

FIG. 1

	CDR1 α	CDR2 α	CDR3 α	CDR1 β	CDR2 β	CDR3 β	TRA_VJ	TRB_VDJ	Target epitope
L2-1	TSINN (SEQ ID NO: 1)	IRSNERE (SEQ ID NO: 2)	CATTGDSGYSTLTTF (SEQ ID NO: 3)	MNHEY (SEQ ID NO: 4)	SVGAGI (SEQ ID NO: 5)	CASTRQGGNEQFF (SEQ ID NO: 6)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ2-1	356-364
L2-2	TSINN (SEQ ID NO: 7)	IRSNERE (SEQ ID NO: 8)	CATEGDSGYSTLTTF (SEQ ID NO: 9)	MNHEY (SEQ ID NO: 10)	SVGAGI (SEQ ID NO: 11)	CASSYQGGNHYGYTF (SEQ ID NO: 12)	TRAV17, TRAJ11	TRBV6-5, TRBD2, TRBJ1-2	356-364
L2-3	TSINN (SEQ ID NO: 13)	IRSNERE (SEQ ID NO: 14)	CATEGDSGYSTLTTF (SEQ ID NO: 15)	MNHEY (SEQ ID NO: 16)	SVGAGI (SEQ ID NO: 17)	CASNTQGGHYGYTF (SEQ ID NO: 18)	TRAV17, TRAJ11	TRBV6-5, TRBD2, TRBJ1-2	356-364
L2-5	TSINN (SEQ ID NO: 19)	IRSNERE (SEQ ID NO: 20)	CATQGDSDGYSTLTTF (SEQ ID NO: 21)	MNHEY (SEQ ID NO: 22)	SVGAGI (SEQ ID NO: 23)	CASSYQGGTRNGYTF (SEQ ID NO: 24)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ1-2	356-364
L2-6	TSINN (SEQ ID NO: 25)	IRSNERE (SEQ ID NO: 26)	CATVGNDSGYSTLTTF (SEQ ID NO: 27)	MNHEY (SEQ ID NO: 28)	SVGAGI (SEQ ID NO: 29)	CASSGQGGSDGYTF (SEQ ID NO: 30)	TRAV17, TRAJ11	TRBV6-5, TRBD2, TRBJ1-2	356-364
L2-9	TSINN (SEQ ID NO: 31)	IRSNERE (SEQ ID NO: 32)	CATNGESGYSTLTTF (SEQ ID NO: 33)	MNHEY (SEQ ID NO: 34)	SVGAGI (SEQ ID NO: 35)	CASSTQGGGDGYTF (SEQ ID NO: 36)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ1-2	356-364
L2-10	TSINN (SEQ ID NO: 37)	IRSNERE (SEQ ID NO: 38)	CAYEGNSGYSTLTTF (SEQ ID NO: 39)	MNHEY (SEQ ID NO: 40)	SVGAGI (SEQ ID NO: 41)	CASSTQGGADGYTF (SEQ ID NO: 42)	TRAV17, TRAJ11	TRBV6-5, TRBD2, TRBJ1-2	356-364
L2-11	TSINN (SEQ ID NO: 43)	IRSNERE (SEQ ID NO: 44)	CATEGDSGYSTLTTF (SEQ ID NO: 45)	MNHEY (SEQ ID NO: 46)	SVGAGI (SEQ ID NO: 47)	CASRVQGGIEGYTF (SEQ ID NO: 48)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ1-2	356-364

L2-12	TSINN (SEQ ID NO: 49)	IRSNERE (SEQ ID NO: 50)	CATEGDSGYSTLTF (SEQ ID NO: 51)	MNHEY (SEQ ID NO: 52)	SVGAGI (SEQ ID NO: 53)	CASNQQGGGGYGYTF (SEQ ID NO: 54)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ1-2	356-364
L2-13	TSINN (SEQ ID NO: 55)	IRSNERE (SEQ ID NO: 56)	CATEGDSGYSTLTF (SEQ ID NO: 57)	MNHEY (SEQ ID NO: 58)	SVGAGI (SEQ ID NO: 59)	CASRVQGGIEGYTF (SEQ ID NO: 60)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ1-2	356-364
L2-16	TSINN (SEQ ID NO: 61)	IRSNERE (SEQ ID NO: 62)	CATEGDSGYSTLTF (SEQ ID NO: 63)	MNHEY (SEQ ID NO: 64)	SVGAGI (SEQ ID NO: 65)	CASSFQGGGNVGYTF (SEQ ID NO: 66)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ1-2	356-364
L2-19	TSINN (SEQ ID NO: 67)	IRSNERE (SEQ ID NO: 68)	CATEGDSGYSTLTF (SEQ ID NO: 69)	MNHEY (SEQ ID NO: 70)	SVGAGI (SEQ ID NO: 71)	CASSSQGGWNVGYT F (SEQ ID NO: 72)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ1-2	356-364
L2-23	TSINN (SEQ ID NO: 73)	IRSNERE (SEQ ID NO: 74)	CAPLGEAGYSTLTF (SEQ ID NO: 75)	MNHEY (SEQ ID NO: 76)	SVGAGI (SEQ ID NO: 77)	CASSRQGSYNEQFF (SEQ ID NO: 78)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ2-1	356-364
L2-24	TSINN (SEQ ID NO: 79)	IRSNERE (SEQ ID NO: 80)	CATVGDSDGYSTLTF (SEQ ID NO: 81)	MNHEY (SEQ ID NO: 82)	SVGAGI (SEQ ID NO: 83)	CASN PQGSGSYGYTF (SEQ ID NO: 84)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ1-2	356-364
L2-25	TSINN (SEQ ID NO: 85)	IRSNERE (SEQ ID NO: 86)	CATEGDSGYSTLTF (SEQ ID NO: 87)	MNHEY (SEQ ID NO: 88)	SVGAGI (SEQ ID NO: 89)	CASTRQGGNEQFF (SEQ ID NO: 90)	TRAV17, TRAJ11	TRBV6-5, TRBD1, TRBJ2-1	356-364
L208	DSAIYN (SEQ ID NO: 143)	IQSSQRE (SEQ ID NO: 144)	CAVLMDSNYQLIWF (SEQ ID NO: 145)	WSHSY (SEQ ID NO: 146)	SAADI (SEQ ID NO: 147)	CASSEDGMNTEAFF (SEQ ID NO: 148)	TRAV21, TRAJ33	TRBV10-2, TRBJ2-7	426-434

FIG. 2 (CONTINUED)

	CDR1 α	CDR2 α	CDR3 α	CDR1 β	CDR2 β	CDR3 β	TRA_VJ	TRB_VDJ	Target epitope
L11-3	TTLN (SEQ ID NO: 91)	LVKSGEV (SEQ ID NO: 92)	CADPDGLIF (SEQ ID NO: 93)	SGHNS (SEQ ID NO: 94)	FNNNVP (SEQ ID NO: 95)	CASSLGAGAGYGYTF (SEQ ID NO: 96)	TRAV25, TRAJ23	TRBV12-4, TRBD2, TRBJ1-1	340-349
L11-6	DSVNN (SEQ ID NO: 97)	IPSGT (SEQ ID NO: 98)	CAVDGGNKLVF (SEQ ID NO: 99)	SGHNS (SEQ ID NO: 100)	FNNNVP (SEQ ID NO: 101)	CASSLGAGSGWEQYF (SEQ ID NO: 102)	TRAV22, TRAJ47	TRBV12-3, TRBD2, TRBJ2-1	340-349
L11-15	NYSPAY (SEQ ID NO: 103)	IRENEKE (SEQ ID NO: 104)	CLRNTPLVF (SEQ ID NO: 105)	SGHAT (SEQ ID NO: 106)	FQNGV (SEQ ID NO: 107)	CASSLVPEETQYF (SEQ ID NO: 108)	TRAV6, TRAJ29	TRBV11-2, TRBJ2-5	340-349
L11-20	DSVNN (SEQ ID NO: 149)	IPSGT (SEQ ID NO: 150)	CAVLNNNDMRF (SEQ ID NO: 151)	MGHRA (SEQ ID NO: 152)	YSYKL (SEQ ID NO: 153)	CASSQGRWYEQYF (SEQ ID NO: 154)	TRAV22, TRAJ43	TRBV4-1, TRBJ2-7	340-349
L11-22	NIATNDY (SEQ ID NO: 155)	GYKTK (SEQ ID NO: 156)	CLVGDDQGYSTLTF (SEQ ID NO: 157)	SGHAT (SEQ ID NO: 158)	FQNGV (SEQ ID NO: 159)	CASSFKLVETQYF (SEQ ID NO: 160)	TRAV4, TRAJ11	TRBV11-2, TRBJ2-5	340-349

FIG. 3

	CDR1 α	CDR2 α	CDR3 α	CDR1 β	CDR2 β	CDR3 β	TRA_VJ	TRB_VDJ	Target epitope
L24-49	NSASQS (SEQ ID NO: 109)	VYSSGN (SEQ ID NO: 110)	CVVRGYNF NKFYF (SEQ ID NO: 111)	DFQATT (SEQ ID NO: 112)	SNEGSKA (SEQ ID NO: 113)	CSARGPGEREANTDTQYF (SEQ ID NO: 114)	TRAV12-1, TRAJ21	TRBV20-1, TRBD1, TRBJ2-5	222-230
L24-2	NSASQS (SEQ ID NO: 115)	VYSSGN (SEQ ID NO: 116)	CVVRGYNF NKFYF (SEQ ID NO: 117)	DFQATT (SEQ ID NO: 118)	SNEGSKA (SEQ ID NO: 119)	CSARGPRITDSSTDTQYF (SEQ ID NO: 120)	TRAV12-1, TRAJ21	TRBV20-1, TRBD1, TRBJ2-3	222-230
L24-3	TTLSN (SEQ ID NO: 121)	LVKSGEV (SEQ ID NO: 122)	CARFSDGQK LLF (SEQ ID NO: 123)	MNHNY (SEQ ID NO: 124)	SVGAGI (SEQ ID NO: 125)	CASSCRGRGDCTEAF (SEQ ID NO: 126)	TRAV25, TRAJ16	TRBV6-6, TRBJ1-1	419-427
L24-5	NSAFQY (SEQ ID NO: 127)	TYSSGN (SEQ ID NO: 128)	CAMSAWAS KIIF (SEQ ID NO: 129)	KGHDR (SEQ ID NO: 130)	SFDVKD (SEQ ID NO: 131)	CATSEKGTGRQETQYF (SEQ ID NO: 132)	TRAV12-3, TRAJ3	TRBV24-1, TRBD1, TRBJ2-5	419-427
L24-13	TTLSN (SEQ ID NO: 133)	LVKSGEV (SEQ ID NO: 134)	CARFSDGQK LLF (SEQ ID NO: 135)	MNHNY (SEQ ID NO: 136)	SVGAGI (SEQ ID NO: 137)	CASSNRGGVPDTQYF (SEQ ID NO: 138)	TRAV25, TRAJ16	TRBV6-6, TRBJ2-3	419-427
L24-21	DSAIYN (SEQ ID NO: 161)	IQSSQRE (SEQ ID NO: 162)	CGGLGFGN VLHC (SEQ ID NO: 163)	GTSNPN (SEQ ID NO: 164)	SVGIG (SEQ ID NO: 165)	CAWSSSLASSEYEQYF (SEQ ID NO: 166)	TRAV21, TRAJ35	TRBV30, TRBD2, TRBJ2-7	419-427

FIG. 4

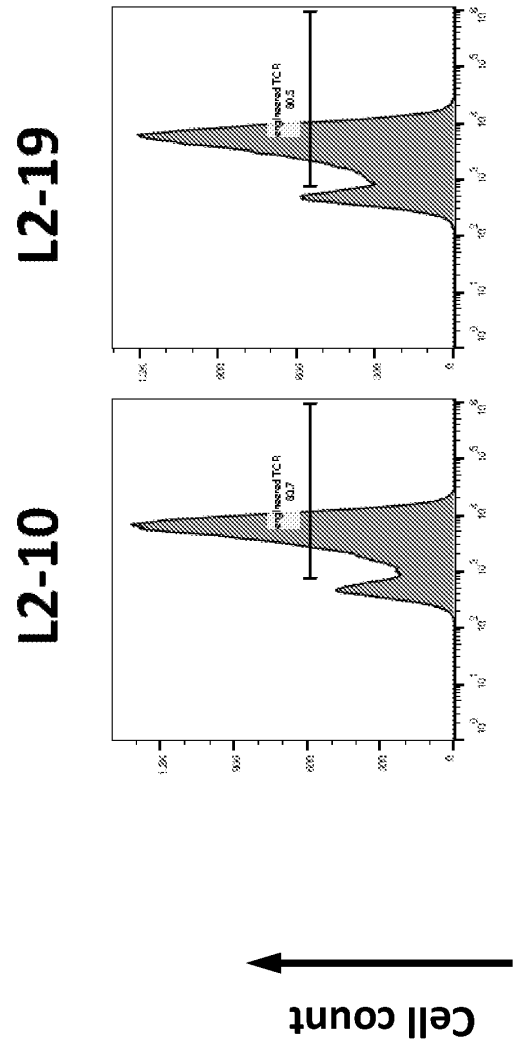
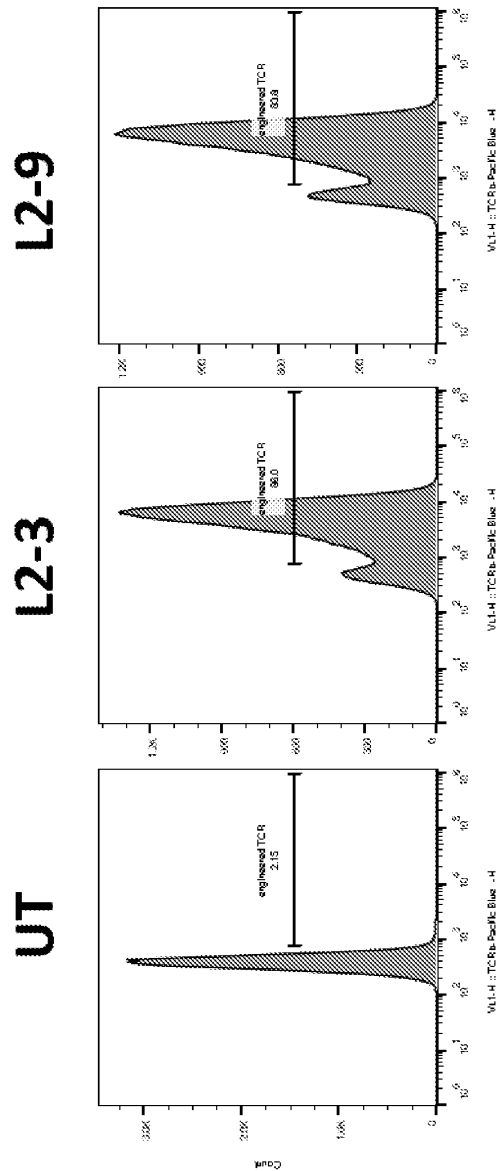
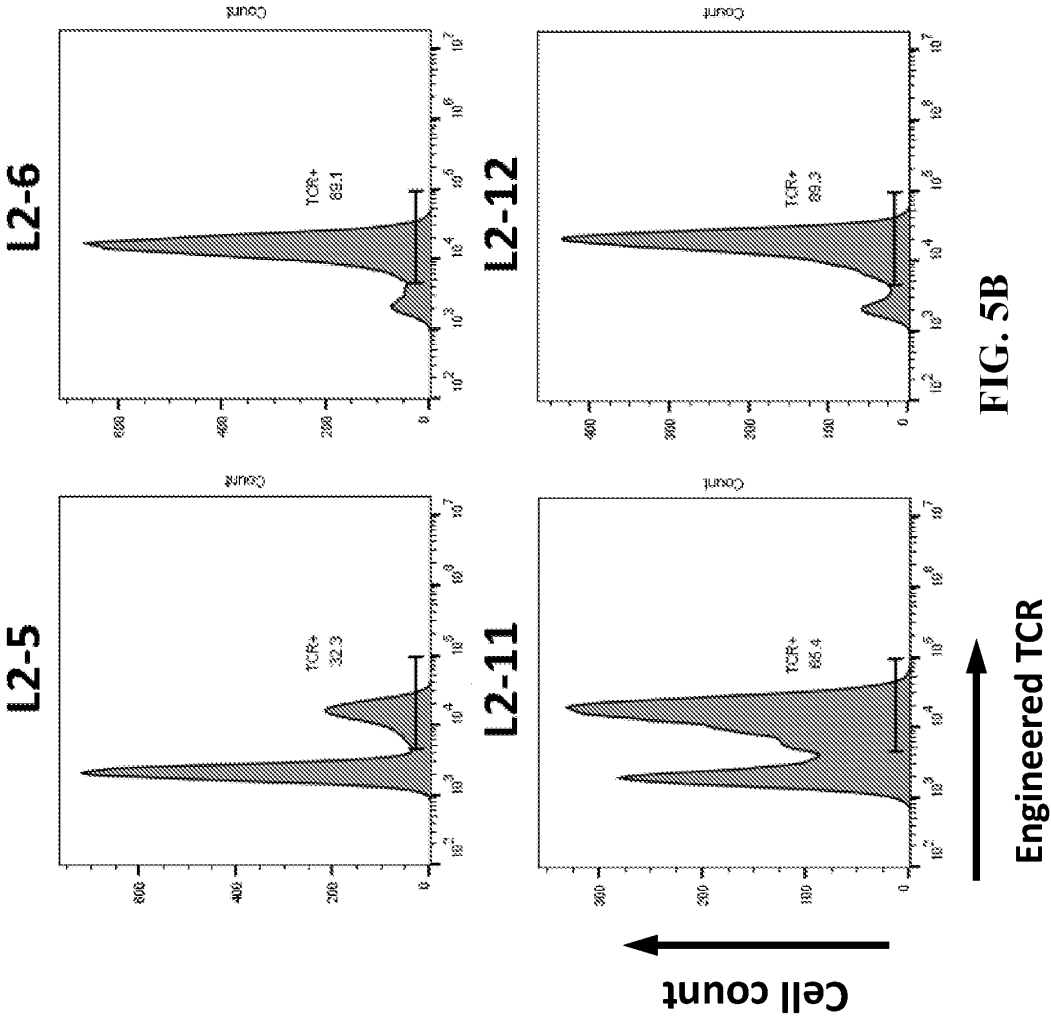
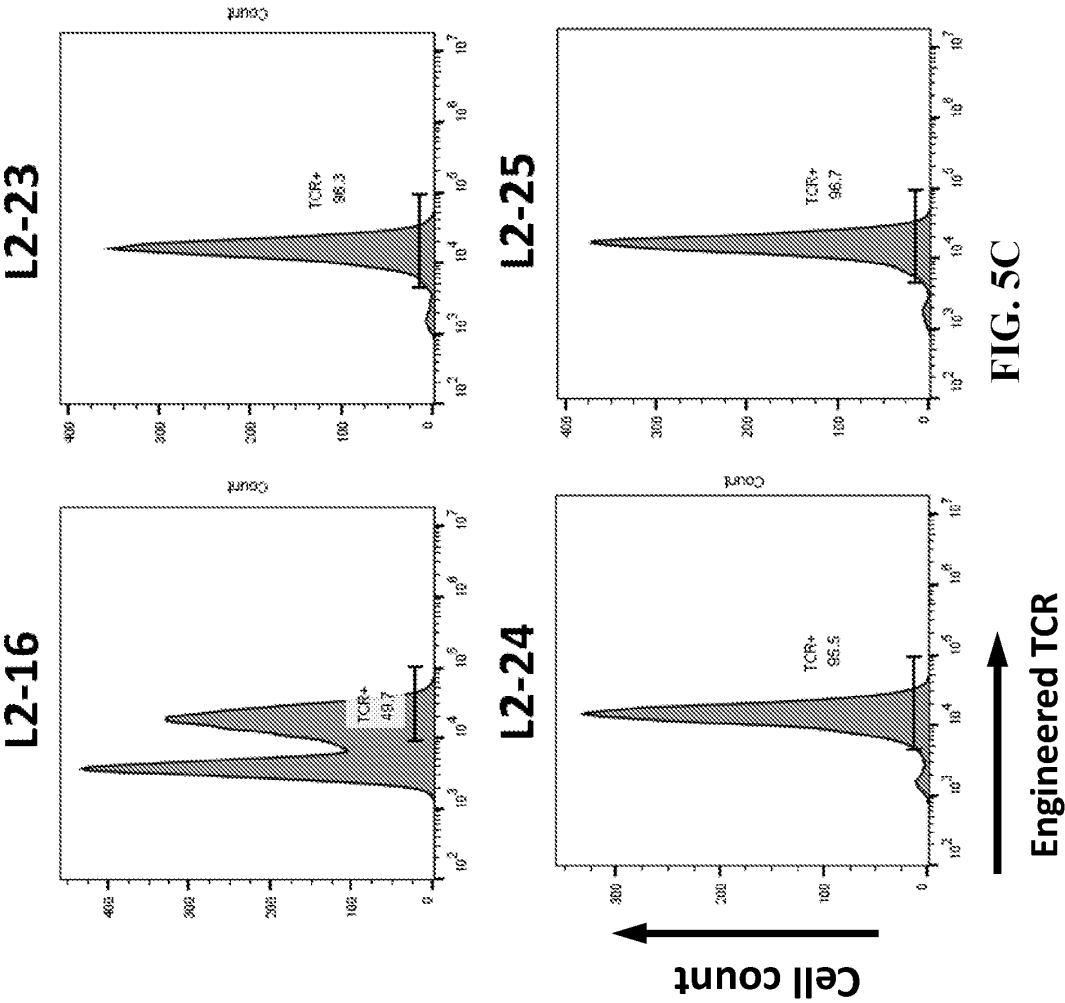


