

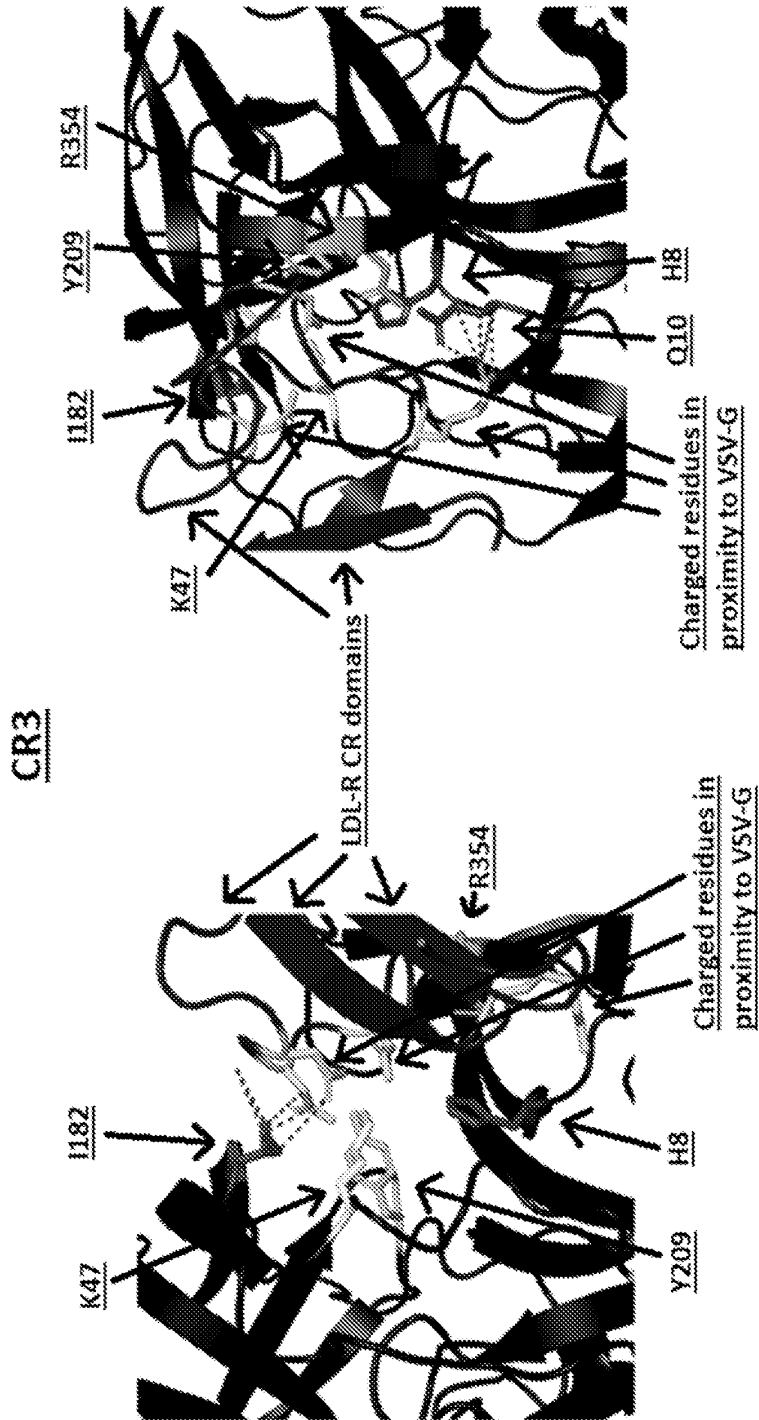


FIG. 1A

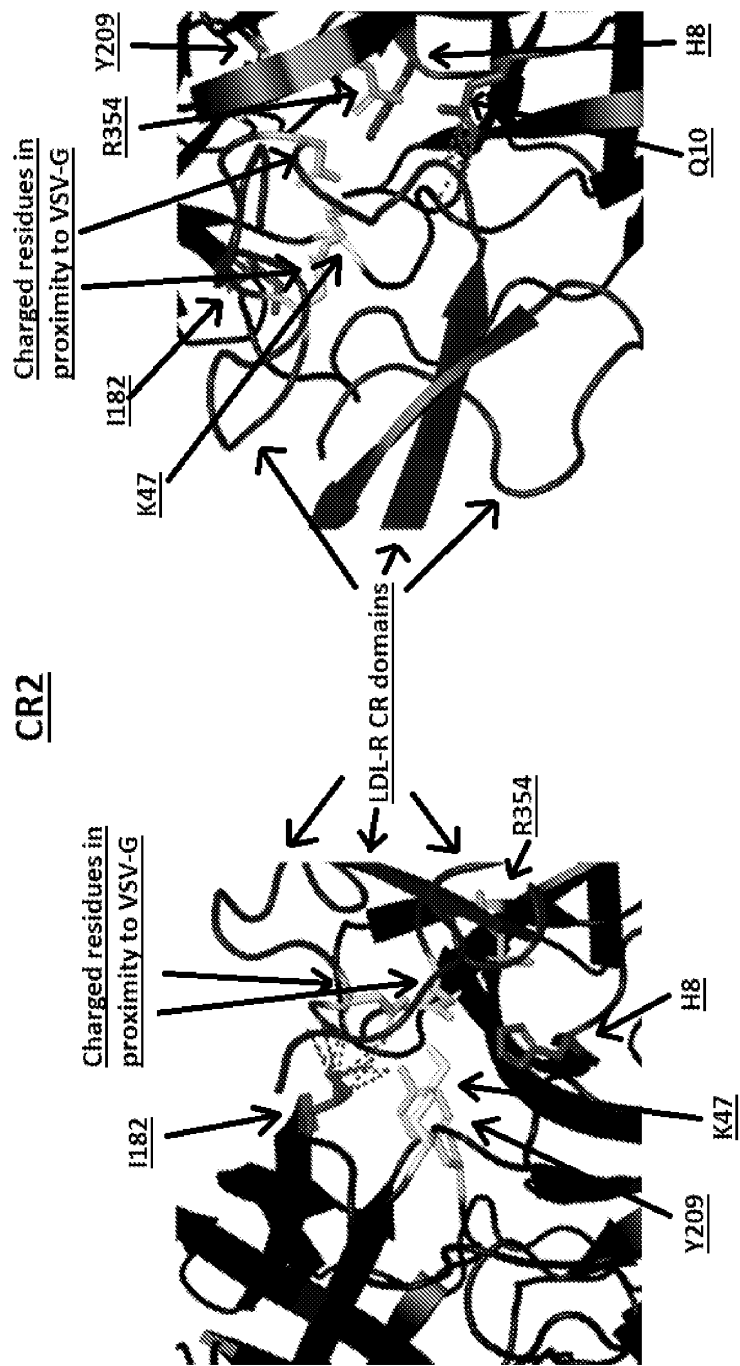


FIG. 1B

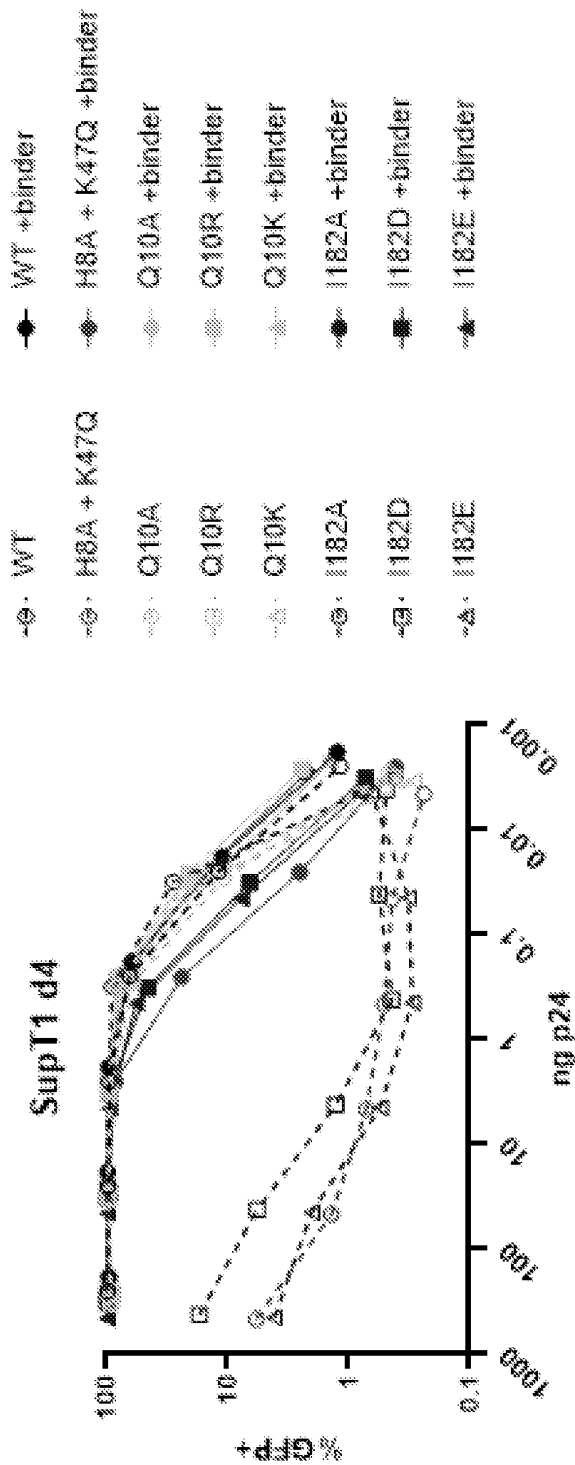


FIG. 2A

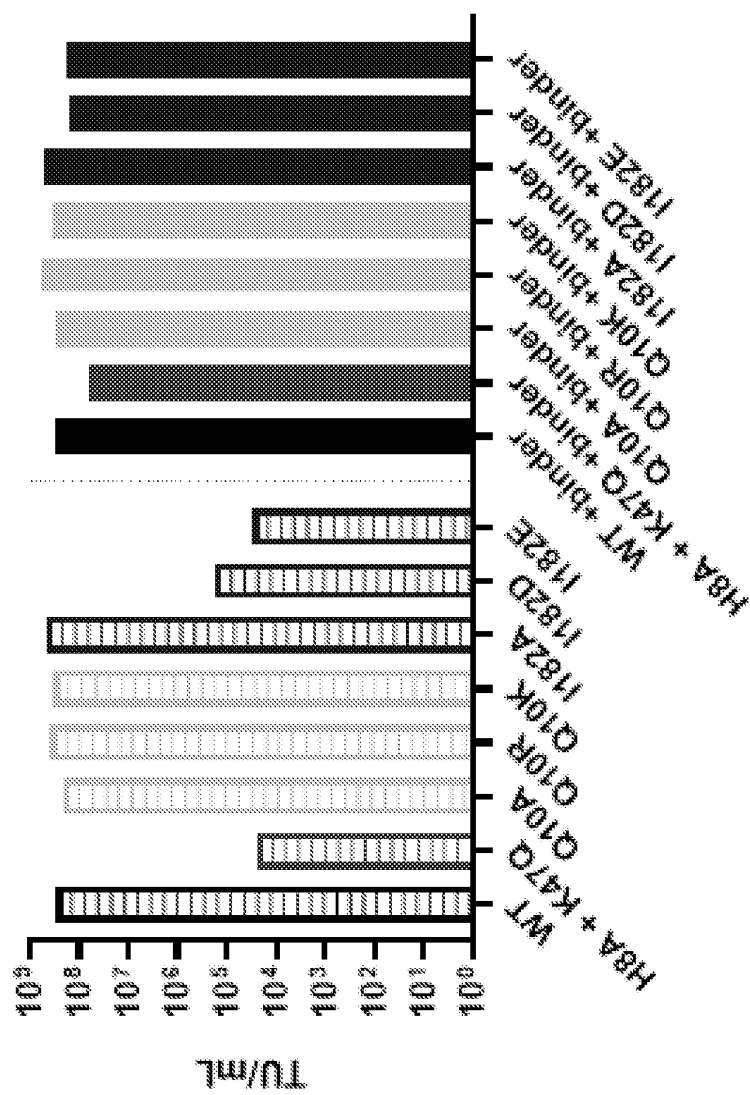


FIG. 2B

USEQ_ID_NO_2	KFTIVFEHNQKGNWKNVPSNYHYCESSSDLNWNHNDLIGTALQVKNEPKSHKAIQADGWMCH	60
USEQ_ID_NO_11	KIEIVFFOHTTGDMKWVPHEHYNICETSAKDKNHGTOGTGPVELTMKEGLTHHQVDGMCH	60
USEQ_ID_NO_13	KFTIVFEHHQKGNWKNVSPSTYHYCESSSDQNWHNDLTGVSLHVKIPKSHKAIQADGWMCH	60
USEQ_ID_NO_15	KITISFEOQLKGIMRPPVKPGYNICYETSADKNLHGDLIDIGRLRAPSKFKGISADGWMCH	60
USEQ_ID_NO_17	KFTIVFEQSOKGIMKDVPPNYRYCESADQNWHGDLLGVNIRAKMPKVHKAIKADGWMCH	60
USEQ_ID_NO_19	KFSIVFEQSOKGNWKNVSPSYHYCESSDQNWHNDLLGITMKVNMKETHKAIAQADGWMCH	60
USEQ_ID_NO_21	KFTIVFEHNQKGNWKNVPFANYQYCESSSDLNWHNGLIQTSLQVKMPEKSHKAIQADGWMCH	60
	*: * **: ,*: *: ** *:***;*:** * *, * :*, ** , ***,**:***	
USEQ_ID_NO_2	ASKWVTTCDFRWYGPKYITHSIRSSETSEVEQCKESIEQTKQGTWLNPGFEFPQSCGYATVT	120
USEQ_ID_NO_11	SALMMVTTCDFRWYGPKYITHSIHNEEPTDYQCLEAIKAYKDGVSFNPGFEFPQSCGYATVT	120
USEQ_ID_NO_13	AAKWVTTCDFRWYGPKYITHSIHSMSTPLEQCKTSIEQTKQGVWINPGFEFPQSCGYATVT	120
USEQ_ID_NO_15	AARMITTCDFRWYGPKYITHSIHSFRPNSDCKREAIRLTNEGNNWINPGFEFPQSCGYASVT	120
USEQ_ID_NO_17	AAKWVTTCDYRWYGEQYITHSIHSIFETKAQCEESIQTKEGVWINPGFEFPKNCGYASVS	120
USEQ_ID_NO_19	AAKWITTCDFRWYGPKYITHSIHSIQTSEQCKESIKQTKQGTWNSPGFEFPQNCGYATVT	120
USEQ_ID_NO_21	AAKWVTTCDFRWYGPKYVTHSIKSMTPIVDQCKESIAQTKQGTWLNPGFEFPQSCGYASVT	120
	::*:*****::*:***;*,*: ** **:*, ** **:*****:*****:***::*	

