

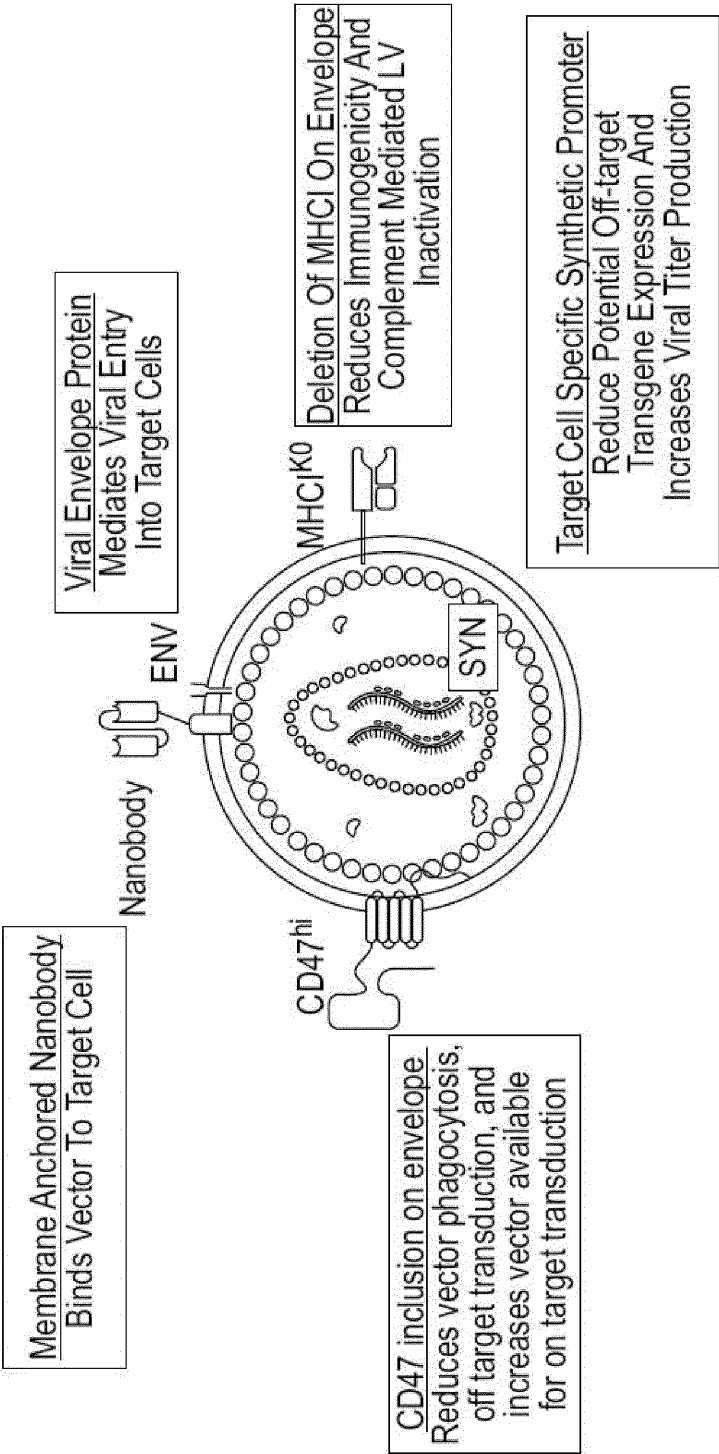
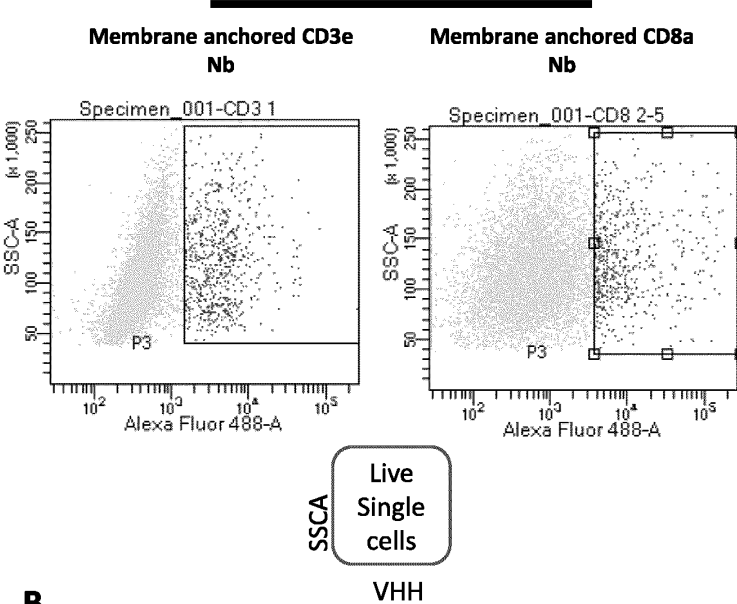


Fig. 1

A.
e293T cell lines transduced using γ RV



B.
Stably expressing sorted and expanded e293T cell lines

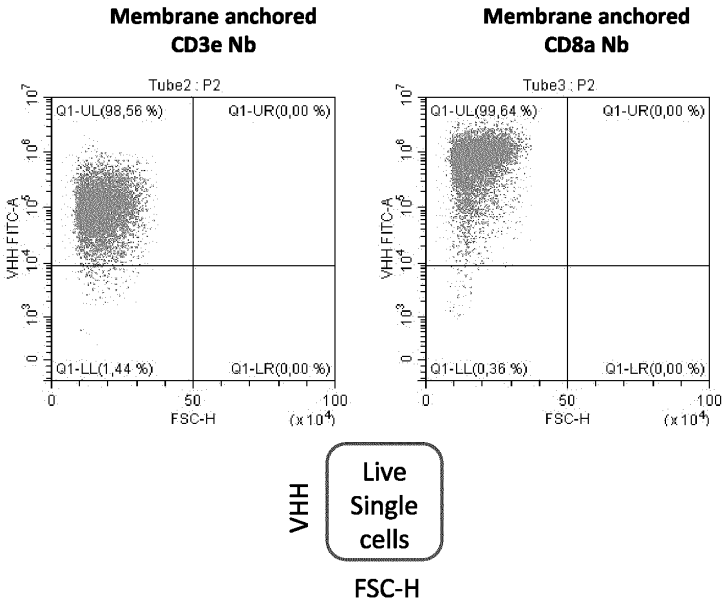


Fig. 2A-2B

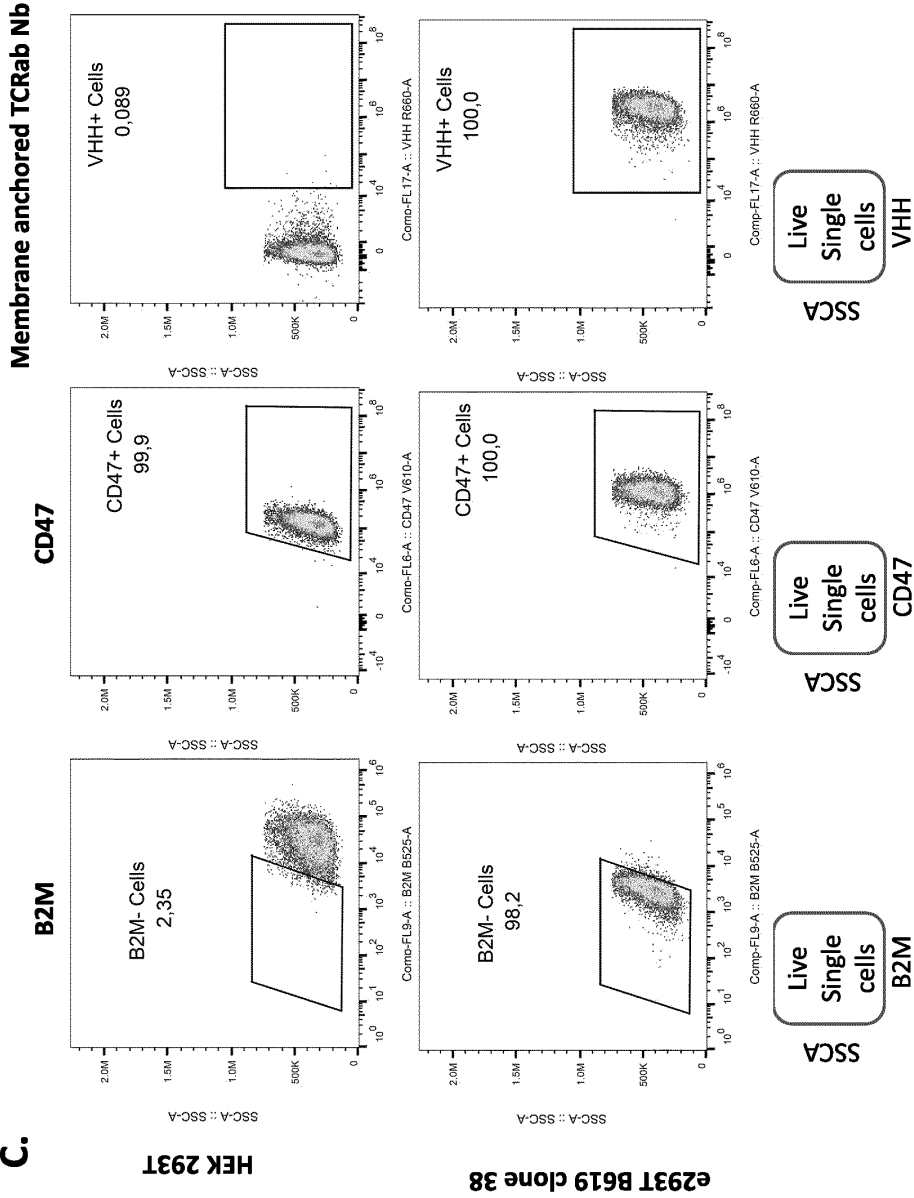
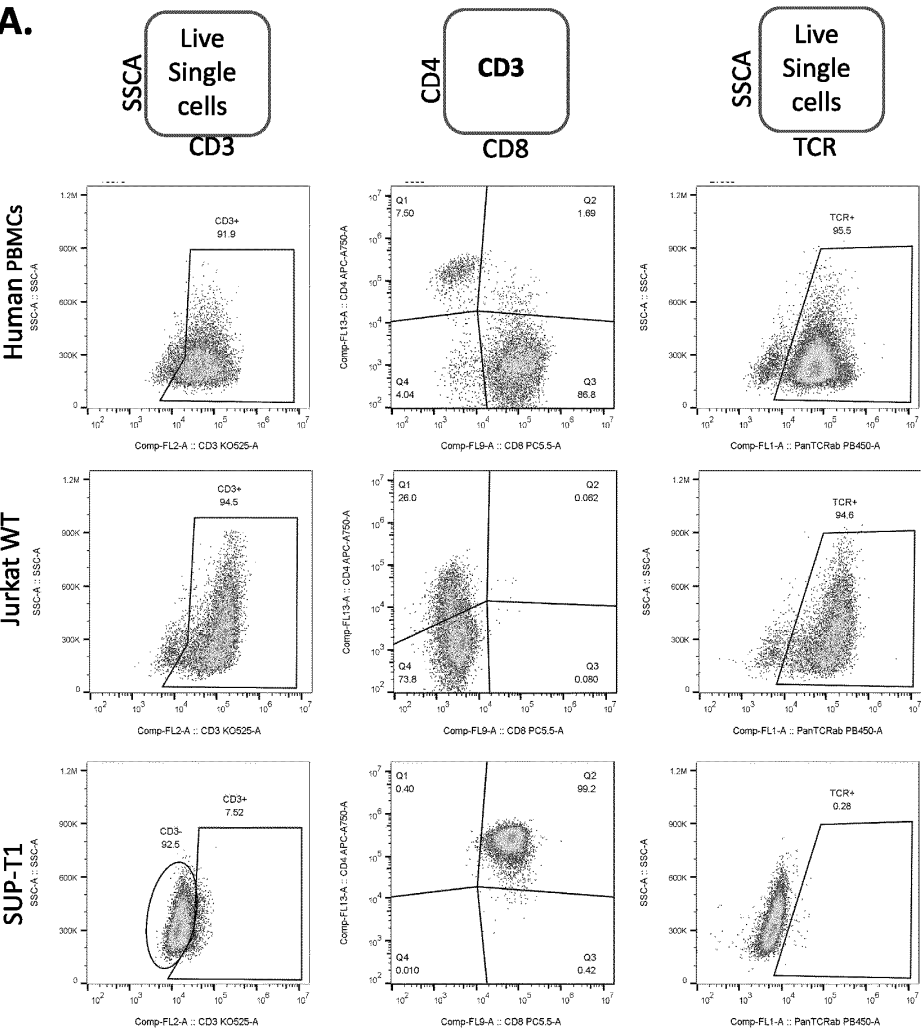


Fig. 2C

A.



B.

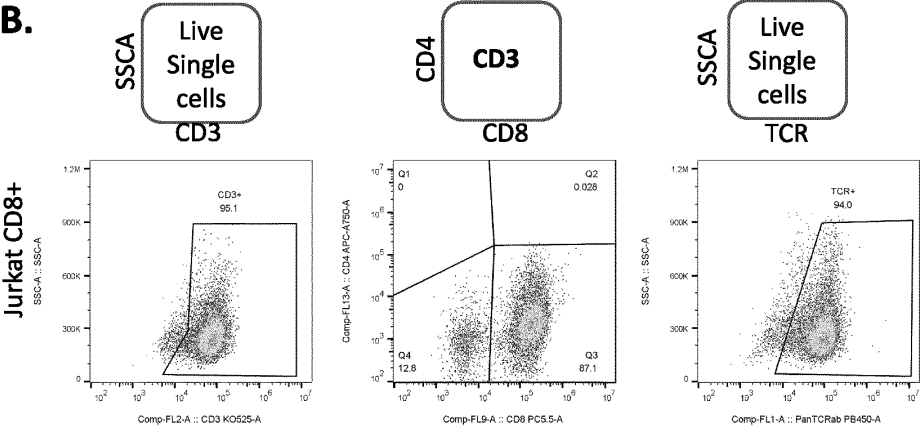


Fig. 3A-3B

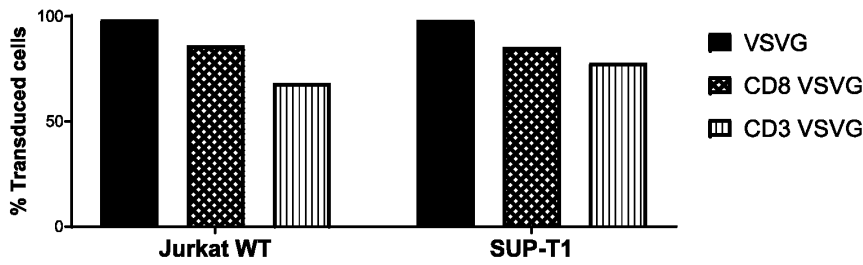


Fig. 4

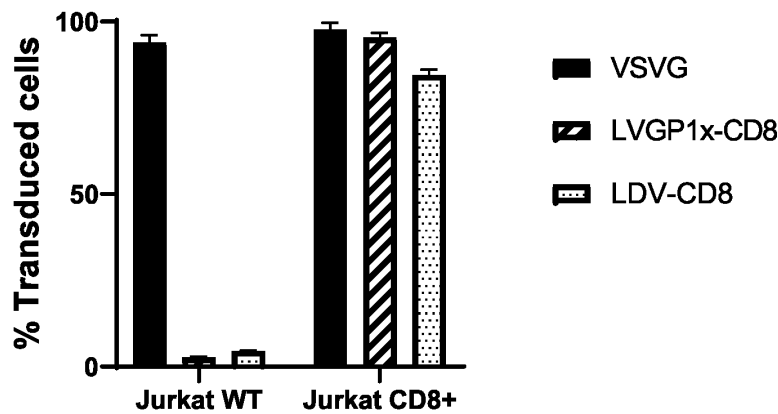


Fig. 5

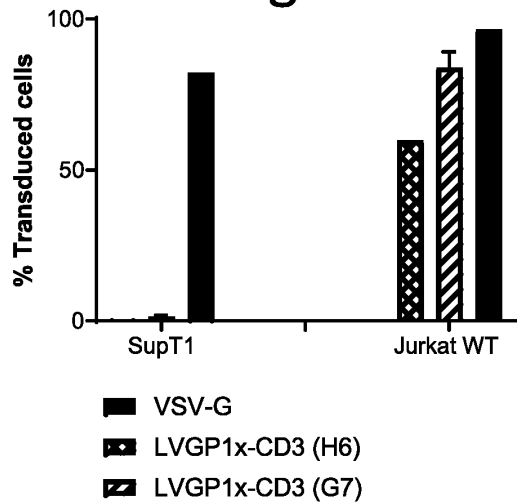


Fig. 6

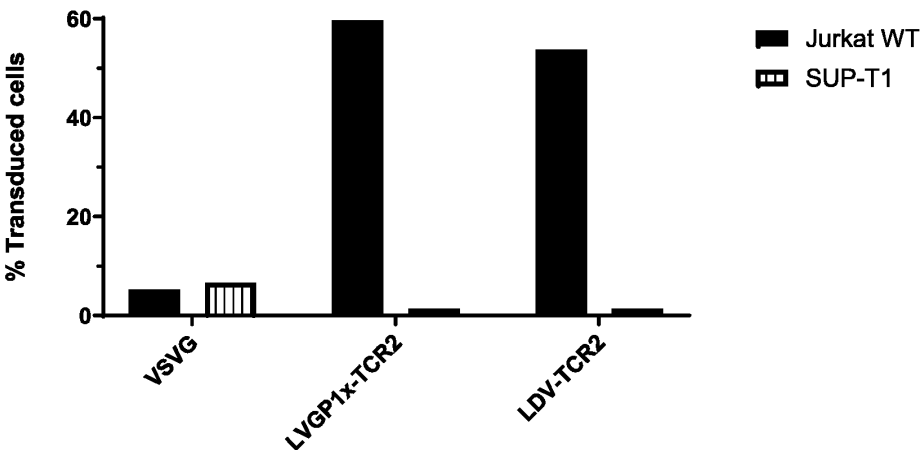


Fig. 7

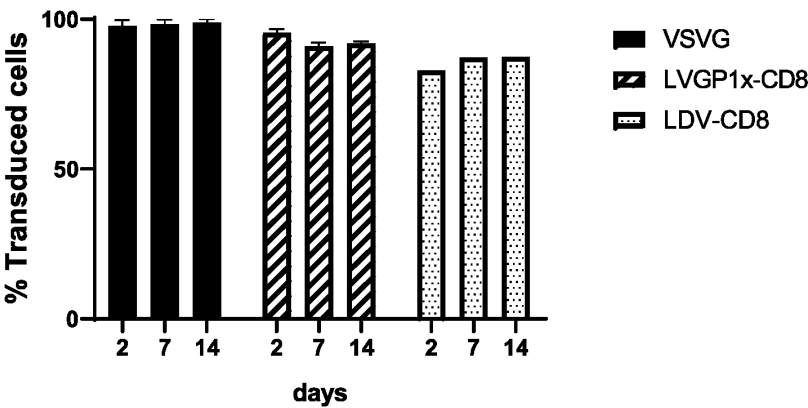


Fig. 8

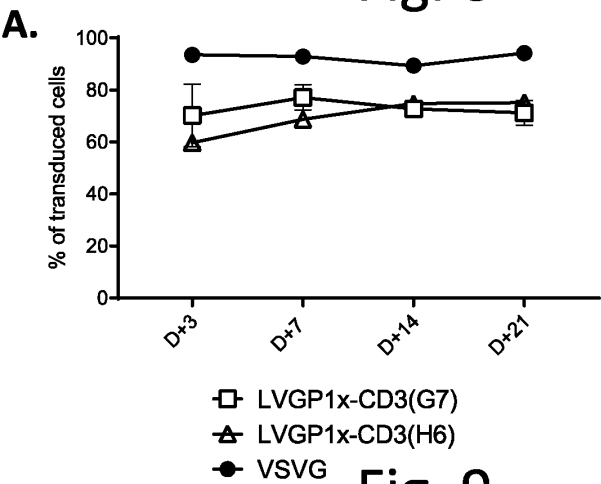


Fig. 9

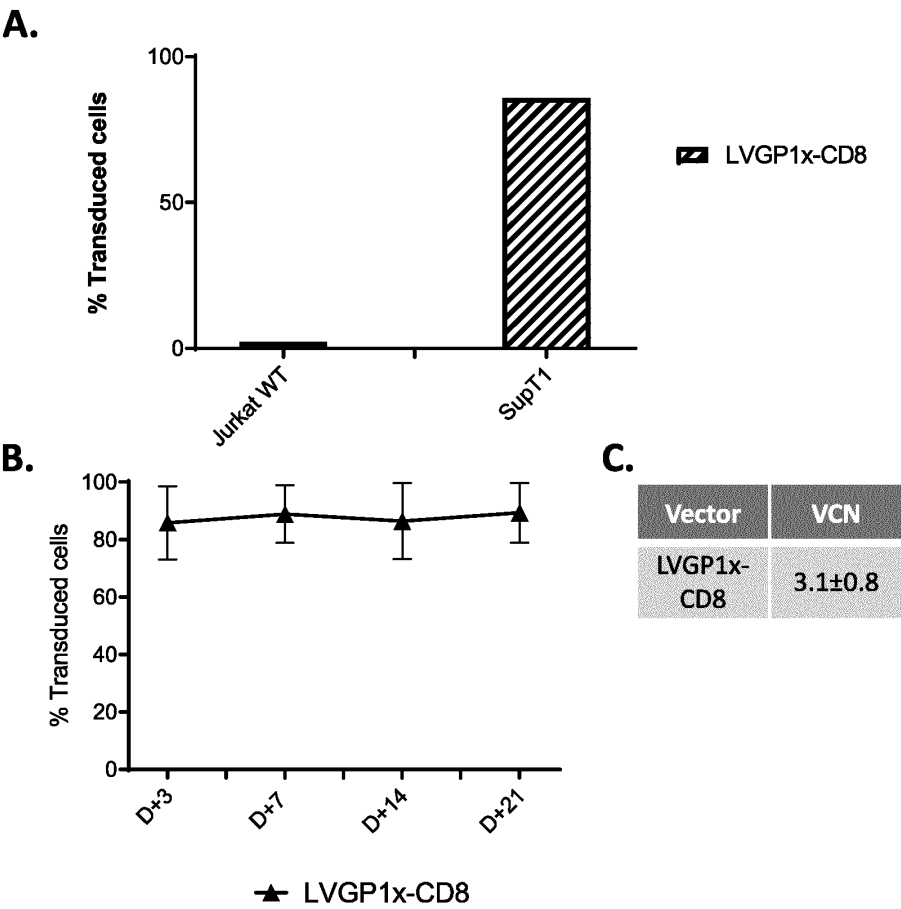


Fig. 10A-10C

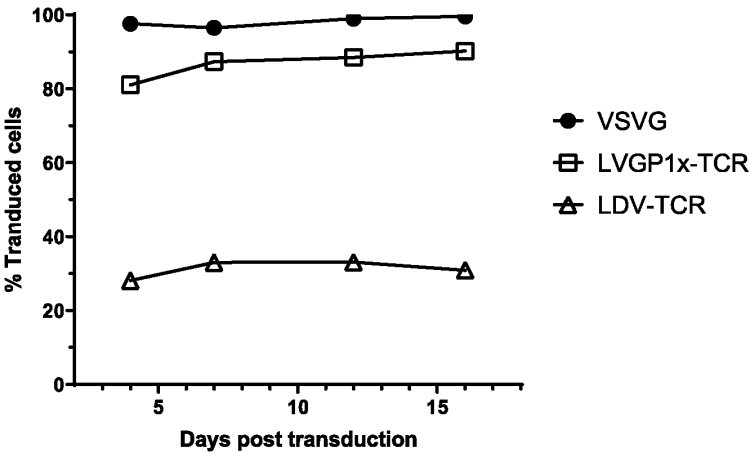


Fig. 11

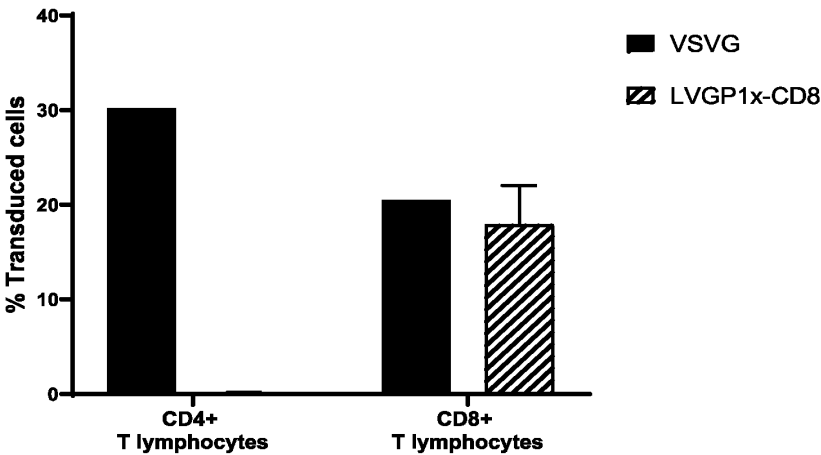
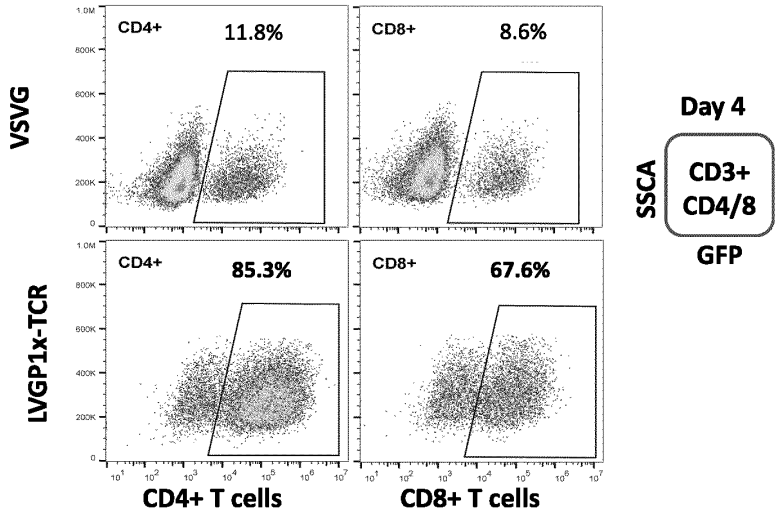


Fig. 12

A.



