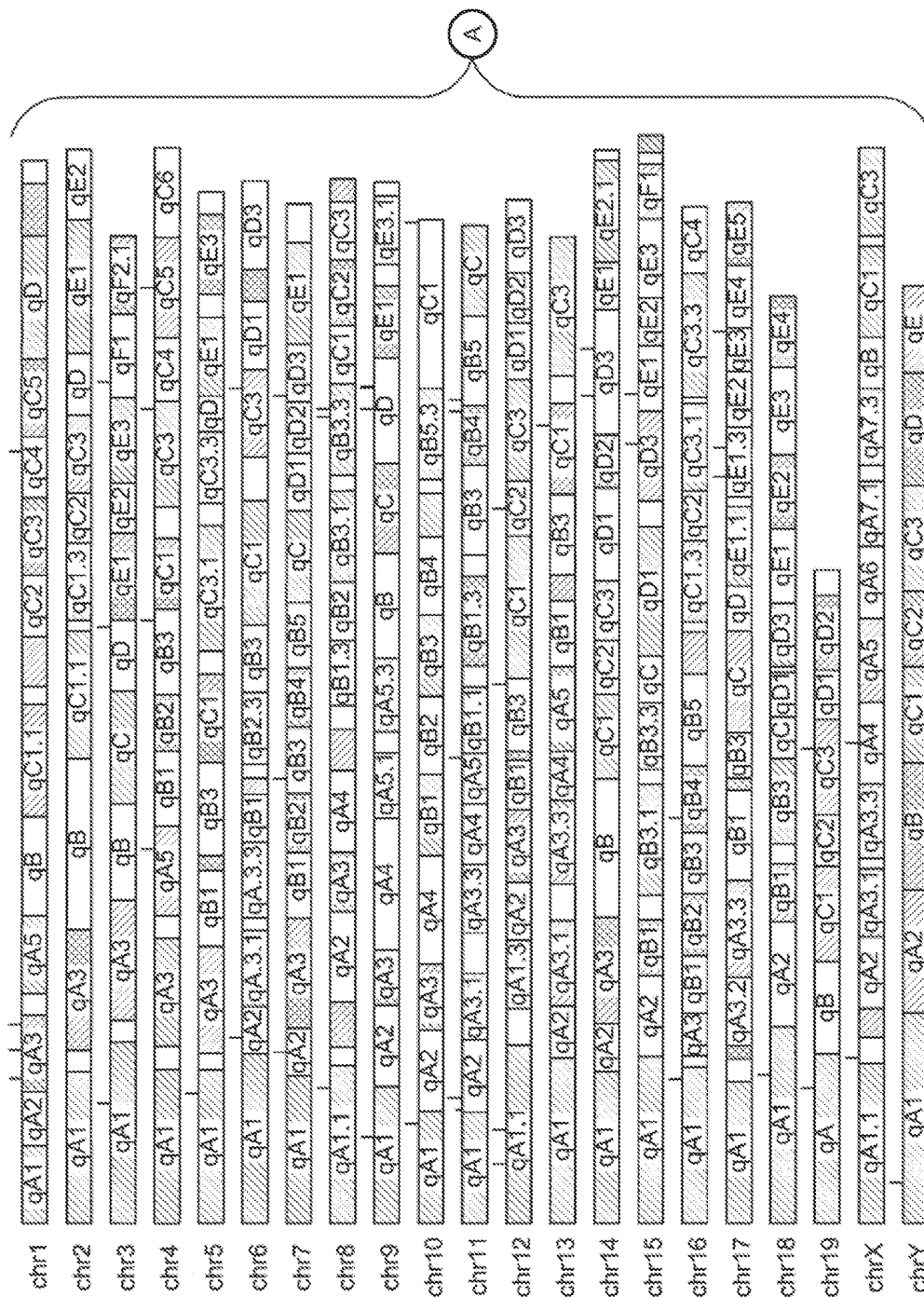
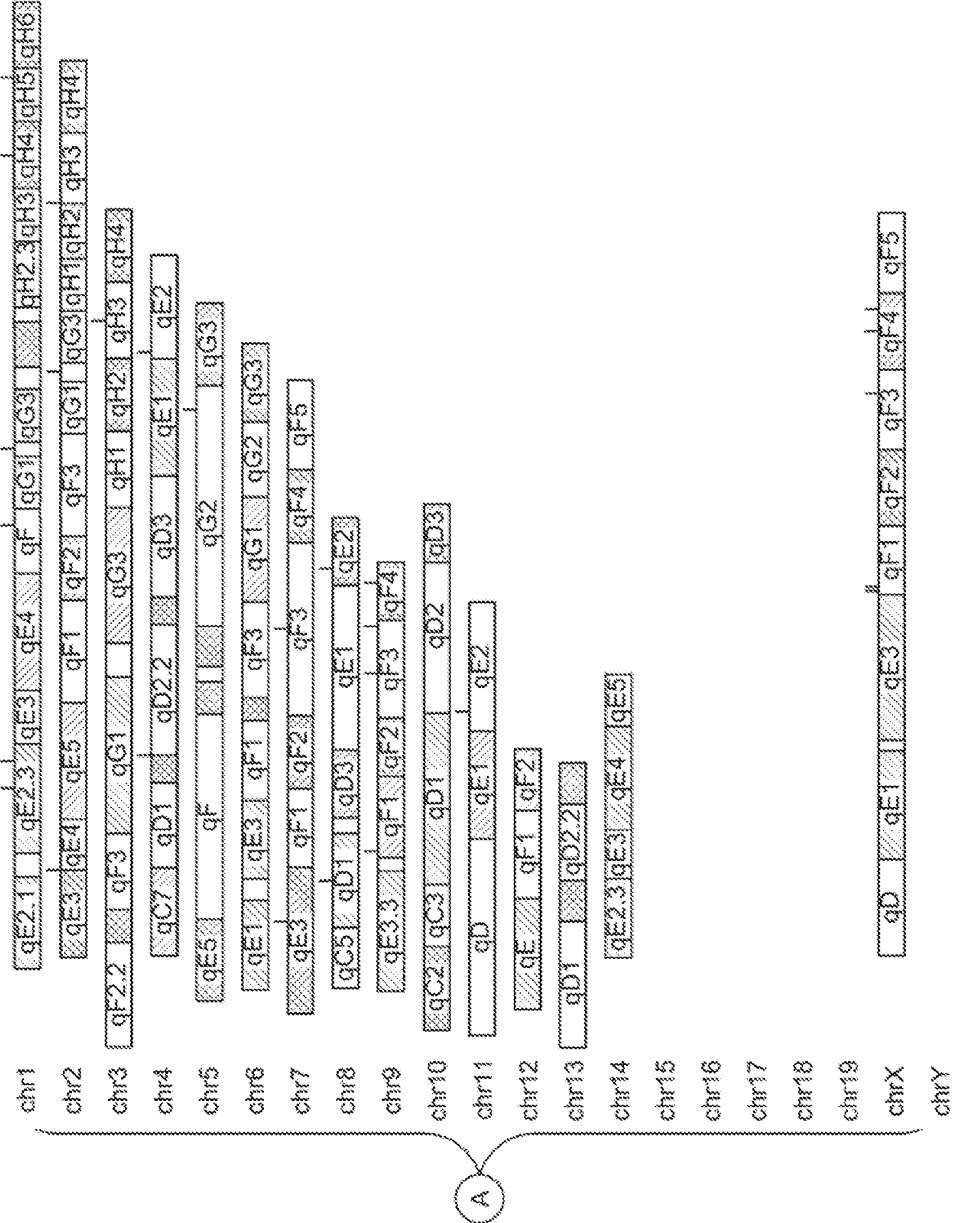


FIG. 7A (continued)



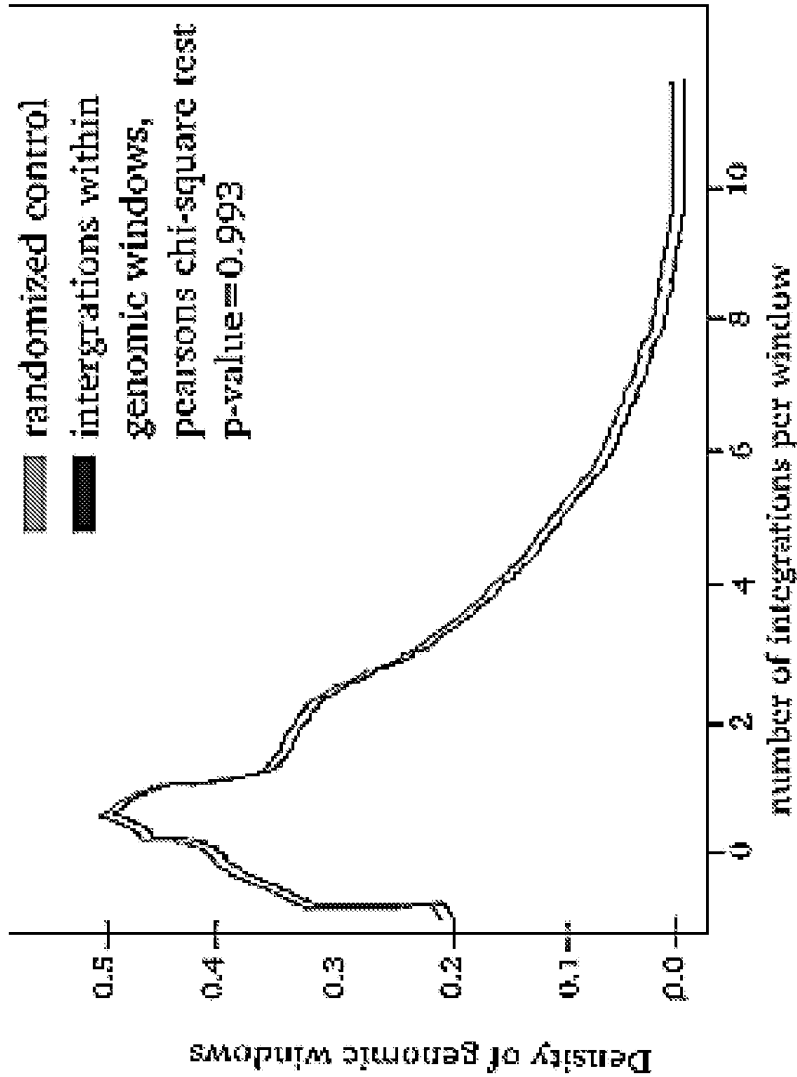


FIG. 8A

FIG. 8B

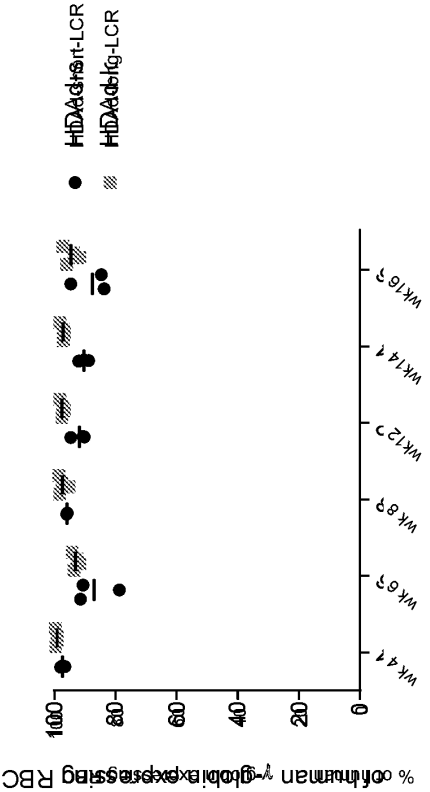
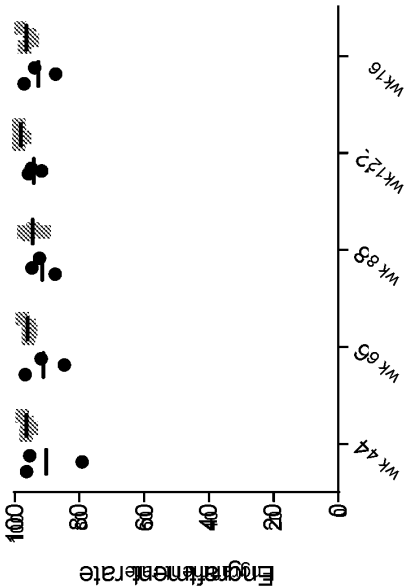


