

FIG. 1A

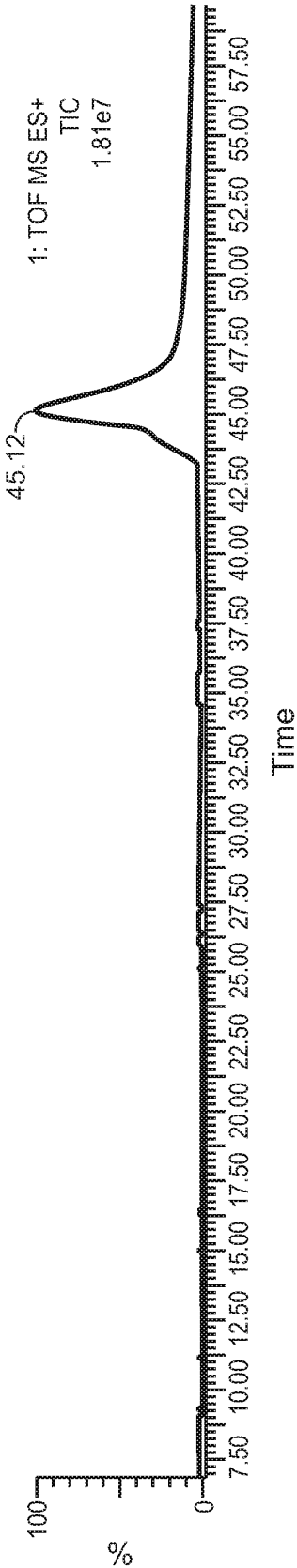


FIG. 1B

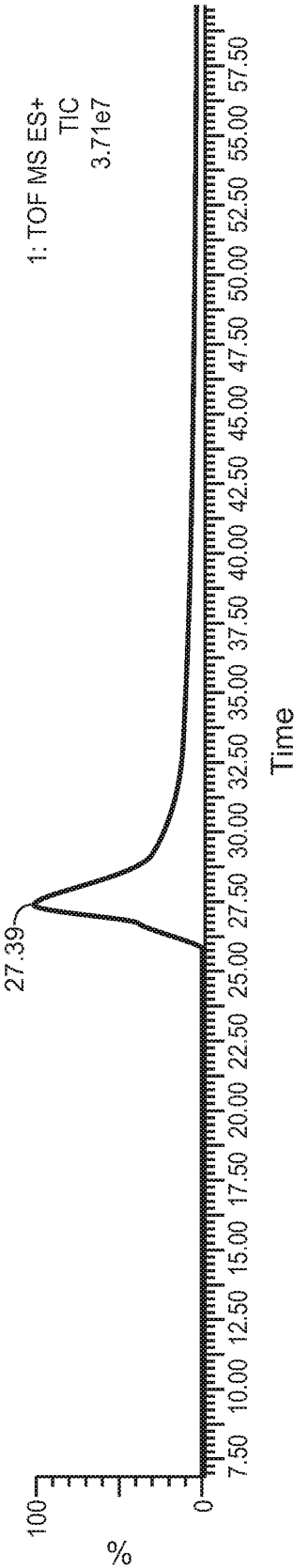


FIG. 1C

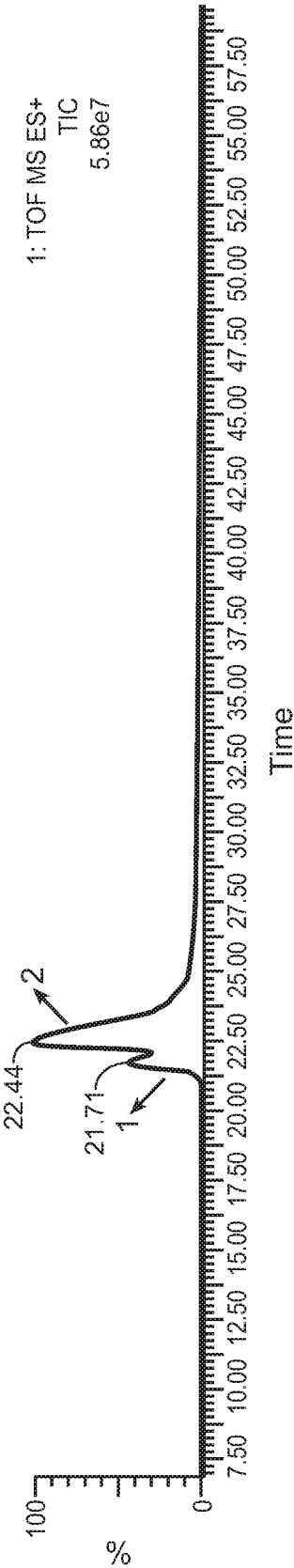


FIG. 1D

1 MAADGYLPDWLEDTLSEGIQWKLKPGPPPKPAERHKDDSRGLVLPGY 50
51 KYLGPFNGLDKGEFVNEADAAALEHDKAYDRQLDSGDNPYLKYNHADAEP 100
101 QERLKEDTSFGGNLGRAVFQAKKRVLEPLGLVEEPVKTPAGKKRPVEHSP 150
151 VEPDSSSGTGKAGQQPARKRLNFGOTGDADSVDPQPLGQPPAAPSGGLGT 200
201 NTMATGSGAPMADNNEGADGVGNSSGNWHCDSTWMGDRVITTSTRTWALP 250
251 TYNHLYKQISSQSGASNDNHYFGYSTPWGYFDFNRFHCHFSPRDWQRLI 300
301 NNNWGFRPKRLNFKLFNIQVKEVTQNDGTTTIANNLTSTVQVFTDSEYQL 350
351 PYVLGSAHQGCLPPFPADVFMVPQYGYLTNNQSQA VGRSSFYCLEYFPS 400
401 QMLRTGNNFTFSYTFEDVPPFHSSYAHSQSLDRLMNPLIDQYLYLSRTNT 450
451 PSGTTTQSRLOFSQAGASDIRDQSRNWLPGPCYRQQRVSKTSADNNNSEY 500
501 SWTGATKYHLNGRDSLVPNGPAMASHKDDEEKFFPQSGVLIFGKQGSEKT 550
551 NVDIEKVMITDEEEI RTNPVATEQYGSVSTNLQRGNRQAATADVNTQGV 600
601 LPGMVWQDRDVYLOGPIWAKIPHTDGHFHPSPLMGGFGLKHPPQILIKN 650
651 TPVPANPSTTFSAAKFASFITQYSTGQVSVEIEWELQENSKRWNPEIQY 700
701 TSNYNKSVNVDFTVDTNGVYSEPRPIGTRYLTRNL 735