FIG. 3

SEQ_ID_NO_2	DAEAVIVQVTPHHVLVDEYTGEMVDSQFINGKCSNYICPTVHNSTTWHSDYKVGKGLCSN	180
SEQ_ID_NO_11	DAEAHIVTVTPHSVKVDEYTGEMIDPHFIGRCCKGQICETVHNSTKWFSSDSESVCSQL	180
SEQ_ID_NO_13	DAEVVVQATPHHVLVDEYTGEMIDSQLVGKCSKEVCQTVHNSTVWHADYKITGLCESN	180
SEQ_ID_NO_15	DSESVVTVTVTHQVILVDEYSSGWIIDSQPPGSCCTSPICDTVHNSTIWHADHTIDSTCTQF	180
SEQ_ID_NO_17	DAESIIVQATAHSMVMIDEYSGMILDSQFFTGRCCTGCTCETIHNSTLWYADYQVTGLCDSA	180
SEQ_ID_NO_19	DSVAVVQATPHHVLVDEYTGEMIDSQFPNGKCEETECEETVHNSTVWYSYDKVTGLCDAT	180
SEQ_ID_NO_21	DAEAVIVKATPHQVLVDEYTGEMVDSQFPTGCKCNKDICTVHNSTTWHSDYKVTGLCTAN	180
	*: * * * * :***:*.*:* * * * * :*** * * * * .:*. .:*	
SEQ_ID_NO_2	LI S MDITFFSE D GELSSLGKEGTGFRSNYFAYETGGKACKMQYCKHMGVRLP S GVWFE E MA	240
SEQ_ID_NO_11	FTLVG S TFFESDSEIITSMGLPETGIRSNYFFPVVSTEGICMPECRKPGYKLN D LWEQIT	240
SEQ_ID_NO_13	I A SV D ITFFSMDGQRTSIGKPN T GFRSNHFAVESGKACRMQYCTQW G IRIPSGVWFF E IV	240
SEQ_ID_NO_15	FVAM A VILFTESCKFE E FKPN S GIRSNYFFYESLKNVQ Q MD E CKK G FKL P SGVWFE E IE	240
SEQ_ID_NO_17	LVST E VTFYSE D GLMTSIGRQNTGYRSNYFFYEKGAACRMKYCTHEGIRL P SGVWFE M V	240
SEQ_ID_NO_19	LVD F EITFFSE D GK K ESIGKPN T GFRSNYFAYEKGD K VCKMNYCKHAGVRL P SGVWFE F V	240
SEQ_ID_NO_21	LI S MDITFFSE D GKLTSLEKGTGFRSNYFAYENGDKACRMQYCKHMGVRLP S GVWFE E MA	240
	; .: : : . . . : * * * * : * * * * : * * * * : * * * * : * * * * : * * * * :	

FIG. 3 (Continued)

SEQ_ID_NO_2	DKDLFA-----AAREPECPESSISAPSQTSVDVSLIQDVERILDVSLCQETWSKIRAGLP	296
SEQ_ID_NO_11	DEDLKTVRDLPHIKDCDLSSSVTPGEHATDLSLISDVERILDVSLCQETWSKIRAGEF	300
SEQ_ID_NO_13	DKDLFQ-----AAKLPECPRGSSISAPSQTSVDVSLIQDVERILDVSLCQETWSKIRAKLP	296
SEQ_ID_NO_15	DAEKSHKAQVEIKIKRCPHGAVISAPNQNAADINLIMDVERILDVSLCQATWSKIQNKEA	300
SEQ_ID_NO_17	DKELLE-----SVQMPECFAGLTISAPTQTSVDVSLILDVERMLDVSLCQETWSKVHSGLP	296
SEQ_ID_NO_19	DQDVYA-----AAKLPECFVGATISAPTQTSVDVSLILDVERILDVSLCQETWSKIRSKQP	296
SEQ_ID_NO_21	DKDAIYN-----DAKFPDCPEGSSIAAPSQTSVDVSLIQDVERILDVSLCQETWSKIRAHLP	296
	* : : : * : * : * : * : * : * : * : * : * : * : *	
SEQ_ID_NO_2	ISEVDLSYLAPEKNEPGTGPAFTIINGTLKYFFETRYIRVDIAAPILSEMVGMIISGTTTEREL	356
SEQ_ID_NO_11	ITEVDLSYLGFKNEPGAGEVFTTIINGSLHYFMASKYLRLVELESEFVIERMEGKVAGTRIVRQL	360
SEQ_ID_NO_13	VSPVDLSVTAPKNEPGSGPAFTIINGTLKYFFETRYIRVDISNPTIIPRMVGTMSGTTTEREL	356
SEQ_ID_NO_15	LTPIDISYLGKNEPGGPAFTIINGTLHYFETRYIRVDIAGPVTKELTGFVSGTSTSRVL	360
SEQ_ID_NO_17	ISEVDLGYIAPKNEPGAGPAFTIVNGTLKYFETRYIRLRIDIEGPVLKMTGKVSGETPIKREL	356
SEQ_ID_NO_19	VSPVDLSYLAPEKNEPGTGPAFTIINGTLKYFFETRYIRIDIDNPILISKMVGKISGSQIEREL	356
SEQ_ID_NO_21	ISEVDLSYLSPEKNEPGTGPAFTIINGTLKYFFETRYIRVDIAGPIIPQMRGVISGTTTEREL	356
	: : * : * : * : * : * : * : * : * : * : * : * : * : * : * : *	

FIG. 3 (Continued)