FIG. 5A

Engineered TCR





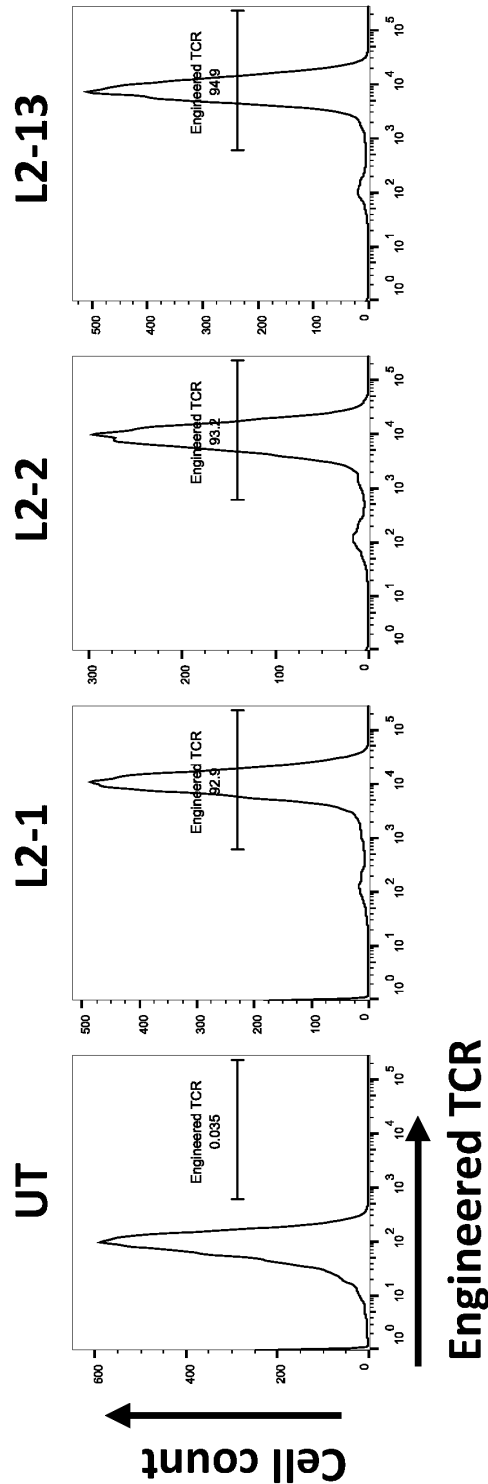


FIG. 5D

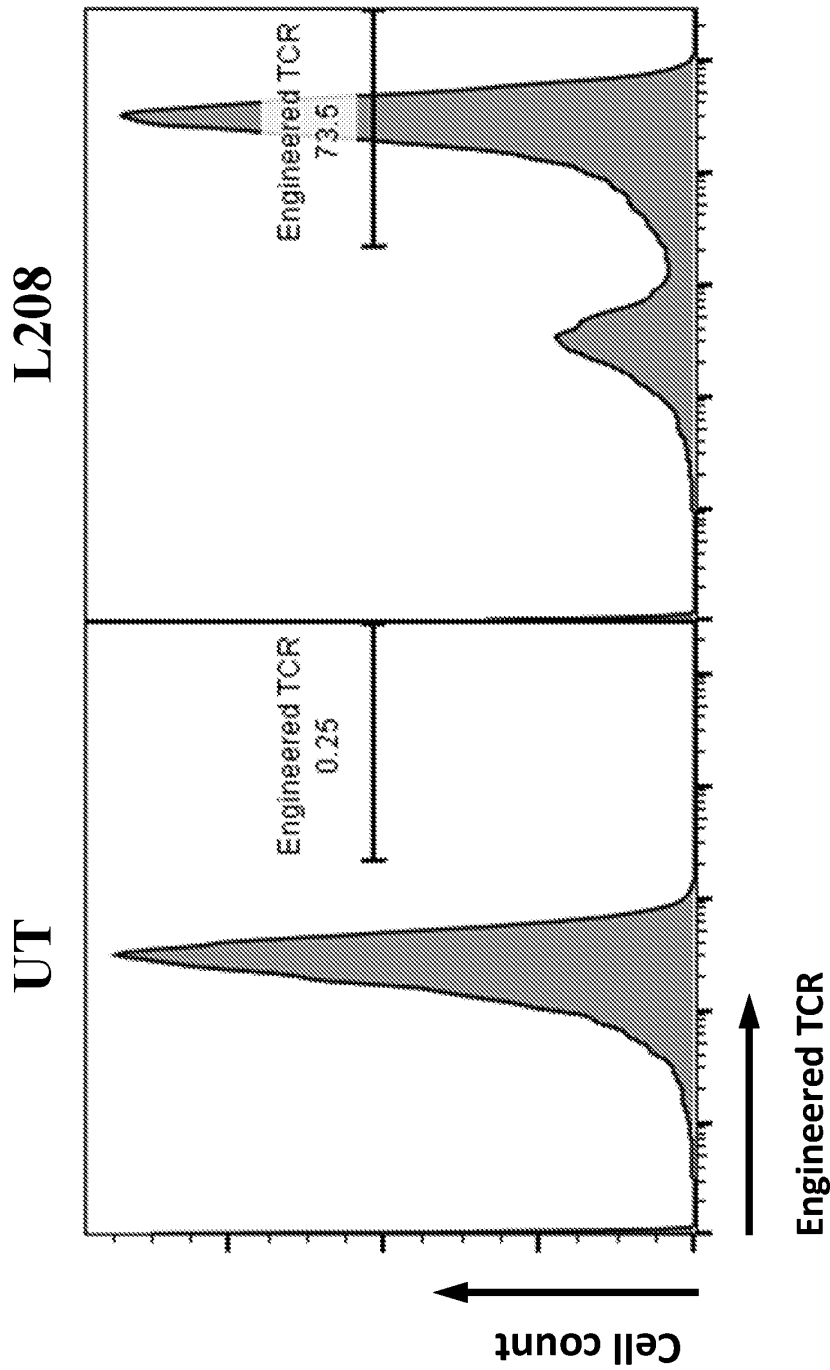


FIG. 5E

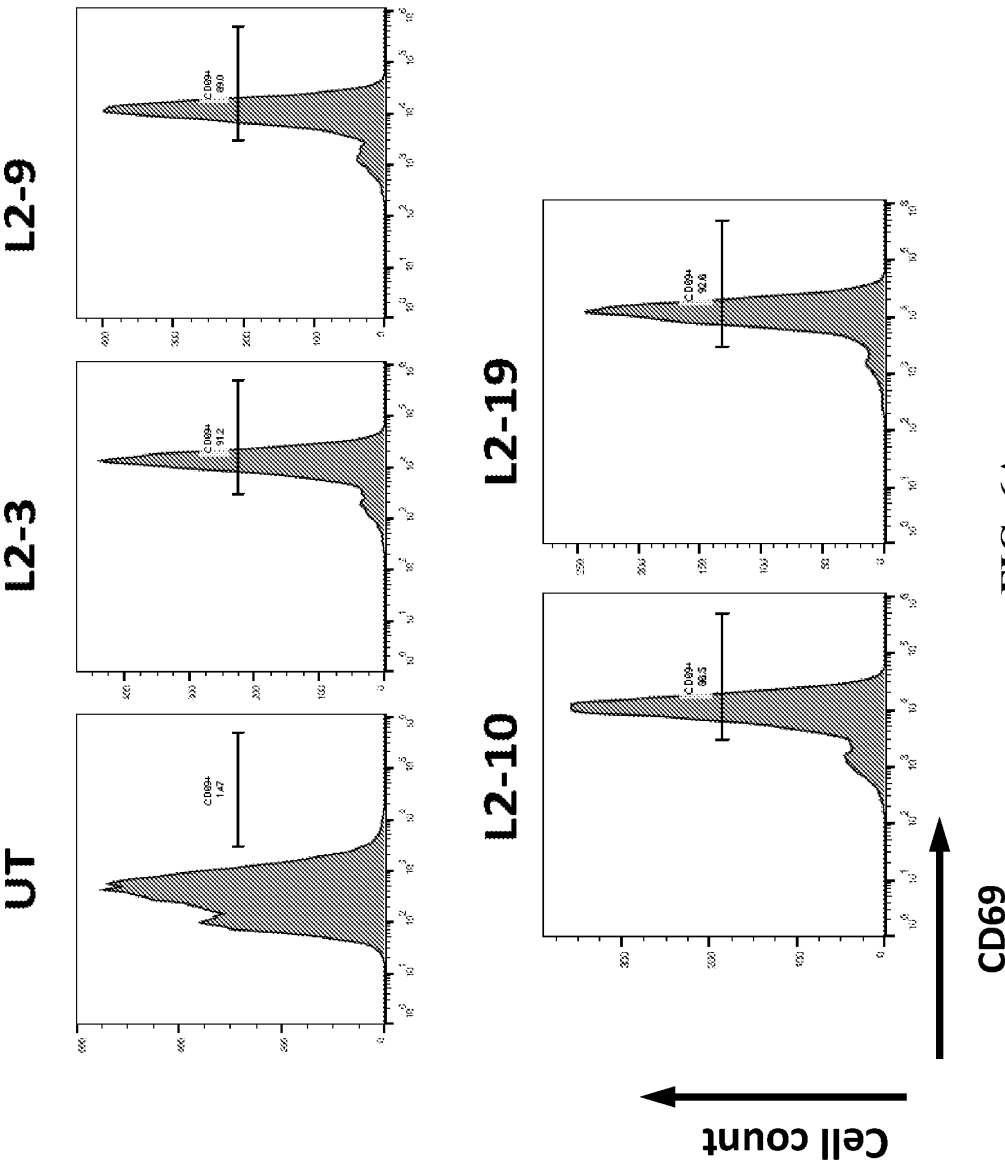


FIG. 6A

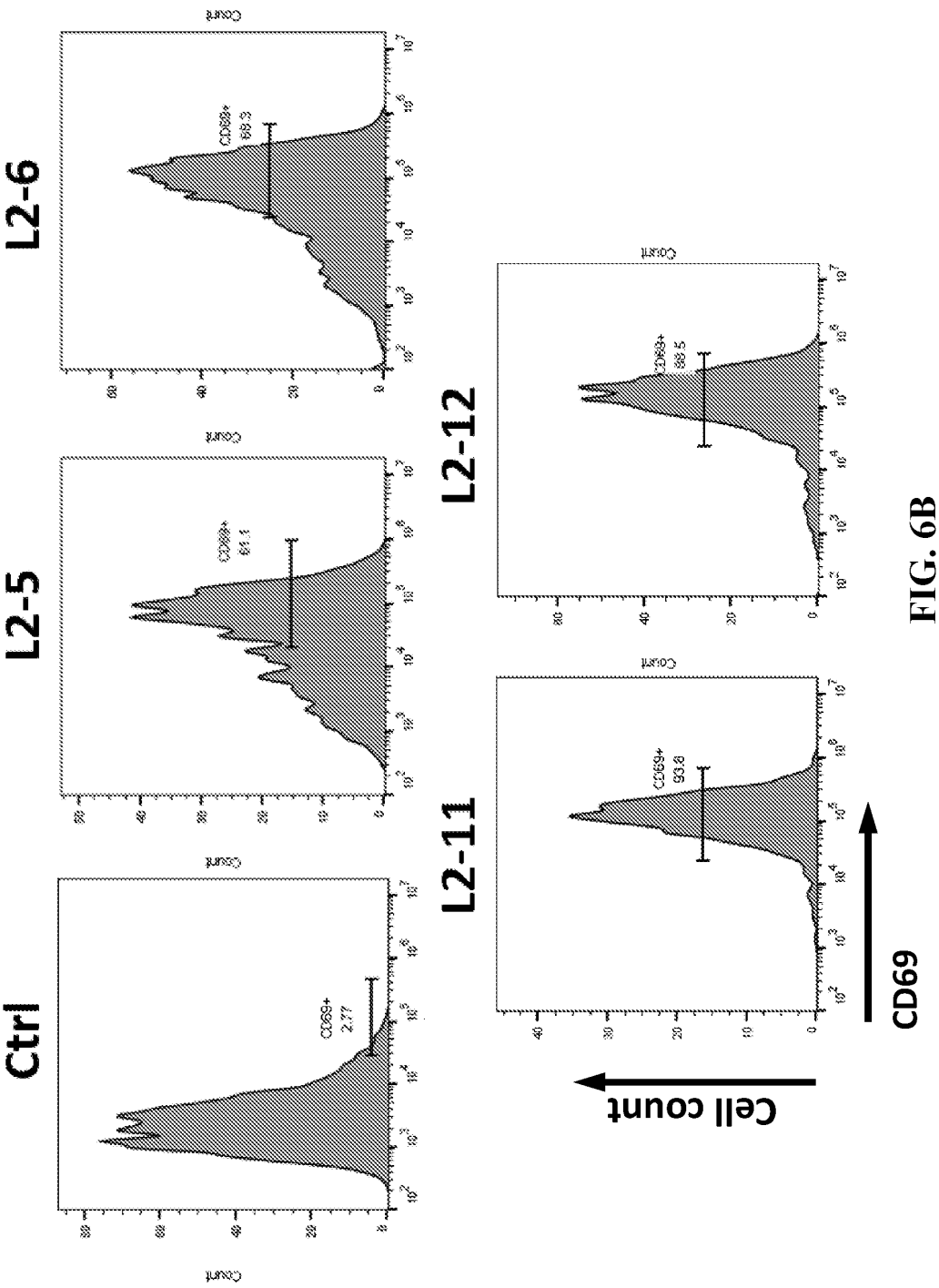
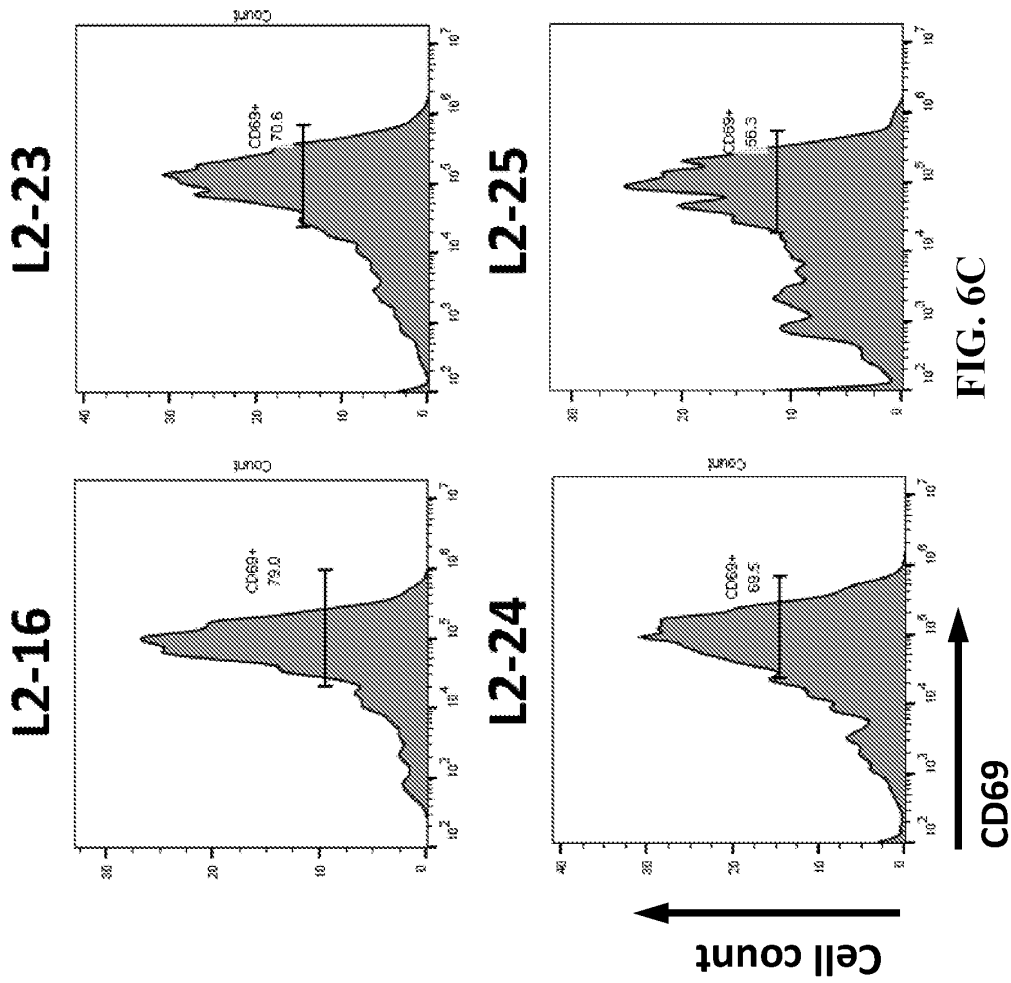


