

	160	170	180	190	200
Consensus Identity	DSSSGIGKSGQOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAP-SXVGN	TMA	
1.AAV3B C...	DSSSGVCKSGKOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAP-TSLGS	N	TMA
2.AAV5 Ca...	-KKA	RTEDSKPS	-TSSDA	FAAGPS	QQLQIPAO
3.AAV6 Ca...	DSSSGIGKSGQOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAP-AAVGP	TTMA	
4.AAV8 Ca...	DSSSTGIGKSGQOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAP-SGVGP	NTMA	
5.AAV9 Ca...	DSSSAGIGKSGAOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAP-SGVGS	LTMA	

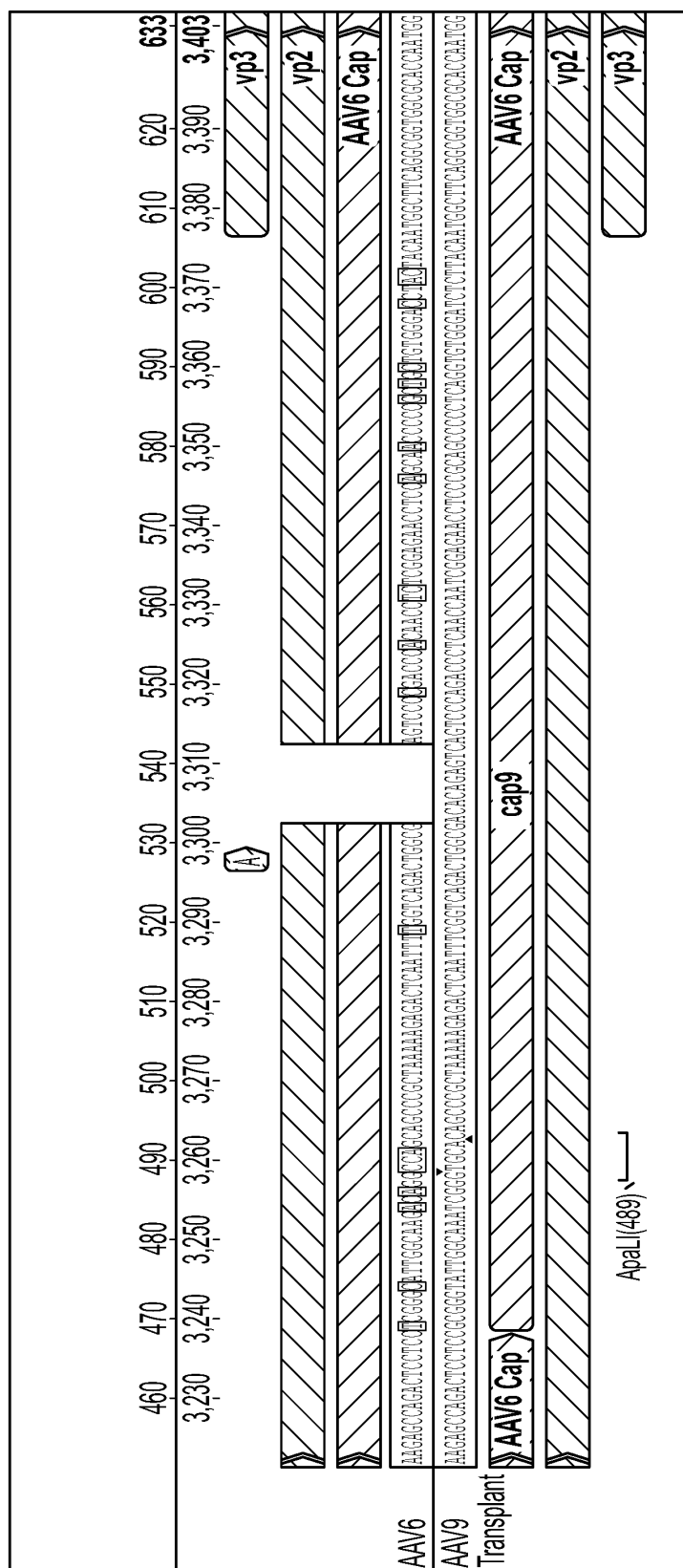
FIG. 1A

	160	165	170	180	190	200
Consensus Identity	DSSSGIGKSGKQOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAPSGVGS	N	TMA	
1.AAV1 VP1	DSSSGIGKSGKQOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAPAVG	P	TTMA	
2.AAV2 VP1	DSSSGTGKAGQOPAKKRRLNFGQTGDS	VDADSVDPQPLGEP	PAAPSG	GLGT	NTMA	
3.AAV3B VP1	DSSSGVCKSGKQOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAPTSLGS	N	TMA	
4.AAV4 VP1	DSSSTGIGKSGKQOPAKKRRLNFGQTGDS	VEDETGAGDGP	-PEGSTSG	AMS-DDSE	MR	
5.AAV6 VP1	DSSSGIGKSGKQOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAPAVG	P	TTMA	
6.AAV7 VP1	DSSSTGIGKSGKQOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAPSVGS	GTVA		
7.AAV8 VP1	DSSSTGIGKSGKQOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAPSGVGP	NTMA		
8.AAV9 VP1	DSSSAGIGKSGAOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAPSGVGS	LTMA		
9.AAV10 VP1	DSSSTGIGKSGKQOPAKKRRLNFGQTGDS	VEDETGAGDGP	-PEGSDT	SAMS-S	DIEMR	
10.AAV11...	DSSSGIGKSGKQOPAKKRRLNFGQTGDS	SVDPQPLGEP	PAAPSGVGS	N	TMA	