B.

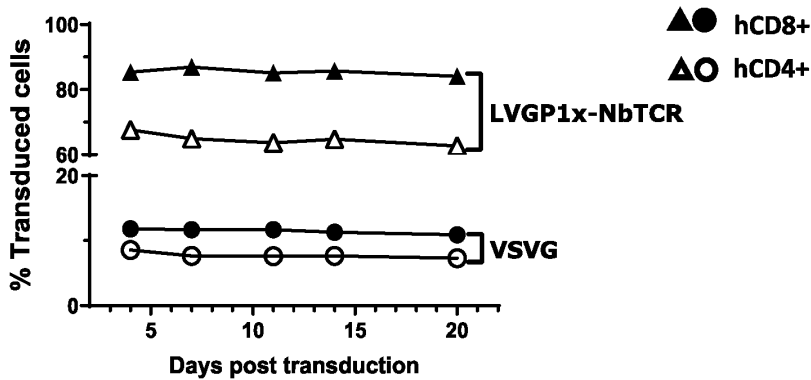


Fig. 13A-13B

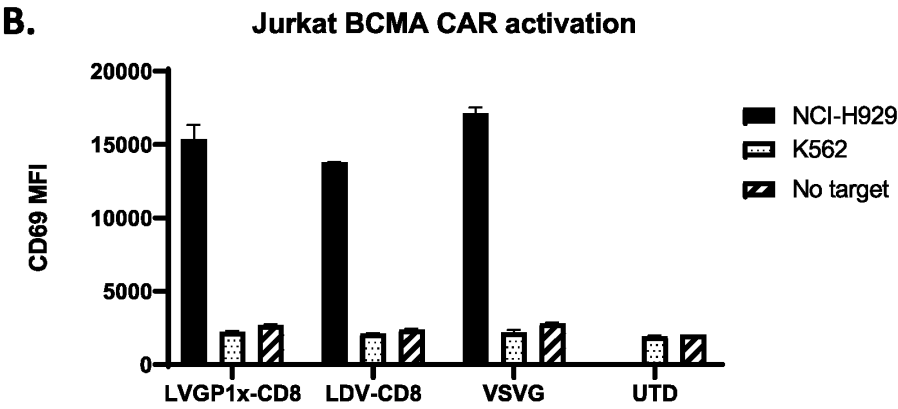
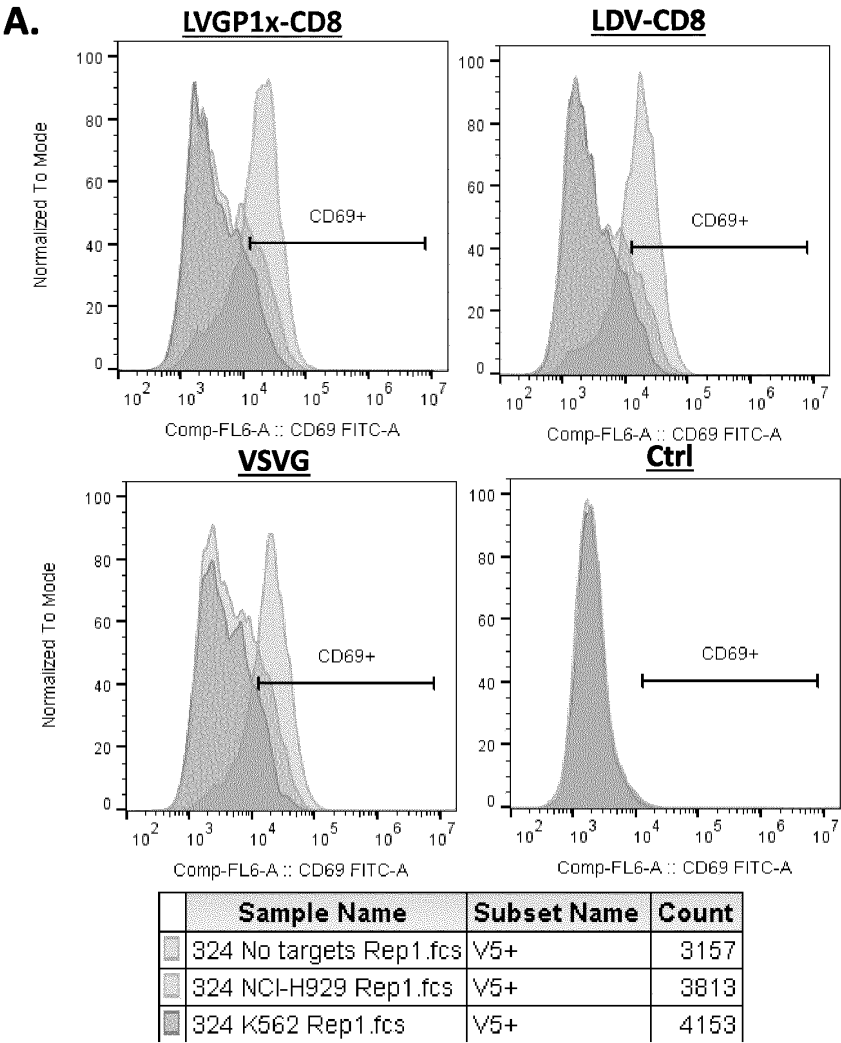


Fig. 14A-14B

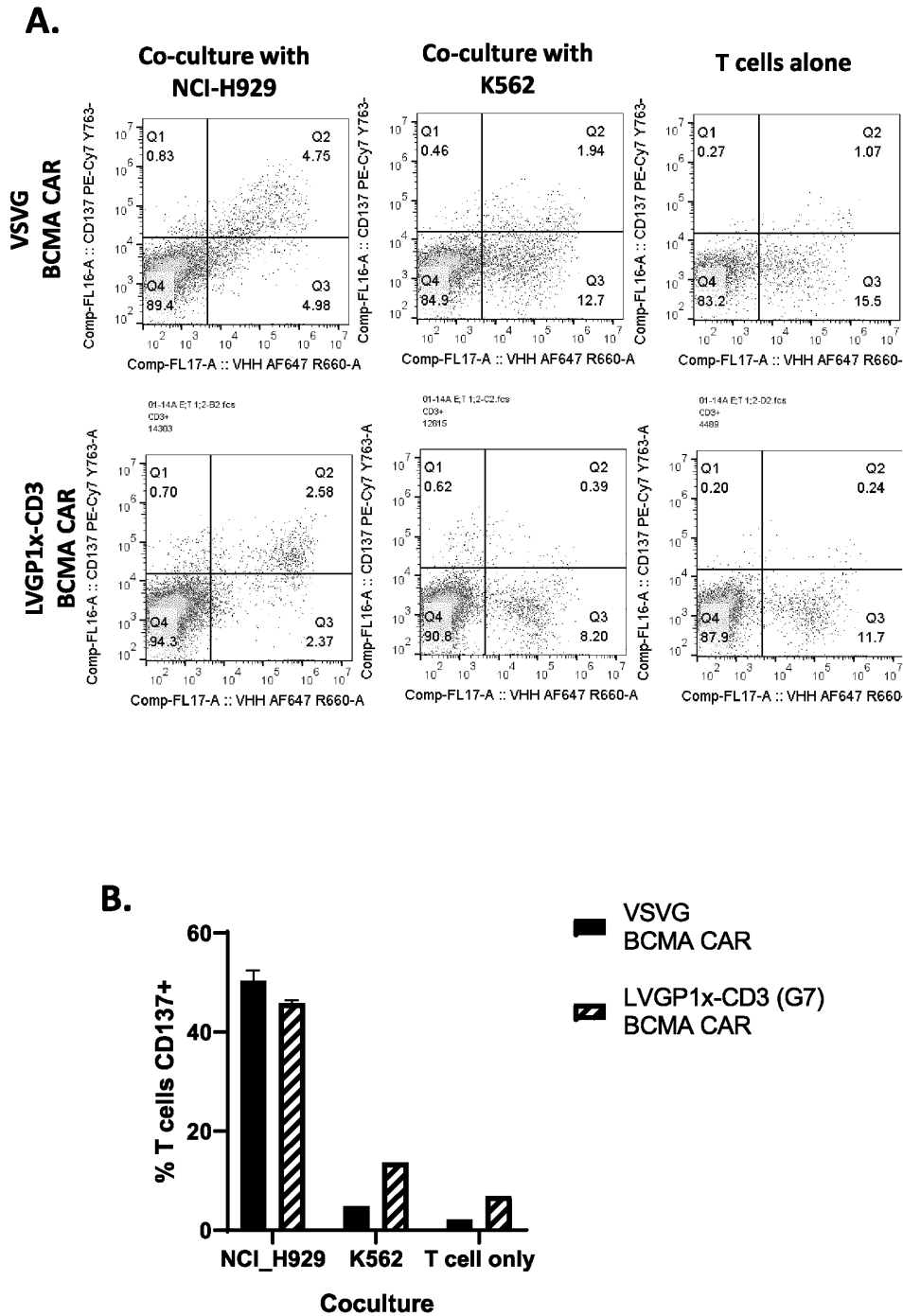


Fig. 15A-15B

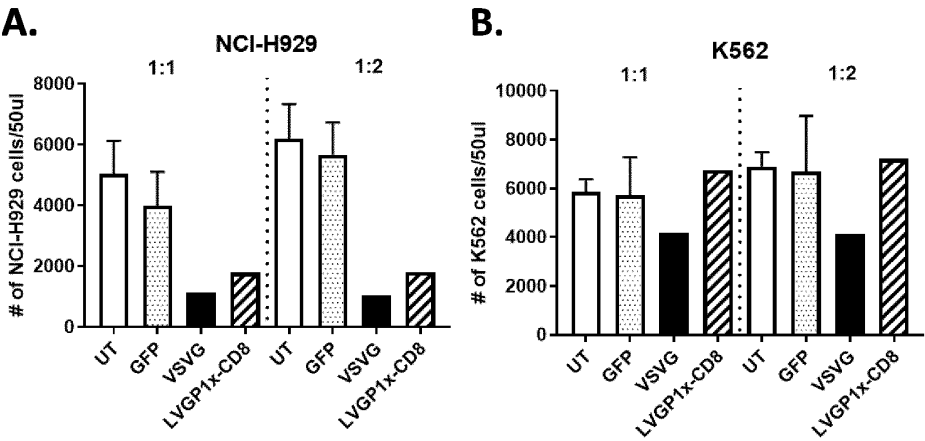


Fig. 16A-B

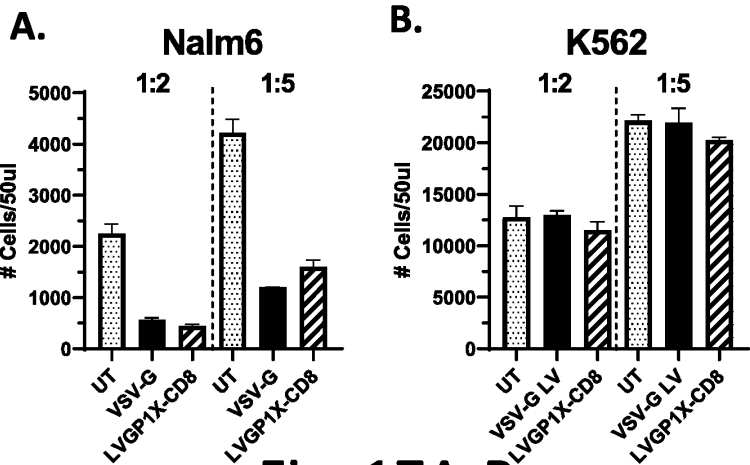


Fig. 17A-B

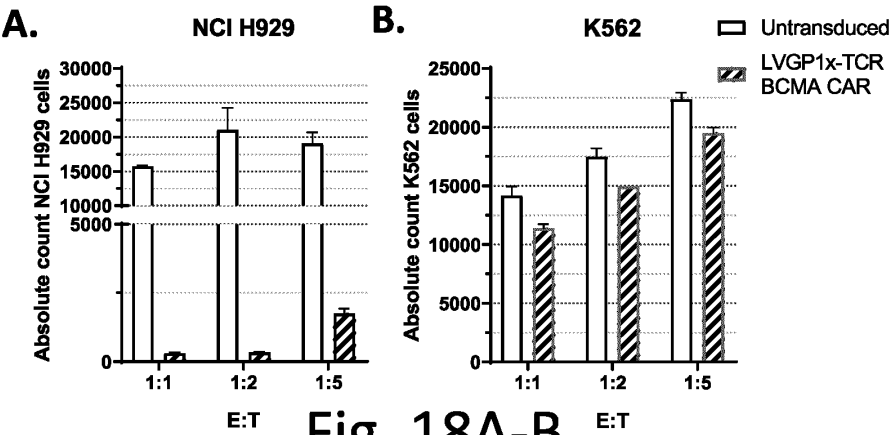
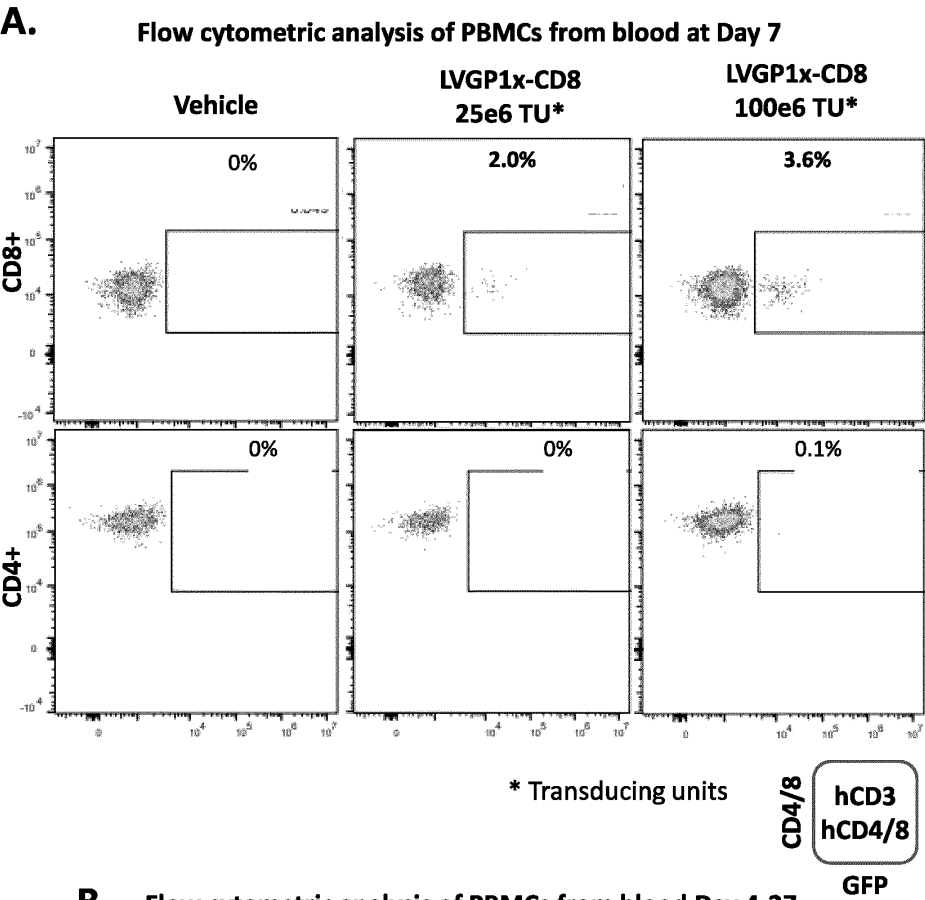


Fig. 18A-B



B. Flow cytometric analysis of PBMCs from blood Day 4-27

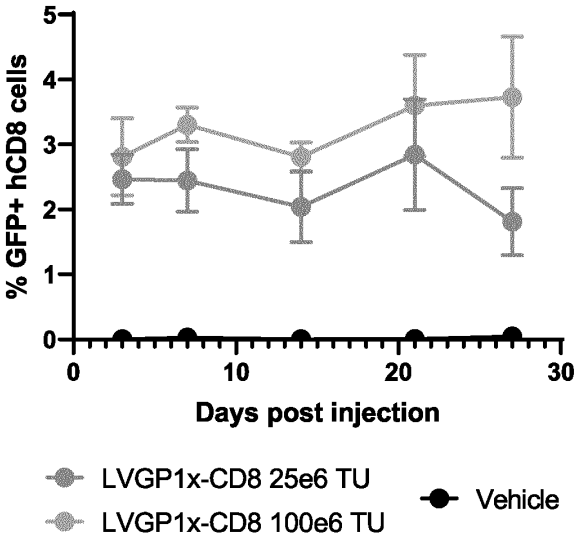


Fig. 19A-19B

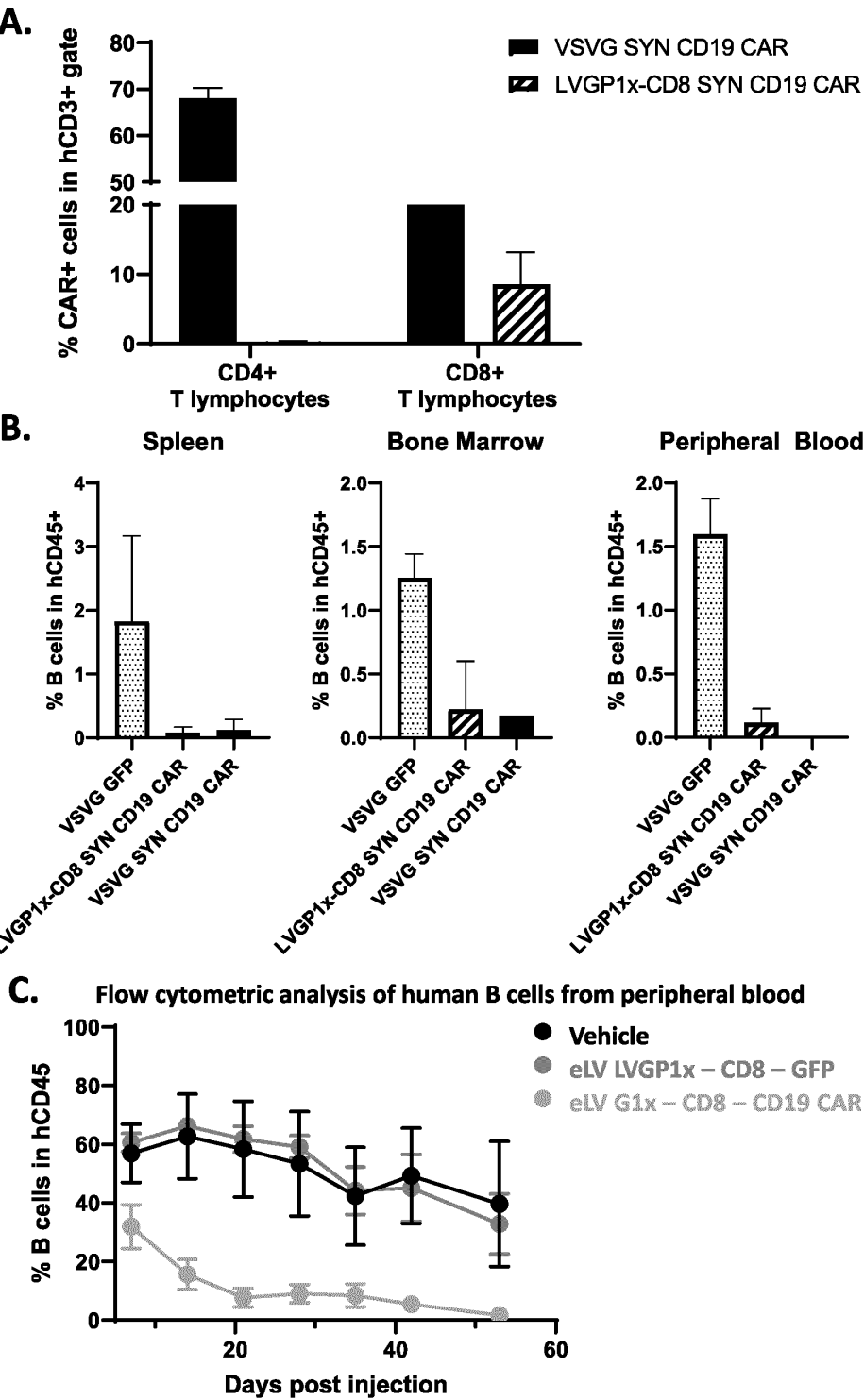
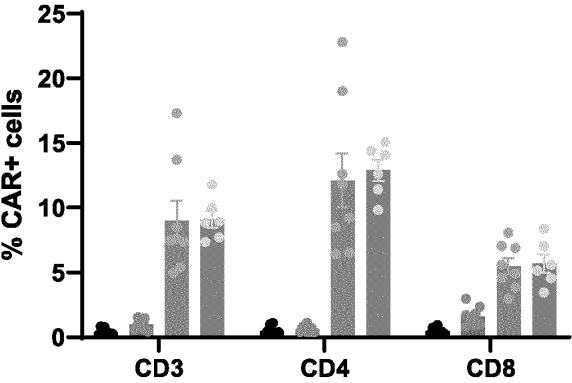


