

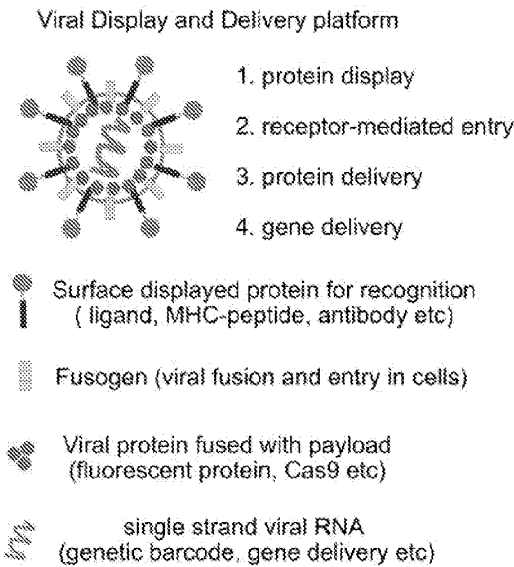


FIG. 1A

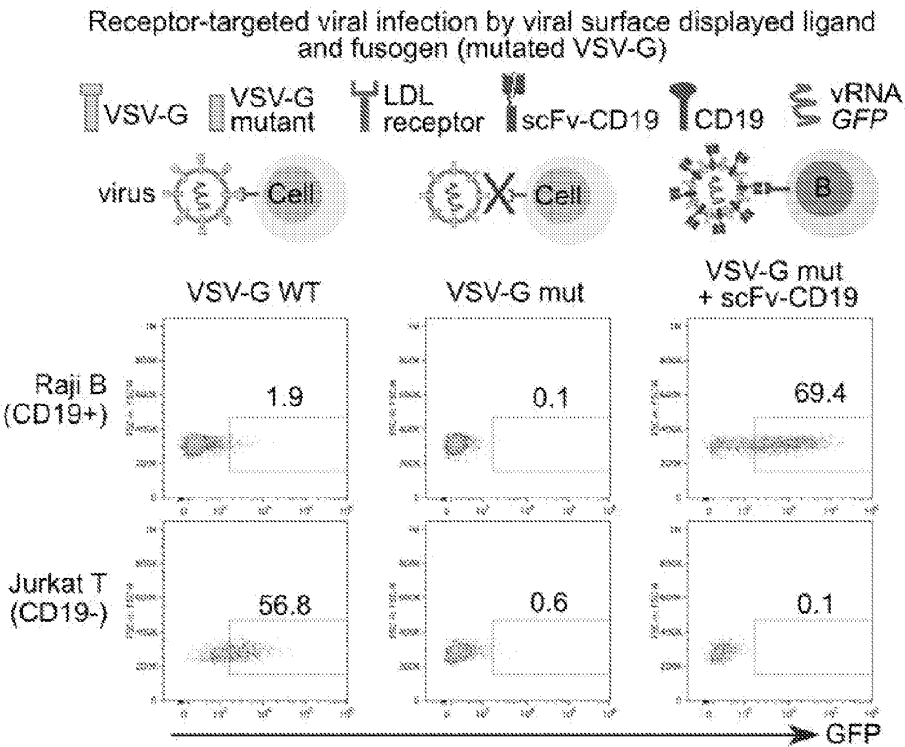


FIG. 1B

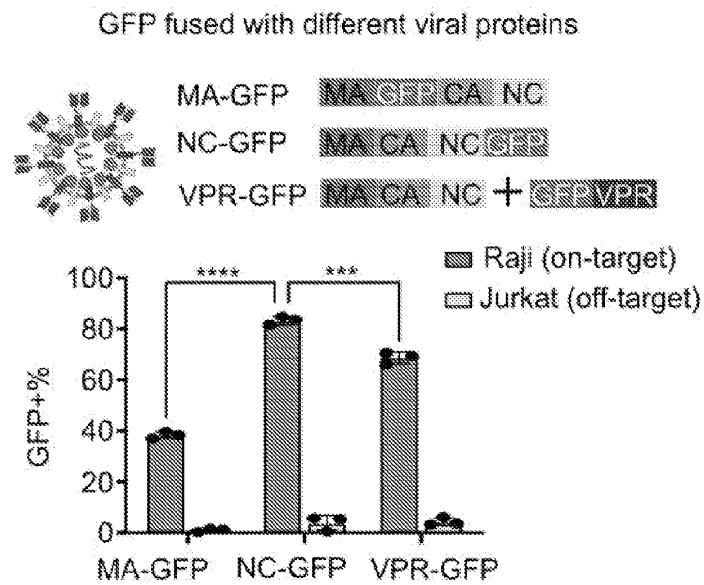


FIG. 1C

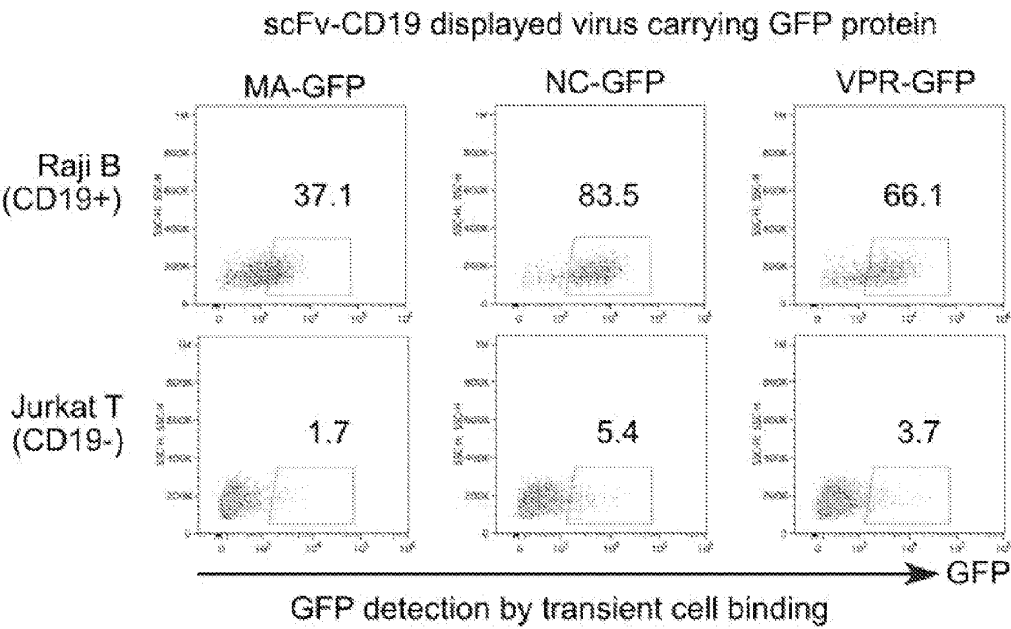


FIG. 1D



FIG. 1E

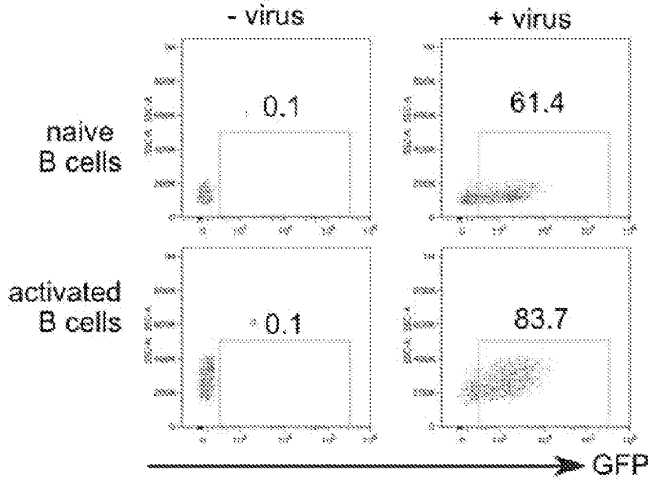


FIG. 1F

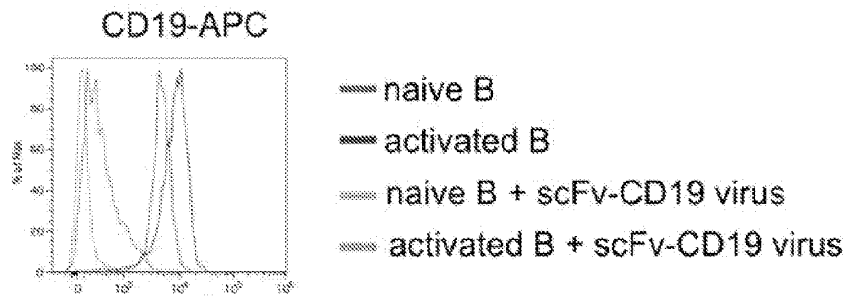
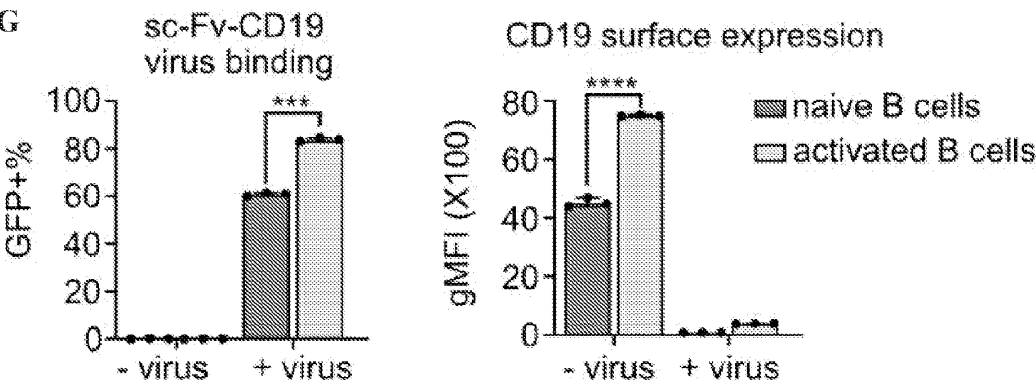