FIG. 1B

Position															
Serotype	158	160	163	165	169	171	173	175	176	177	178	179	180	181	182
1	S158 T/A	I160 TV	T163 A/S/K	Q165 K/A	K169R								S180 A/T		
4	T158S /A	I160 TV	K163 A/S	K165 Q/A	K169R	K171R	V173N	E175G	D176 Q/E	E177T	T178G	G179 D/E	A180 S/T	G181 D/E	D182S
6	S158 T/A	I160T /V	T163 A/S/K	Q165 K/A	K169R								S180 A/T		
7	T158 S/A	I160T TV	K163 A/S	Q165 K/A	R169K								S180 A/T		
8	T158 S/A	I160T /V	K163 A/S	Q165 K/A	R169K								S180 A/T		
11	S158 T/A	I160T /V	K163 A/S	K165 Q/A	R169K			E175G	E176Q	D177T	T178G	G179 D/E	A180 S/T	G181 D/E	D182S
Position															
Serotype	183	189	191	192	193	194	195	196	197	198	199	200	201	202	203
1		L189 E/I					T195A		A197 S/T	A198S/ G	V199L		P201T/ S	T202 N/L	
4	G183V	E189 L/I	S191 Q/E	T192P	S193P	G194A		M196P	S197T			D200G	D201T /S	S202 N/L	E203T
6		L189 E/I					T195A		A197 S/T	A198S/ G	V199L		P201T/ S	T202N /L	
7		L189 E/I							S197T	S198G	V199L			G202 N/L	
8		L189 E/I							S197T	G198S	V199L		P201T/ S	N202L	
11	G183V	E189 L/I	S191 Q/E	D192P	T193P	S194A		M196P	S197T			S200G	D201 T/S	I202 N/L	E203T

FIG. 1C



	150	160	170	180	190	200
	150	160	170	180	190	200
AAV6	PQEPDSSGIGKTGQQPAKKRLNFGQTGDDSESVDPDPPQLGEPPTAAVGPTTMA SG					
	AAV6 Cap					
AAV9 Transant	PQEPDSSAGIGKSAQPAKKRLNFGQTGDDTESVDPDPPQLGEPPTAA SGVGS LTTMA SG					
	AAV6 Cap					
	cap9					
Variant 1	PQEPDSSGIGKTGQQPAKKRLNFGQTGDDTESVDPDPPQLGEPPTAA SGVGS LTTMA SG					
	AAV6 Cap					
Variant 2	PQEPDSSGIGKTGQQPAKKRLNFGQTGDDTESVDPDPPQLGEPPTAA SGVGS LTTMA SG					
	AAV6 Cap					
Variant 3	PQEPDSSGIGKTGQQPAKKRLNFGQTGDDSESVDPDPPQLGEPPTAA SGVGS LTTMA SG					
	AAV6 Cap					
Variant 4	PQEPDSSAGIGKSAQPAKKRLNFGQTGDDSESVDPDPPQLGEPPTAAVGPTTMA SG					
	AAV6 Cap					

