

phospho-STAT5
(MFI)

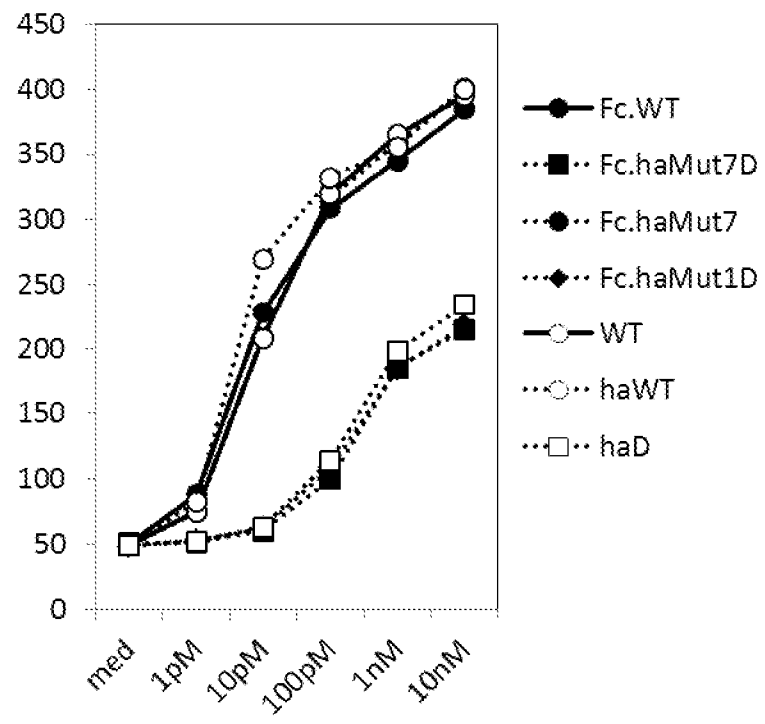


FIG. 1

FIG. 2A

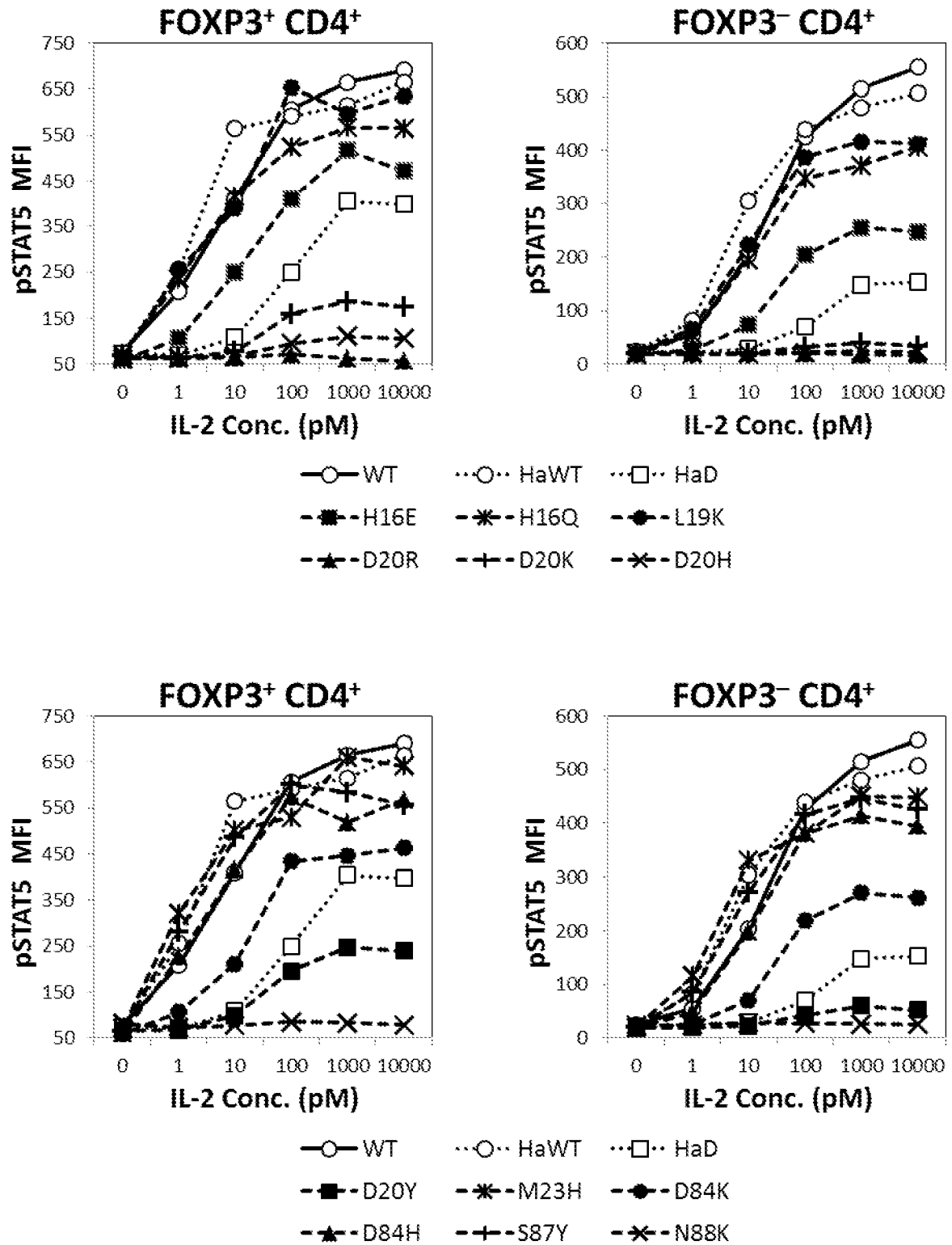
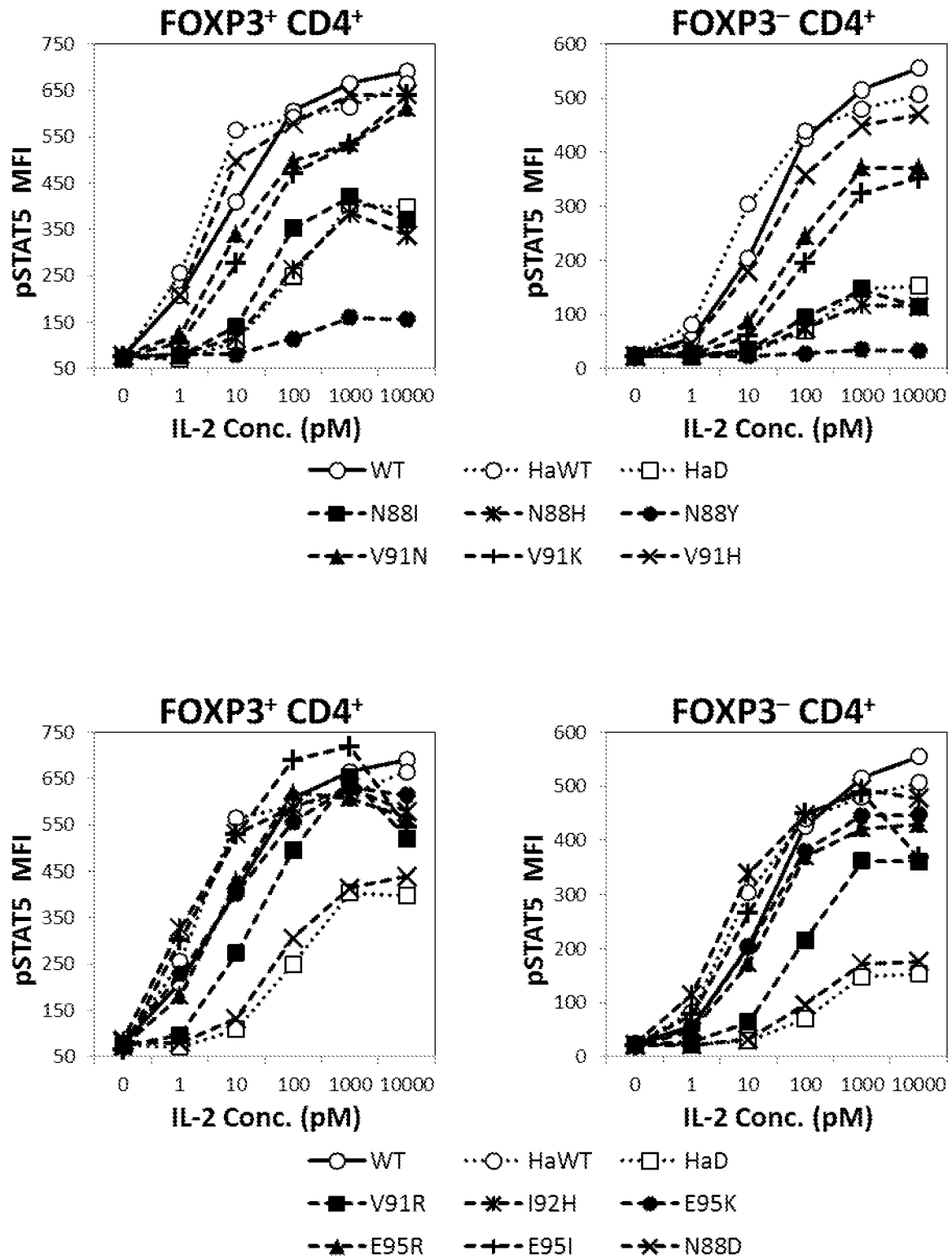