9/38

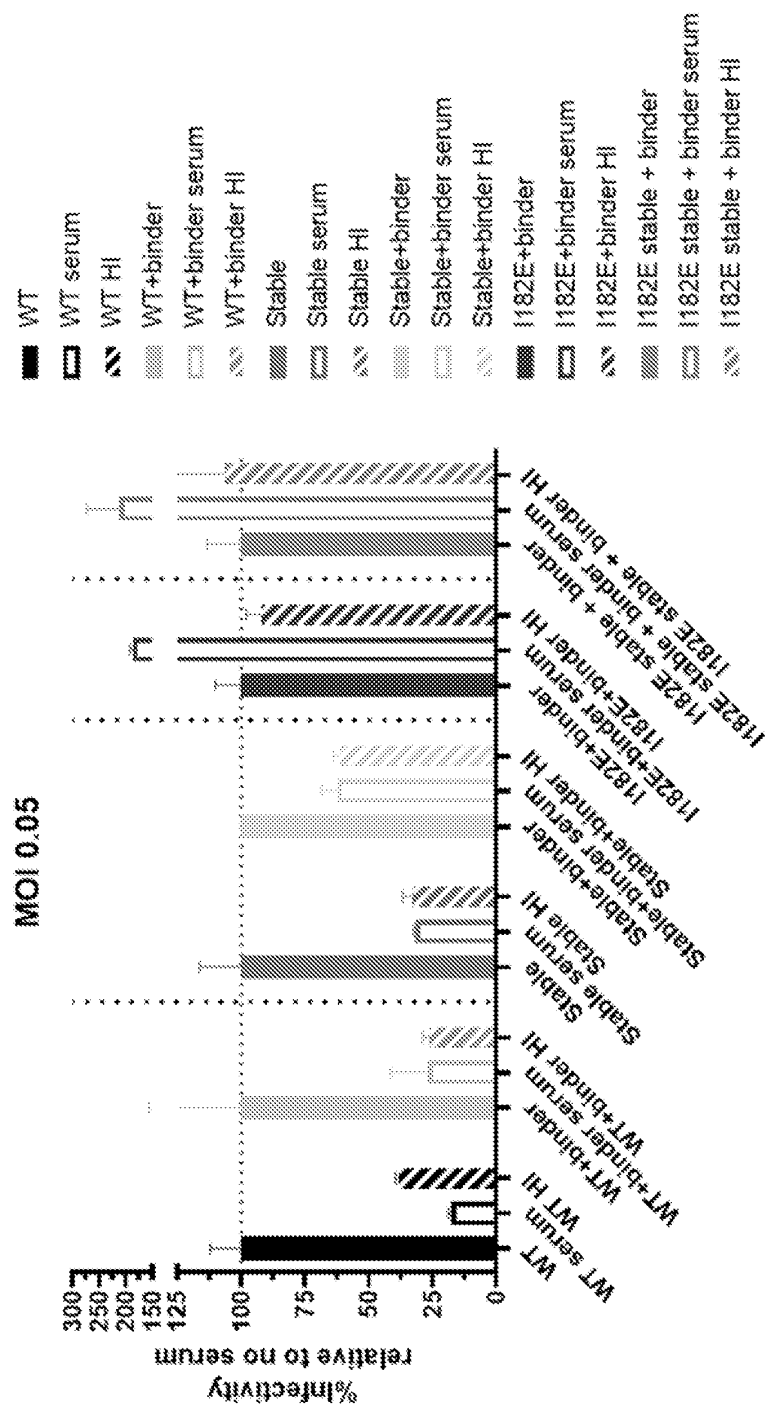


FIG. 4

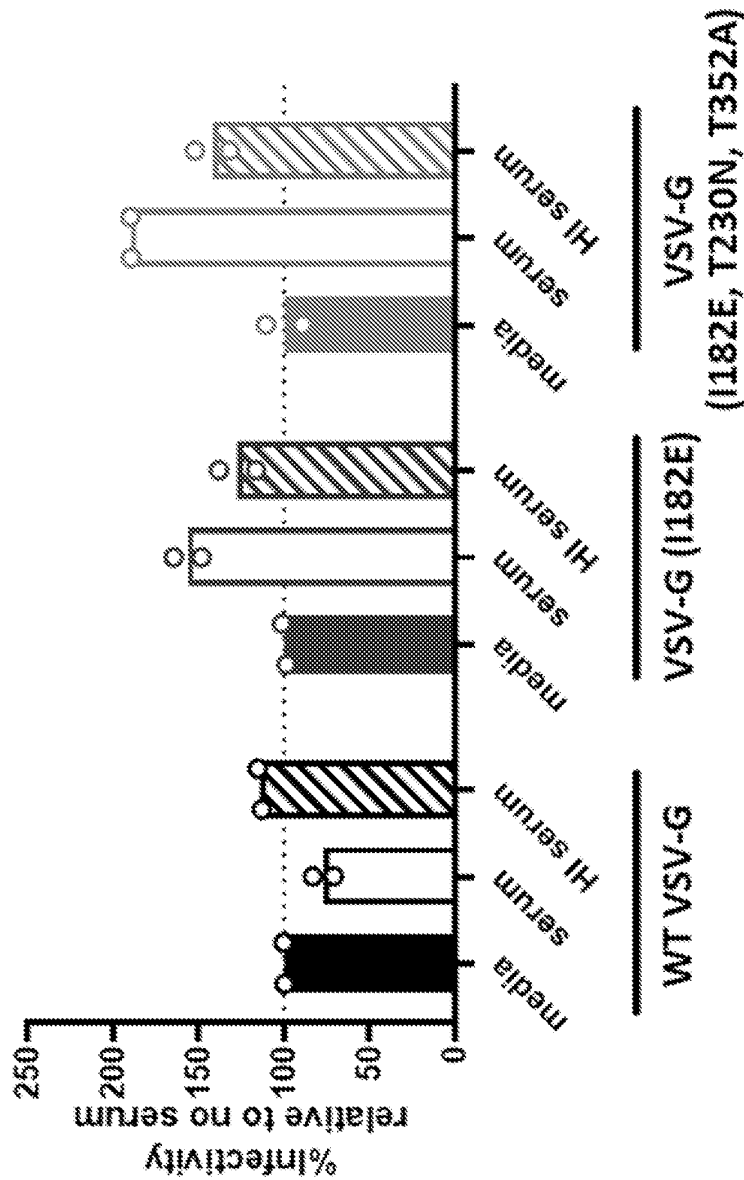


FIG. 5

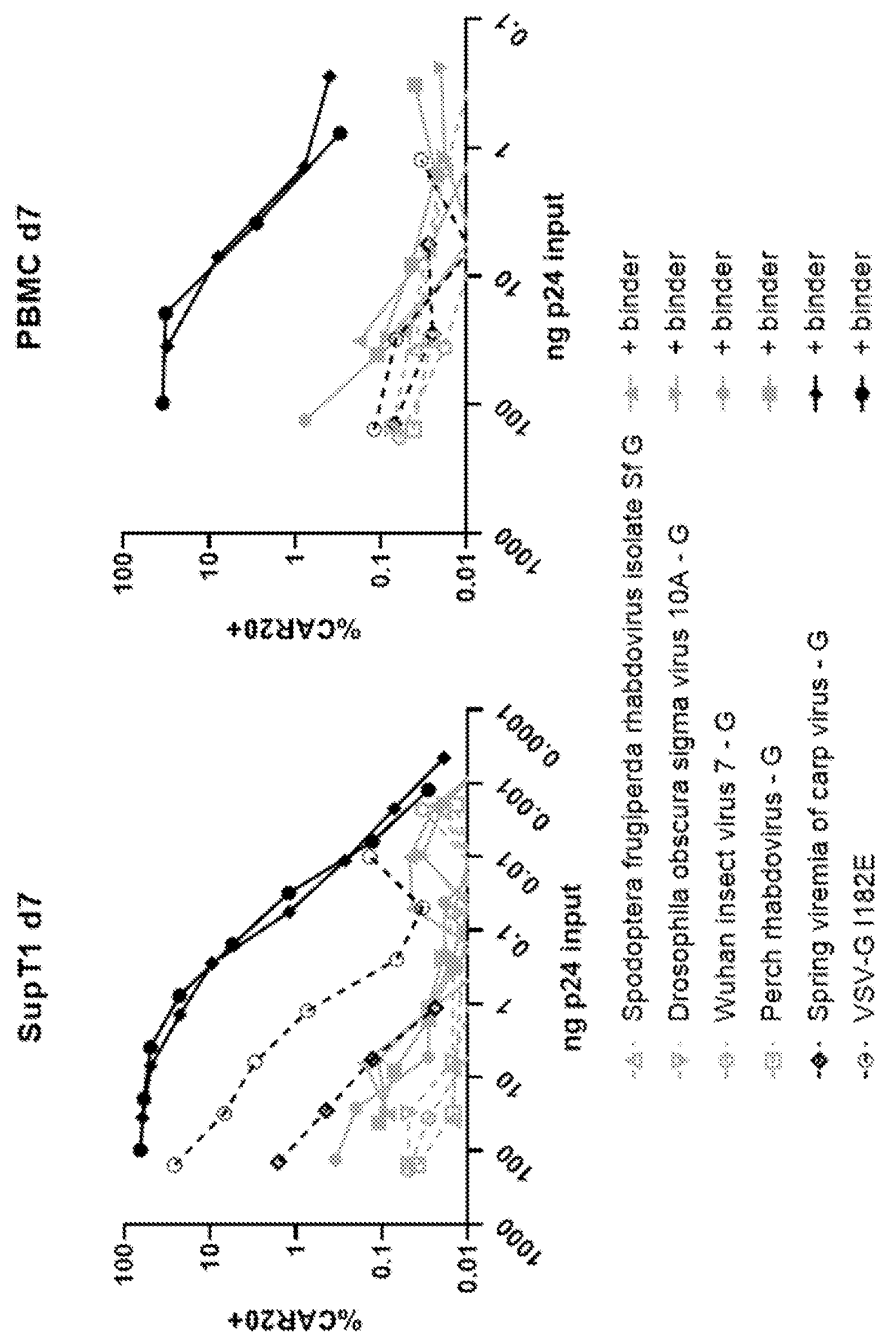


FIG. 6

With Paramyxoviridae glycoprotein

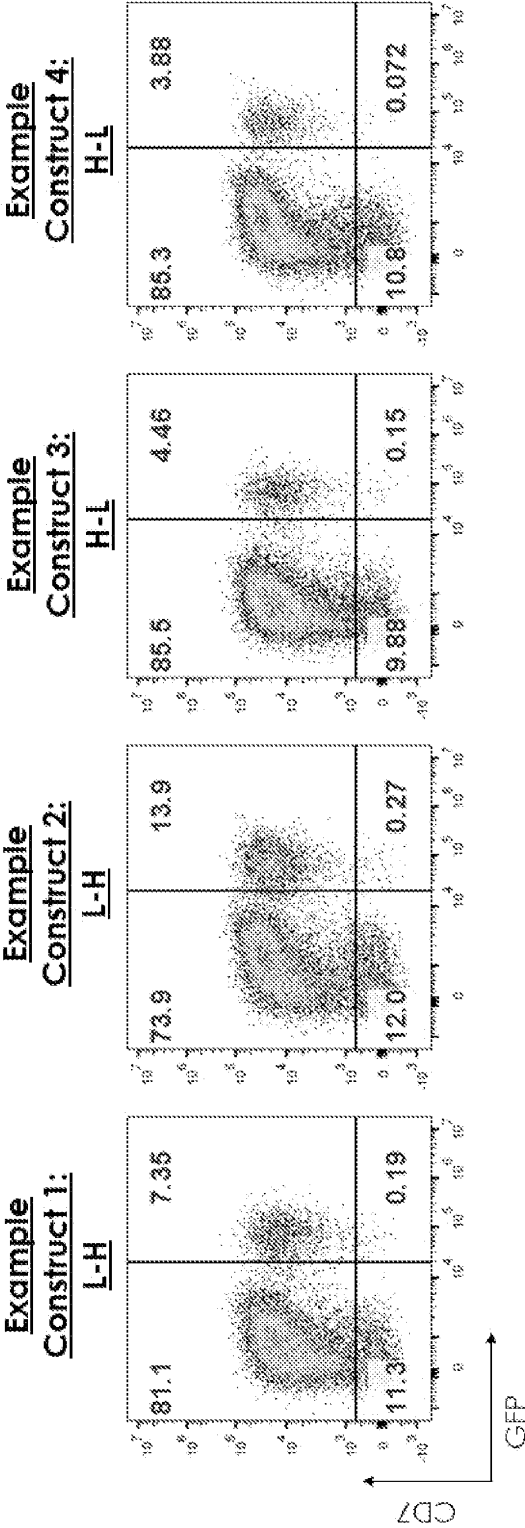


FIG. 7A

FIG. 7B

FIG. 7C

FIG. 7D

Binder Alone

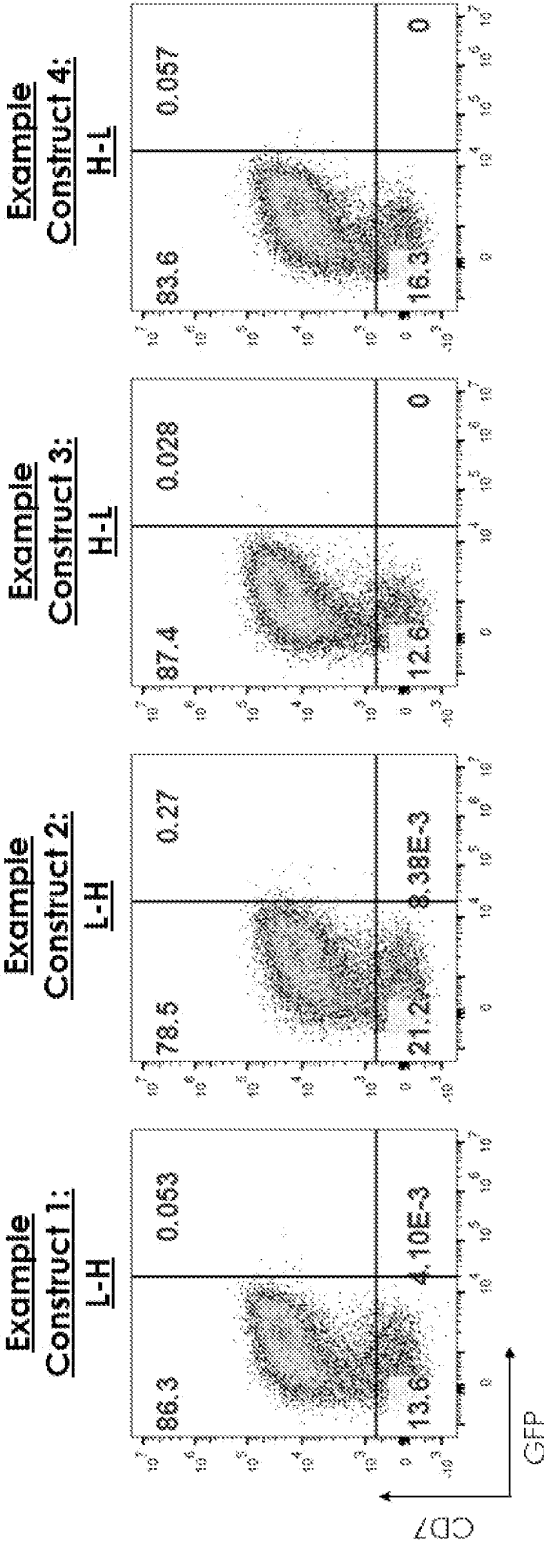


FIG. 7E

FIG. 7F

FIG. 7G

FIG. 7H

With Rhabdoviridae glycoprotein

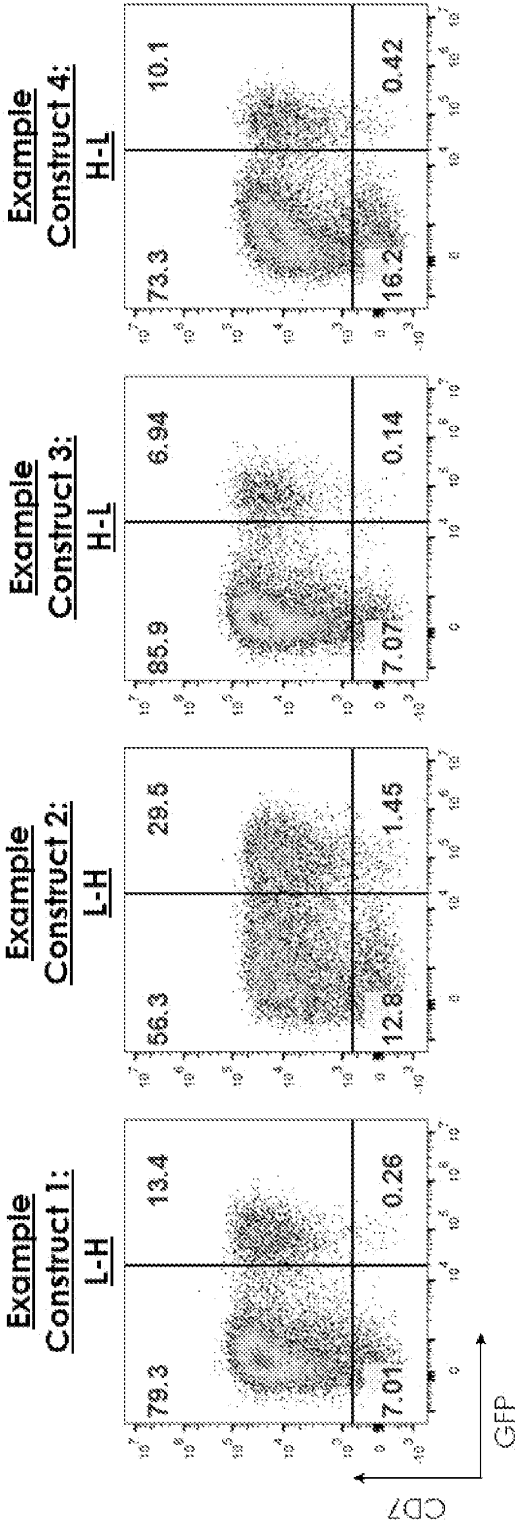


FIG. 7I

FIG. 7J

FIG. 7K

FIG. 7L

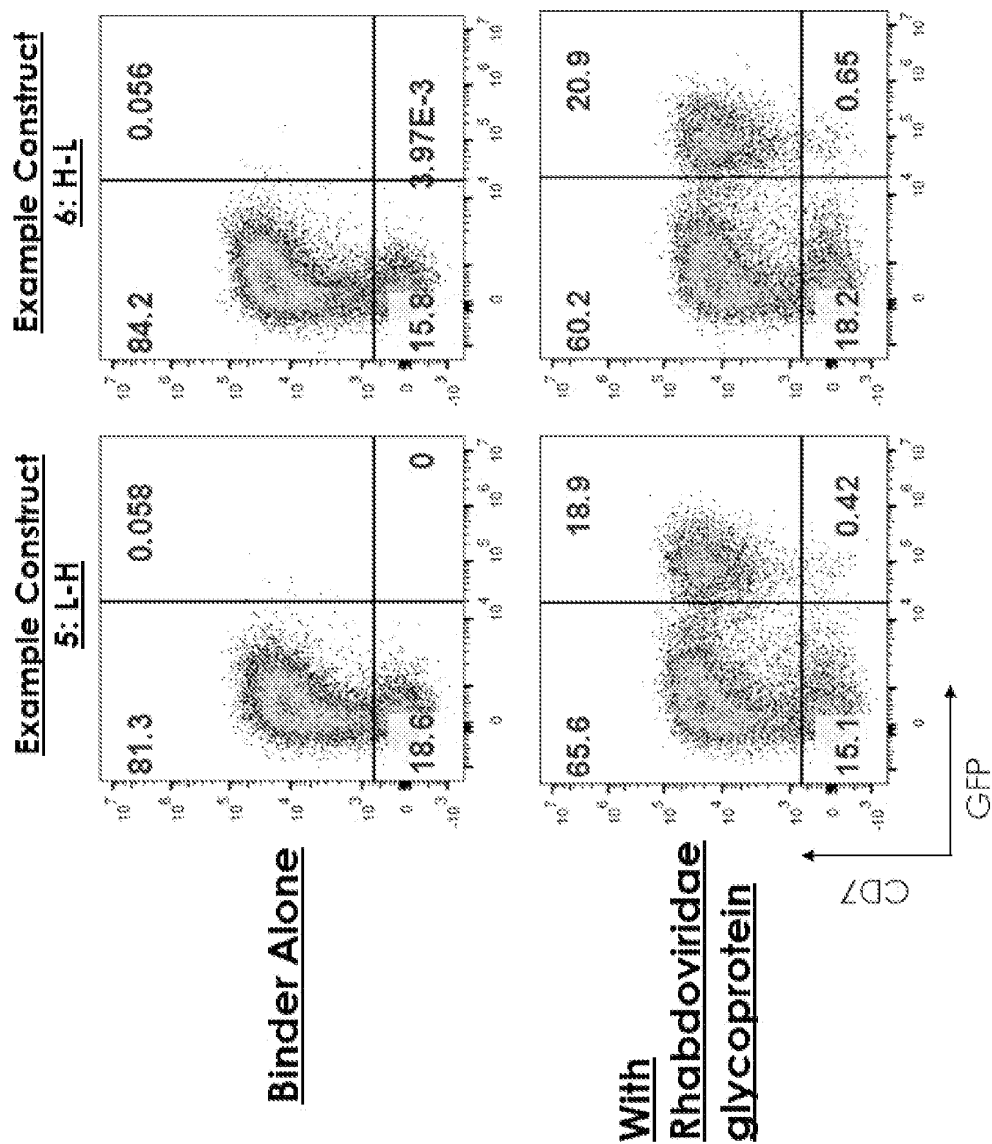


FIG. 7M

With Paramyxoviridae glycoprotein

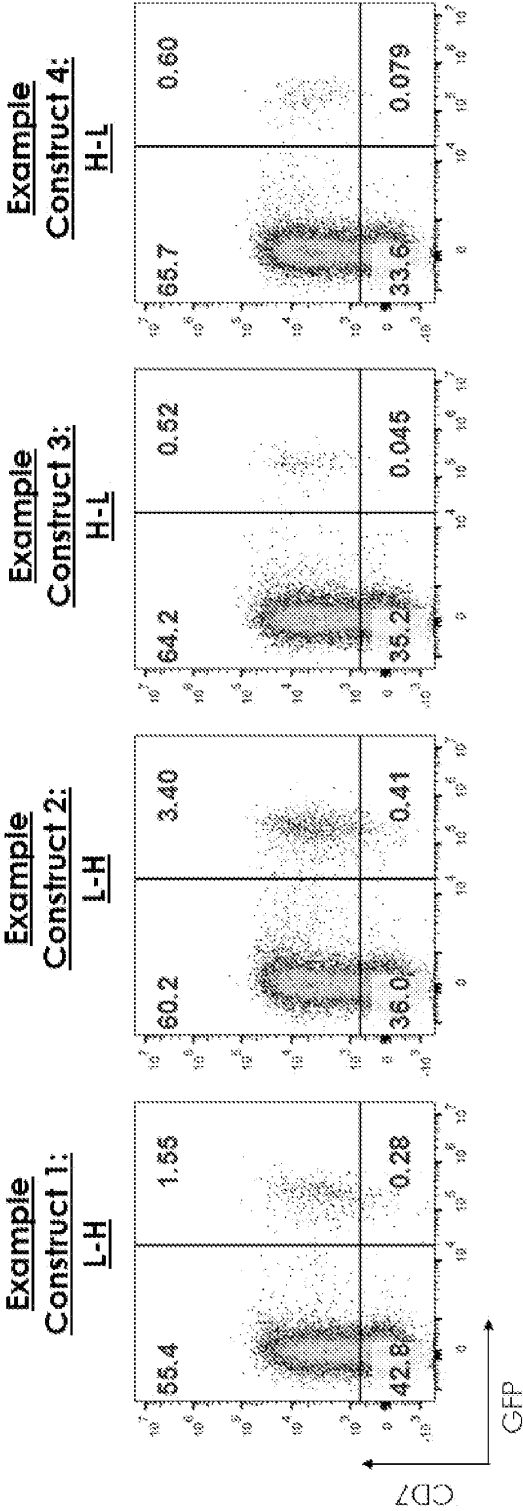


FIG. 8A

FIG. 8B

FIG. 8C

FIG. 8D

Binder Alone

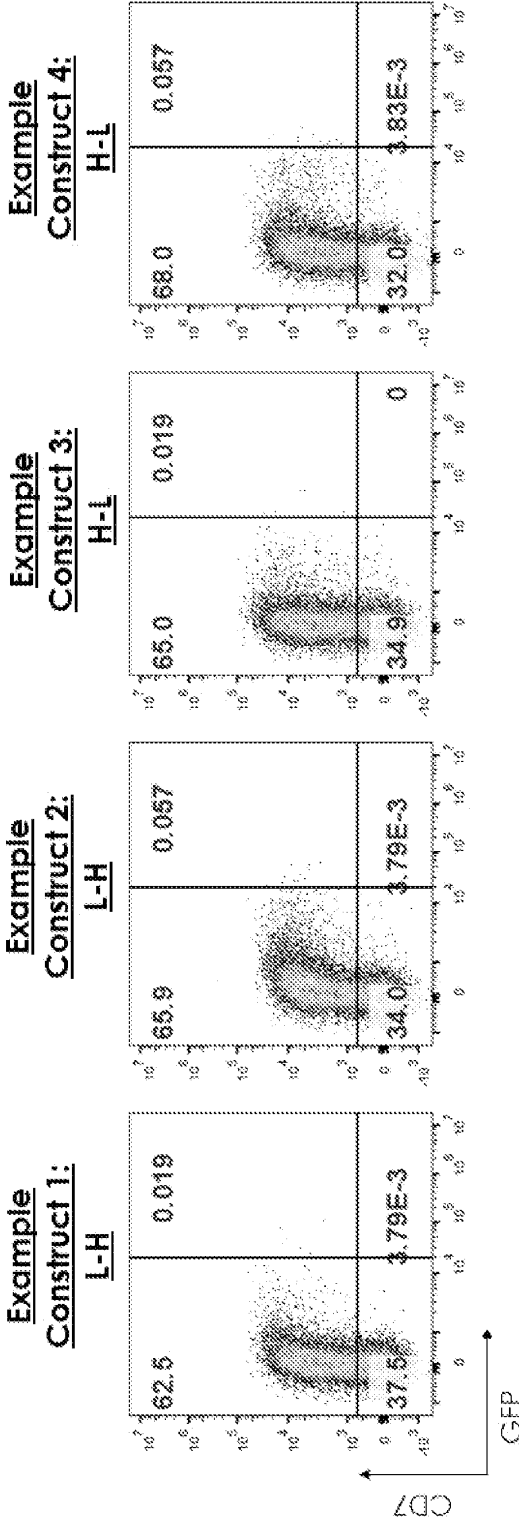


FIG. 8E

FIG. 8F

FIG. 8G

FIG. 8H