FIG. 3

		Section 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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AAVRh10	(1)	MAADG	YLPD	WLE	DLKPGAPKP	KANQQKQDD	GRGLVLPGYK	YLGPFN	GDKG	EPVNA	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AAV10	(1)	MAADG	YLPD	WLE	DLKPGAPKP	KANQQKQDD	GRGLVLPGYK	YLGPFN	GDKG	EPVNA	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AAV8	(1)	MAADG	YLPD	WLE	DLKPGAPKP	KANQQKQDD	GRGLVLPGYK	YLGPFN	GDKG	EPVNA	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AAV7	(1)	MAADG	YLPD	WLE	DLKPGAPKP	KANQQKQNN	GRGLVLPGYK	YLGPFN	GDKG	EPVNA	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AAV1	(1)	MAADG	YLPD	WLE	DLKPGAPKP	KANQQKQDD	GRGLVLPGYK	YLGPFN	GDKG	EPVNA	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AAV6	(1)	MAADG	YLPD	WLE	DLKPGAPKP	KANQQKQDD	GRGLVLPGYK	YLGPFN	GDKG	EPVNA	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AAV2	(1)	MAADG	YLPD	WLE	DLKPGPPPP	KPAERHKDD	SRGLVLPGYK	YLGPFN	GDKG	EPVNE	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AAV3	(1)	MAADG	YLPD	WLE	DLKPGVPDP	KANQQHQDN	RRGLVLPGYK	YLGPFN	GDKG	EPVNE	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AAV11	(1)	MAADG	YLPD	WLE	DLKPGAPKP	KANQQKQDD	GRGLVLPGYK	YLGPFN	GDKG	EPVNA	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AAV12	(1)	MAADG	YLPD	WLE	DLKPGAPKP	KANQQHQDN	RRGLVLPGYK	YLGPFN	GDKG	EPVNE	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AAV4	(1)	-MTD	G	YLPD	WLE	DLKPGAPKP	KANQQHQDN	RRGLVLPGYK	YLGPFN	GDKG	EPVNA	ADA	AAALEH	D	KAYD	Q	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
AAV5	(1)	MSFV	D	E	P	P	D	WLE	E	V	G	-E	G	L	R	E	F	L	G	L	E	A	G	P	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K	P	K

FIG. 5A

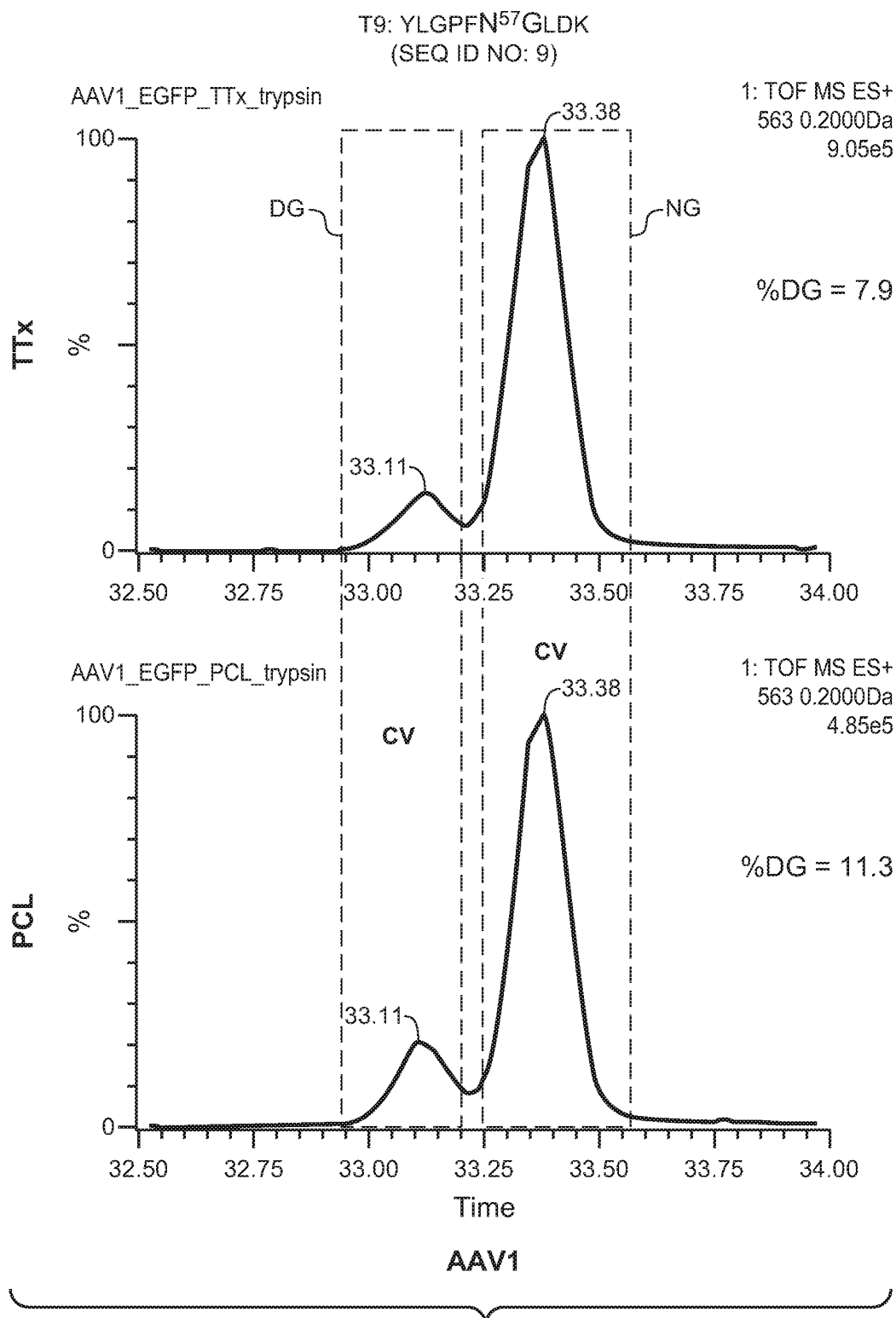
		Section 2									
		VP2									
		140									
		150									
		164									
AAV/Rh10	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV10	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV8	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV7	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV1	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV6	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV2	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV3	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV11	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV12	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV4	(82)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV5	(82)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
AAV9	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP
Consensus	(83)	LKAGDNPYL	YNHADA	EFQERLQED	TSFGGNL	GRAVFQ	AKKRVLEP	IGLVEE	EGAKTAP	CGKKRP	VEPSP

