Figure 1

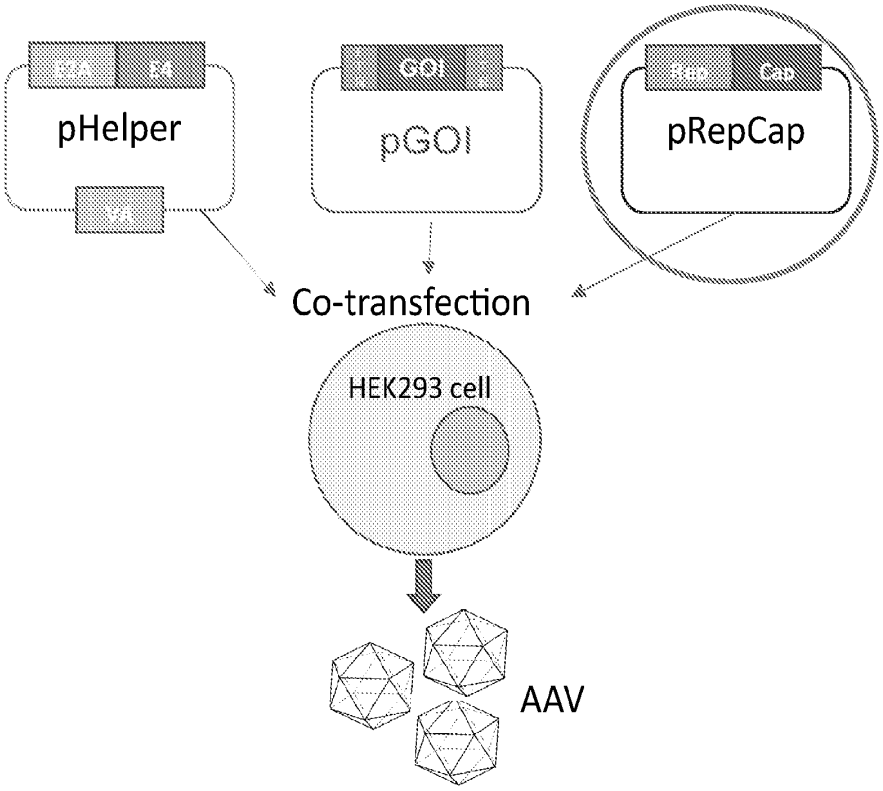


Figure 2

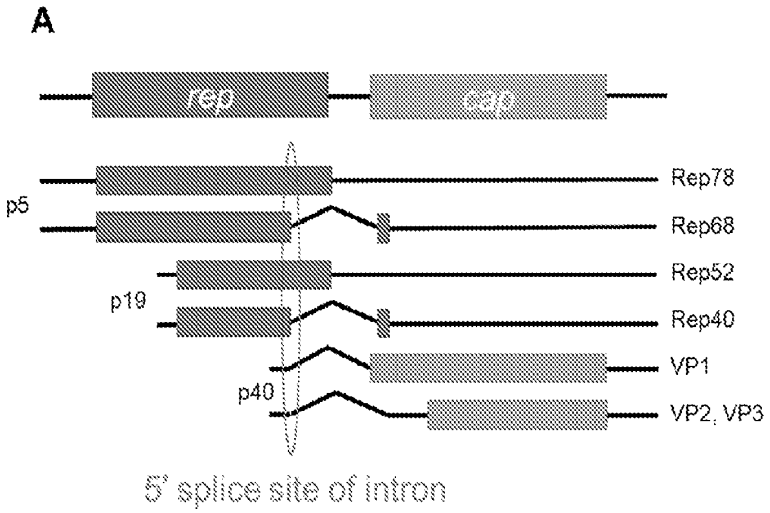


Figure 2 cont.