FIG. 6B



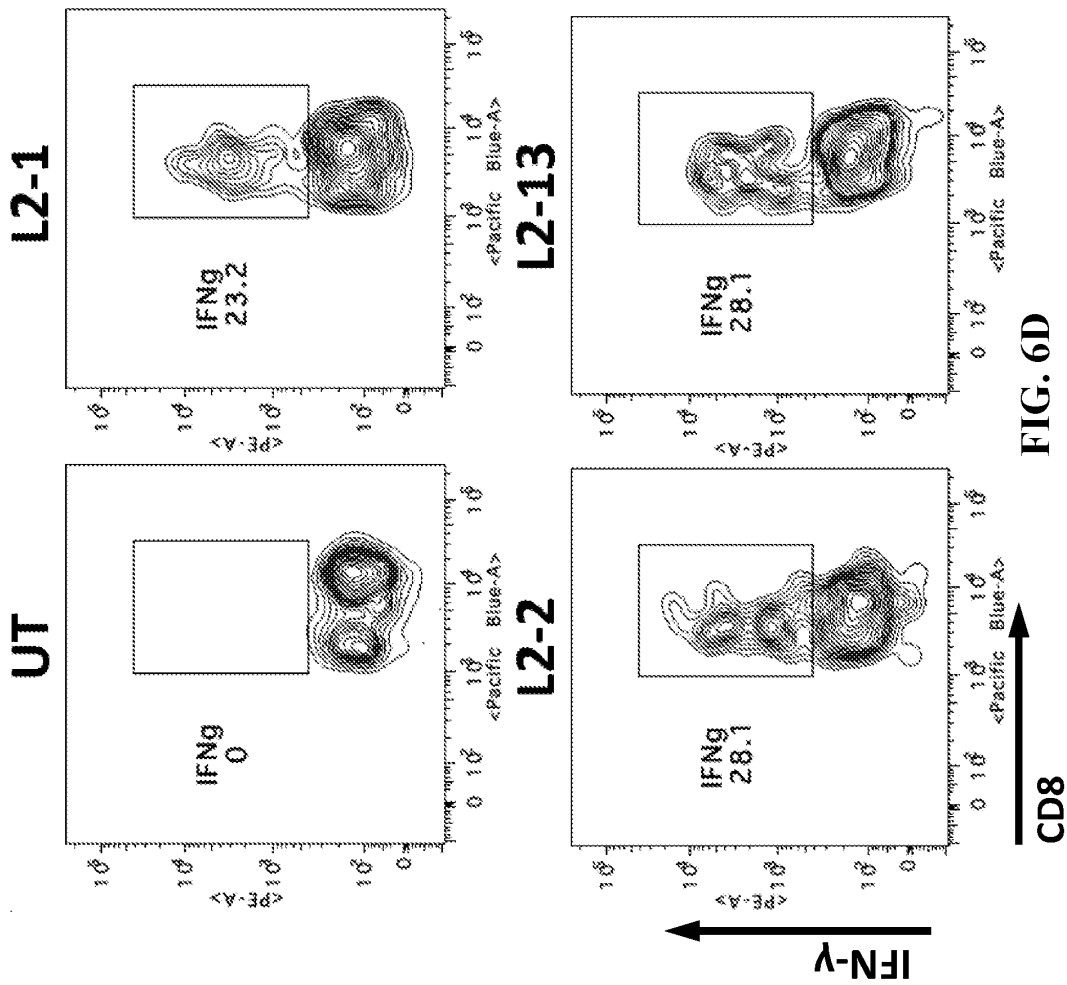


FIG. 6D

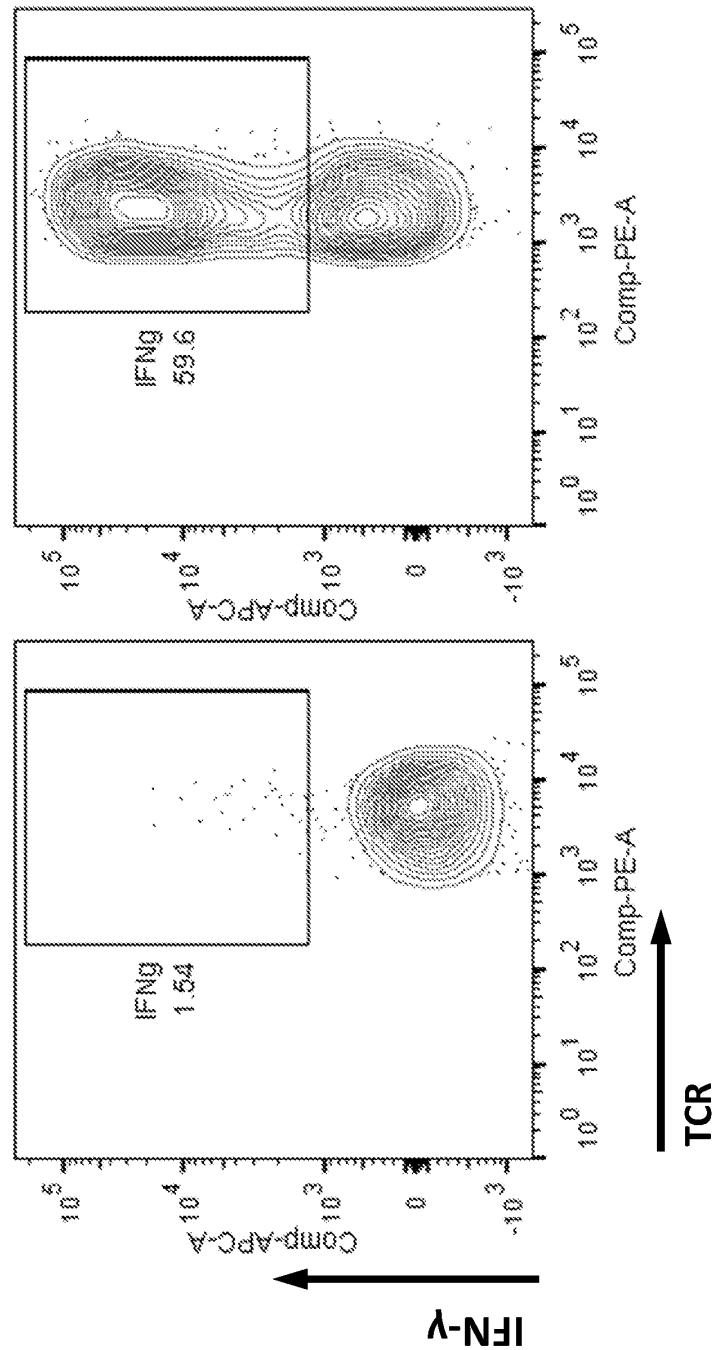


FIG. 6E

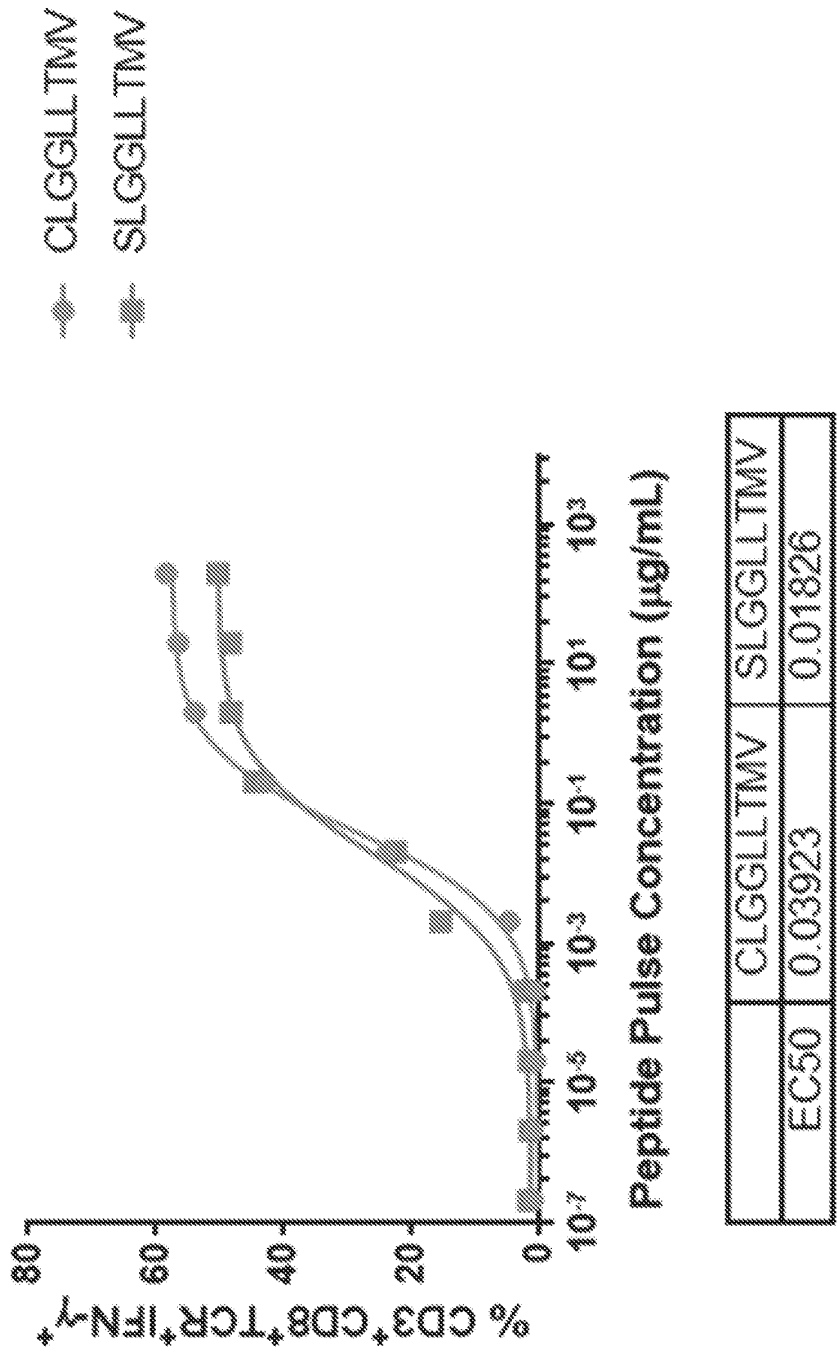


FIG. 6F

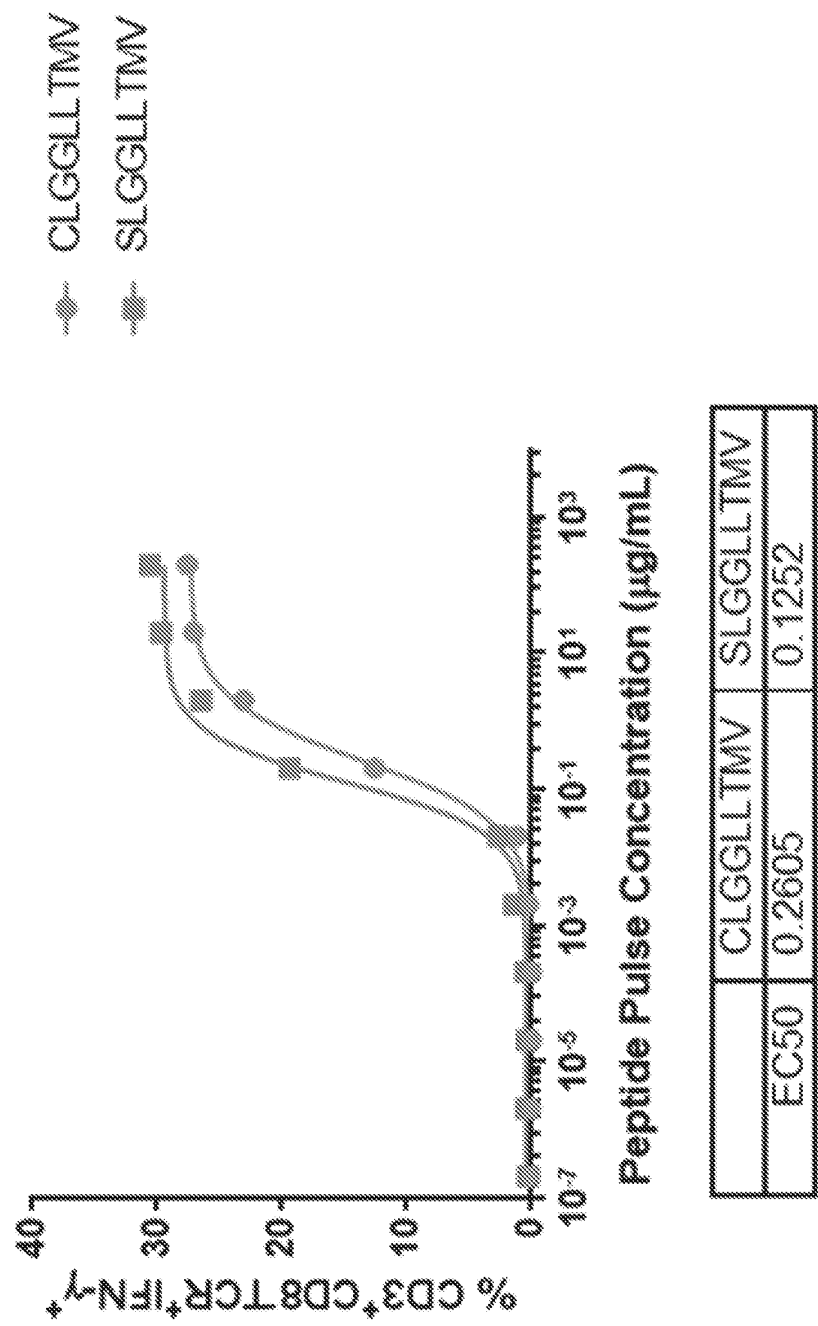


FIG. 6G

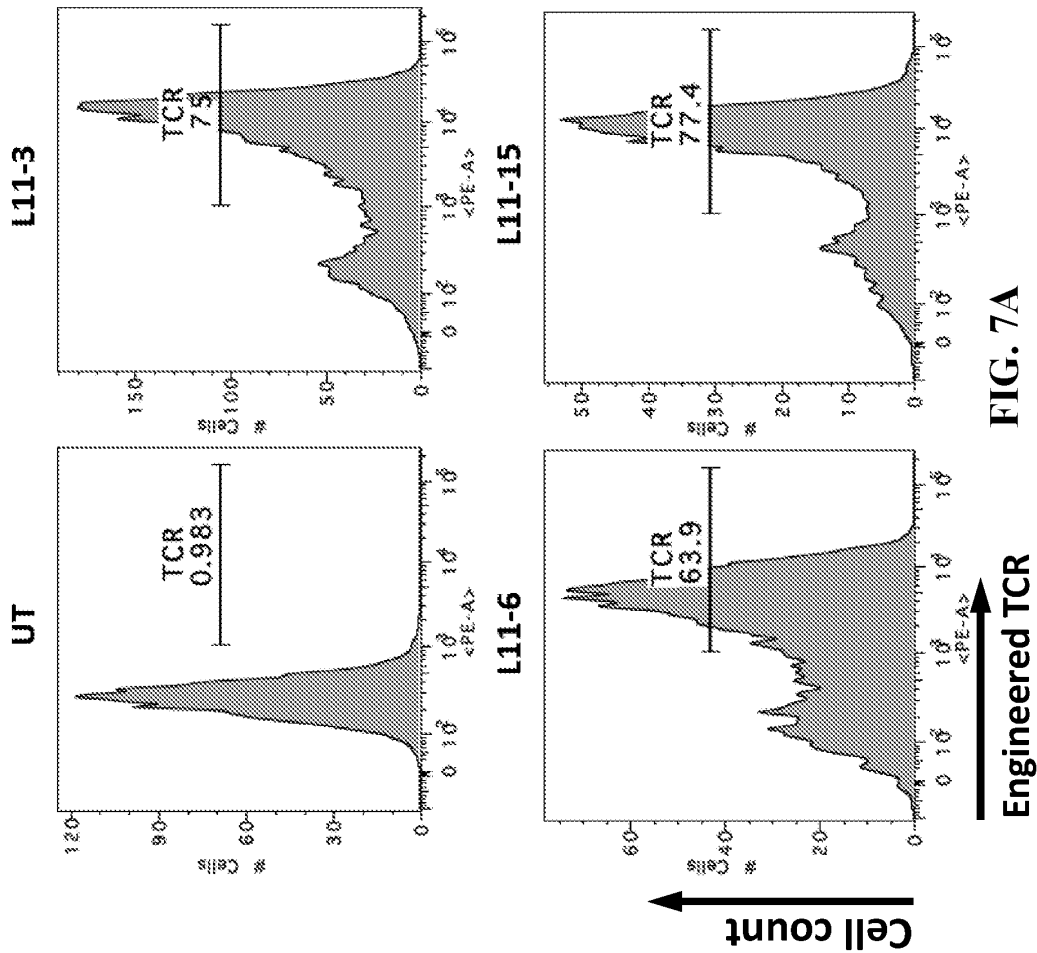


FIG. 7A

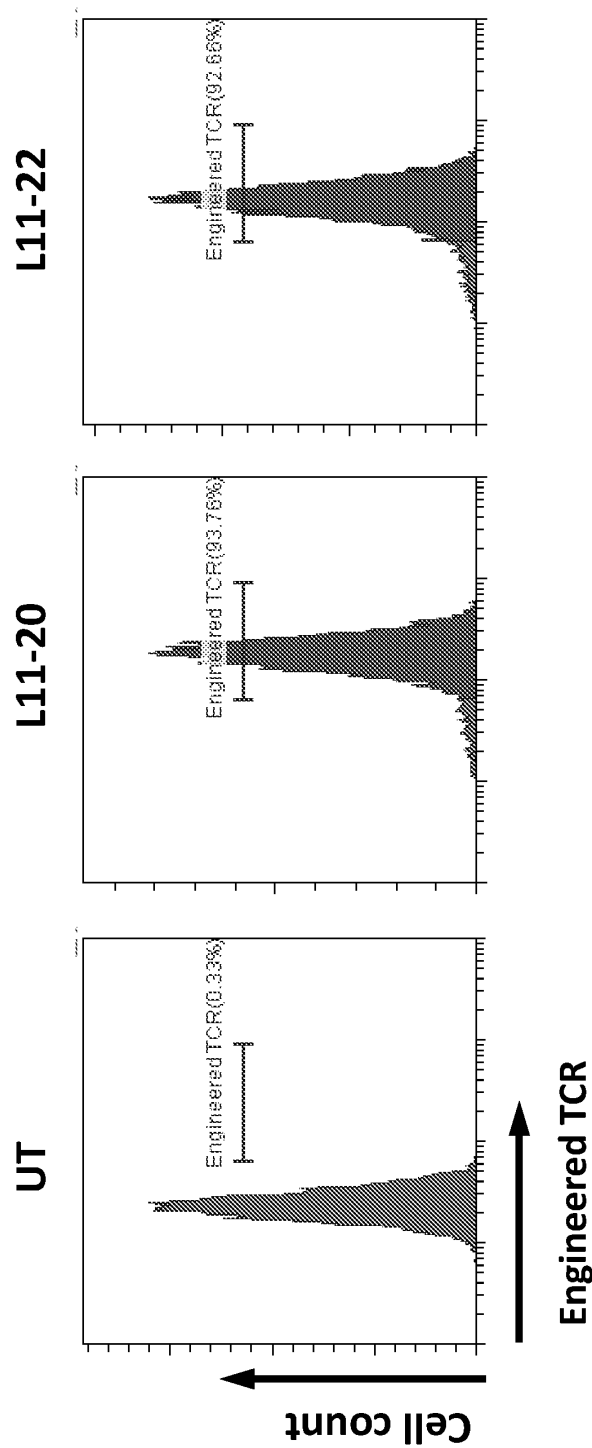


FIG. 7B

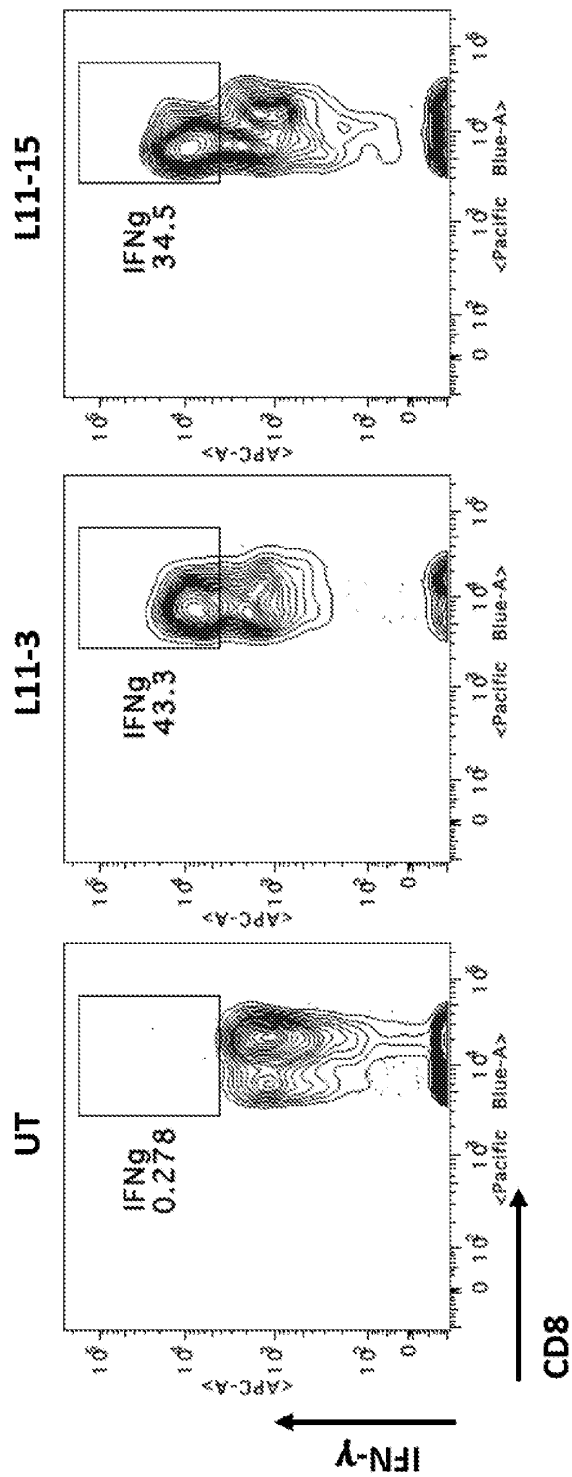


FIG. 8A

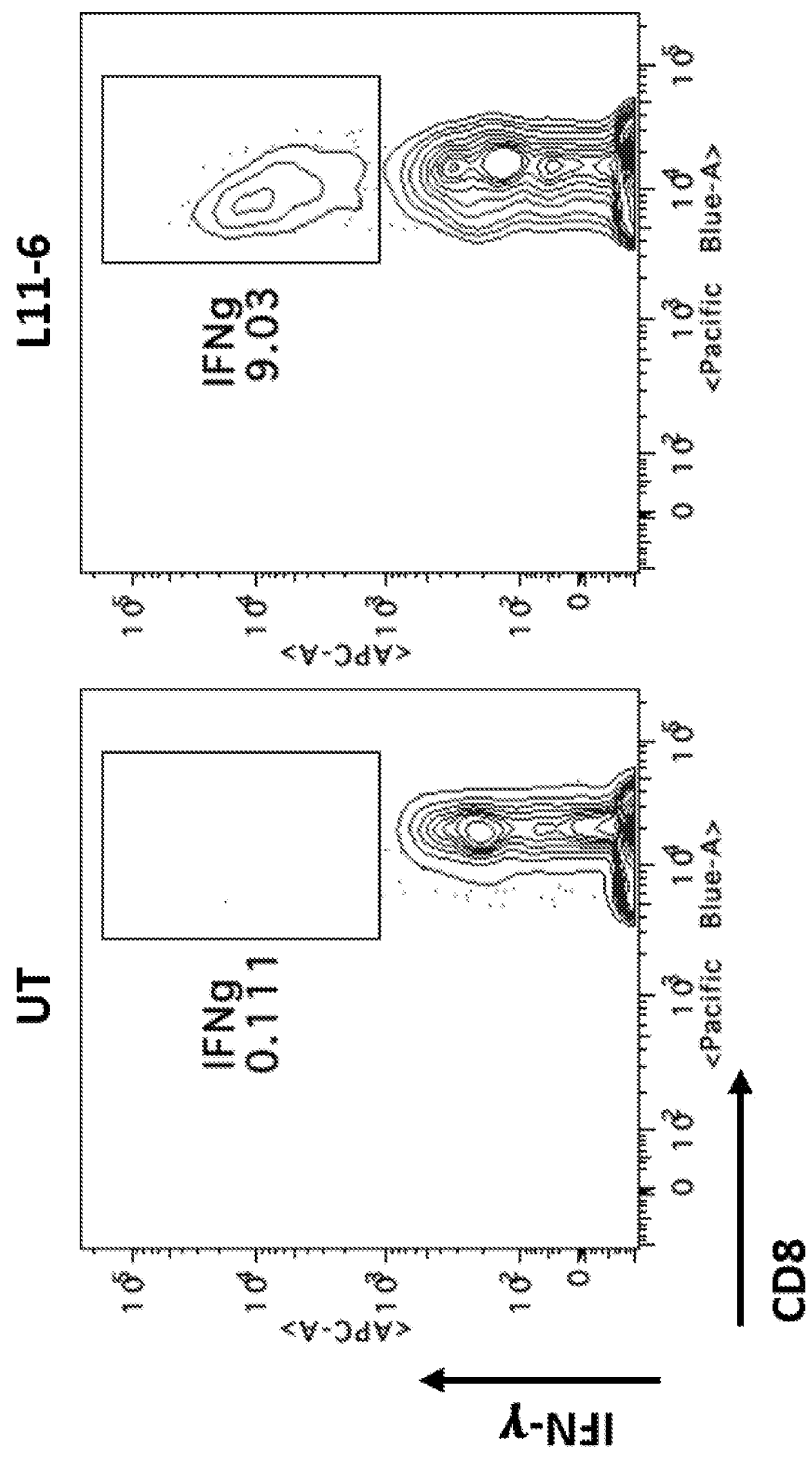


FIG. 8B

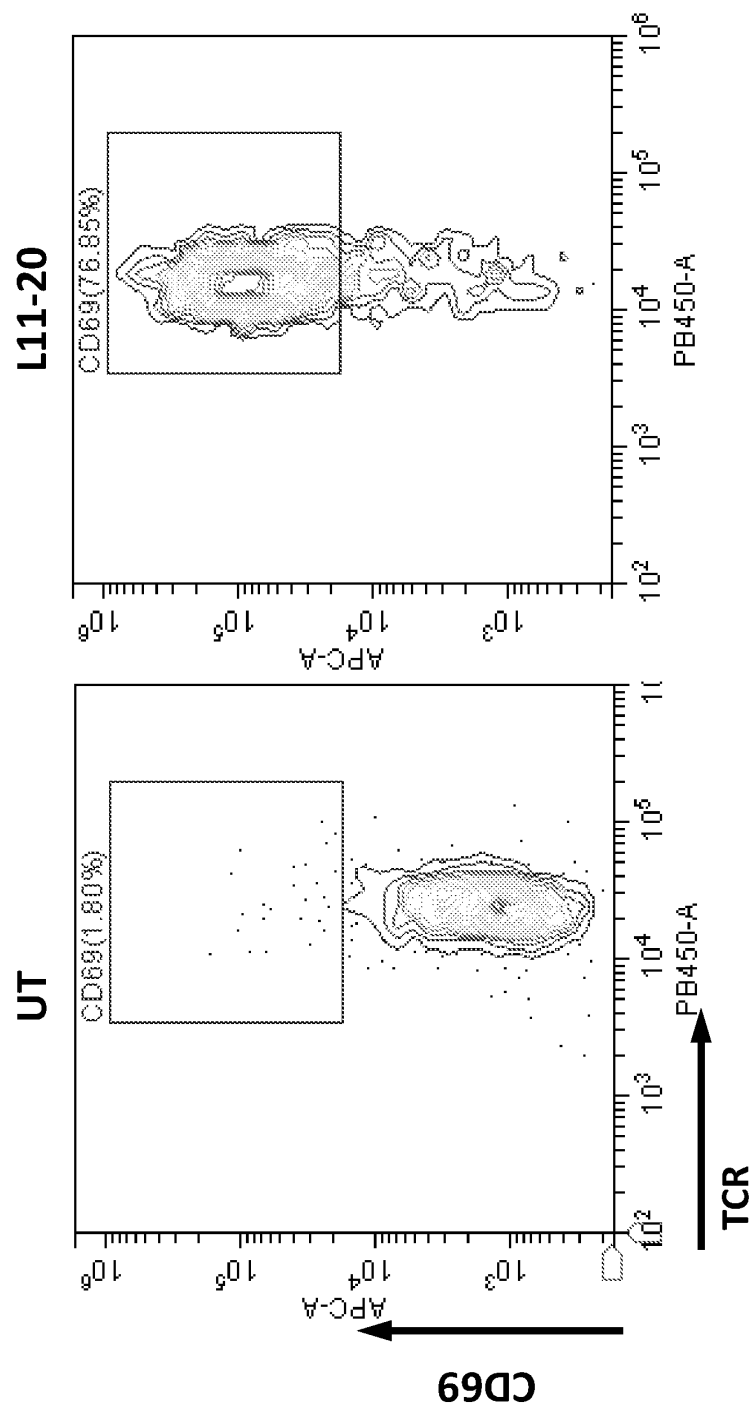


FIG. 8C

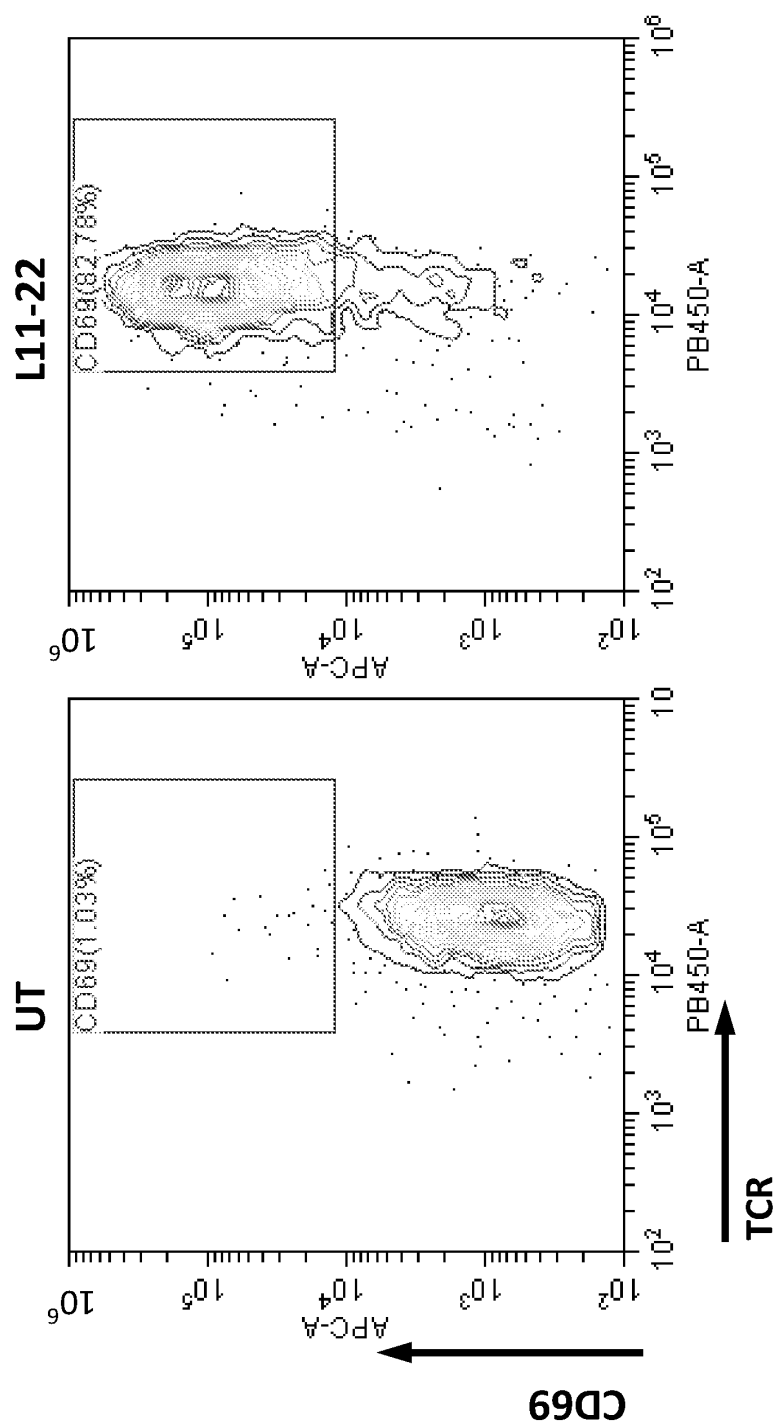