FIG. 1G



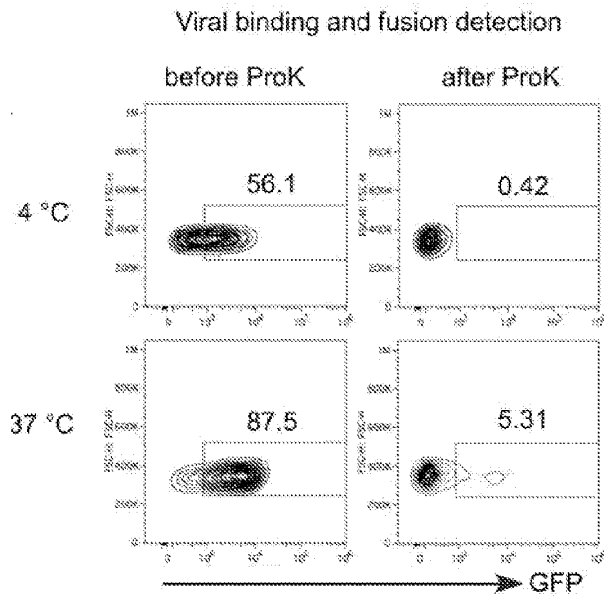


FIG. 1H

Raji B cells incubated with
scFv-CD19 virus
under diverse temperature

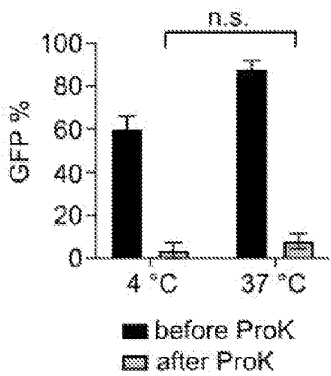


FIG. 1I

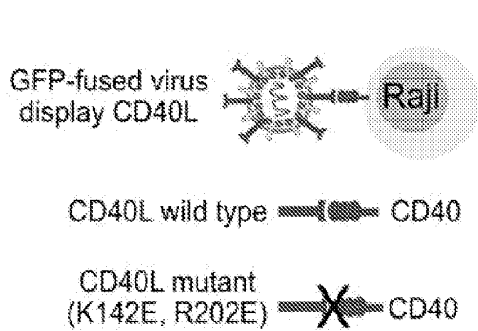


FIG. 1J

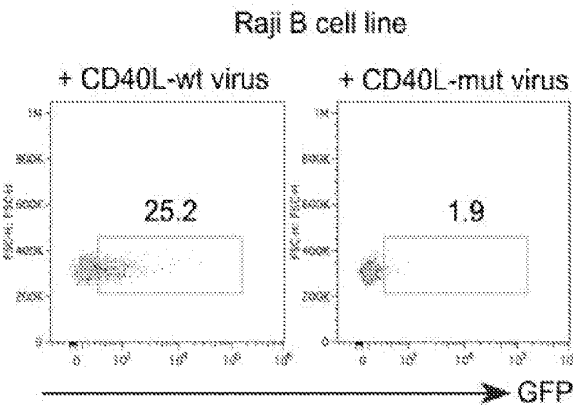


FIG. 1K

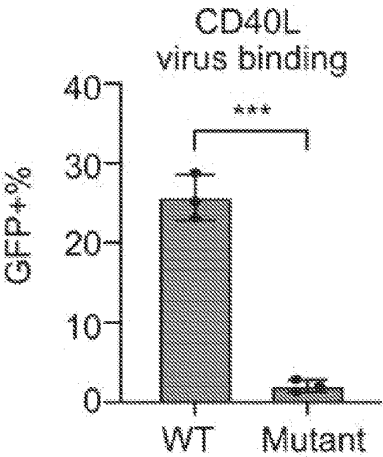


FIG. 1L

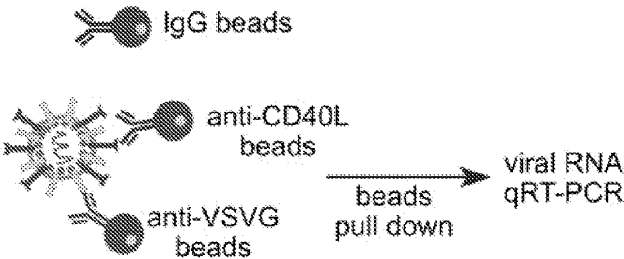


FIG. 1M

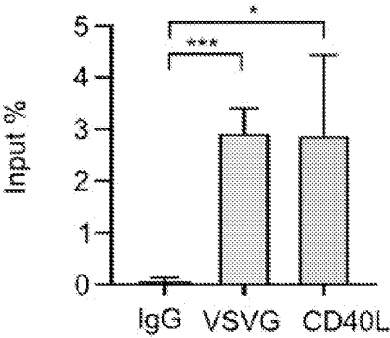


FIG. 1N

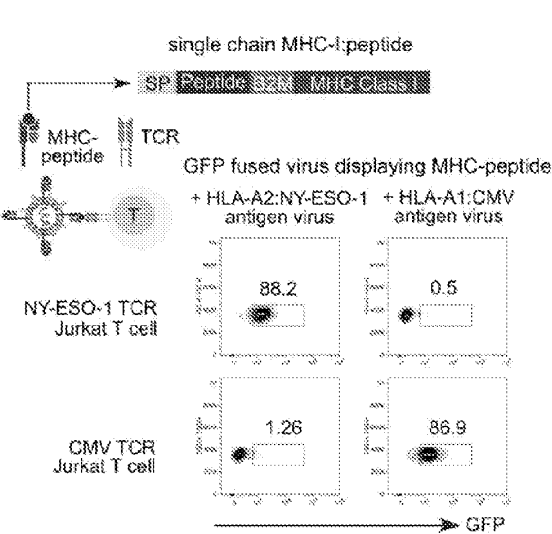


FIG. 2A

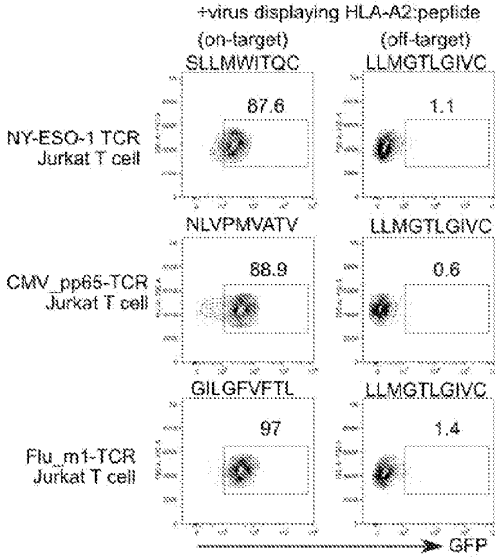


FIG. 2B

FIG. 2C

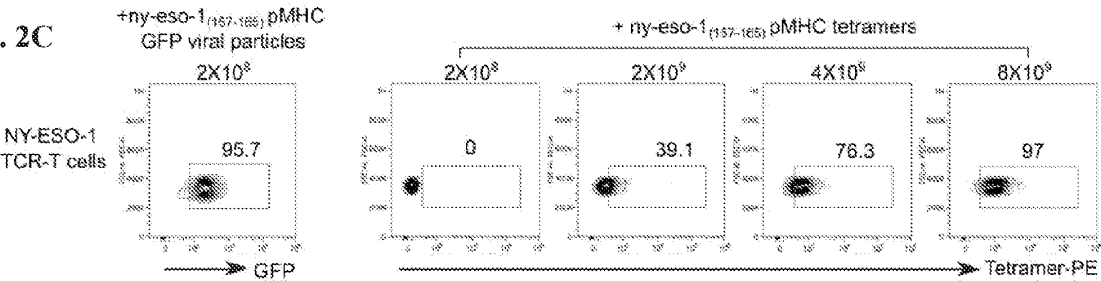
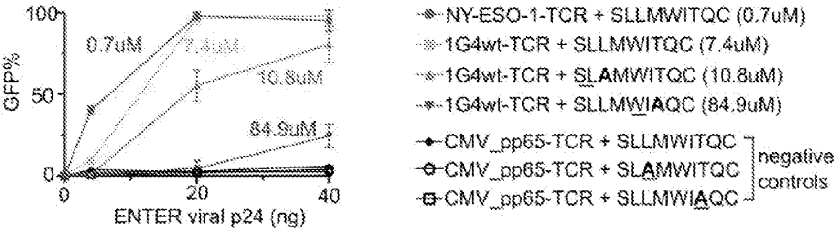


FIG. 2D

TCR-T cells incubated with ENTER viruses displaying antigen variants with different TCR affinity



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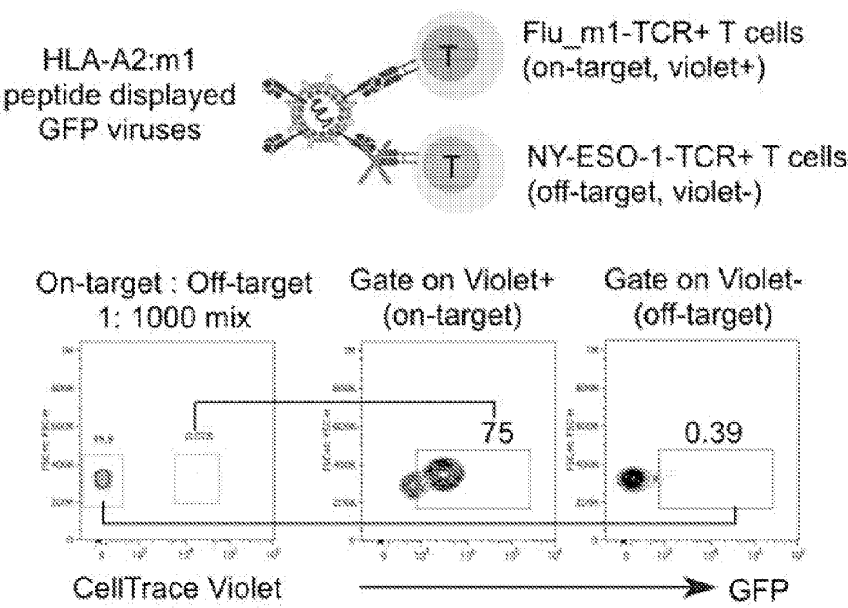


FIG. 2E

$$\text{Signal-to-Noise} = \frac{\text{GFP+ on-target of total on-target \%}}{\text{GFP+ off-target of total off-target \%}}$$

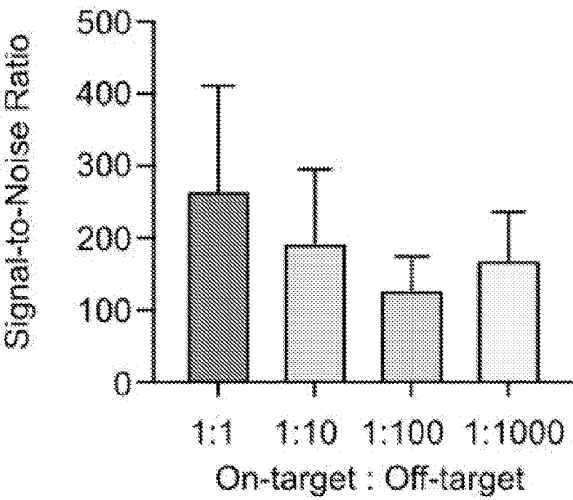


FIG. 2F

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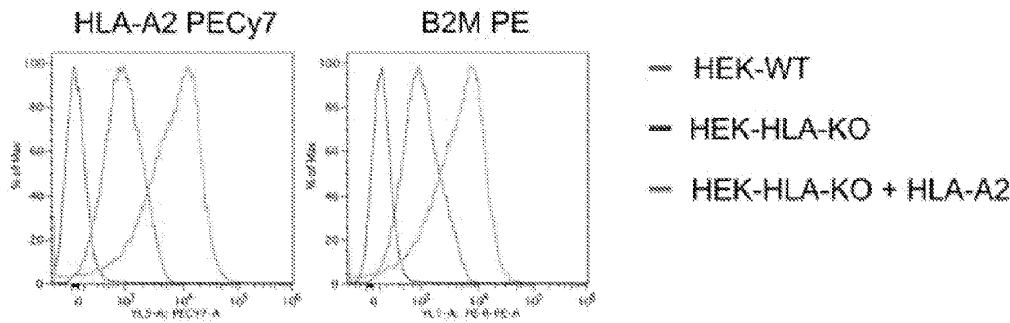