FIG. 8D

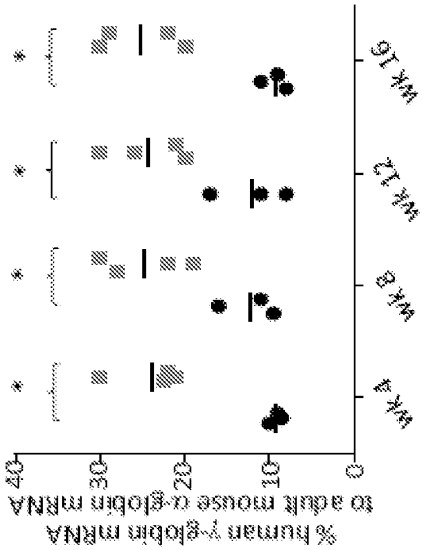


FIG. 8C

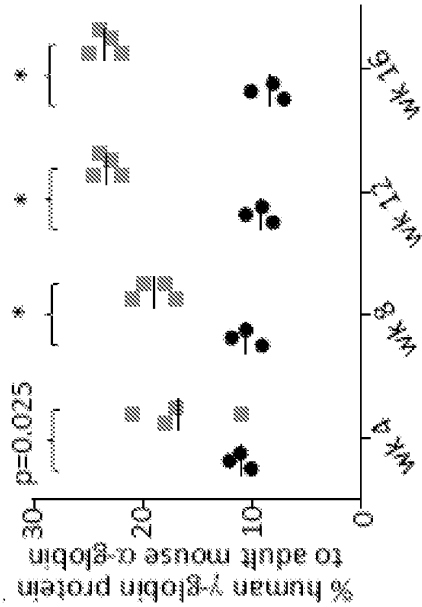


FIG. 8E

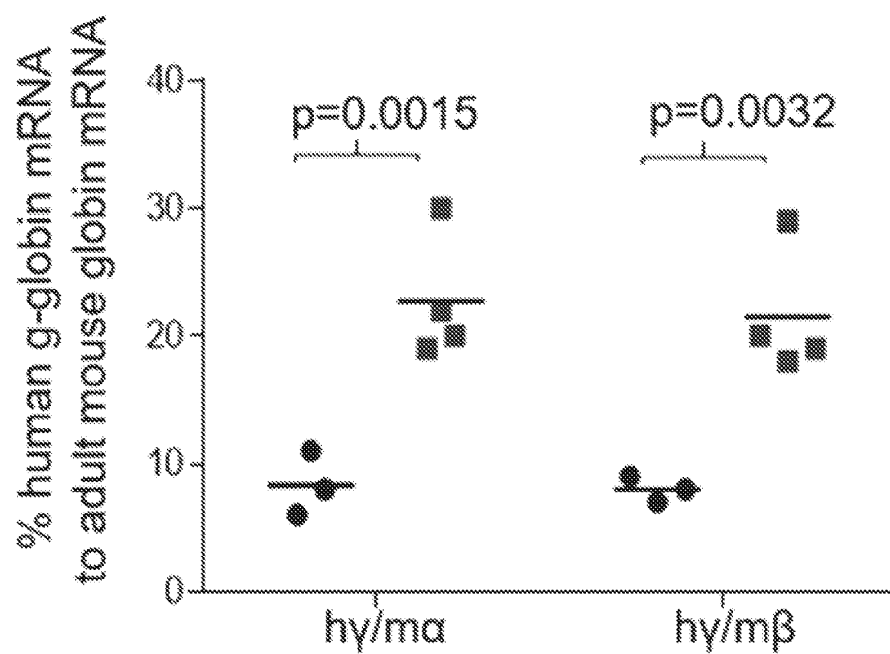


FIG. 9A

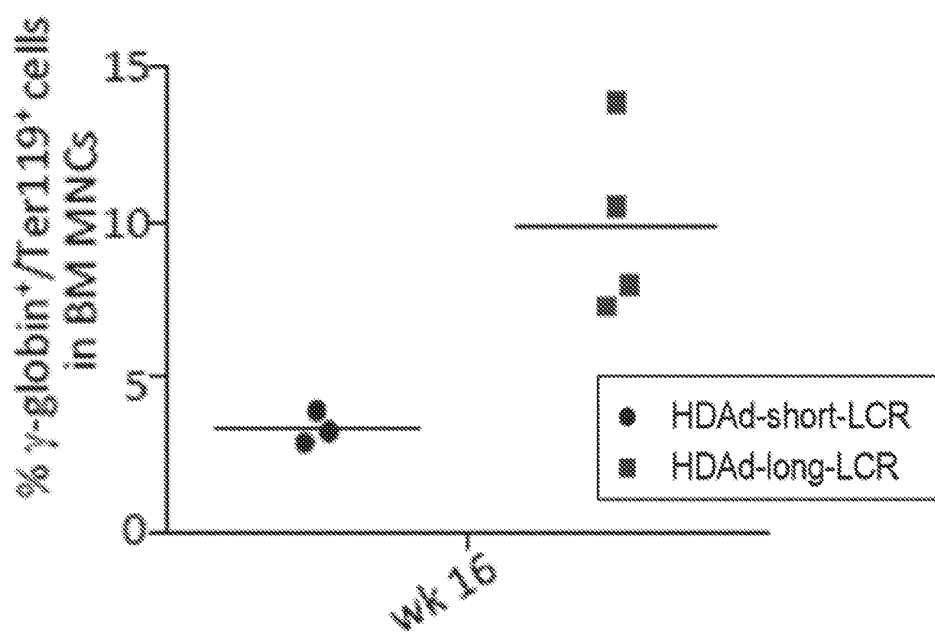


FIG. 9B

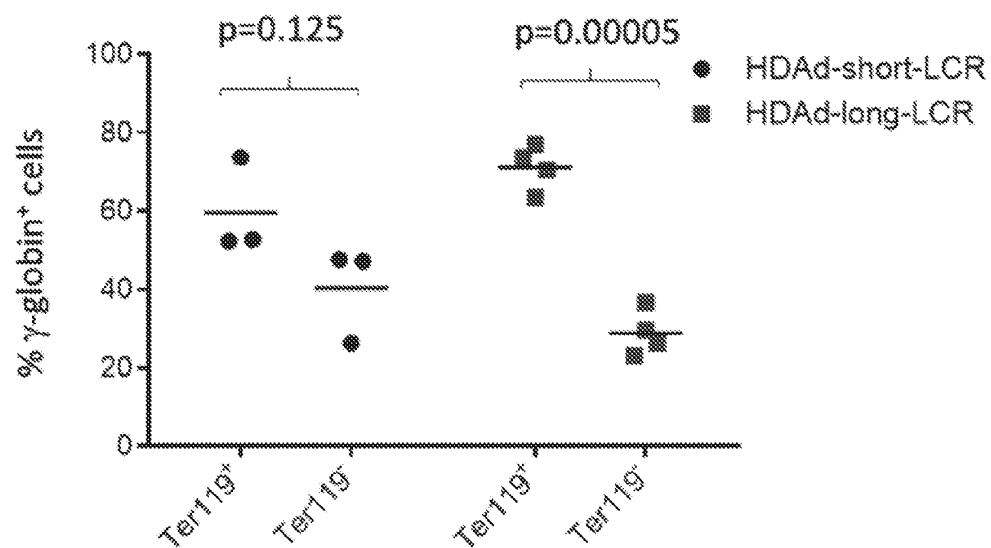


FIG. 9C

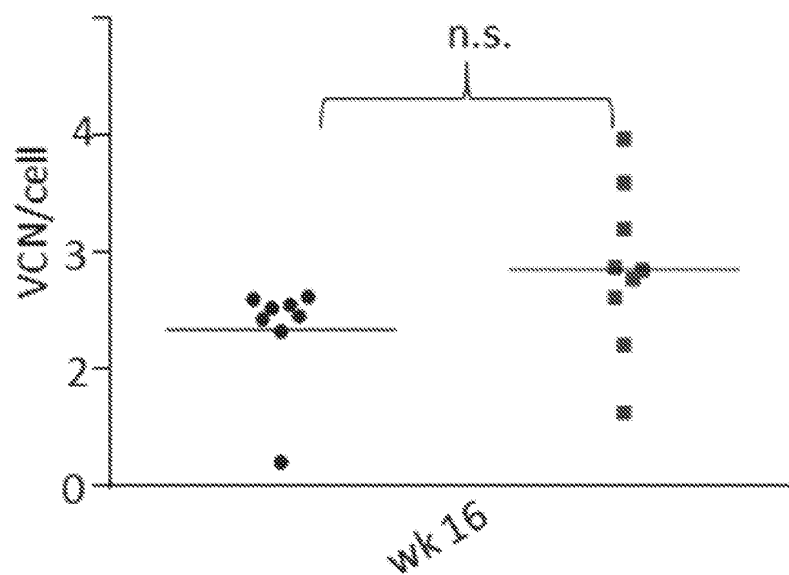


FIG. 10A

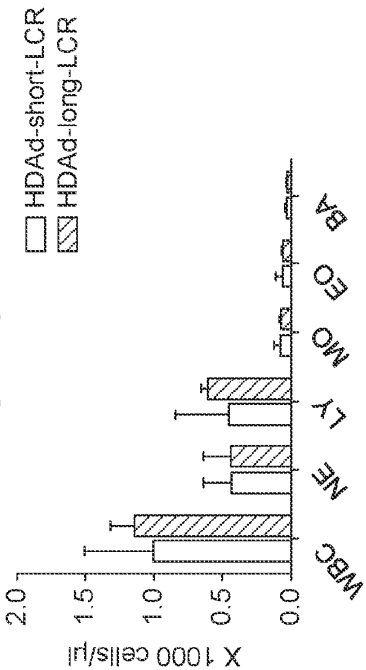


FIG. 10B

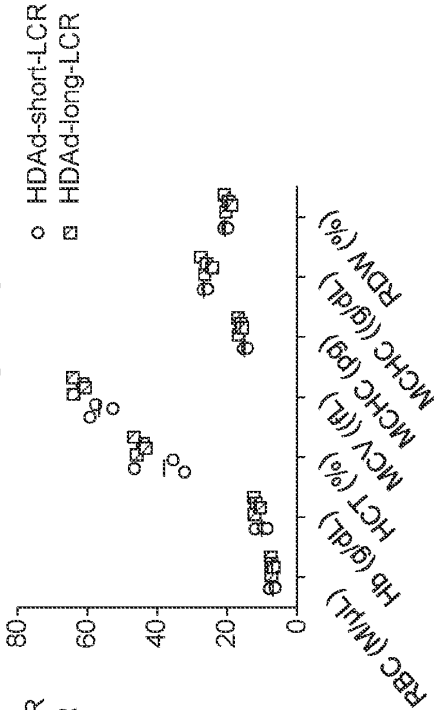


FIG. 10C

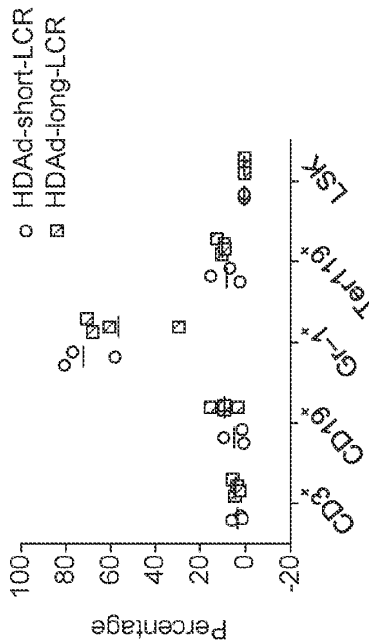


FIG. 10D

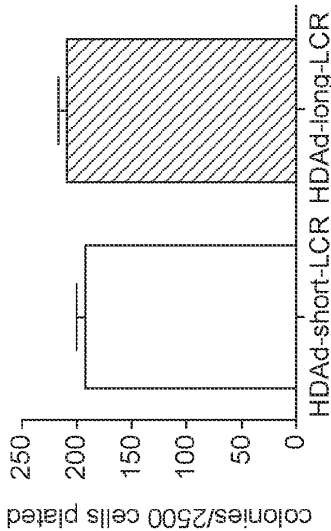


FIG. 11A

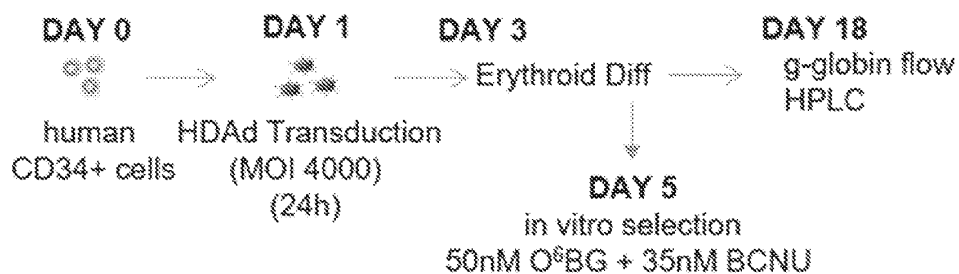


FIG. 11B

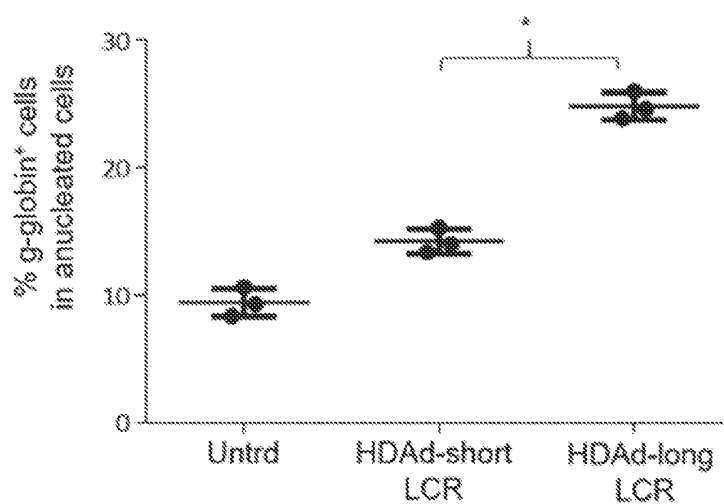


FIG. 11C

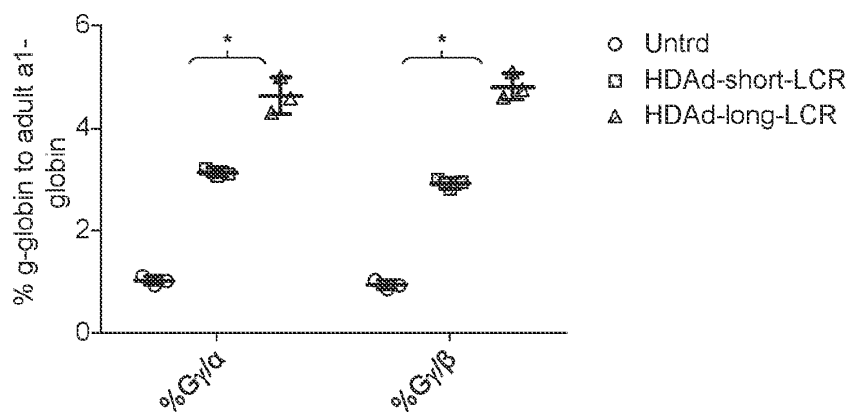


FIG. 12A

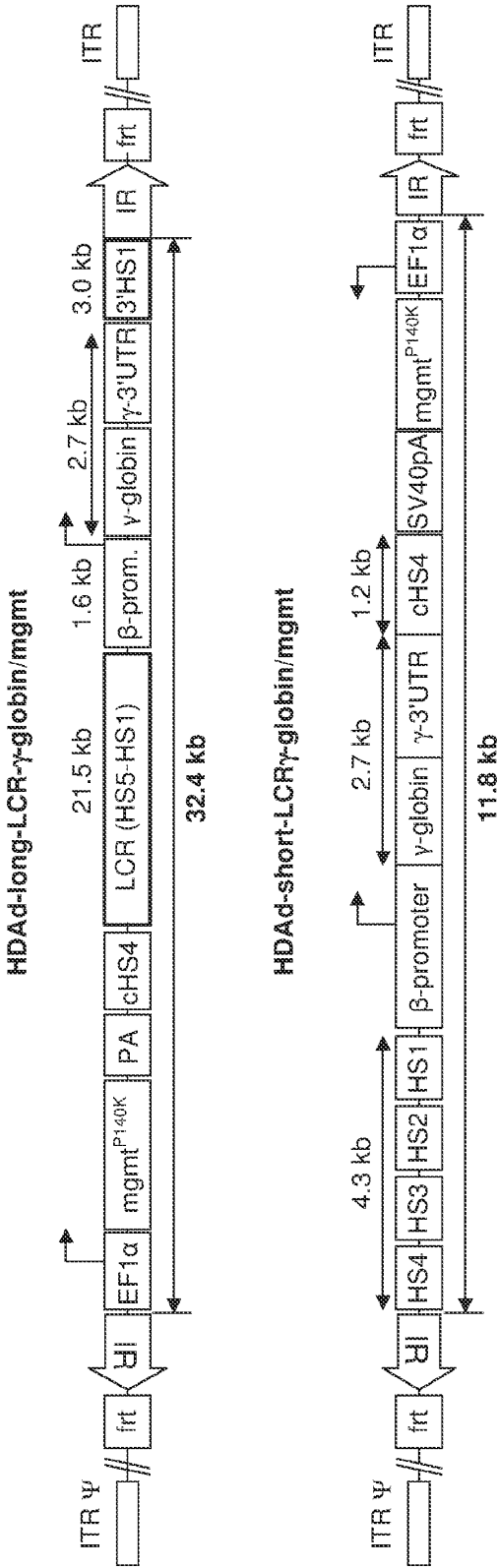


FIG. 12B

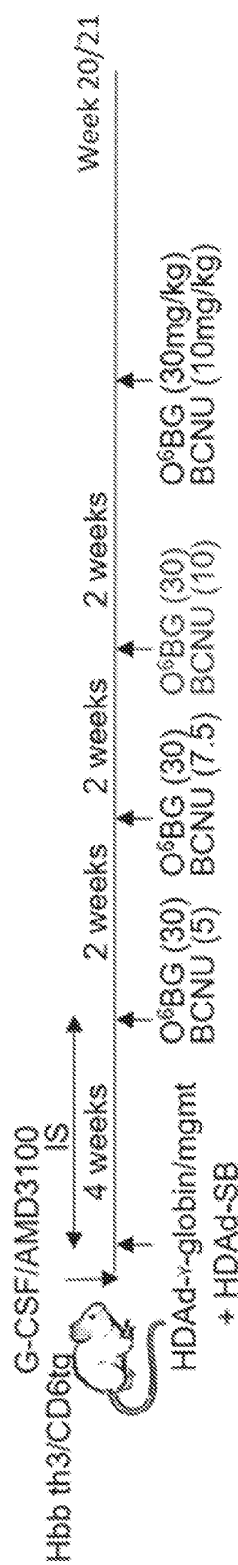


FIG. 13

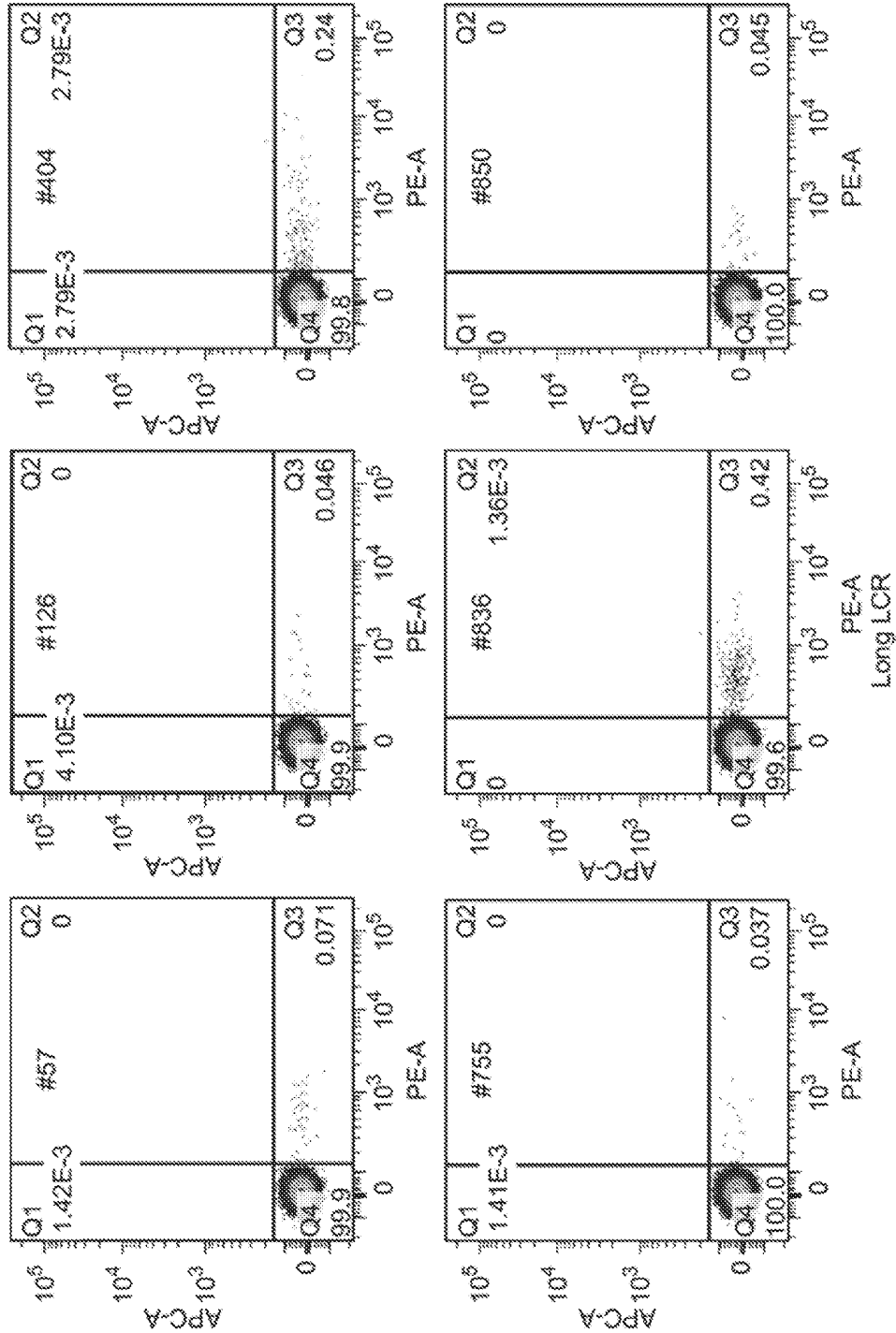


FIG. 13 (continued)