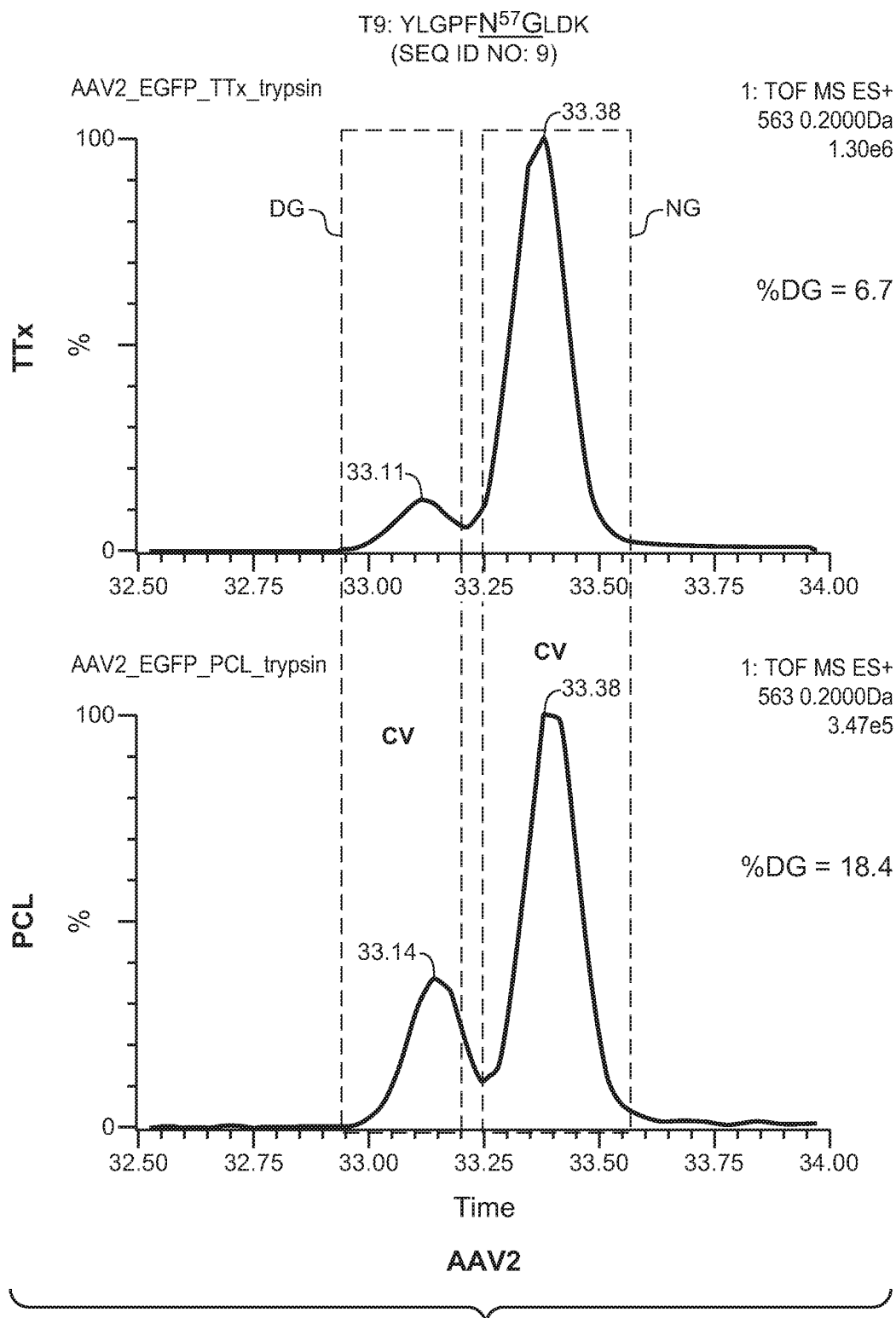
FIG. 5B

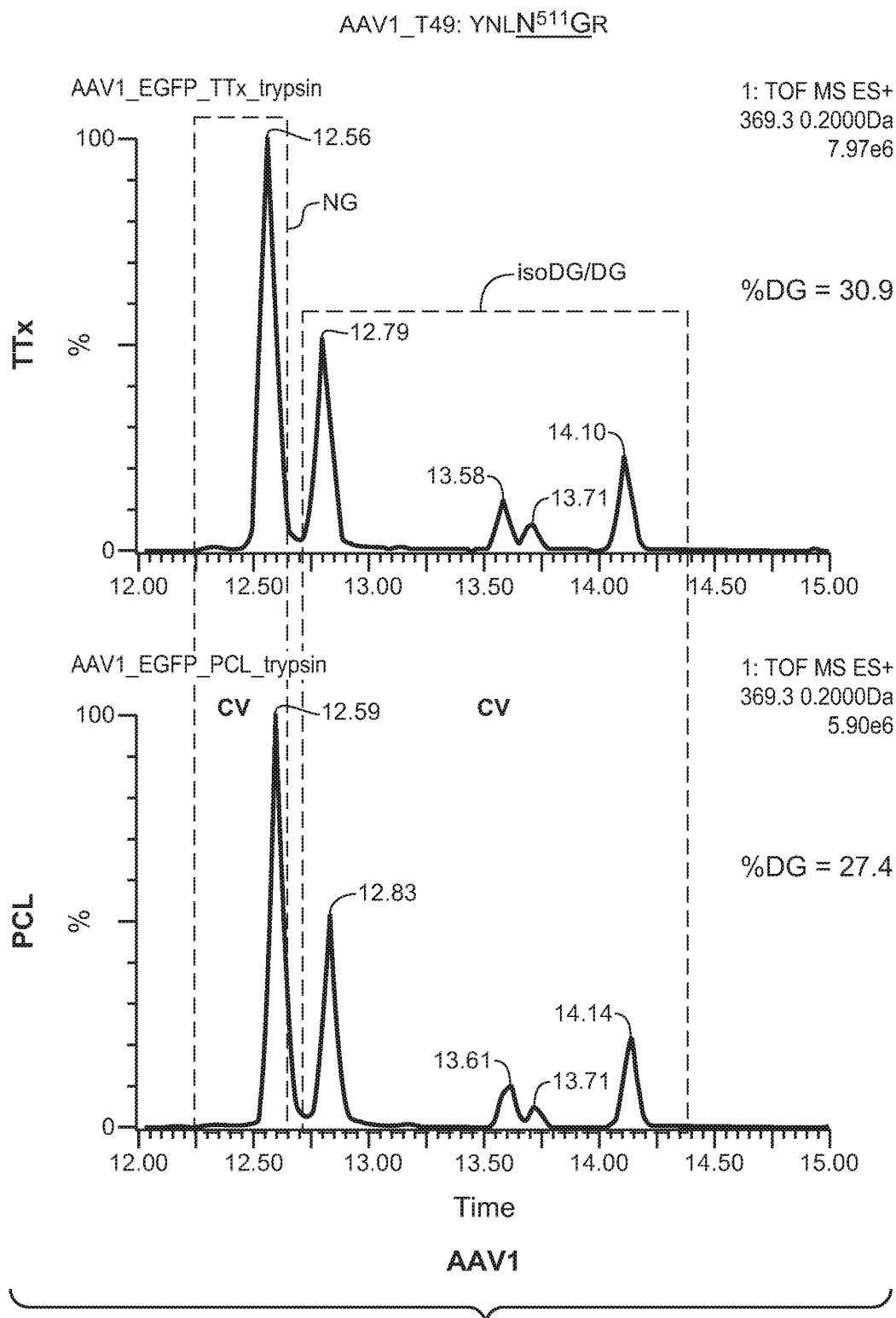
Section 3

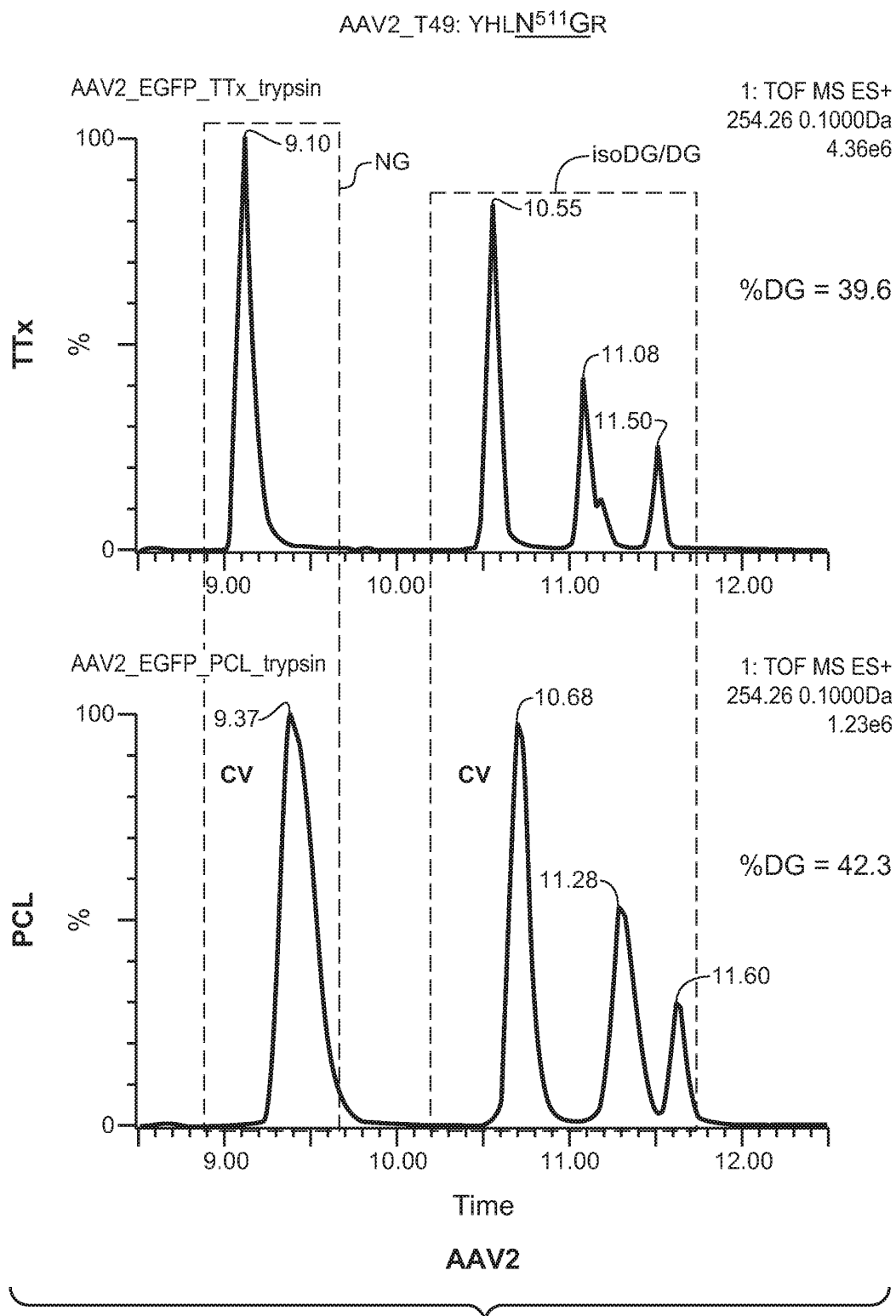
VP3																			
										210	220	230	240	250	260	270	280	290	300
AAV/Rh10 (163)	KGQ	---	---	---	---	---	---	---	---	SGTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV10 (163)	KGQ	---	---	---	---	---	---	---	---	SGTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV8 (163)	KGQ	---	---	---	---	---	---	---	---	NTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV7 (163)	KGQ	---	---	---	---	---	---	---	---	NTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV1 (162)	TGQ	---	---	---	---	---	---	---	---	PTTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV6 (162)	TGQ	---	---	---	---	---	---	---	---	PTTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV2 (162)	AGQ	---	---	---	---	---	---	---	---	NTTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV3 (162)	SGK	---	---	---	---	---	---	---	---	NTTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV11 (161)	KCK	---	---	---	---	---	---	---	---	NTTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV12 (165)	KCK	---	---	---	---	---	---	---	---	NTTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV4 (161)	KCK	---	---	---	---	---	---	---	---	NTTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV5 (159)	DSK	---	---	---	---	---	---	---	---	NTTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
AAV9 (162)	SCA	---	---	---	---	---	---	---	---	NTTMAA	SGGAPNADNNE	CGDGVGS	SSG	WHCDSTWLGDR					
Consensus (165)	KGQ	---	---	---	---	---	---	---	---	TMAA	SGGAPNADNNE	GADGVGNASGN	WHCDSTWLGDR						