FIG. 2G

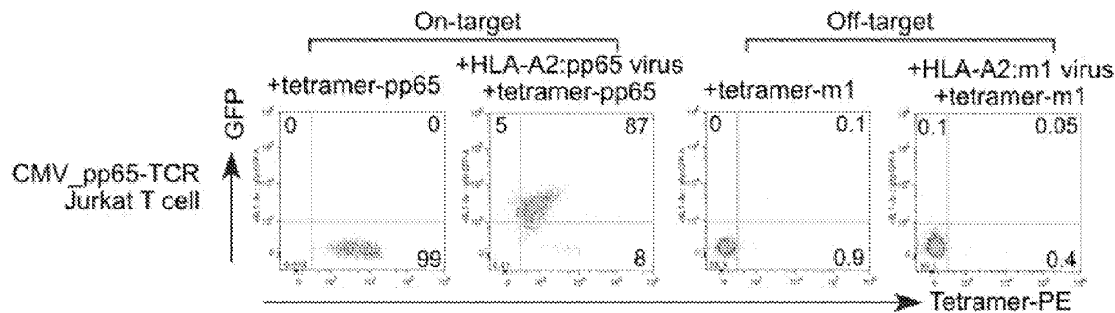


FIG. 2H

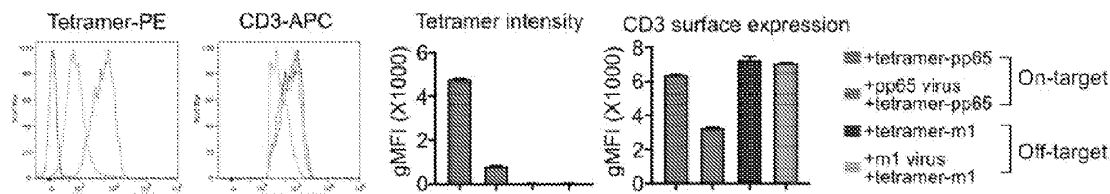


FIG. 2I

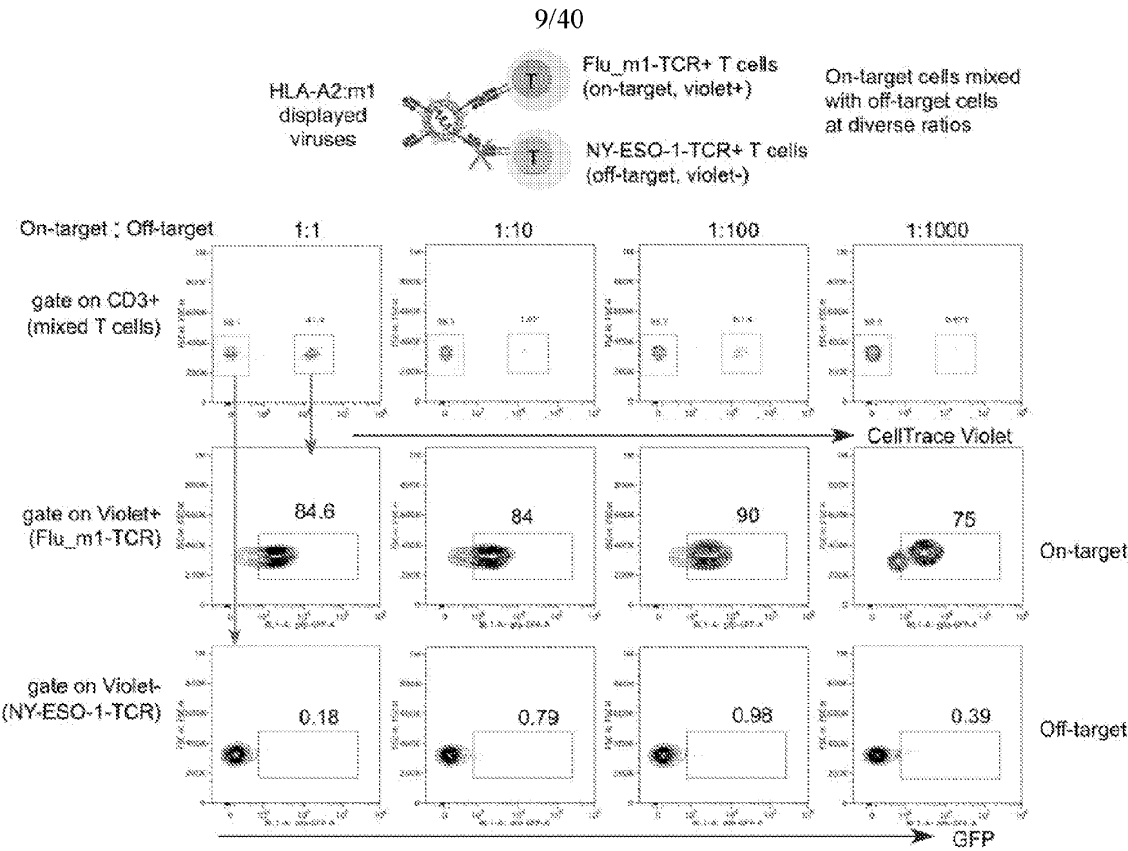


FIG. 2J

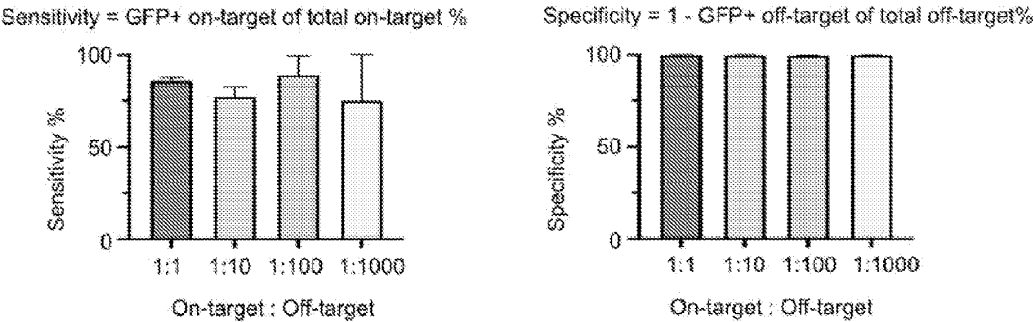


FIG. 2K

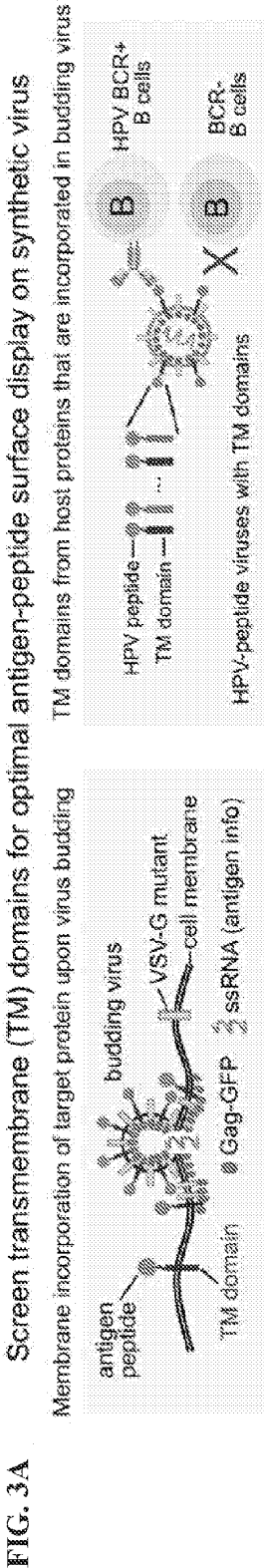


FIG. 3C

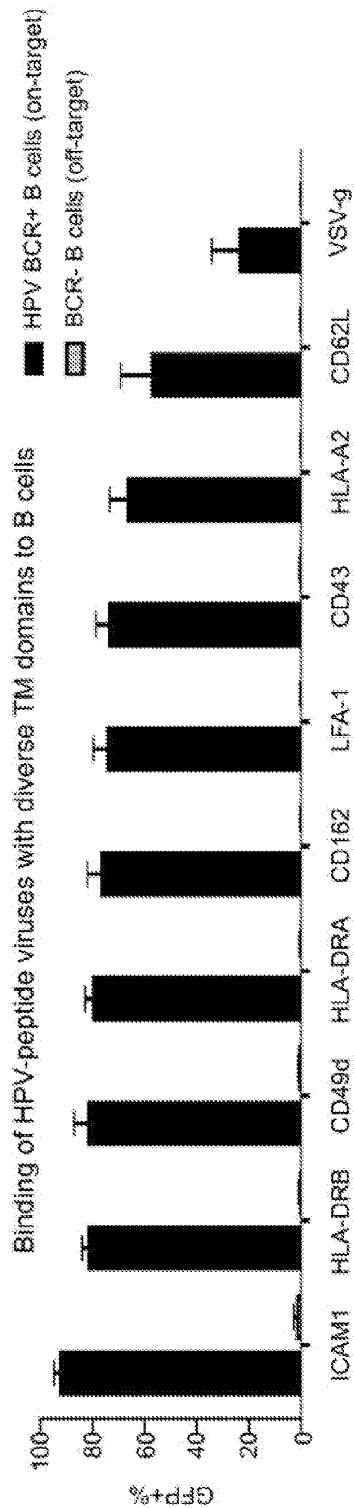
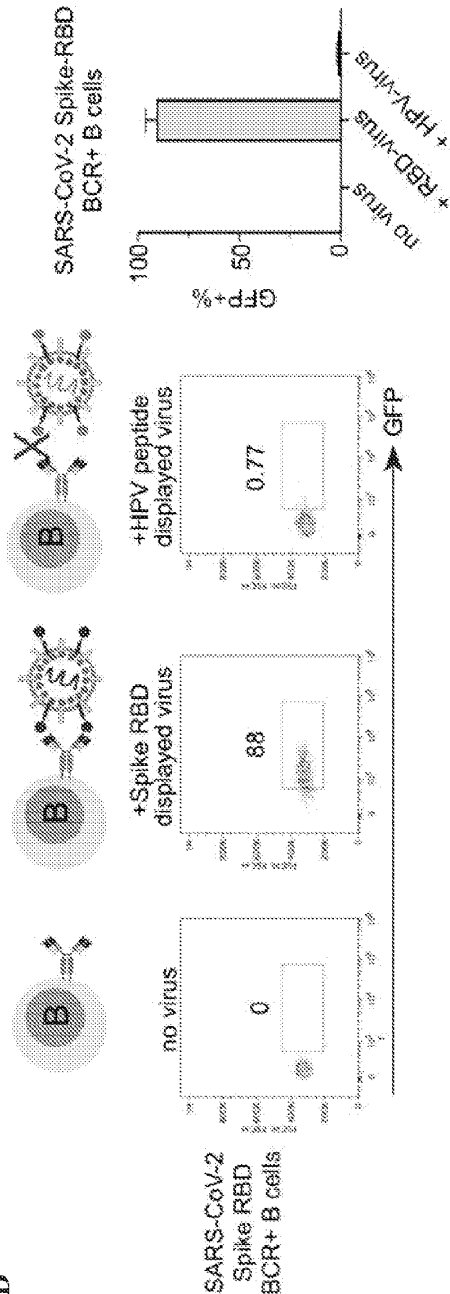


FIG. 3D



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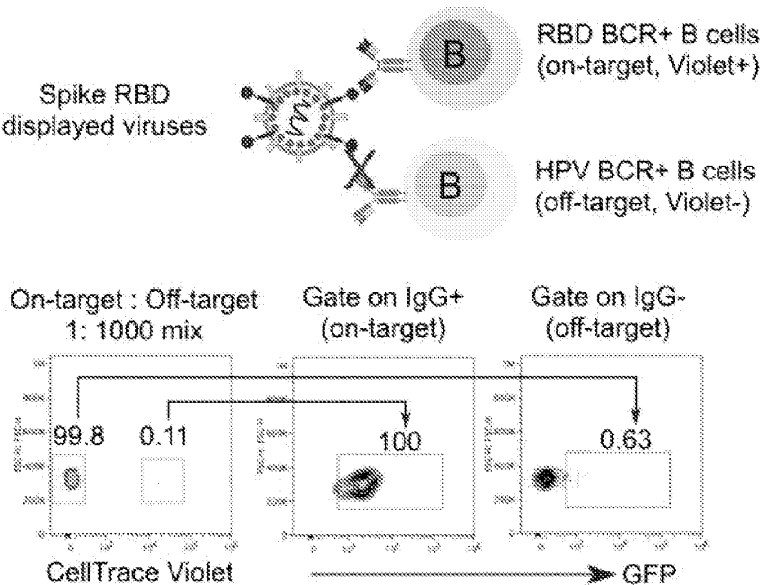


FIG. 3E

$$\text{Signal-to-Noise} = \frac{\text{GFP+ on-target of total on-target \%}}{\text{GFP+ off-target of total off-target \%}}$$

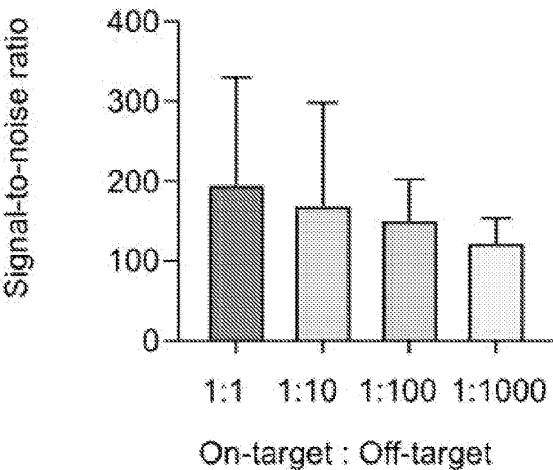


FIG. 3F

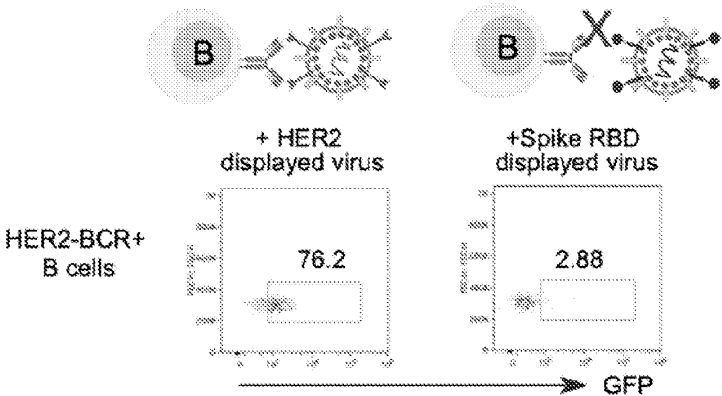


FIG. 3G

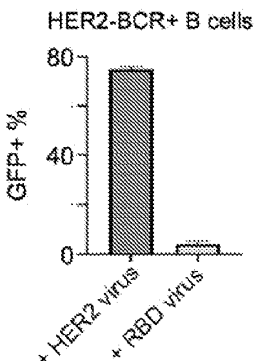


FIG. 3H

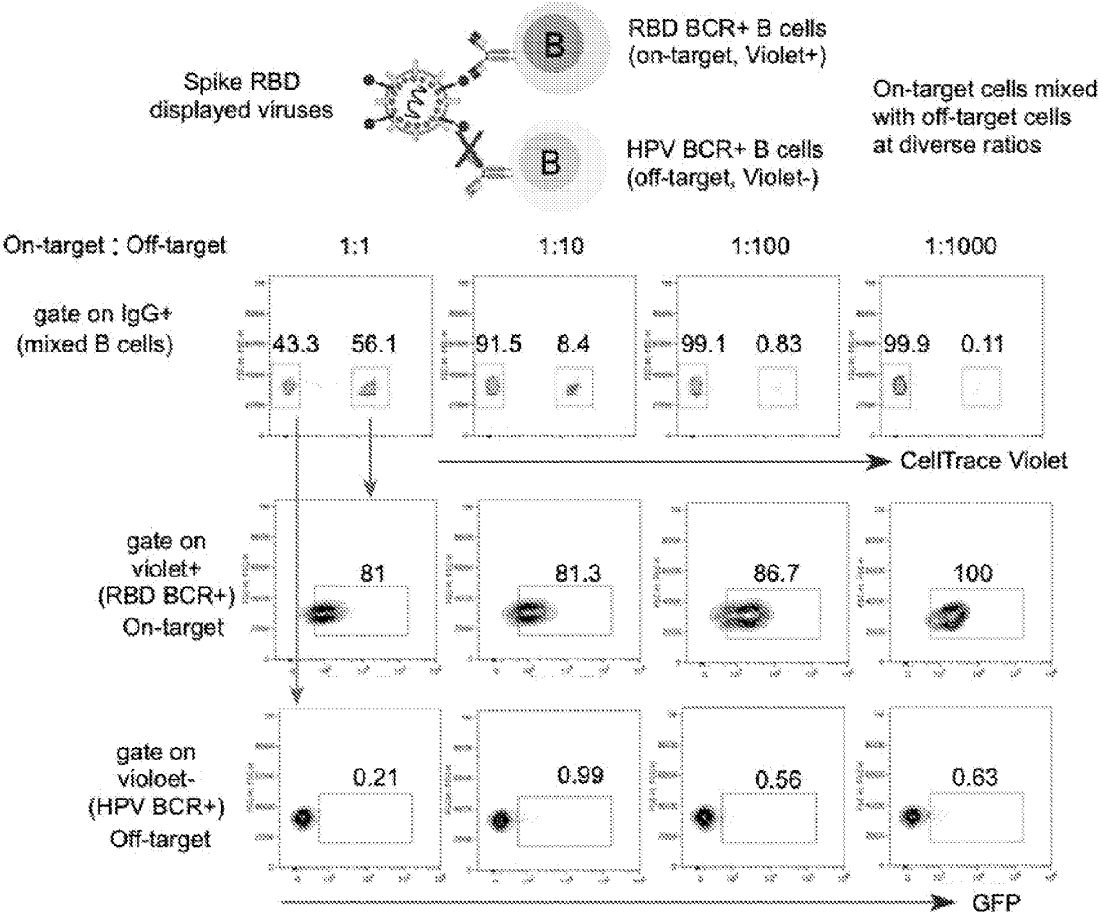


FIG. 3I

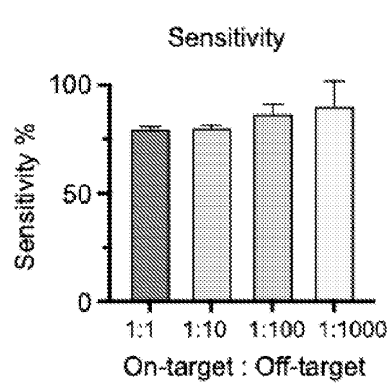


FIG. 3J

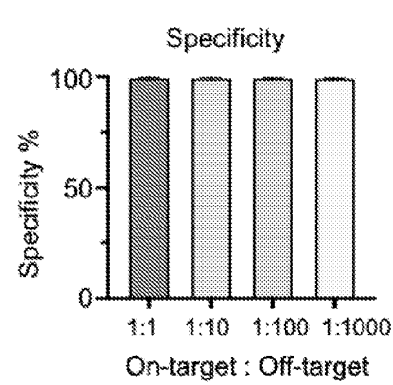


FIG. 3K

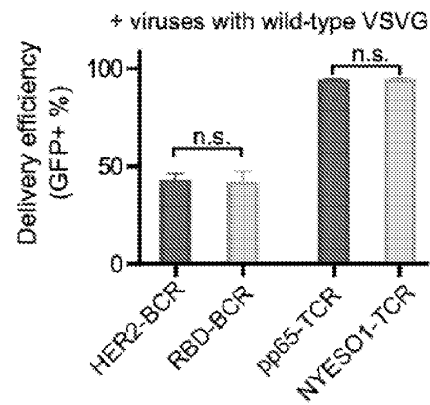


FIG. 3L

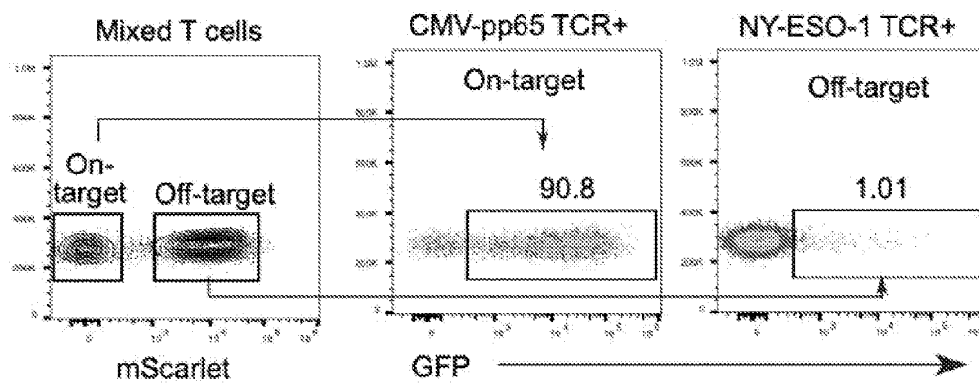


FIG. 3M

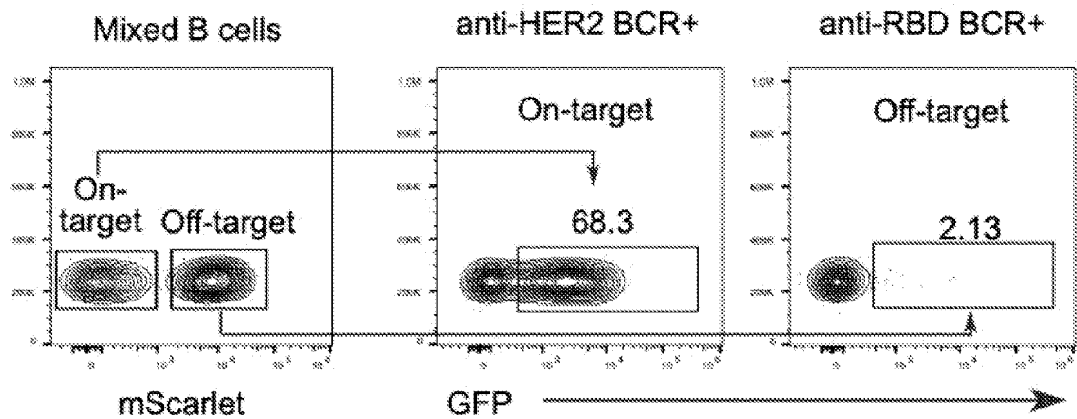


FIG. 3N

FAS shRNA knockdown efficiency

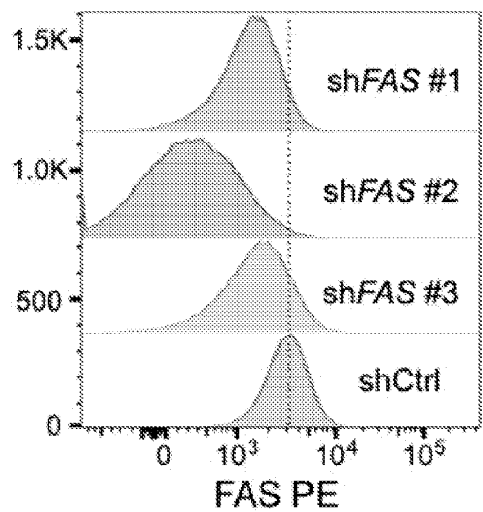


FIG. 3O

anti-FAS induced cell death/apoptosis

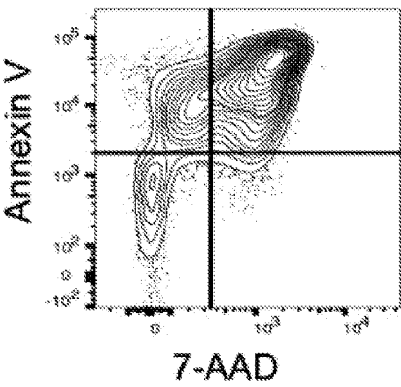


FIG. 3P

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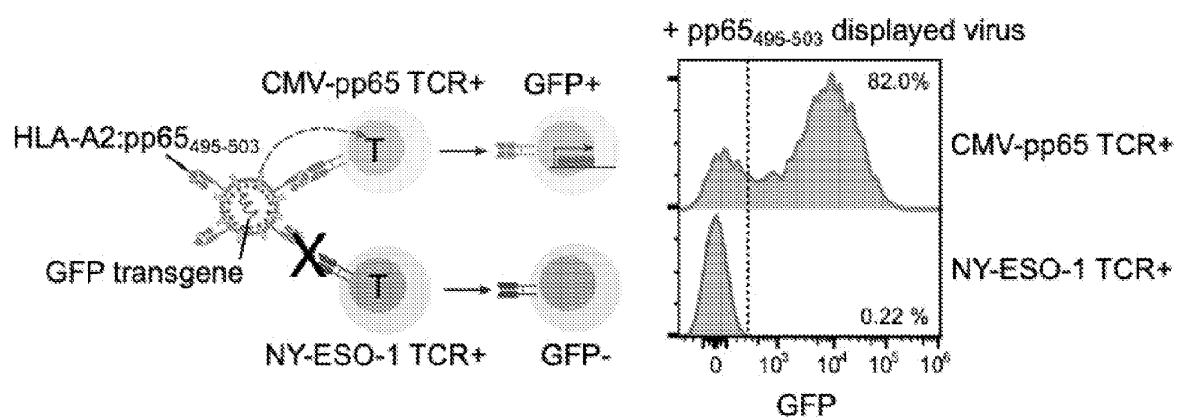