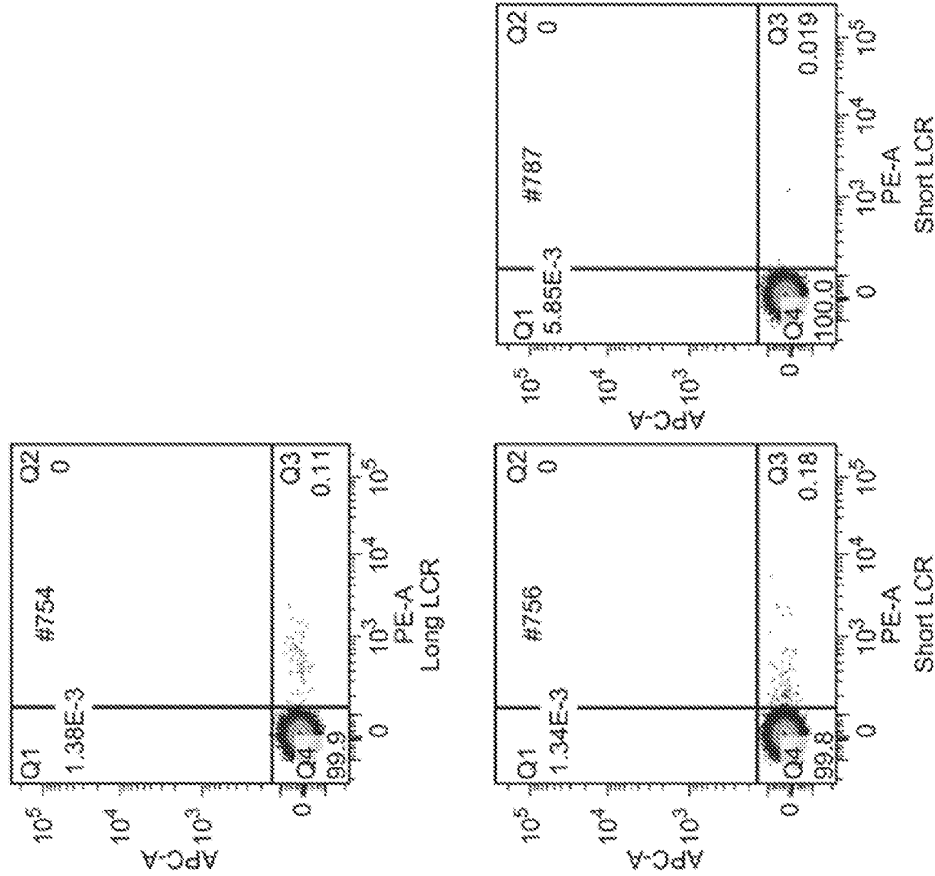


FIG. 14

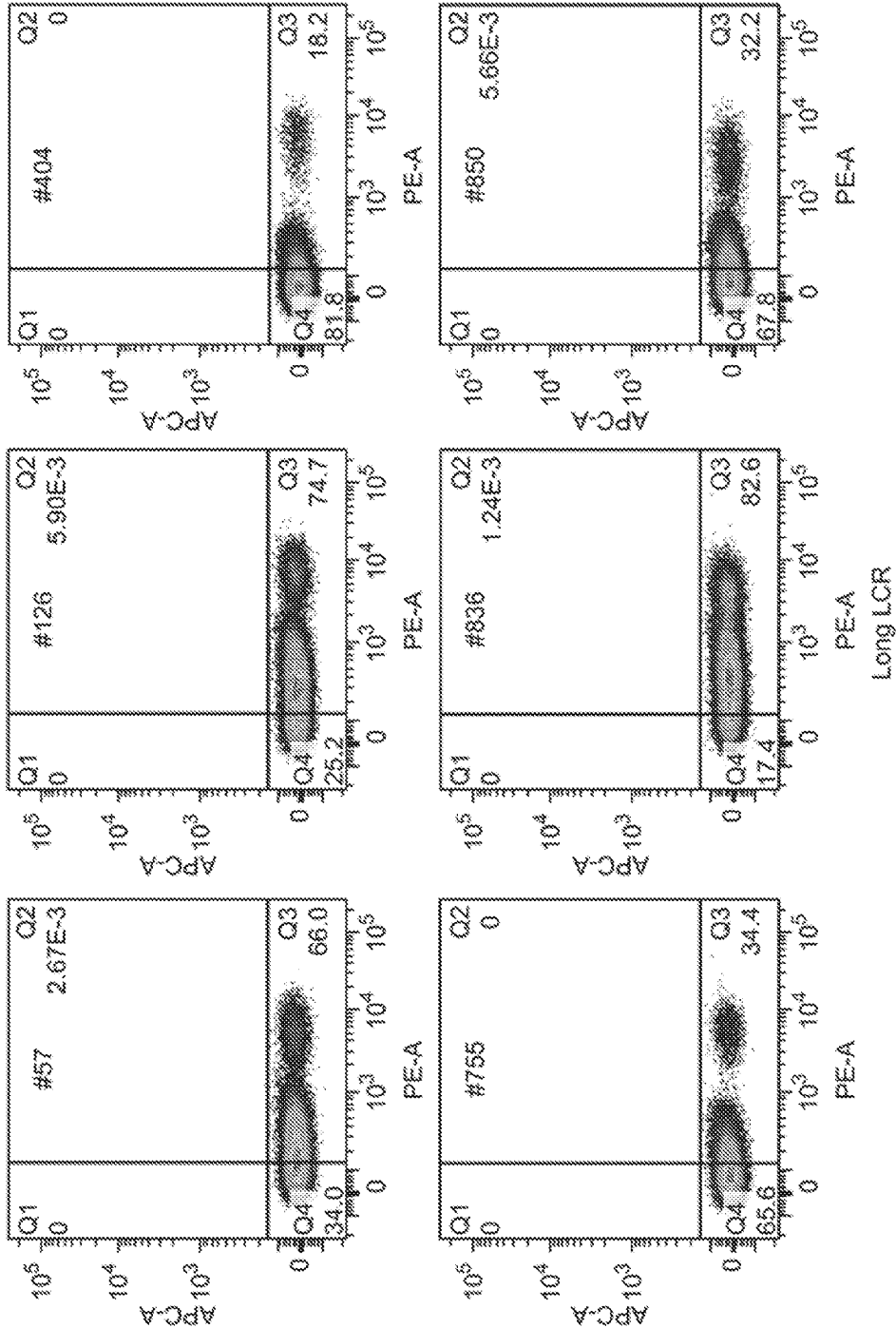


FIG. 14 (continued)

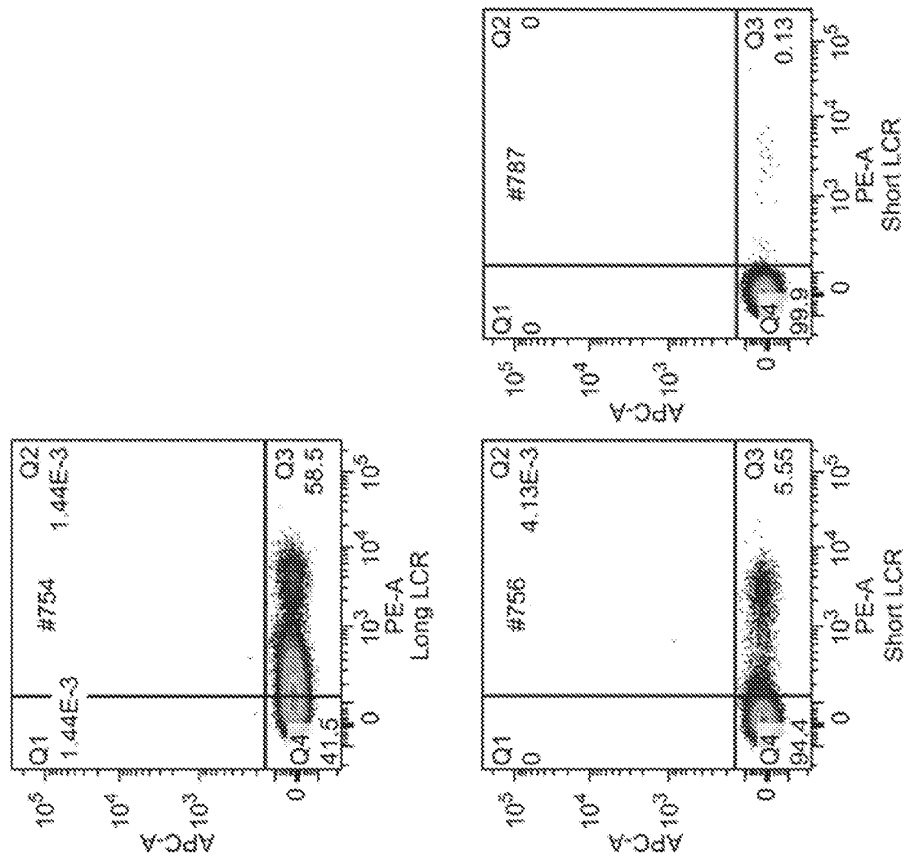


FIG. 15

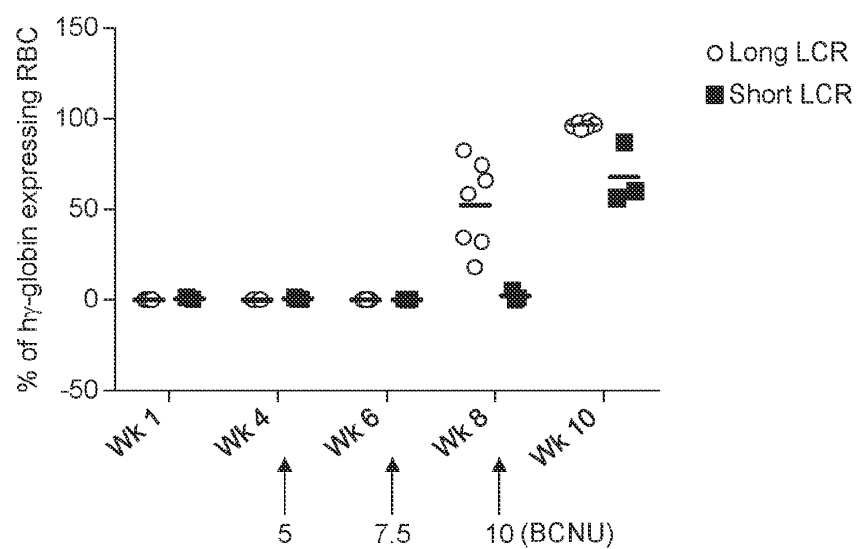
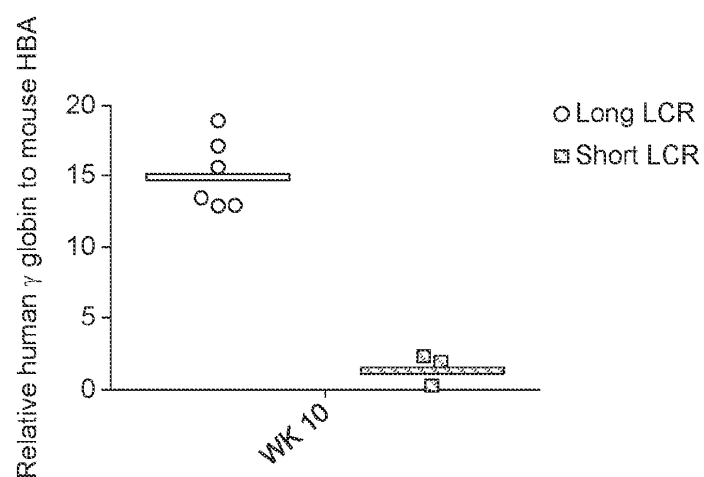