FIG. 8D

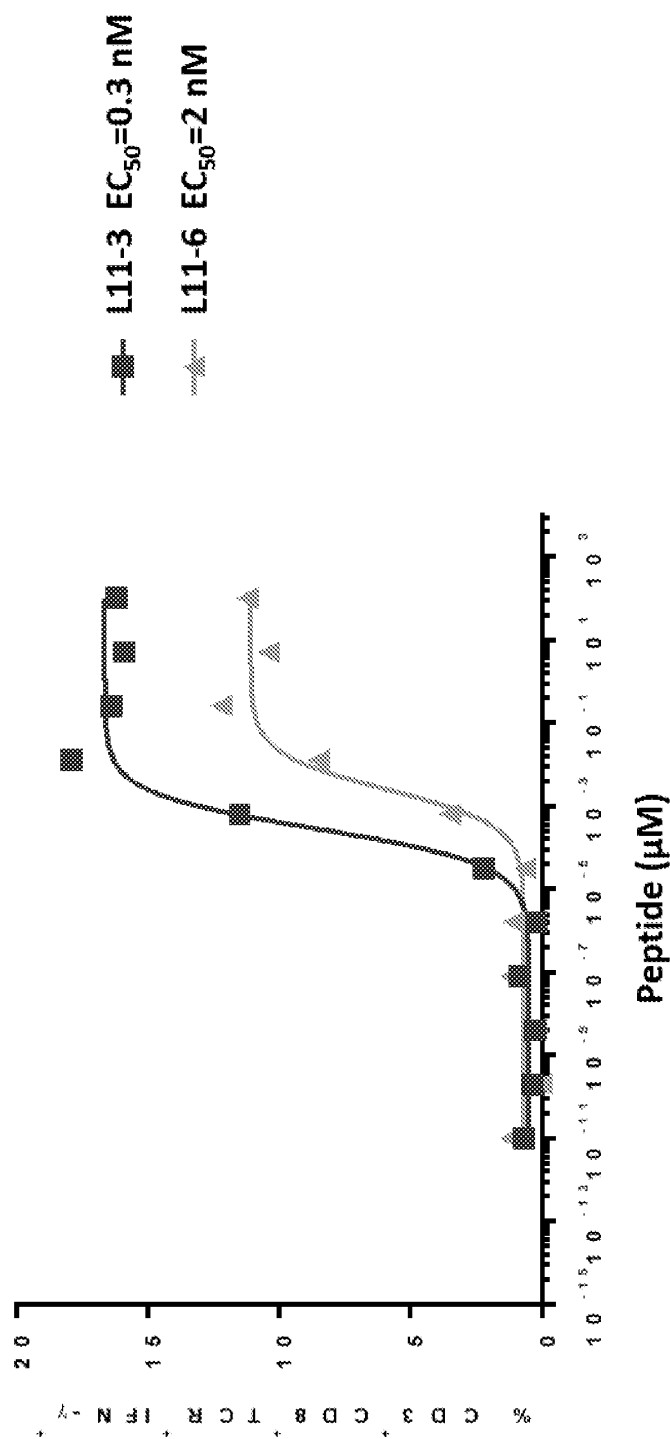


FIG. 9

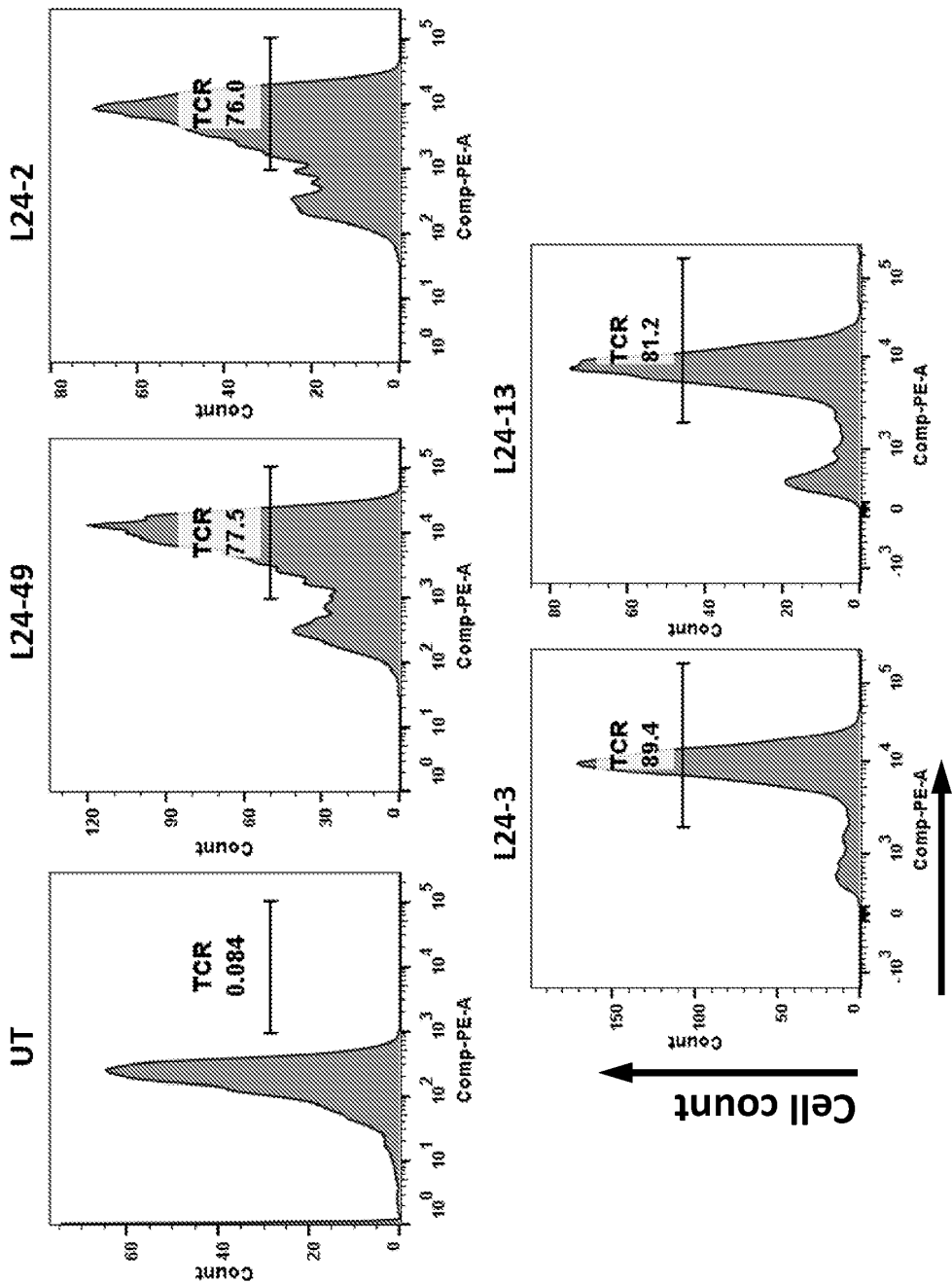


FIG. 10A

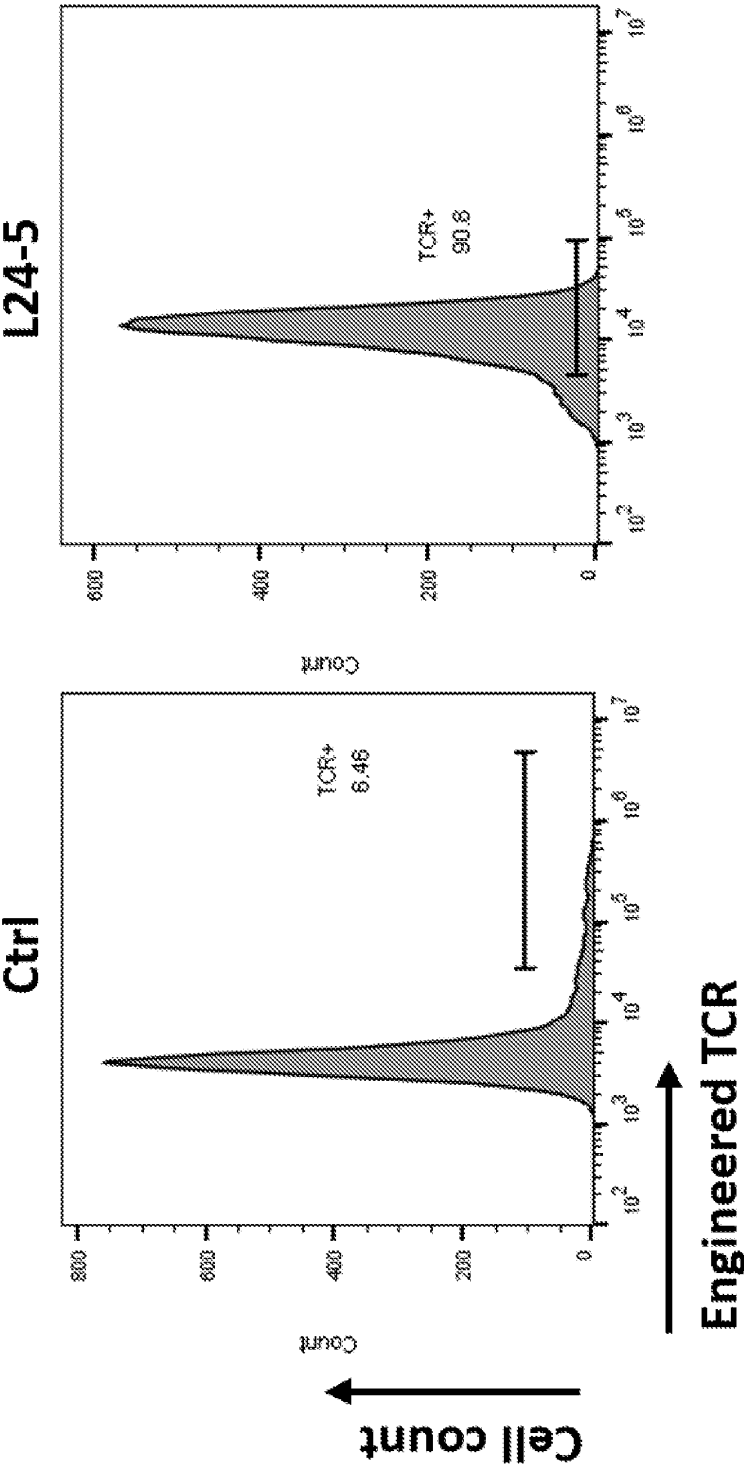


FIG. 10B

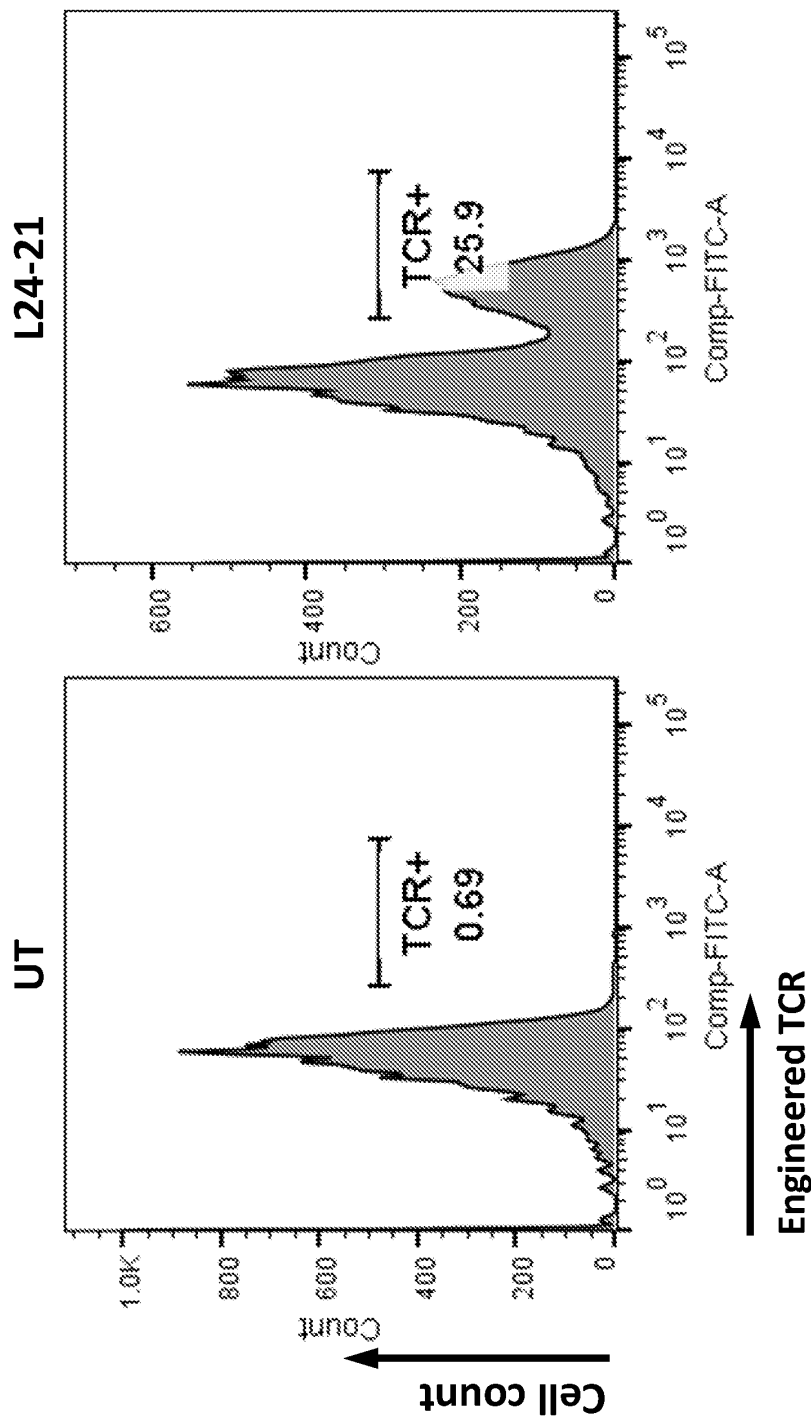


FIG. 10C

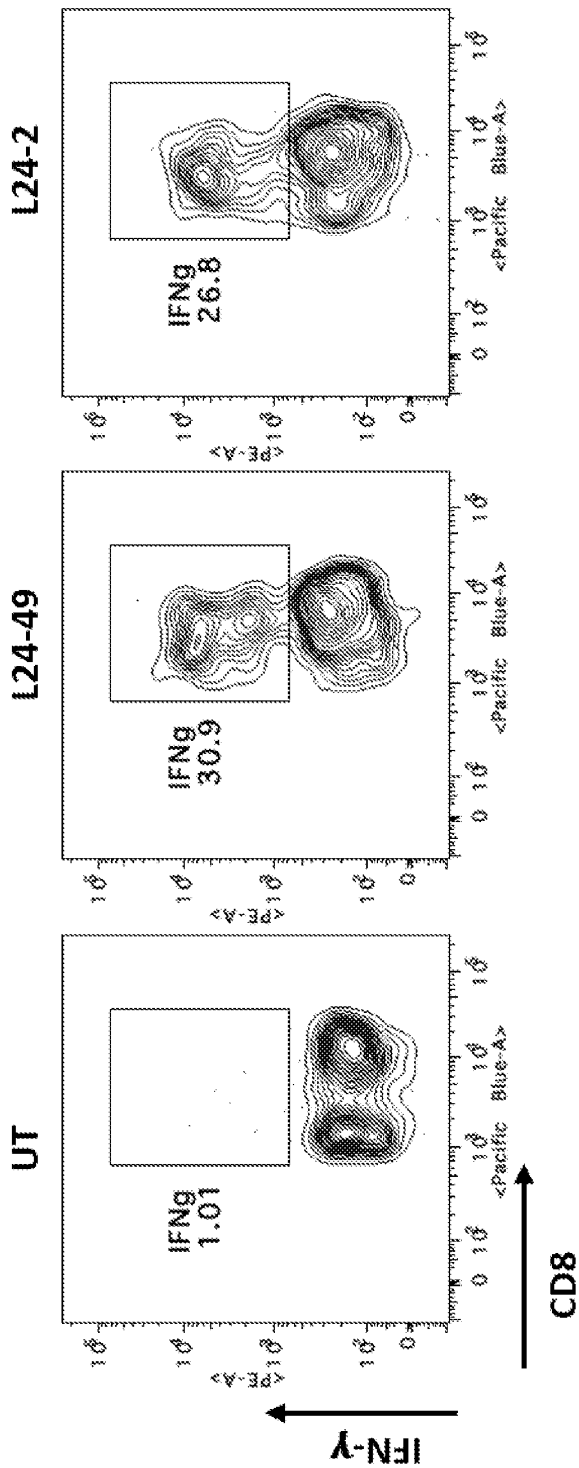


FIG. 11A

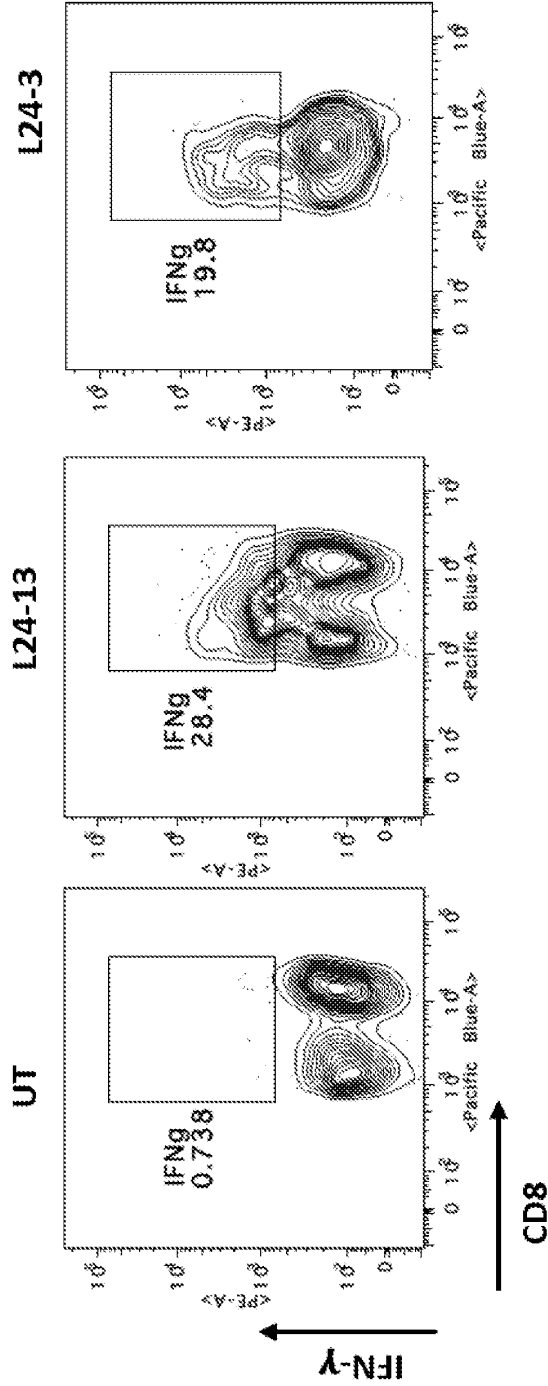


FIG. 11B

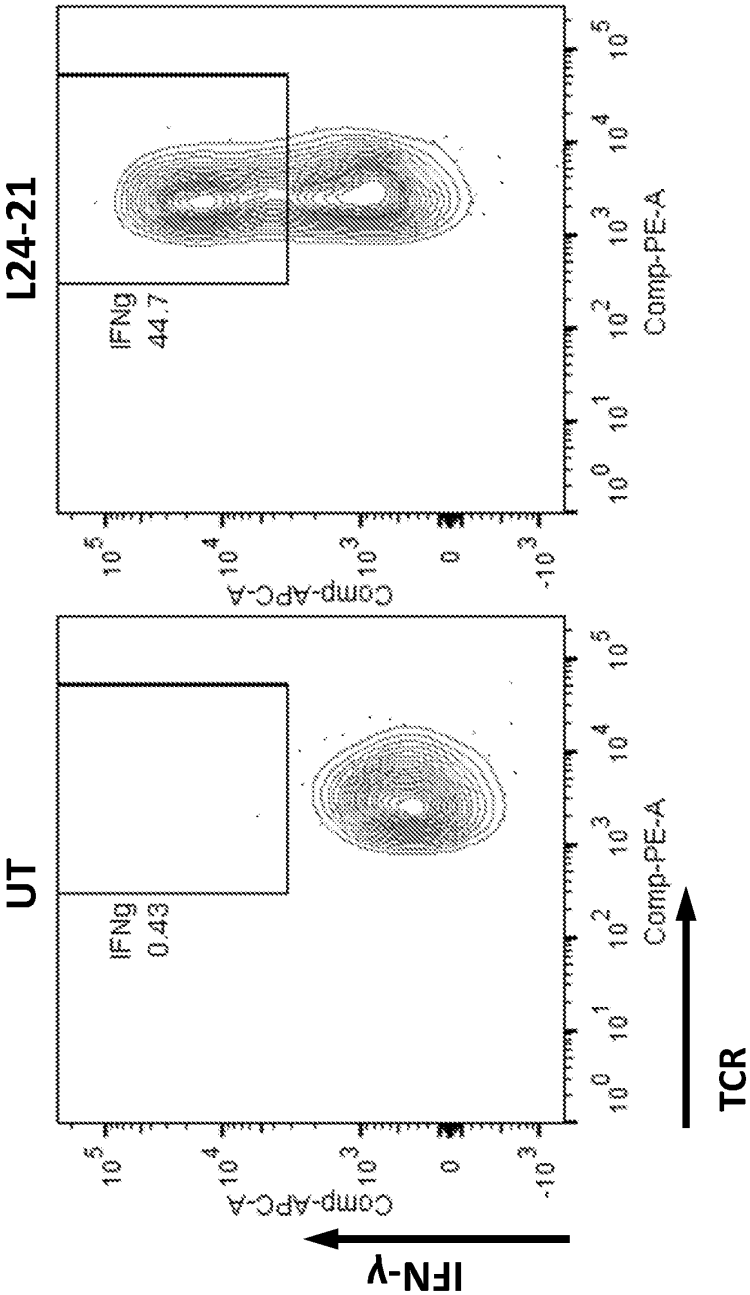


FIG. 11C

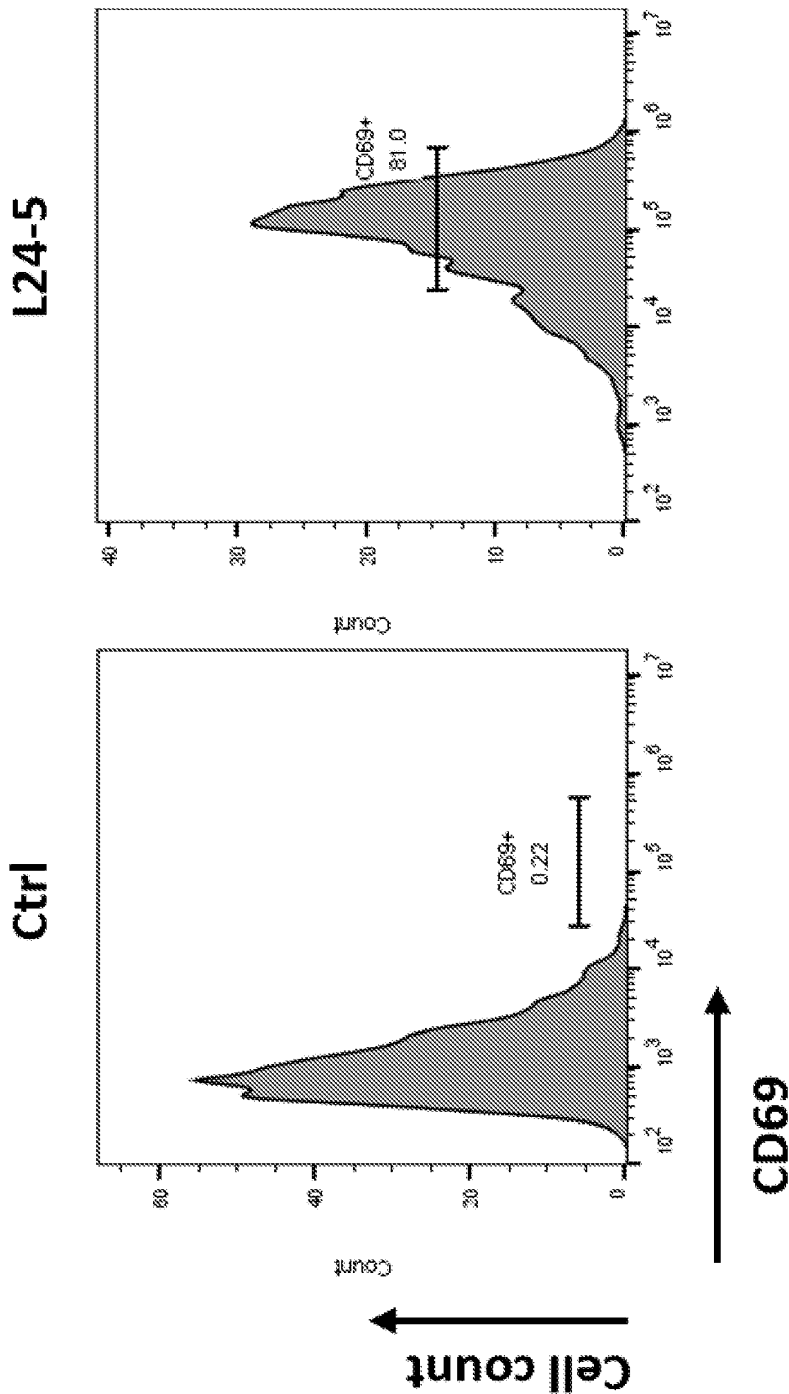


FIG. 11D

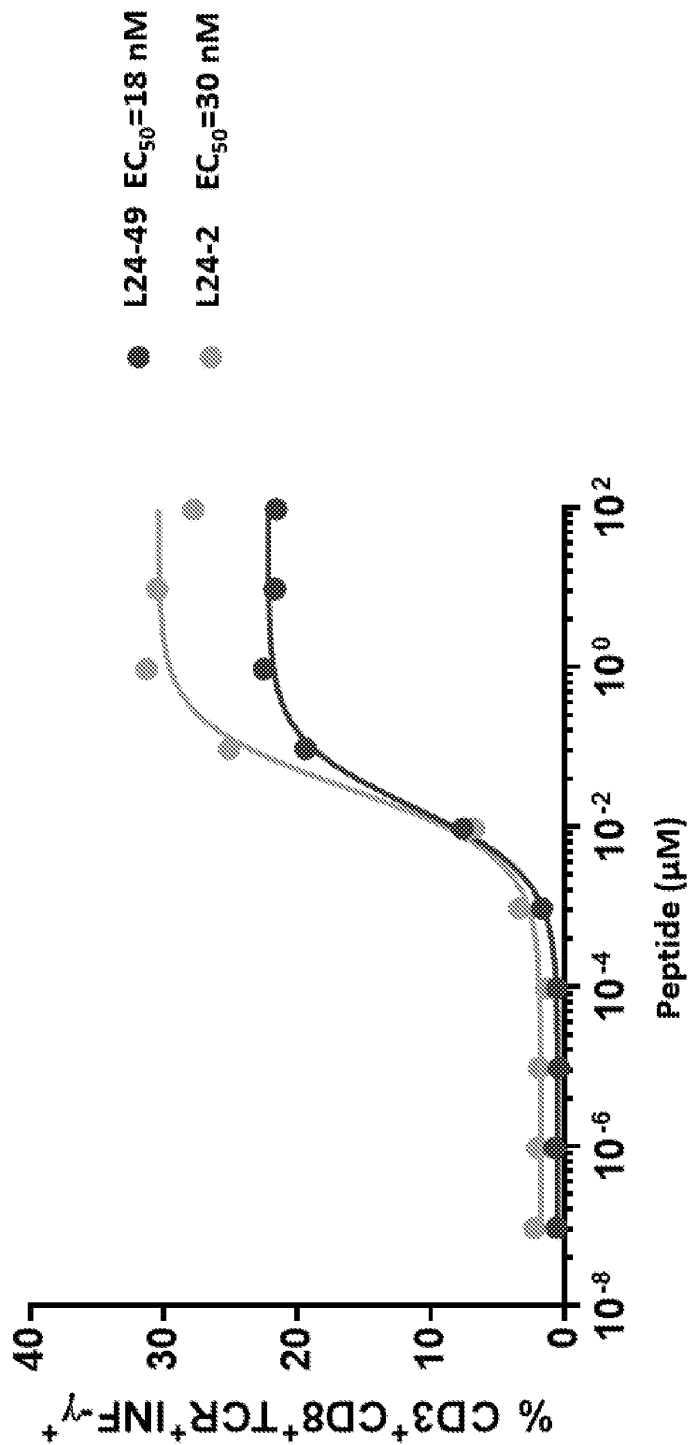


FIG. 12A

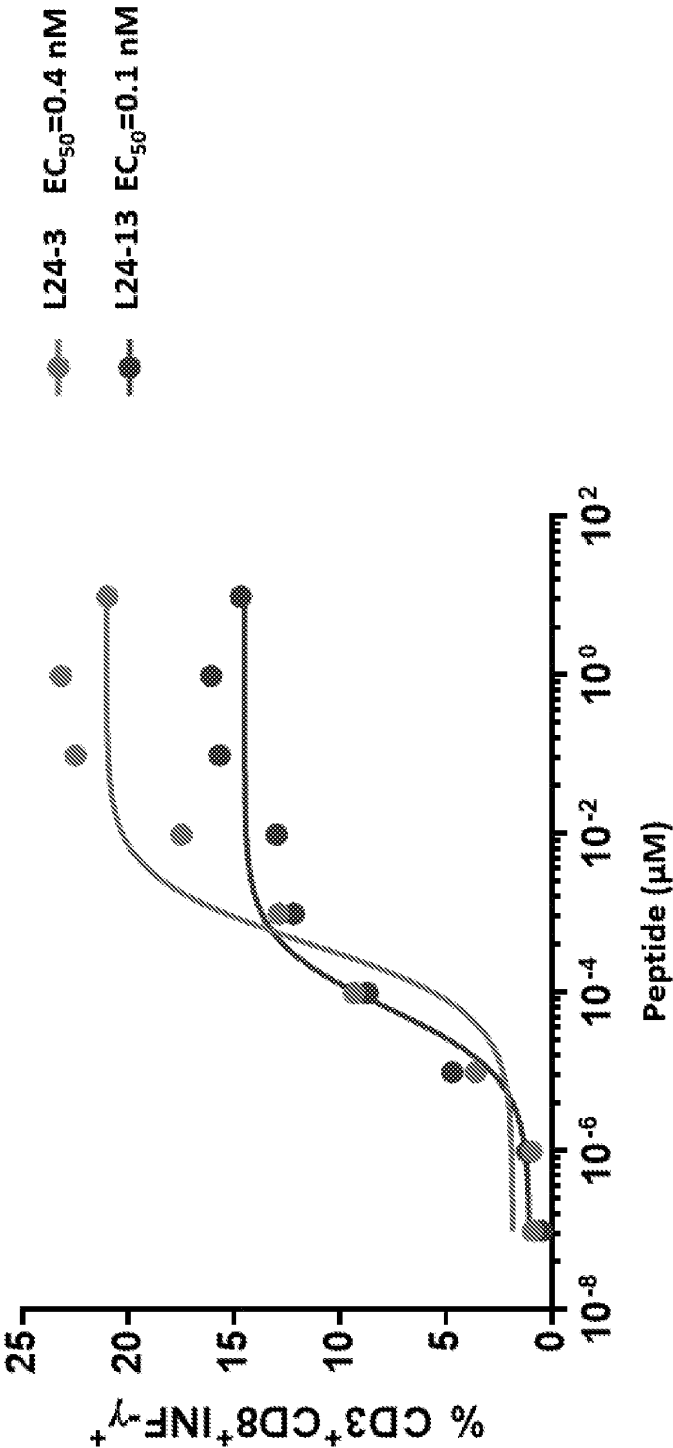