FIG. 2B



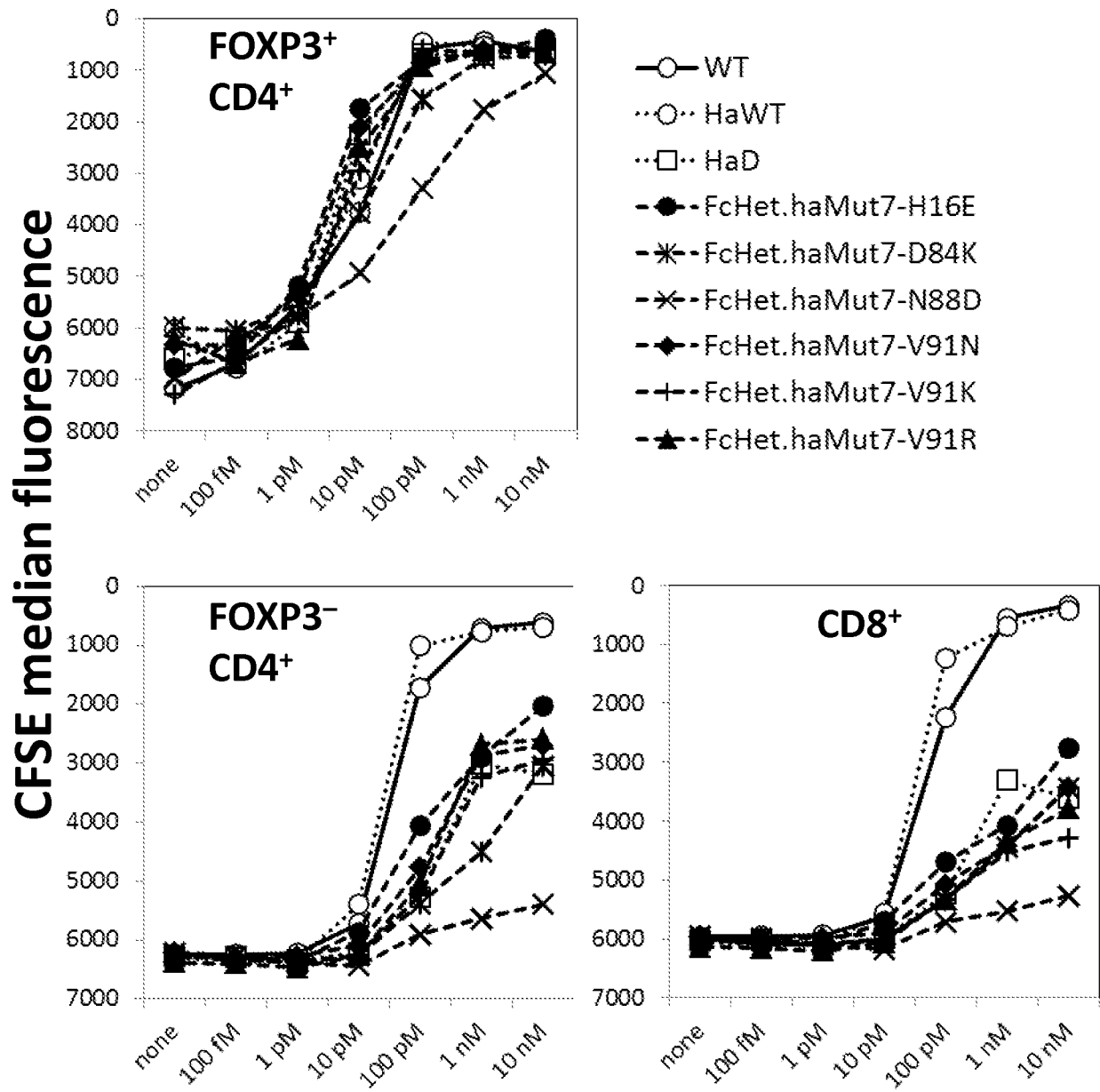


FIG. 3

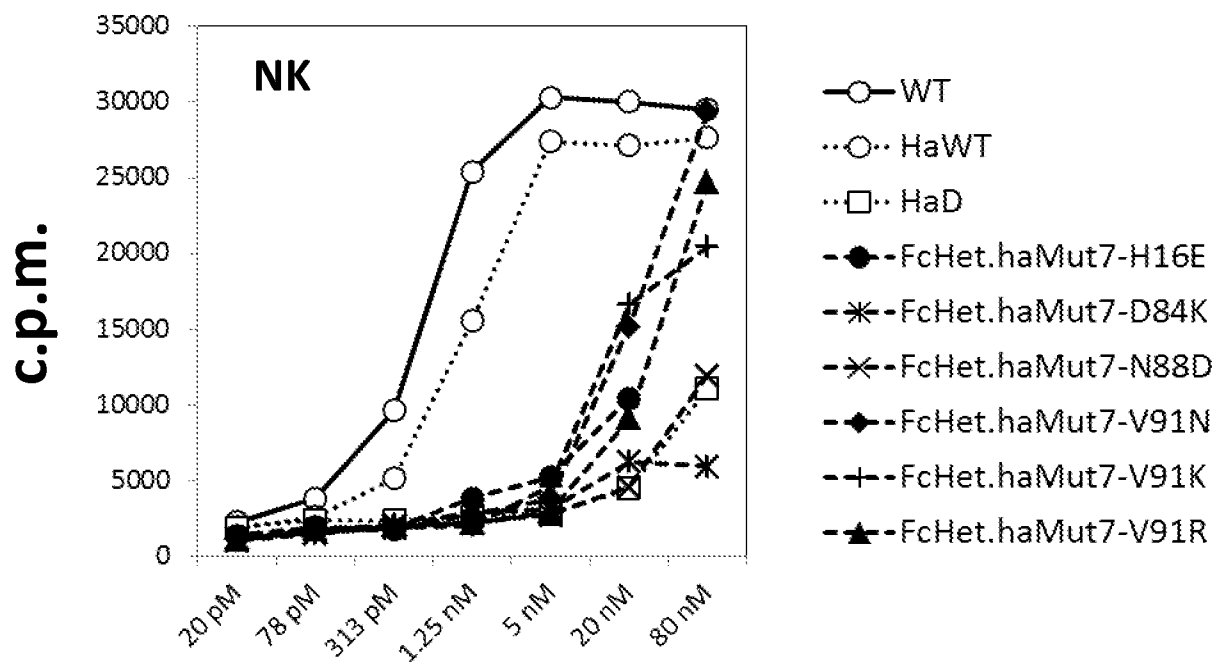


FIG. 4

CFSE median fluorescence

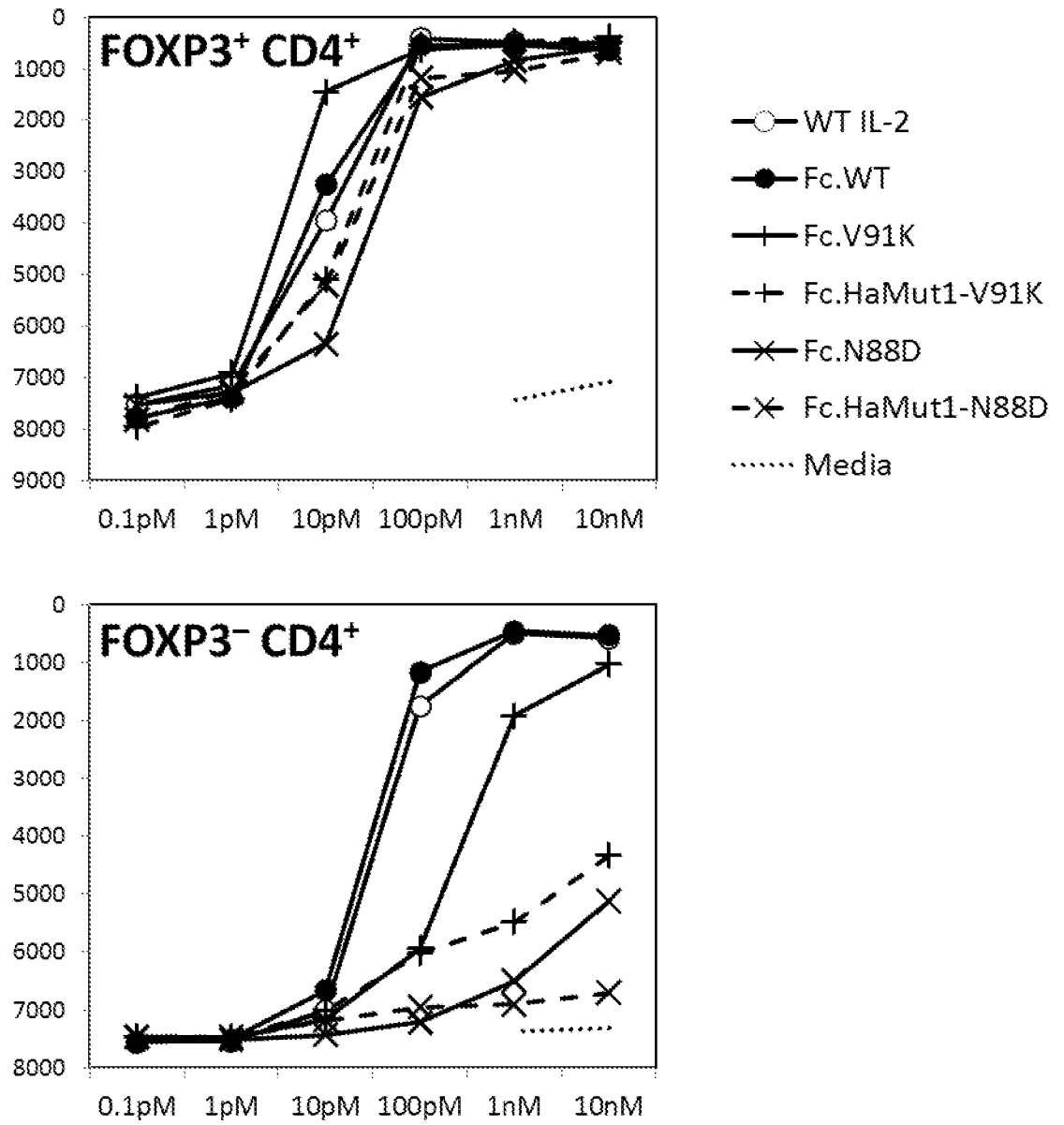


FIG. 5

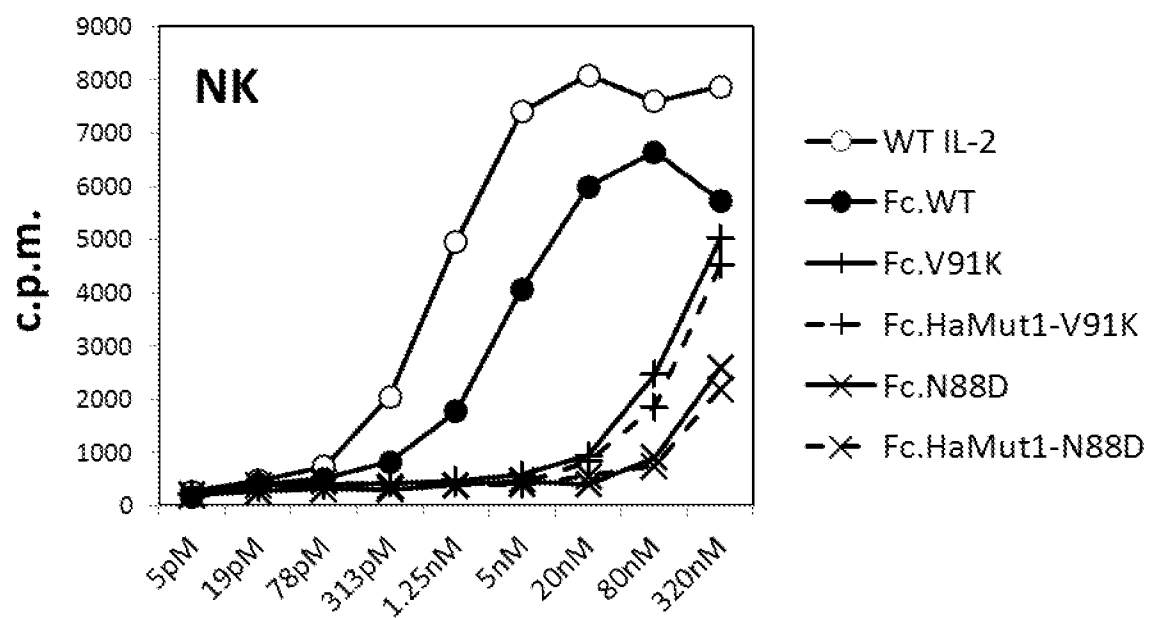