FIG. 16



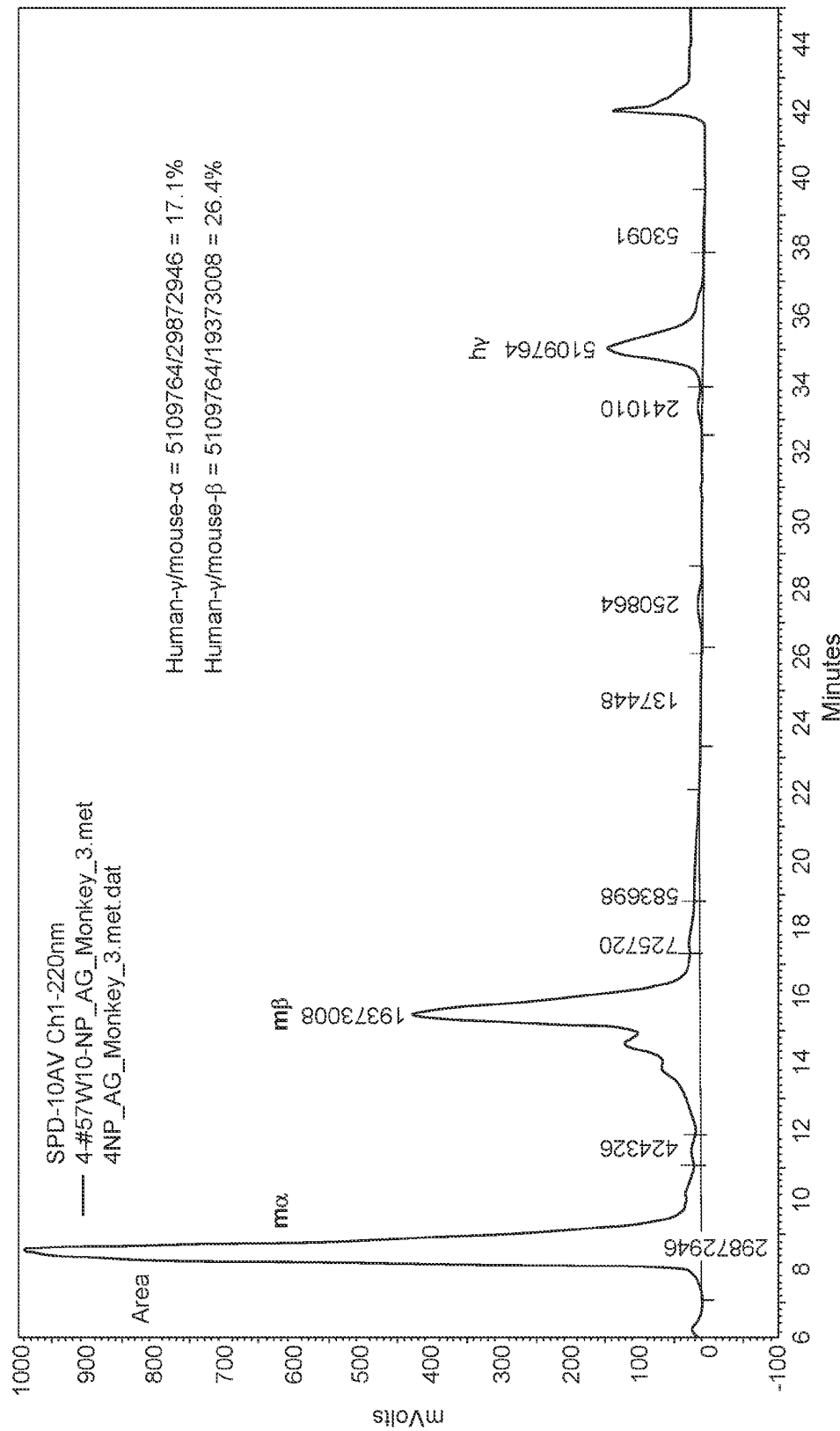


FIG. 17

FIG. 18A

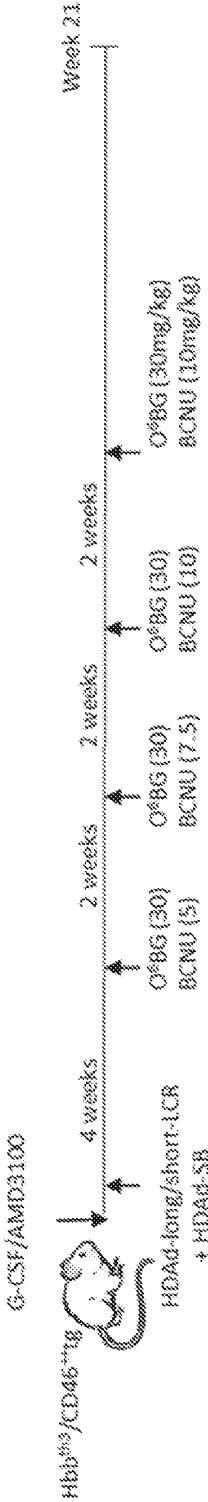


FIG. 18B

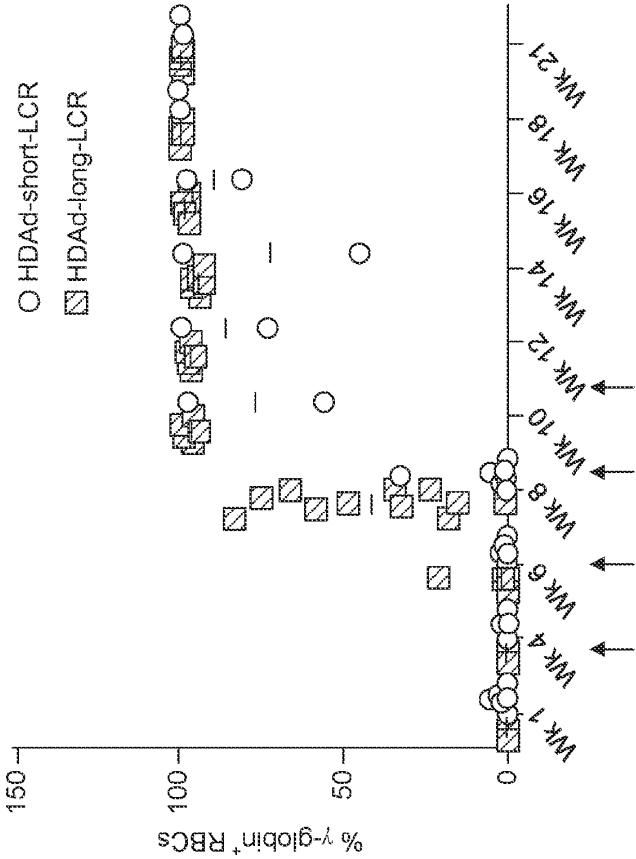


FIG. 18C

FIG. 18D

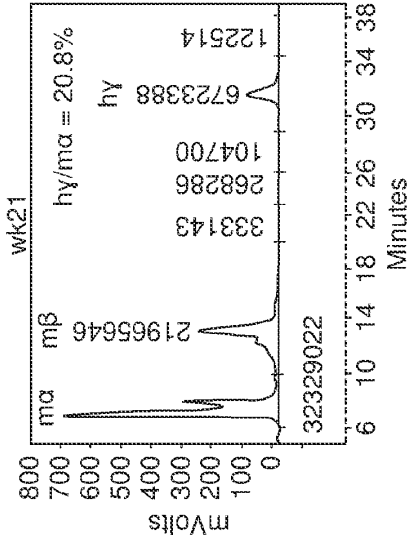


FIG. 19

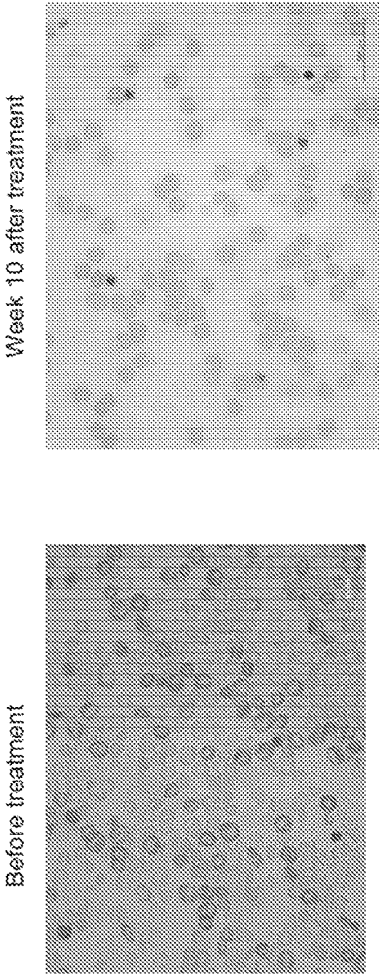


FIG. 20

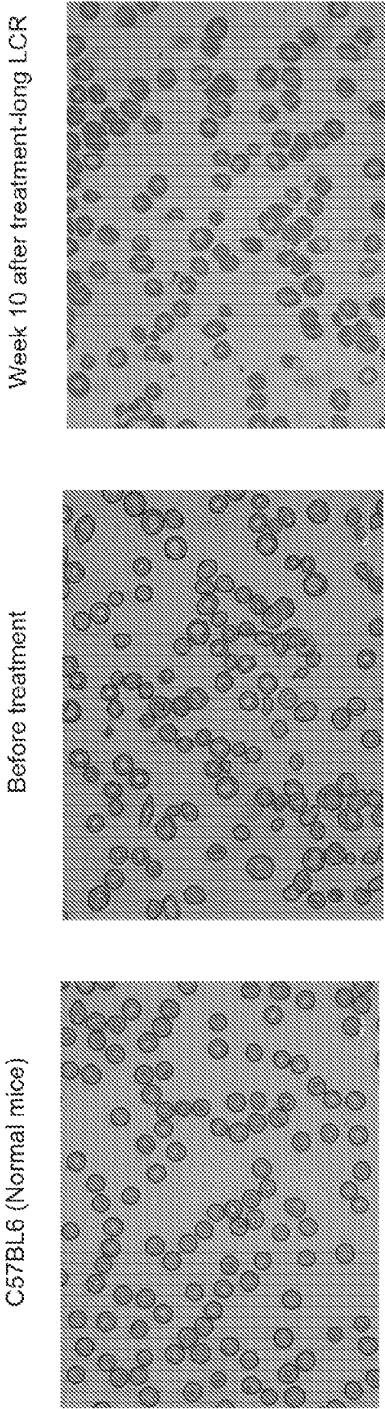


FIG. 21A

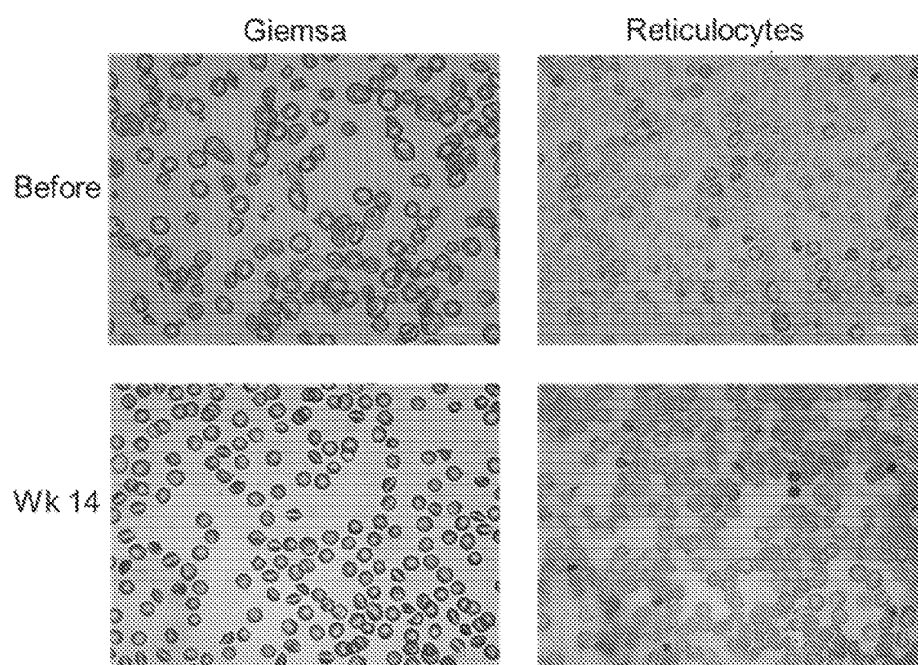


FIG. 21B

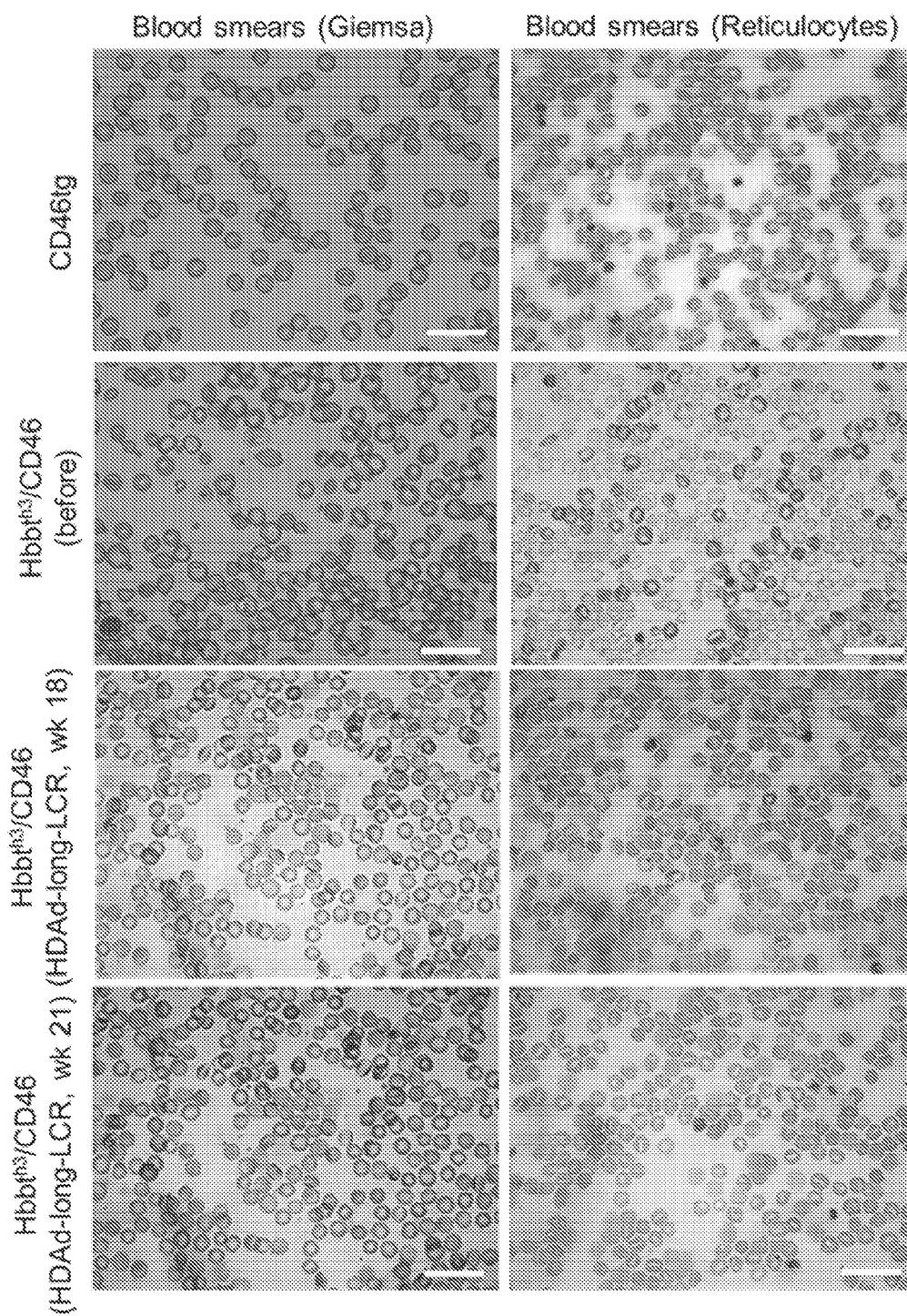


FIG. 21C

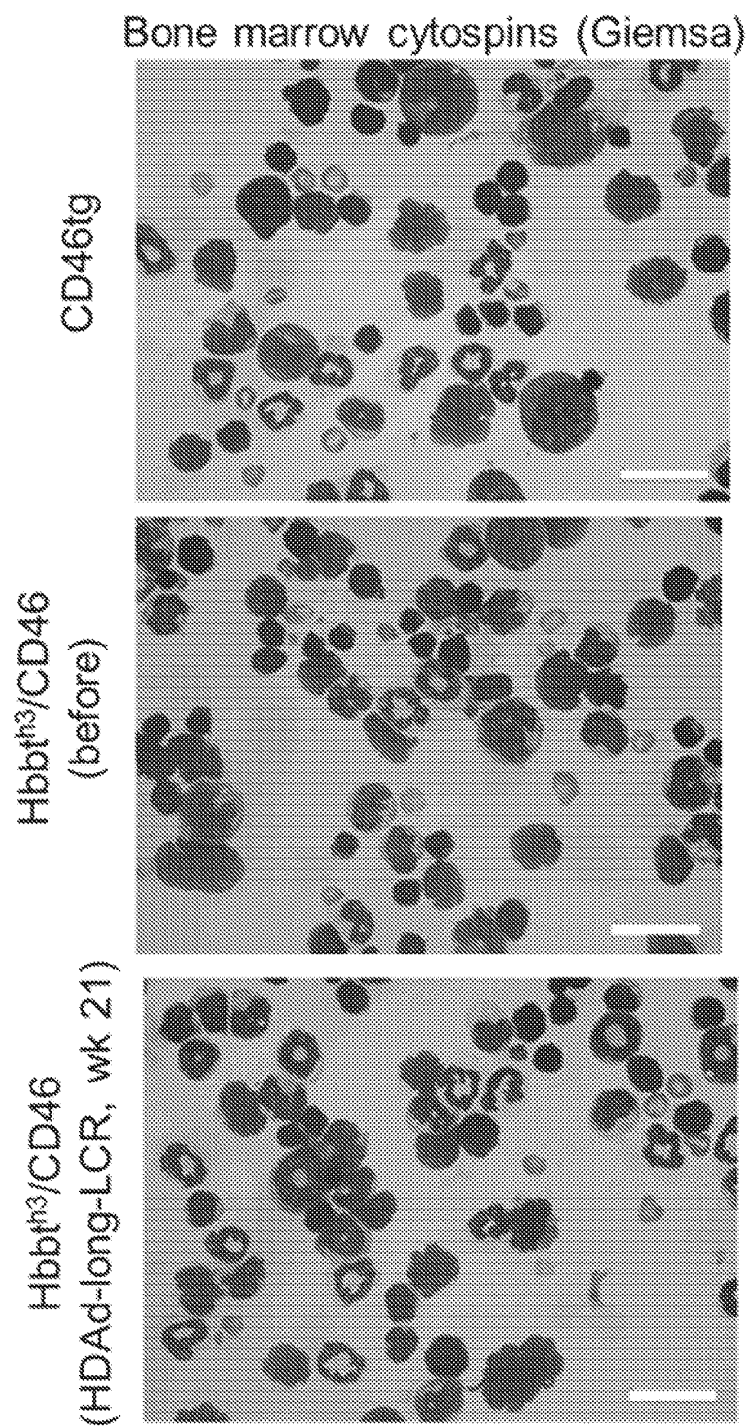


FIG. 22

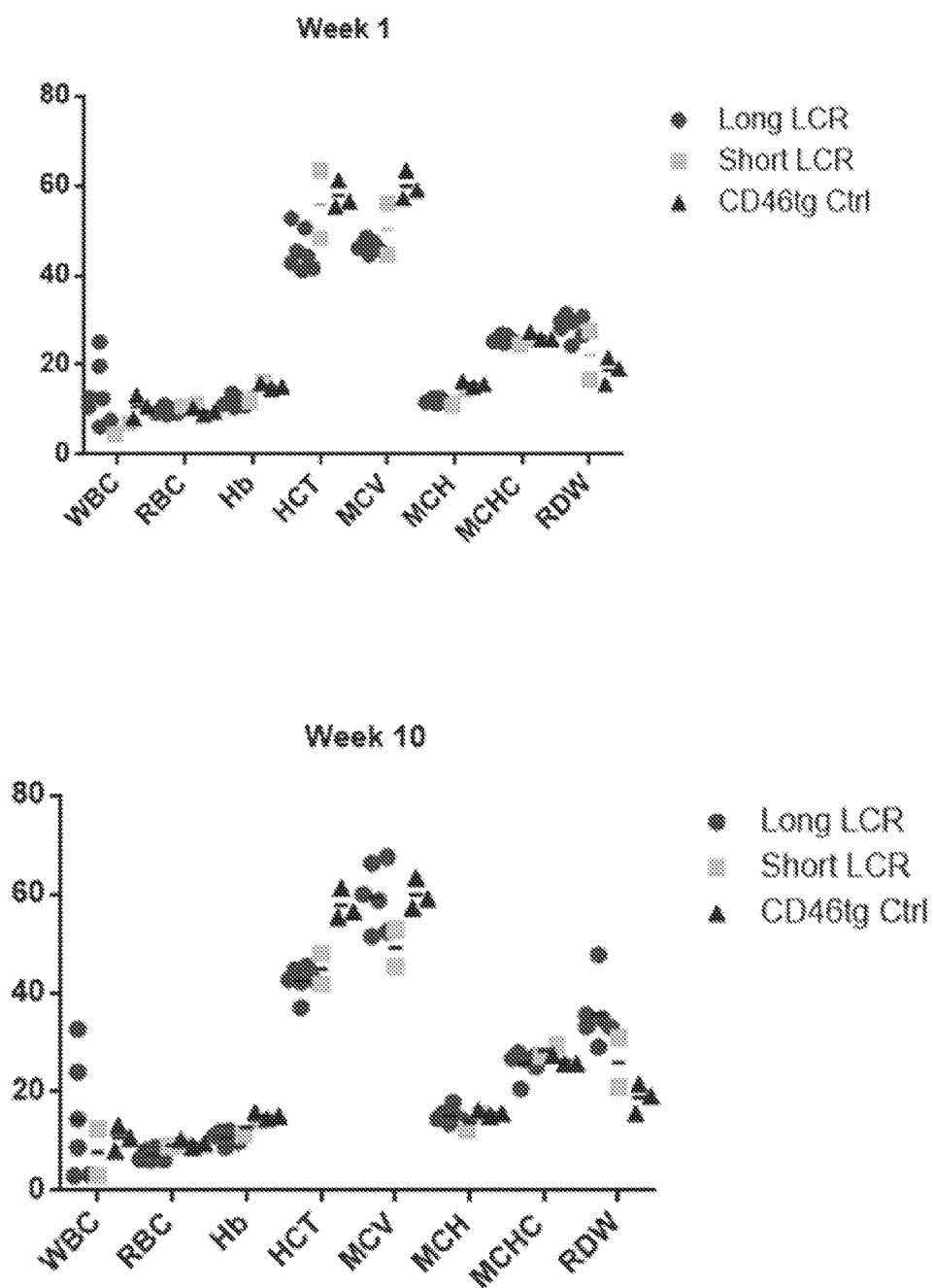


FIG. 23A

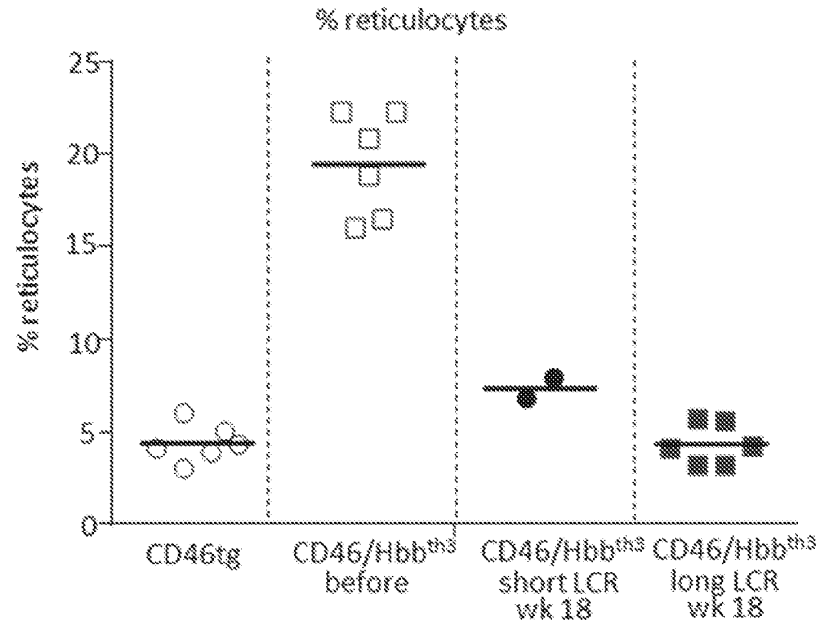


FIG. 23B

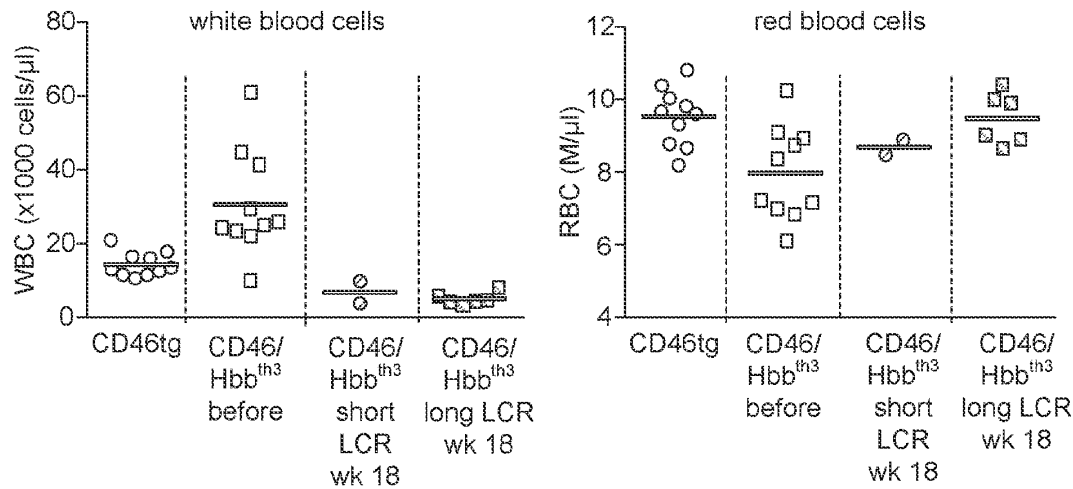


FIG. 23B cont'd

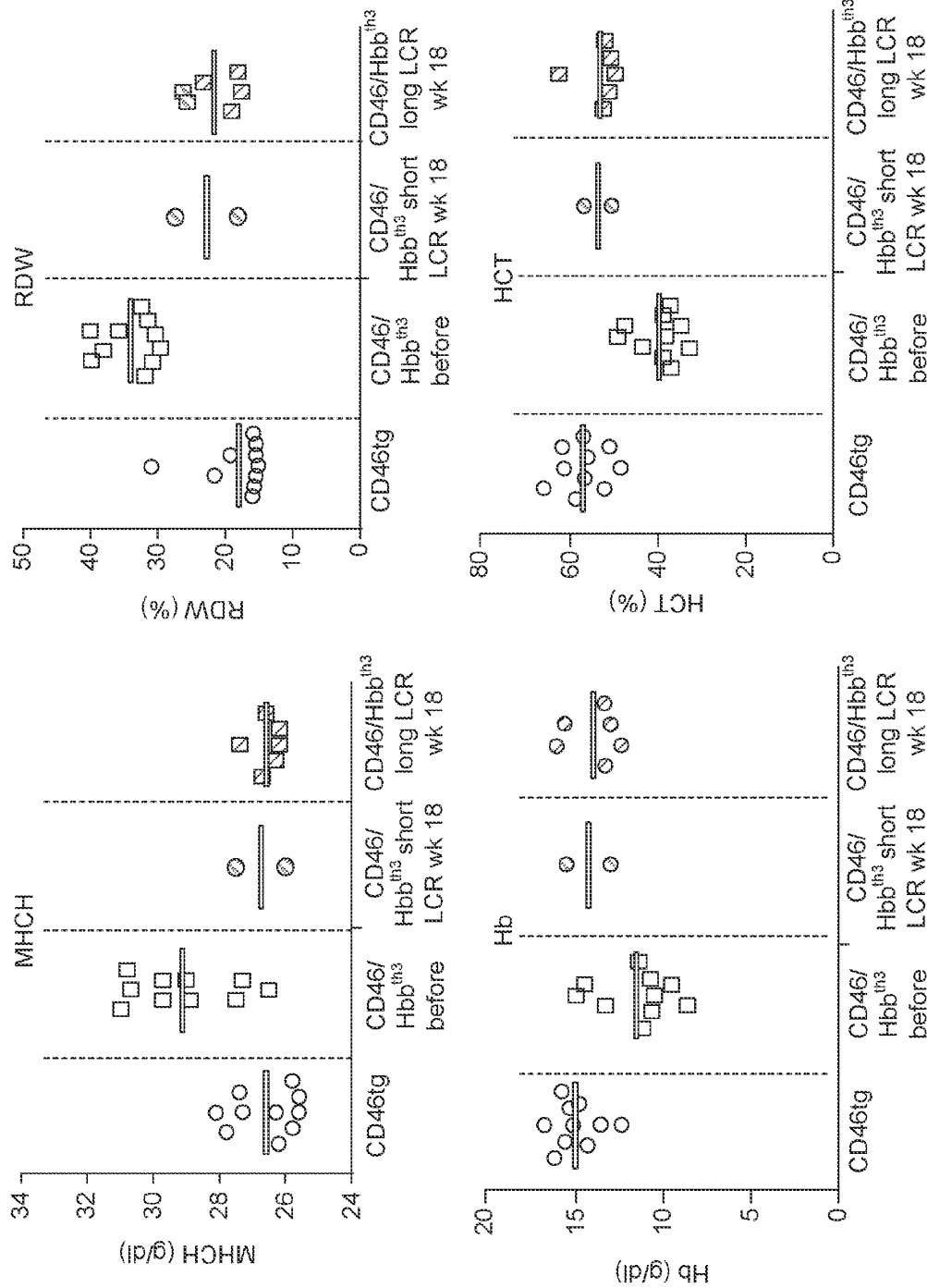


FIG. 23B (cont'd)