B

5' splice site sequences

Consensus:	CAG	GTAAGT
Original pRepCap:	CAG	GTA**CCA**
Splicing activation:	CAG	GTA**C*GT***
	Exon ⇐	⇒ Intron

Figure 3

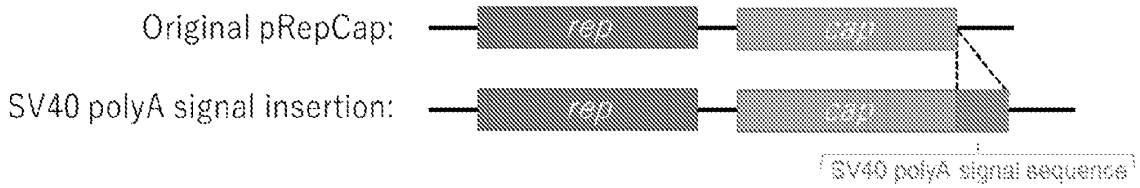
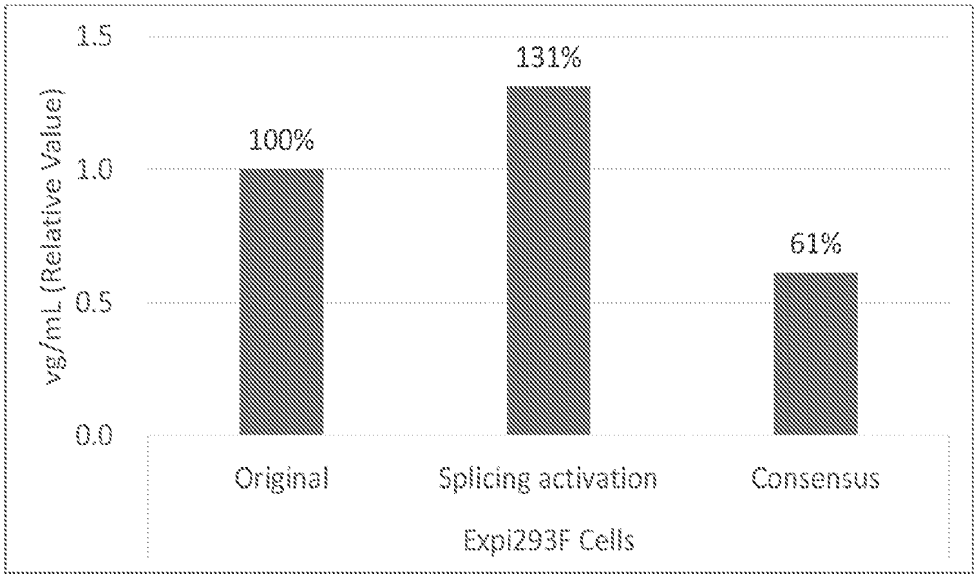


Figure 4

A


1.5
1.0
0.5
0.0
vg/mL (Relative Value)
100%
131%
61%
Original
Splicing activation
Consensus
Expi293F Cells

B

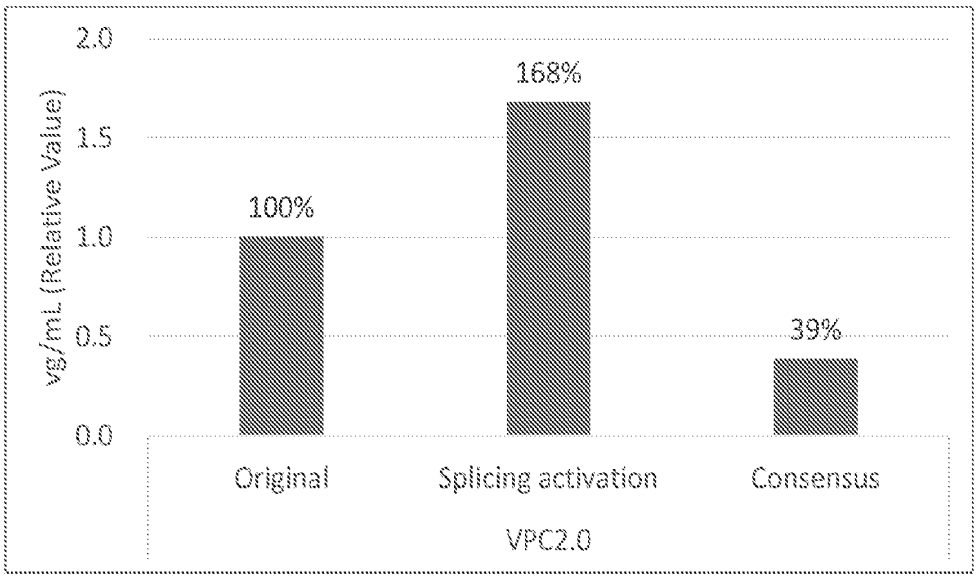

2.0
1.5
1.0
0.5
0.0
vg/mL (Relative Value)
100%
168%
39%
Original
Splicing activation
Consensus
VPC2.0