With Rhabdoviridae glycoprotein

Example
Construct 1:
L-H

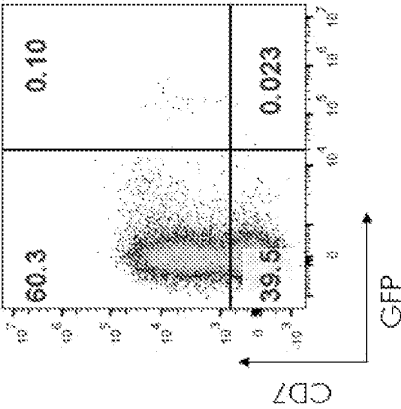


FIG. 8I

Example
Construct 2:
L-H

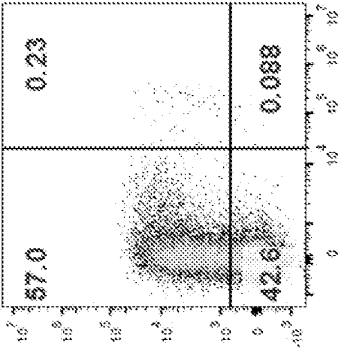


FIG. 8J

Example
Construct 3:
H-L

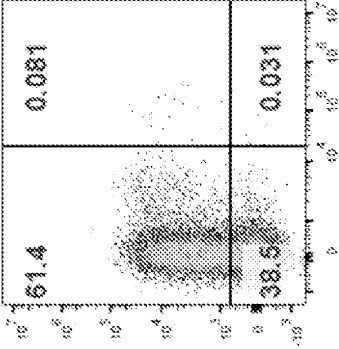


FIG. 8K

Example
Construct 4:
H-L

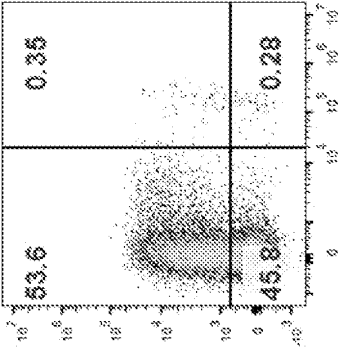


FIG. 8L

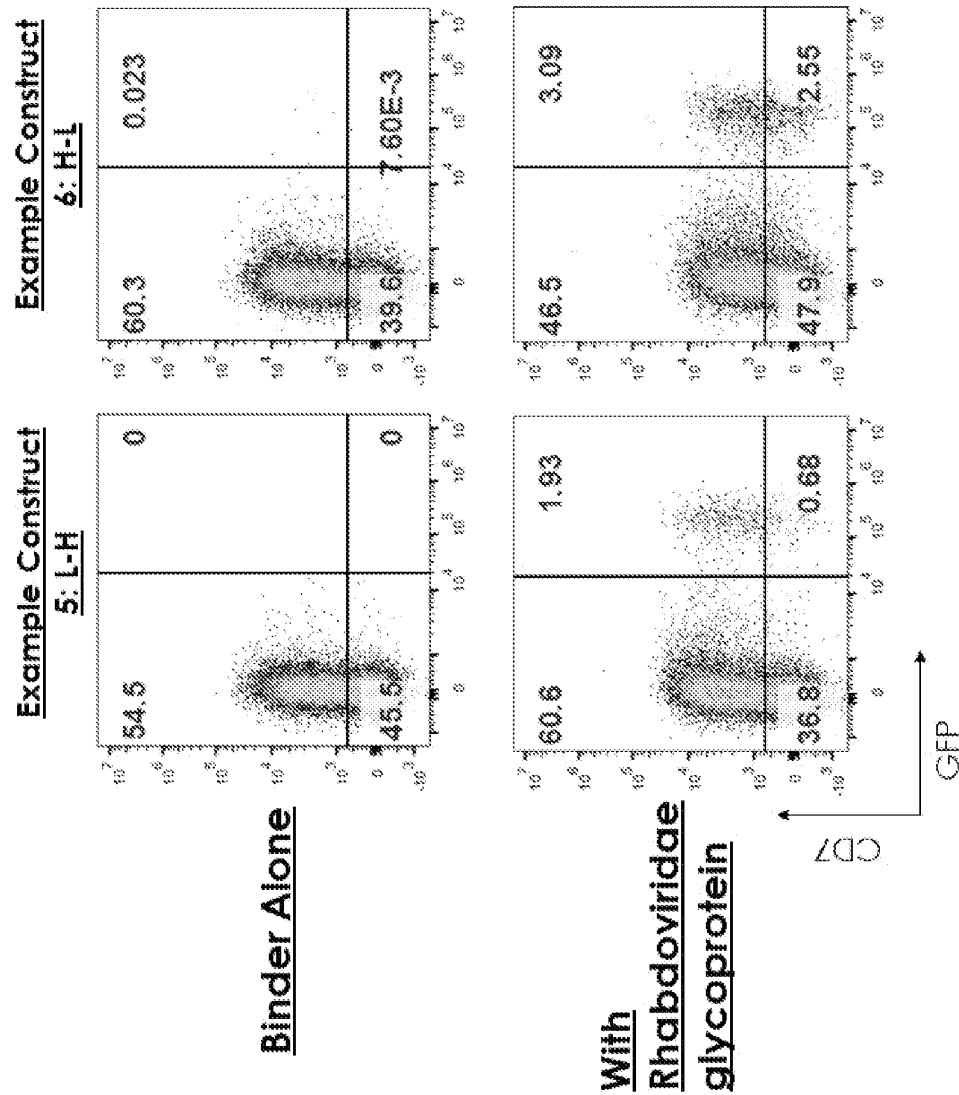


FIG. 8M

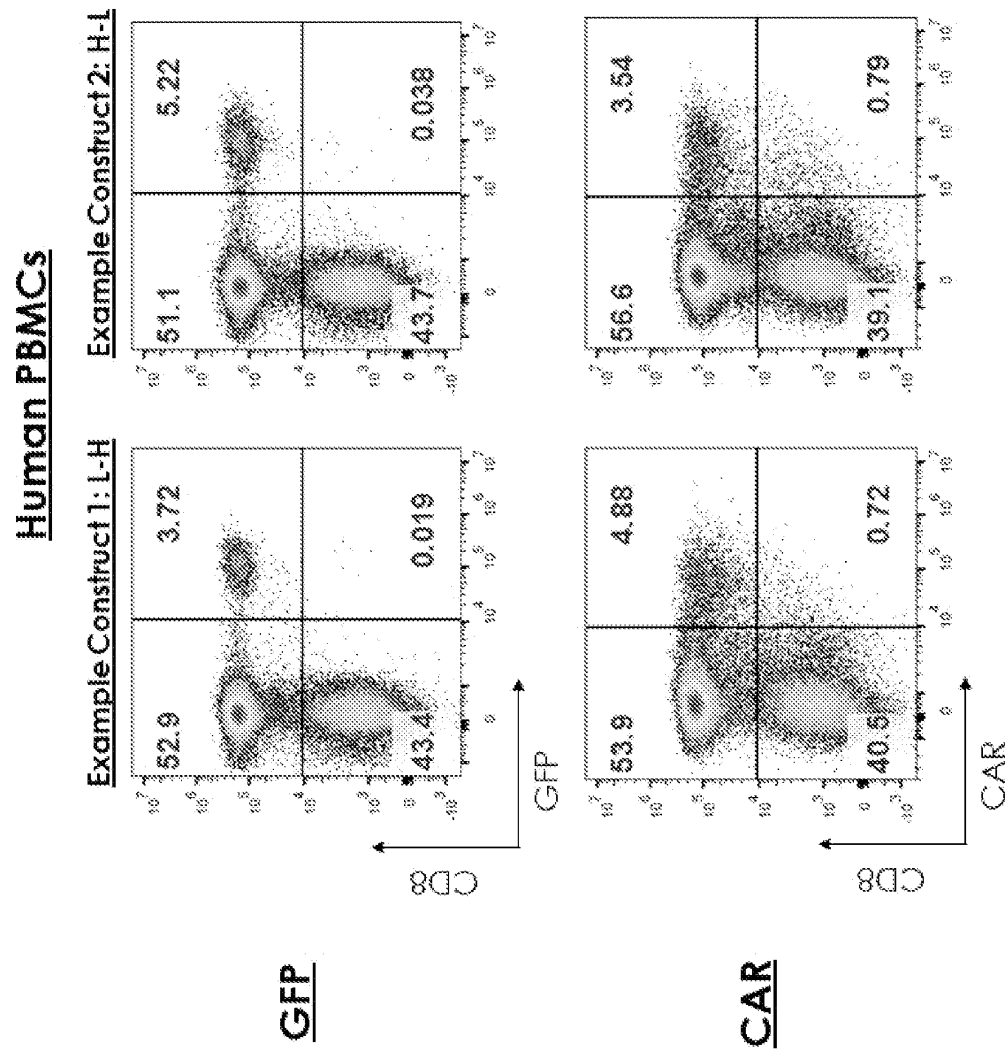


FIG. 9A

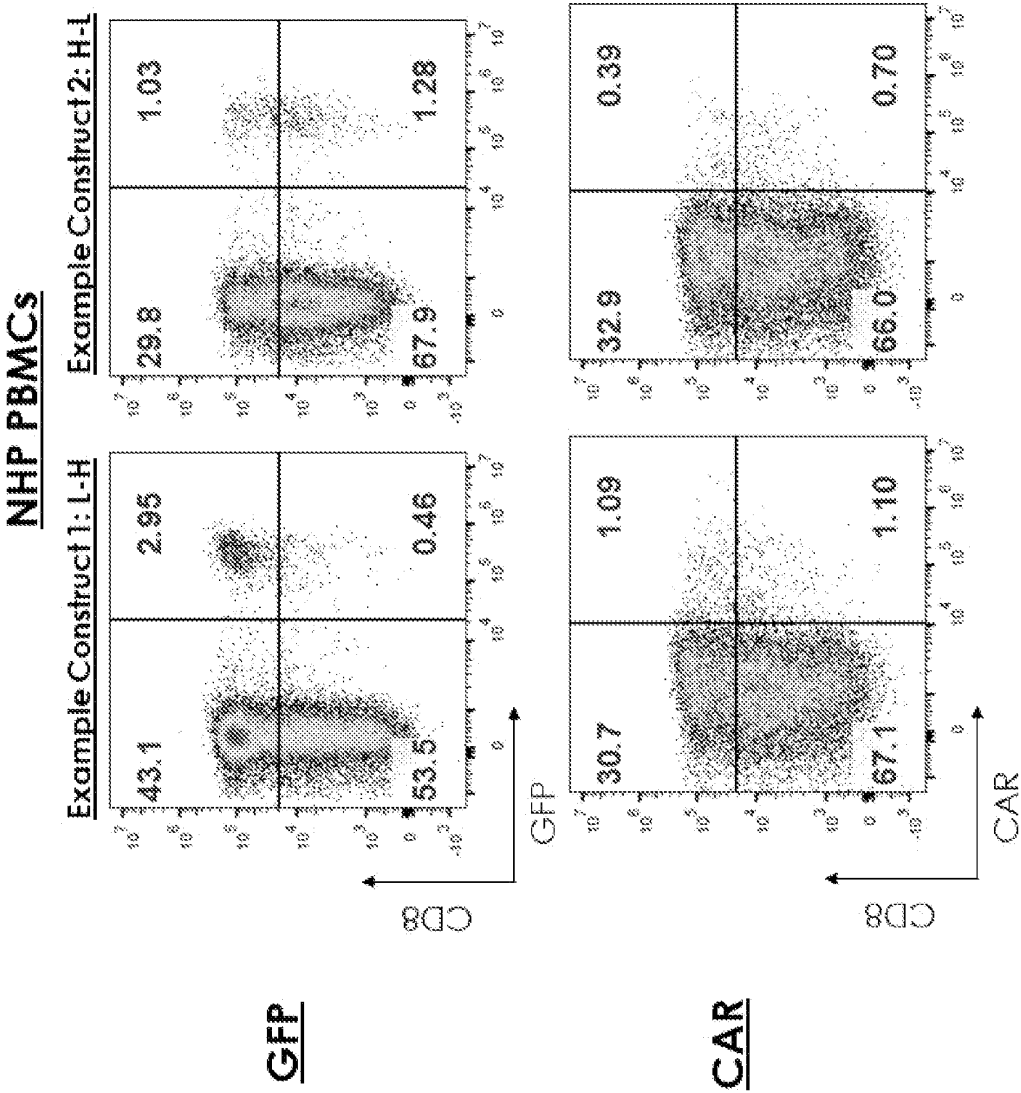


FIG. 9B

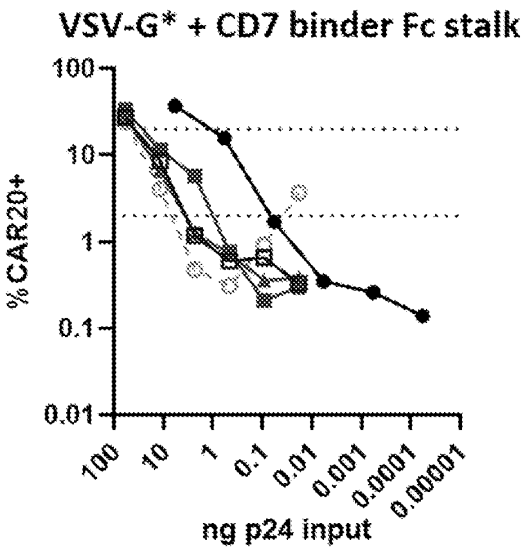


FIG. 10A

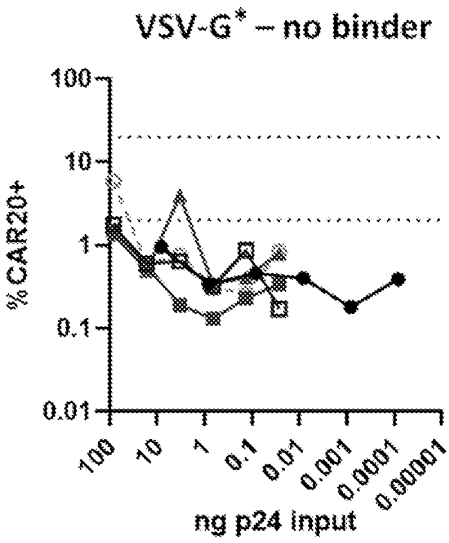


FIG. 10B

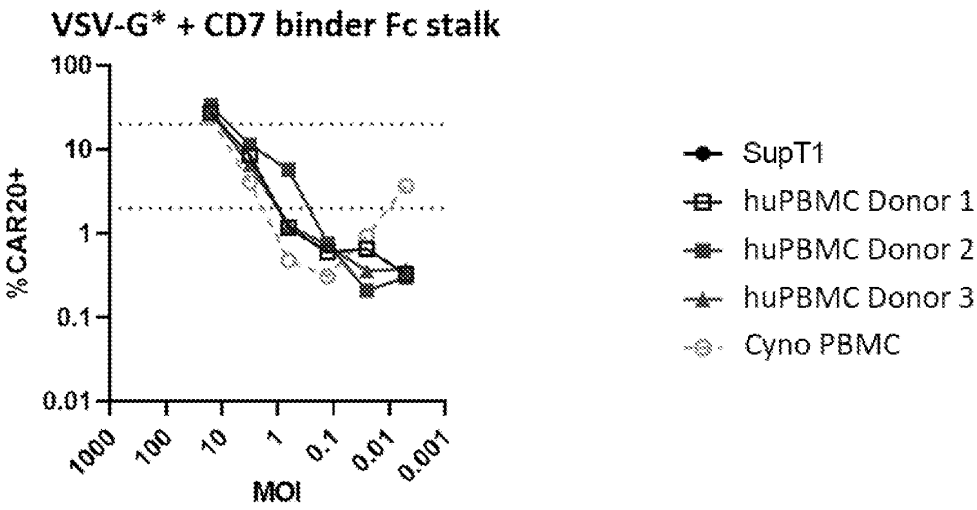


FIG. 10C

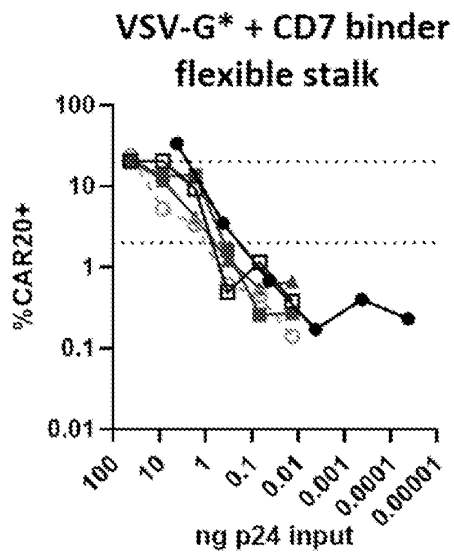


FIG. 11A

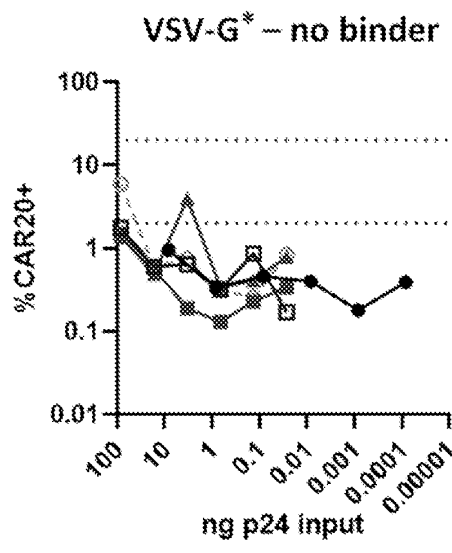