FIG. 12B

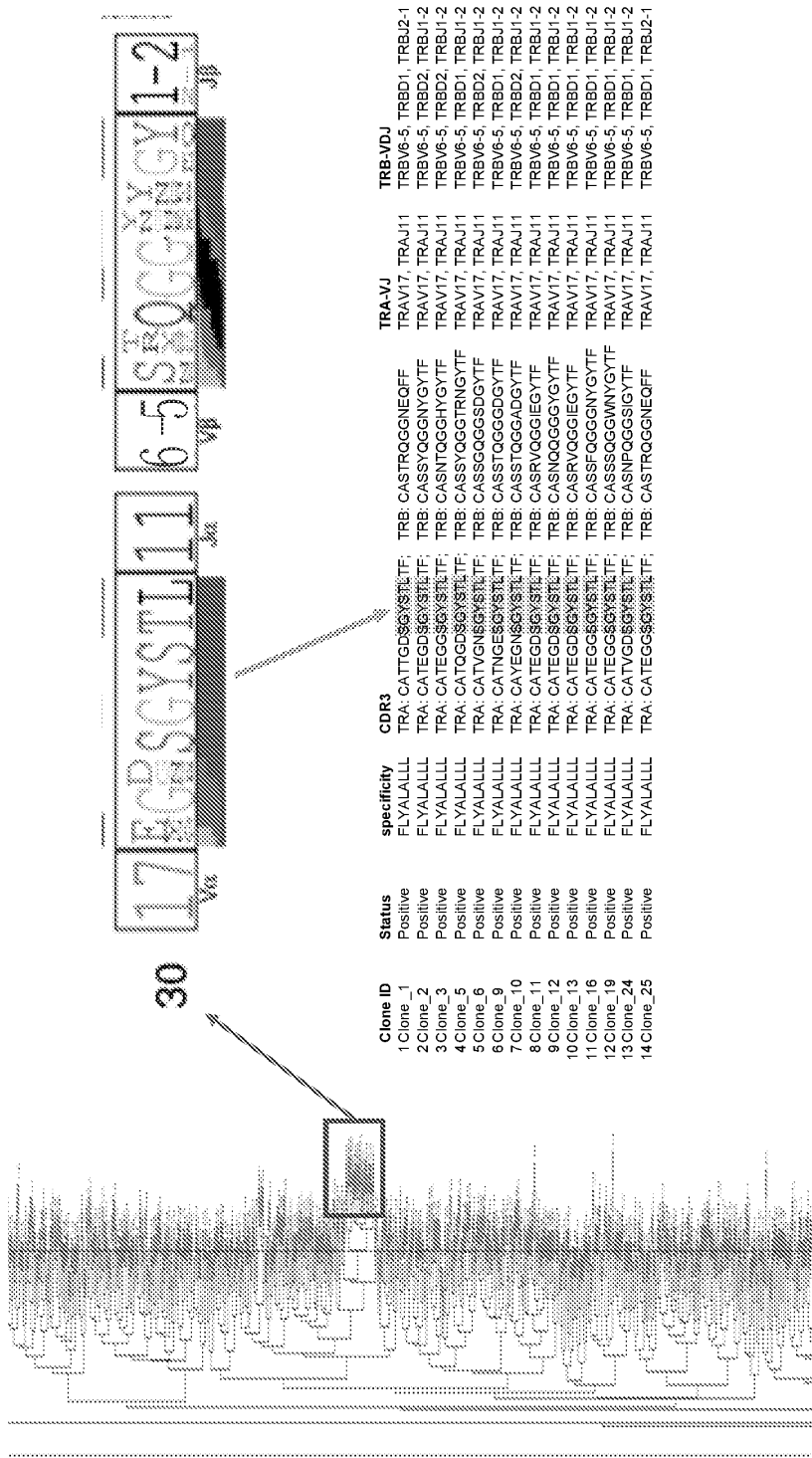


FIG. 13

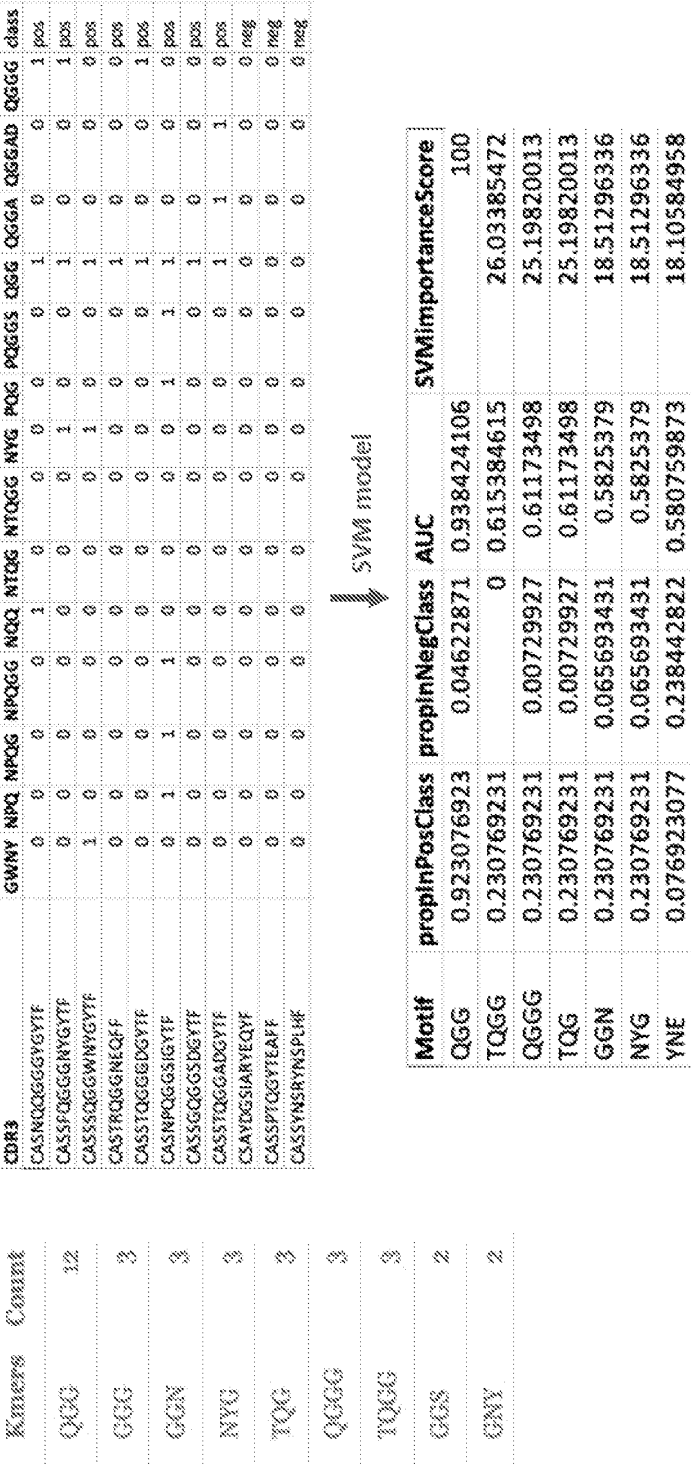
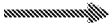


FIG. 14

class/QGG	POS	NEG
1	12	19
0	1	392



Motif	fisher.Pvalue	fisher.adjustPvalue	CramerVimportance
QGG	2.92E-14	4.72E-12	0.580684035
TQGG	2.27E-05	0.001836469	0.474644895
QGGG	0.000429628	0.015656363	0
TQG	0.000429628	0.015656363	0
GGN	0.056439566	0.086664204	0
NYG	0.056439566	0.086664204	0
YNE	0.315315444	0.338285443	0

FIG. 15