Figure 5

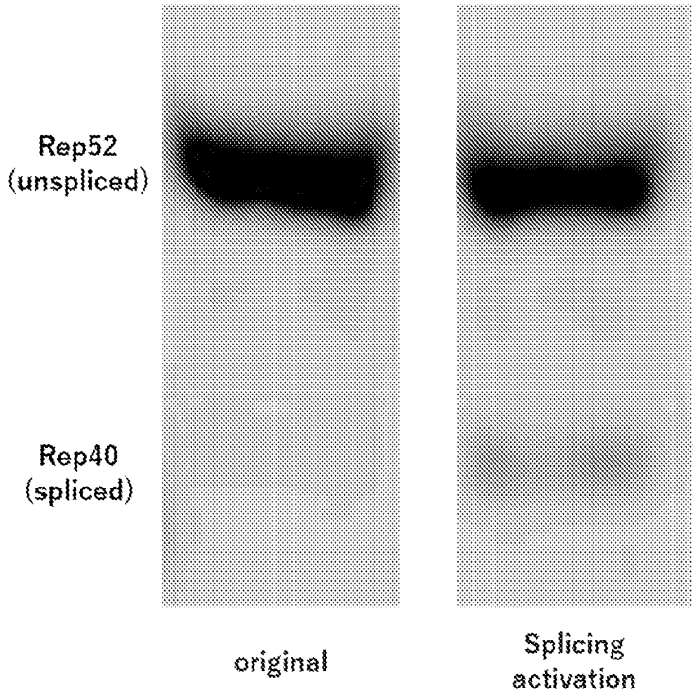


Figure 6

A

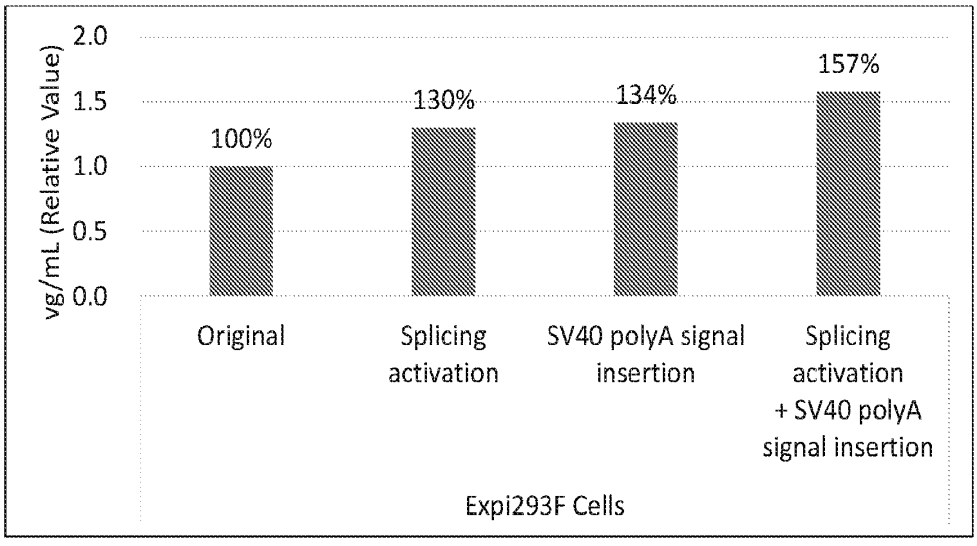


Figure 6 cont.