FIG. 11B

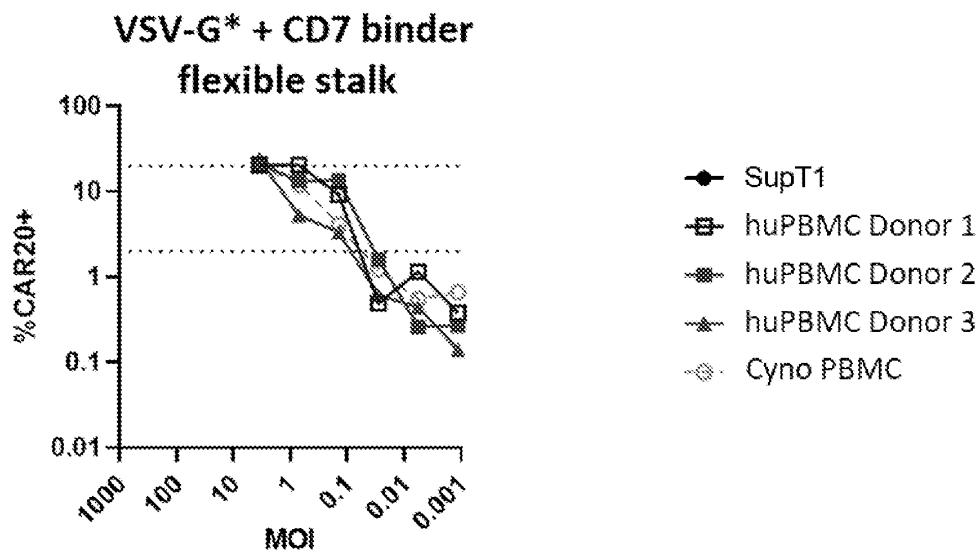


FIG. 11C

24/38

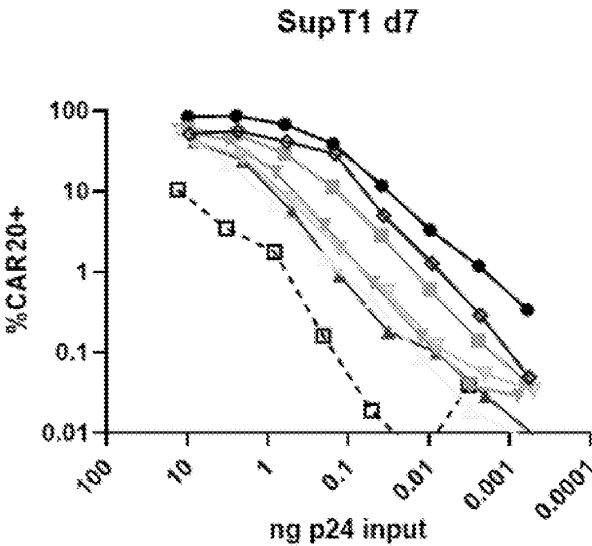


FIG. 12A

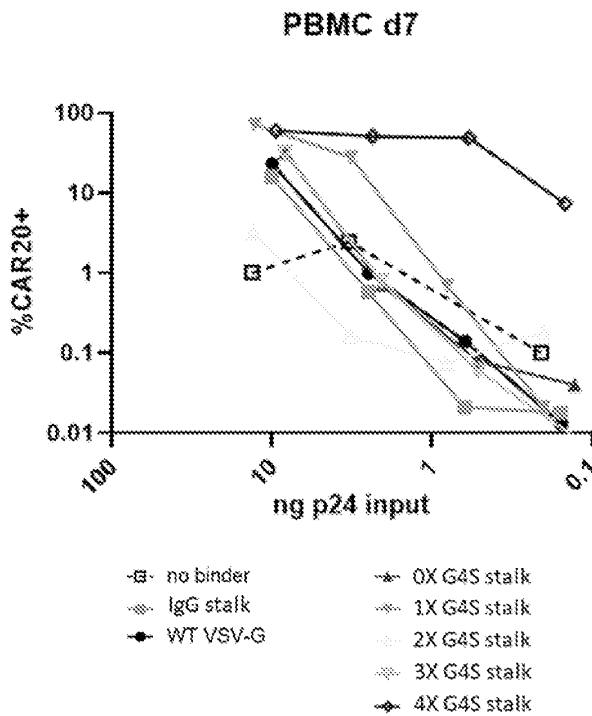


FIG. 12B

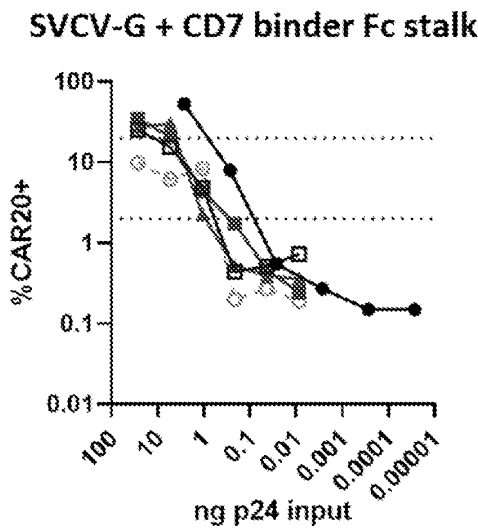


FIG. 13A

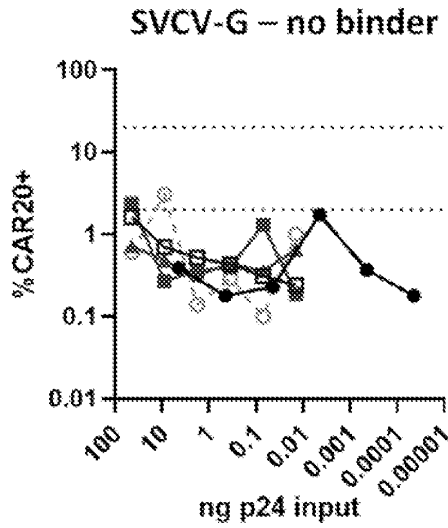


FIG. 13B

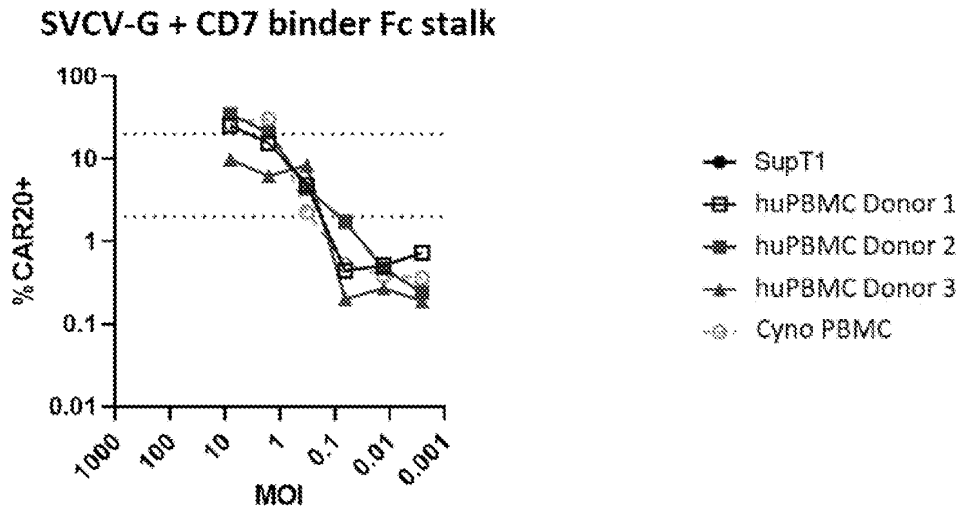


FIG. 13C

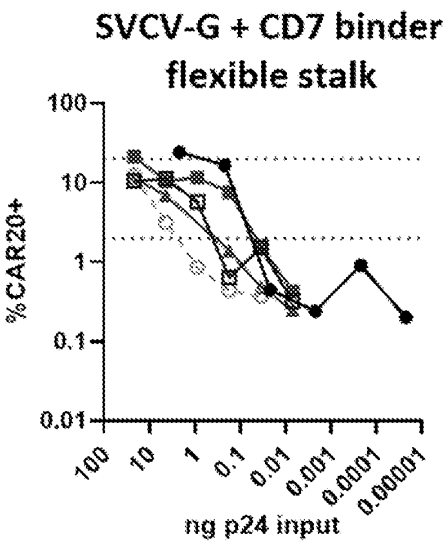


FIG. 14A

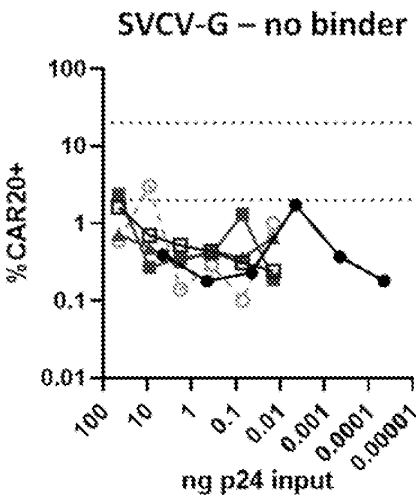


FIG. 14B

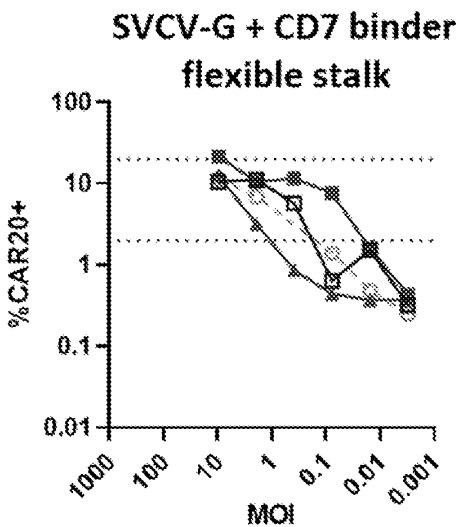
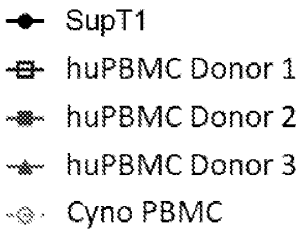


FIG. 14C



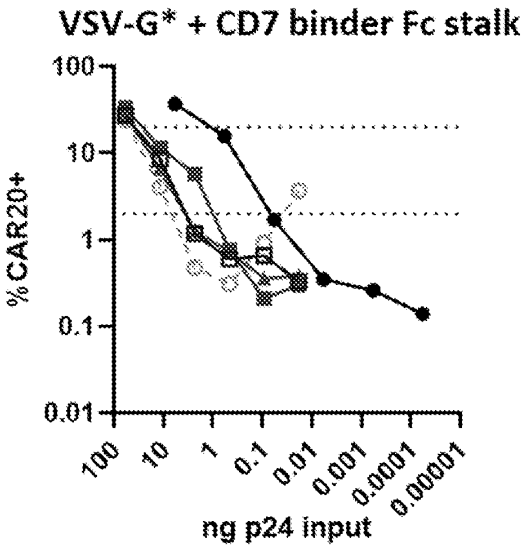


FIG. 15A

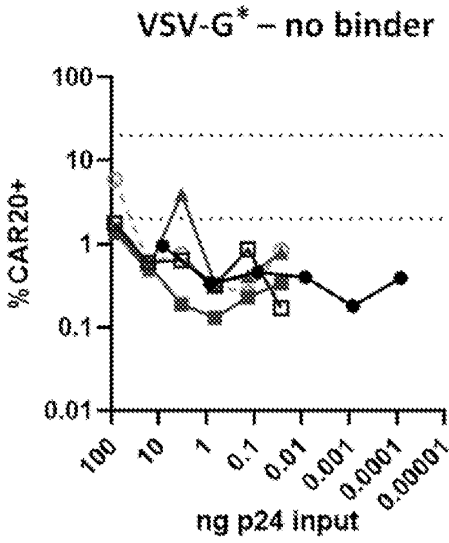


FIG. 15B

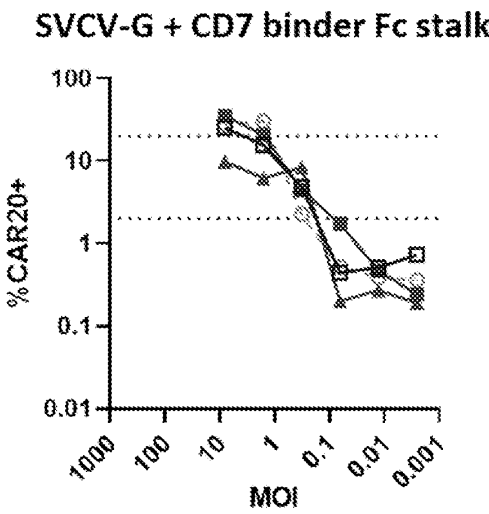


FIG. 15C

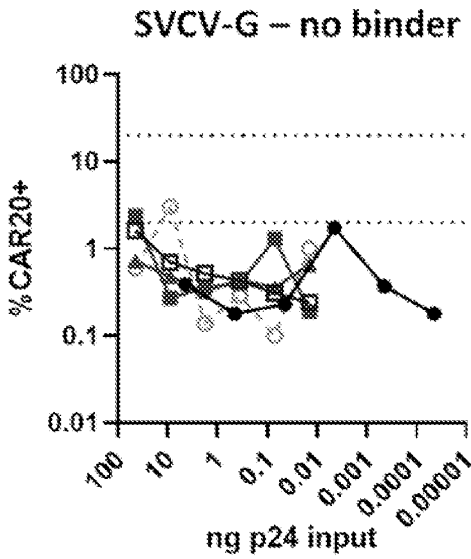