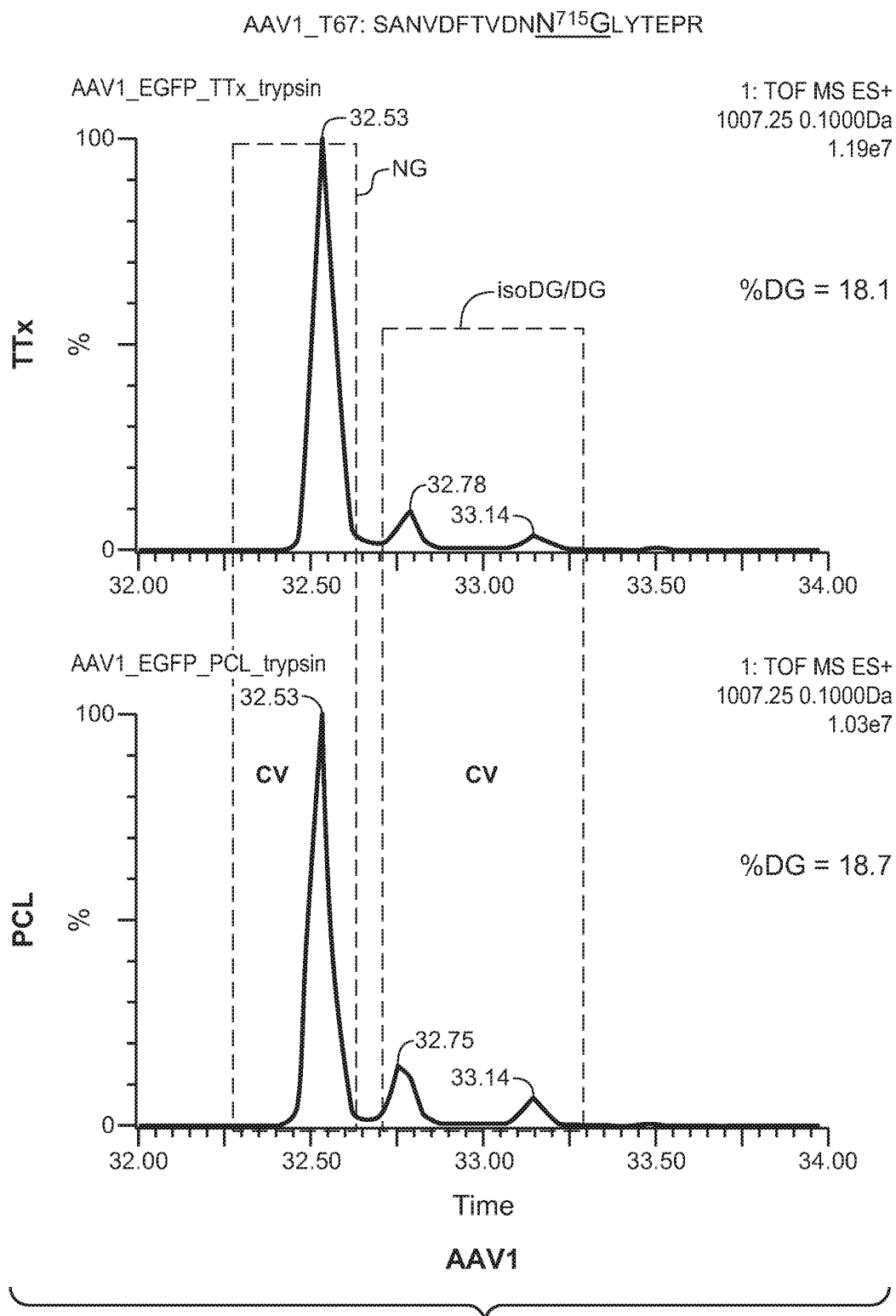
FIG. 5C

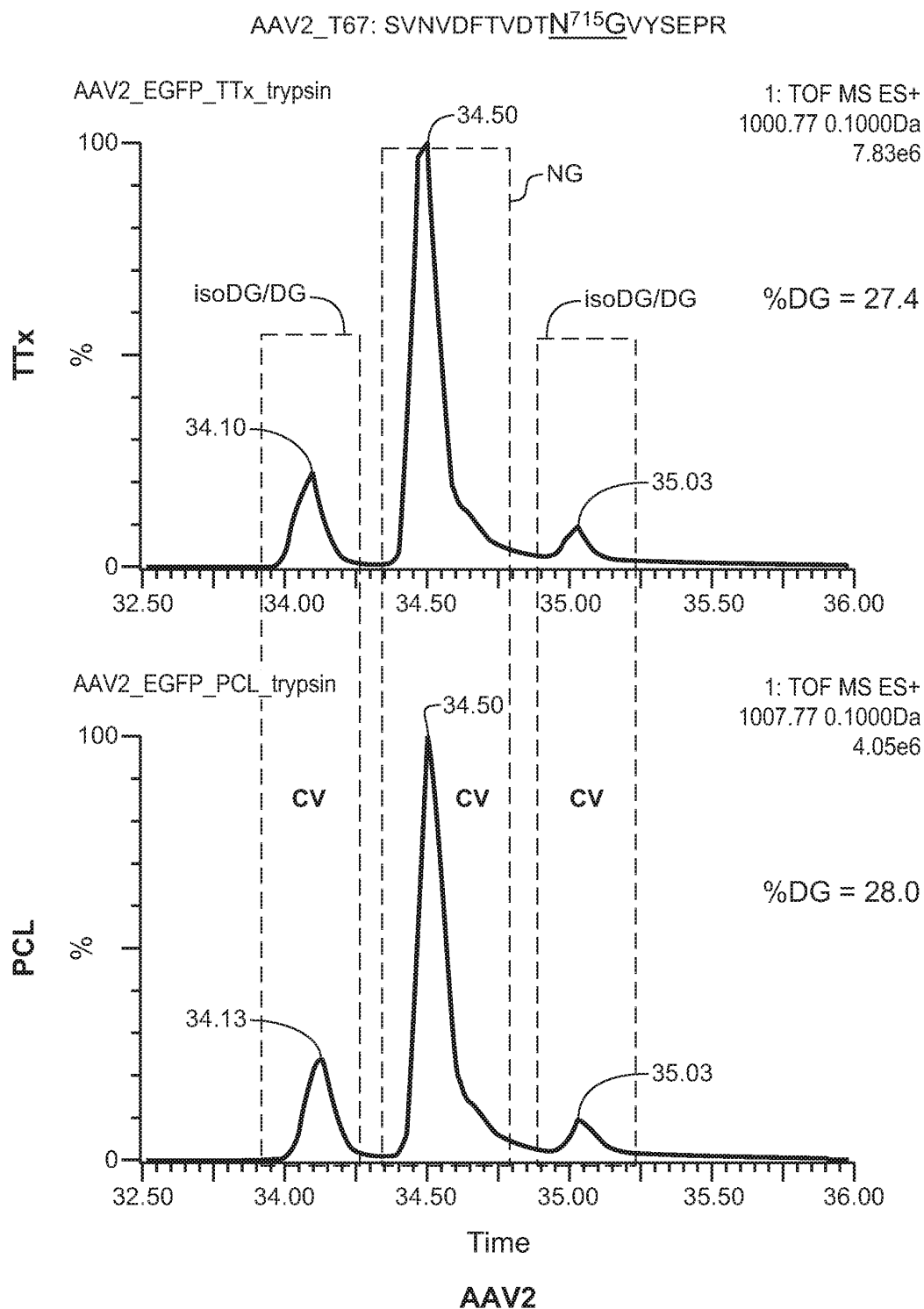