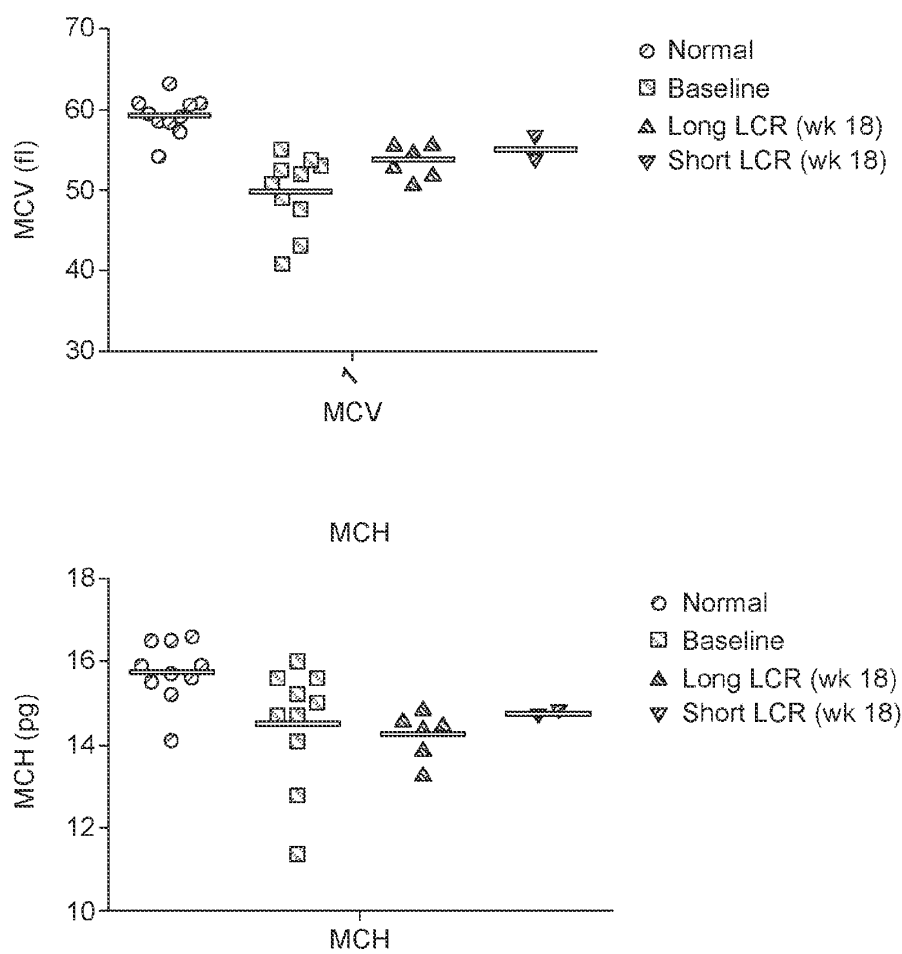


FIG. 24A

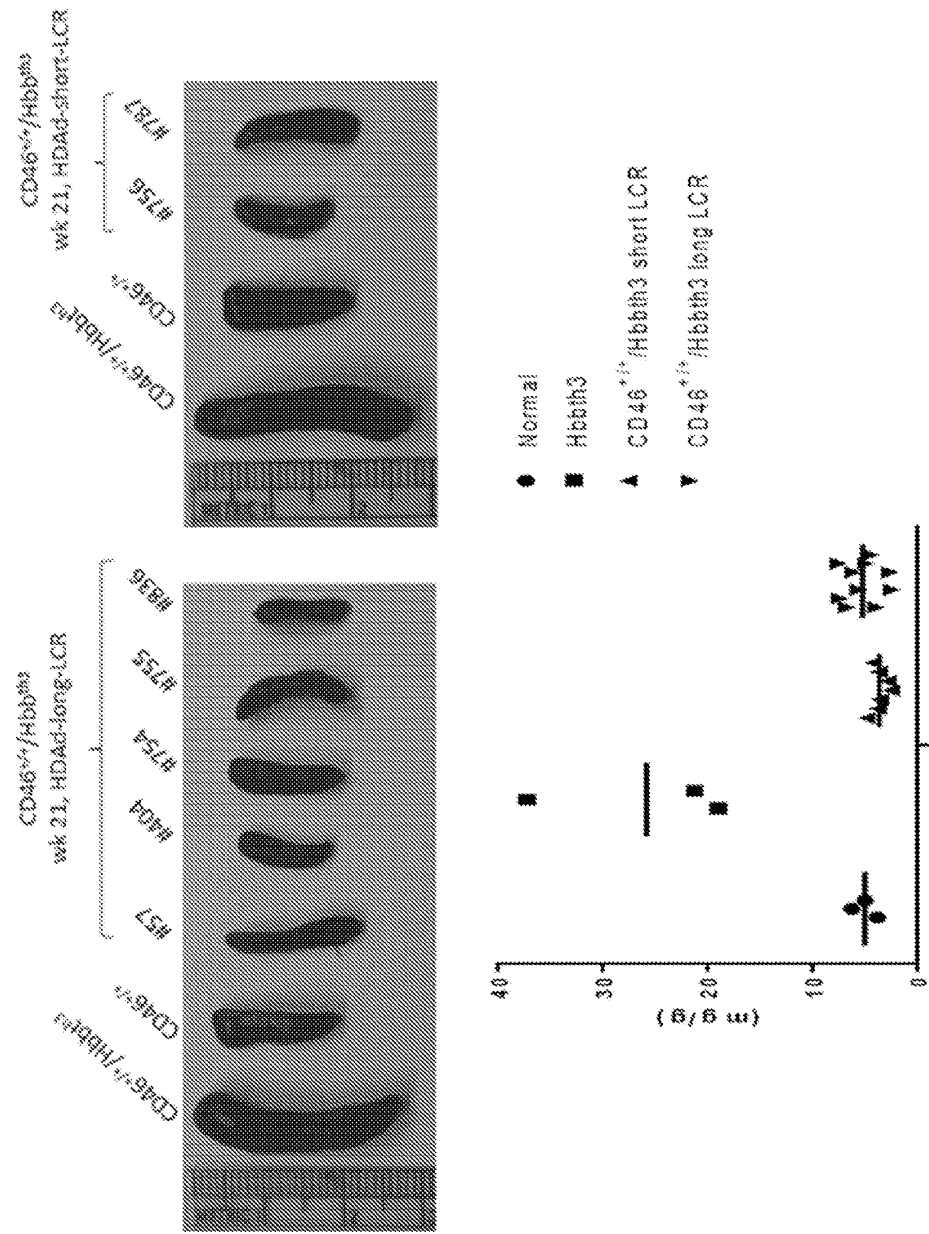


FIG. 24B

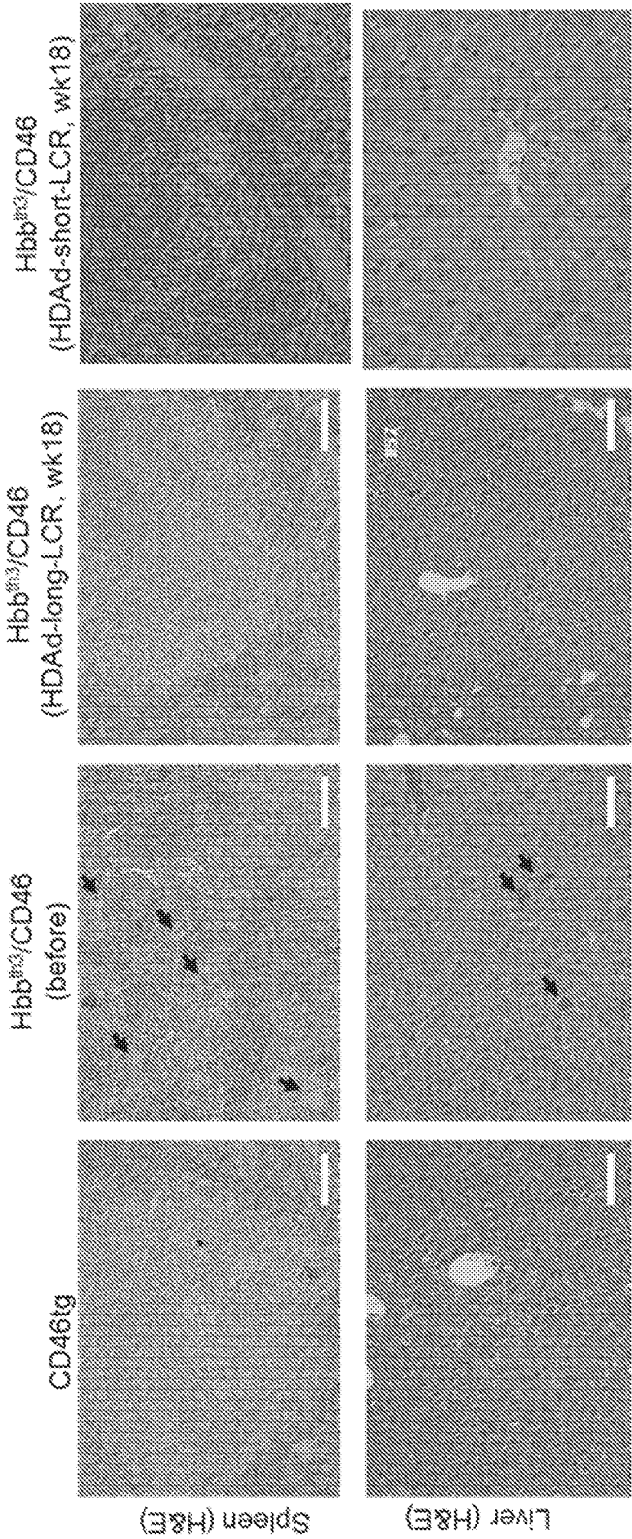


FIG. 25

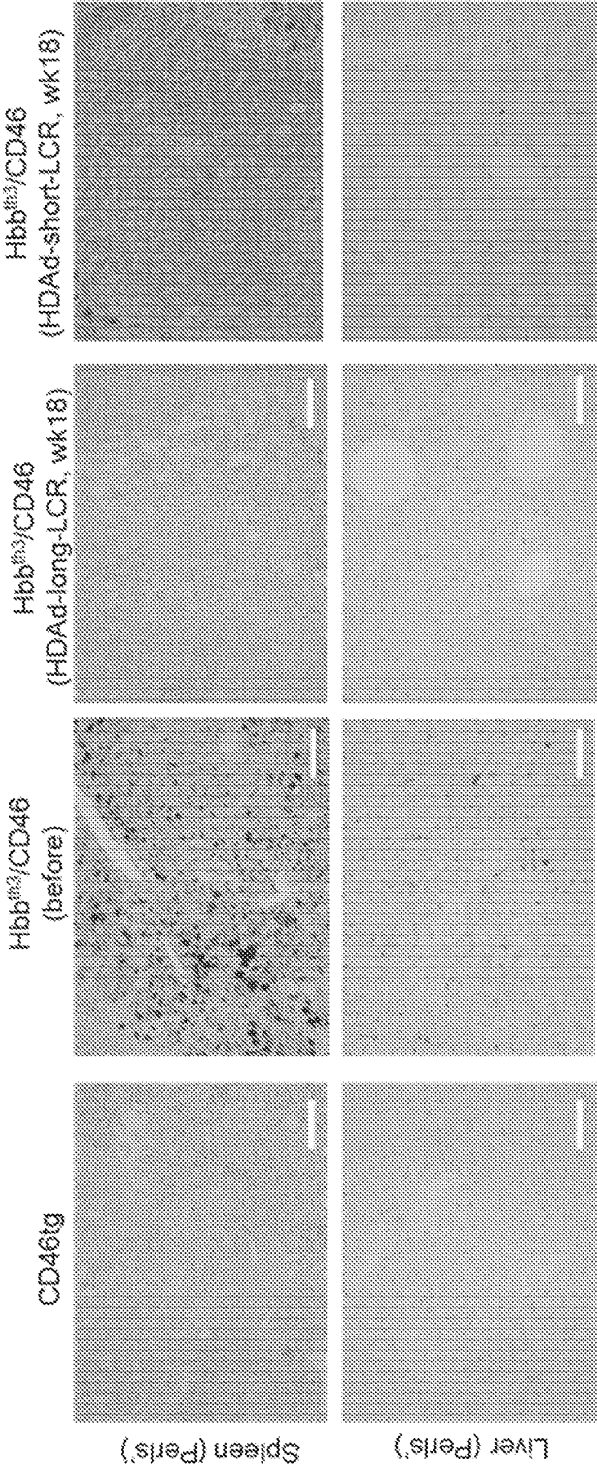


FIG. 26A

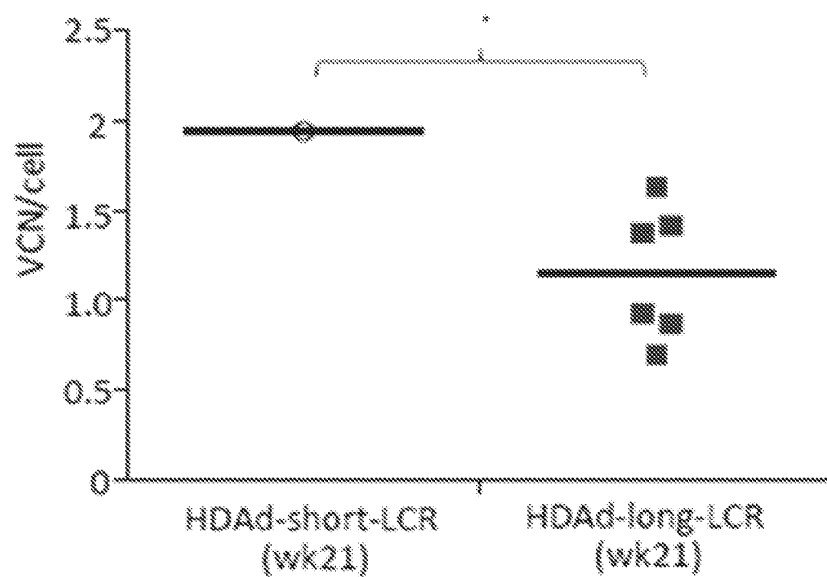


FIG. 26B

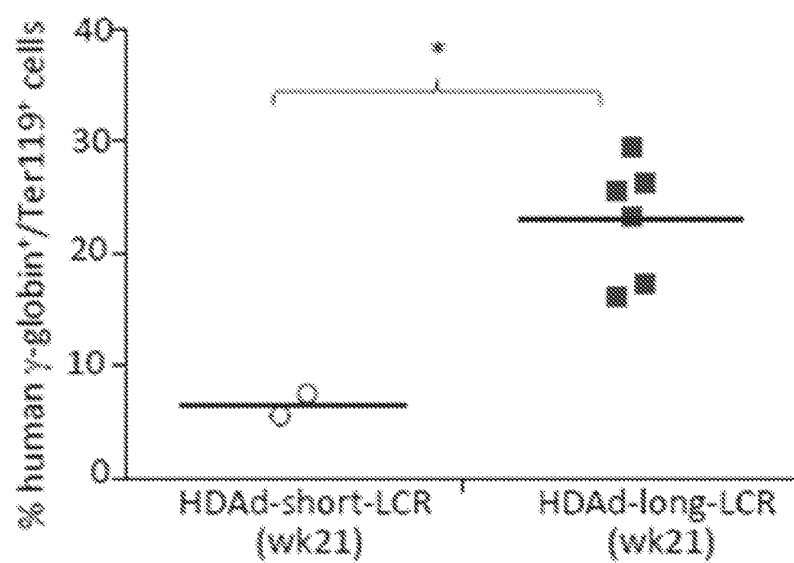


FIG. 26C