Fig. 20A-20C

D. T cell transduction at Day 7



E. B cell aplasia at 7 days

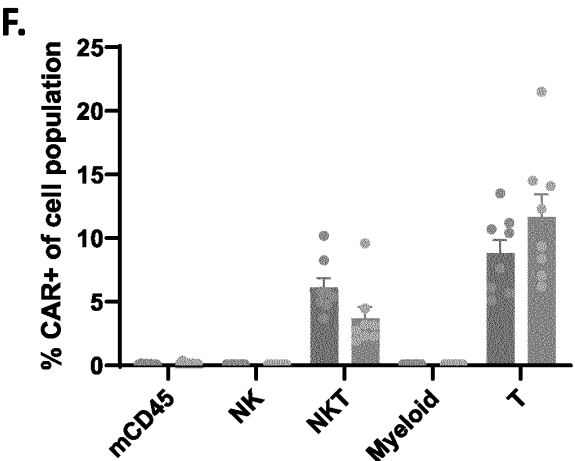
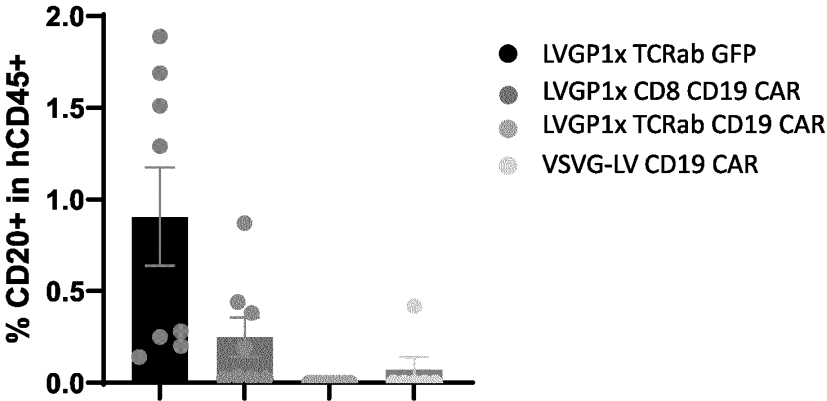


Fig. 20D-20F

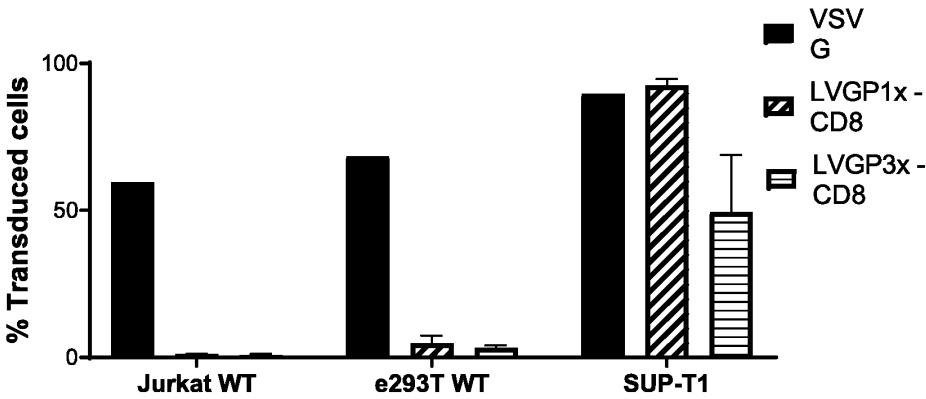


Fig. 21

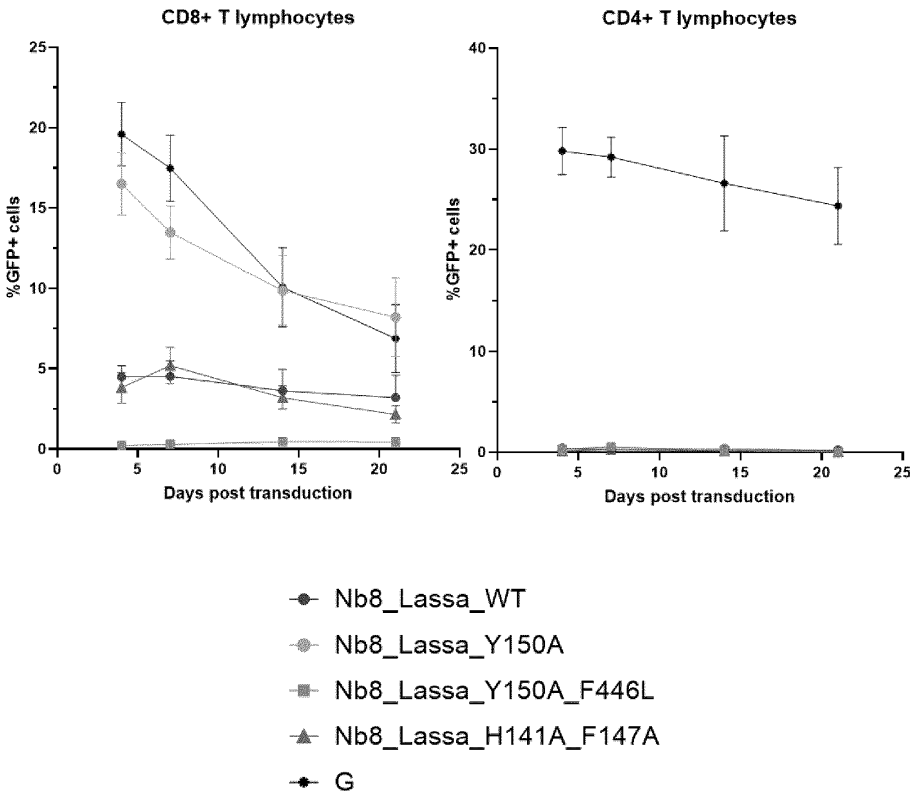
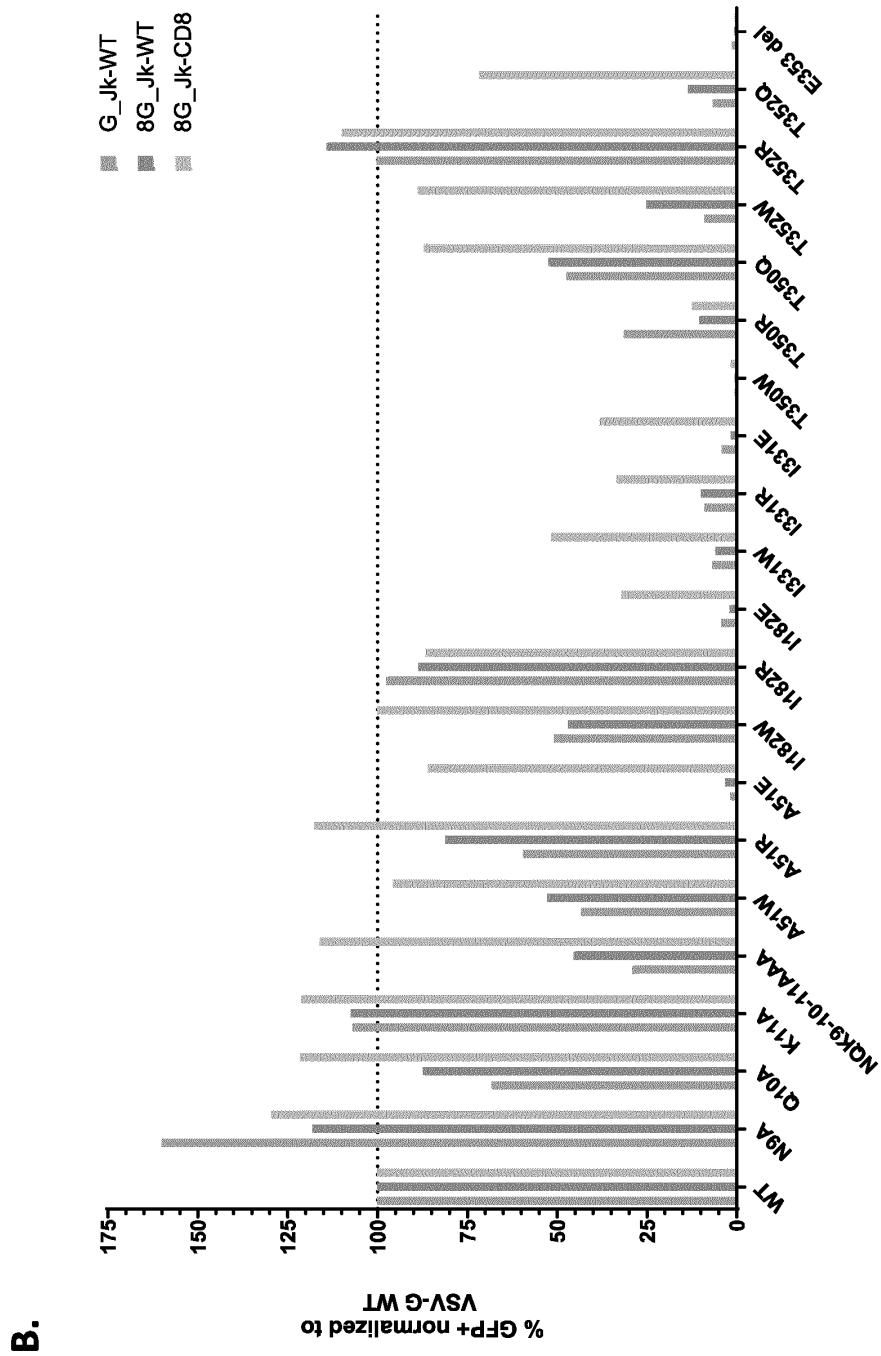


Fig. 22

A.

Position	Mutation 1	Mutation 2	Mutation 3	Mutation 4	Mutation 5	Mutation 6	Mutation 7	Mutation 8
H8	F	L	S	Y	V			
N9	A	Q	G	H	R	T		
Q10	A	V						
K11	A							
M45	L							
K47	G	T	W					
S48	L	R						
H49	A							
K50	S	H						
A51	W	R	E	P				
I52	R	T	V					
Q53	A	I						
I182	W	R	E					
T328	S							
R329	V	K	H					
Y330	M							
I331	W	R	E	L	Q	M		
V333	I	Y						
T350	W	R	Q					
T351	R	D	S					
T352	W	R	Q	S	V	E	I	D
E353	del	S	K					
R354	K	M						
E355	L	R						

Fig. 23A



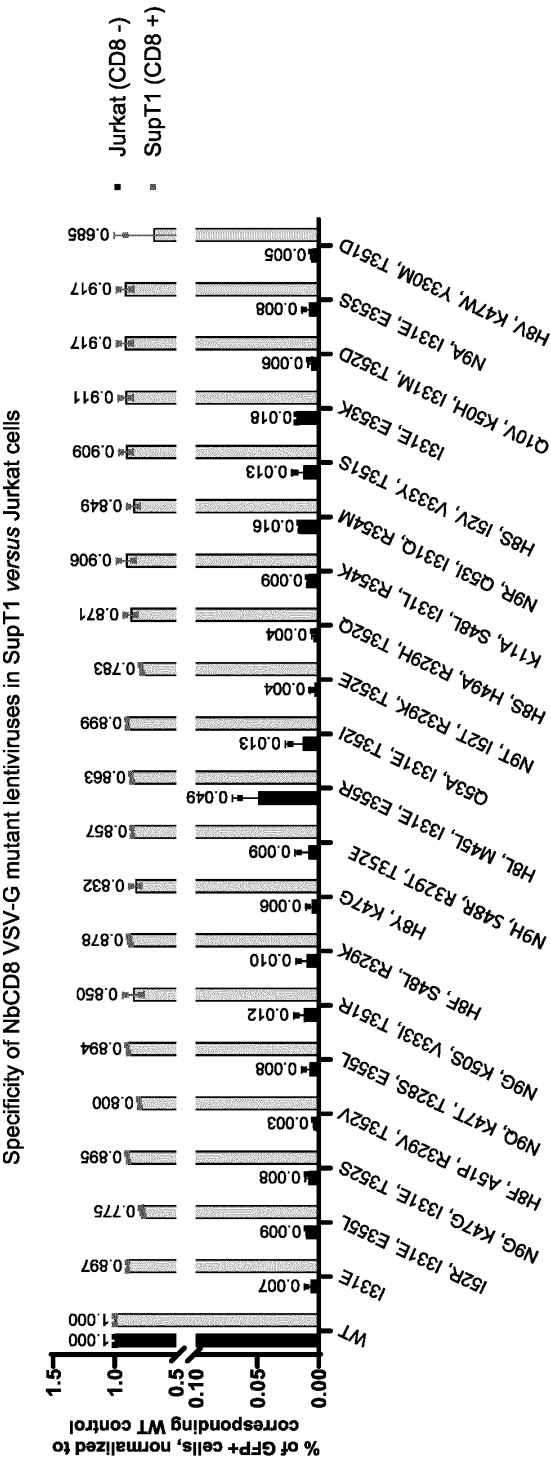


Fig. 23C

C.

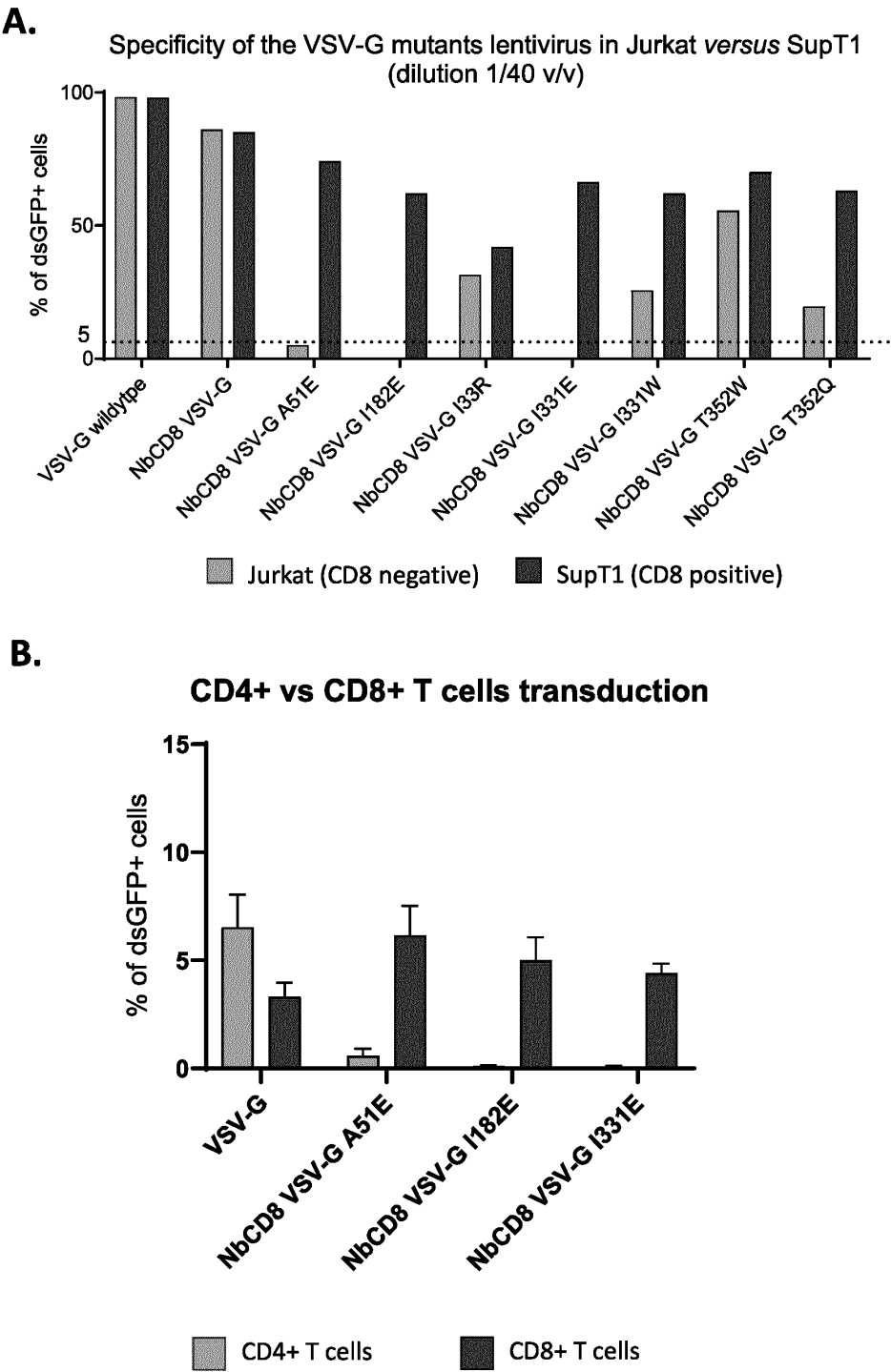


Fig. 24A-24B

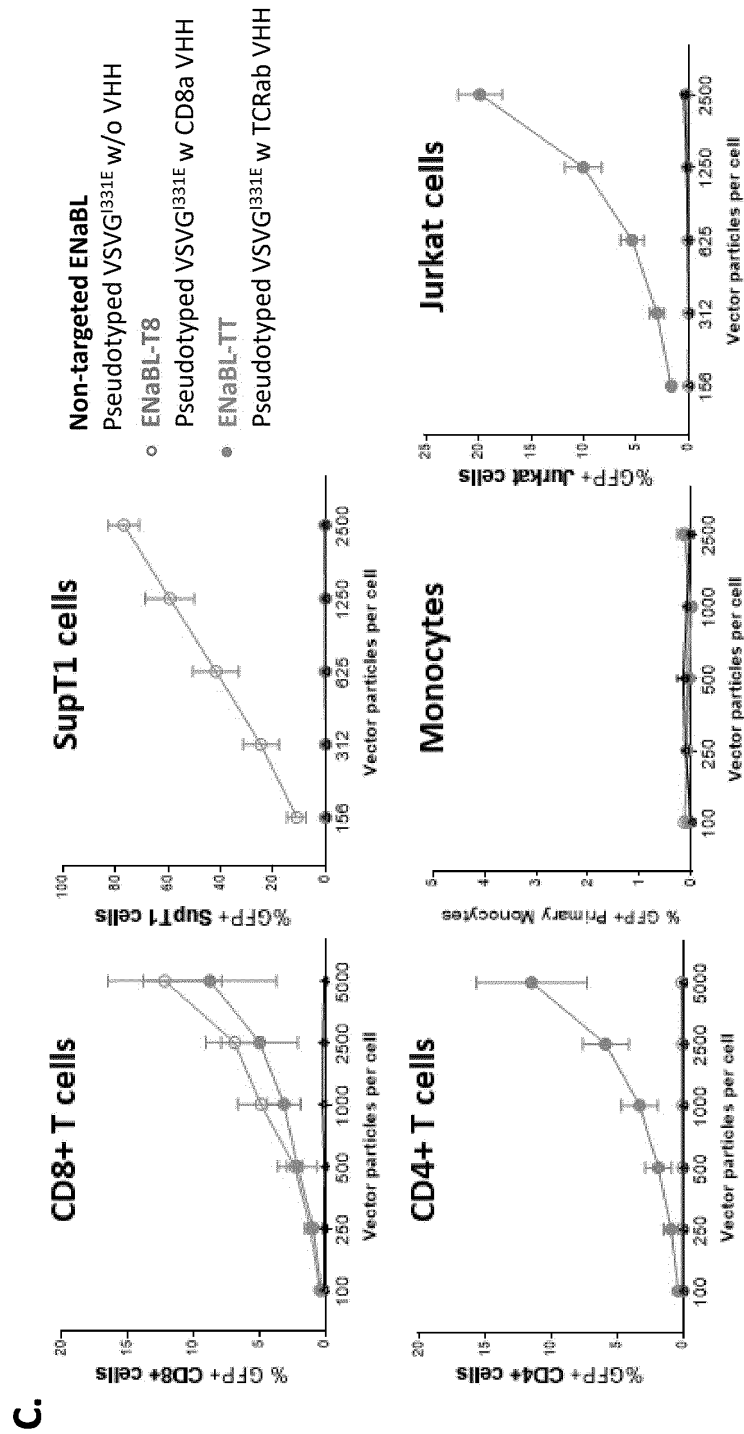


Fig. 24C

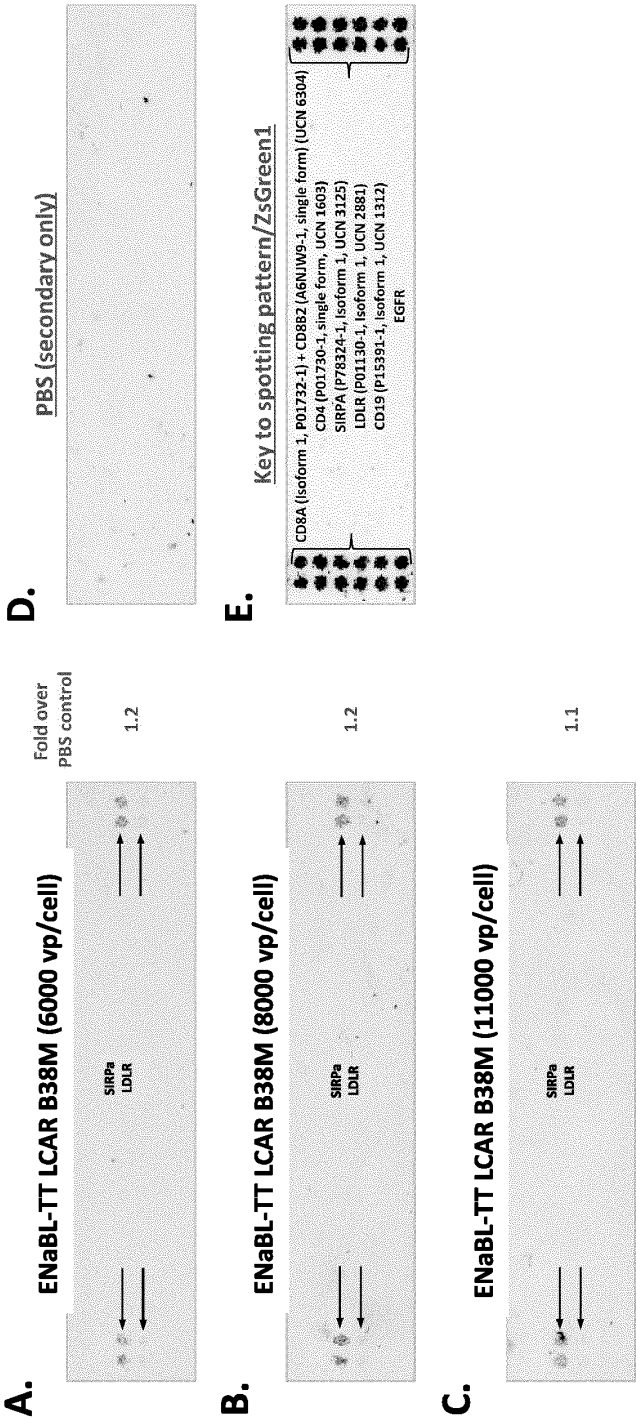
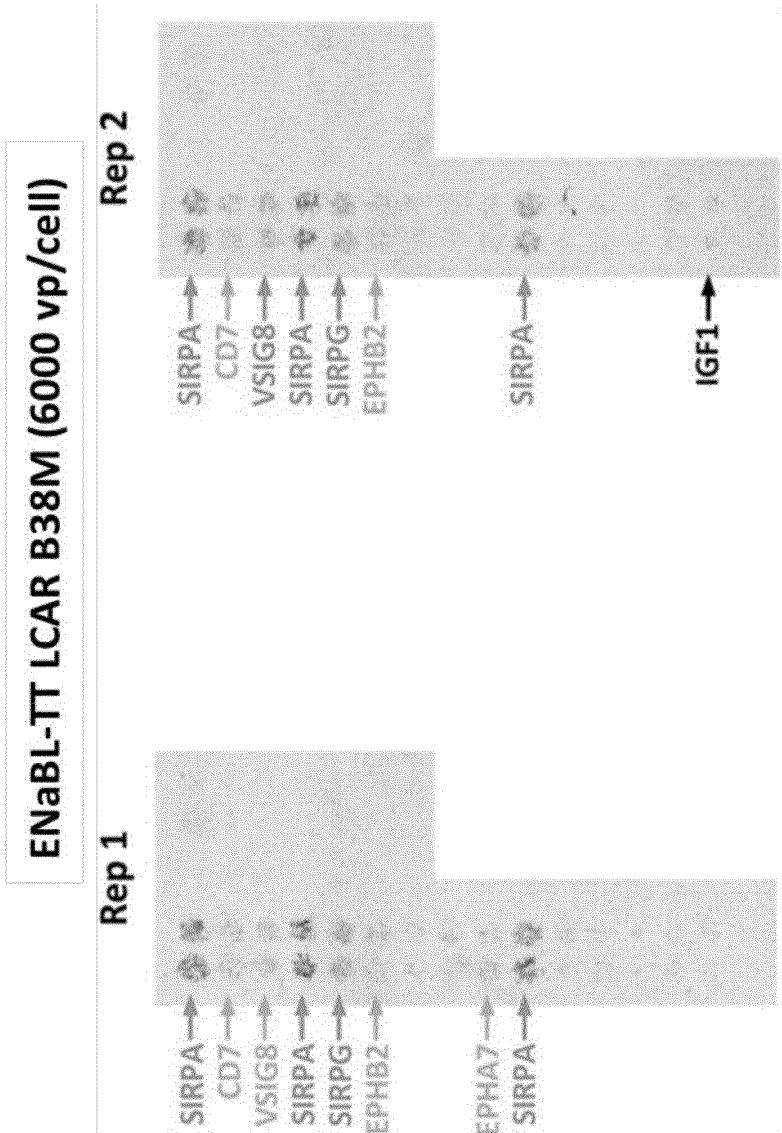