Motif	propInPosClass	propInNegClass	AUC	SVMImportanceScore	fisher.Pvalue	fisher.adjustPvalue	CramerVImportance
QGG	0.923	0.046	0.938	100	2.92E-14	4.72E-12	0.581
TQGG	0.231	0	0.615	26.034	2.27E-05	0.002	0.475

FIG. 16A

Motif	propInPosClass	propInNegClass	AUC	SVMImportanceScore	fisher.P	fisher.adjustP	CramerVImportance
YST	0.9	0.04494382	0.92752809	100	1.22E-10	4.38E-09	0.602588239
SGY	0.8	0.108614232	0.845692884	80.62943262	1.83E-06	1.88E-05	0.379113791

FIG. 16B

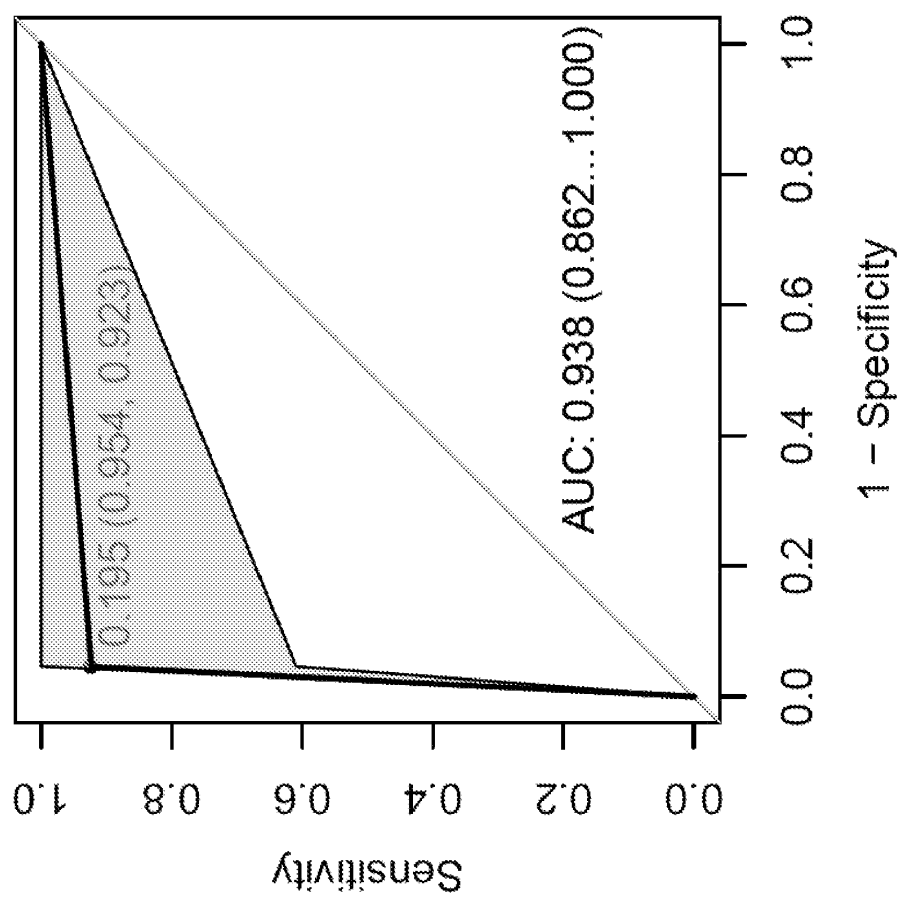


FIG. 17A

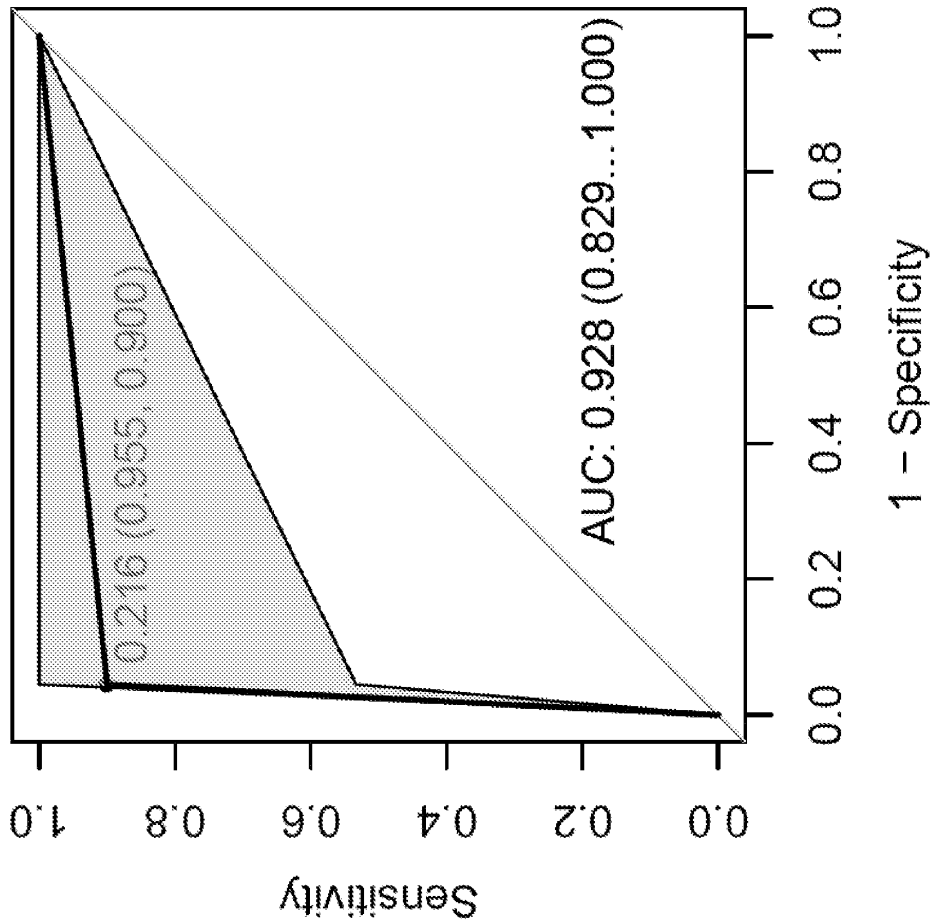


FIG. 17B