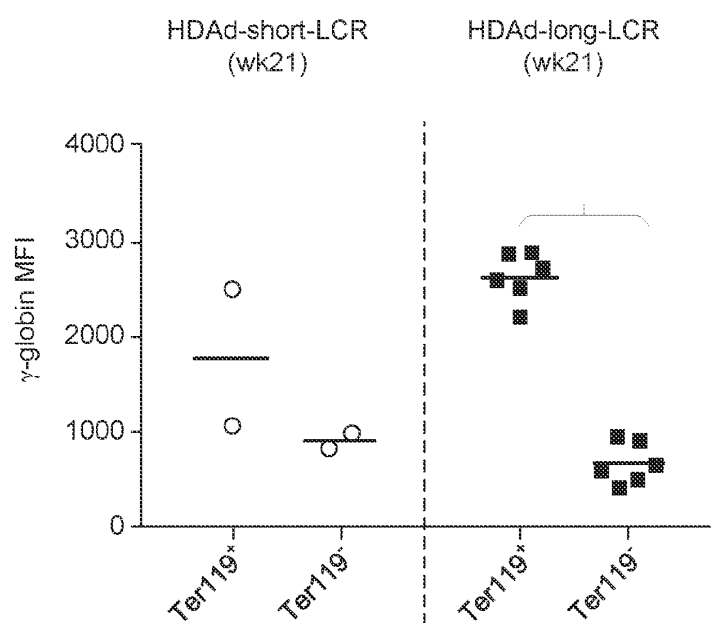
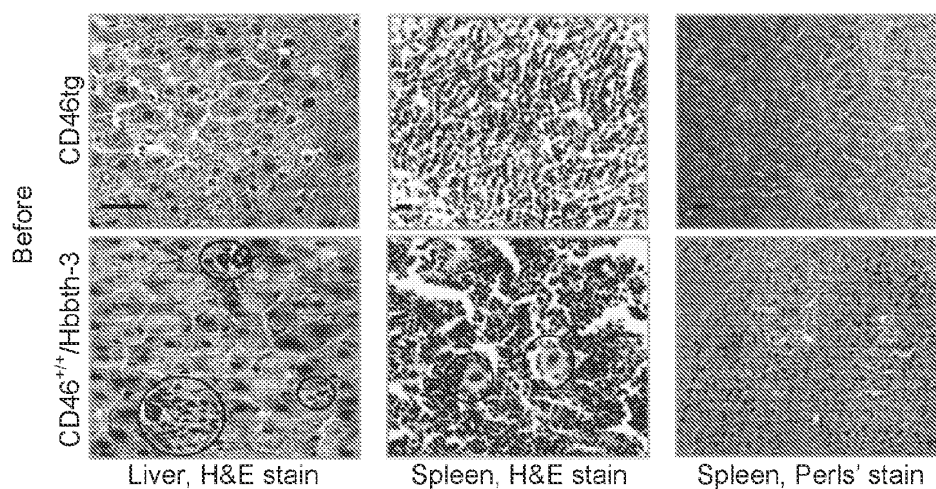


FIG. 27



SUBSTITUTE SHEET (RULE 26)

FIG. 28

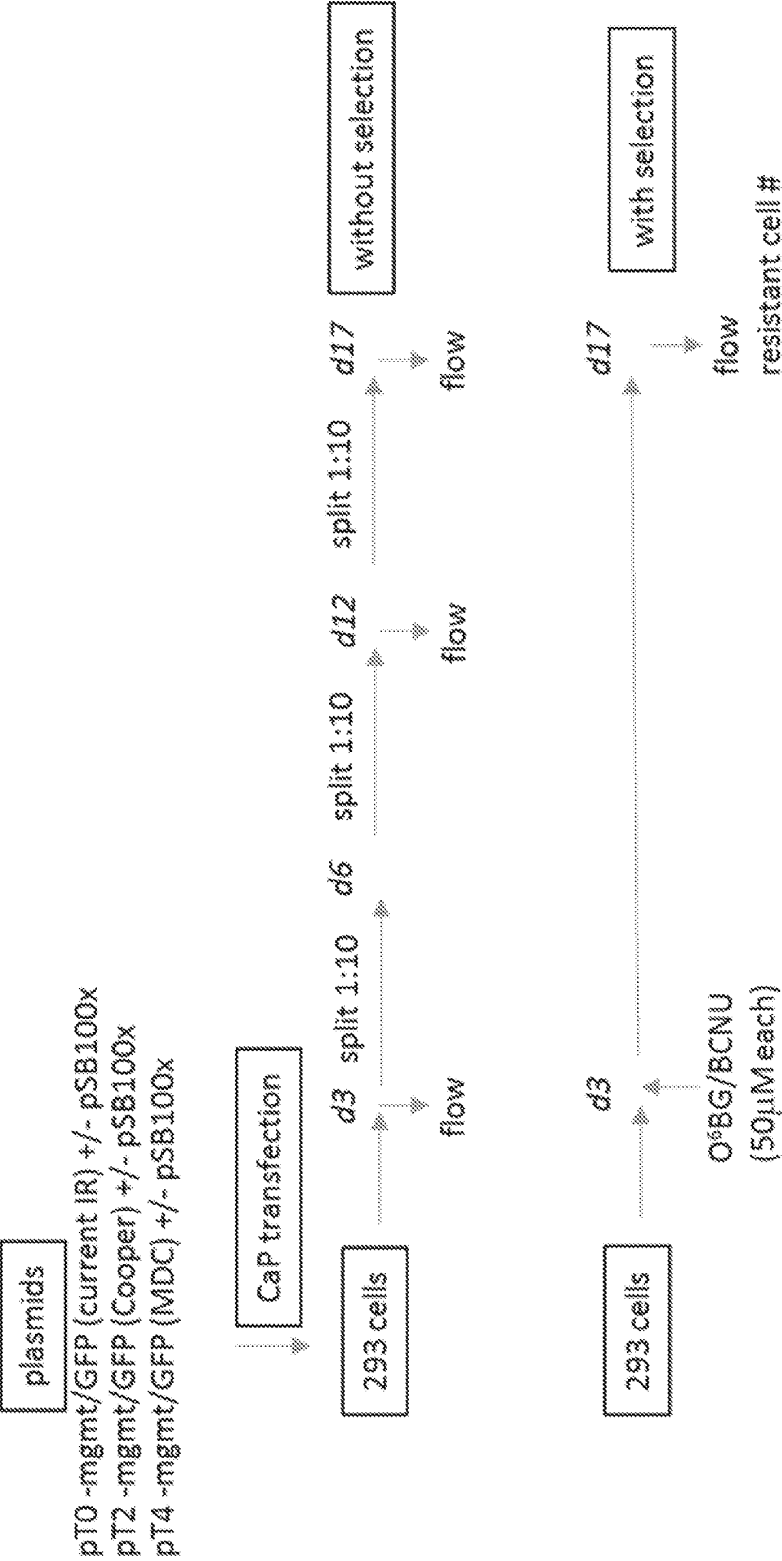


FIG. 29

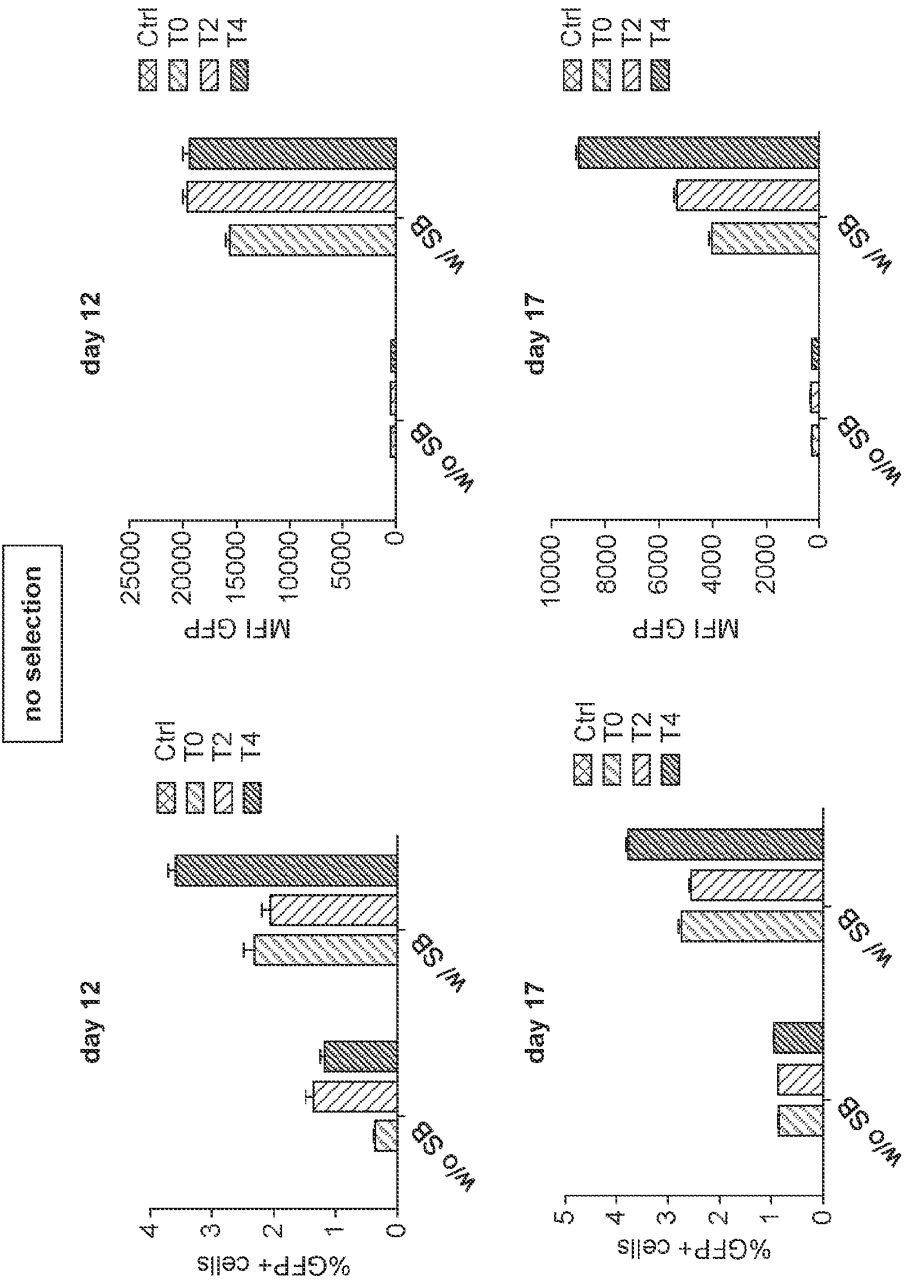


FIG. 30

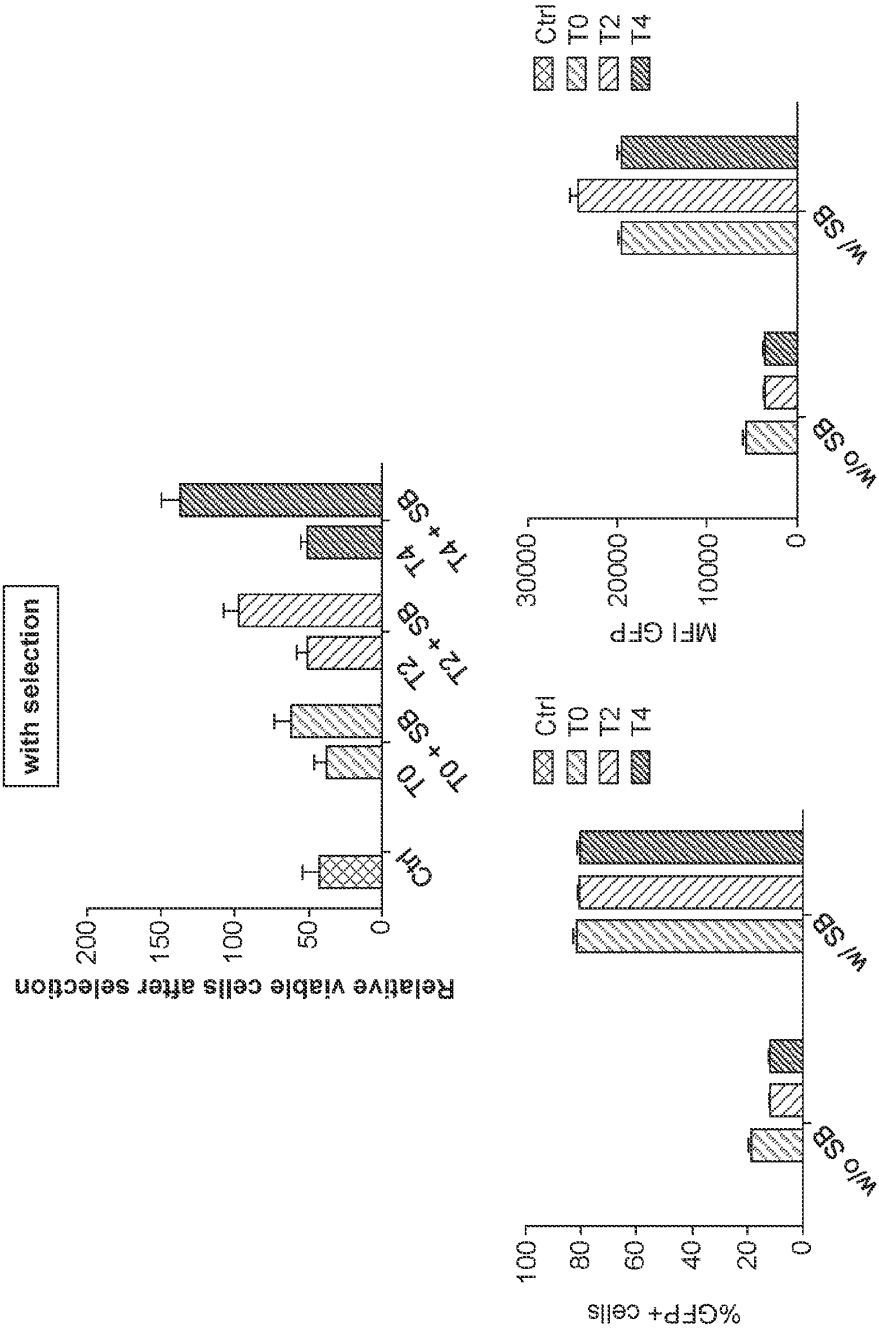
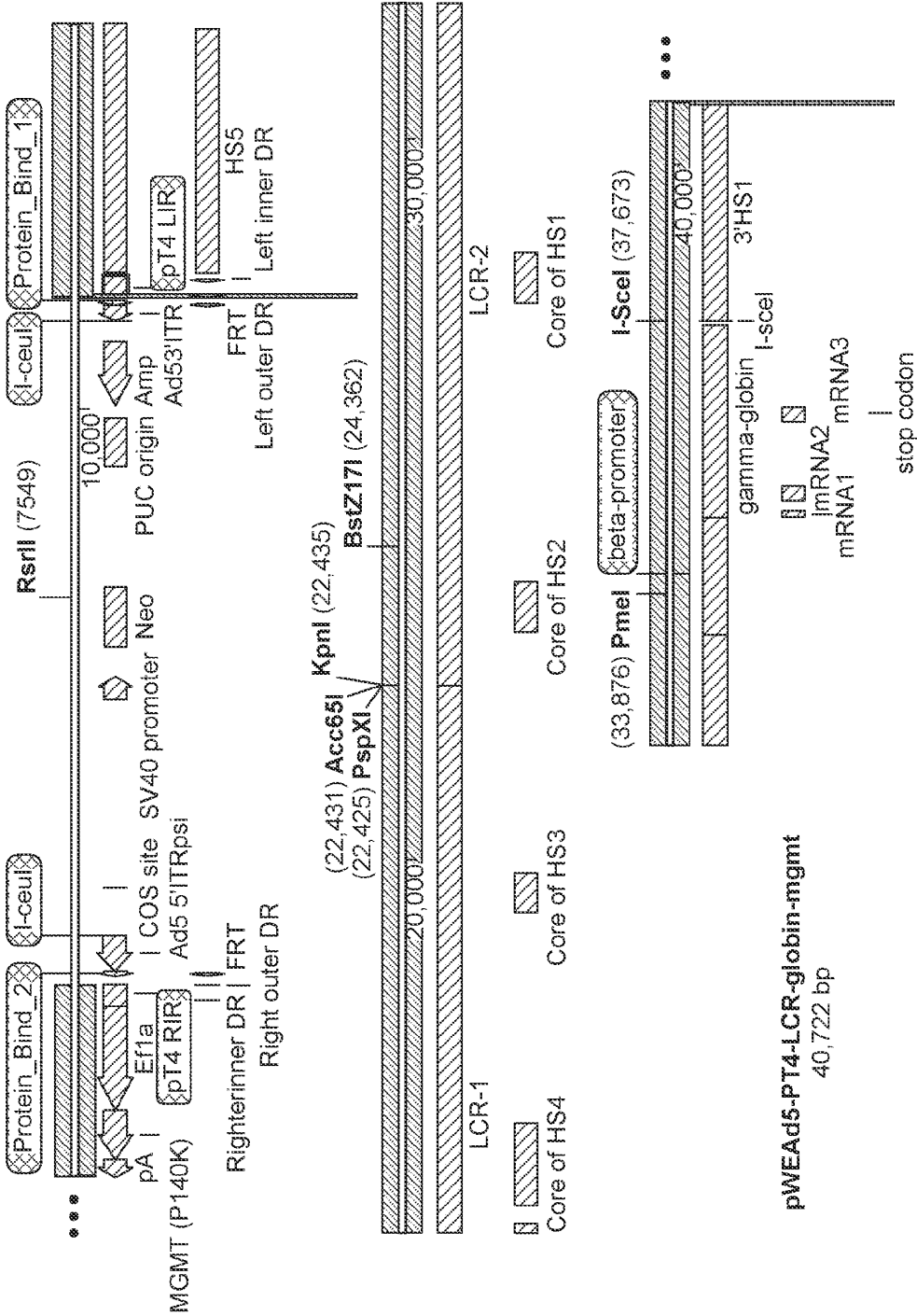