B

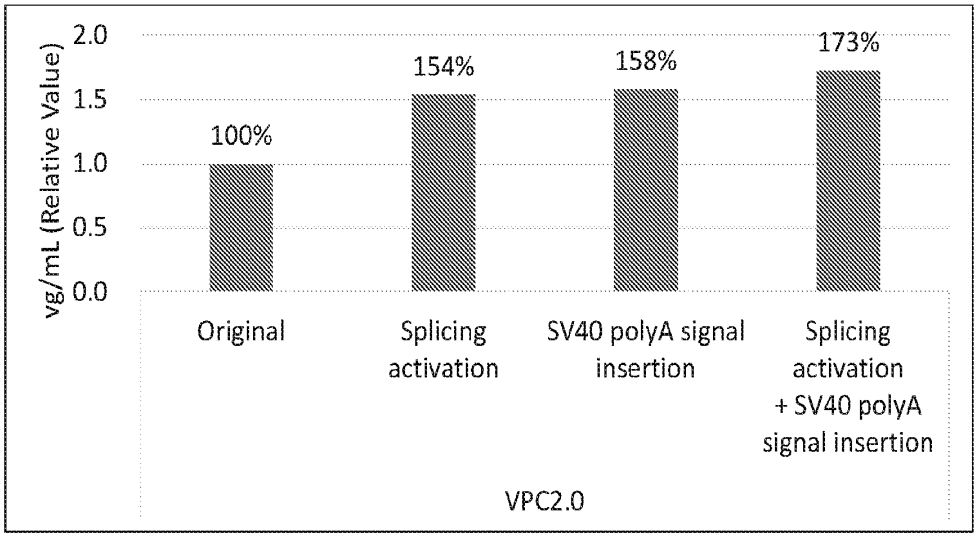


Figure 7

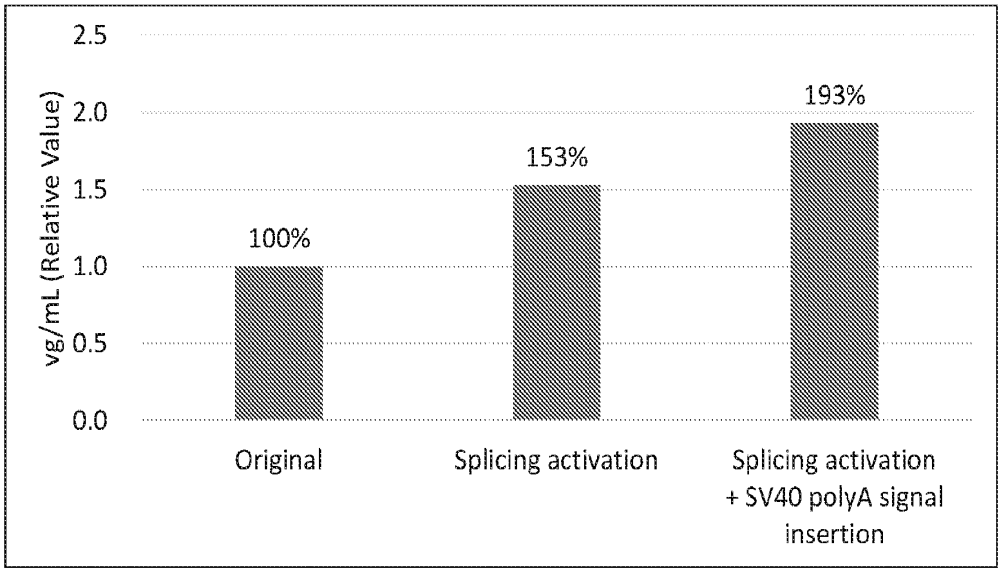
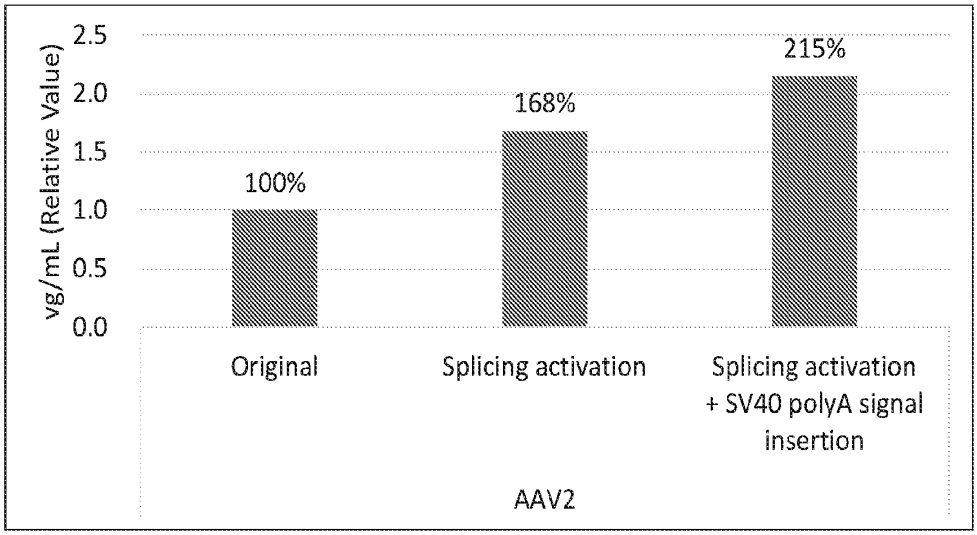