**FIG. 6A**

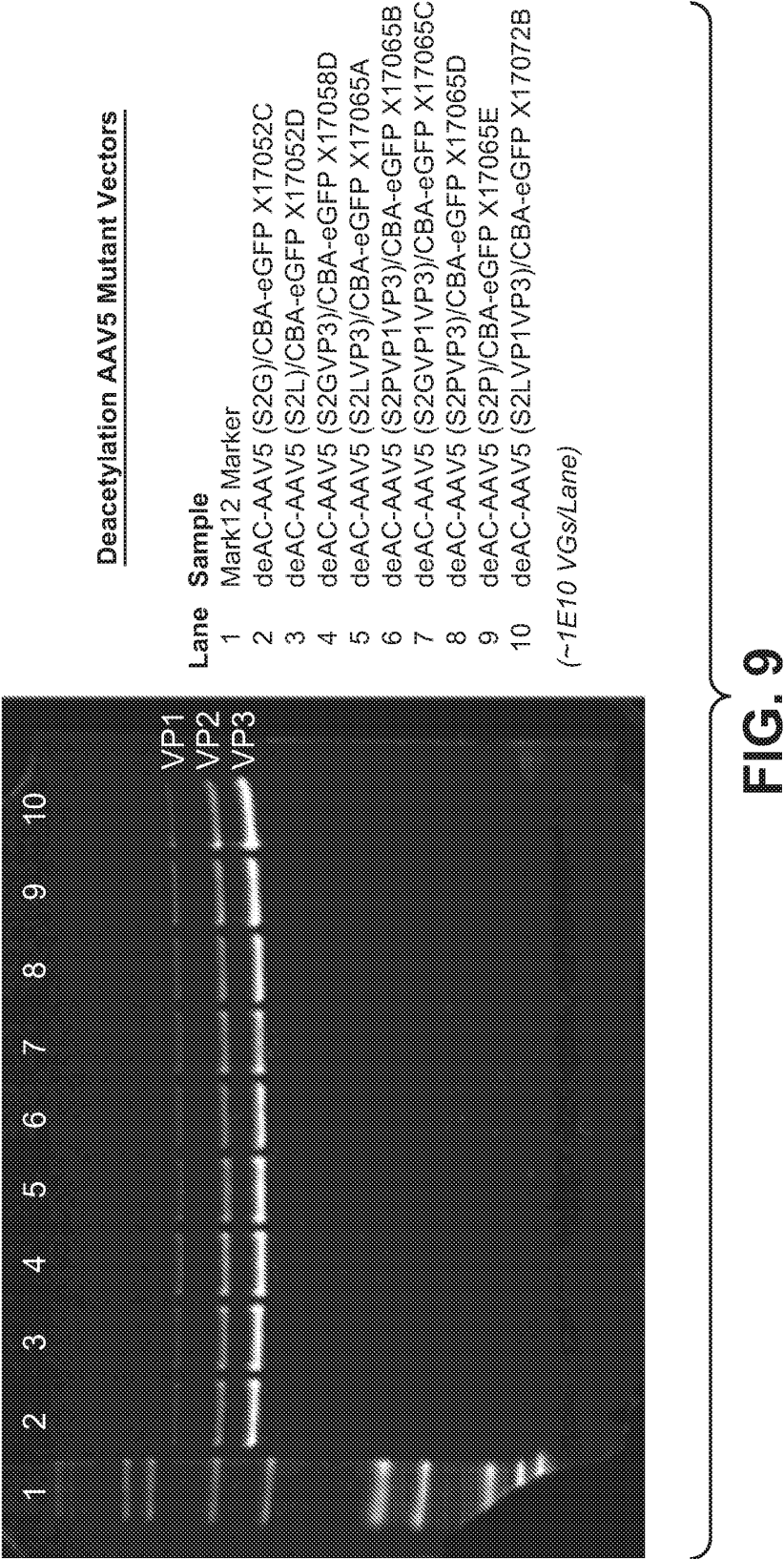
**FIG. 6B**

**FIG. 7A**

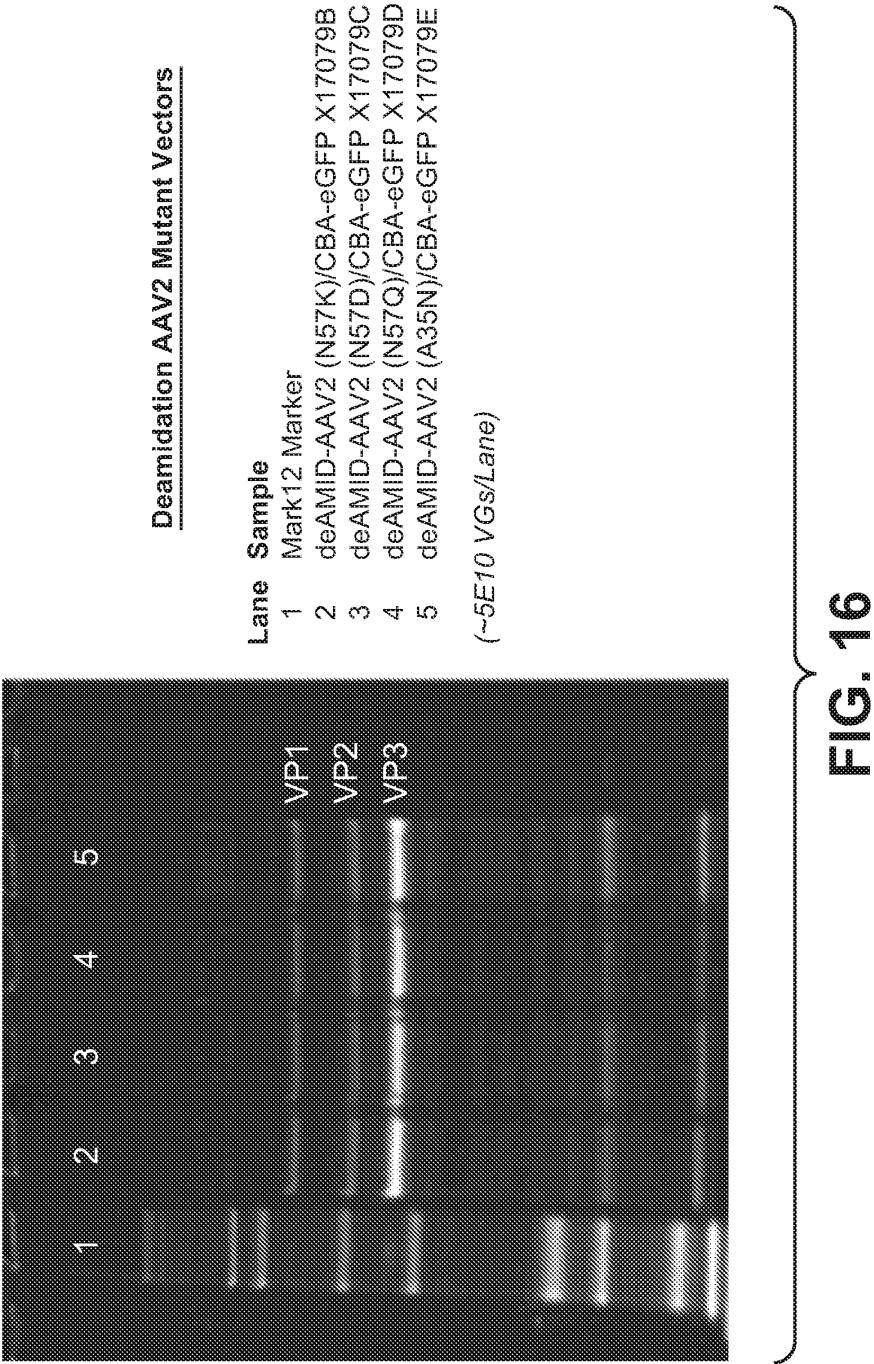