Fig. 25A-25E



F

Fig. 25F

G

Sample ID	Gene ID	Unique Clone Number (UCN)	Protein Name	UniProt ID	Library Screen (Fixed Cells)		Confirmation Screen (Fixed Cells)	
					Rep 1	Rep 2	Rep 1	Rep 2
ENaBL-TT LCAR B38M	SIRPA	0577	Tyrosine-protein Phosphatase Non-receptor Type Substrate 1	P78324-4	Strong	Medium	Med/Strong	Med/Strong
	CD7	0753	T-cell Antigen CD7	P09564-1	V.Weak	V.Weak	Weak	Weak
	VSIG8	1117	V-set And Immunoglobulin Domain-containing Protein 8	P0DPA2-1	V.Weak	V.Weak	Weak	Weak/Med
	SIRPA	1365	Tyrosine-protein Phosphatase Non-receptor Type Substrate 1	P78324-2	Med/Strong	Med/Strong	Med/Strong	Med/Strong
	SIRPG	1428	Signal-Regulatory Protein Gamma	Q9P1W-8-1	Medium	Medium	Medium	Medium
	EPHB2	1777	Ephrin Type-B Receptor 2	P29323-3	V.Weak	V.Weak	Weak	Weak
	EPHA7	2704	Ephrin Type-A Receptor 7	Q15375-1	V.Weak	V.Weak	Weak	V.Weak
	SIRPA	3125	Tyrosine-protein Phosphatase Non-receptor Type Substrate 1	P78324-1	Medium	Medium	Med/Strong	Medium

Fig. 25G

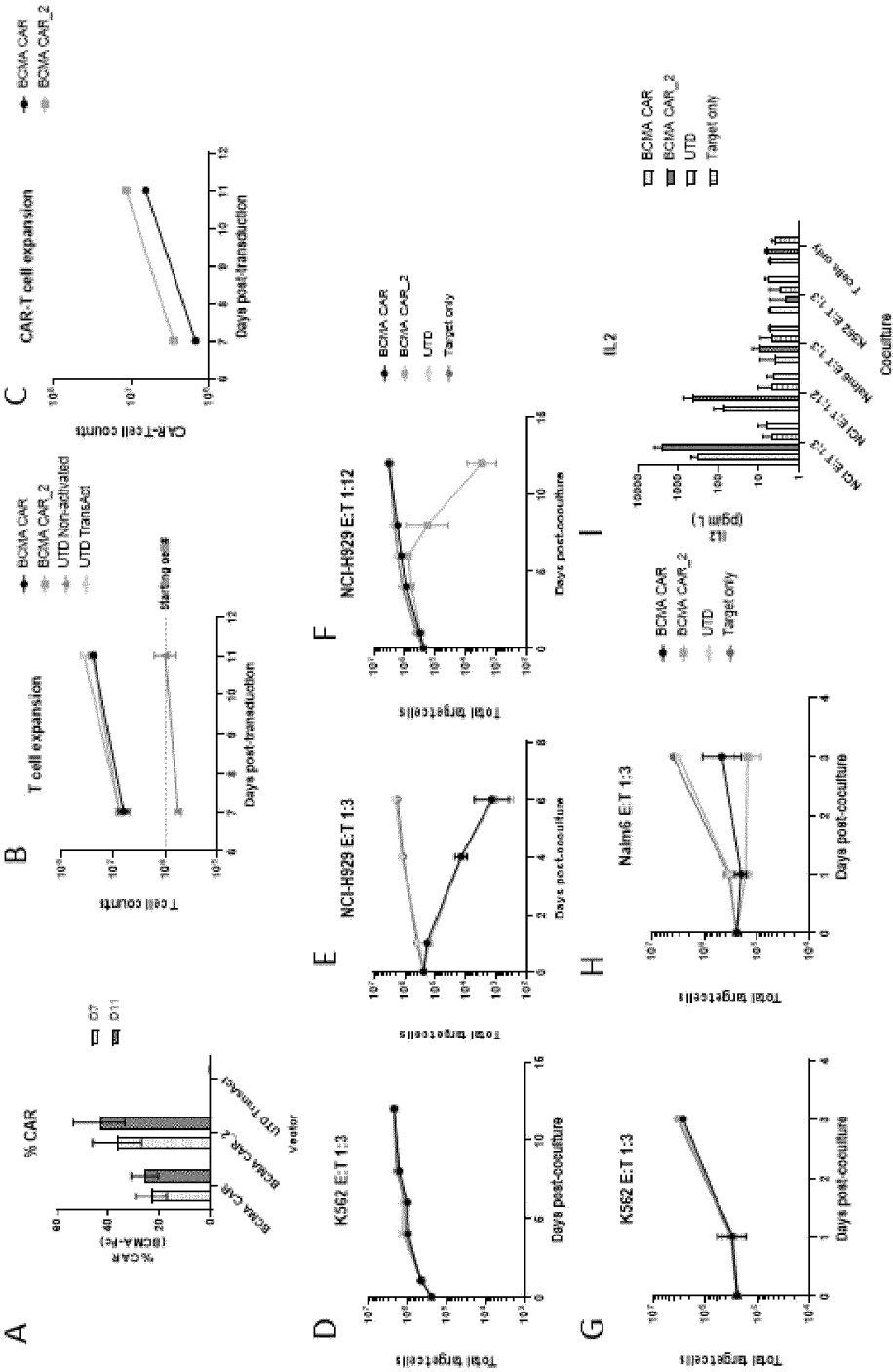


Fig. 26A-26I

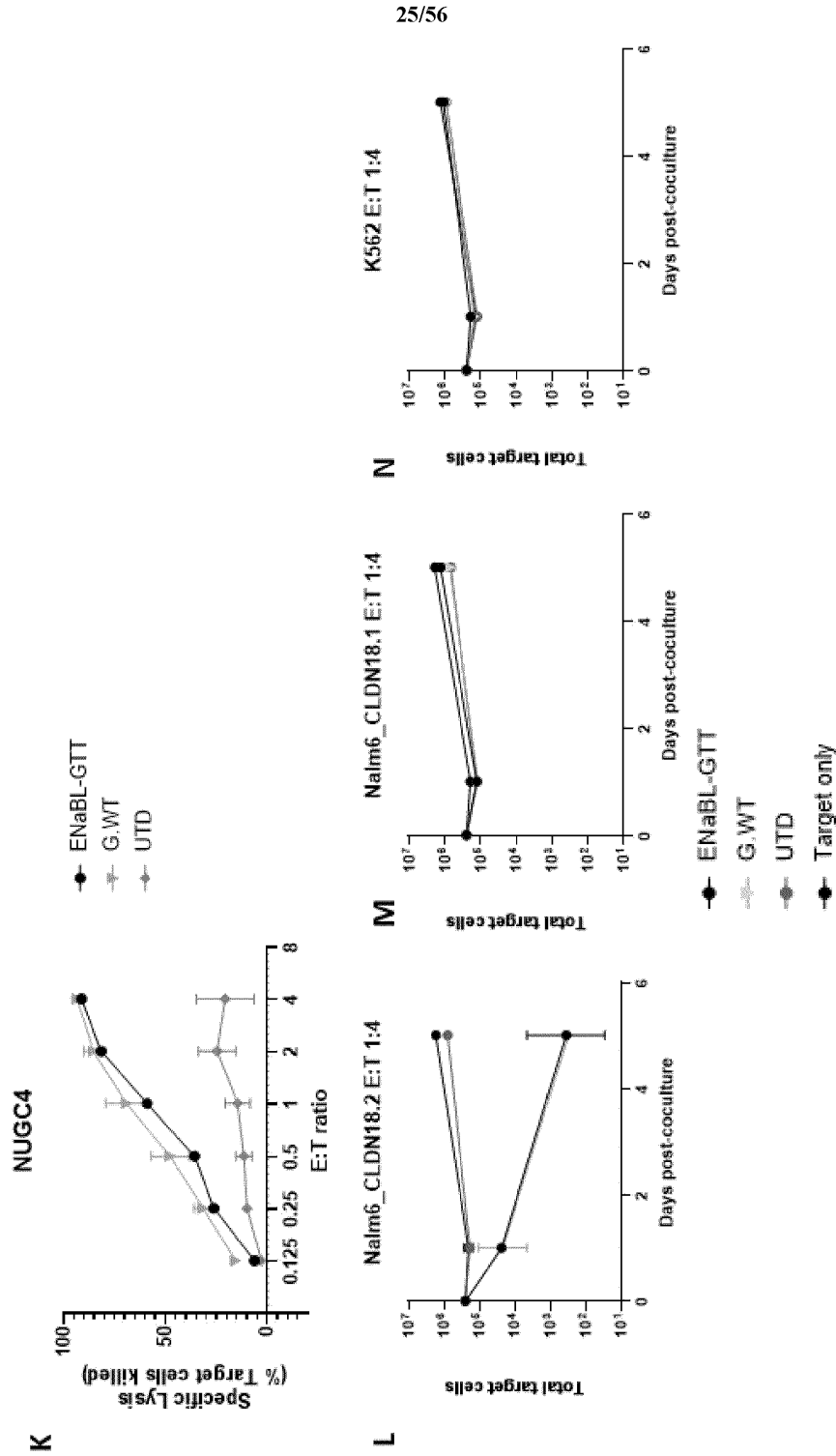


Fig. 26K-26N

Building Blocks Of Synthetic Promoters

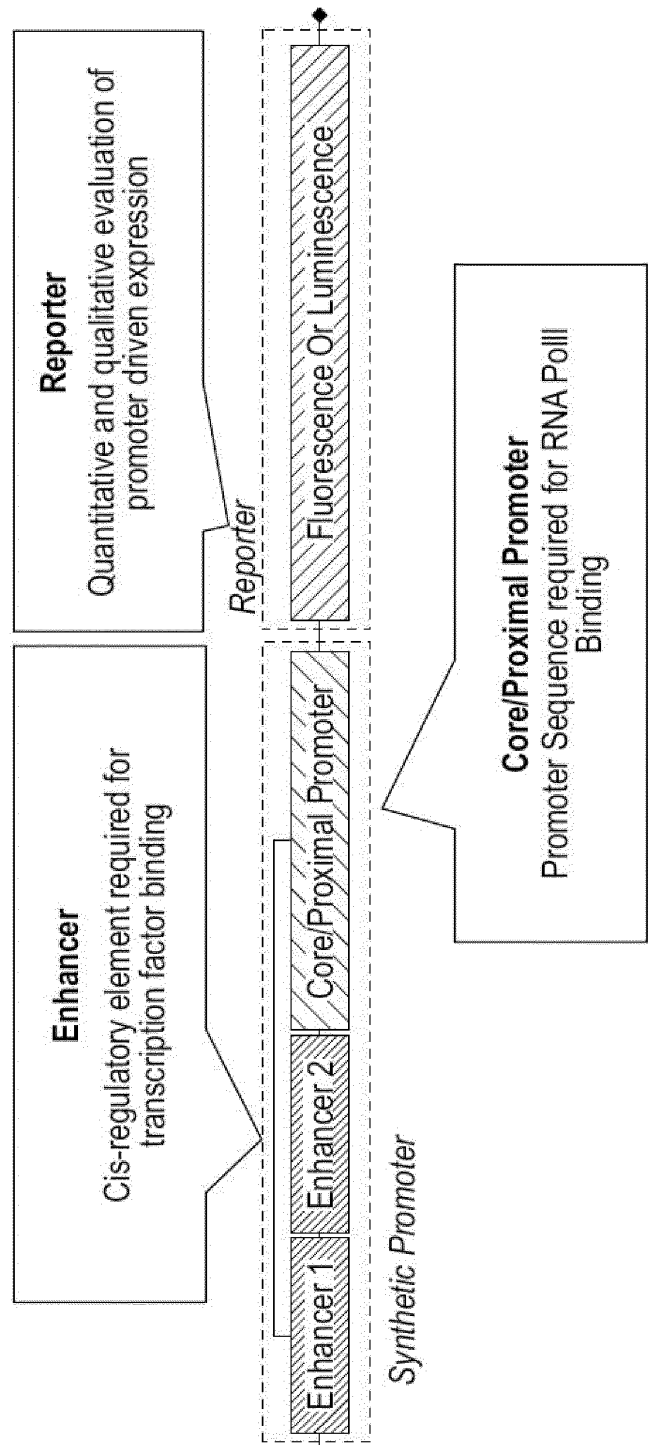


Fig. 27

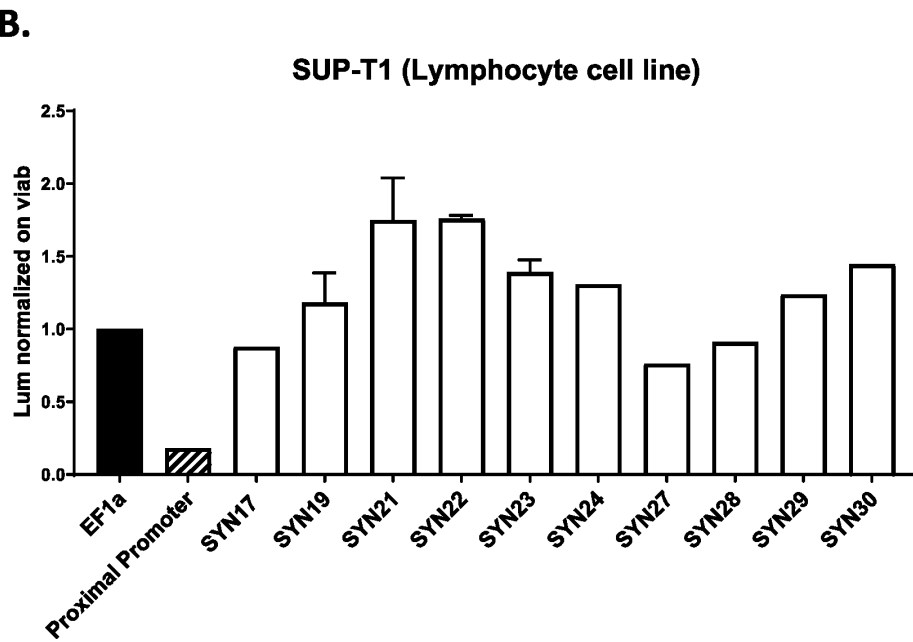
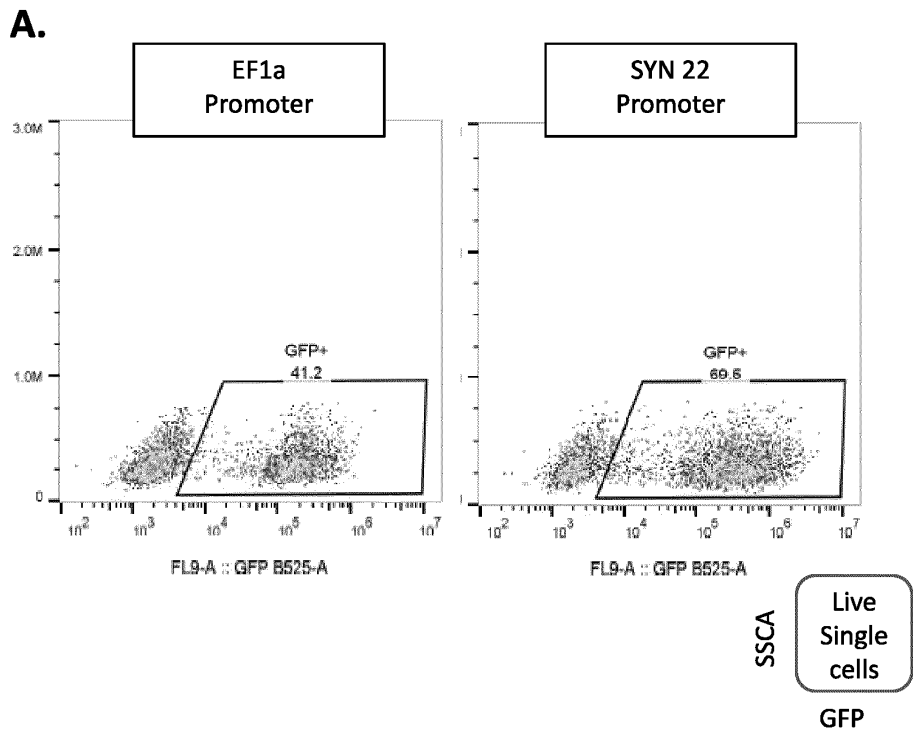


Fig. 28A-28B

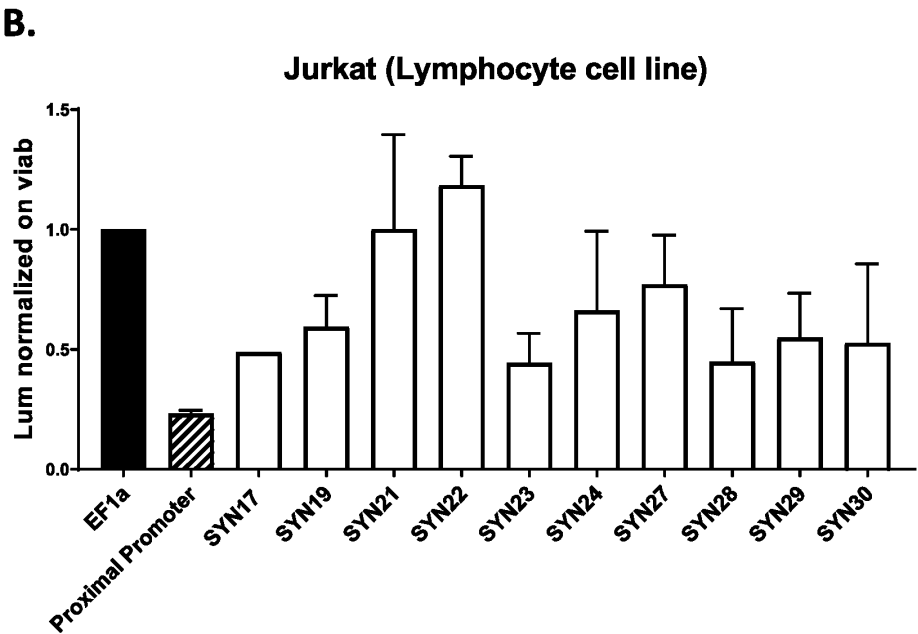
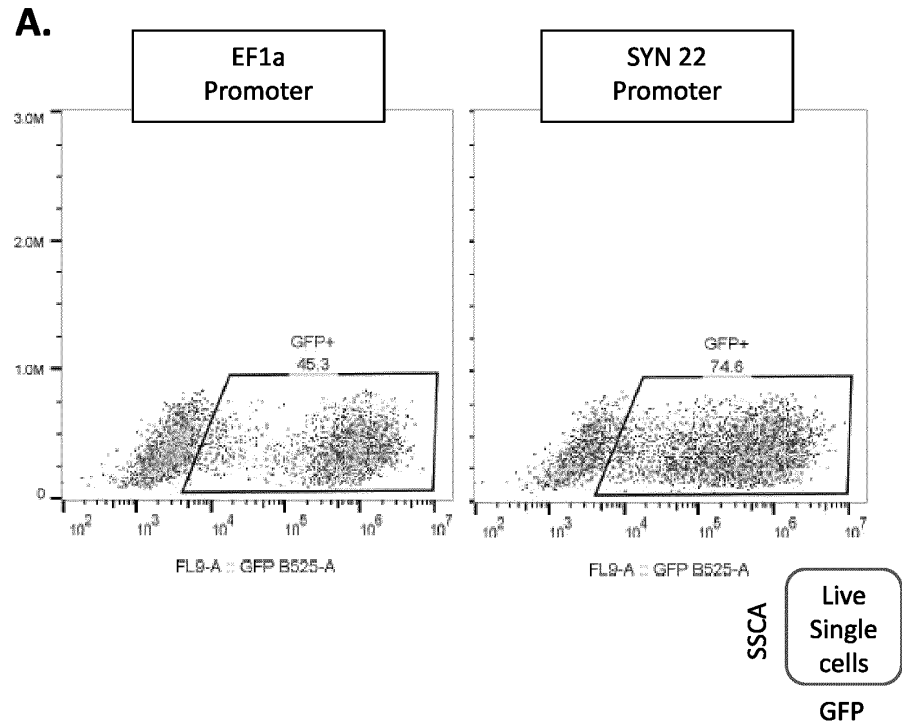