FIG. 15D

- SupT1
- huPBMC Donor 1
- huPBMC Donor 2
- *— huPBMC Donor 3
- Cyno PBMC

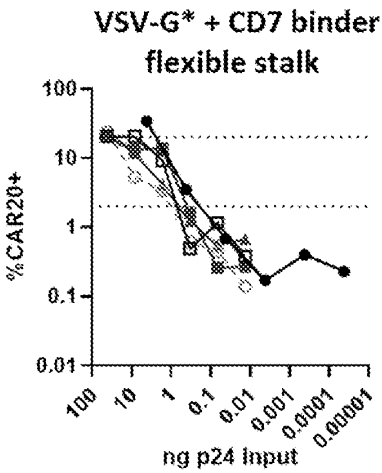


FIG. 16A

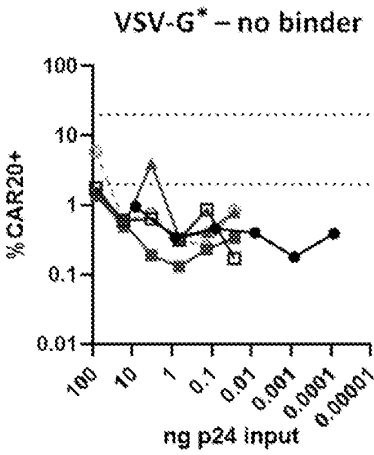


FIG. 16B

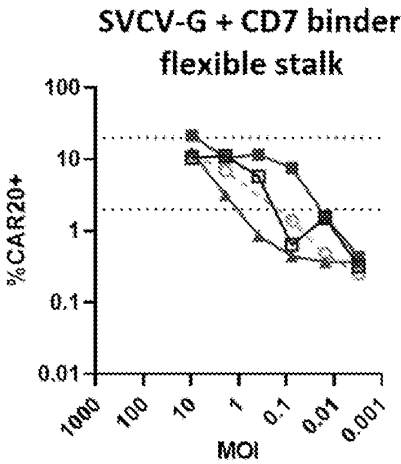


FIG. 16C

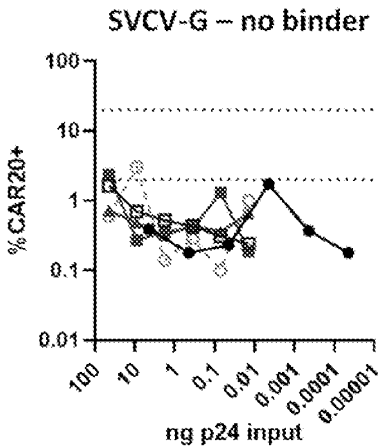


FIG. 16D

- SupT1
- huPBMC Donor 1
- huPBMC Donor 2
- ★ huPBMC Donor 3
- ⊙ Cyno PBMC

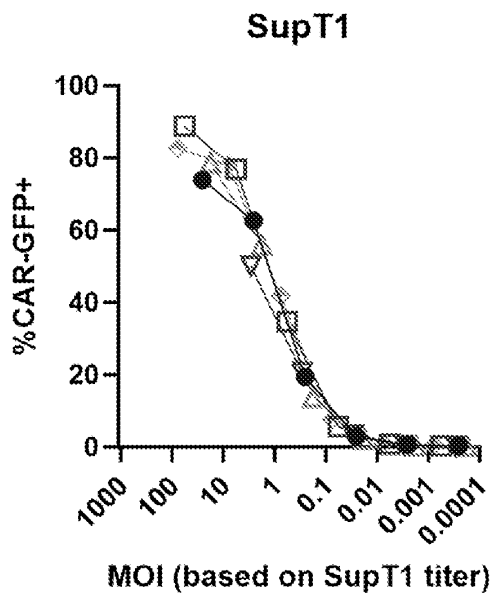


FIG. 17A

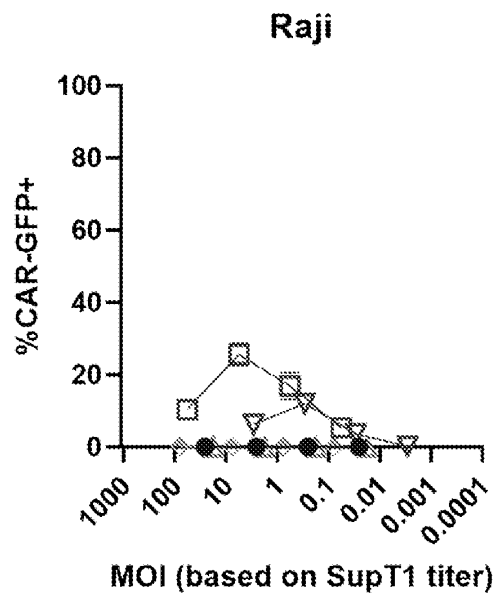


FIG. 17B

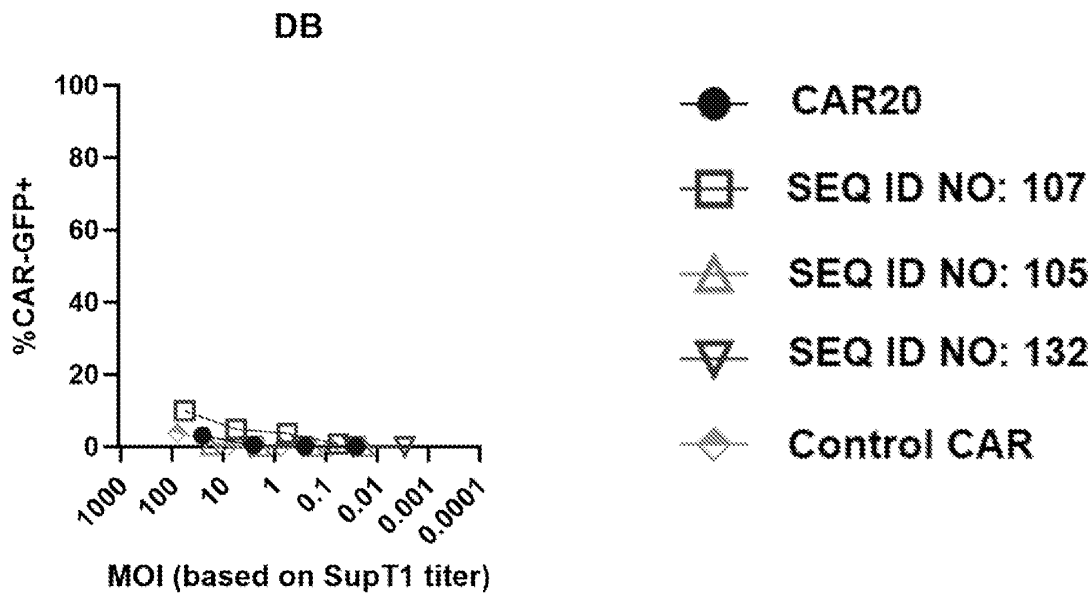


FIG. 17C

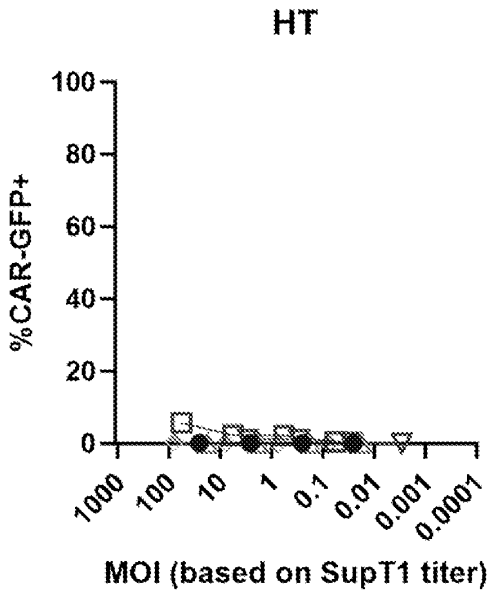


FIG. 17D

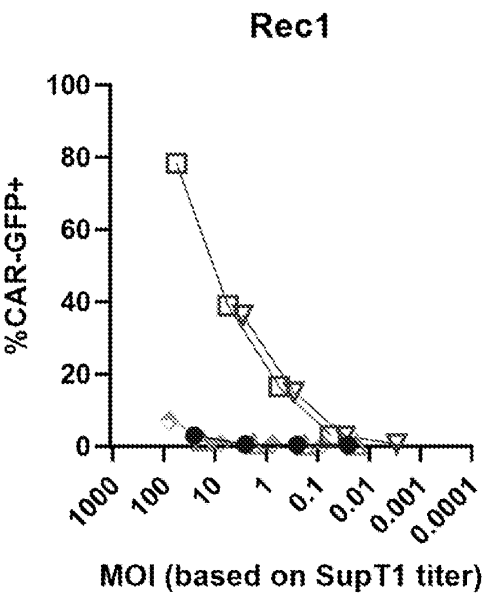


FIG. 17E

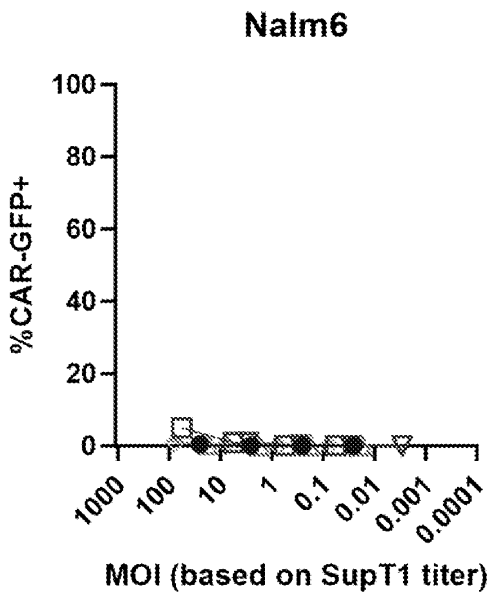
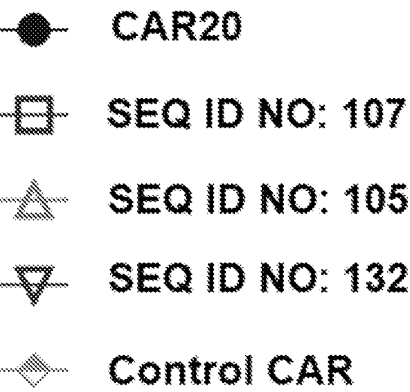