FIG. 3A

FIG. 3B

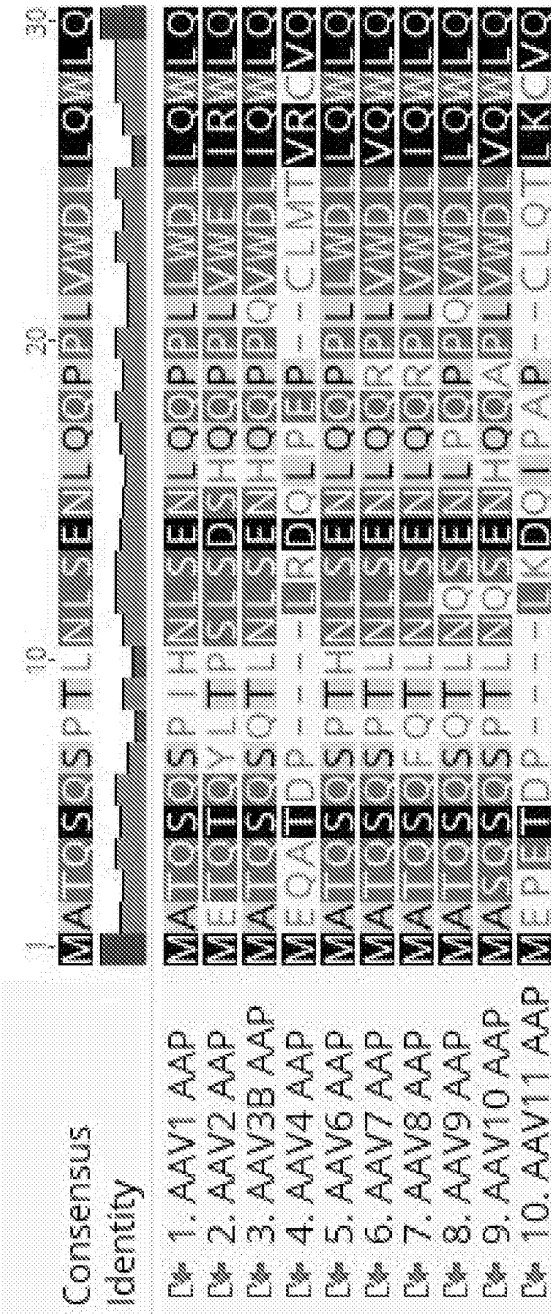


FIG. 4A

Position														
Serotype	2	3	4	5	6	7	8	9	10	11	12	13	14	
1							P8Q	I9T	H10L		L12Q			
2	E2A			T5S		Y7S	L8Q		P10L	S11N	L12Q		D14E	
4	E2A	Q3T	A4Q	T5S	D6Q	P7S					L12Q	R13S	D14E	
6							P8Q		H10L		L12Q			
7							P8Q				L12Q			
8						F7S					L12Q			
10		S3T					P8Q				Q12L			
11	E2A	P3T	E4Q	T5S	D6Q	P7S					L12Q	R13S	D14E	
Position														
Serotype	15	16	17	18	19	21	22	23	24	25	26	27	28	
1		L16H	Q17P			L21Q	L22V				L26I			
2	S15N	H16L	Q17P			L21Q			E24D		I26L	R27Q		
4	Q15N	L16H	P17Q	E18Q			C22V	L23W	M24D	T25L	V26I/L	R27Q	C28W	
6		L16H	Q17P			L21Q	L22V				L26I			
7		L16H	Q17P		R19P	L21Q					V26I/L			
8		L16H	Q17P		R19P	L21Q					I26L			
10		L16H	Q17P		A19P	L21Q					V26I/L			
11	Q15N	I16L/H	P17Q	A18Q			C22V	L23W	Q24D	T25L	L26I	K27Q	C28W	

FIG. 4B

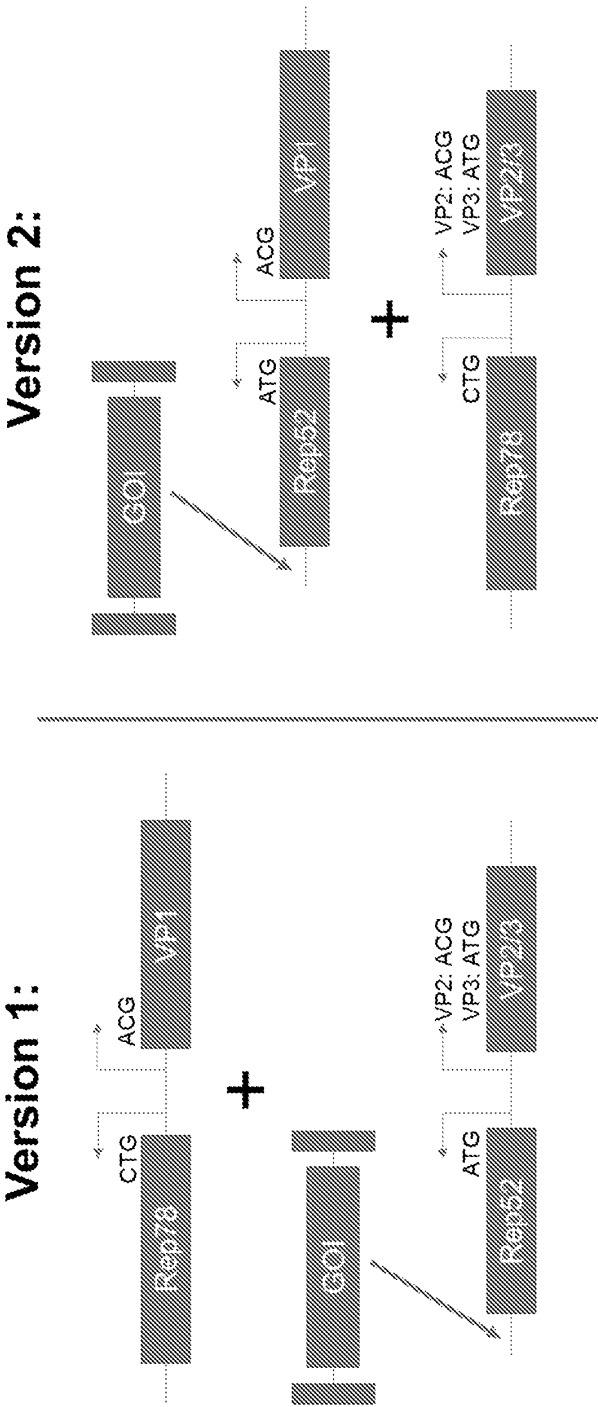


FIG. 5