Fig. 29A-29B

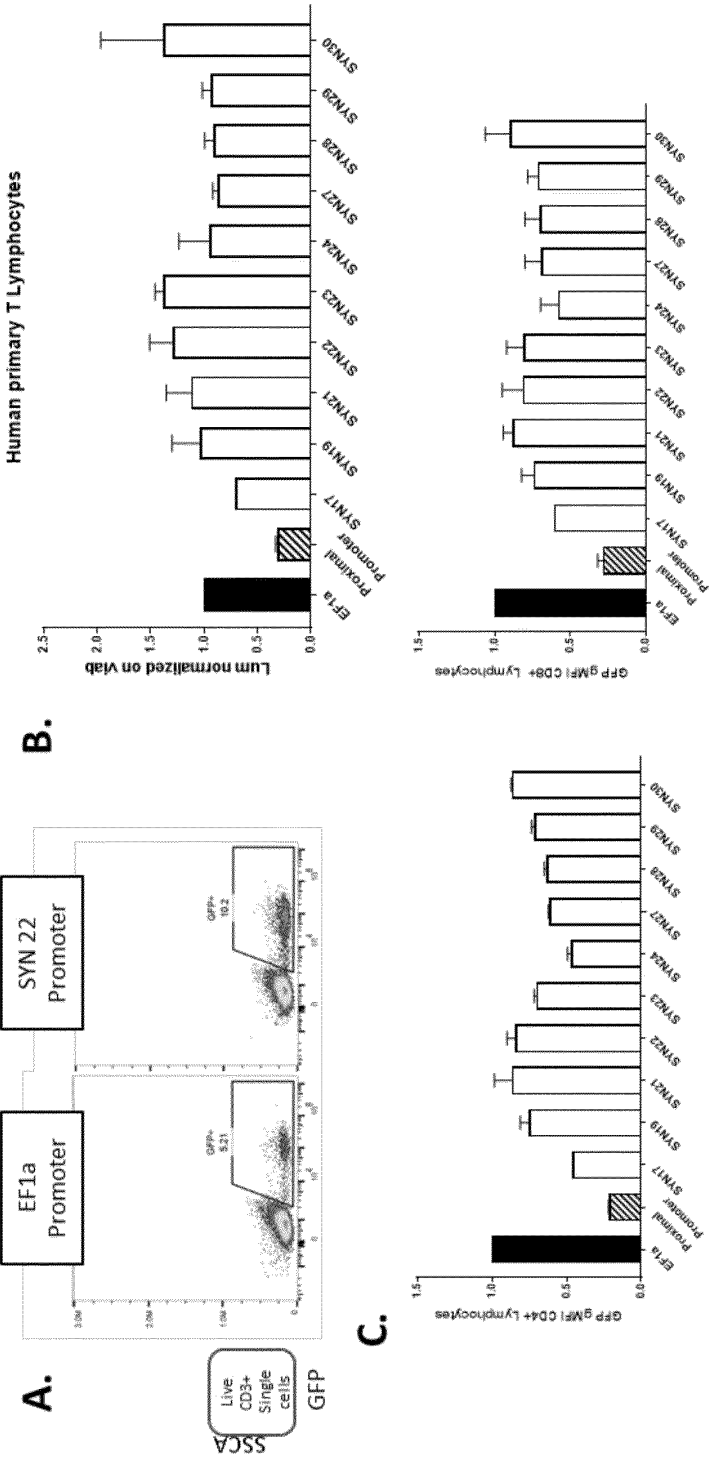
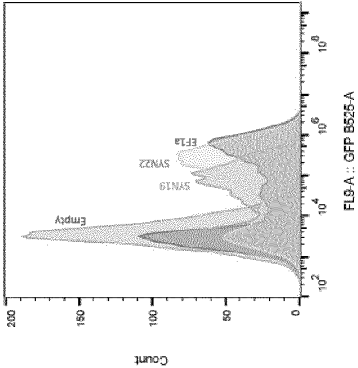


Fig. 30A-30C

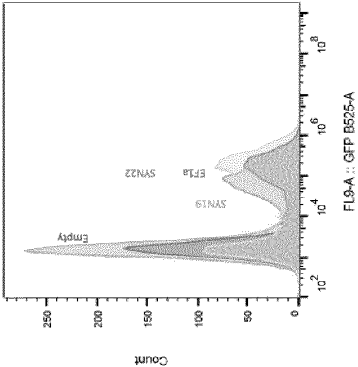
D.

Jurkat



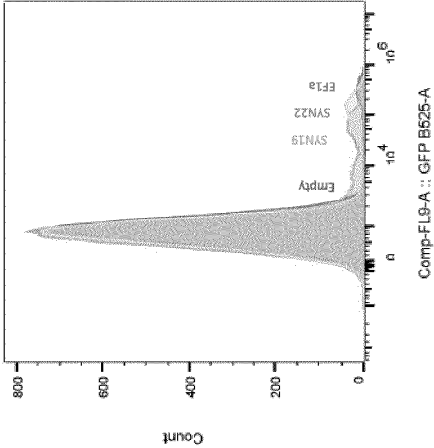
Sample Name	Subset Name	Count
Jk_Ehr022_D3.fcs	Live	6419
Jk_Ehr019_D3.fcs	Live	5951
Jk_Empty_D3.fcs	Live	5395
Jk_EF1a_D3.fcs	Live	5297

SUP-T1



Sample Name	Subset Name	Count
SupT1_Ehr022_D3.fcs	Live	5100
SupT1_Ehr019_D3.fcs	Live	5383
SupT1_Empty_D3.fcs	Live	5070
SupT1_EF1a_2_D3.fcs	Live	5078

Primary T Lymphocytes



Sample Name	Subset Name	Count
PBMC_Ehr022_D3.fcs	CD3+	20955
PBMC_Ehr017_D3.fcs	CD3+	20180
PBMC_Empty_D3.fcs	CD3+	19489
PBMC_EF1a_2_D3.fcs	CD3+	19369

Fig. 30D

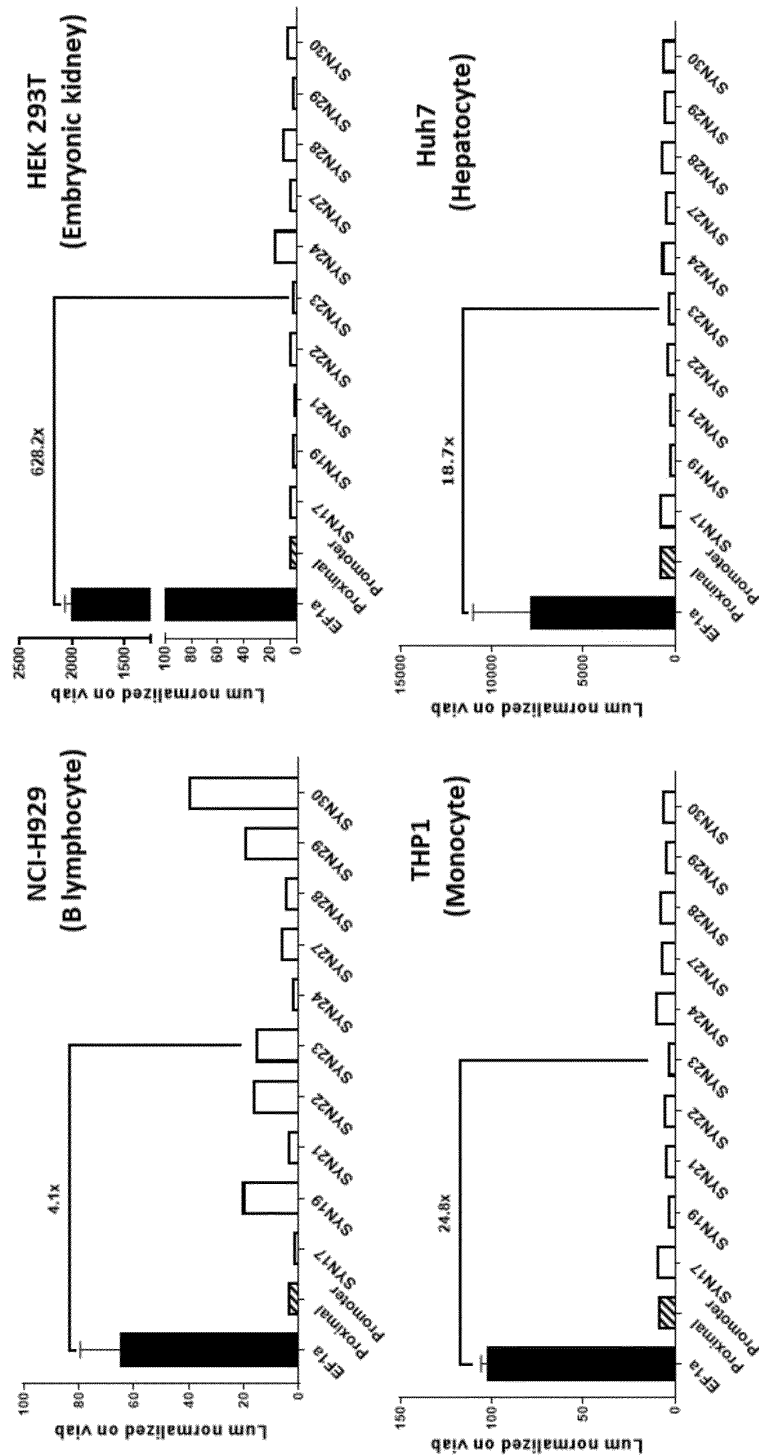


Fig. 31

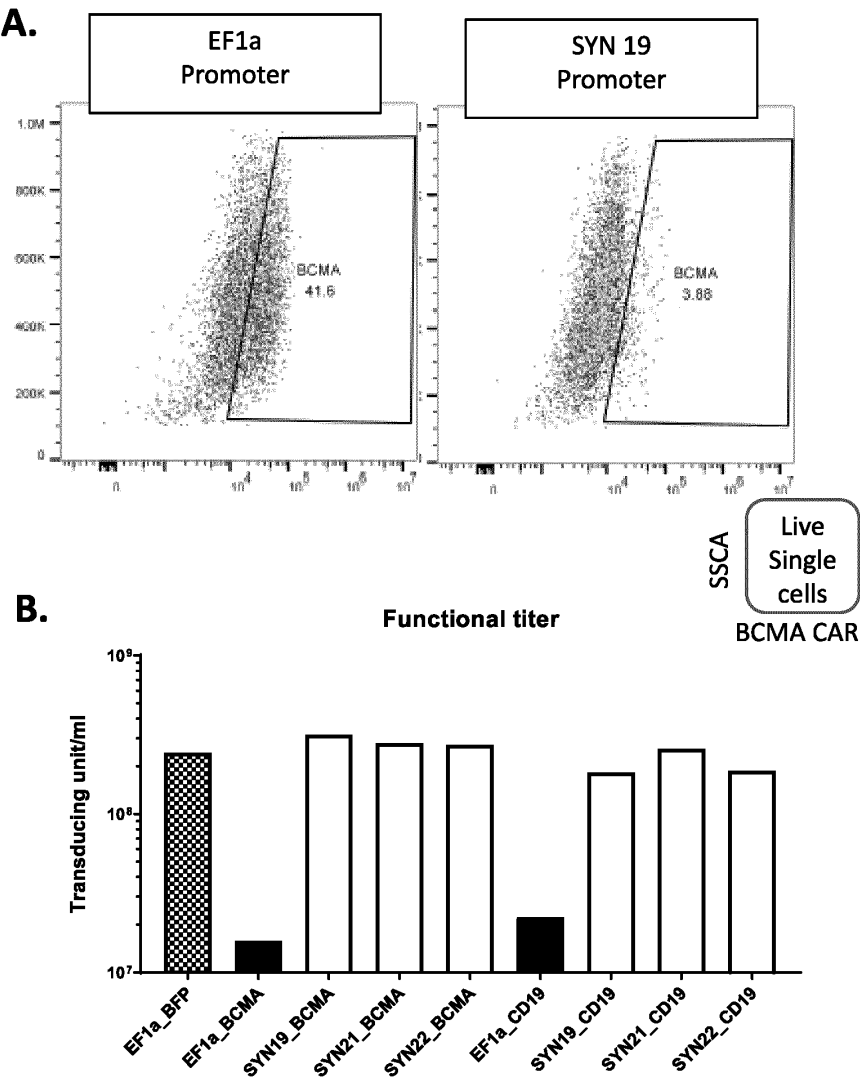


Fig. 32A-32B

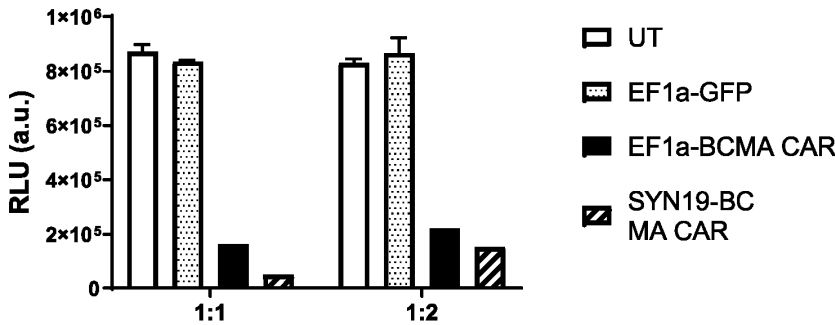


Fig. 33

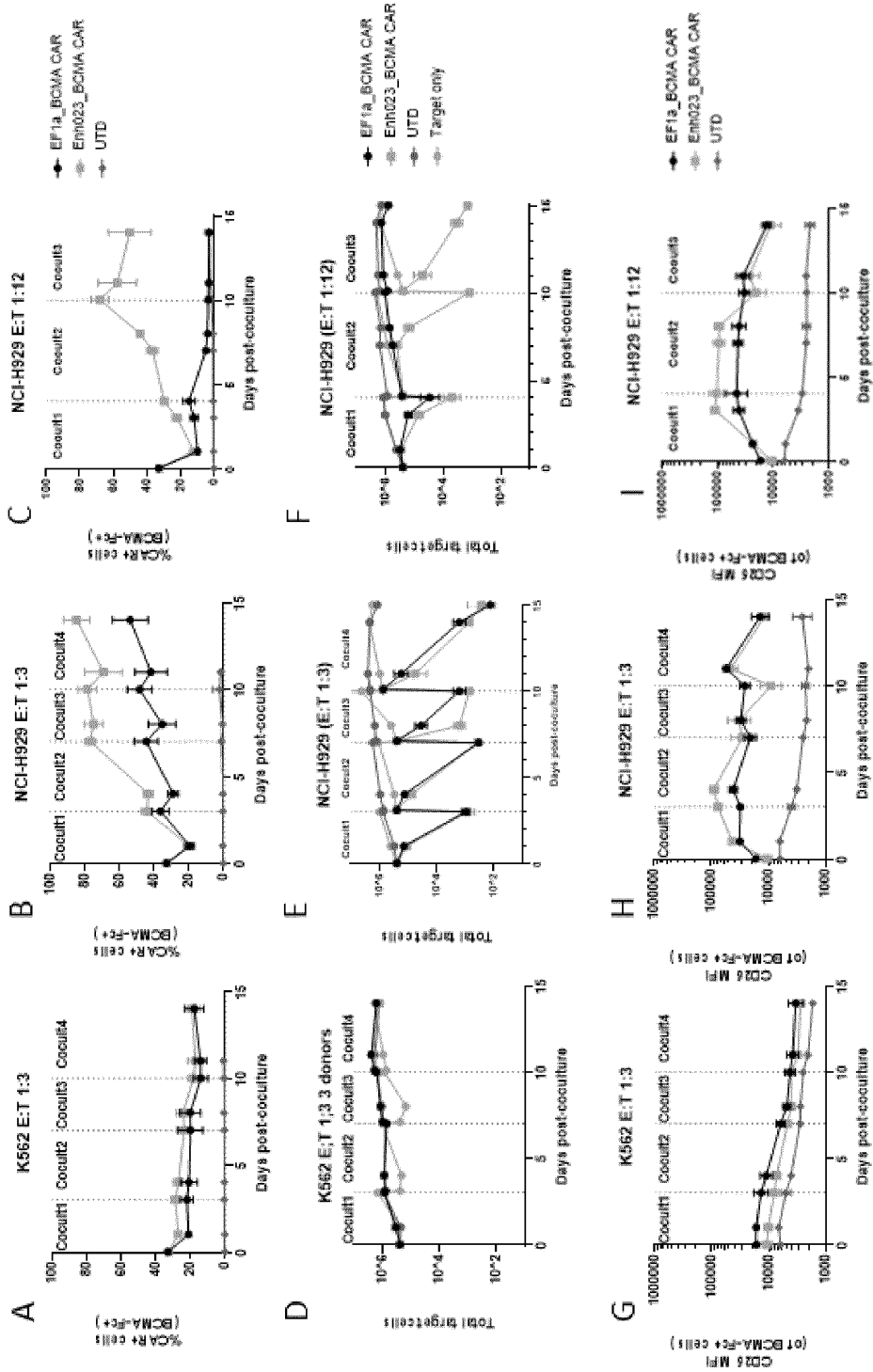
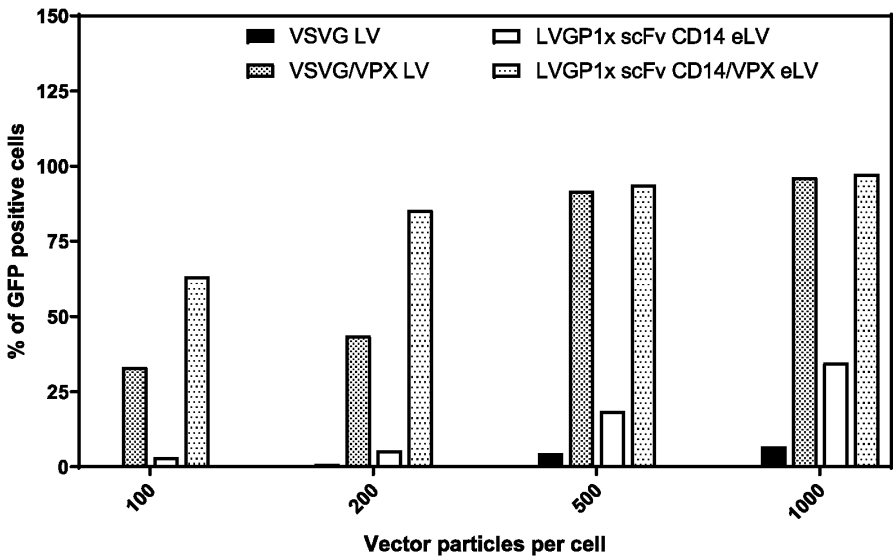


Fig. 34A-34I

A.



B.