FIG. 6

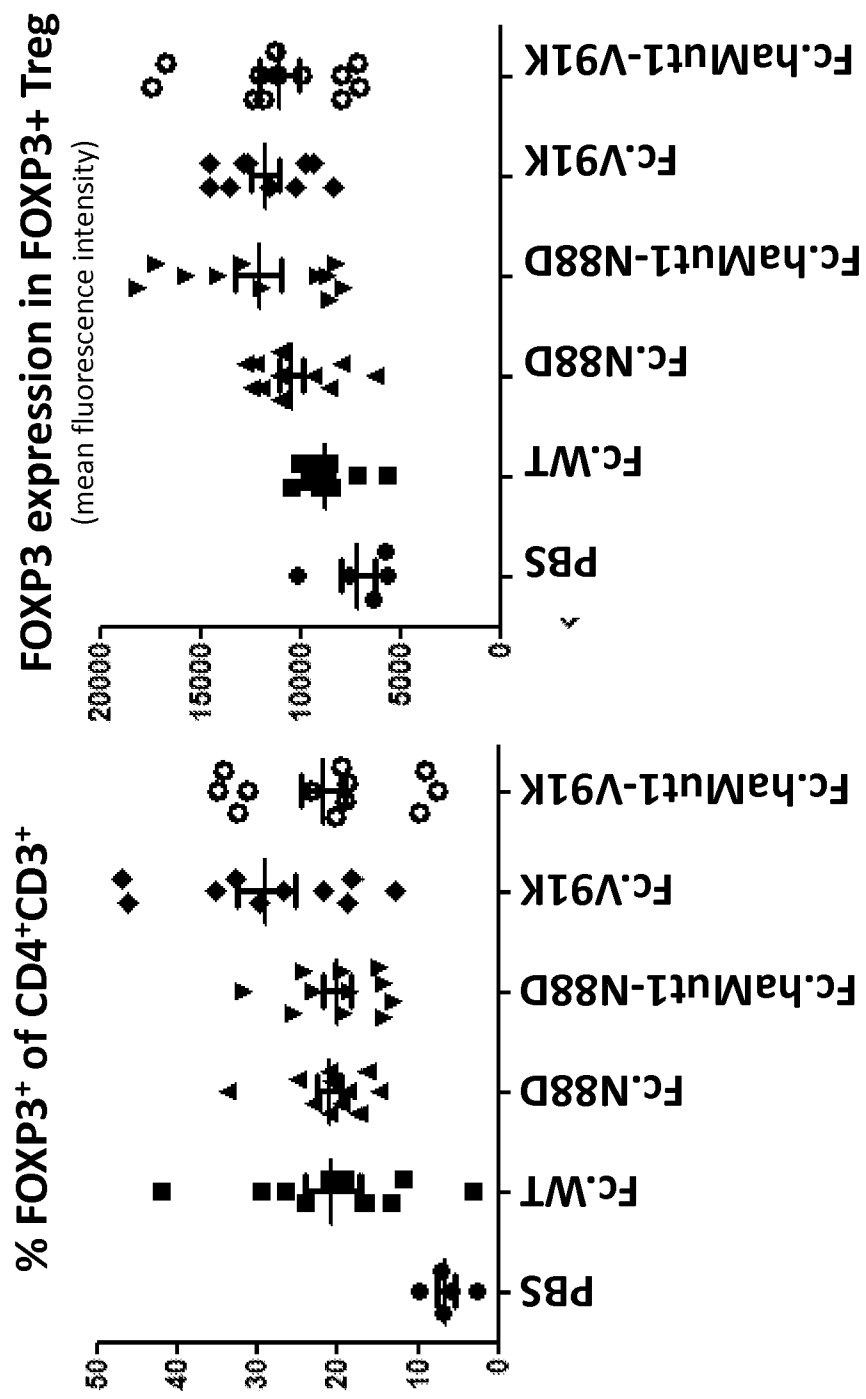


FIG. 7A

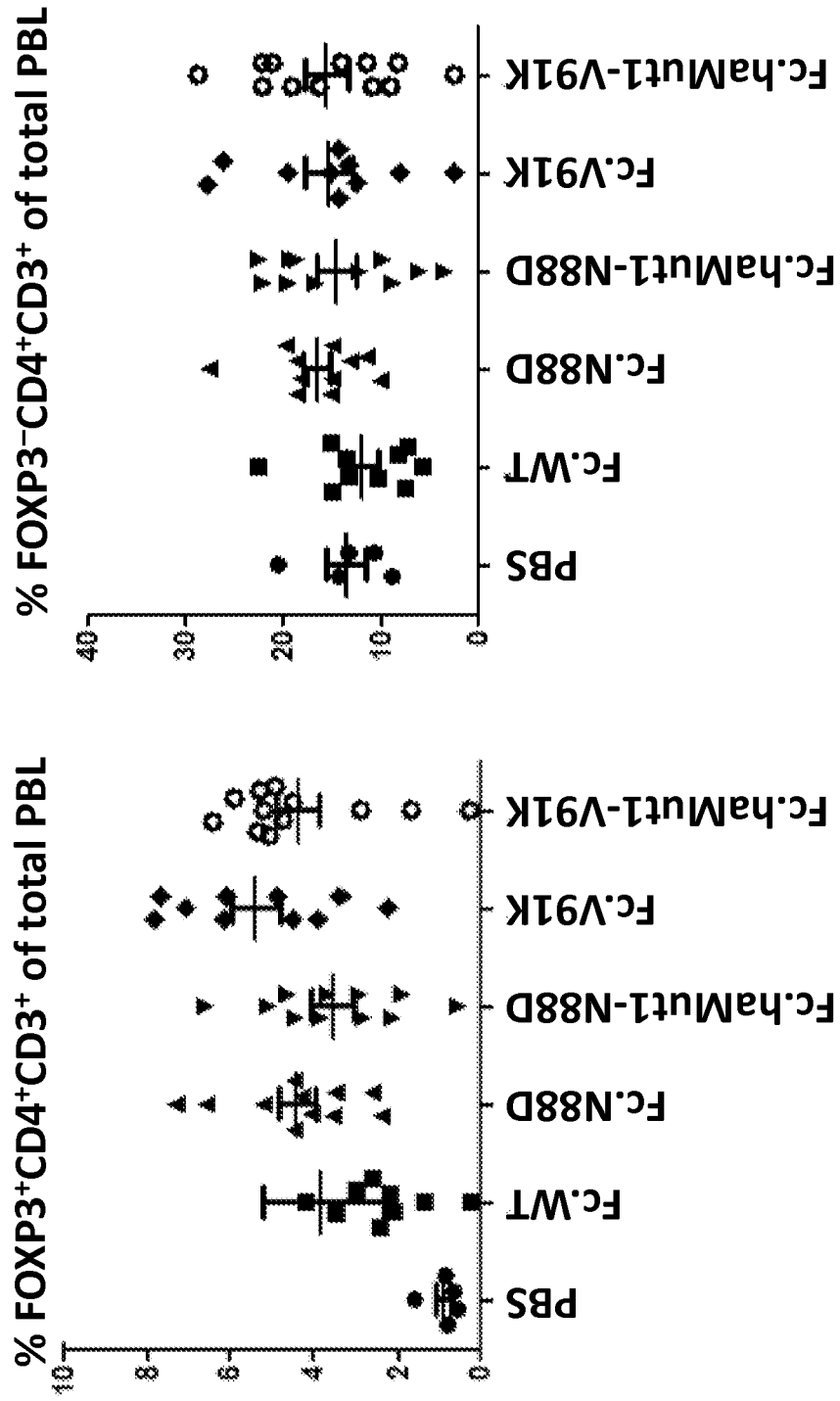


FIG. 7B

FIG. 8

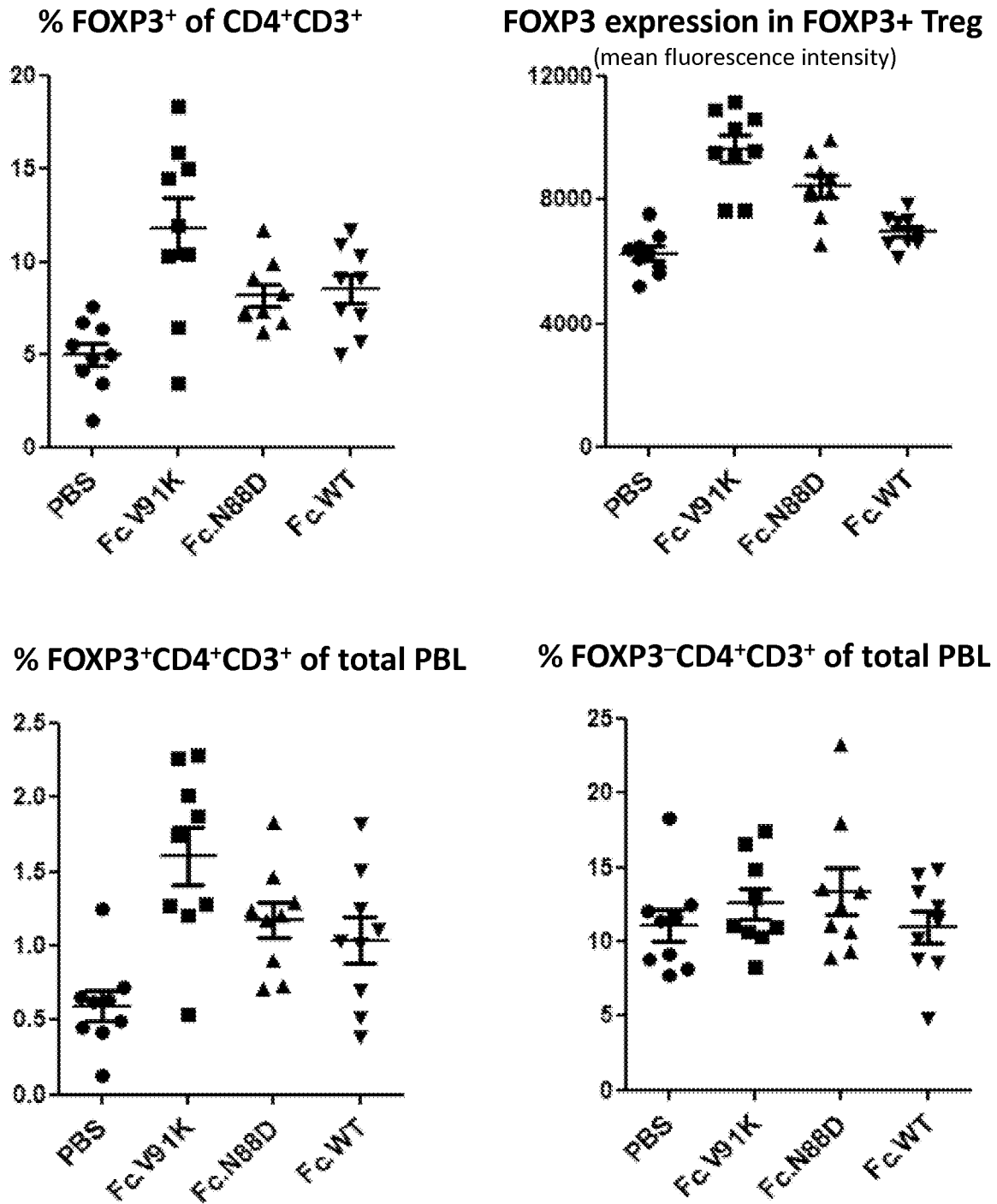


FIG. 9A

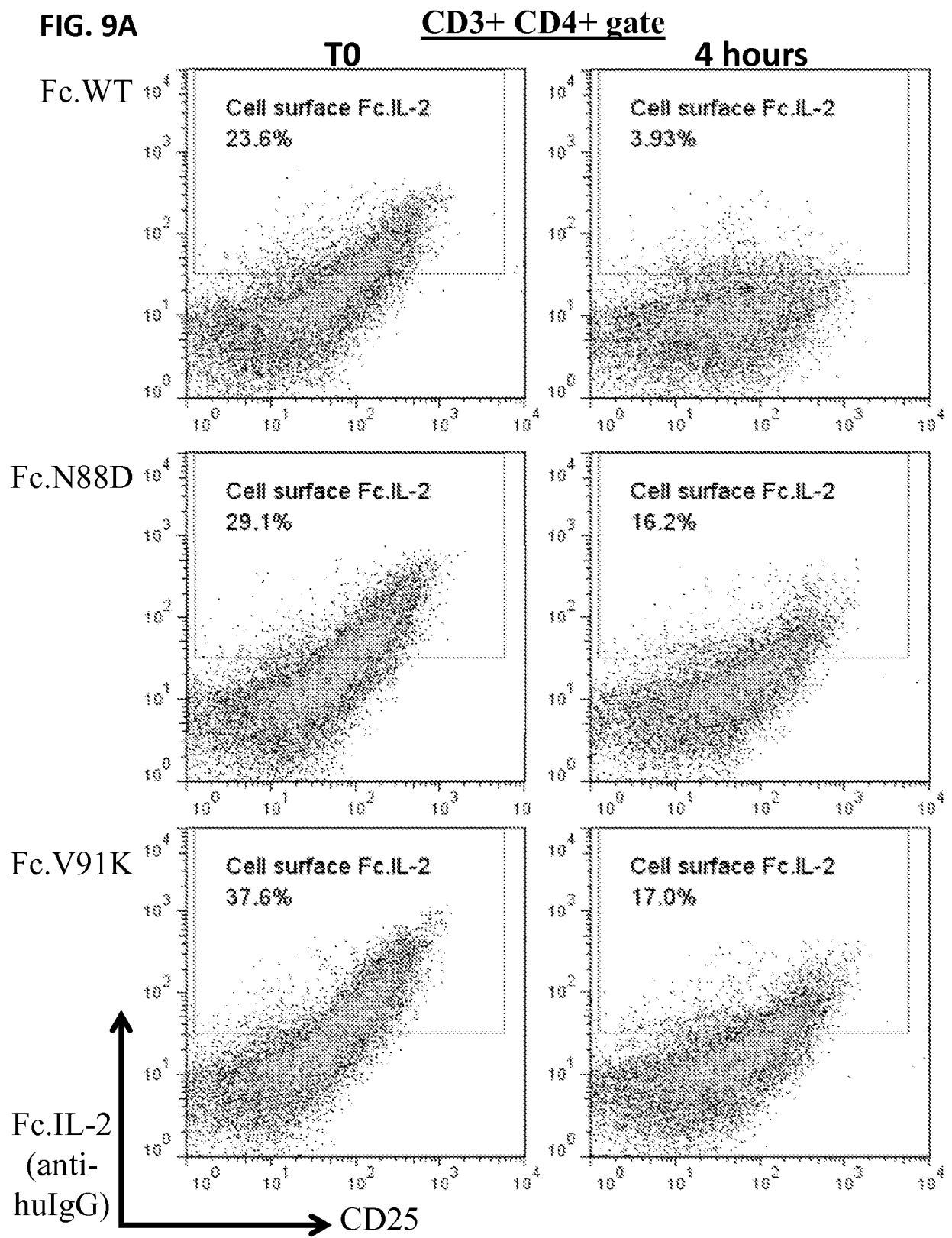