FIG. 31



23
K
G
L

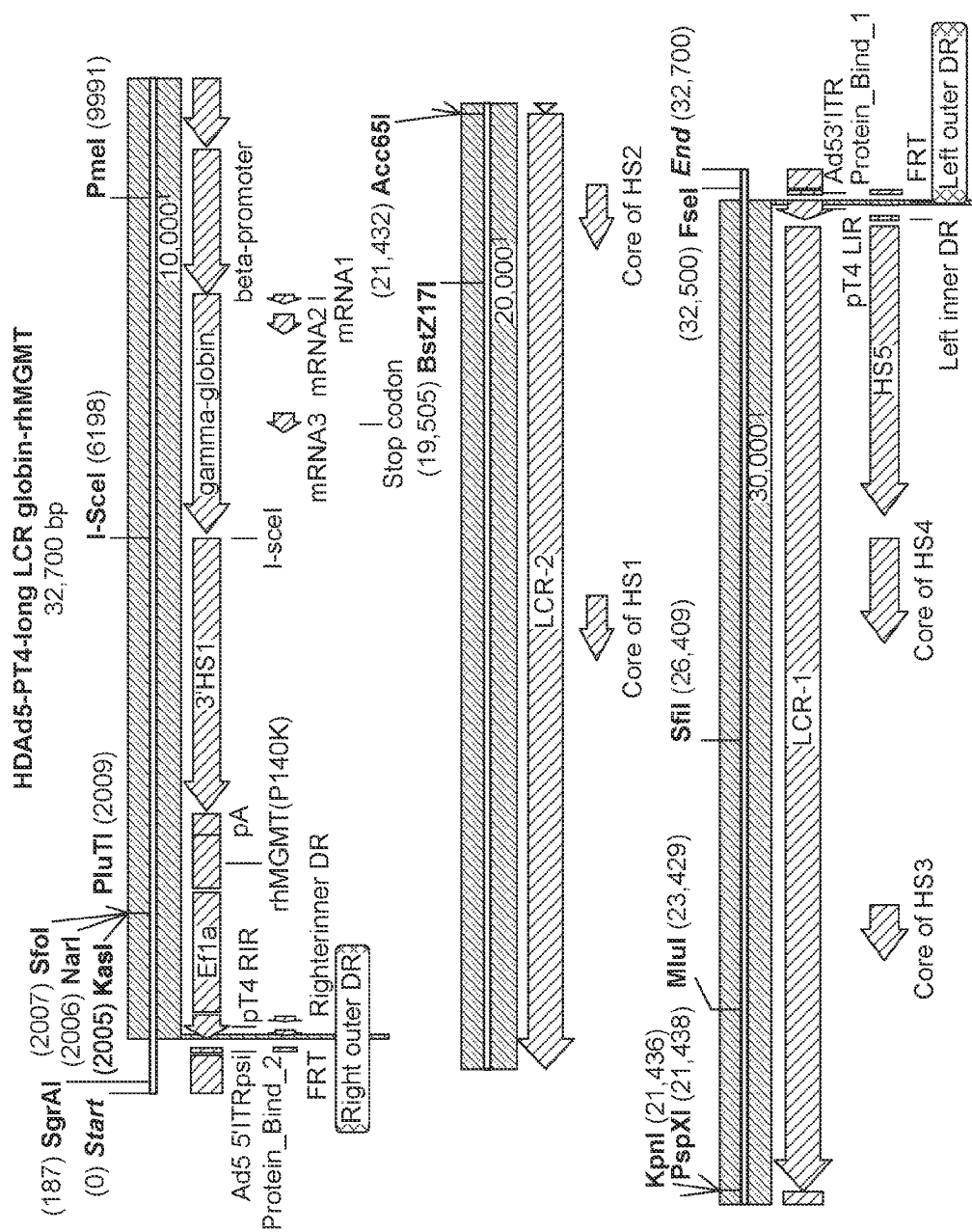


FIG. 34

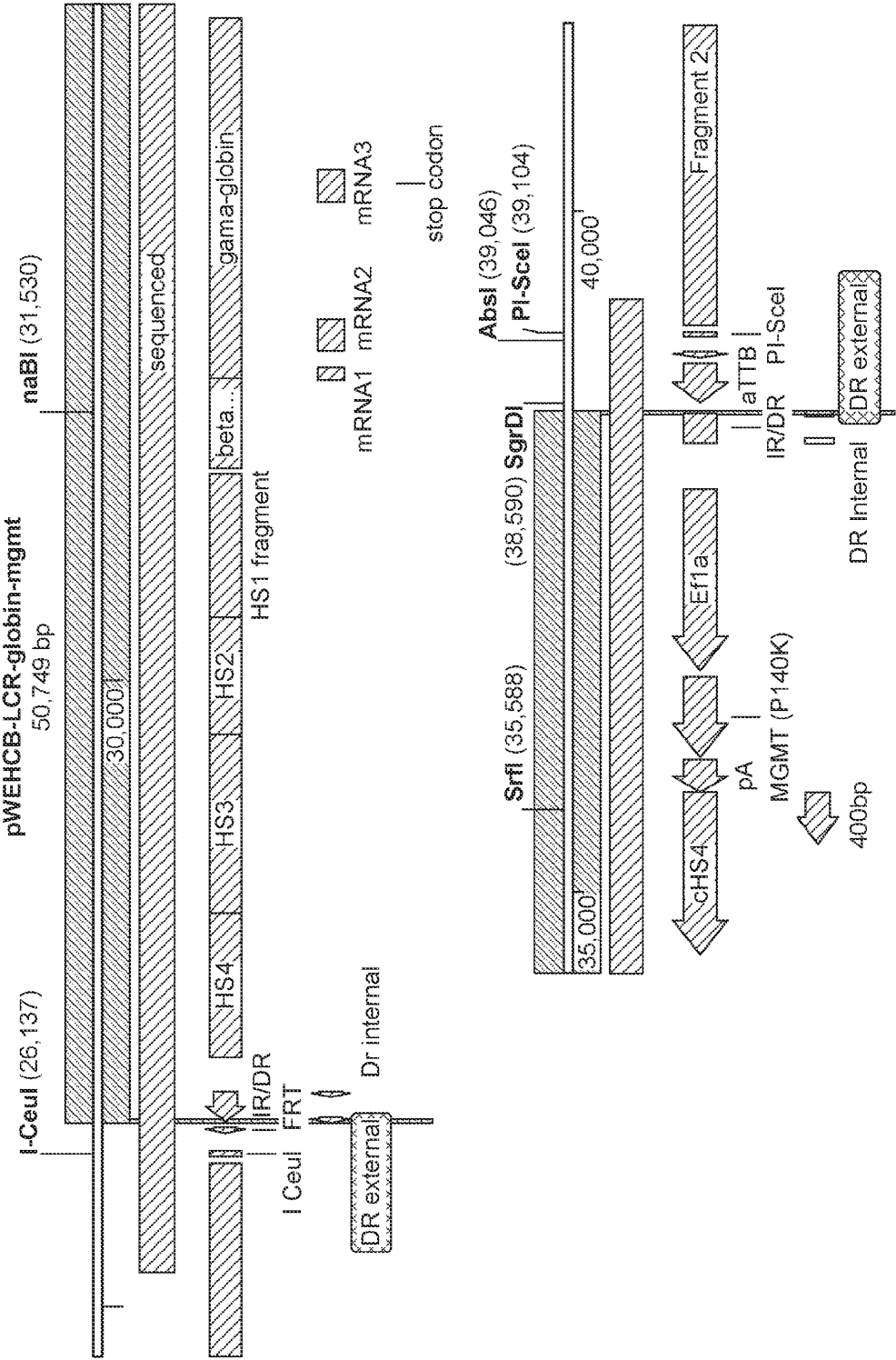


FIG. 35

pWEHCA-Faconi-GFP

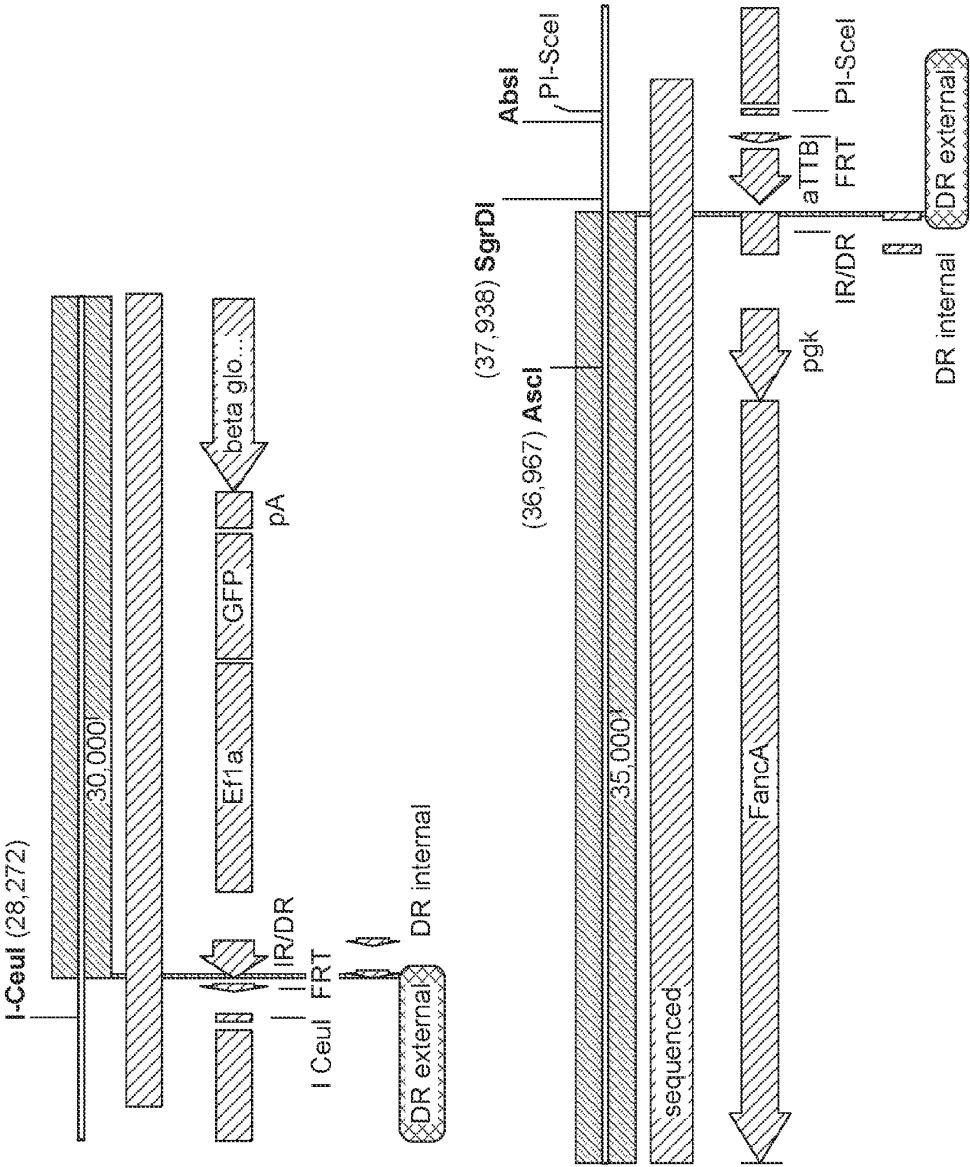


FIG. 36

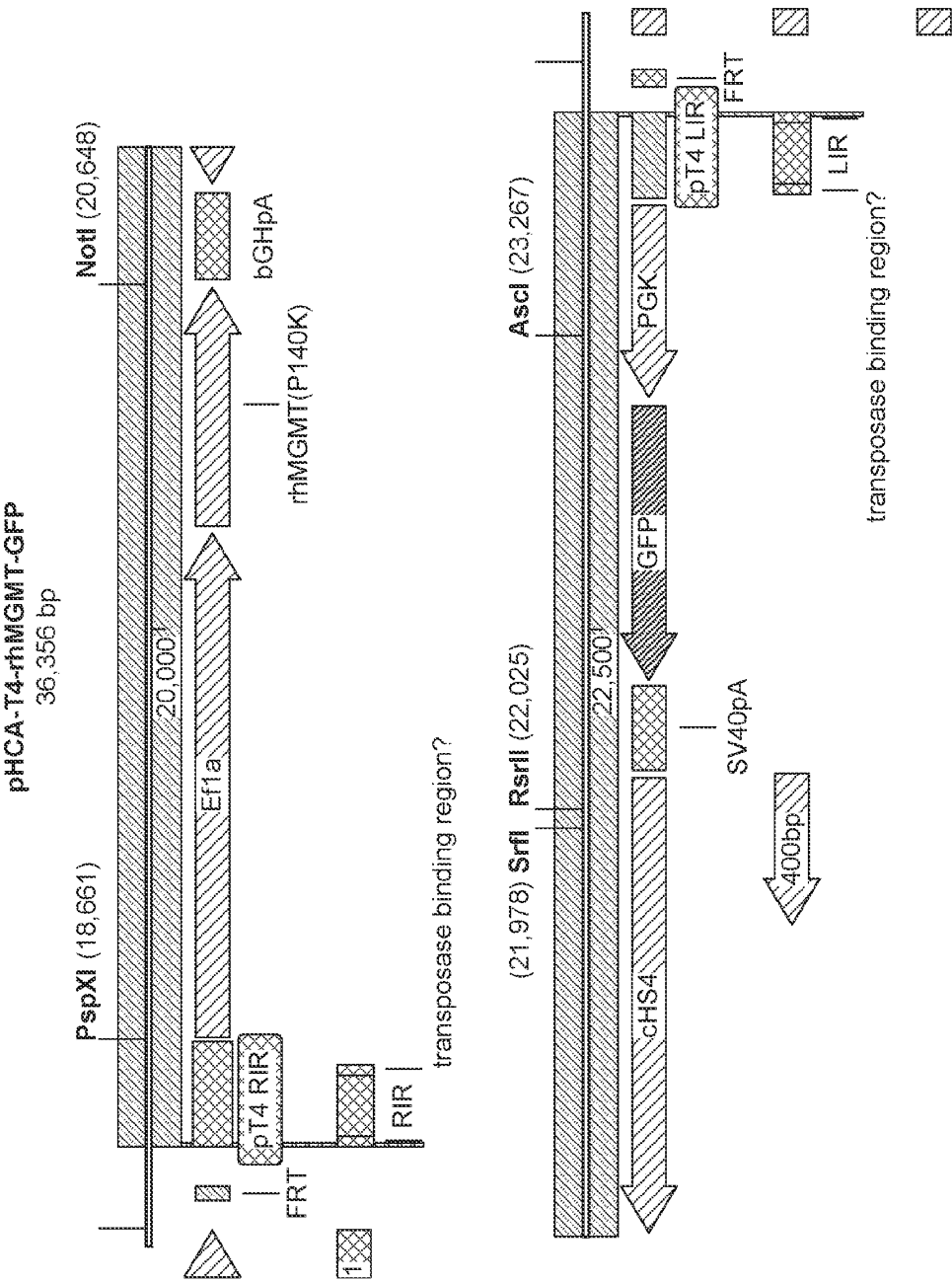


FIG. 37

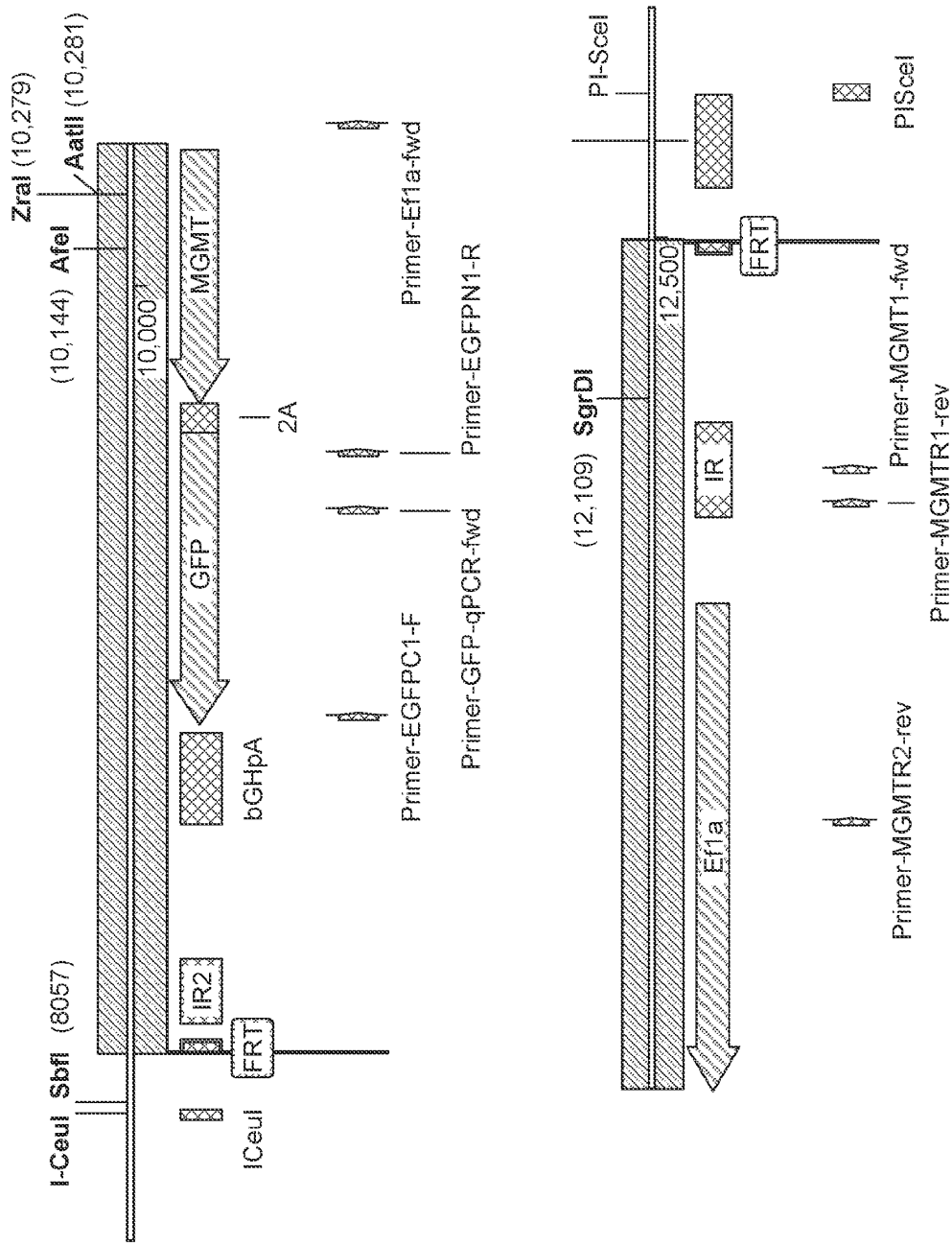


FIG. 38