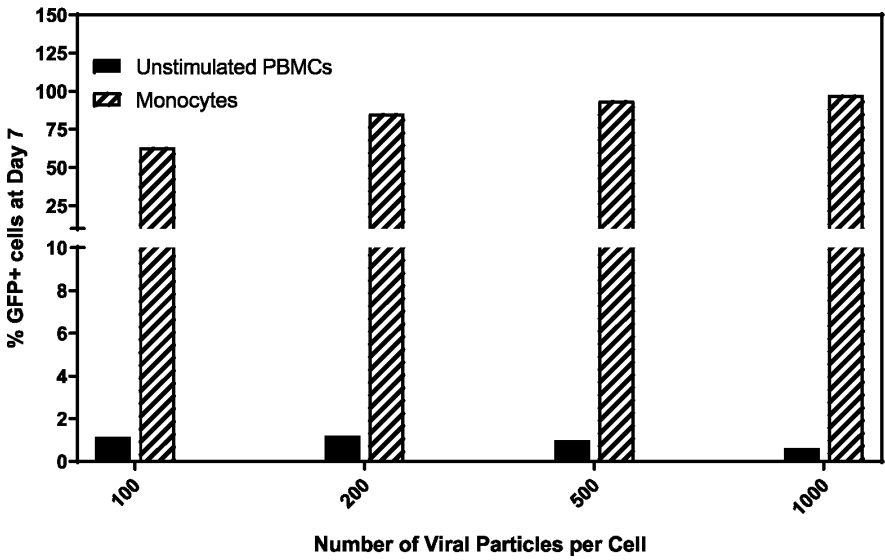


Fig. 35A-35B

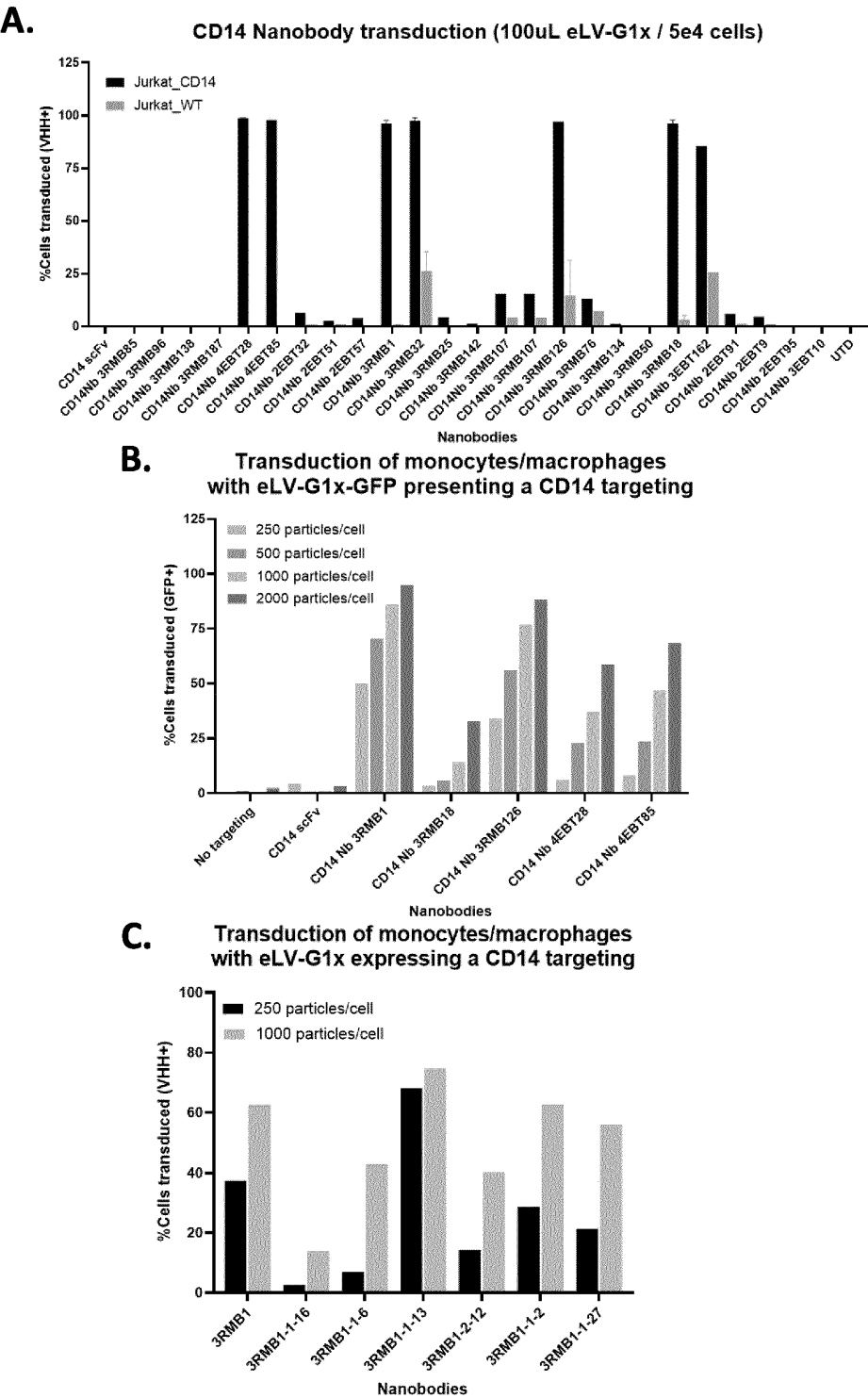


Fig. 36A-36C

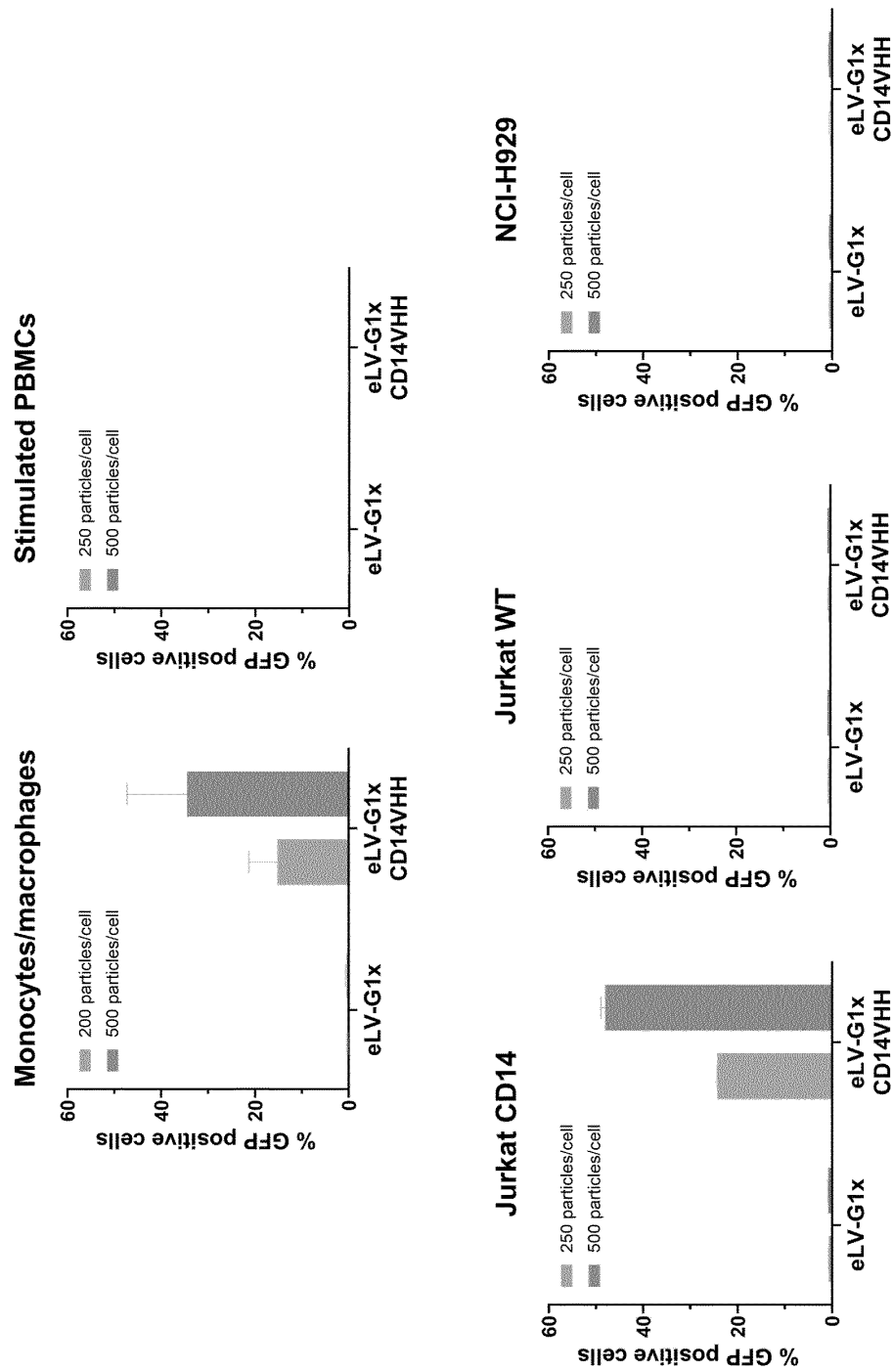


Fig. 37

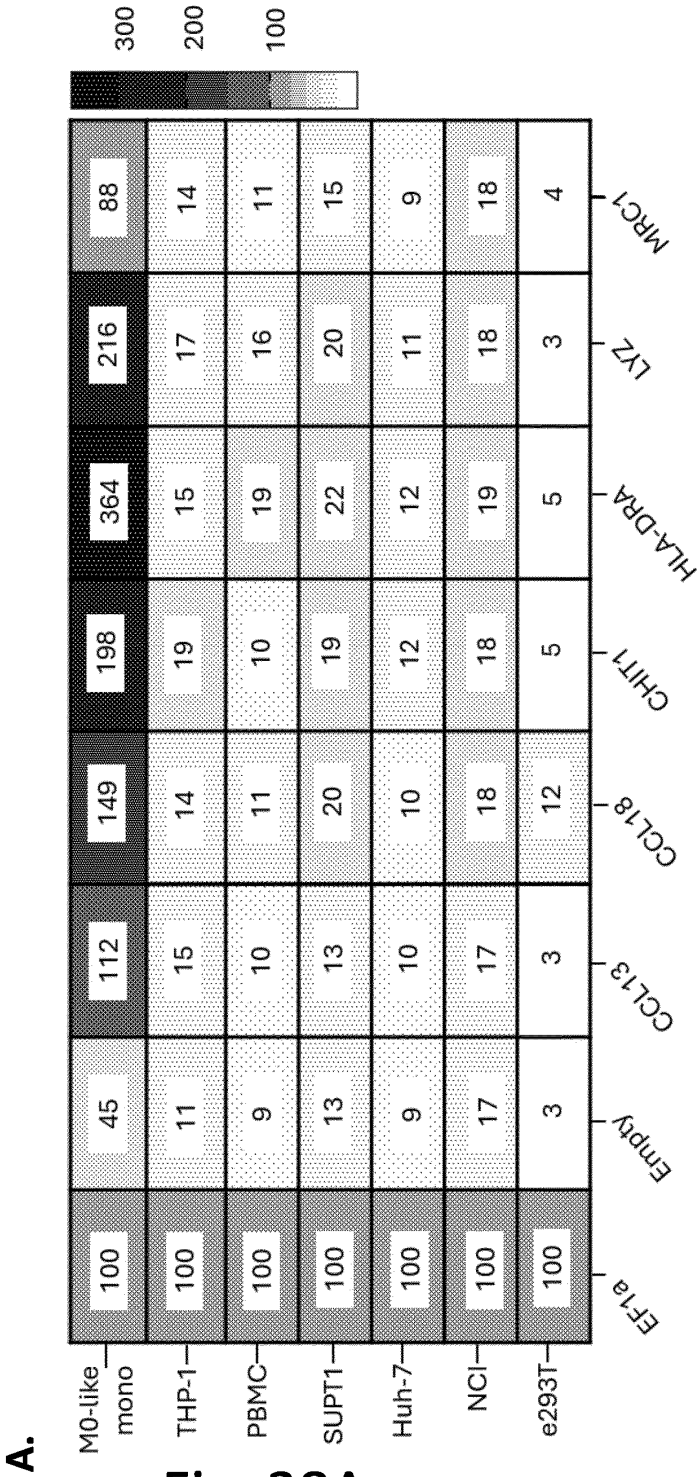


Fig. 38A

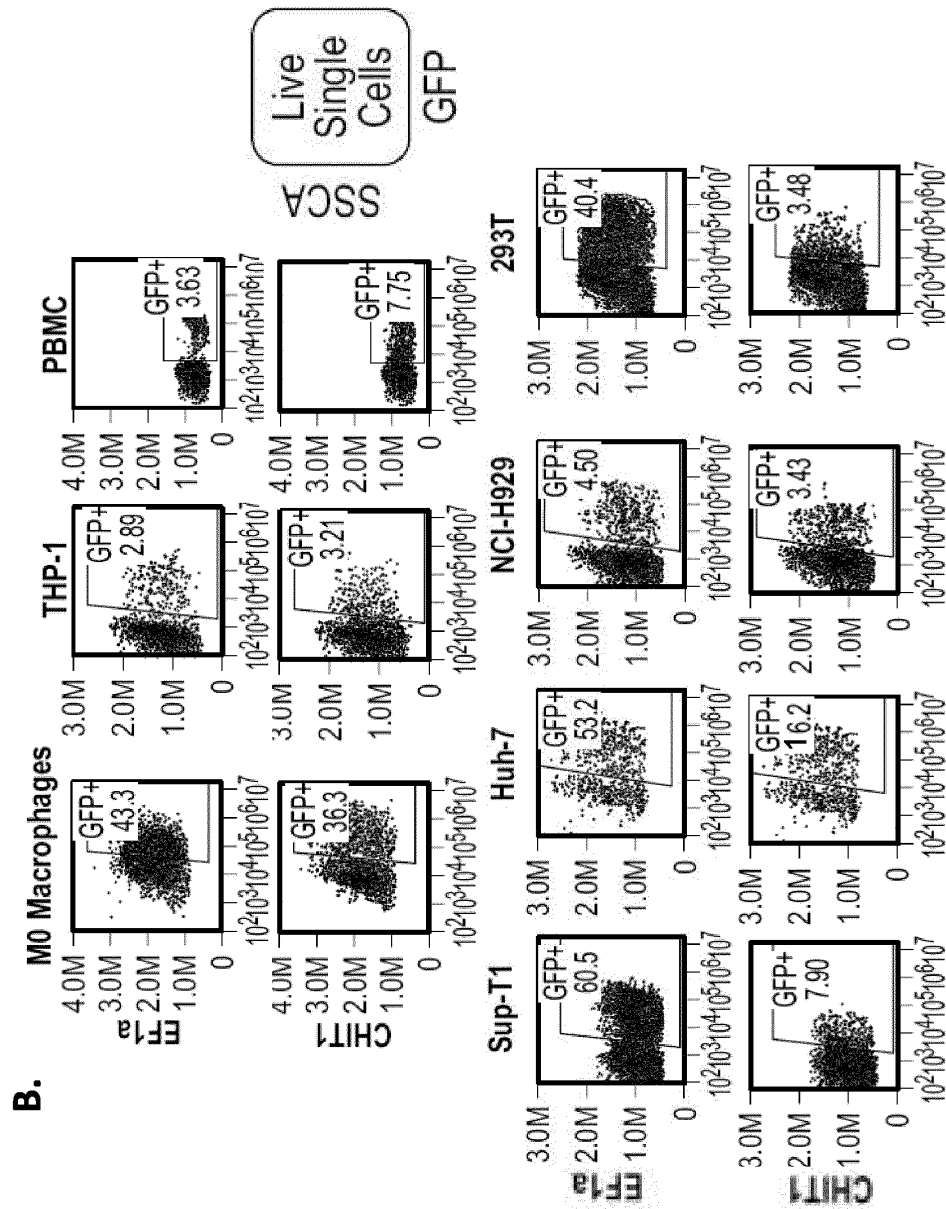


Fig. 38B

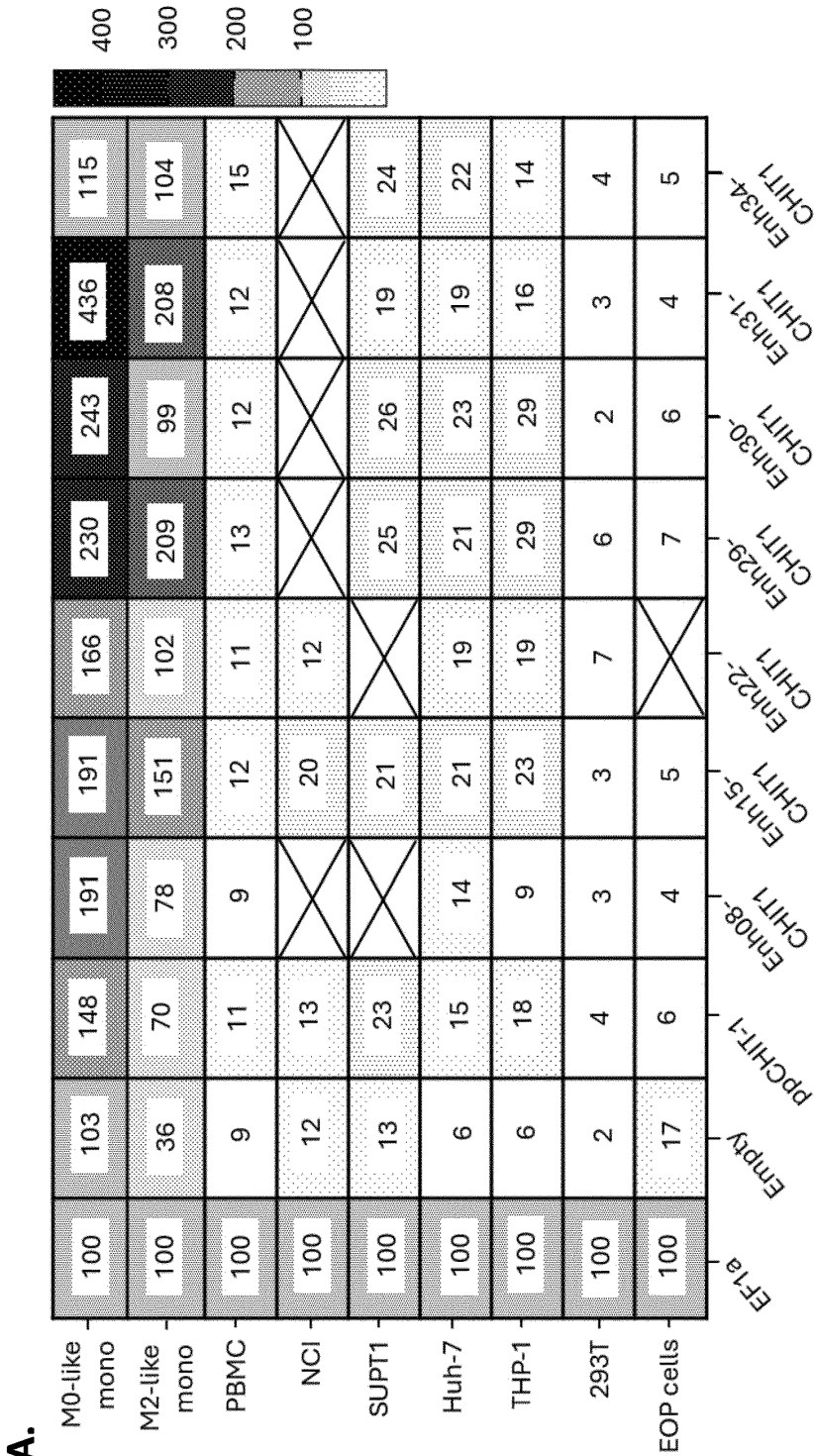


Fig. 39A

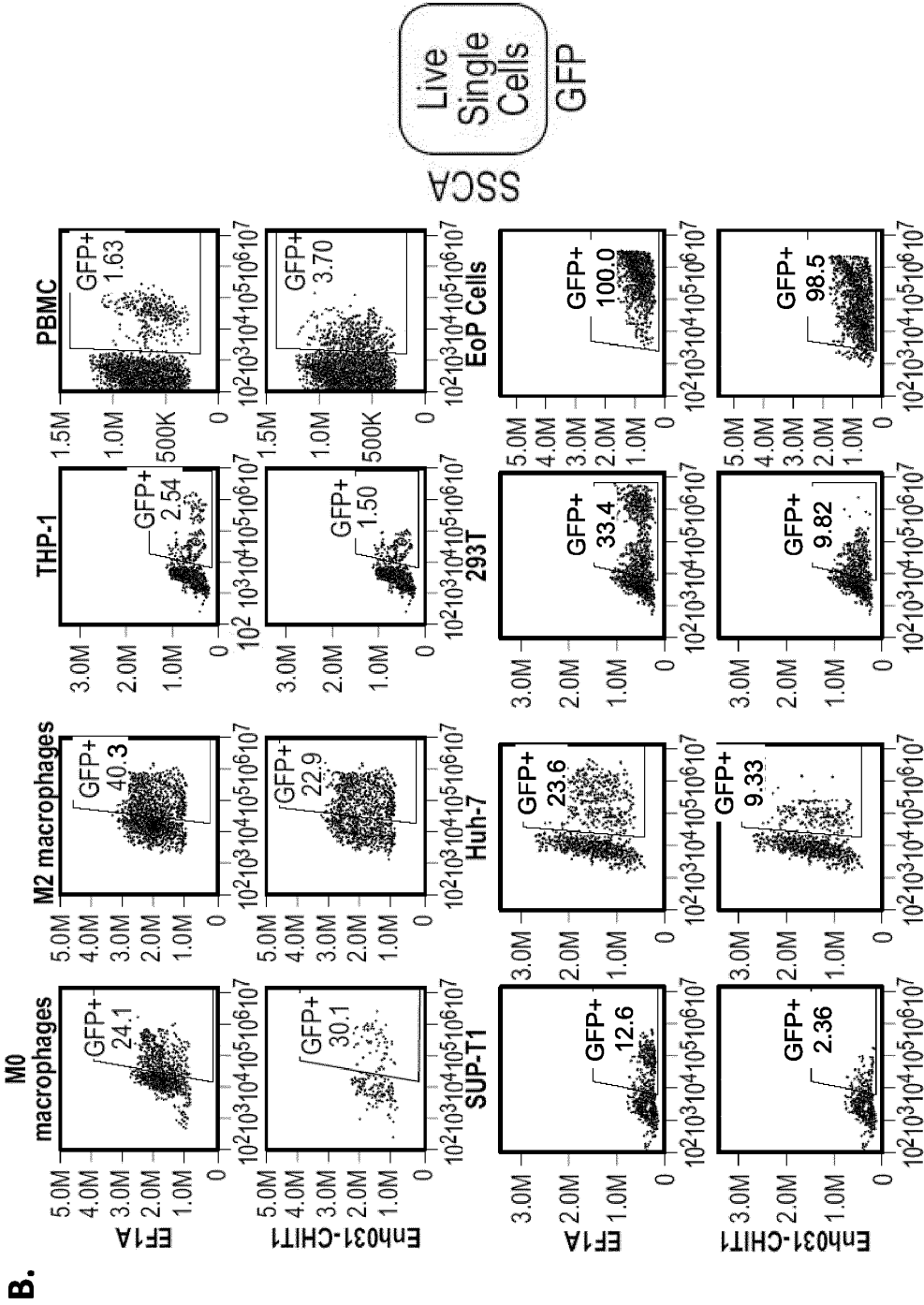


Fig. 39B

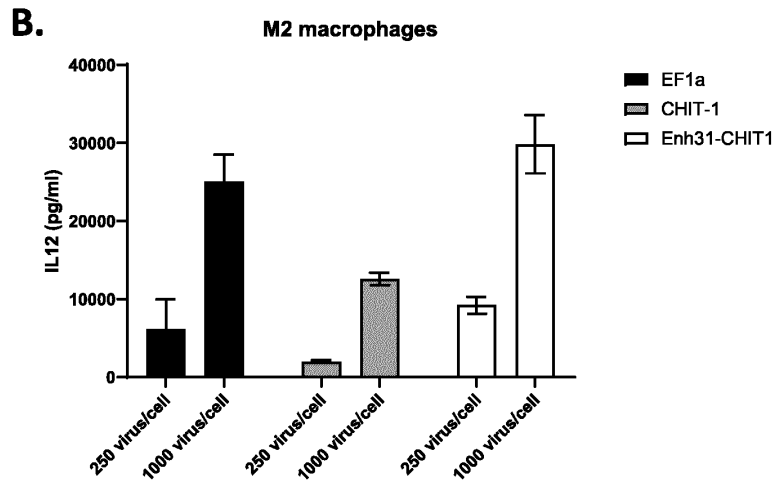
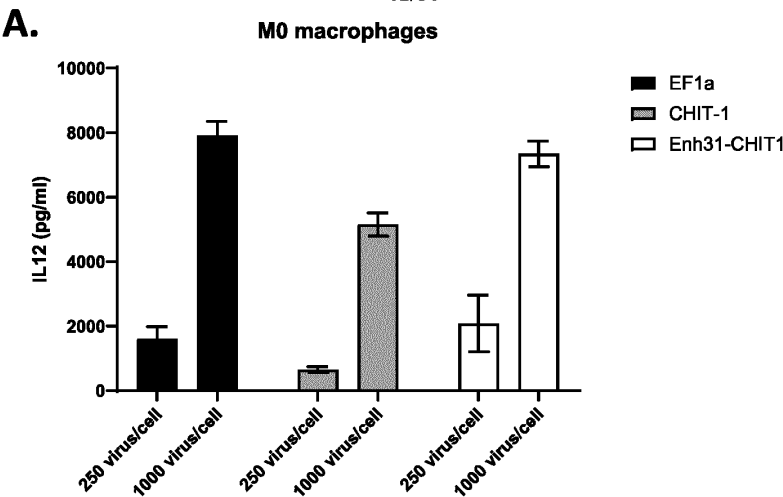