FIG. 4A

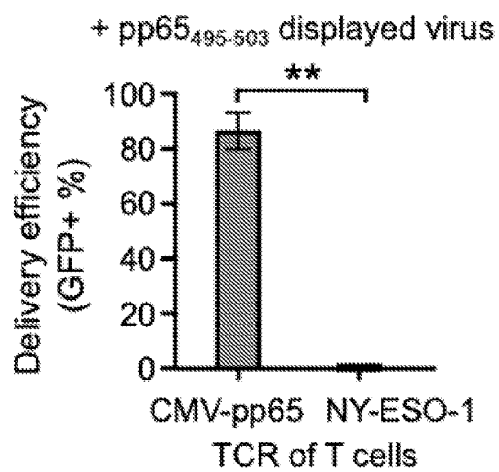


FIG. 4B

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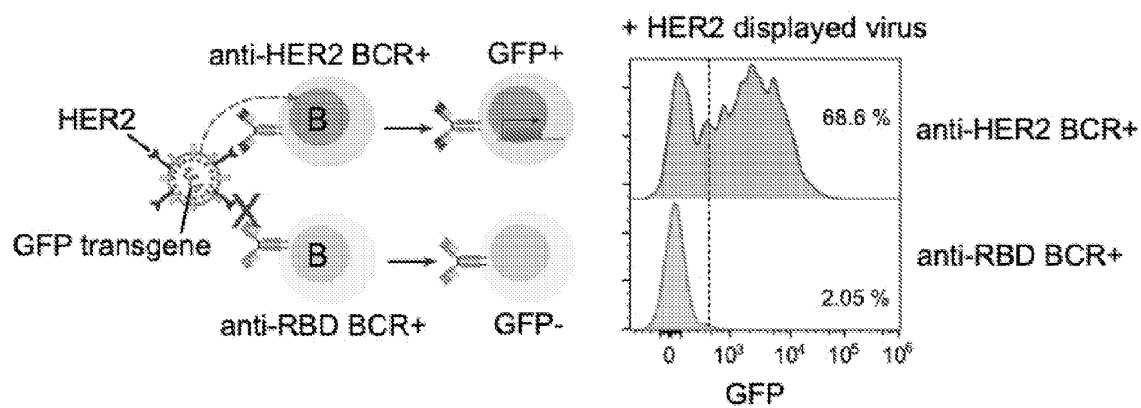