FIG. 17F



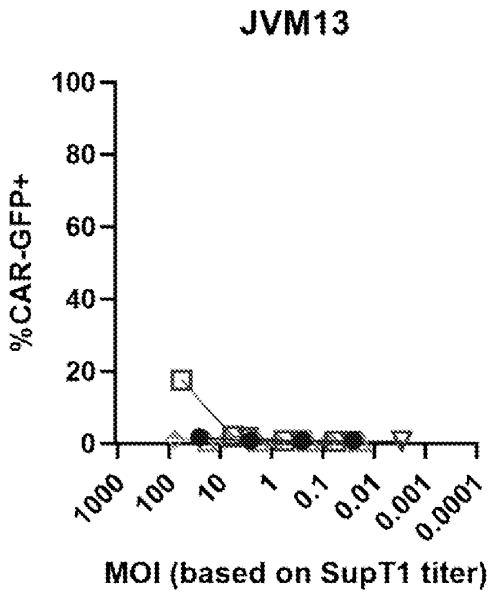


FIG. 17G

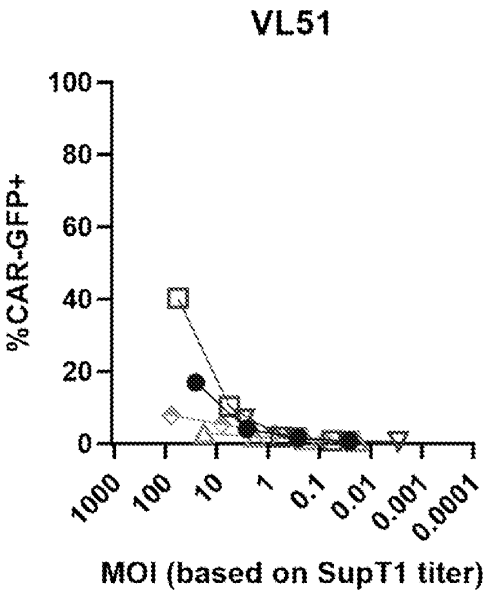


FIG. 17H

- CAR20
- ▣ SEQ ID NO: 107
- ▴ SEQ ID NO: 105
- ▾ SEQ ID NO: 132
- ◆ Control CAR

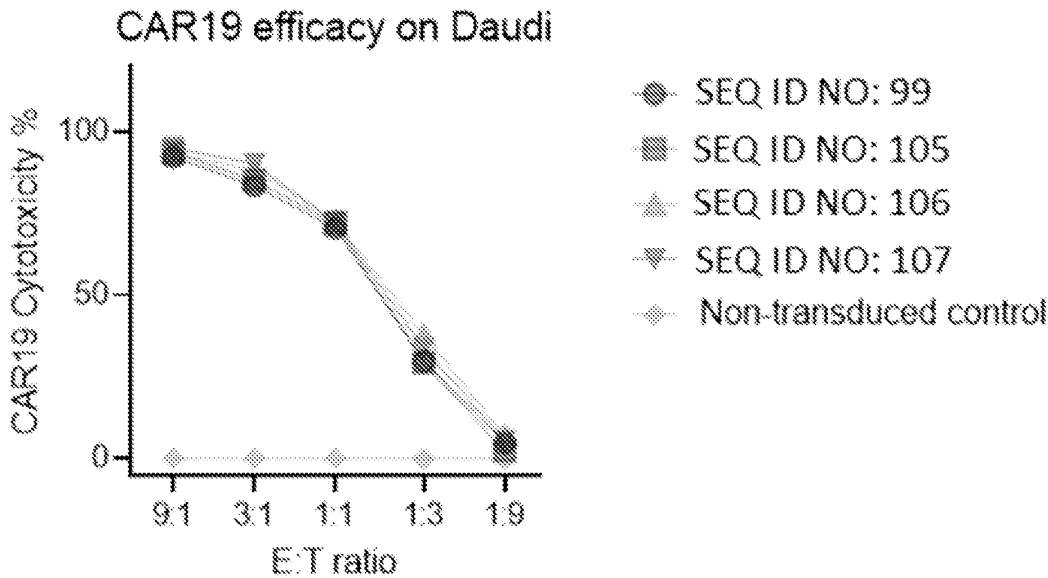


FIG. 18A

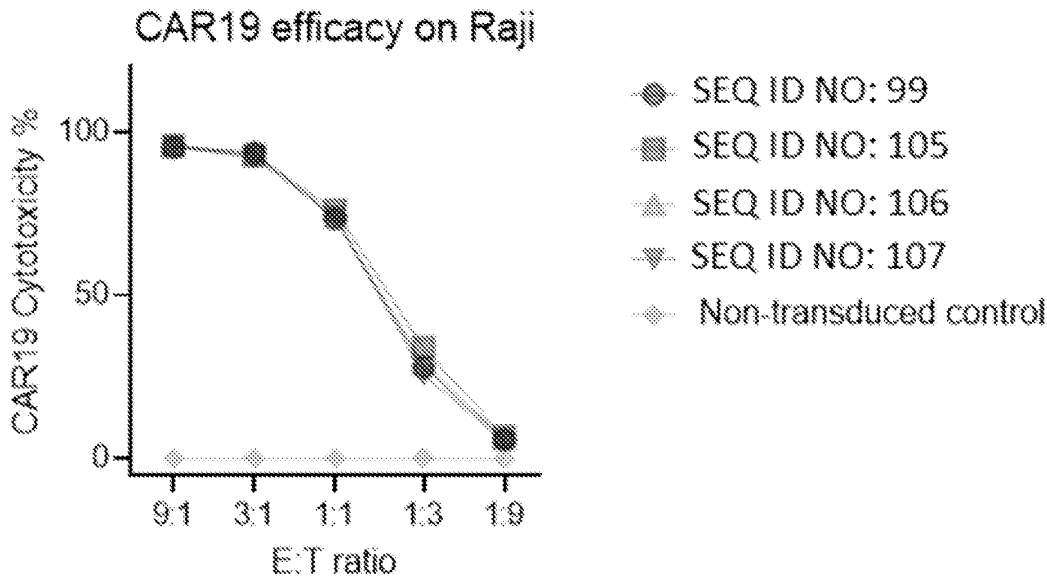


FIG. 18B

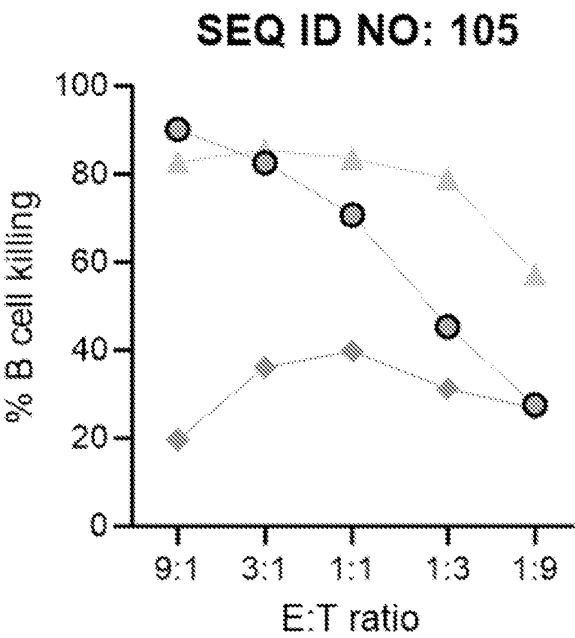


FIG. 19A

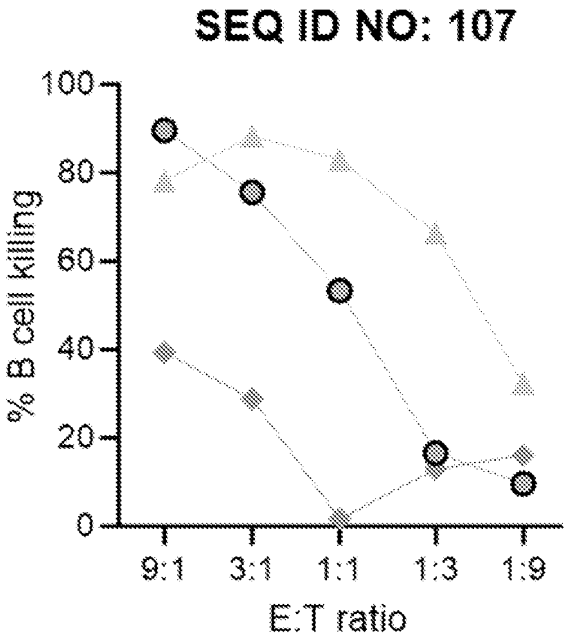


FIG. 19B

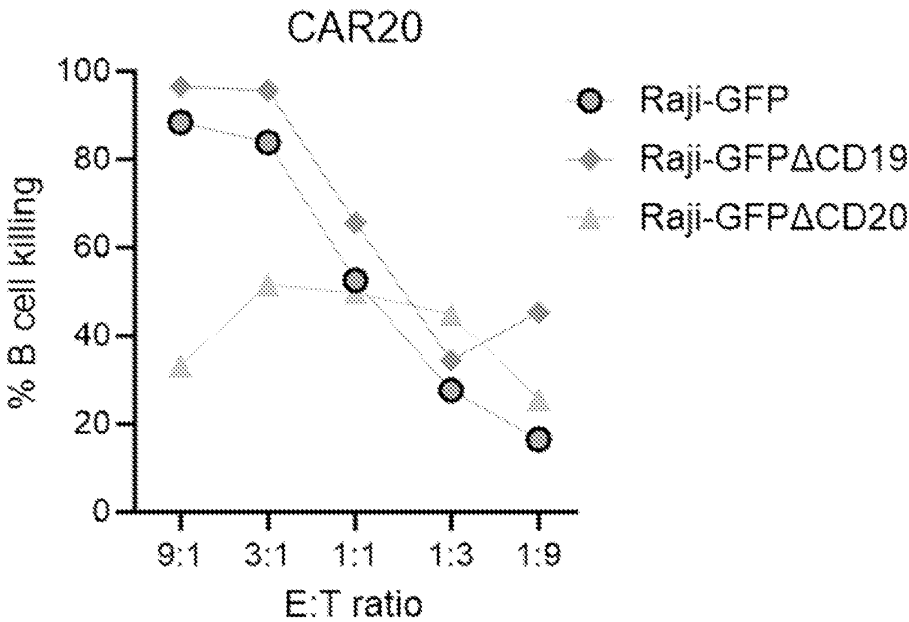