Figure 8

A


vg/mL (Relative Value)
2.5
2.0
1.5
1.0
0.5
0.0
100%
168%
215%
Original
Splicing activation
Splicing activation + SV40 polyA signal insertion
AAV2

B

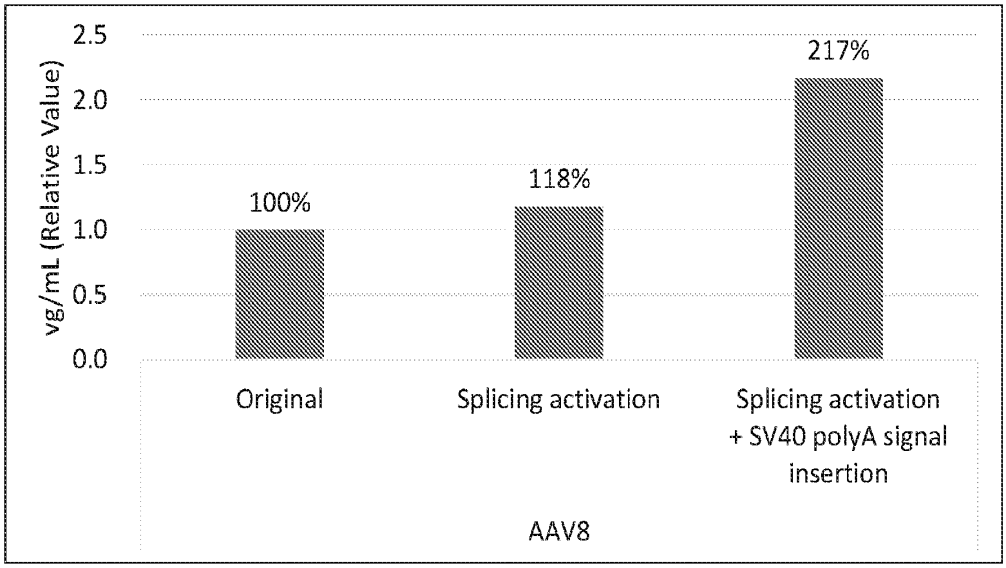

vg/mL (Relative Value)
2.5
2.0
1.5
1.0
0.5
0.0
100%
118%
217%
Original
Splicing activation
Splicing activation + SV40 polyA signal insertion
AAV8

Figure 8 cont.