FIG. 9B

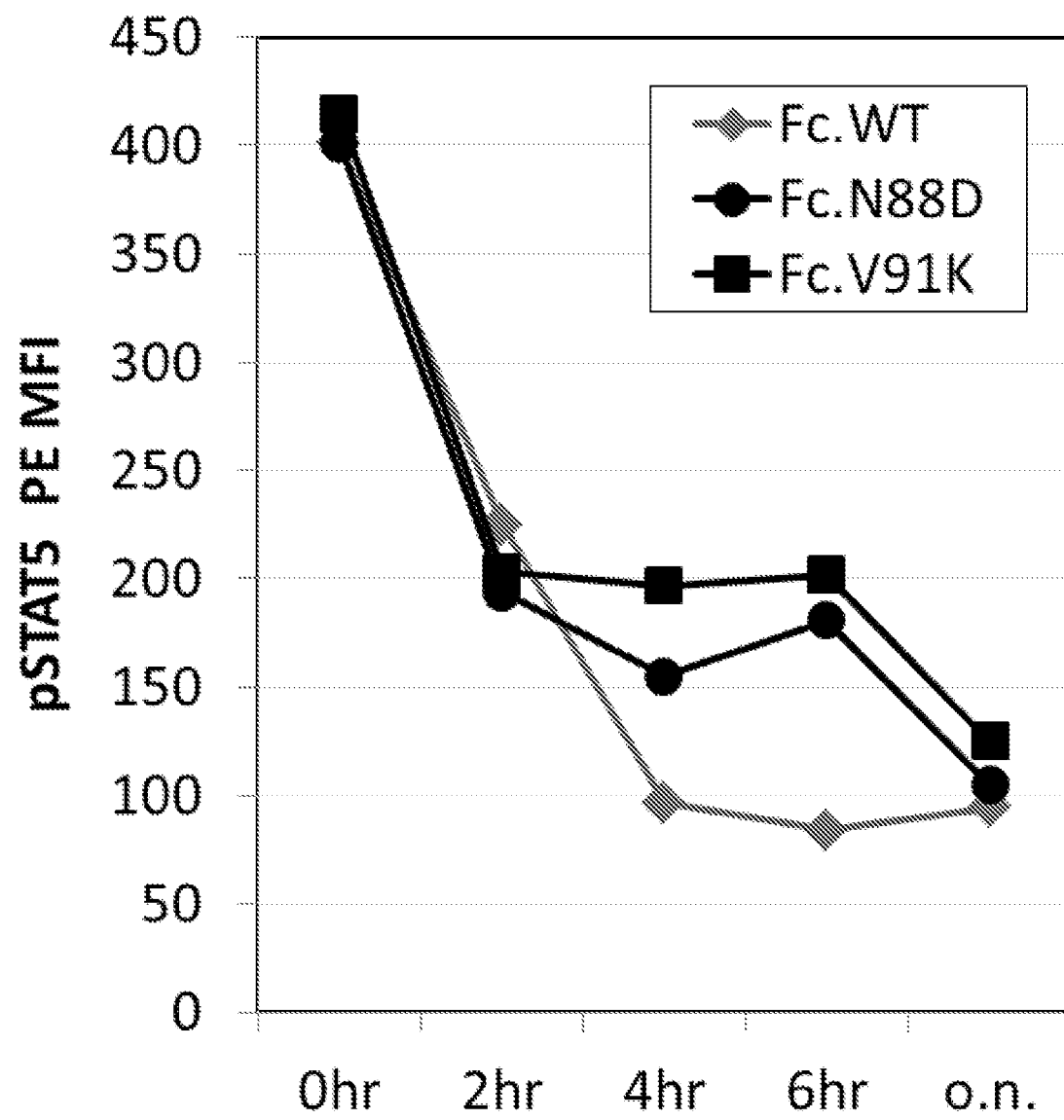


FIG. 10A

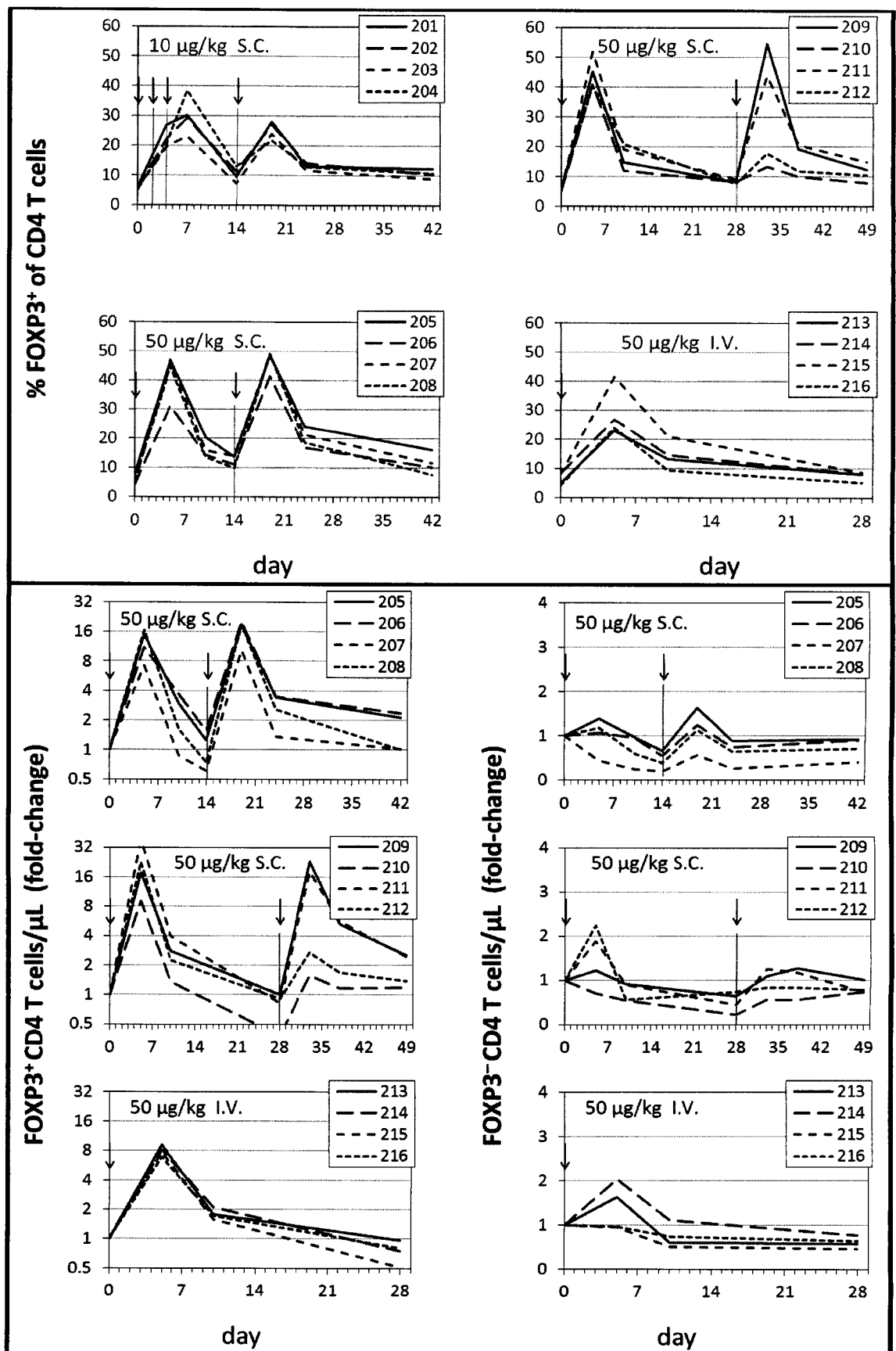


FIG. 10B

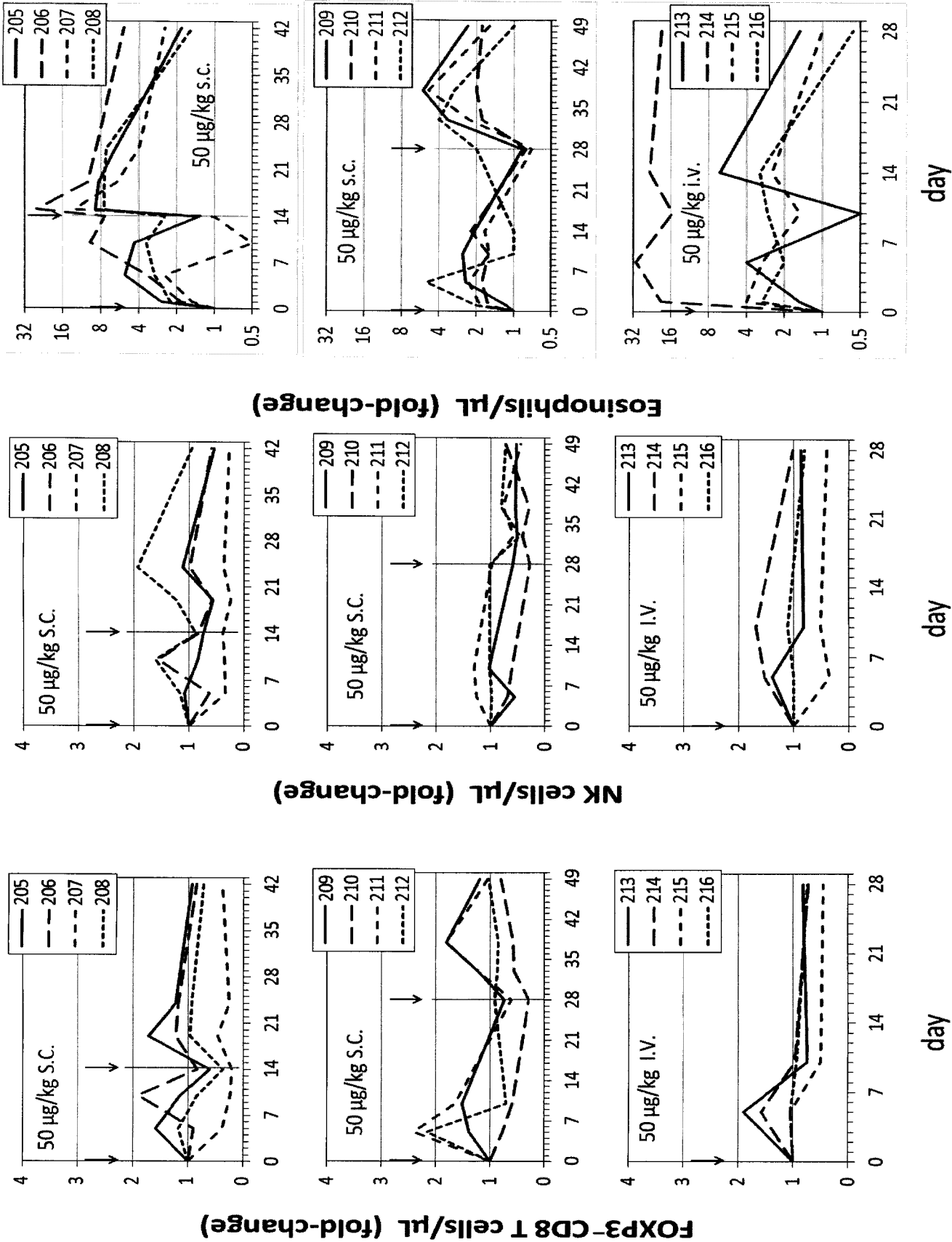


FIG. 11A

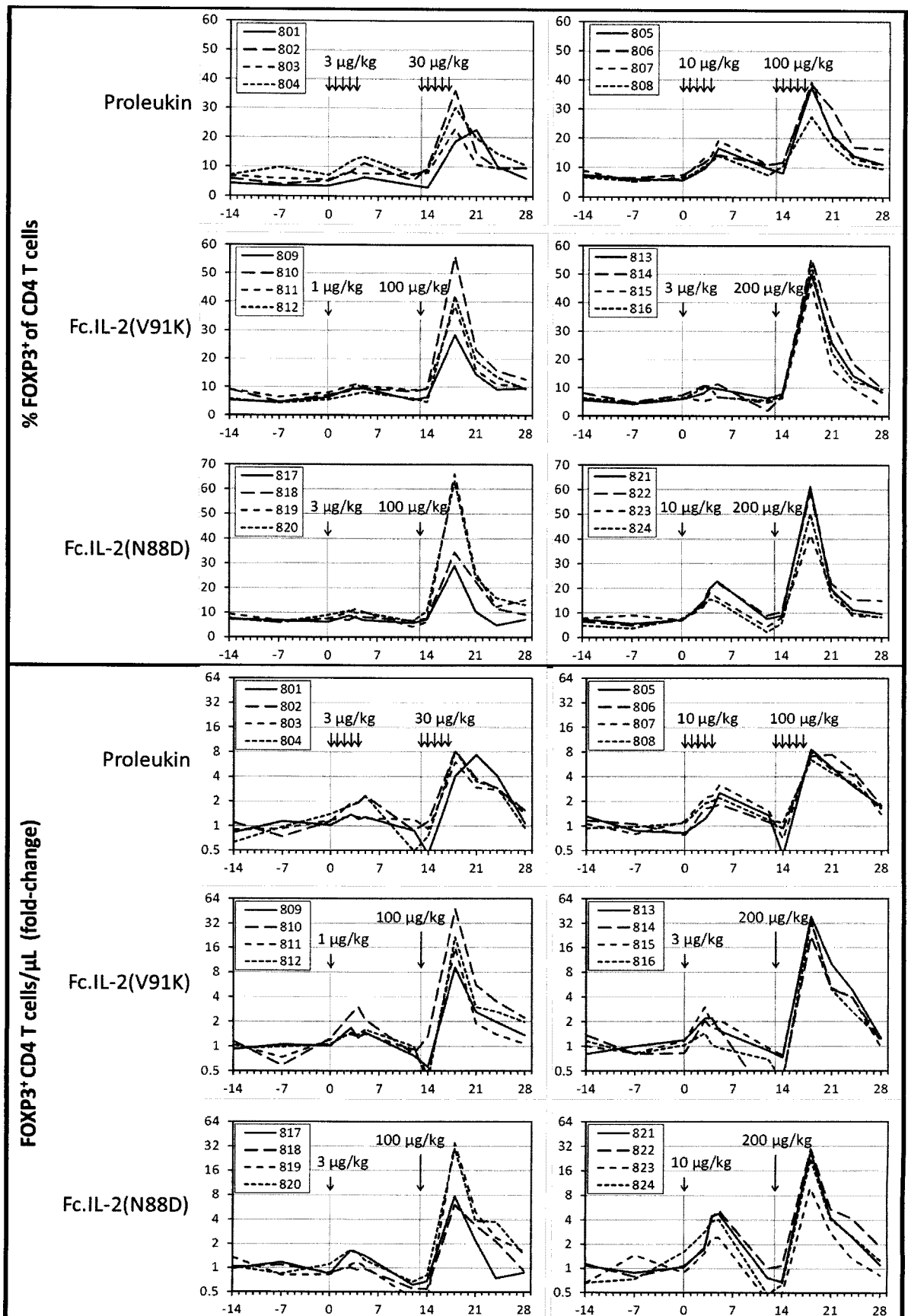