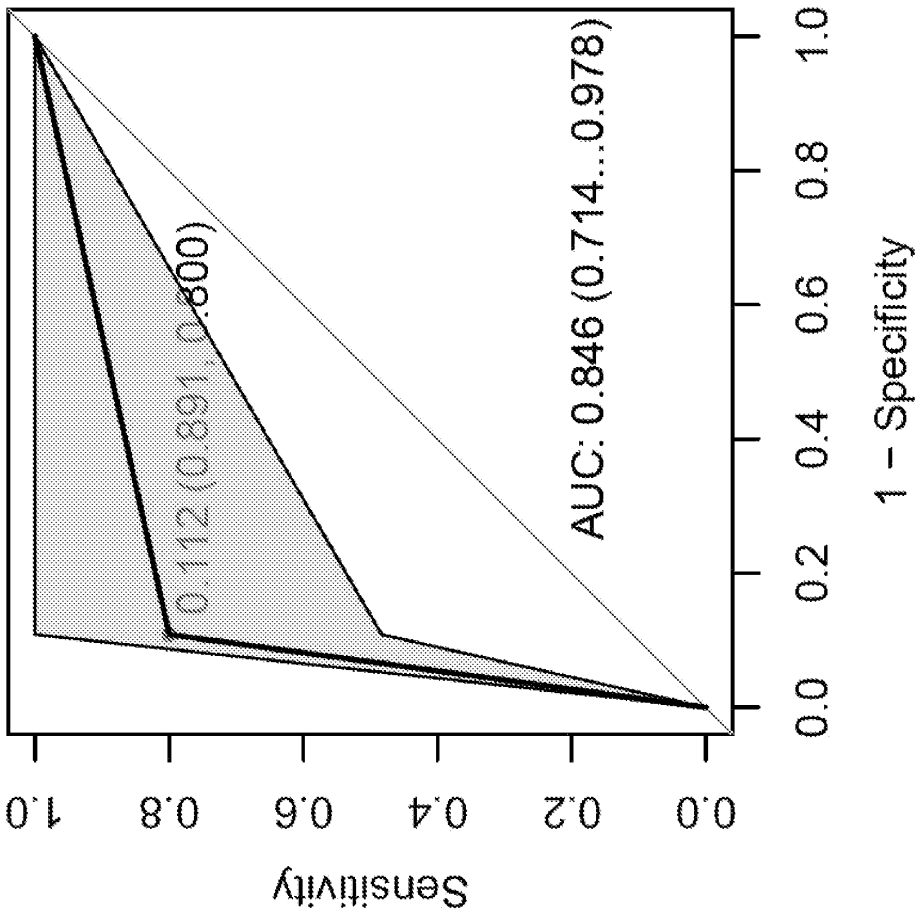


FIG. 17C

FIG. 18

EBV LMP2 peptide (amino acid 356-364 of LMP2) (SEQ ID NO: 139)
FLYALALL

EBV LMP2 peptide (amino acid 340-349 of LMP2) (SEQ ID NO: 140)
SSSSCPLSK

EBV LMP2 peptide (amino acid 222-230 of LMP2) (SEQ ID NO: 141)
IYVLVMLVL

EBV LMP2 peptide (amino acid 419-427 of LMP2) (SEQ ID NO: 142)
TYGPFVMCL

EBV LMP2 peptide (amino acid 426-434 of LMP2) (SEQ ID NO: 167)
CLGGLTMV

EBV LMP2 peptide (amino acid 426-434 of LMP2 with C426S mutation) (SEQ ID NO: 168)
SLGGLTMV