C

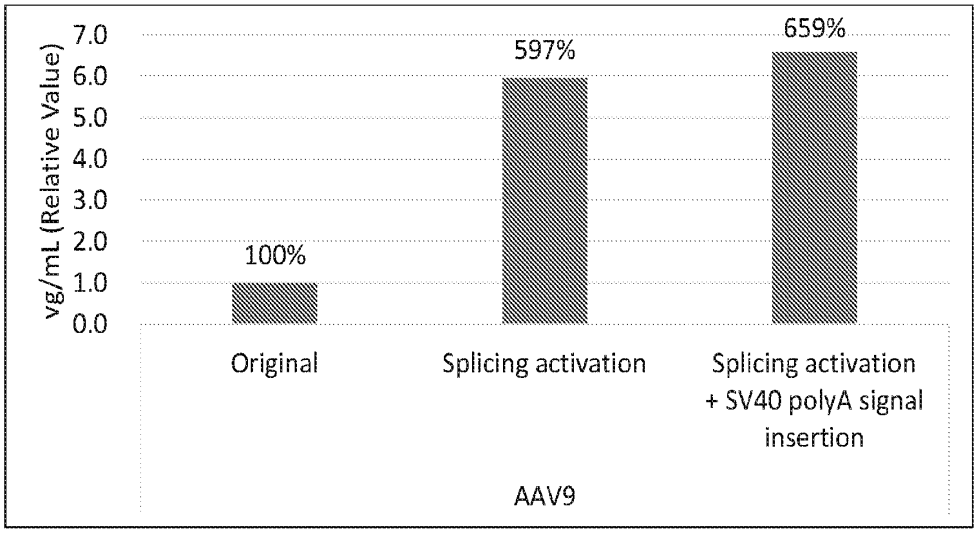


Figure 9

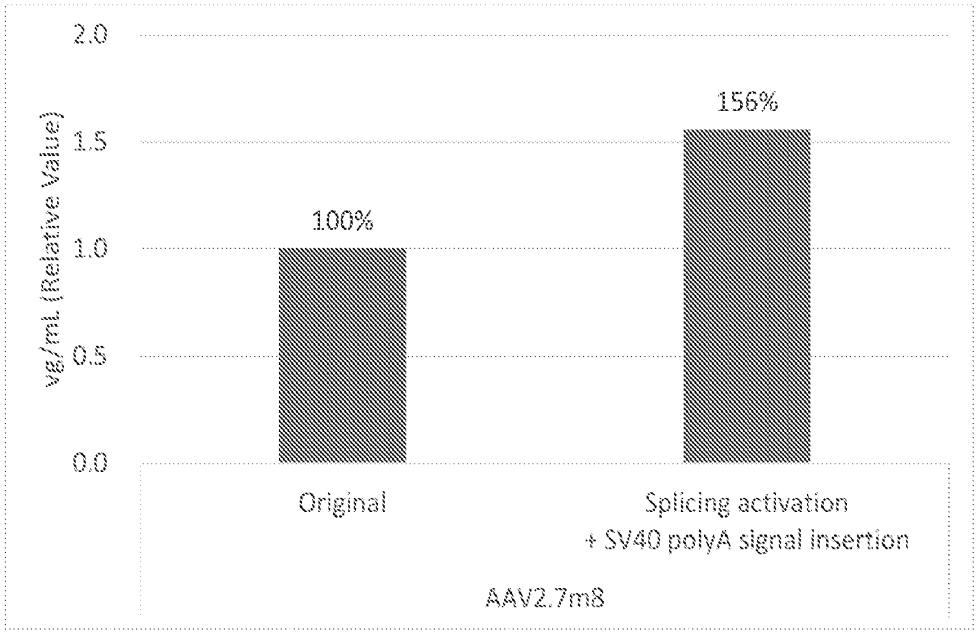


Figure 10



Figure 11

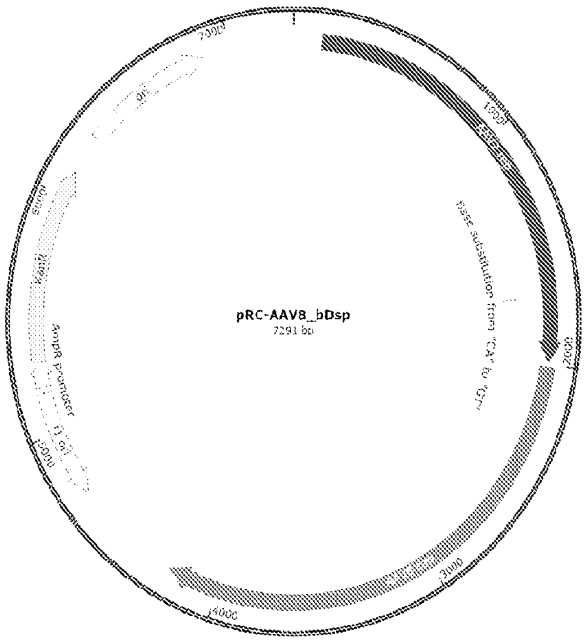


Figure 12

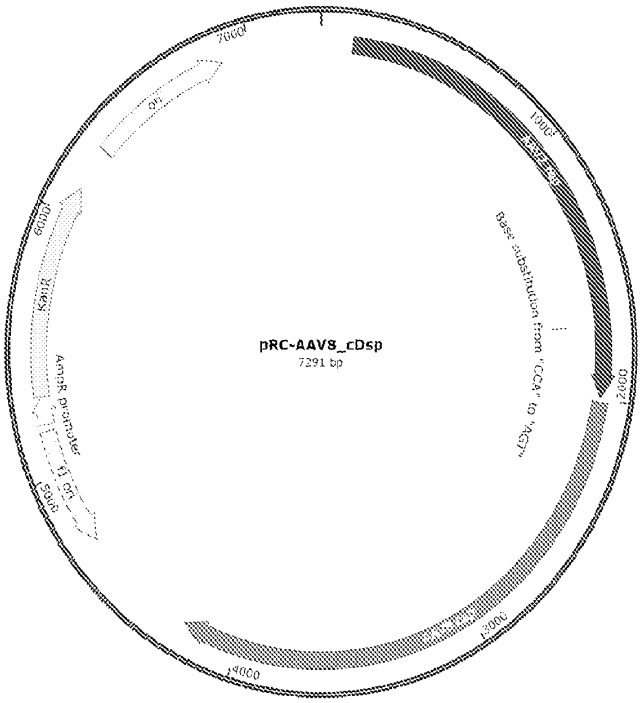


Figure 13