FIG. 11B

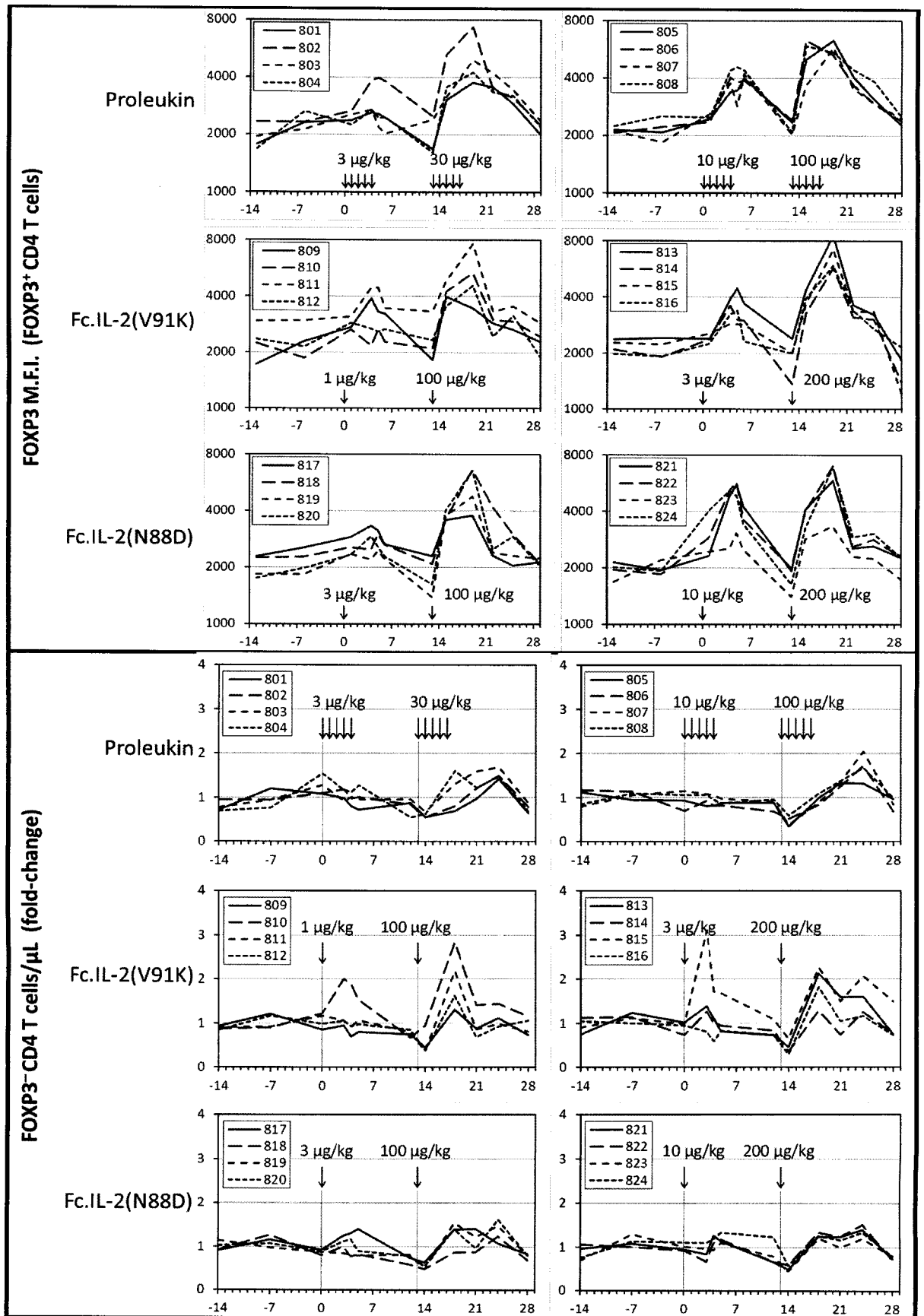


FIG. 11C

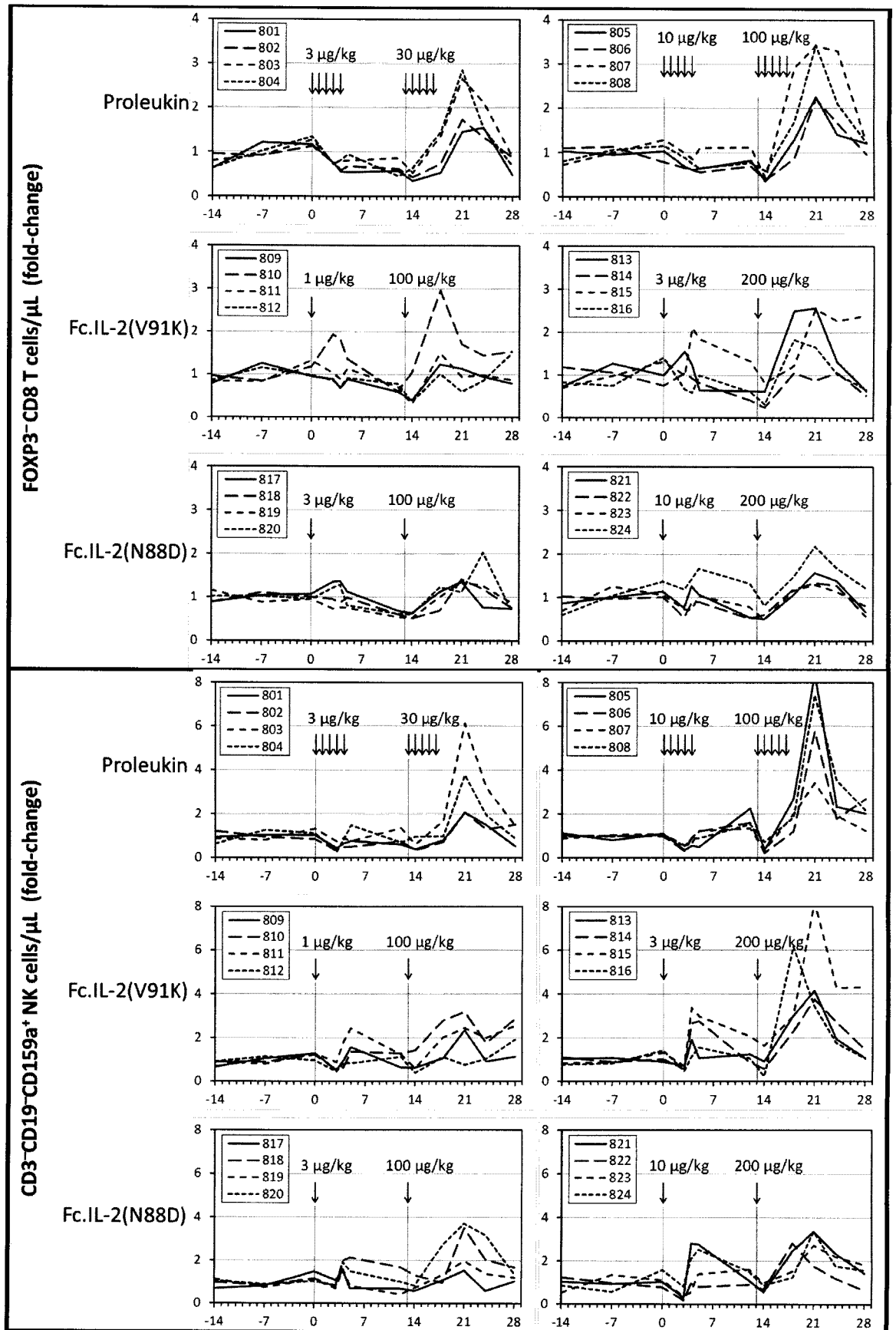


FIG. 11D

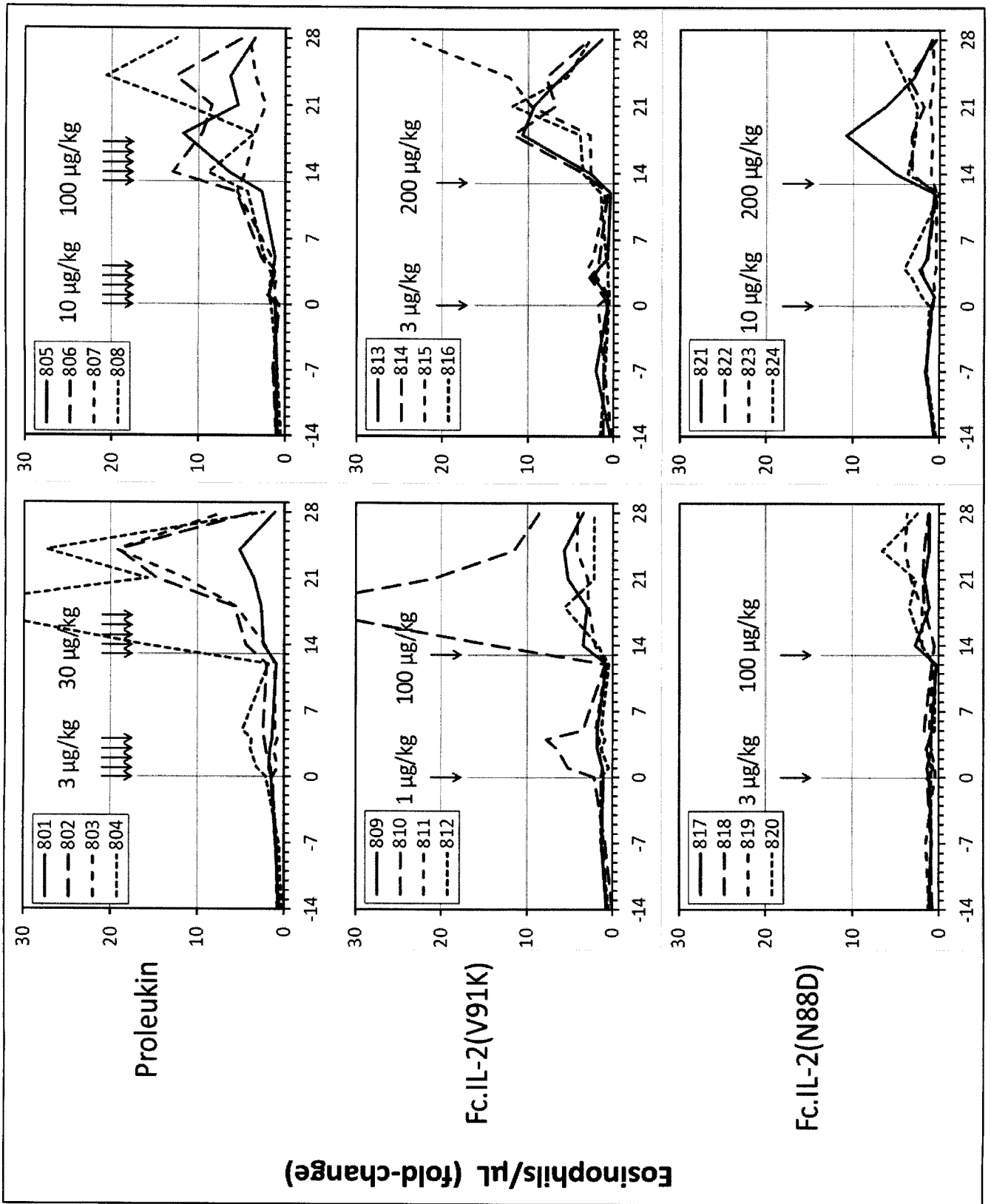


FIG. 11E

Change in Body Temperature (°C)