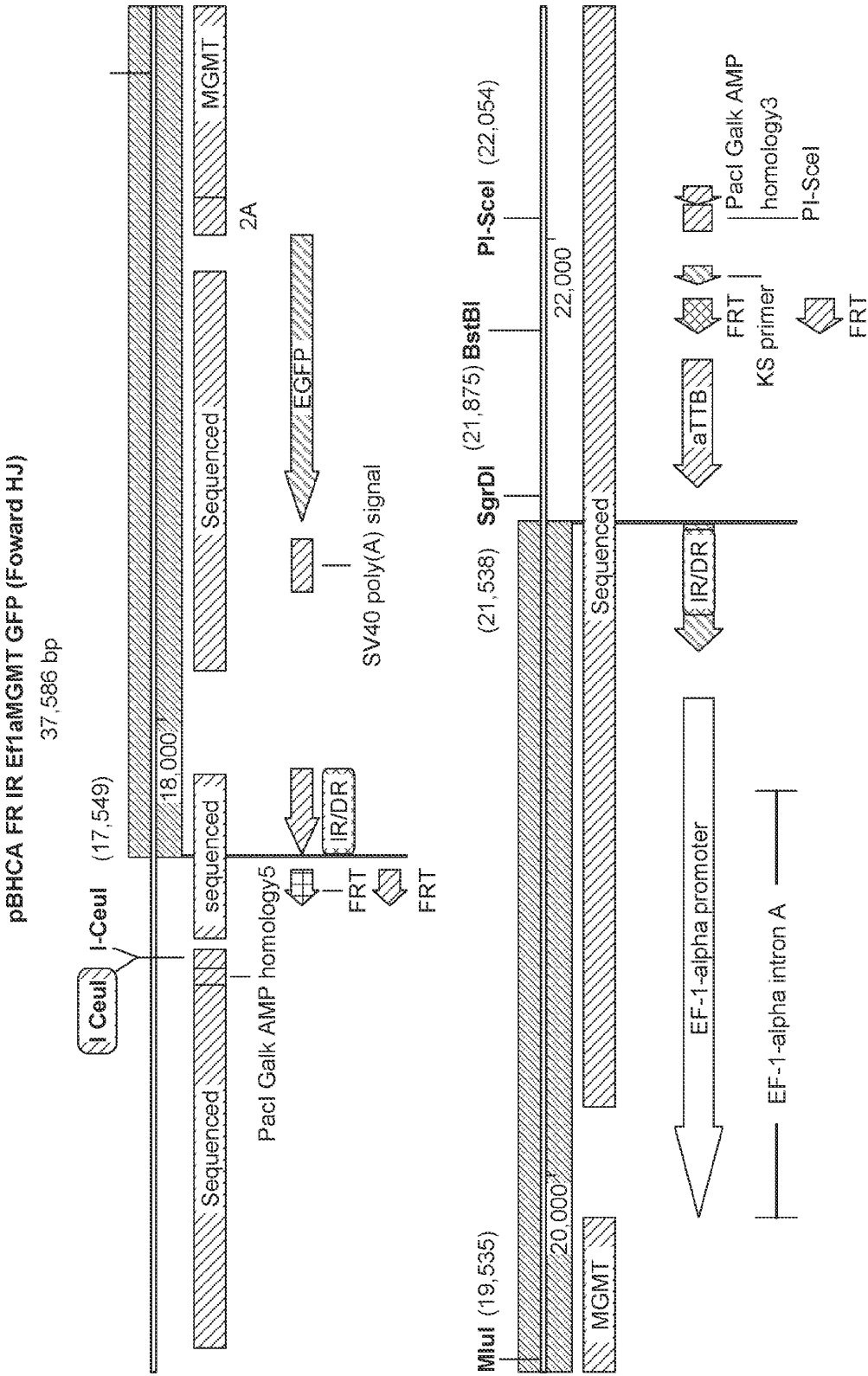
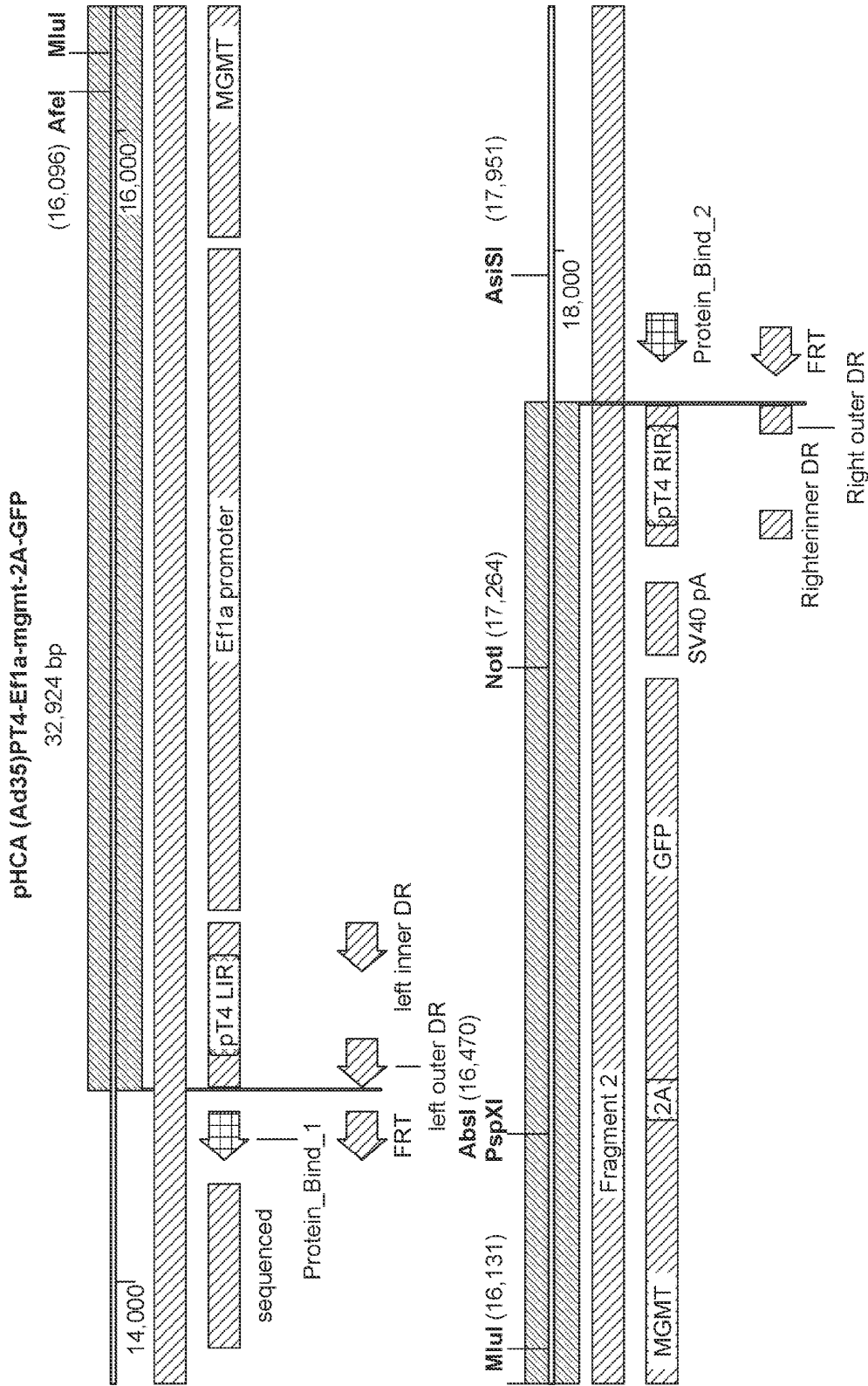


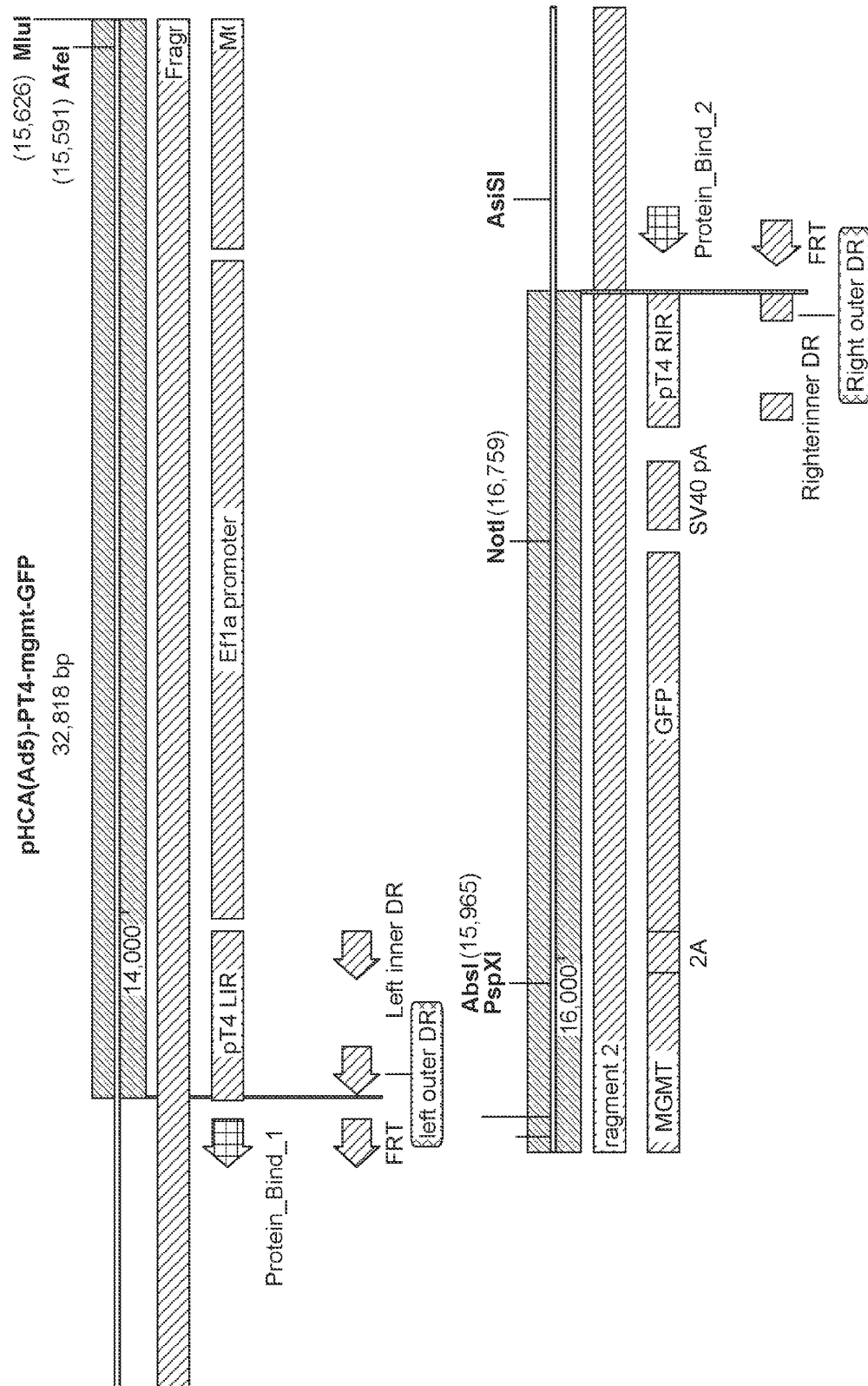
FIG. 39



40
K
G
E

pHCA(Ad5)-PT4-mgmt-GFP

32,818 bp



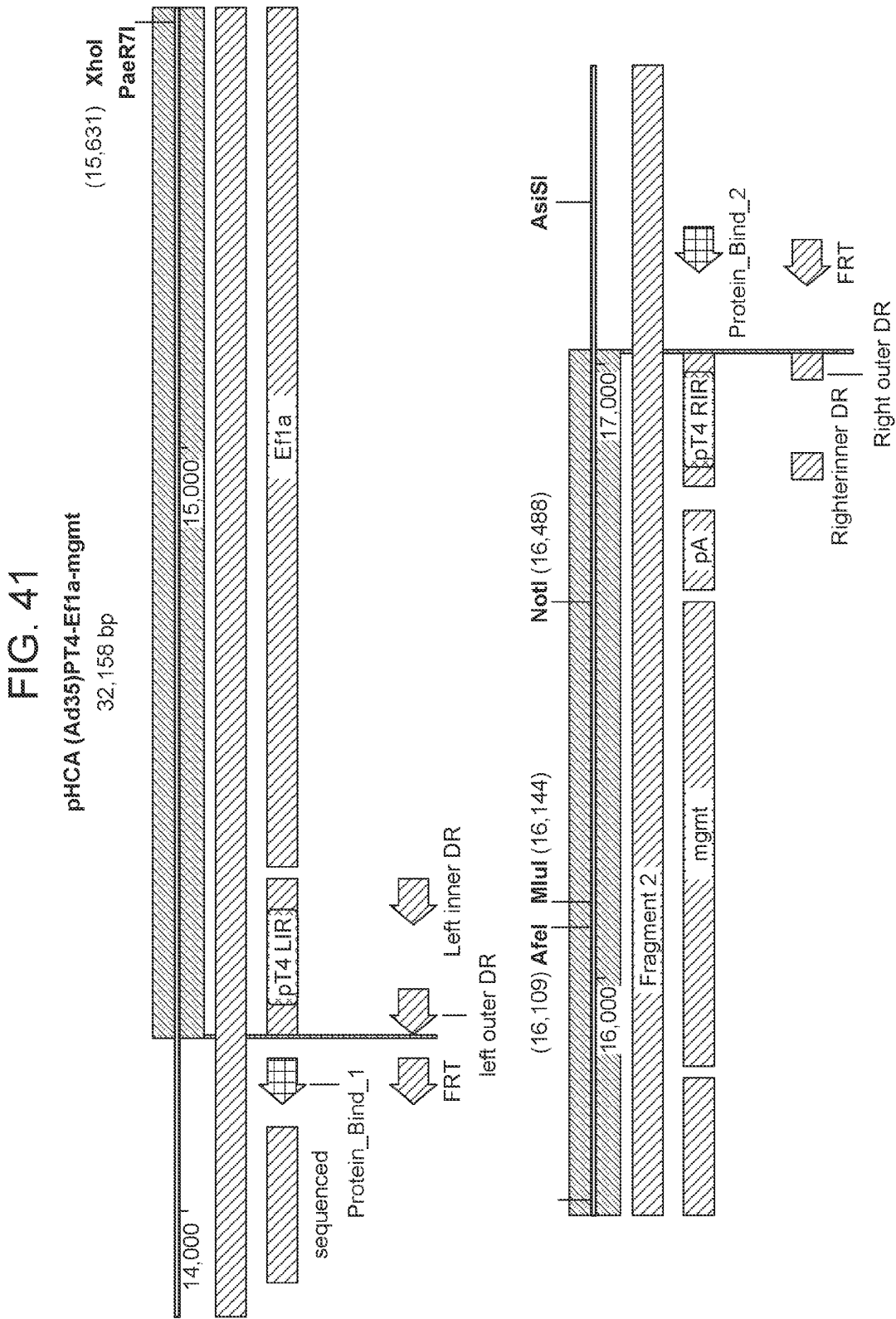


FIG. 42

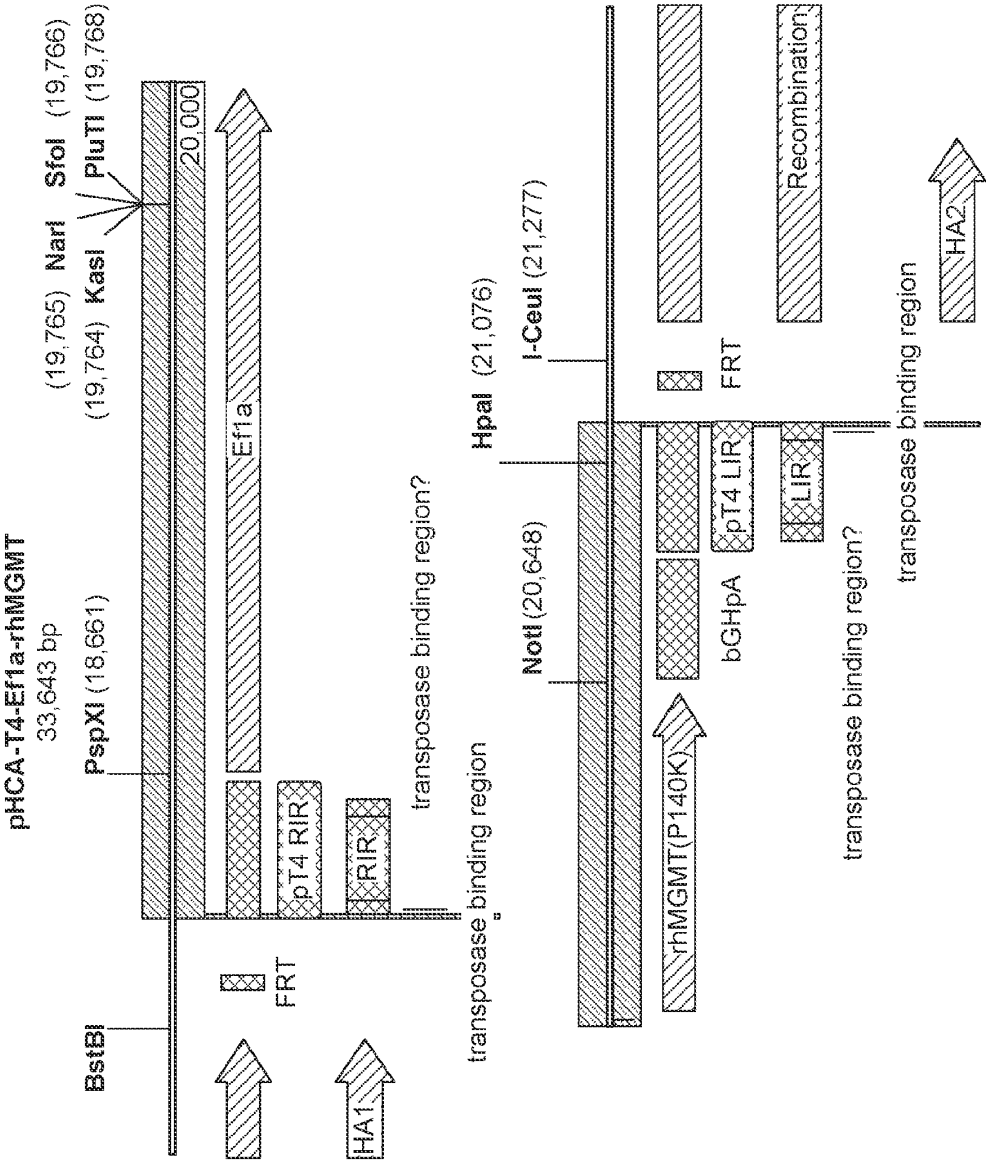


FIG. 43
pHCA(Ad5)-PT4-mgmt-GFP
32,026 bp