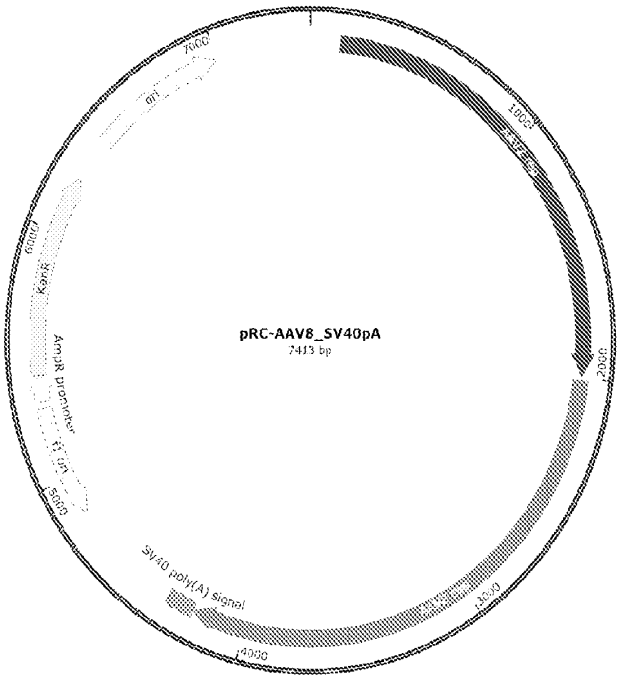


Figure 14



Figure 15



Figure 16

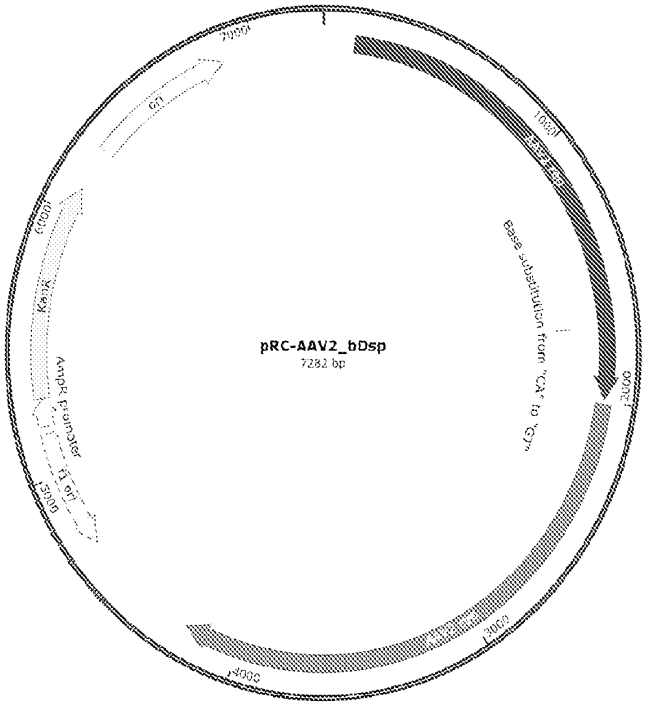


Figure 17



Figure 18

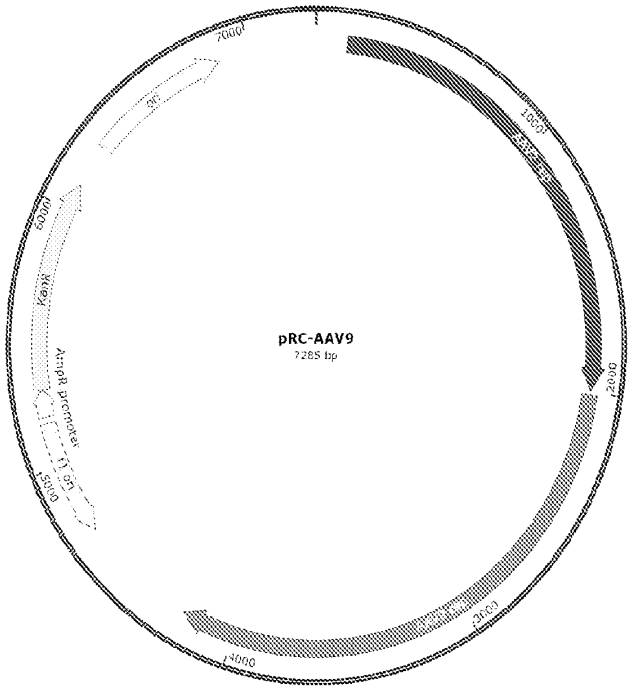


Figure 19

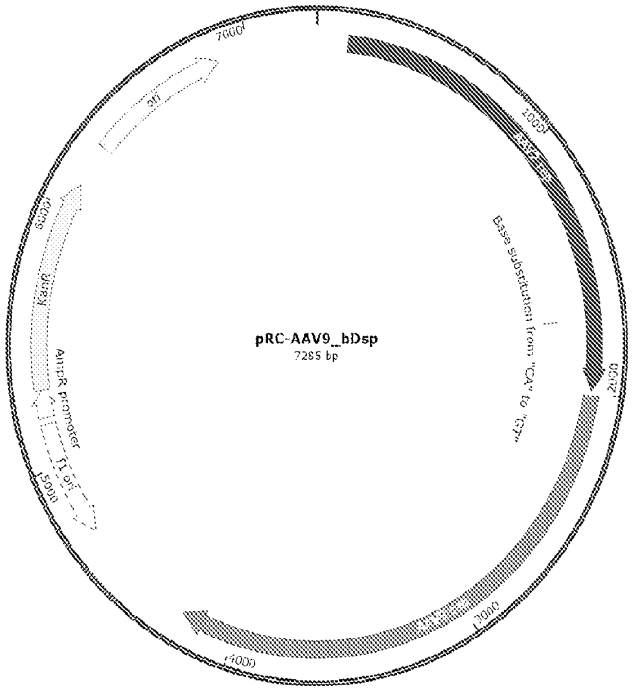