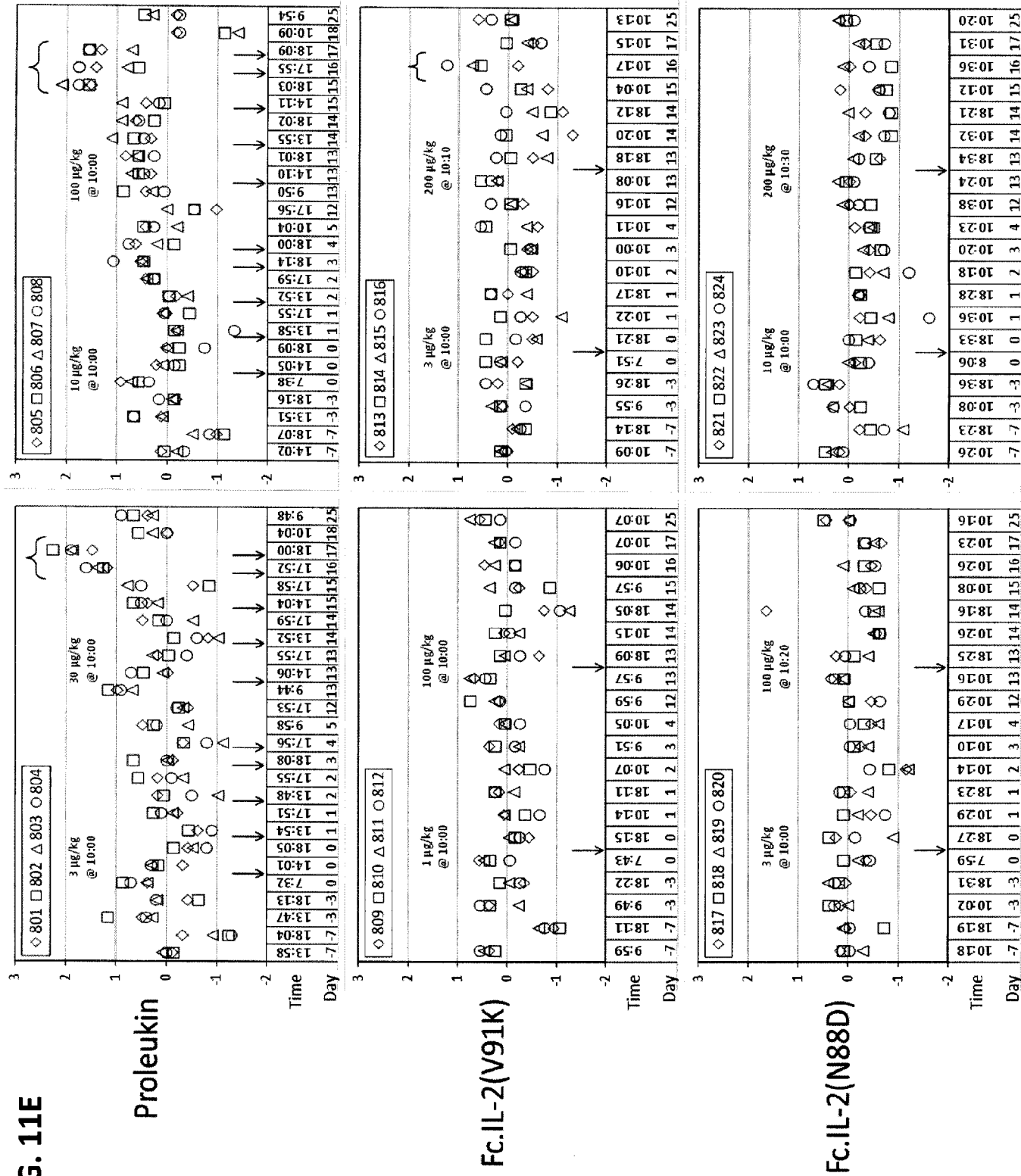


FIG. 11F

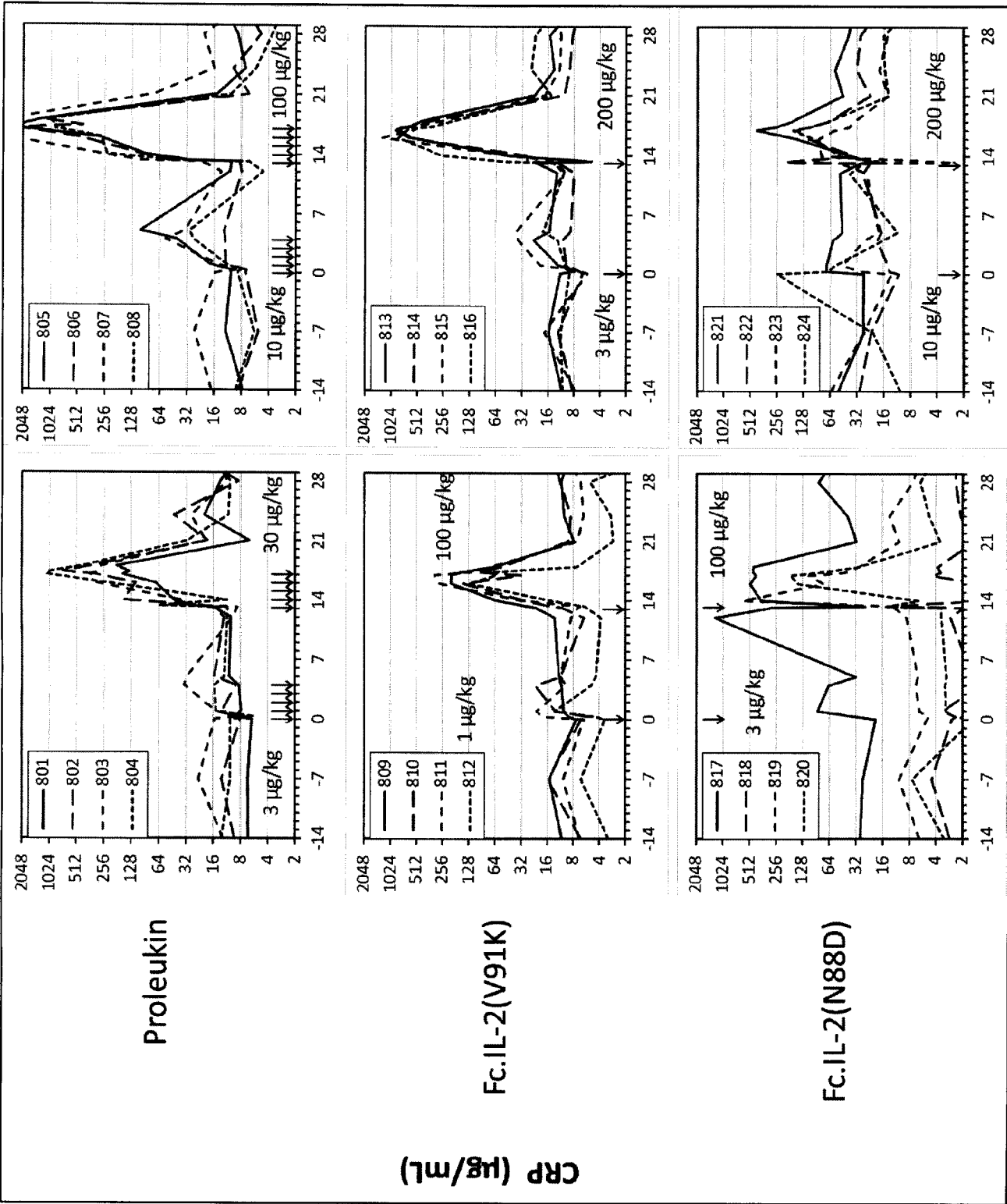


FIG. 12A

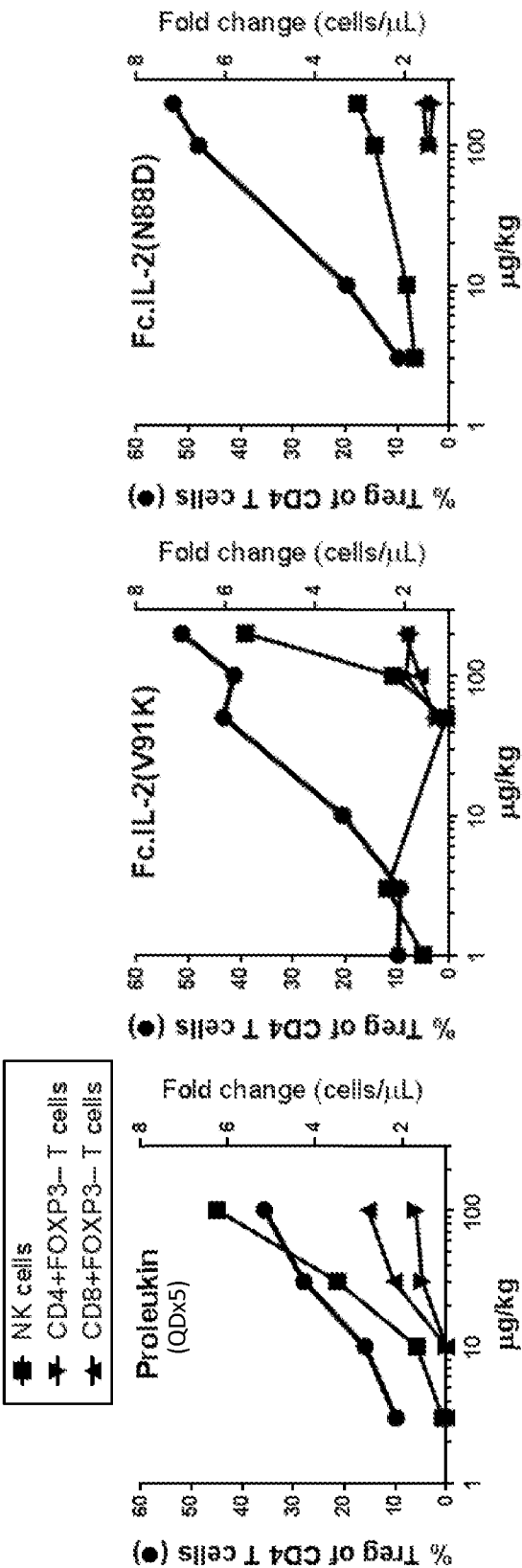


FIG. 12B

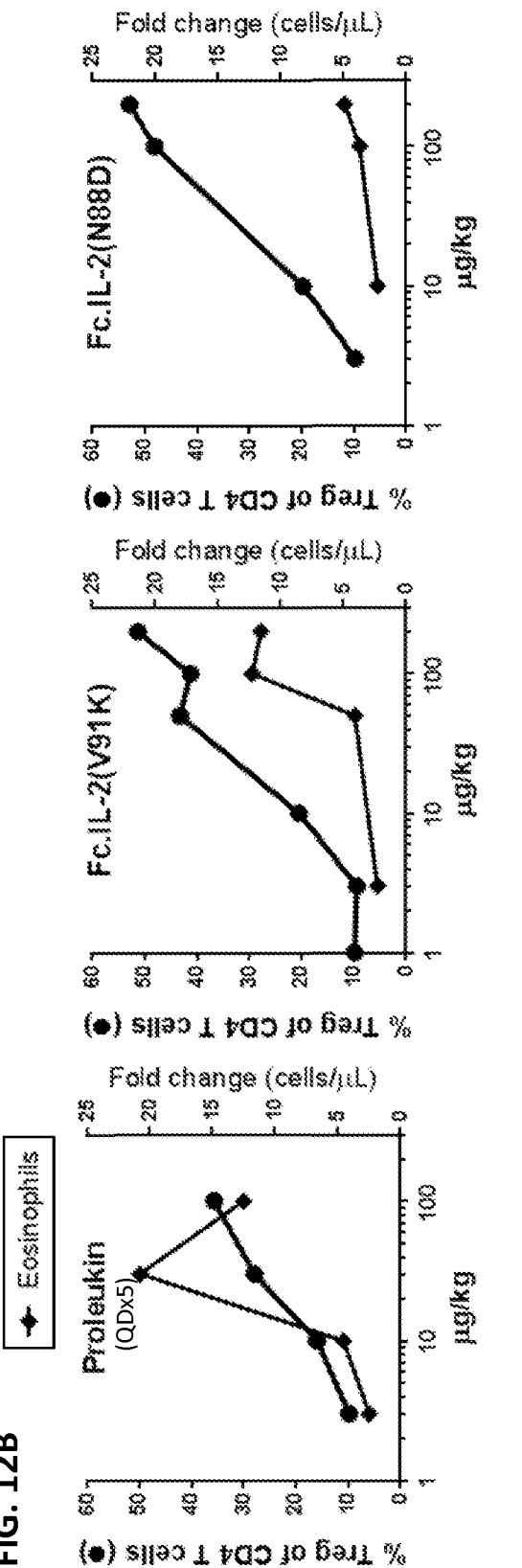


FIG. 12C

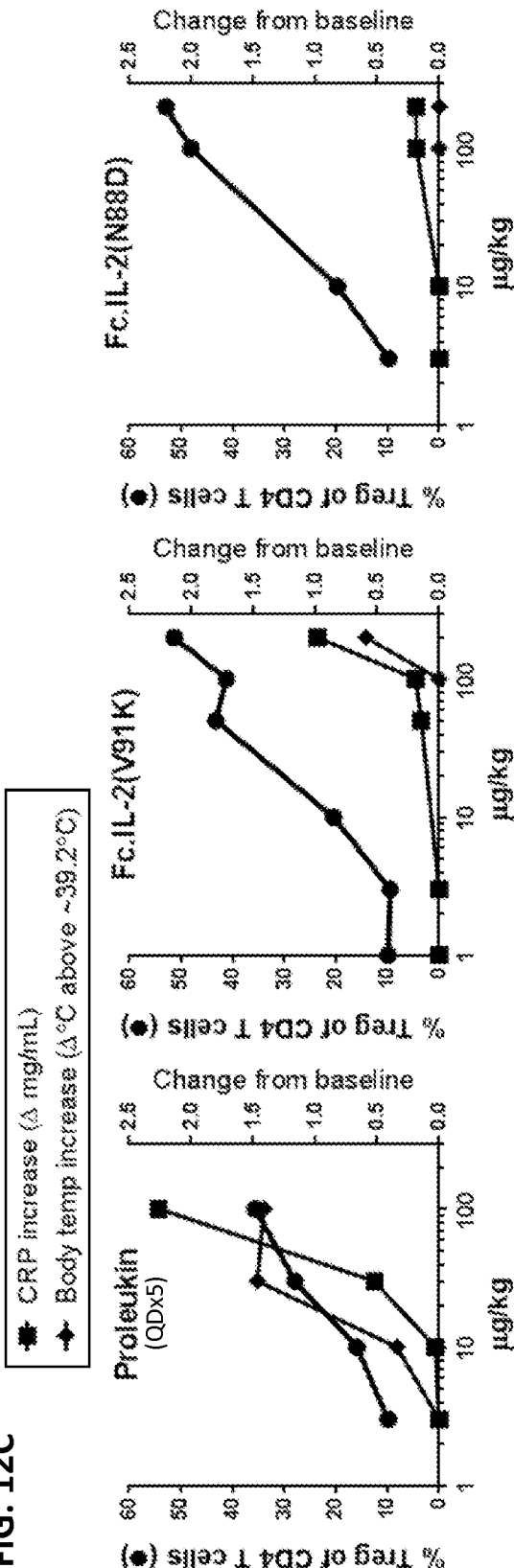


FIG. 12D

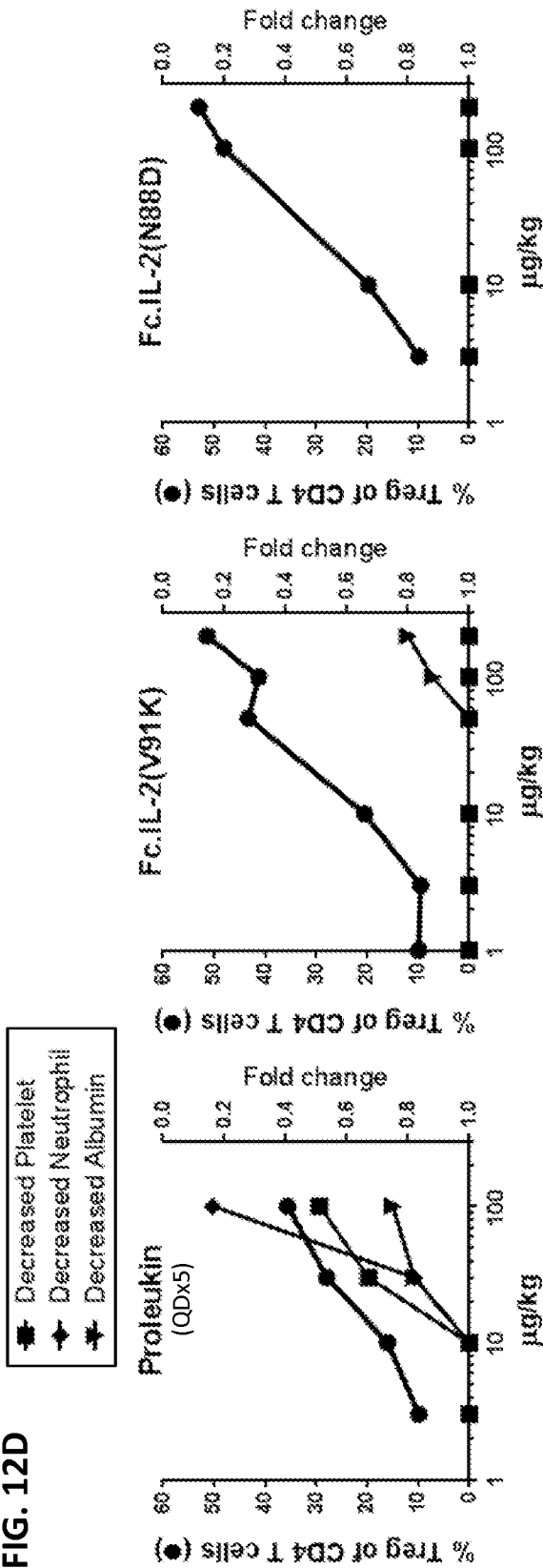


FIG. 13

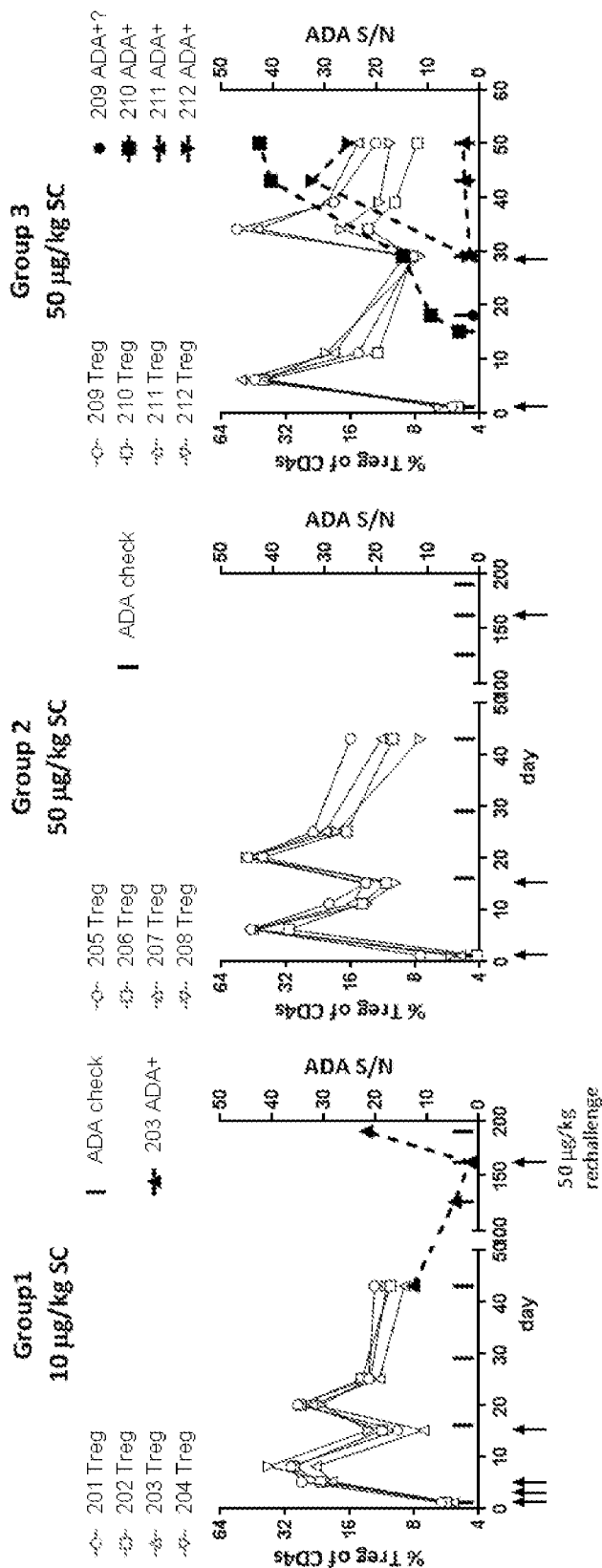


FIG. 14

	L12	Q13	E15	H16	L19	D20	M23	R81	D84	S87	N88	V91	I92	L94	E95
A	1.18	0.82	1.26	2.51	2.05	1.61	0.68	1.61	1.53	-0.1	2.13	1.22	1.04	0.21	0.68
D	0.49	0.81	0.99	2.39	1.7	0	0.41	1.19	0	-0.4	1.1	0.52	0.29	-0.2	0.15
E	0.93	-0.1	0	1.01	1.58	0.49	0.01	0.93	2.4	-0.4	2.15	1.89	0.75	-0.9	-0
F	0.1	0.86	-0.5	0.97	-0.9	1.6	0.2	-0	0.98	-1.5	1.3	-0.6	0.18	-0	-0.5
G	1.36	1.08	1.51	3.06	2.73	1.83	0.82	1.62	2.11	0.19	2.78	1.88	1.29	0.32	1.11
H	-0.1	-0	0.29	0.42	0.18	0.55	0.39	0.52	1.64	-0.3	1.69	0.5	-0.1	0.04	0.84
I	-0.1	0.45	0.06	0.91	0.73	0.74	-0.1	1.01	1.76	-0.9	0.25	0.98	0	-0.6	0.48
K	1.19	0.25	0.85	3.98	-0.3	1.56	0.22	1.04	2.66	0.01	3.72	2.7	1.57	0.59	0.73
L	0	0.33	-0.1	1.47	0	0.57	0.14	1.11	1.16	-0.8	0.29	0.74	-0.3	0	0.12