FIG. 4C

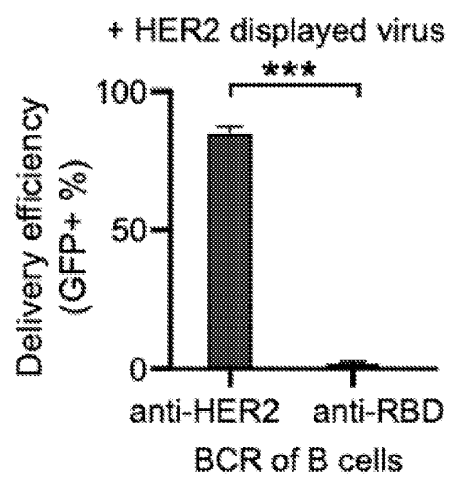


FIG. 4D

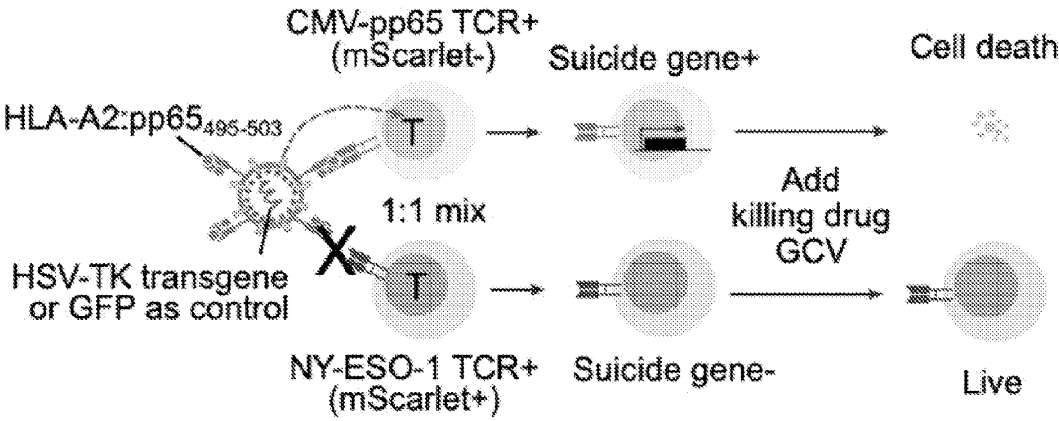


FIG. 4E

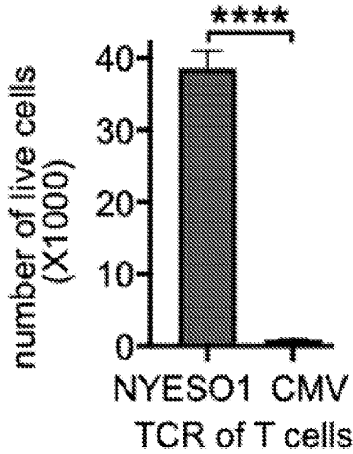


FIG. 4F

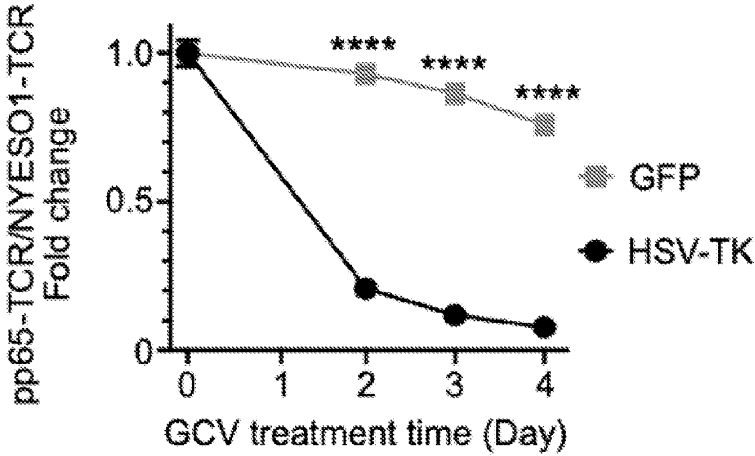


FIG. 4G

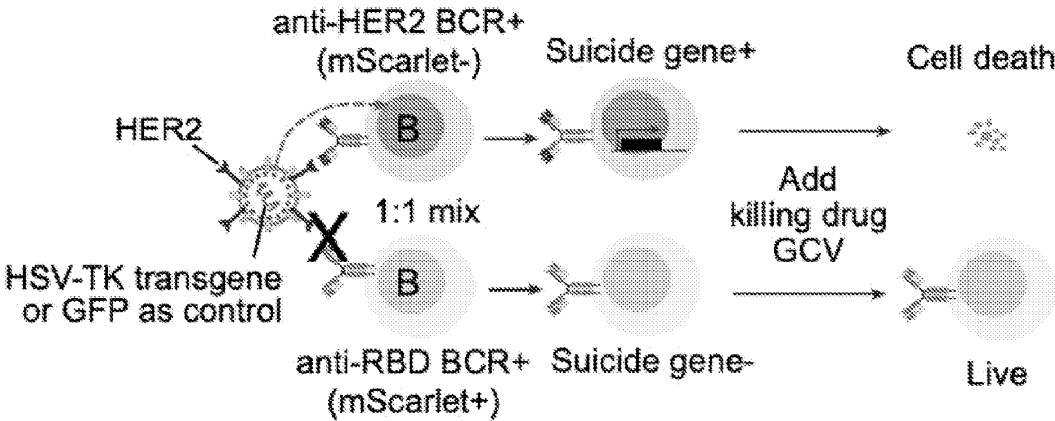


FIG. 4H

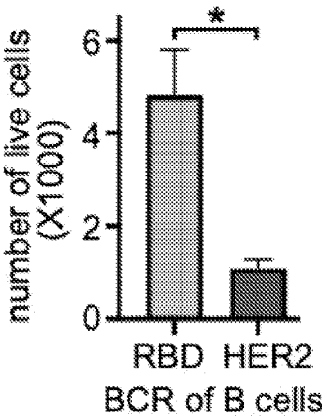


FIG. 4I

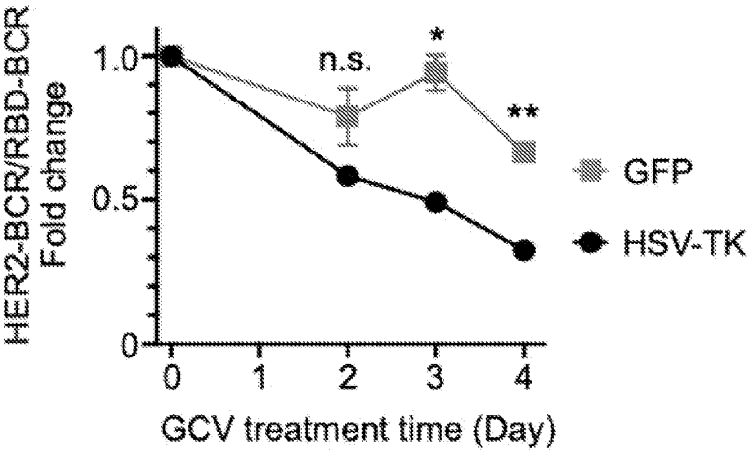


FIG. 4J

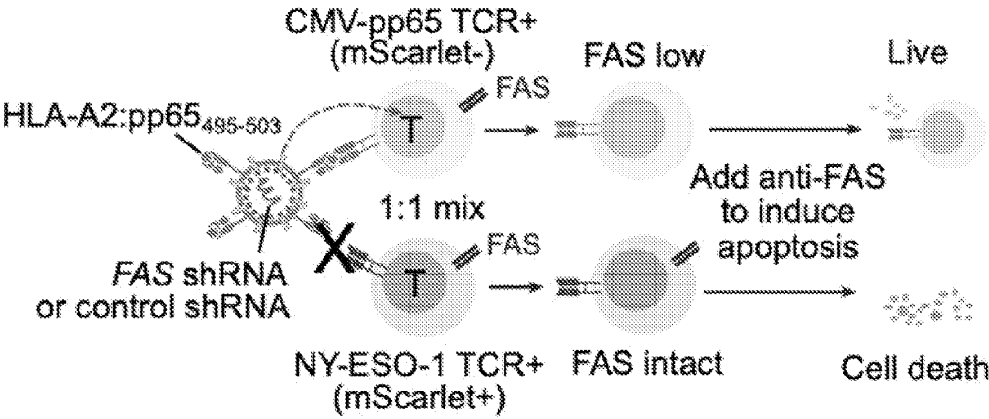


FIG. 4K

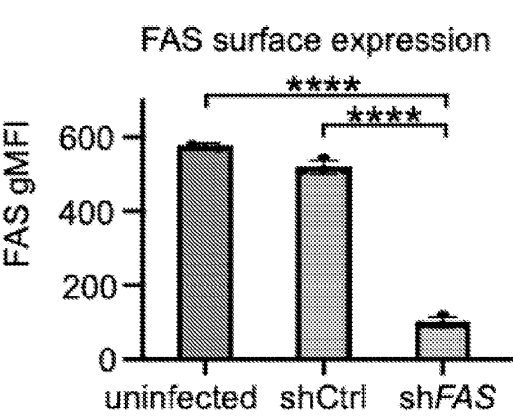


FIG. 4L

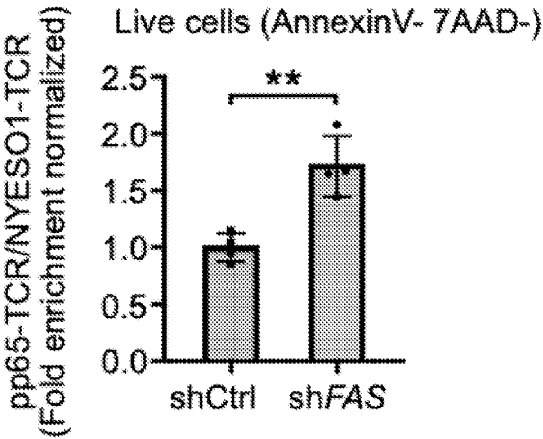


FIG. 4M

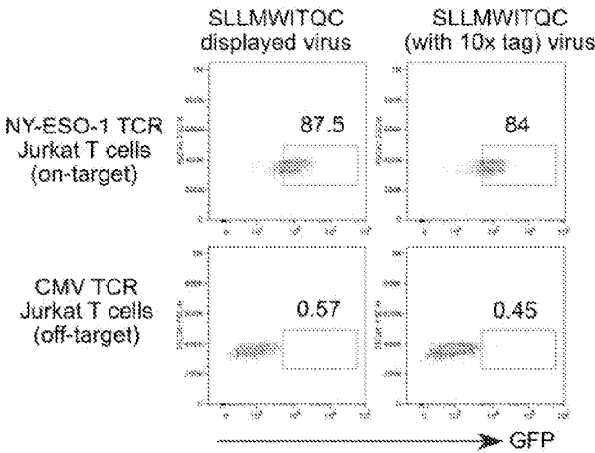


FIG. 4N

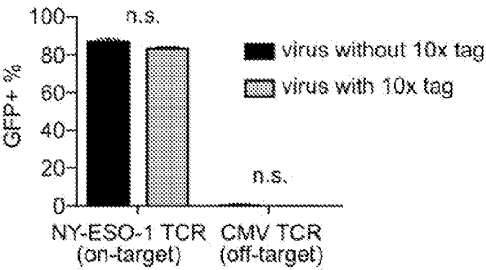


FIG. 4O

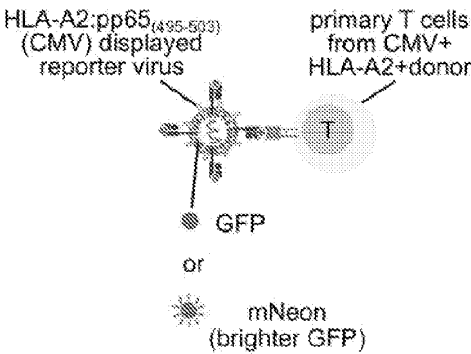


FIG. 4P

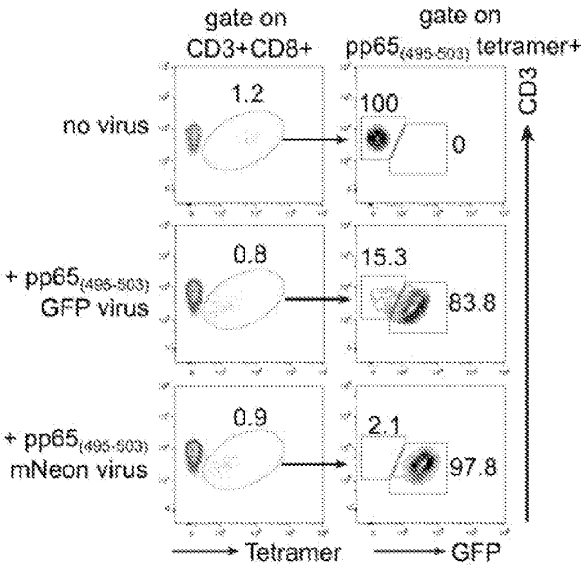


FIG. 4Q

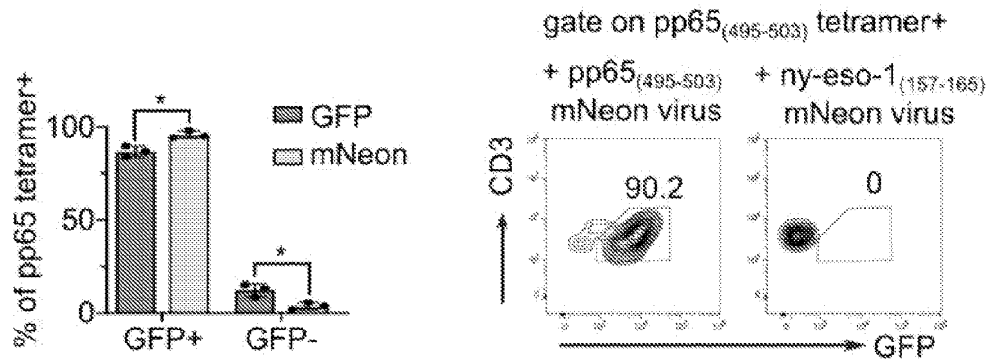


FIG. 4R

FIG. 4S

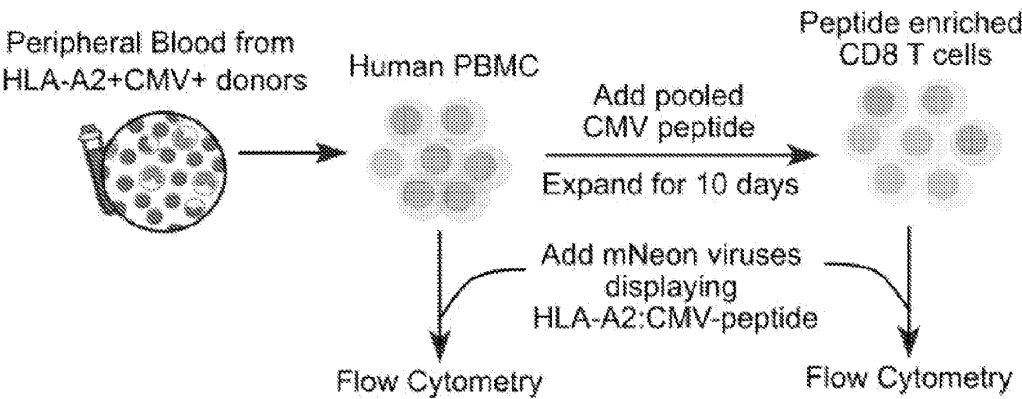


FIG. 4T

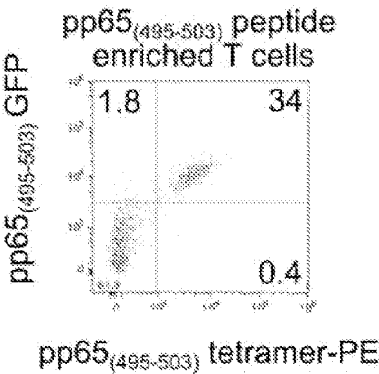


FIG. 4U

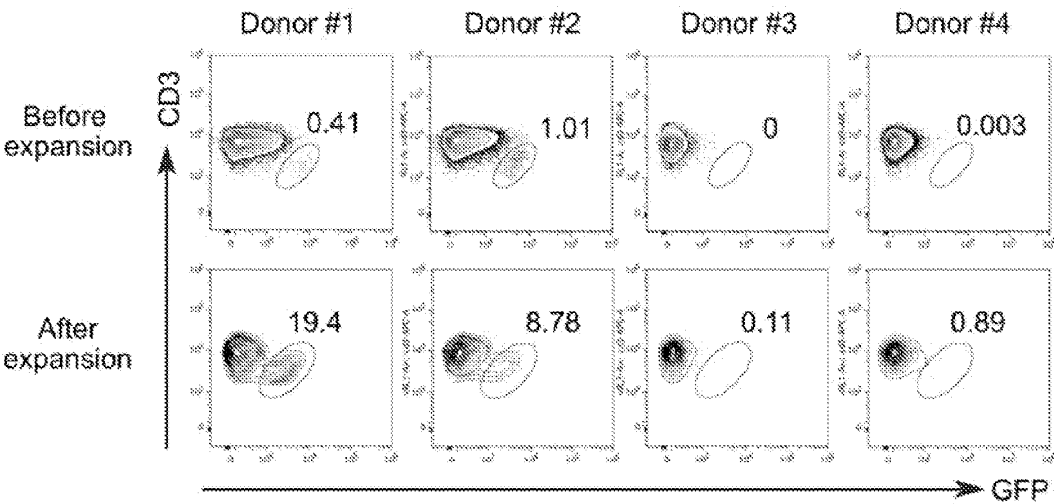


FIG. 4V

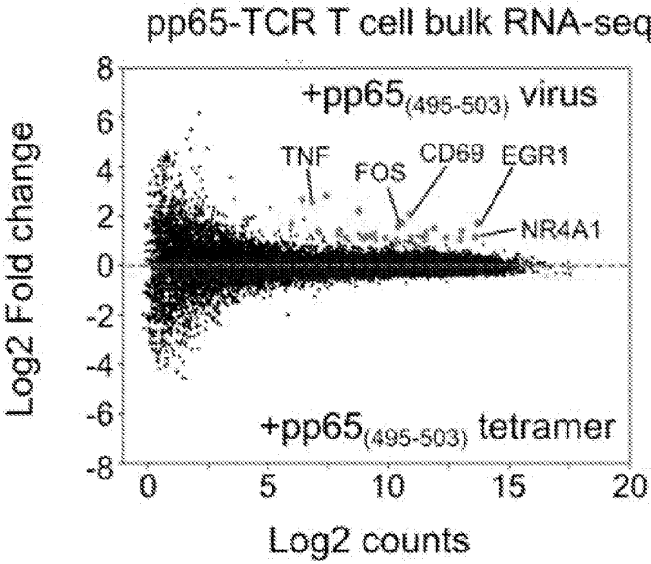


FIG. 4W

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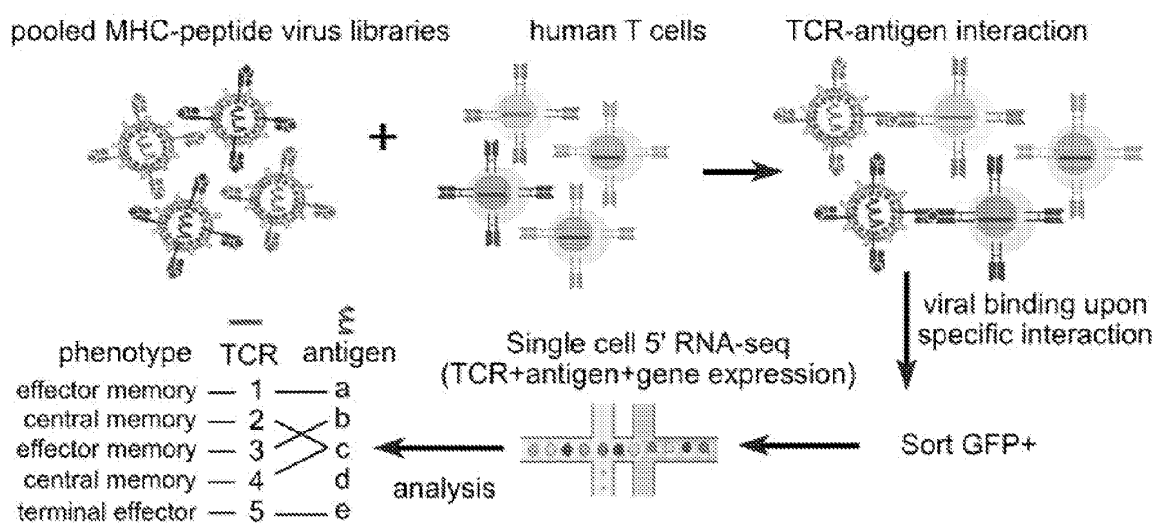