Figure 20



Figure 21

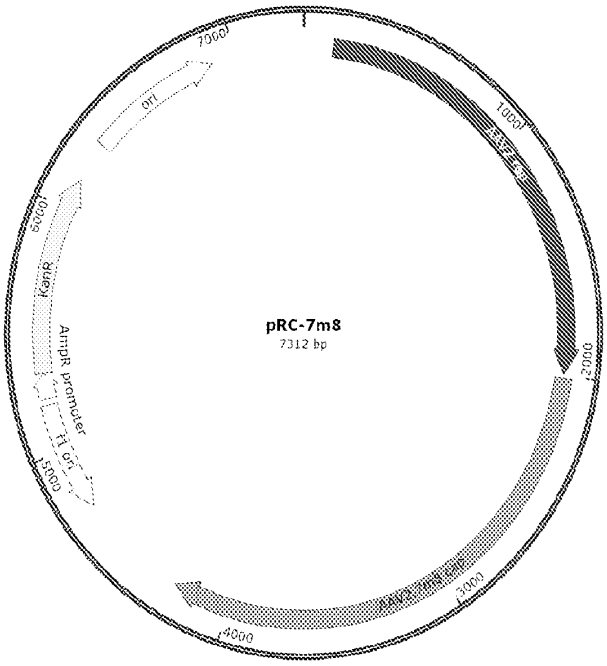


Figure 22


pRC-7m8_bDsp_SV40pA
7434 bp
Base substitution from "CA" to "GT"
SV40 poly(A) signal
Ampr promoter
Ampr
f1 ori
5000
6000
7000
1000
2000
3000
4000