Fig. 40A-40B

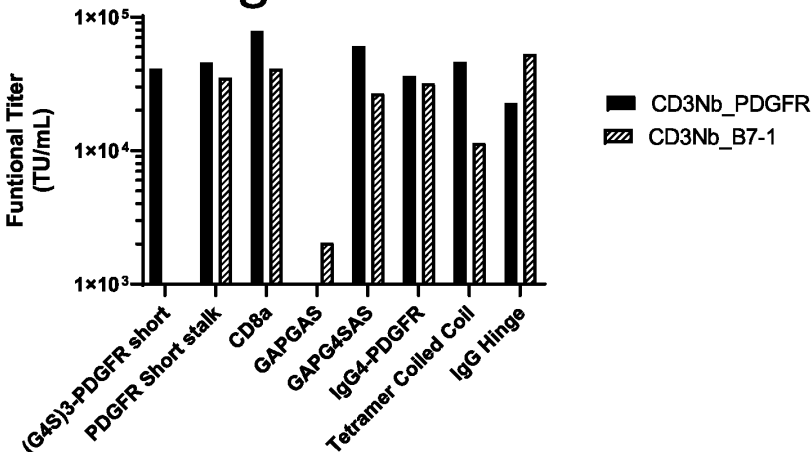


Fig. 41

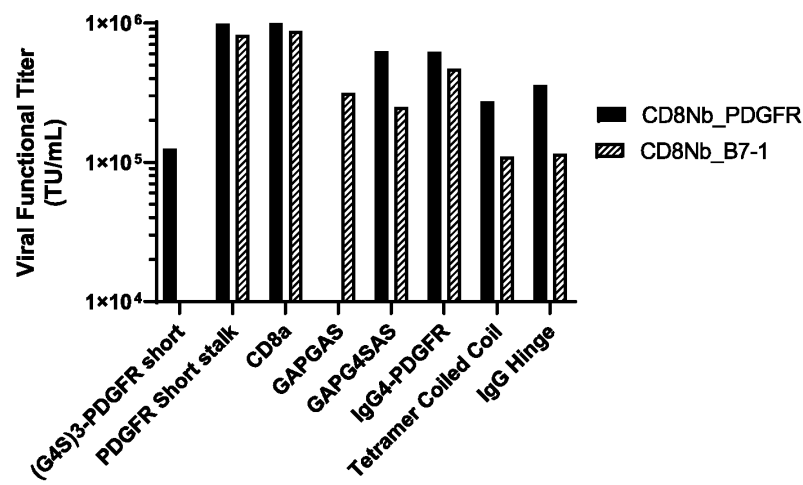


Fig. 42

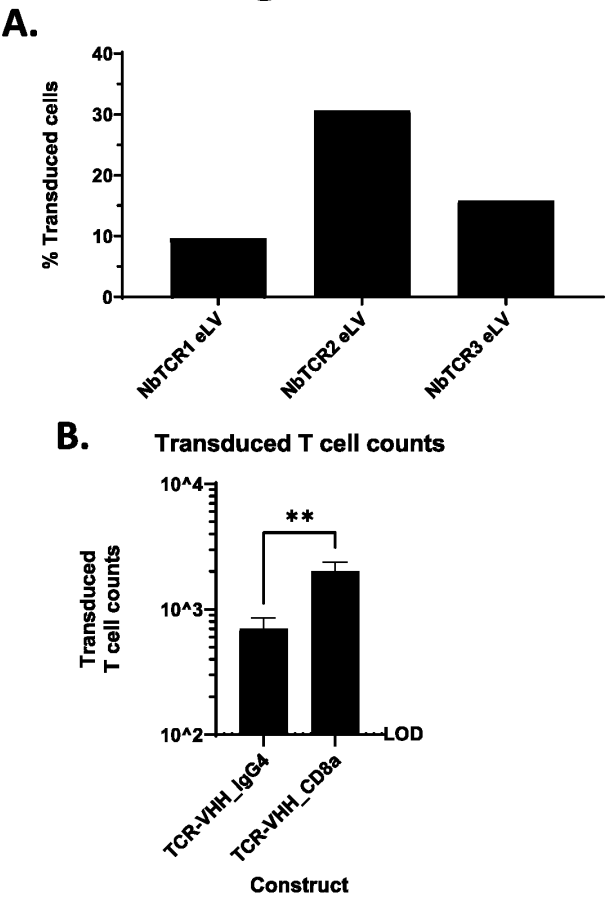


Fig. 43A-43B

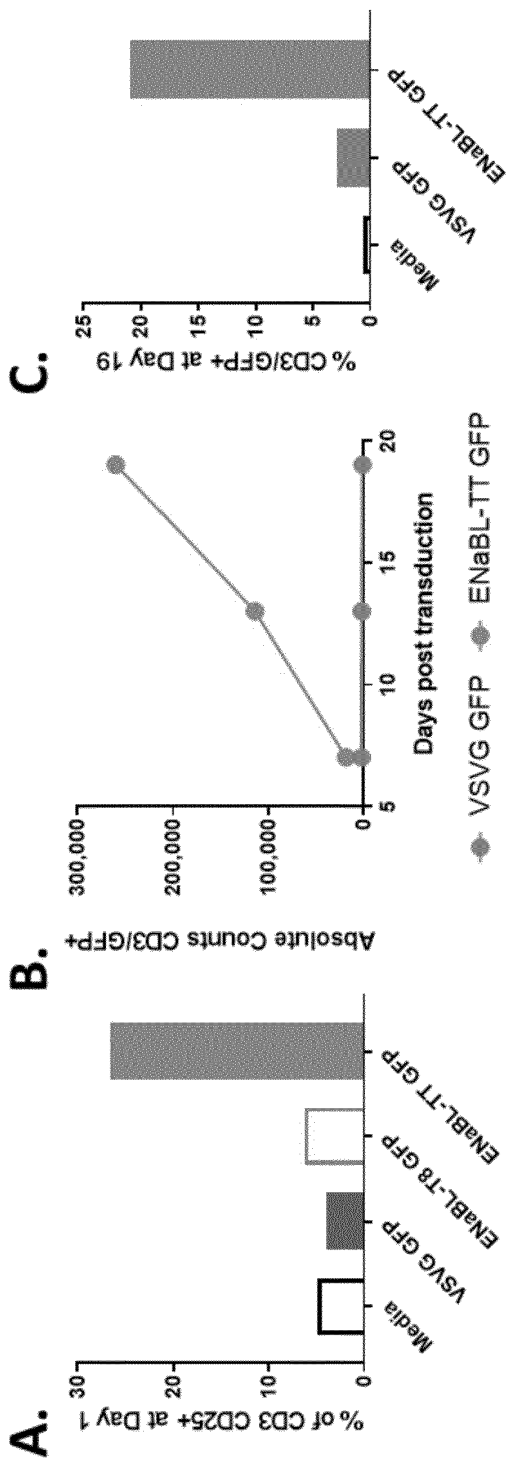


Fig. 44A-44C

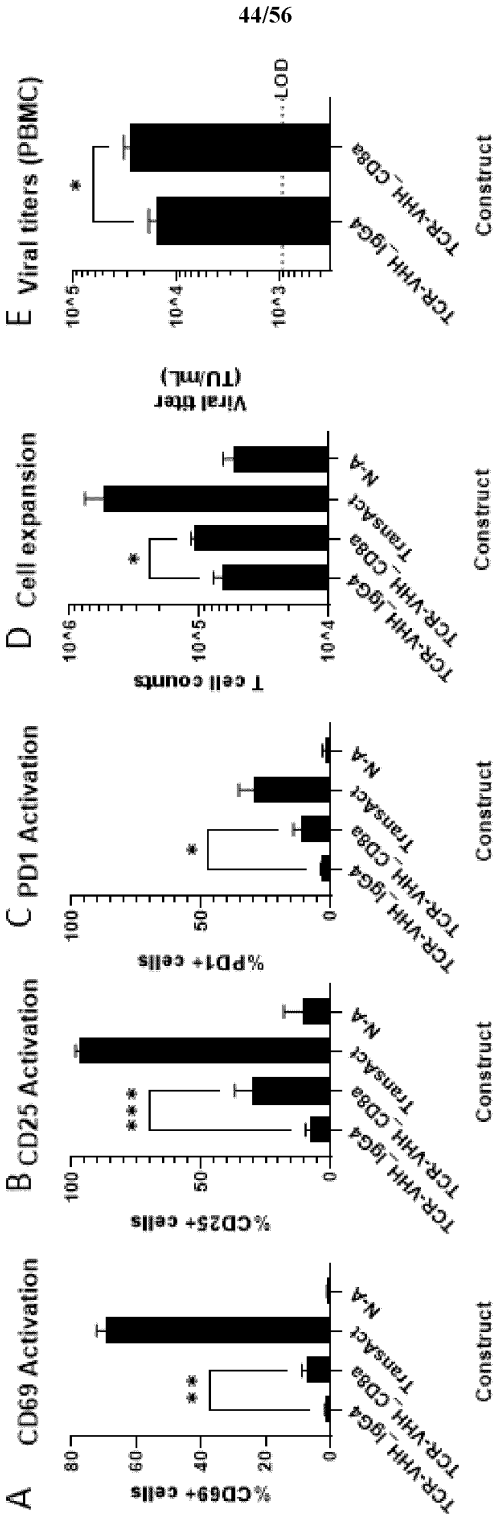


Fig. 45A-45E

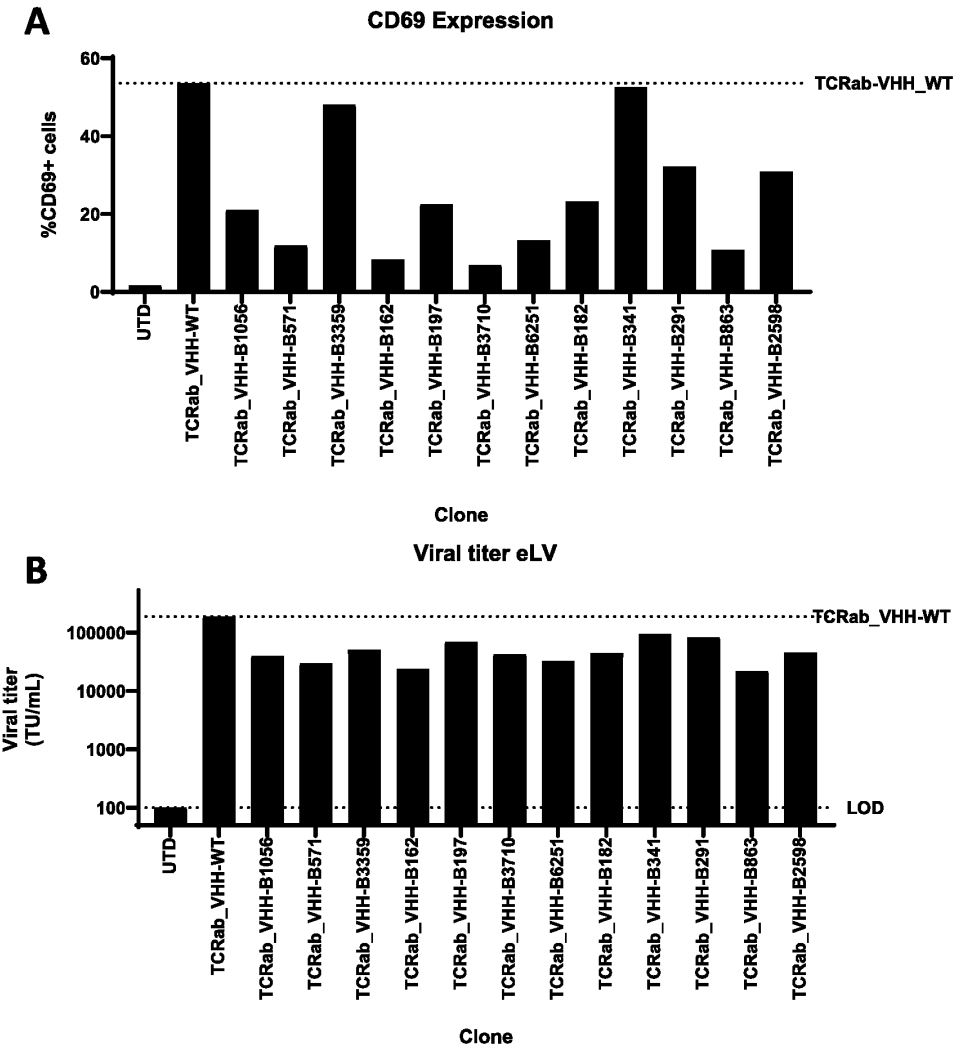


Fig. 46A-46B

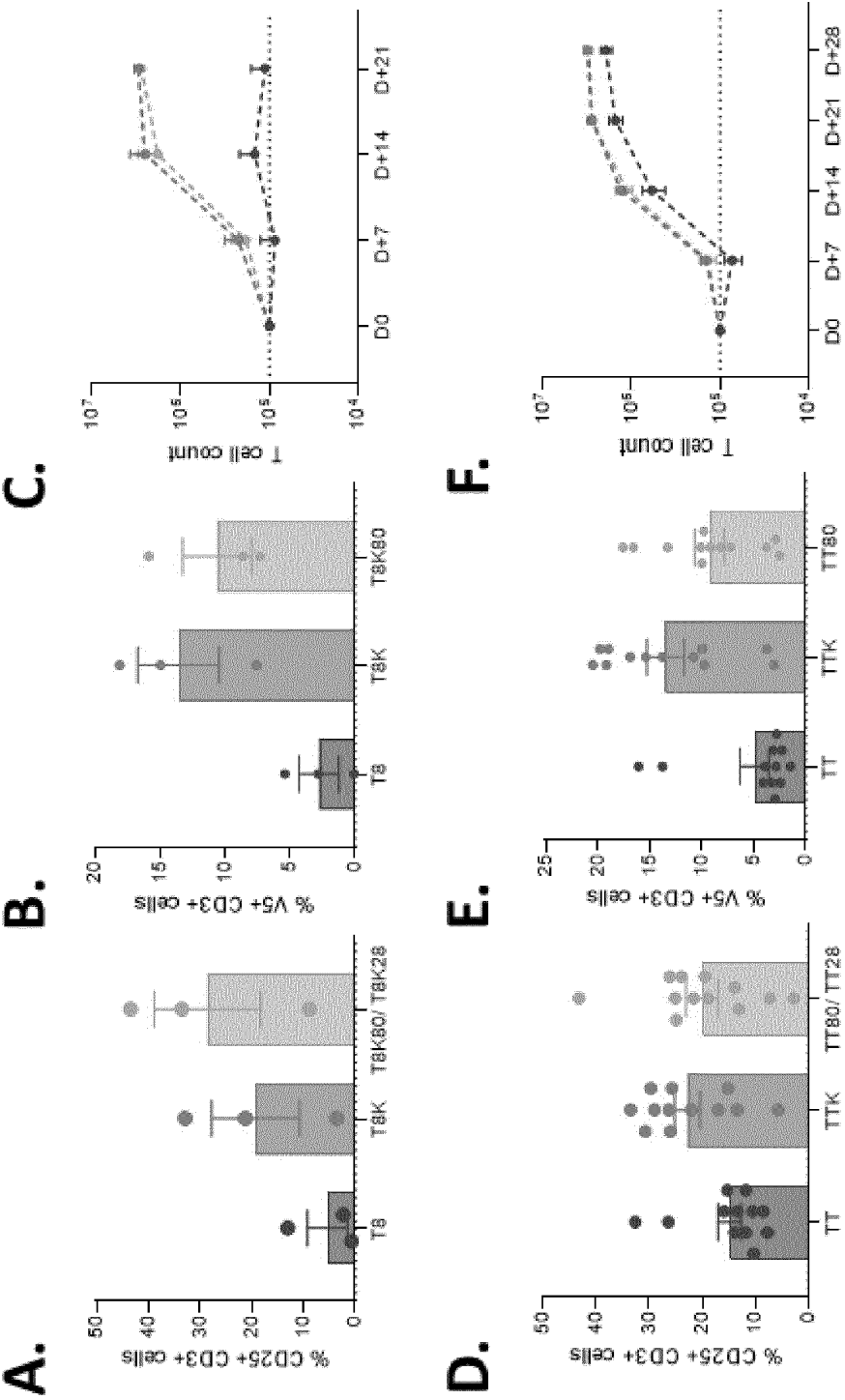


Fig. 47A-47F

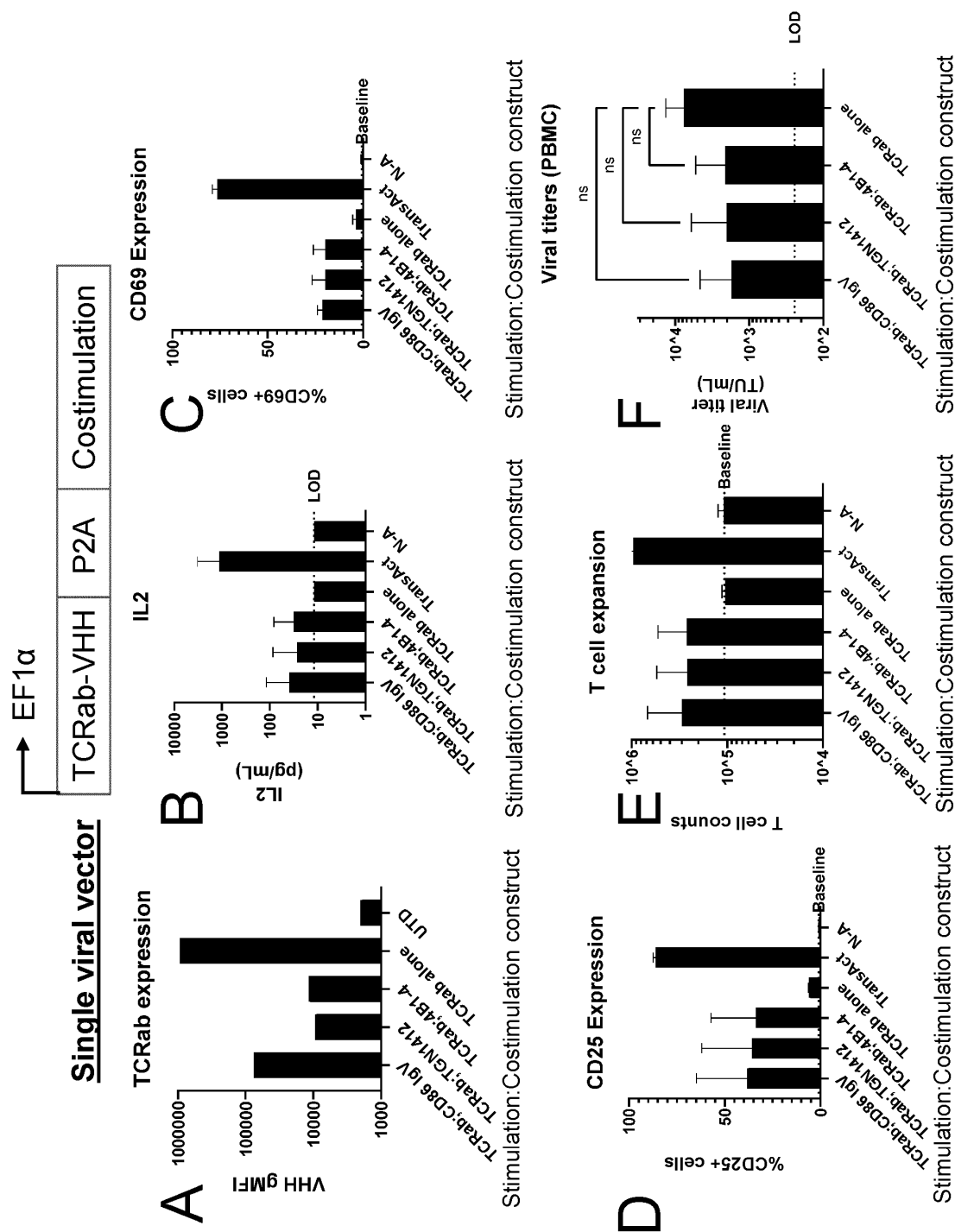


Fig. 48A-48F