FIG. 5A

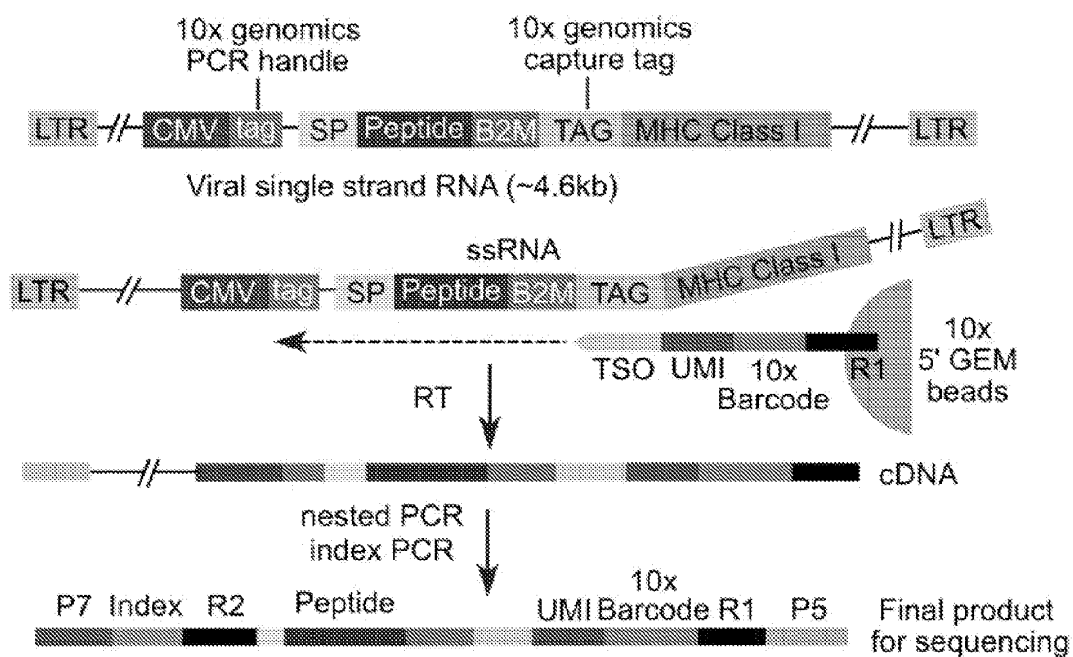


FIG. 5B

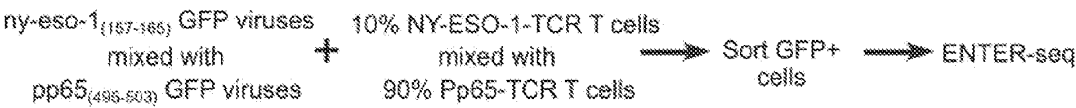


FIG. 5C

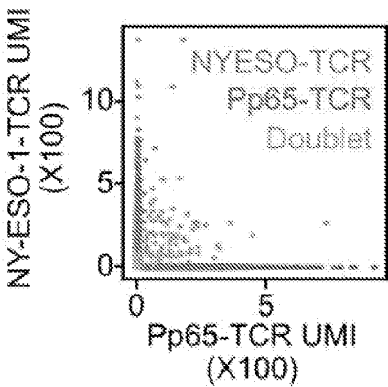


FIG. 5D

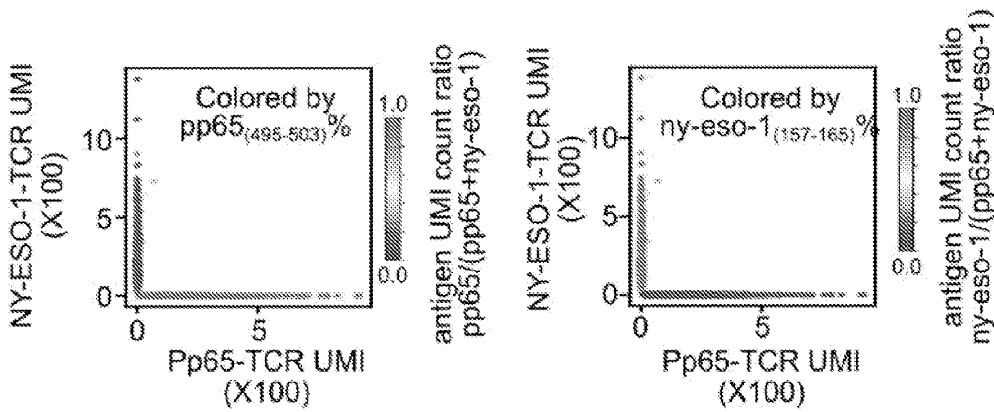


FIG. 5E

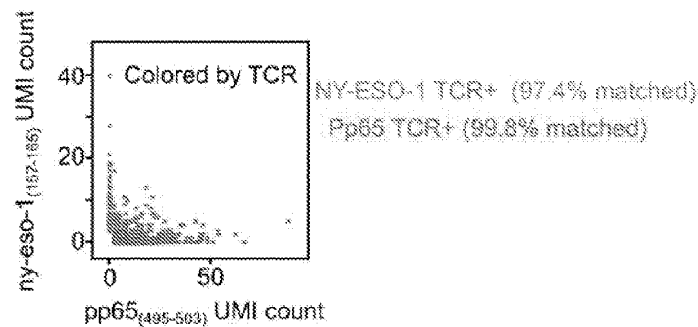


FIG. 5F

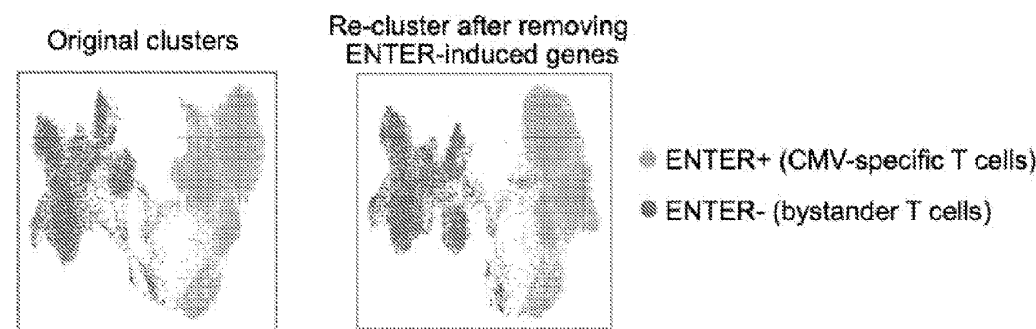


FIG. 5G

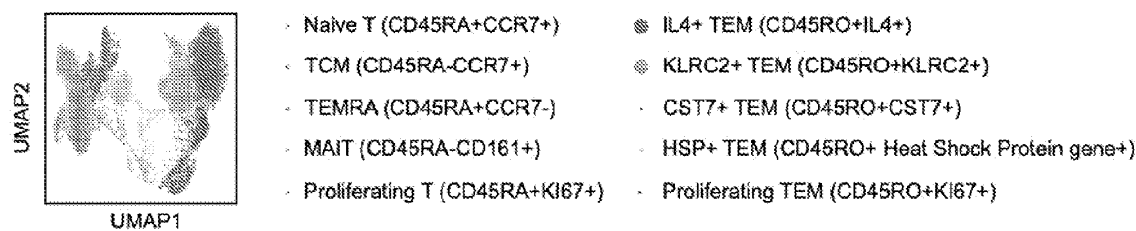


FIG. 5H

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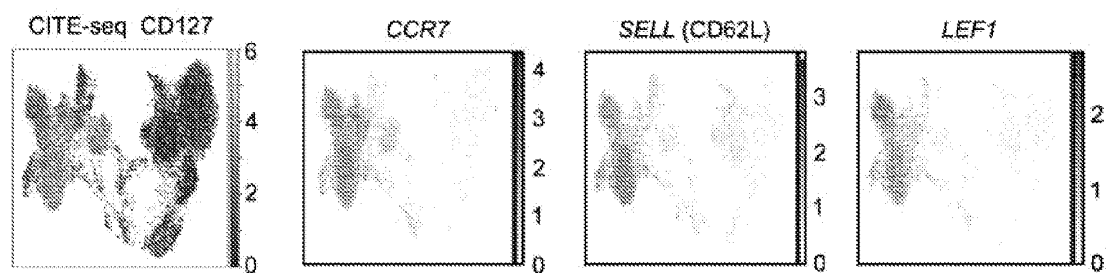


FIG. 5I

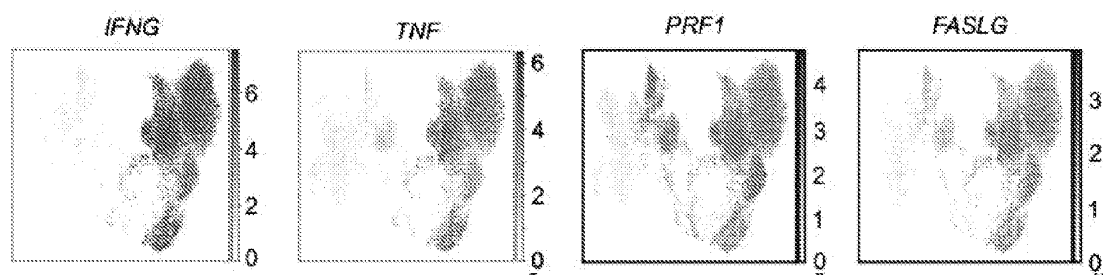


FIG. 5J

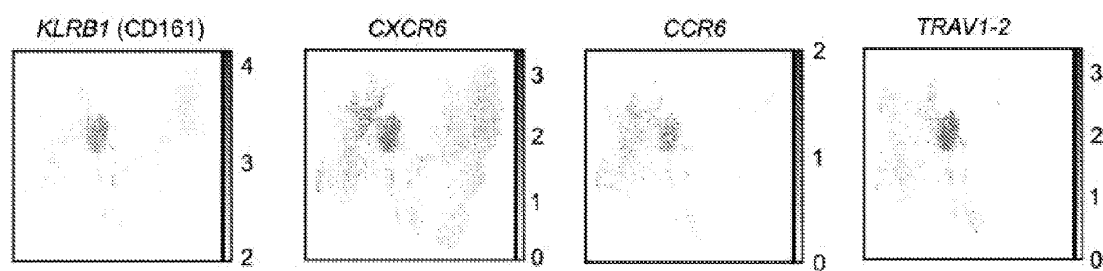


FIG. 5K

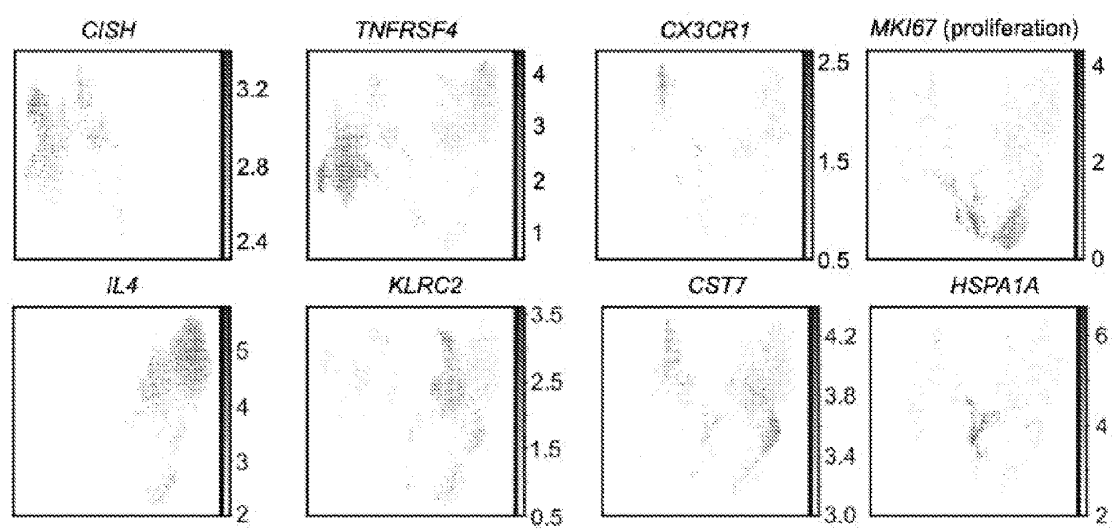


FIG. 5L

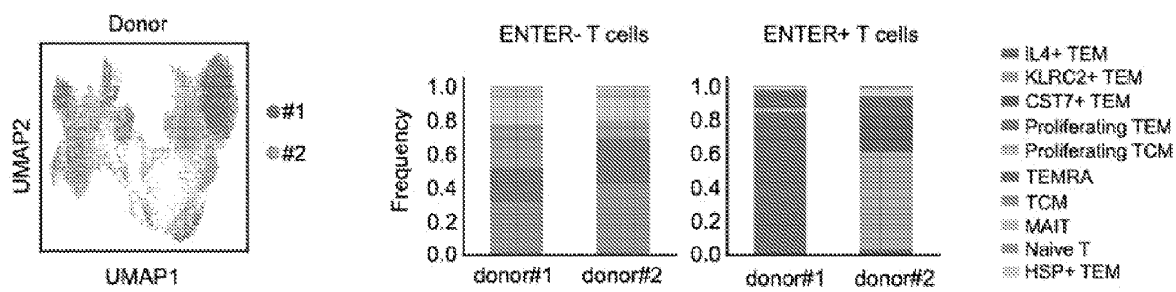


FIG. 5M

FIG. 5N

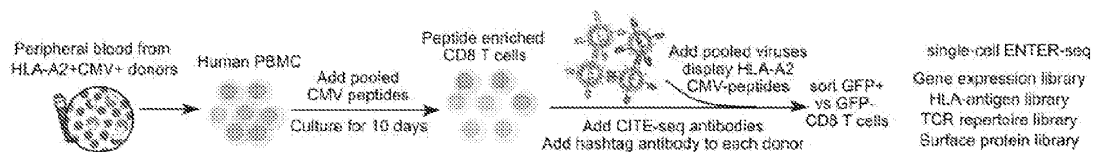


FIG. 6A

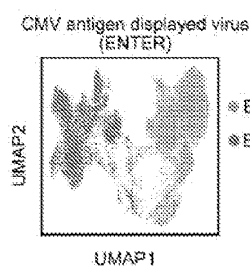


FIG. 6B

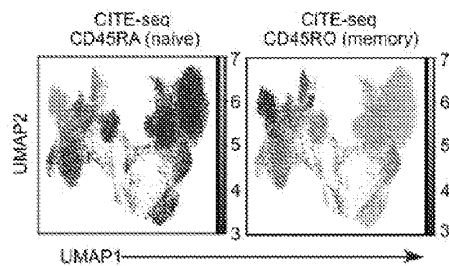


FIG. 6C

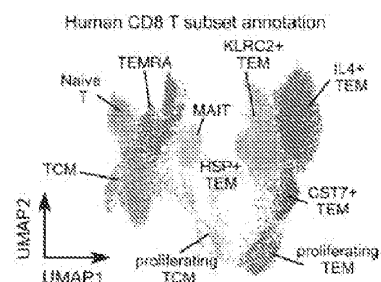


FIG. 6D

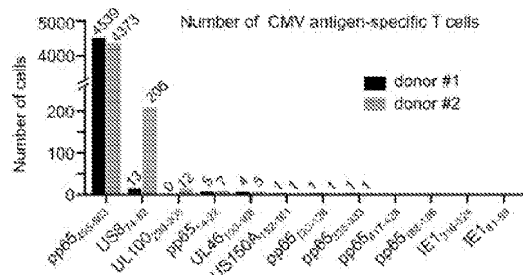


FIG. 6E

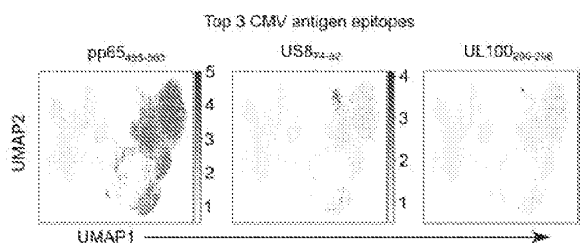


FIG. 6F

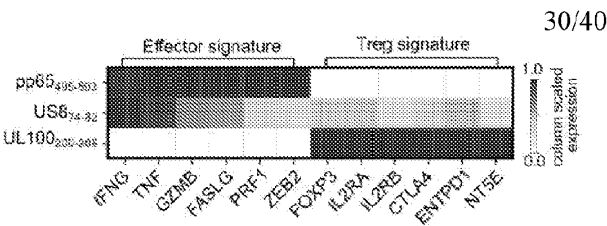


FIG. 6G

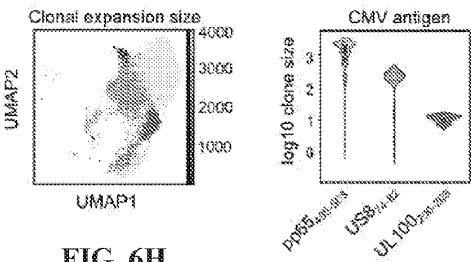


FIG. 6H

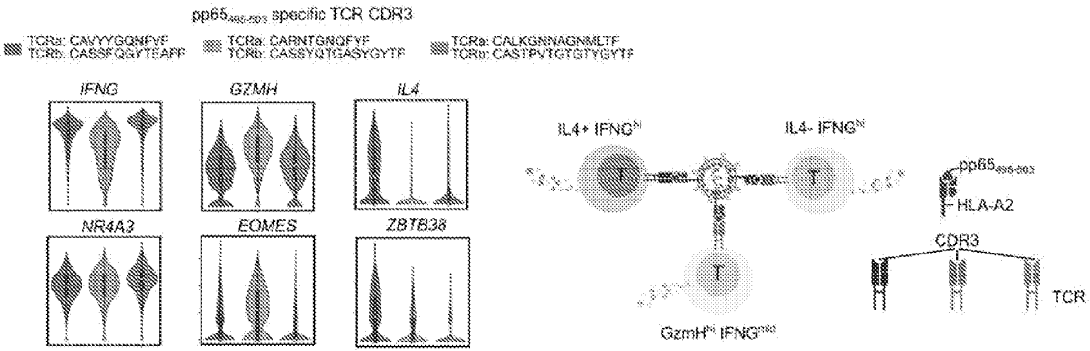


FIG. 6I

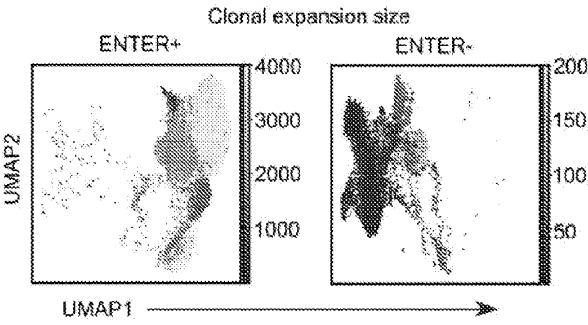


FIG. 6J

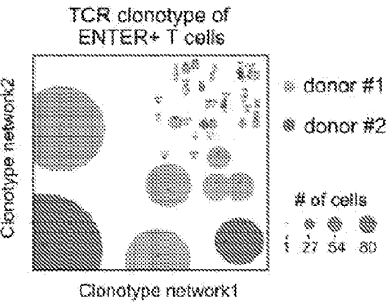


FIG. 6K

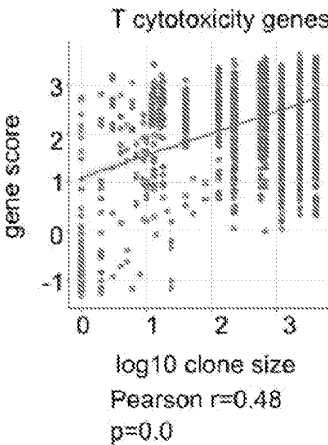


FIG. 6L

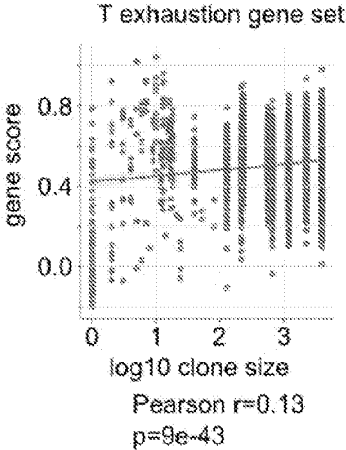
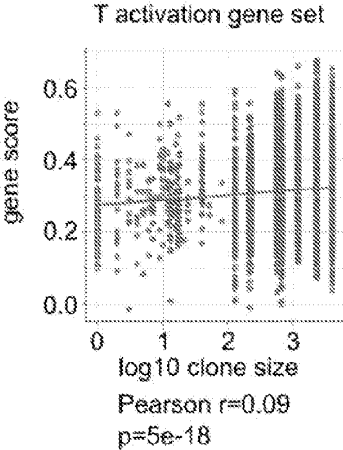