**FIG. 7B**

**FIG. 8A**

**FIG. 8B**



3105



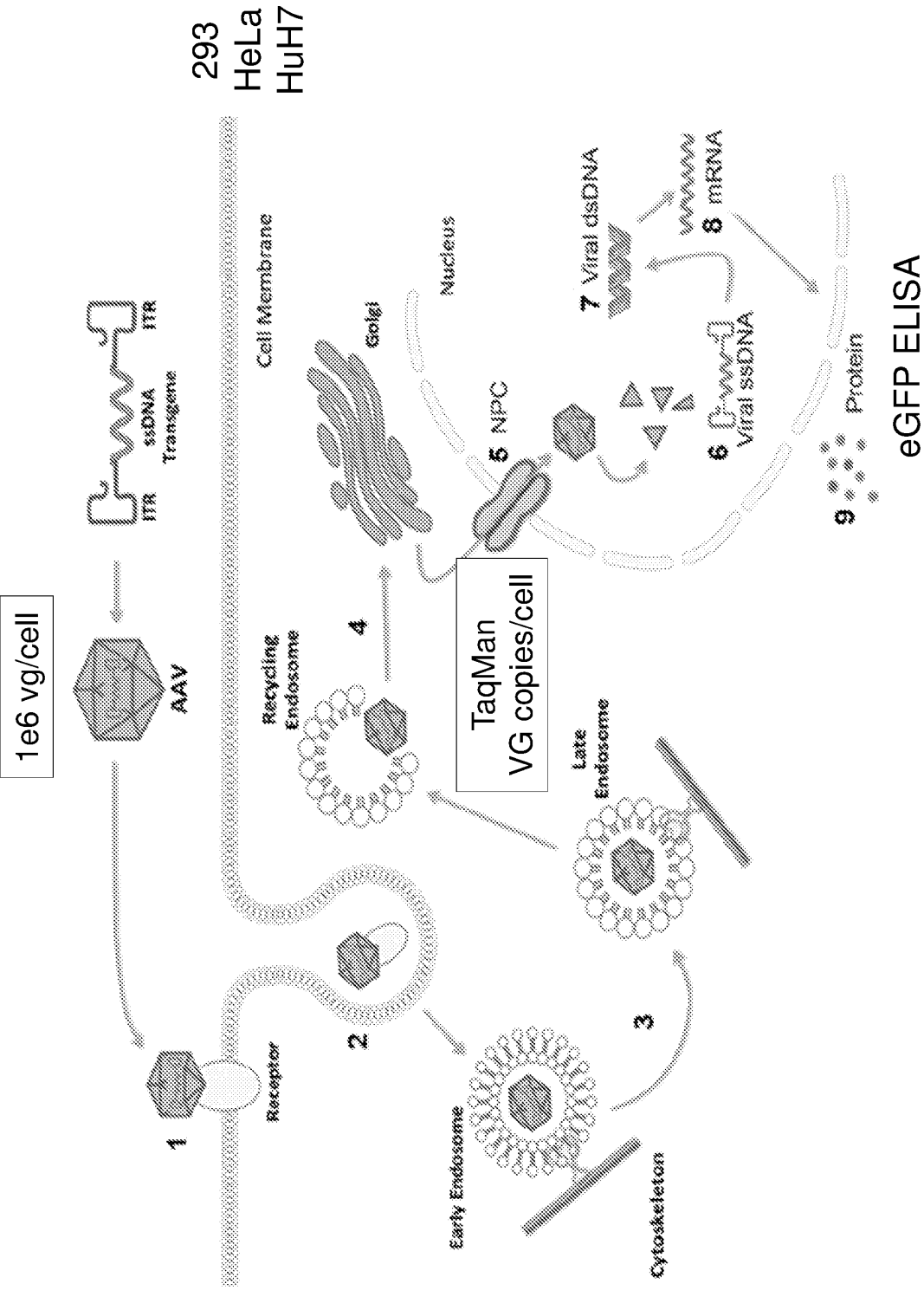


FIG. 17