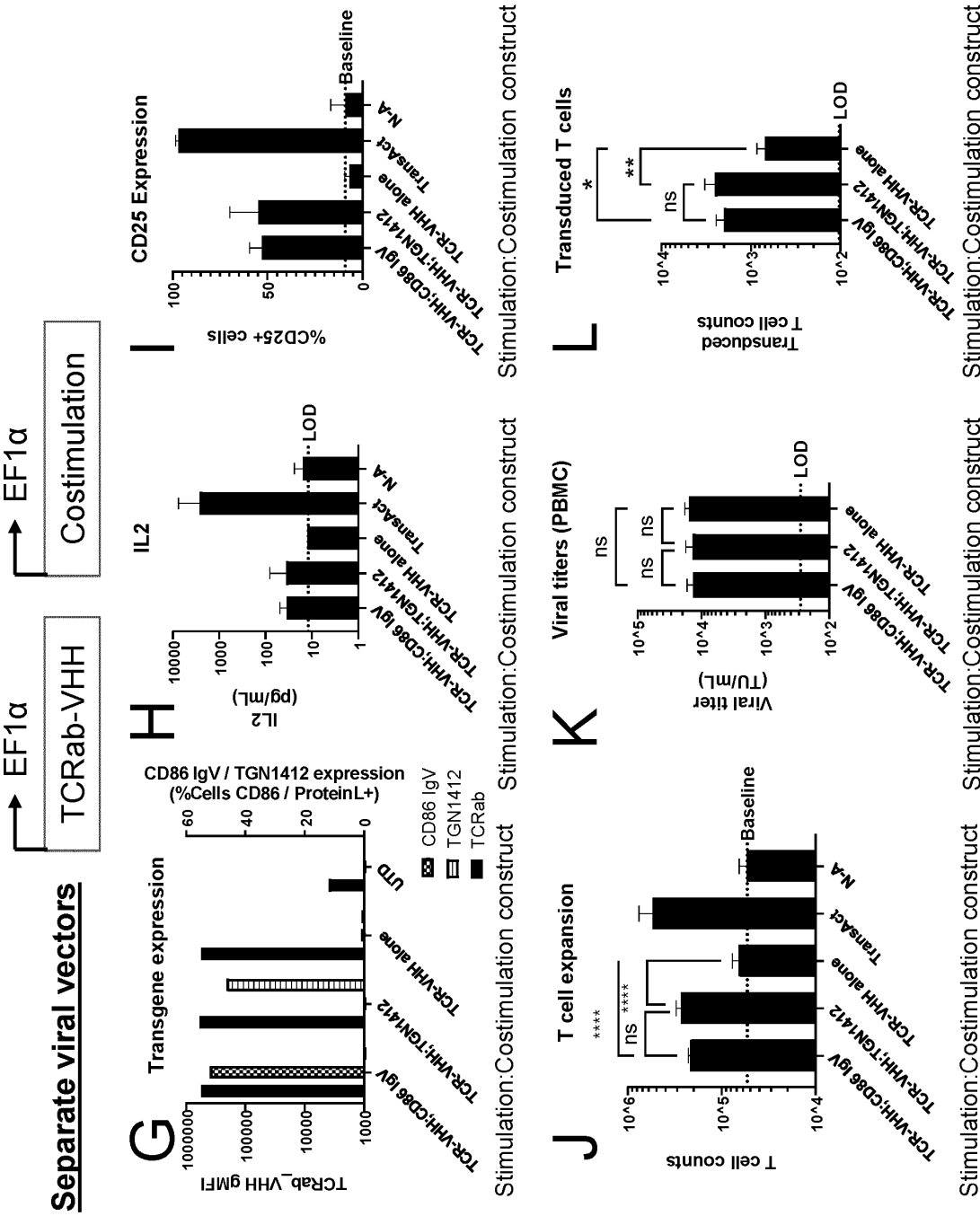


Fig. 48G-48L

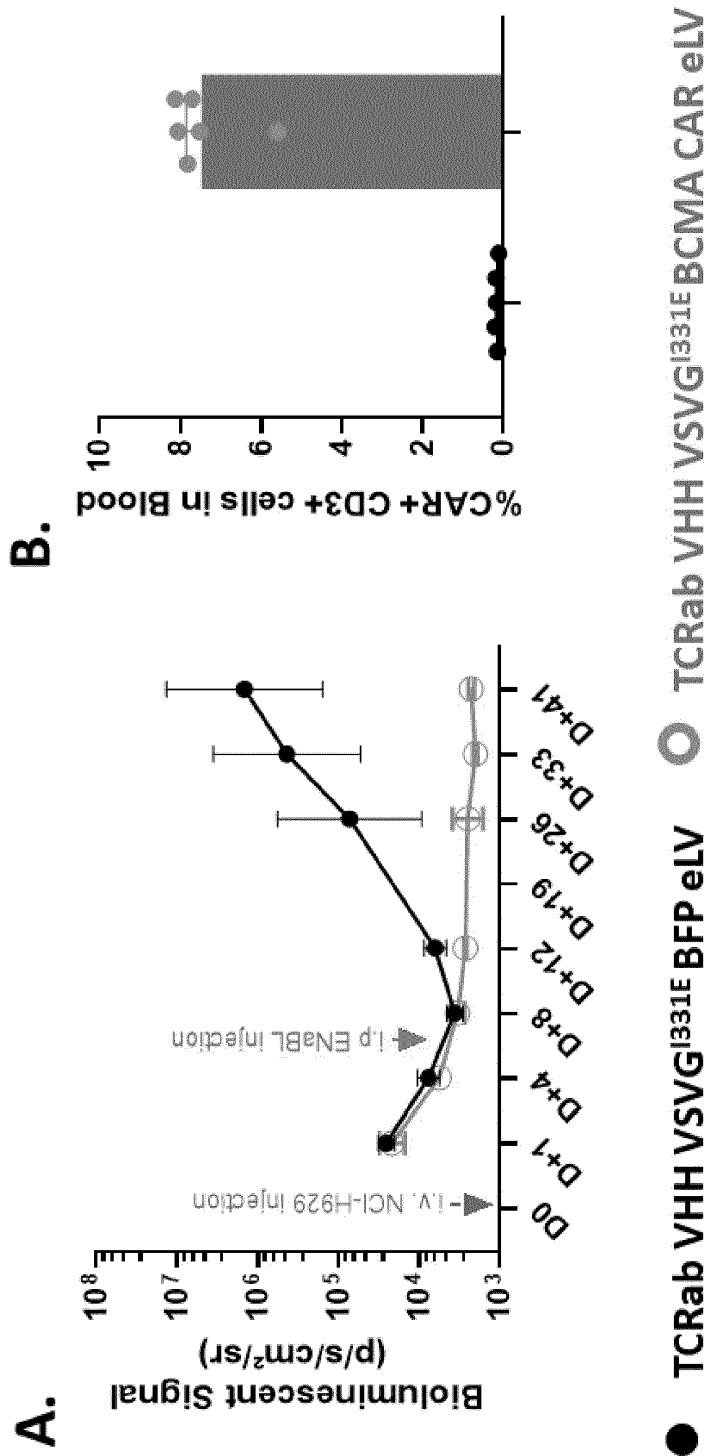


Fig. 51A-51B

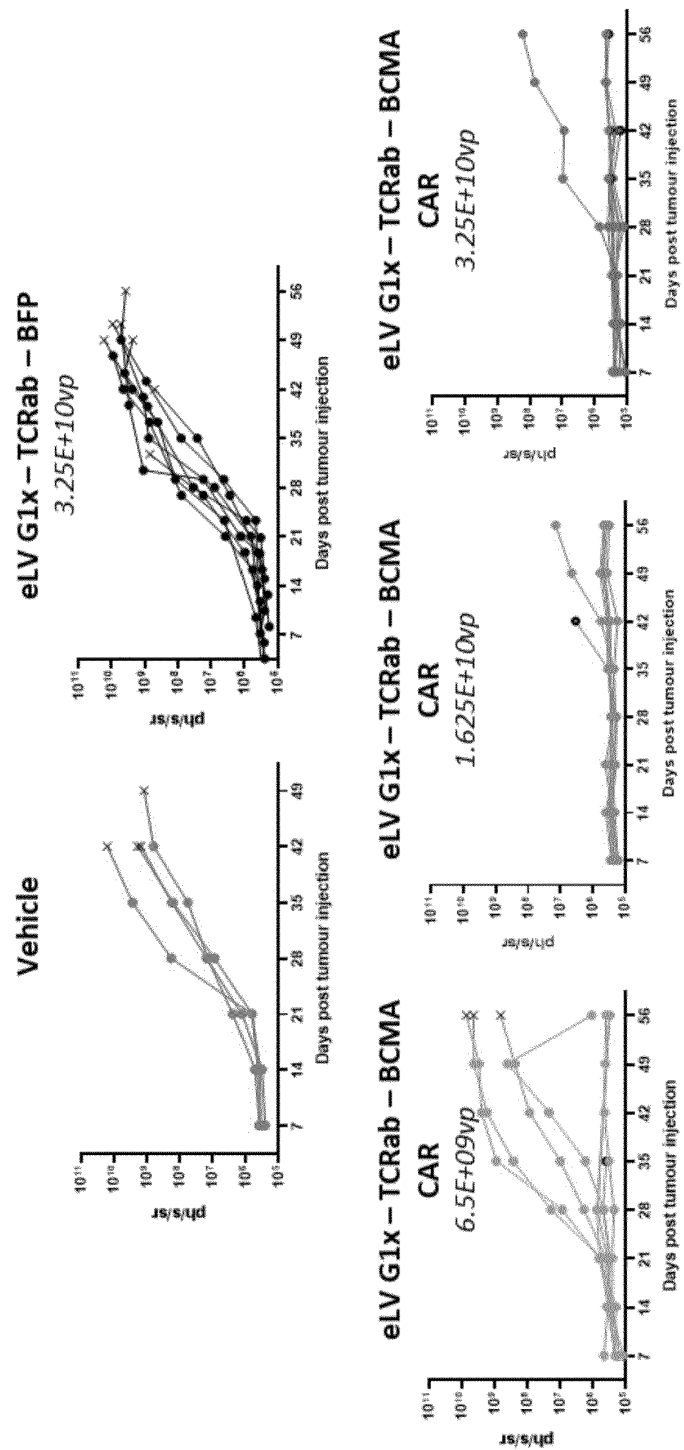


Fig. 52

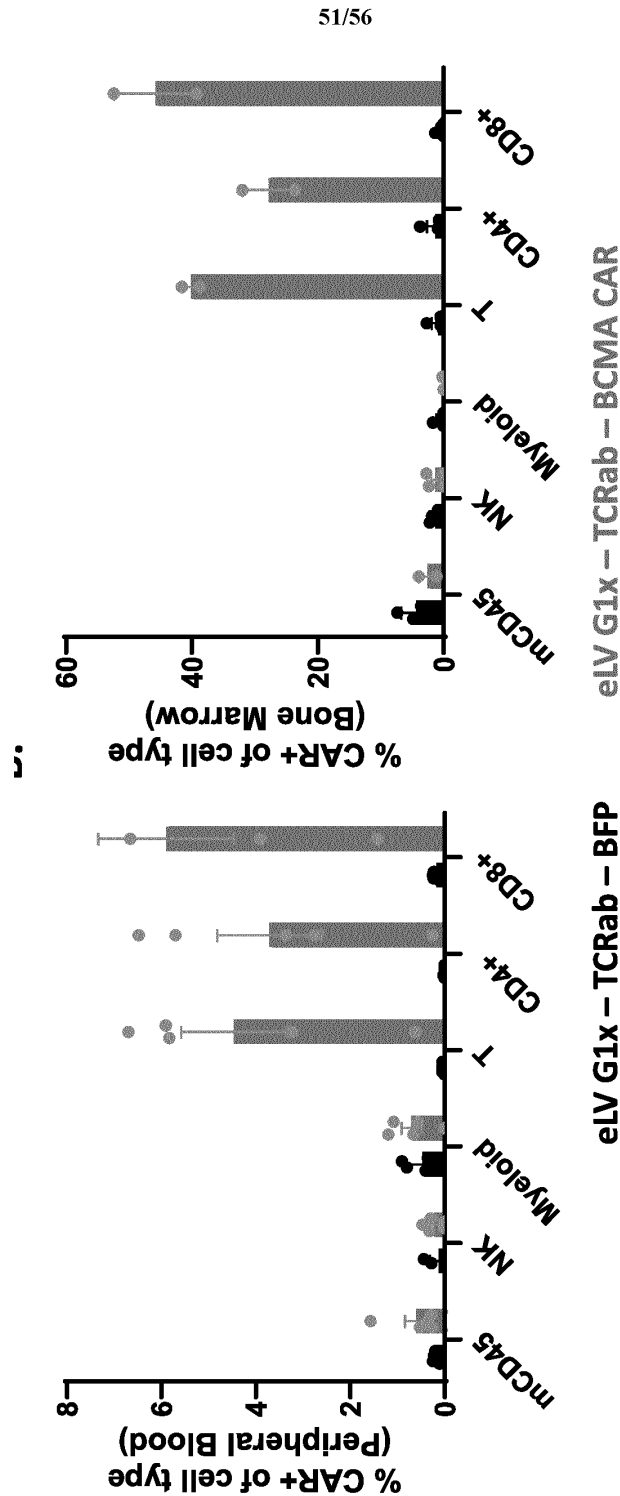


Fig. 53A-53B

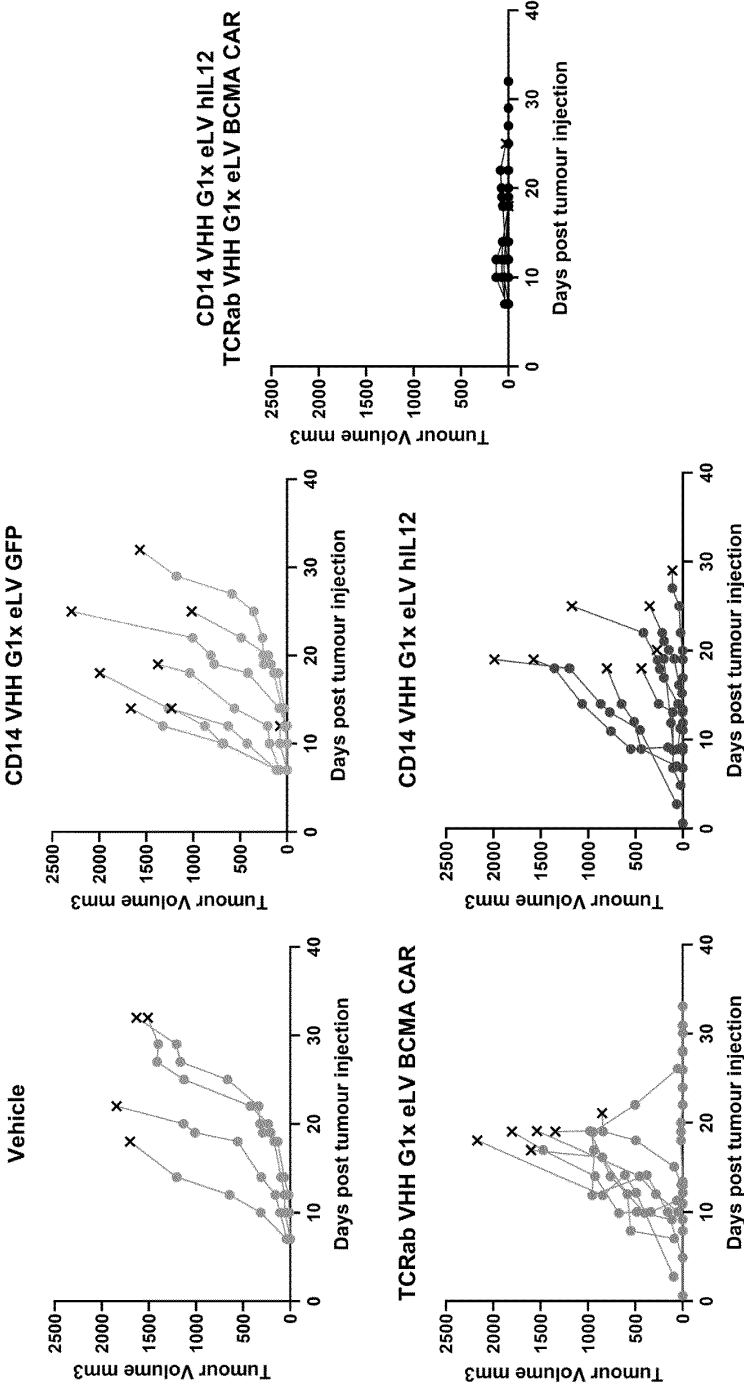


Fig. 54

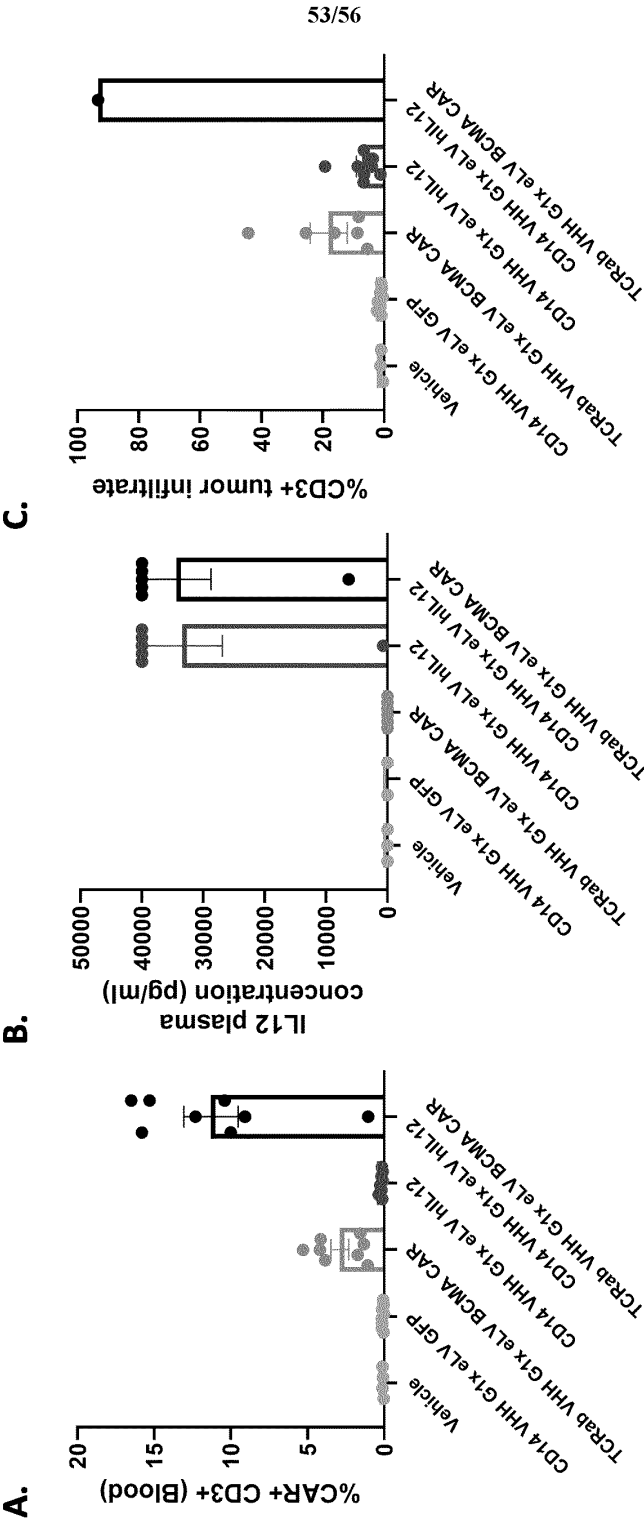


Fig. 55A-55C

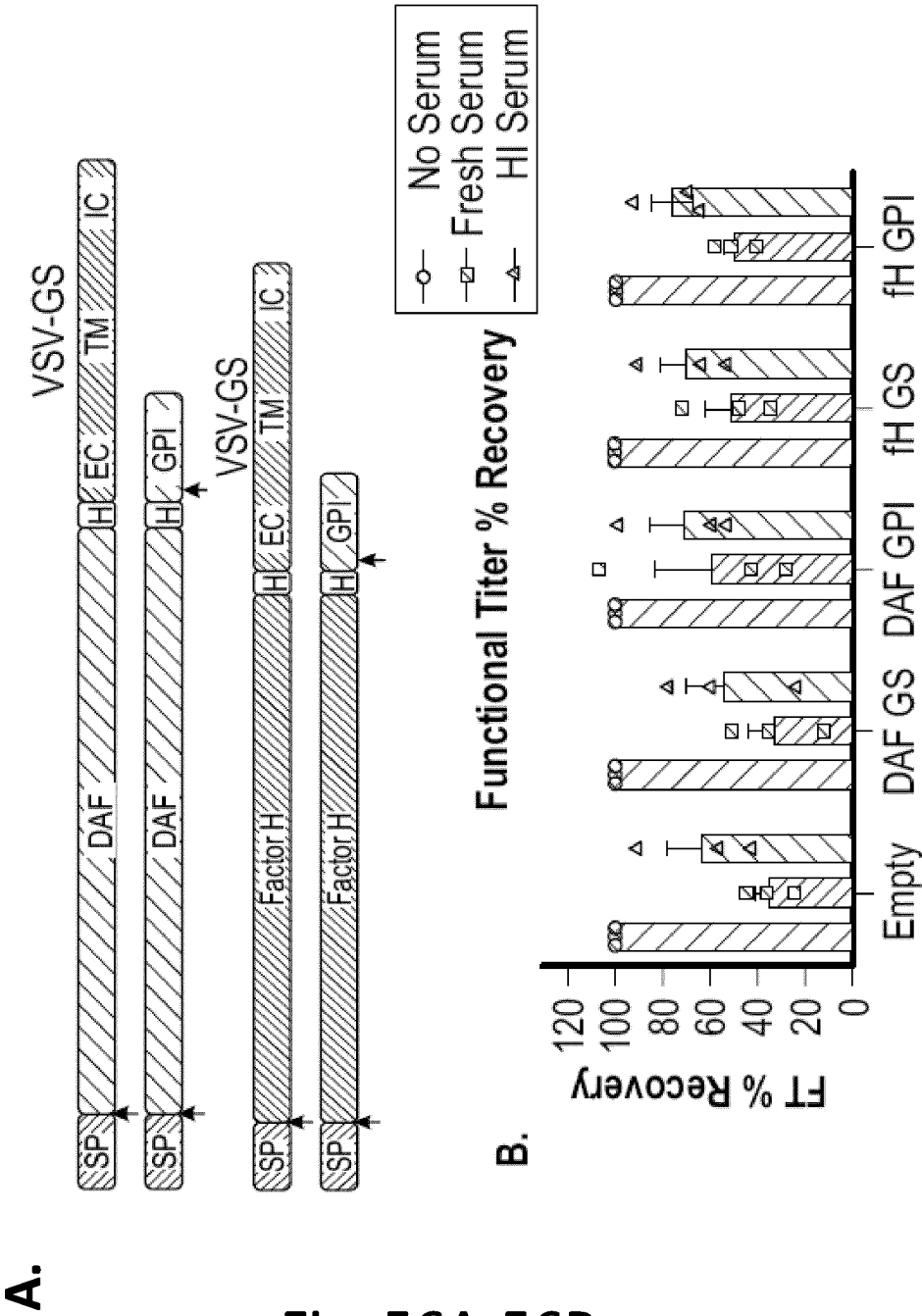


Fig. 56A-56B

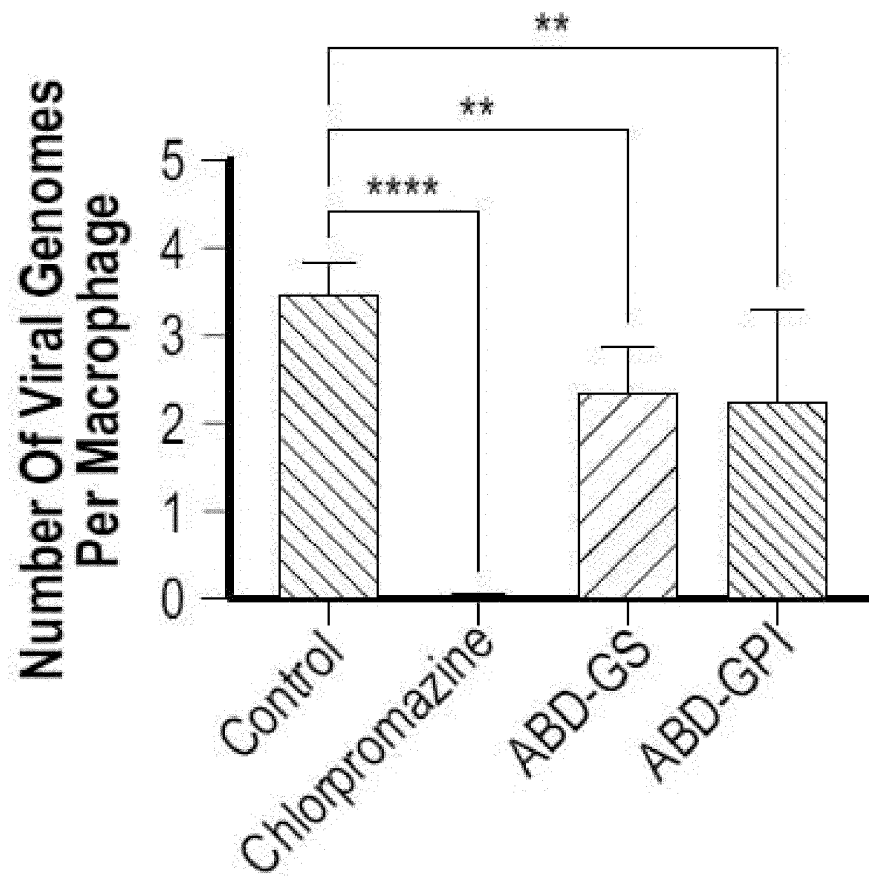


Fig. 57

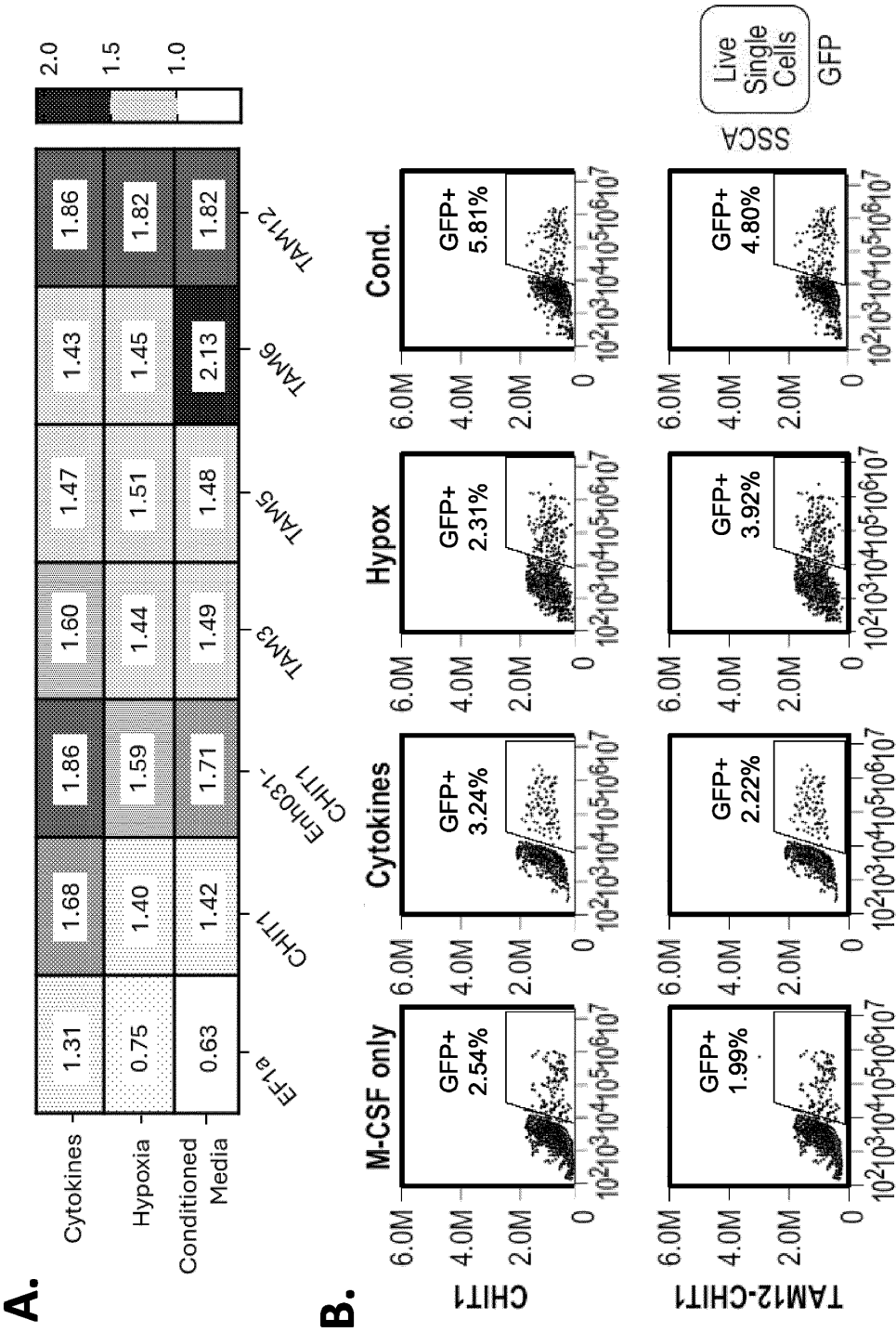


Fig. 58A-58B