FIG. 6M



pp65₄₉₅₋₅₀₃ specific TCR clones

clone_id	CDR3_TCRb	CDR3_TCRa	donor	# cells
0	QASSFQGYTEAFF	QAVYYQNFVF	#1	3856
1	QASTPVTGTGTGYTF	QALKQNNACMLTF	#2	2195
2	QASSYQTGASYGYTF	QARNTQNFVF	#2	1166
3	QASSFQGYTEAFF	QAVYYQNFVF	#1	636
4	QASTPVTGTGTGYTF	QALKQNNACMLTF	#2	550
6	QASSYQTGASYGYTF	QARNTQNFVF	#2	209

FIG. 6N

US8 ₇₄₋₈₂ specific TCR clones				
clone_id	CDR3_TCRb	CDR3_TCRa	donor	# cells
8	CASSLEGTPEDEFF	CAFQGGYQKVIF	#2	227
9	CASSVEGLAGEFF	CAVGGGAQKLVF	#2	16
24	CATSDFEGRDTGELFF	CAVTITFFSGGYNKLIF	#1	6

UL100 ₂₀₀₋₂₀₈ specific TCR clones				
clone_id	CDR3_TCRb	CDR3_TCRa	donor	# cells
20	CASSPYGGGSEDEFF	CASHNSGYALNF	#2	13
16	CATSPROLAGVASINEOFF	CAVSRNDYKLSF	#2	10
35	CASSPYGGGSEDEFF	N.A.	#2	7

FIG. 6O

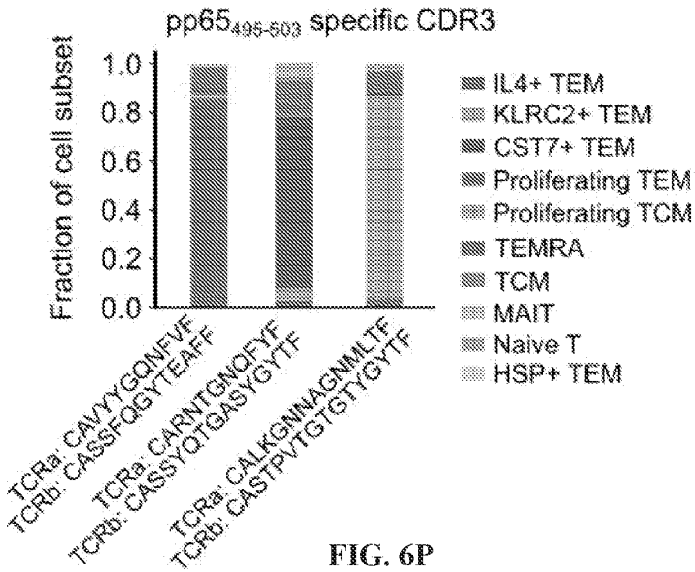


FIG. 6P

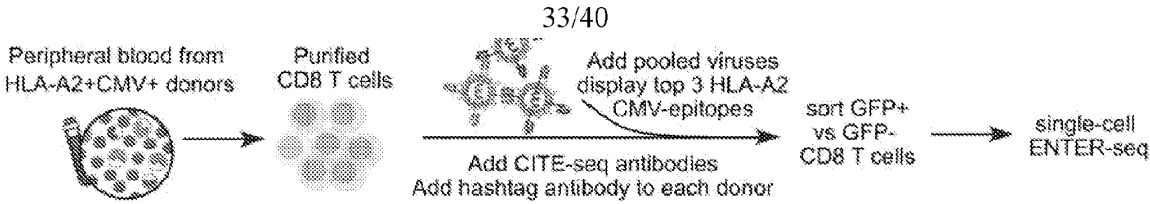


FIG. 7A

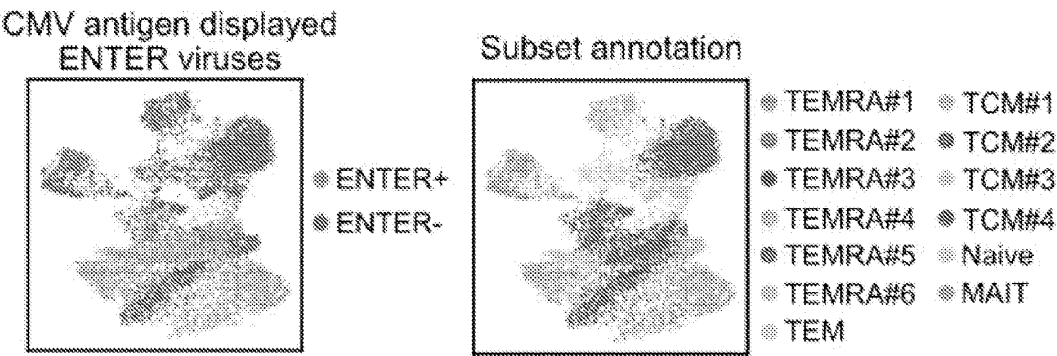


FIG. 7B

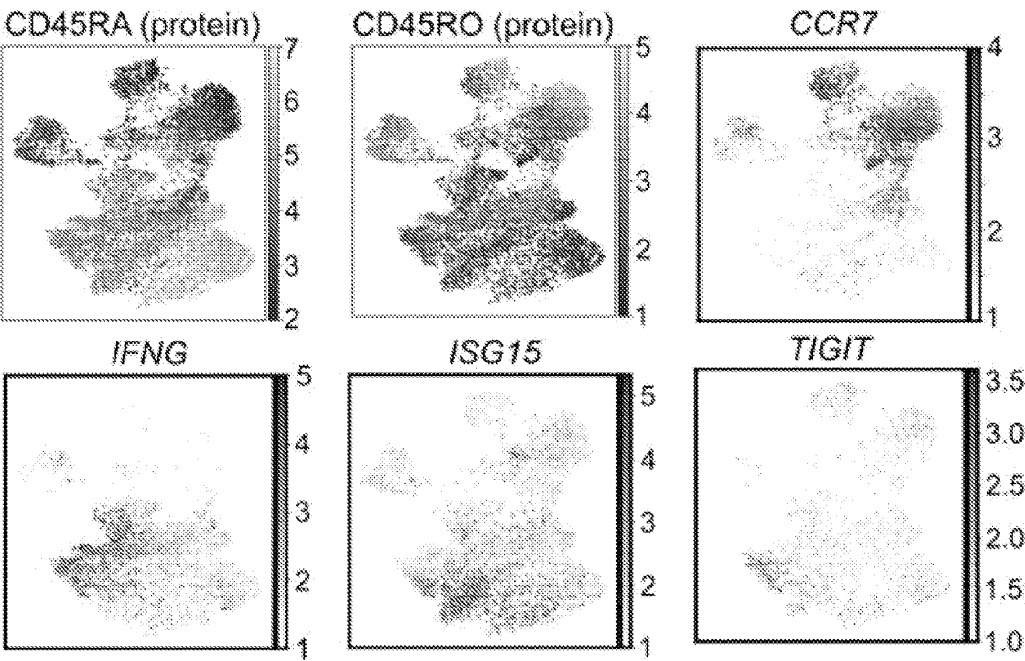


FIG. 7C

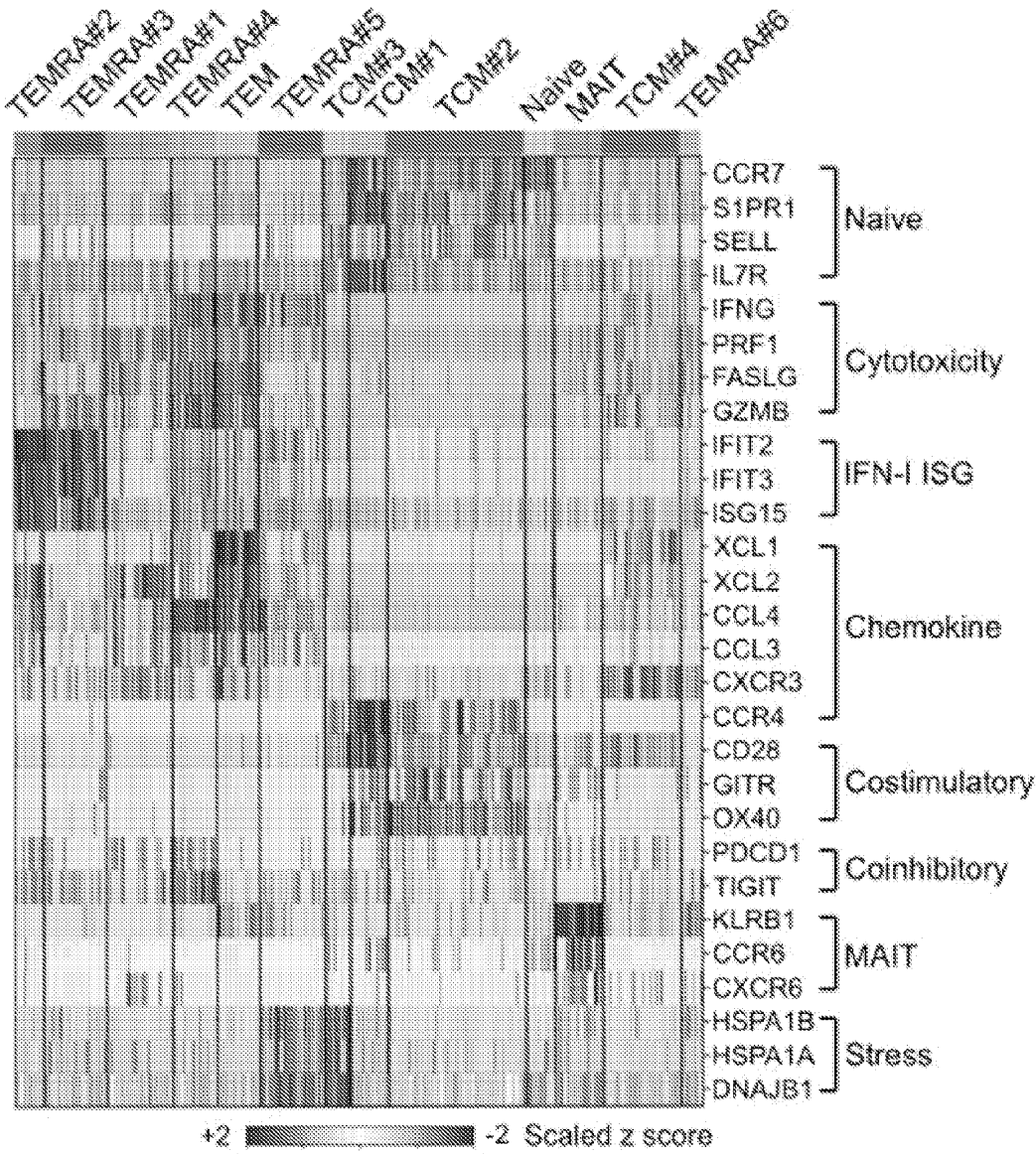


FIG. 7D

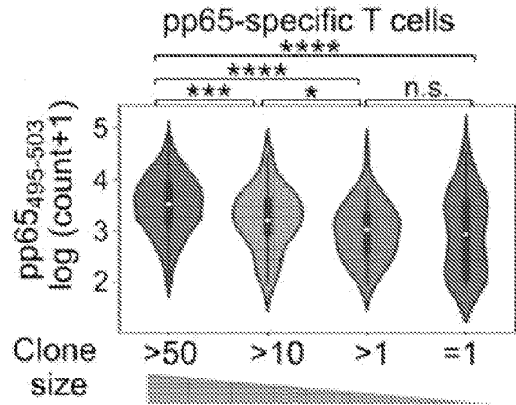
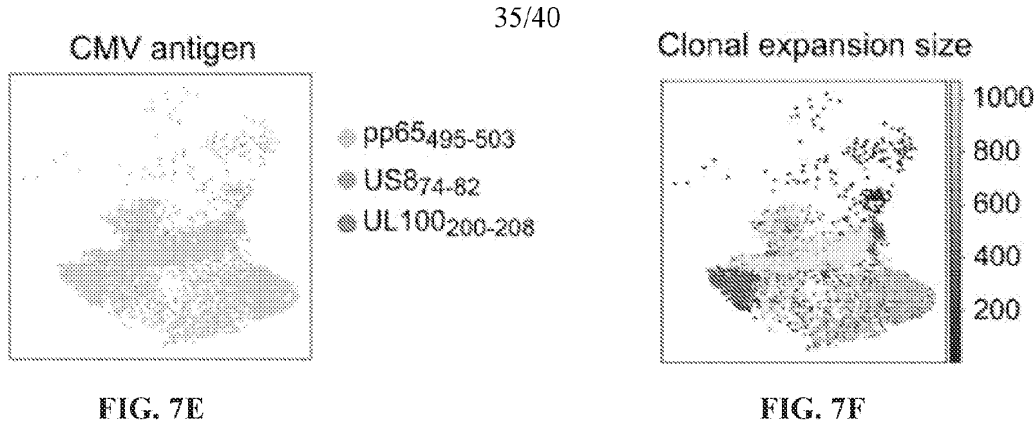