FIG. 19C

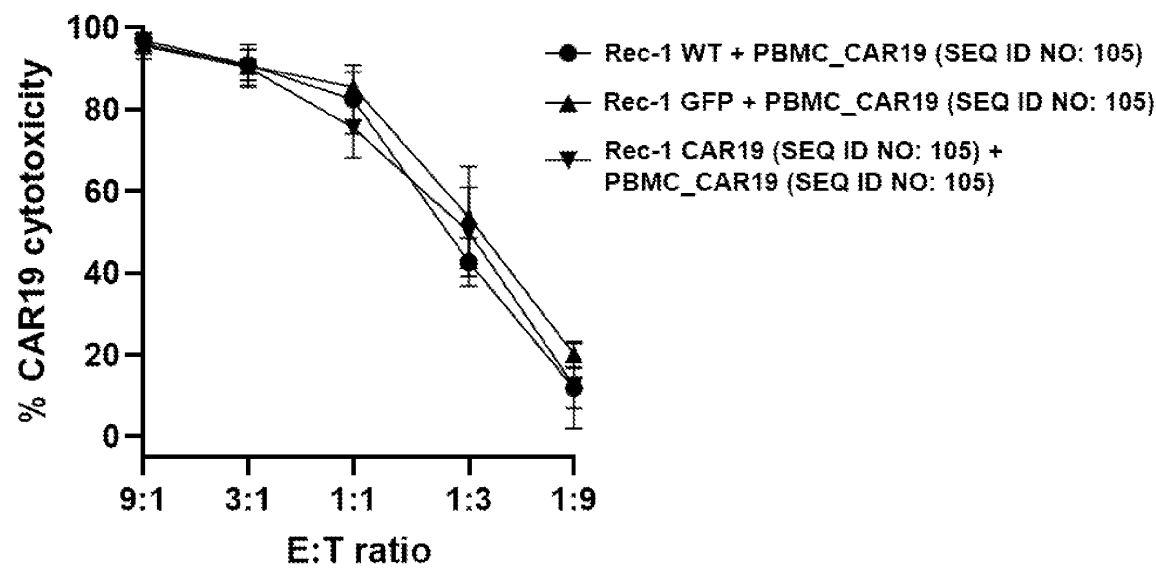


FIG. 20A

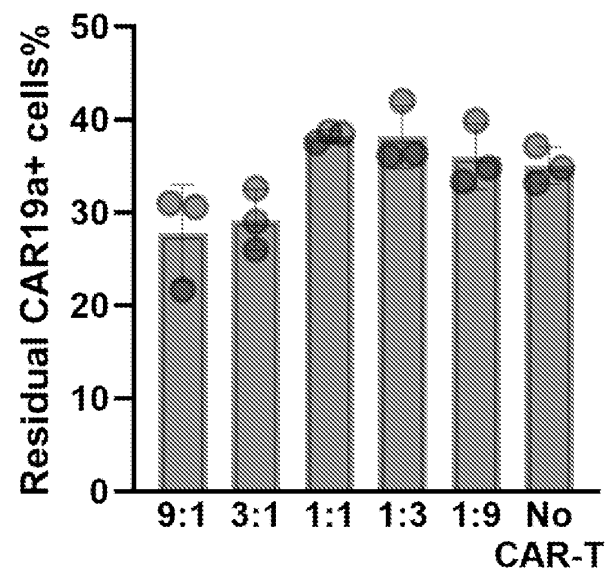


FIG. 20B

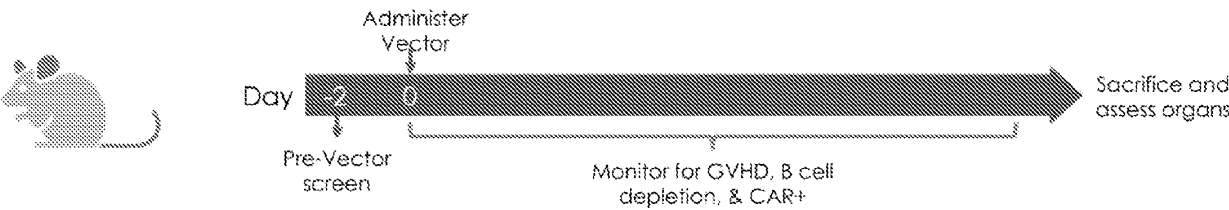


FIG. 21A

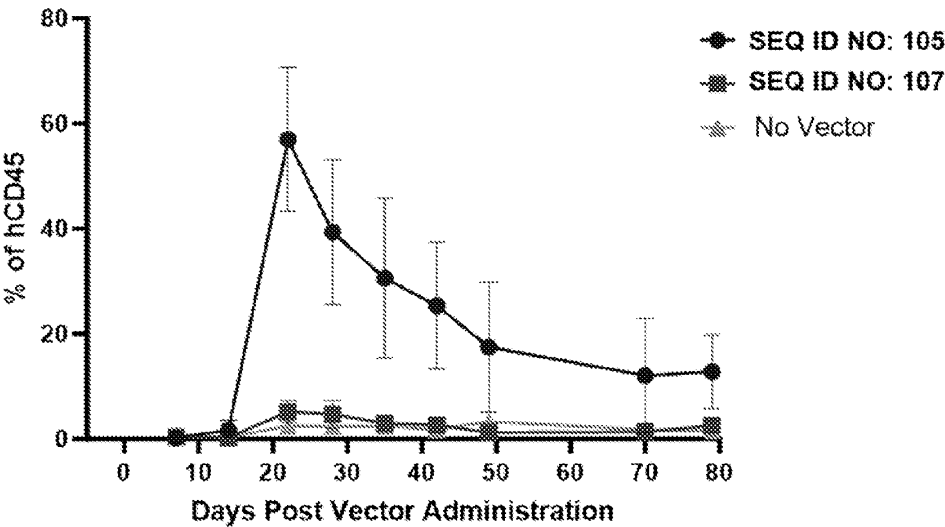


FIG. 21B

36/38

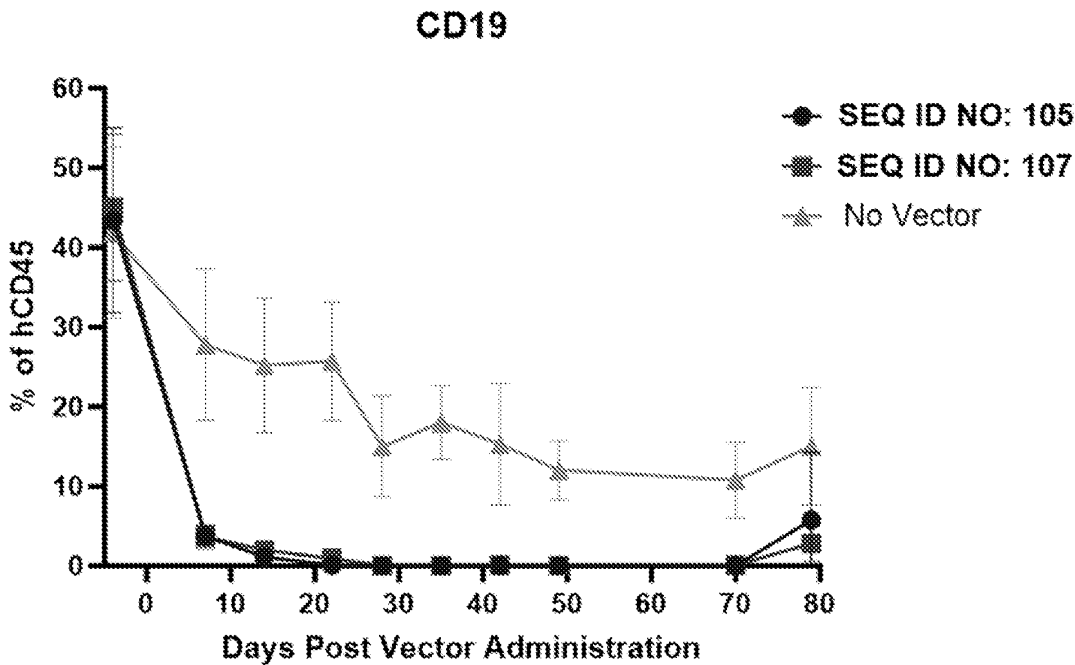


FIG. 22A

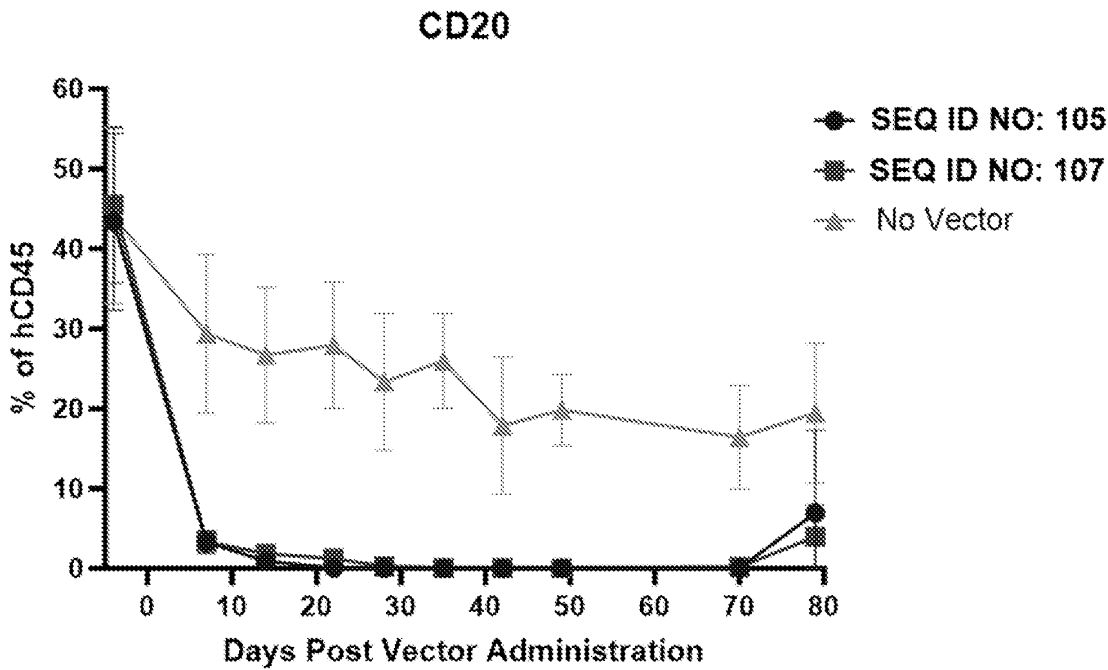


FIG. 22B

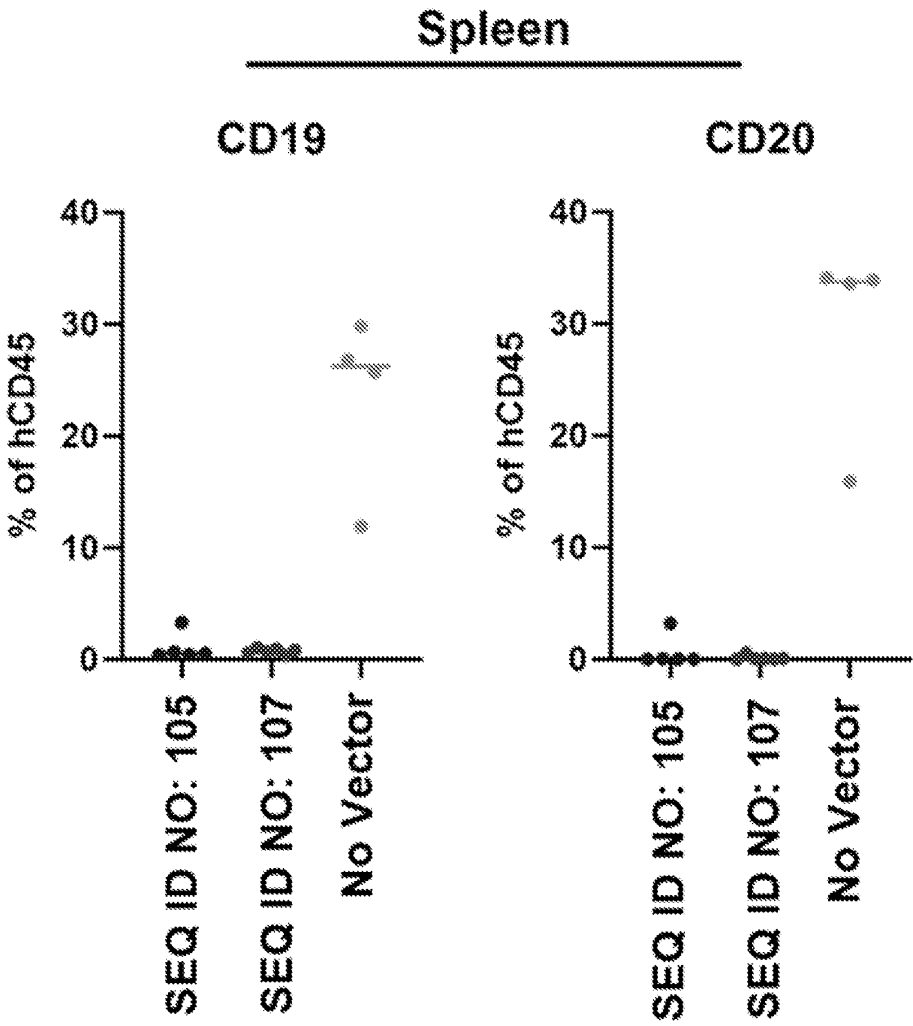


FIG. 23A

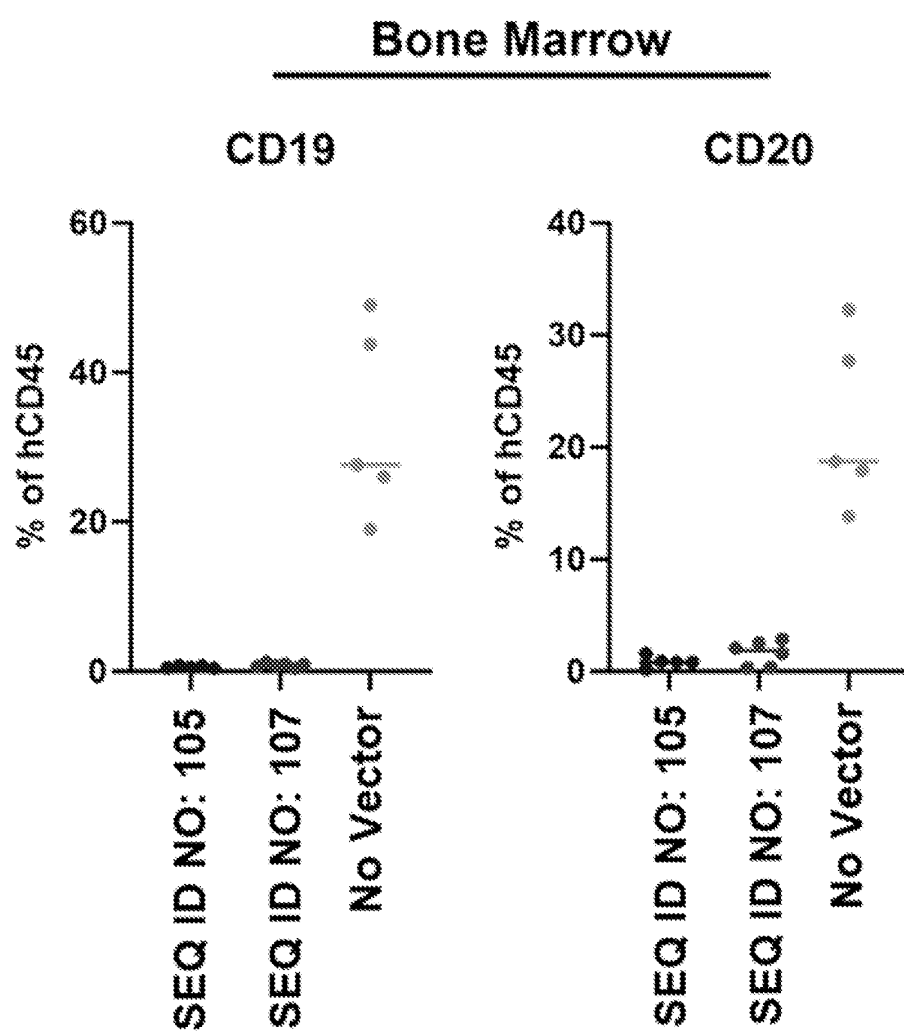


FIG. 23B