M	1.09	-0.1	0.41	1.86	1.2	0.96	0	0.9	2.04	-1	2.17	1.09	0.72	0.09	0.64
N	0.26	0.66	0.68	1.59	1.31	0.16	0.26	1.38	0.66	-0.5	0	0.32	0.89	-0.3	0.5
P	0.89	0.24	1.01	2.18	0.97	0.86	0.34	1.36	1.18	-0.5	0.89	0.28	0.33	-0.1	0.08
Q	1.27	-0	0.21	0.94	0.98	0.61	-0.2	1.11	2.41	-0.2	1.46	0.73	-0.3	0.08	0.51
R	1.04	-0.2	0.48	2.69	1.17	1.33	1.19	0	1.69	1.15	2.19	1.23	1.8	0.47	1.03
S	1.35	0.85	1.3	2.73	2.33	1.25	0.89	1.71	2.06	0	2.19	1.54	0.8	0.24	0.68
T	1.11	0.6	0.88	1.91	1.58	1.16	0.67	1.69	2.3	-0.2	1.17	0.72	0.53	0.07	0.6
V	0.77	0.75	0.45	1.76	1.64	1.22	0.28	1.34	0.69	-0.3	2.2	-0	0.54	-0.1	0.31
W	-1.4	0.47	-0.7	-0.6	-2.4	3.88	0.08	-0.7	0.33	-0	2.88	-0.5	-0.3	-0.2	-0.4
Y	0.25	0.62	-0.2	1.55	-1.8	0.96	0.06	-0.3	0.82	-0.6	1.07	-0.4	-0.3	-0	0.63

FIG. 15

	L12	Q13	E15	H16	L19	D20	M23	R81	D84	S87	N88	V91	I92	L94	E95
A	2.9	3.4	4.8	12.1	7.0	6.0	3.5	5.4	8.1	1.4	11.7	8.4	5.6	-0.3	6.5
D	5.9	8.2	8.6	21.0	17.8		5.6	6.9		-3.4	14.4	13.5	9.8	0.1	3.6
E	6.9	2.5		13.7	12.1	19.0	4.1	4.3	1.6	-0.4	20.4	4.4	8.6	-1.2	
F	-3.0	-1.5	0.0	-3.9	-0.2	13.4	2.0	3.3	2.3	-7.7	26.4	0.3	4.1	-0.2	3.4