FIG. 7G

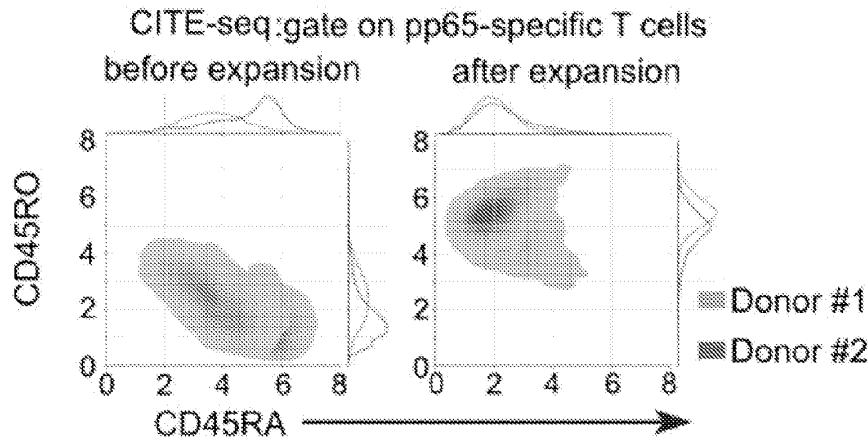


FIG. 7H

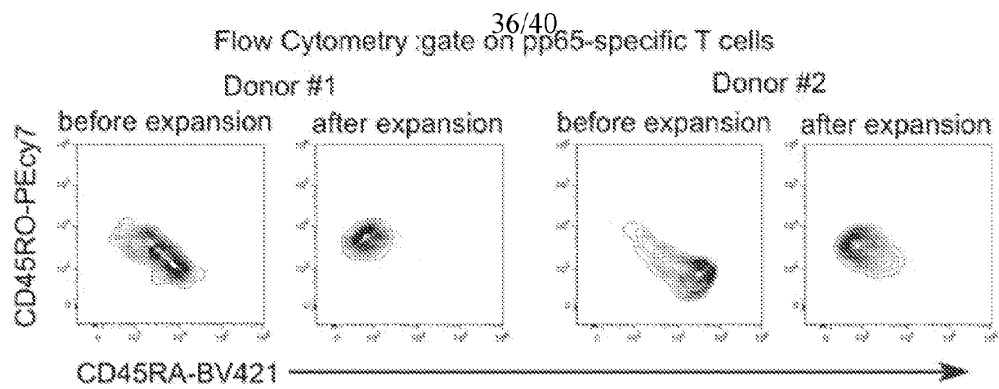


FIG. 7I

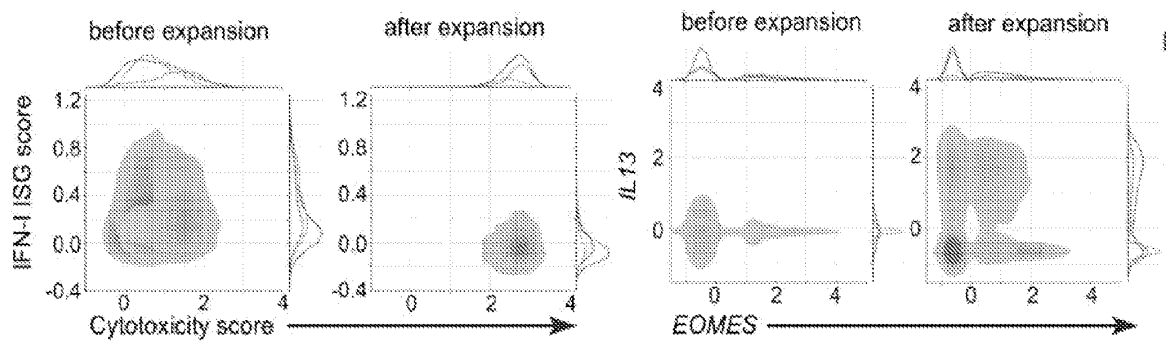


FIG. 7J

pp65-specific TCR clones

clone #1 TCRa: CAVYYGQNFVF
 TCRb: CASSFQGYTEAFF

clone #2 TCRa: CALKQNNAGNMLTF
 TCRb: CASTPVTGTGTGYGYTF

clone #3 TCRa: CARNITGNQFYF
 TCRb: CASSYQTGASYGYTF

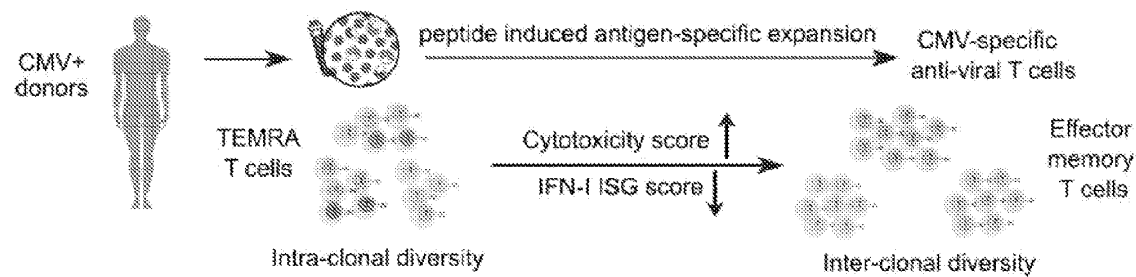


FIG. 7K

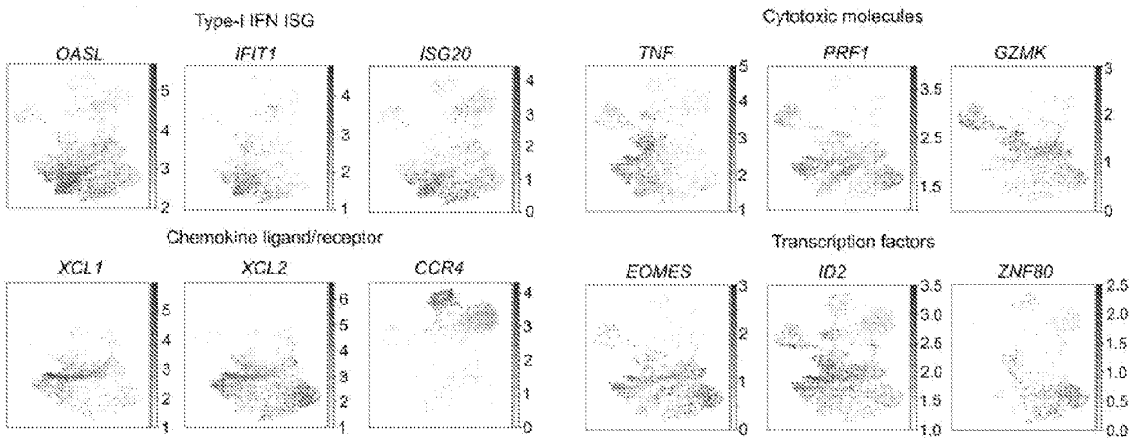


FIG. 7L

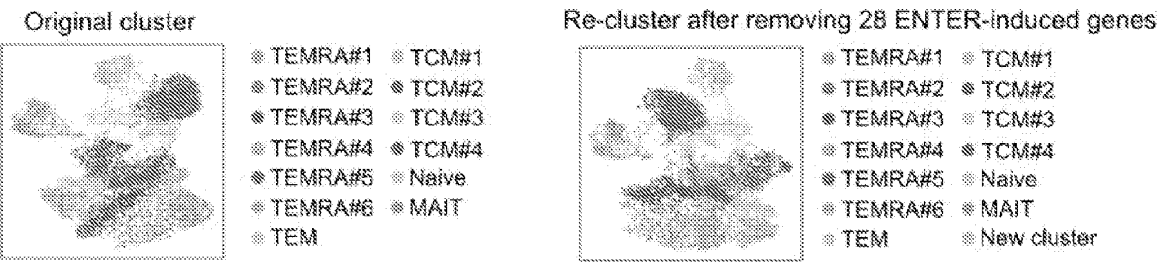


FIG. 7M

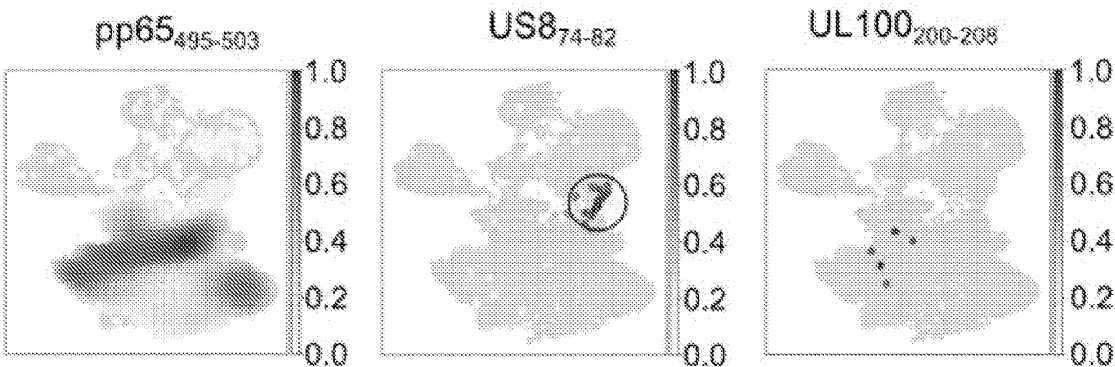


FIG. 7N

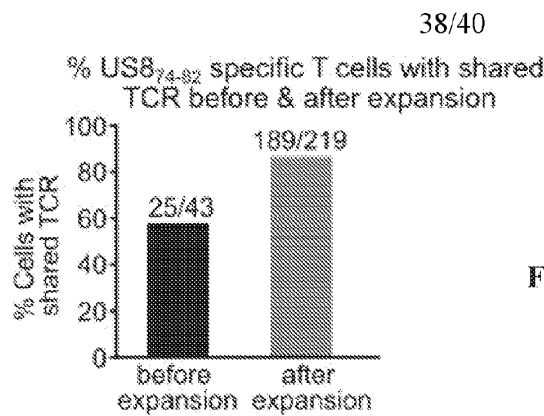


FIG. 7O

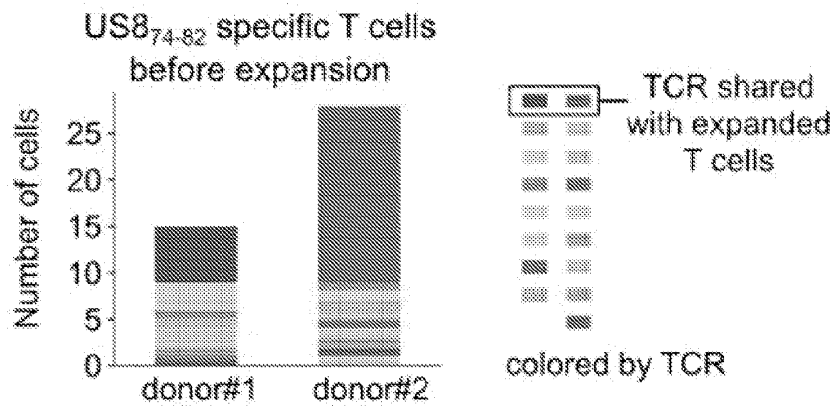


FIG. 7P

TCR CDR3 sequence shared before & after expansion	TCR%		donor Id
	before expansion	after expansion	
TCRa:CAVTVTFFSGGYNKLIF TCRb:CATSDFEGGRDTGELFF	40% (6/15)	46% (6/13)	#1
TCRa:CAFQGGYQKVTF TCRb:CASSLEGTPGDEQFF	67.8% (19/28)	89.2% (183/206)	#2

FIG. 7Q

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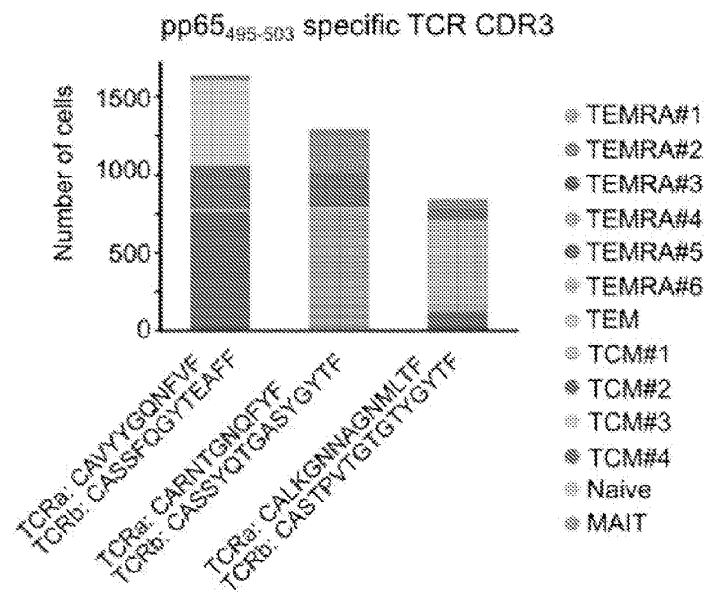


FIG. 7R

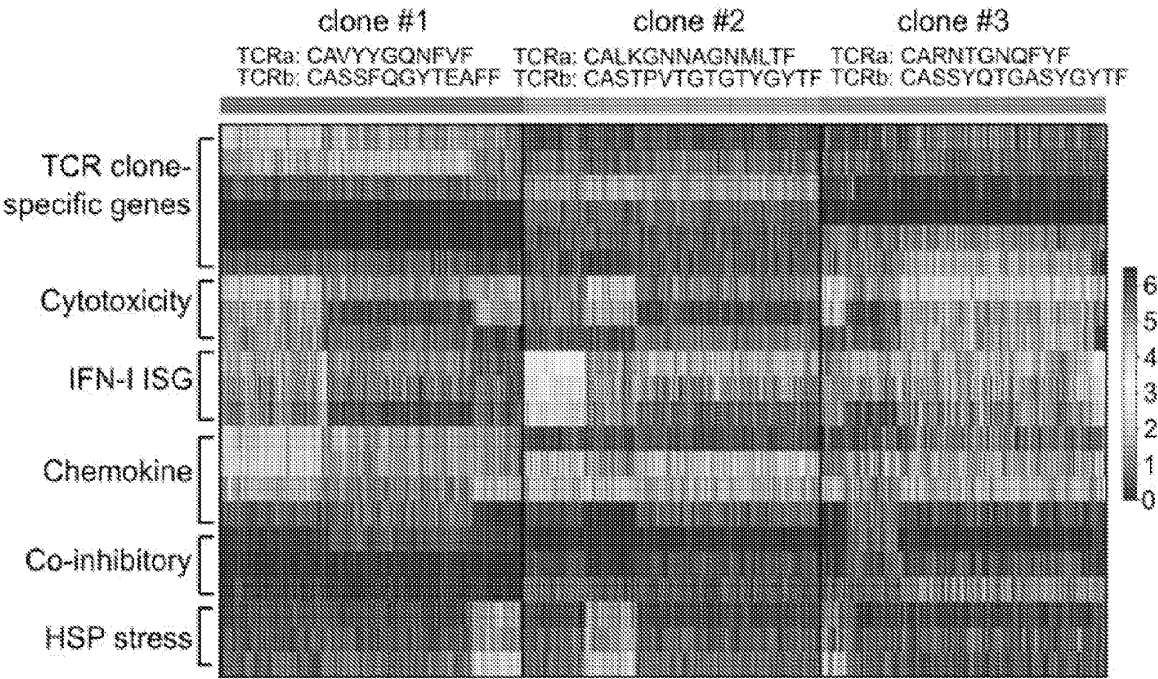


FIG. 7S

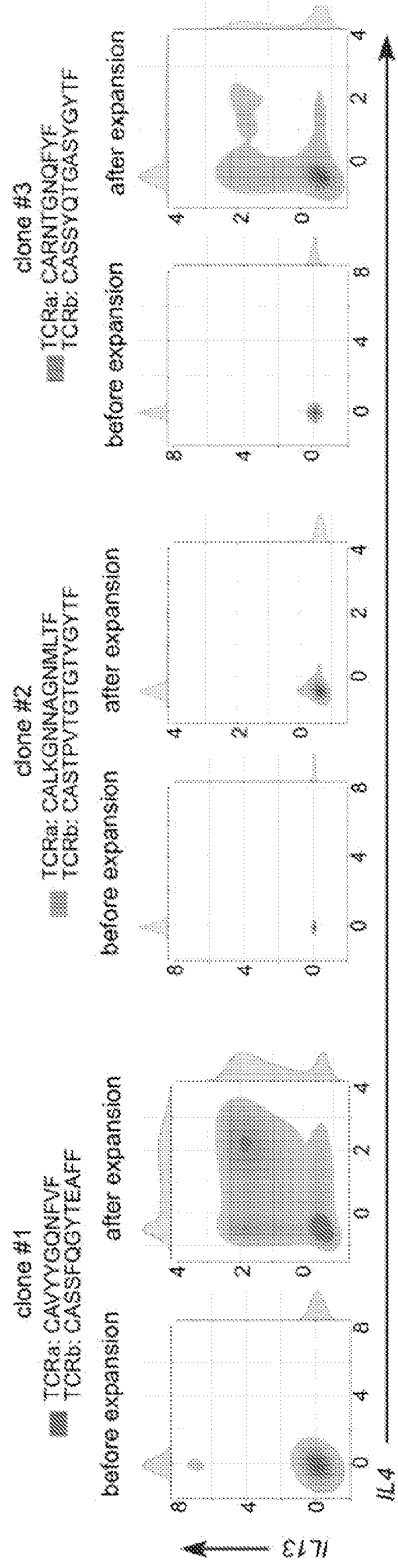


FIG. 7F