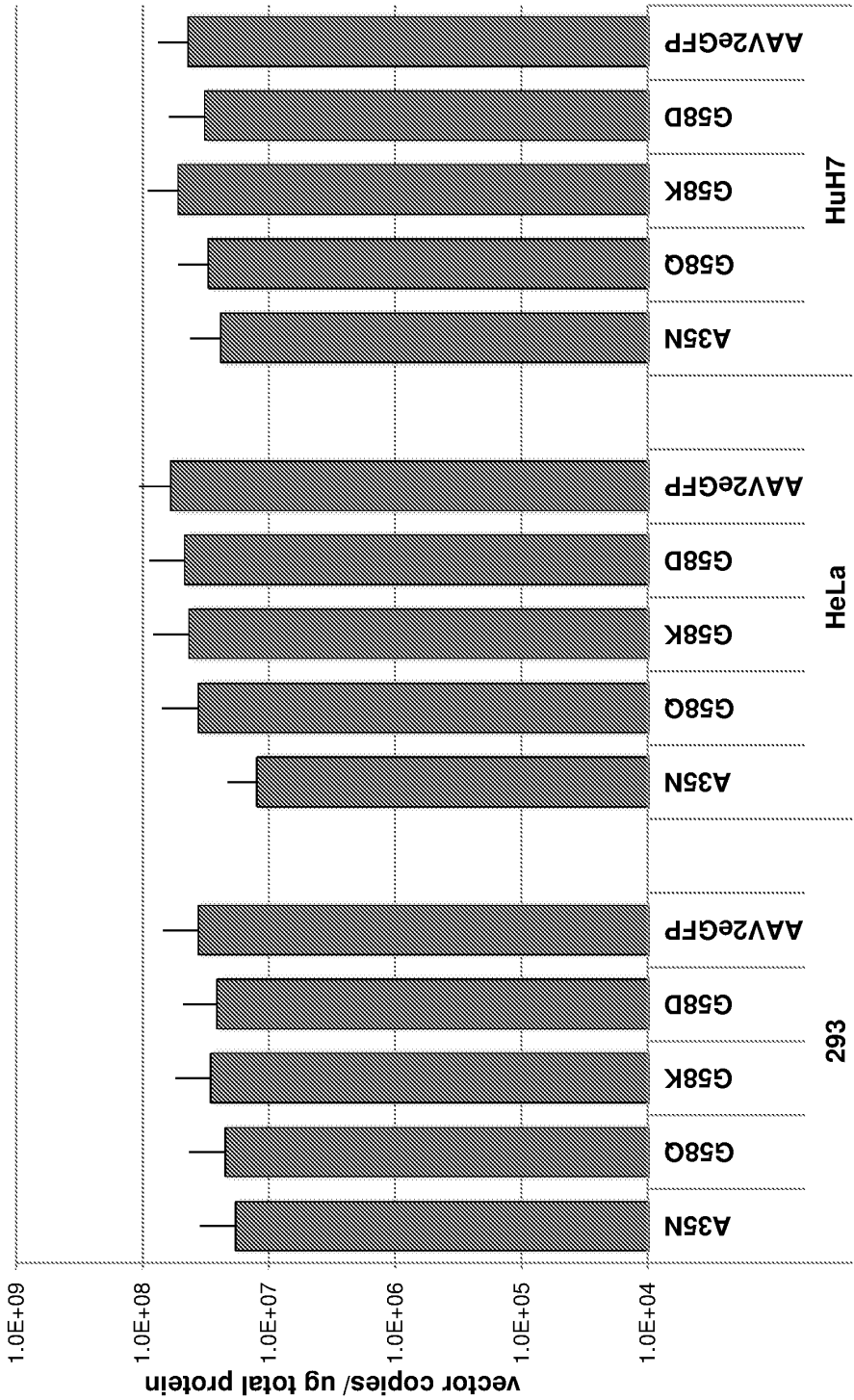


FIG. 18

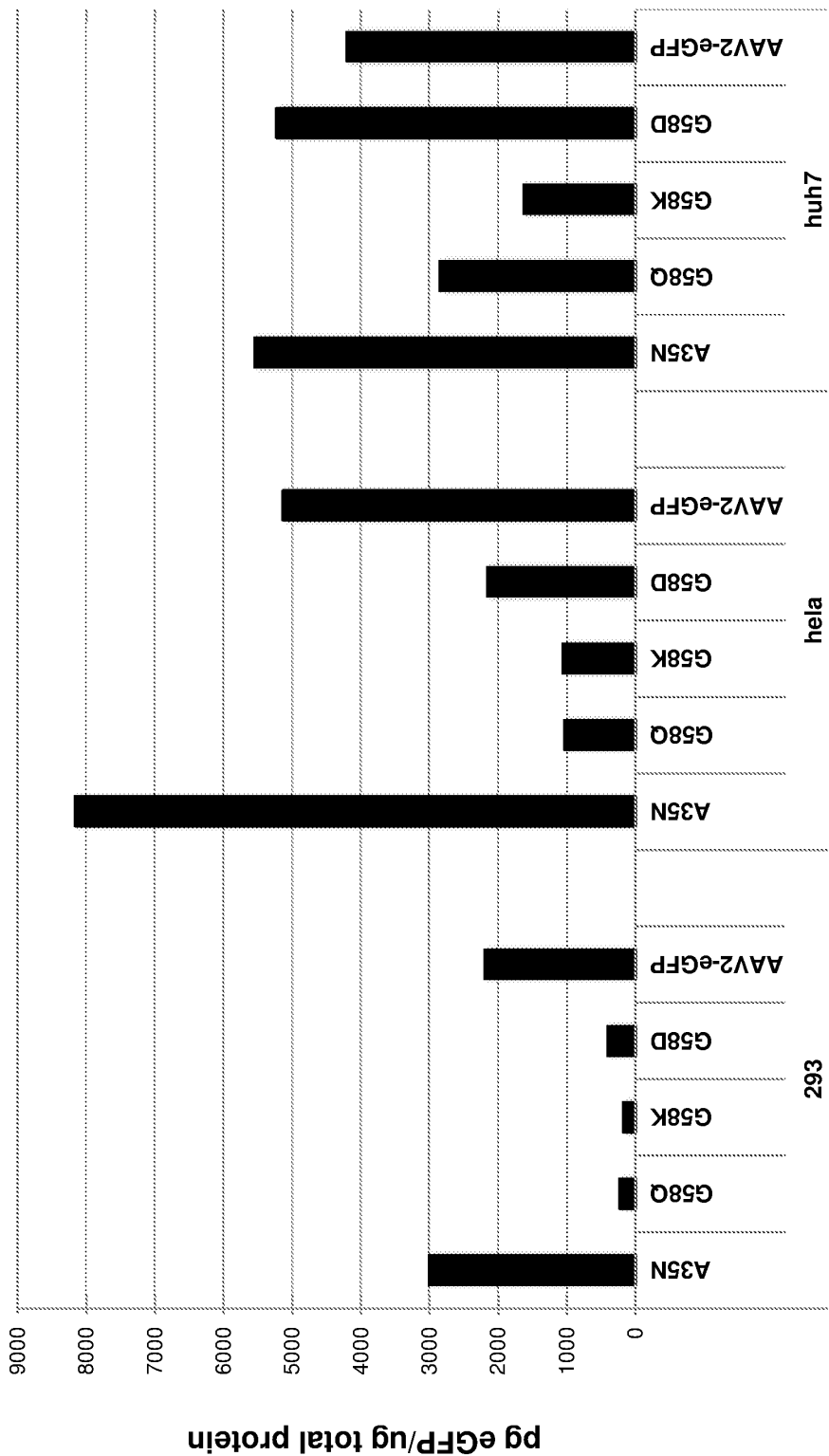


FIG. 19