Amino acid sequence of full-length EBV LMP2 protein (SEQ ID NO: 169)
MGSLEMPMGAGPPSPGGPDGYDGNNSQYPSASGSSGNTPTPPNDEERESNEEPPPPY
EDPYWNGDRHSDYQPLGTQDQSLYLGLQHDGNDGLPPPPYSPRDDSSQHIYEEAGRGS
NPVCLPVIIVAPYLFWLAIAASCFTASVSTVVTATGLALSLLLLAAVASSYAAAQRKLLT
PVTVLTAVVTFFAICLTWRIEDPPFNLSLLFALLAAAGGLQGIYVLVMLVLLILAYRRWR
RLTVCGGIMFLACVLVLIQSLPLGAVTVVSMVTLVLLAFVWLSPPGGLGTLGAA
LLTLAAALALLASLILGTNLTTMFLMLLWTLVLLICSSCSCPLSKILLARLFYAL
ALLLILASALLAGSILQTNFKSLSTEFIPNLFMCLLLIVAGILFILALTWEGSGNRTY
GPVFMCLGGLTMVAGAVWLTVMSTLLSAWILTAGFLIFLIGFALFGVIRCCRYCCYYC
LTLESEERPPTPYRNTV

Amino acid sequence of variable alpha (Va) region of L2-1 TCR (SEQ ID NO: 170)

METLLGVSLVILWLQARVNSQQGEEDPQALSIOEGENATMNCsYKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
KSSLLITASRAADTASYFCATTGDSGYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-1 TCR (SEQ ID NO: 171)
MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
TEDFFPLRLLSAAPSQTSVYFCASTRQGGNEQFFGPGTRLTVL

Amino acid sequence of variable alpha (Va) region of L2-2 TCR (SEQ ID NO: 172)
METLLGVSLVILWLQARVNSQQGEEDPQALSIOEGENATMNCsYKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
KSSLLITASRAADTASYFCATEGDSGYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-2 TCR (SEQ ID NO: 173)
MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
TEDFFPLRLLSAAPSQTSVYFCASSYQGGNYGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-3 TCR (SEQ ID NO: 174)
METLLGVSLVILWLQARVNSQQGEEDPQALSIOEGENATMNCsYKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
KSSLLITASRAADTASYFCATEGDSGYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-3 TCR (SEQ ID NO: 175)
MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
TEDFFPLRLLSAAPSQTSVYFCASNTQGGHYGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-5 TCR (SEQ ID NO: 176)
METLLGVSLVILWLQARVNSQQGEEDPQALSIOEGENATMNCsYKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
KSSLLITASRAADTASYFCATQGDsgYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-5 TCR (SEQ ID NO: 177)
MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
TEDFFPLRLLSAAPSQTSVYFCASSYQGGTRNGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-6 TCR (SEQ ID NO: 178)
METLLGVSLVILWLQARVNSQQGEEDPQALSIOEGENATMNCsYKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
KSSLLITASRAADTASYFCATVGNsgYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-6 TCR (SEQ ID NO: 179)
 MSIGLLCCAALSLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
 TEDFFPLRLLSAAPSQTSVYFCASSGGGSDGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-9 TCR (SEQ ID NO: 180)
 METLLGVSLVILWLQARVNSQQGEEDPQALSIQEGENATMNCYSKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
 KSSLLITASRAADTASYFCATNGESGYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-9 TCR (SEQ ID NO: 181)
 MSIGLLCCAALSLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
 TEDFFPLRLLSAAPSQTSVYFCASSTQGGDGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-10 TCR (SEQ ID NO: 182)
 METLLGVSLVILWLQARVNSQQGEEDPQALSIQEGENATMNCYSKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
 KSSLLITASRAADTASYFCAYEGNSGYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-10 TCR (SEQ ID NO: 183)
 MSIGLLCCAALSLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
 TEDFFPLRLLSAAPSQTSVYFCASSTQGGADGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-11 TCR (SEQ ID NO: 184)
 METLLGVSLVILWLQARVNSQQGEEDPQALSIQEGENATMNCYSKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
 KSSLLITASRAADTASYFCATEGDSGYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-11 TCR (SEQ ID NO: 185)
 MSIGLLCCAALSLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
 TEDFFPLRLLSAAPSQTSVYFCASRVQGGIEGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-12 TCR (SEQ ID NO: 186)
 METLLGVSLVILWLQARVNSQQGEEDPQALSIQEGENATMNCYSKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
 KSSLLITASRAADTASYFCATEGDSGYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-12 TCR (SEQ ID NO: 187)

MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
TEDFFPLRLLSAAPSQTSVYFCASNQQGGYGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-13 TCR (SEQ ID NO: 188)
METLLGVSLVILWLQARVNSQQGEEDPQALSIQEGENATMNCYKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
KSSLLITASRAADTASYFCATEGDSGYSTLTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-13 TCR (SEQ ID NO: 189)
MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
TEDFFPLRLLSAAPSQTSVYFCASRVQGGIEGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-16 TCR (SEQ ID NO: 190)
METLLGVSLVILWLQARVNSQQGEEDPQALSIQEGENATMNCYKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
KSSLLITASRAADTASYFCATEGSGYSTLTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-16 TCR (SEQ ID NO: 191)
MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
TEDFFPLRLLSAAPSQTSVYFCASSFQGGNGYGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-19 TCR (SEQ ID NO: 192)
METLLGVSLVILWLQARVNSQQGEEDPQALSIQEGENATMNCYKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
KSSLLITASRAADTASYFCATEGSGYSTLTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-19 TCR (SEQ ID NO: 193)
MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
TEDFFPLRLLSAAPSQTSVYFCASSSQGGWNGYGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-23 TCR (SEQ ID NO: 194)
METLLGVSLVILWLQARVNSQQGEEDPQALSIQEGENATMNCYKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
KSSLLITASRAADTASYFCAPLGEAGYSTLTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-23 TCR (SEQ ID NO: 195)
MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
TEDFFPLRLLSAAPSQTSVYFCASSRQGSYNEQFFGPGTRLTVL

Amino acid sequence of variable alpha (Va) region of L2-24 TCR (SEQ ID NO: 196)
 METLLGVSLVILWLQARVNSQQGEEDPQALSIQEGENATMNCYSKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
 KSSLLITASRAADTASYFCATVGDSDGYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-24 TCR (SEQ ID NO: 197)
 MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
 TEDFFPLRLLSAAPSQTSVYFCASNPGQSGSIGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L2-25 TCR (SEQ ID NO: 198)
 METLLGVSLVILWLQARVNSQQGEEDPQALSIQEGENATMNCYSKTSINNLOWYRQNSGRGLVHLILIRSNEREKHSGRRLRVTLDTSK
 KSSLLITASRAADTASYFCATEGGSGYSTLTTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L2-25 TCR (SEQ ID NO: 199)
 MSIGLLCCAALSLLWAGPVNAGVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVGAGITDQGEVPNGYNVSRST
 TEDFFPLRLLSAAPSQTSVYFCASTRQGGNEQFFGPGTRLTVL

Amino acid sequence of variable alpha (Va) region of L208 TCR (SEQ ID NO: 200)
 METLLGLLILWLQWVSSKQEVTPAALSVEGENLVNCSFTDSAIYNLOWFRQDPGKGLTSLLIQSSQREQTSGRNLNASLDKSS
 GRSTLYIAASQPGDSATYLCVLMDSNYQLIWAGAGTKLIKP

Amino acid sequence of variable beta (Vb) region of L208 TCR (SEQ ID NO: 201)
 MGTRLFYVALCLLWAGHRDAGITQSPRYKITETGRQVTLMCHQTWSHSMFWYRQDLGHGLRLIYYSAAADITDKGEVPDGYVVSRSK
 TENFPPLTLESATRSQTSVYFCASSEDGMNTEAFFGQGTRLTVV

Amino acid sequence of variable alpha (Va) region of L11-3 TCR (SEQ ID NO: 202)
 MLLITSMVLVLMQLSQVNGQQVMQIPQYQHVEGEDFTTYCNSSTLSNIQWKQRPGGHPVFLIQLVKSGEVKKQKRLTFQFGEAKKN
 SSLHITATQTTDVGTYFCADPDGLIFGQGTLSVKP

Amino acid sequence of variable beta (Vb) region of L11-3 TCR (SEQ ID NO: 203)
 MDSWTFCCVSLCILVAKHTDAGVIQSPRHEVTEMQGEVTLRCKPISGHNSLFWYRQTMRGLELLIYFNNNVPIDDSGMPEDRFSKMP
 NASFSTLKIQSEPRDSAVYFCASSLGAGAGYTFGSGTRLTVV

Amino acid sequence of variable alpha (Va) region of L11-6 TCR (SEQ ID NO: 204)

MKRILGALLGLLSAQVCCVRGIQVEQSPDILILQEGANSTLRCNFSDSVNNLQWFHQNWPQGLINLFYIPSGTKQNGRLSATTVATERY
 SLLYISSSQTTDSGVYFCAVDGGNKL VFGAGTILRVKS

Amino acid sequence of variable beta (Vb) region of L11-6 TCR (SEQ ID NO: 205)
 MDSWTFCCVSLCILVAKHTDAGVIQSPRHEVTEMGQEVTLRCKPISGHNSLFWYRQTMRGLELLIYFNNNVPIDDSGMPEDRFSAKMP
 NASFSTLKIQSEPRDSAVYFCASSLGAGSGWEQYFGPGTRLTVT

Amino acid sequence of variable alpha (Va) region of L11-15 TCR (SEQ ID NO: 206)
 MAFWLRLGLHFRPHLGRRMESFLGGVLLILWLQVDWVKSQKIEQNSEALNIQEGKTATLTTCNTNYSPAYLQWYRQDPGRGPVFLLLI
 RENEKEKRKERLKVTFDTTLKQSLFHITASQPADSATYLCRLNTPLVFGKGRLSVIA

Amino acid sequence of variable beta (Vb) region of L11-15 TCR (SEQ ID NO: 207)
 MGTRLLCWAALCLLGAELTEAGVAQSPRYKIIEKRQSVAFWCNPISGHATLYWYQQILGQGPCKLLIQFQNNGVVDDSQLPKDRFSAERL
 KGVDSTLKIQPAKLEDSAVYLCASSLVPEETQYFGPGTRLILVL

Amino acid sequence of variable alpha (Va) region of L11-20 TCR (SEQ ID NO: 208)
 MKRILGALLGLLSAQVCCVRGIQVEQSPDILILQEGANSTLRCNFSDSVNNLQWFHQNWPQGLINLFYIPSGTKQNGRLSATTVATERY
 SLLYISSSQTTDSGVYFCAVLNNNDMRFGAGTRLTVKP

Amino acid sequence of variable beta (Vb) region of L11-20 TCR (SEQ ID NO: 209)
 MGCRLCCAVLCLLGAVPIDTEVTQTPKHLVMGMTNKKSLKCEQHMGHRAMYWKAKKPPPELMFVSYEKLINESVPSRFSPECNP
 SLLNLHLHALQPEDSALYLCASSQGRWYEQYFGPGTRLTVT

Amino acid sequence of variable alpha (Va) region of L11-22 TCR (SEQ ID NO: 210)
 MRQVARVIVFTLSTLSLAKTTQPISMDSYEGQEVNITCSHNNIATNDYITWYQQFPSQGPRIIQGYKTKVTNEVASLFI PADRKSSST
 LSLPRVSLSDTAVYYCLVGDQGYSTLTFGKGTMLLVSP

Amino acid sequence of variable beta (Vb) region of L11-22 TCR (SEQ ID NO: 211)
 MGTRLLCWAALCLLGAELTEAGVAQSPRYKIIEKRQSVAFWCNPISGHATLYWYQQILGQGPCKLLIQFQNNGVVDDSQLPKDRFSAERL
 KGVDSTLKIQPAKLEDSAVYLCASSFKLVEETQYFGPGTRLILVL

Amino acid sequence of variable alpha (Va) region of L24-49 TCR (SEQ ID NO: 212)
 MISLRVLLVILWLQLSWVWSQRKEVEQDPGFNVPEGATVAFNCTYSNSASQSFVWYRQDCRKEPKLLMSVYSSGNEDGRFTAQLNRAS
 QYISLLIRDSKLSDSATYLCVVRGYNFNKFFYFGSGTKLNVPK

Amino acid sequence of variable beta (Vb) region of L24-49 TCR (SEQ ID NO: 213)
 MLLLLLLGGGGLGAVSQHPSRVICKSGTSVKIECRSLDFQATTFWYRQFPKQSLMLMATSNESGKATYEQGVKDKFLINHASLT
 LSTLTVTSAHPEDSSFYICARGPGEREANTDTQYFGPGTRLTVL

Amino acid sequence of variable alpha (Va) region of L24-2 TCR (SEQ ID NO: 214)
 MATGSRSTSLLLAFGLLCLPWLQEQASARKEVEQDPGFNVPEGATVAFNCTYSNASQSFFWYRQDCRKEPKLLMSVYSSGNEDGRFETAQ
 LNRASQYISLLIRDSKLSDSATYLCVVRGYNFNKFYFGSGTKLNVKP

Amino acid sequence of variable beta (Vb) region of L24-2 TCR (SEQ ID NO: 215)
 MATGSRSTSLLLAFGLLCLPCLQEGSAGAVSQHPSWVICKSGTSVKIECRSLDFQATTFWYRQFPKQSLMLMATSNESGKATYEQGVE
 KDKFLINHASLTSLTTLVTSAPEDSSFYICARGPRITDSSTDTQYFGPGTRLTVL

Amino acid sequence of variable alpha (Va) region of L24-3 TCR (SEQ ID NO: 216)
 MATGSRSTSLLLAFGLLCLPWLQEQASAGQQVMQIPQYQHVEGEDFTTYCNSSSTLSNIQWYKQRPGGHPVFLIQLVKSGEVKKQKRLTF
 QFGEAKKNSSLHITATQTTDVGTYFCARFSDGQKLLFARGTMLKVDL

Amino acid sequence of variable beta (Vb) region of L24-3 TCR (SEQ ID NO: 217)
 MATGSRSTSLLLAFGLLCLPCLQEGSANAGVTQPKFRILKIGQSMTLQCTQDMNHNMYWYRQDPGMGLKLIYYSVGAGITDKGEVPNG
 YNVSRSSTEDFPLRLELAAPSQTSVYFCASSCRGRGDCTEAFFGQTRLTVV

Amino acid sequence of variable alpha (Va) region of L24-5 TCR (SEQ ID NO: 218)
 MMKSLRVLLVILWLQLSWVWSQQKEVEQDPGLSPVEGAIVSLNCTYSNSAFQYFMWYRQYSRKGPPELLMYTYSNGNKEDGRFTAQVDK
 SSKYISLFTIRDSQPSDSATYLCAMSAWASKIIFGSGTRLISIRP

Amino acid sequence of variable beta (Vb) region of L24-5 TCR (SEQ ID NO: 219)
 MASLFFCGAFYLLGTGMDADVTTQTPRNRITKTGKRIMLECSQTKGHDWMYRQDPGLRLIYYSFDVKDINKGEISDGYSVSRQA
 QAKFSLSLESAIPNOTALYFCATSEKGTGRQETQYFGPGTRLVL

Amino acid sequence of variable alpha (Va) region of L24-13 TCR (SEQ ID NO: 220)
 MATGSRSTSLLLAFGLLCLPWLQEQASAGQQVMQIPQYQHVEGEDFTTYCNSSSTLSNIQWYKQRPGGHPVFLIQLVKSGEVKKQKRLTF
 QFGEAKKNSSLHITATQTTDVGTYFCARFSDGQKLLFARGTMLKVDL

Amino acid sequence of variable beta (Vb) region of L24-13 TCR (SEQ ID NO: 221)

MATGSR T S L L L A F G L L C L P C L Q E G S A N A G V T Q T P K F R I L K I G Q S M T L Q C T Q D M N H N Y M Y W Y R Q D P G M G L K L I Y Y S V G A G I T D K G E V P N G
Y N V S R S T T E D F P L R L E A A P S Q T S V Y F C A S S N R G G V P D T Q Y F G P G T R L T V L

Amino acid sequence of variable alpha (Va) region of L24-21 TCR (SEQ ID NO: 222)
M E T L L G L L L L W L Q L W V S S K Q E V T Q I P A A L S V P E G E N L V L N C S F T D S A I Y N L Q W F R Q D P G K G L T S L L L I Q S S Q R E Q T S G R L N A S L D K S S
G R S T L Y I A A S Q P G D S A T Y L C G G L G F G N V L H C G S G T Q V I V L P

Amino acid sequence of variable beta (Vb) region of L24-21 TCR (SEQ ID NO: 223)
M L C S L L A L L L G T F F G V R S Q T I H Q W P A T L V Q P V G S P L S L E C T V E G T S N P N L Y W Y R Q A A G R G L Q L L F Y S V G I G Q I S S E V P Q N L S A S R P Q D R
Q F I L S S K K L L L S D S G F Y L C A W S S L A S S Y E Q Y F G P G T R L T V T

Amino acid sequence of mouse TCR alpha chain constant region (SEQ ID NO: 224)
D I Q N P E P A V Y Q L K D P R S Q D S T L C L F T D F D S Q I N V P K T M E S G T F I T D K T V L D M K A M D S K S N G A I A W S N Q T S F T C Q D I F K E T N A C Y P S S D V
P C D A T L T E K S F E T D M N L N F Q N L S V M G L R I L L K V A G F N L L M T L R L W S S R A K R

Amino acid sequence of mouse TCR beta chain constant region (SEQ ID NO: 225)
E D L R N V T P P K V S L F E P S K A E I A N K Q A T L V C L A R G F F P D H V E L S W W V N G K E V H S G V S T D P Q A Y K E S N Y S C L S R L R V C A T F W H N P R N H
F R C Q V Q F H G L S E E D K W P E G S P K P V T Q N I S A E A W G R A D C G I T S A S Y Q Q G V L S A T I L Y E I L L G K A T L Y A V L V S T L V V M A M V K R K N S