G	3.2	4.8	6.4	15.1	9.8	6.8	3.8	5.5	9.8	2.1	13.5	12.8	7.5	-0.1	8.6
H	4.4	1.1	-2.2		5.9	12.3	3.2	3.3	4.9	-5.9	21.3	4.2	12.0	-0.2	2.8
I	1.2	3.9	2.2	2.9	1.9	4.6	0.9	2.5	6.0	-1.8	12.7	1.2		-0.2	4.1
K		2.0	7.9	8.1		25.8	1.6	3.7	14.4	4.7	24.1	9.3	-3.0	1.3	8.6
L	-4.2	-1.1	-3.5	3.1	-1.7	5.1	1.4	2.2	2.8	-2.3	1.9	0.5	-1.9		3.4
M	-1.5	-0.6	-4.7	-4.0	-3.2	4.0		-2.2	7.0	-6.0	-0.9	-4.6	-7.4	0.0	-2.4
N	-1.0	2.8	6.4	7.7	5.9	-0.4	2.3	5.3	4.7	-1.9		4.2	-1.8	-0.3	6.9
P	2.4	2.6	3.9	7.1	7.0	7.5	3.1	4.7	6.9	0.2	13.1	4.0	2.1	-0.2	5.9
Q	1.9	0.2	-2.2	1.1	4.4	3.1	0.5	0.8	8.7	-2.7	3.0	-0.5	-5.7	0.1	1.4
R	-14.9	2.2	-0.8	6.6	-7.4	16.6	3.4		10.9	3.4	5.4	4.0	-4.5	1.3	4.7
S	2.1	0.3	4.5	10.6	6.1	2.4	3.2	5.6	6.2		9.0	6.7	5.2	-0.3	6.5
T	0.9	0.1	2.3	5.1	7.3	5.0	2.3	4.6	4.9	0.1	8.2	4.3	3.9	-0.5	4.2
V	1.3	-2.1	2.1	7.8	3.9	4.2	2.0	4.8	5.9	0.4	5.6		1.4	-0.3	5.7
W	-0.5	-1.9	-7.8	8.9	3.6	39.6	2.9	3.6	-0.5	-13.1	36.8	-0.9	2.9	-4.7	-1.2
Y	-6.0		1.0	-3.2	4.9	37.4	1.7	2.0	4.4	-13.2	27.0	-0.6	-5.4	-0.2	3.7

FIG. 16A

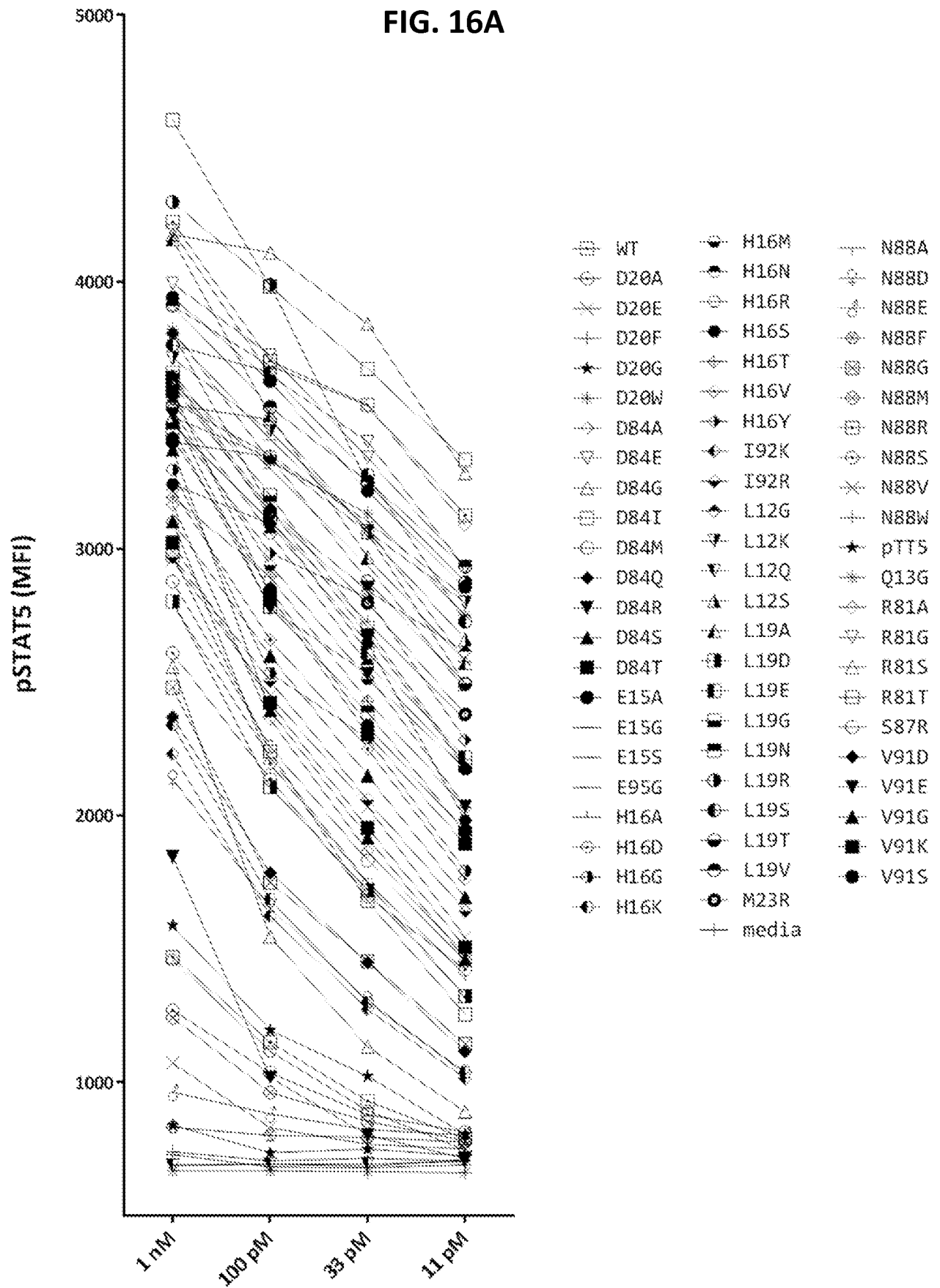


FIG. 16B

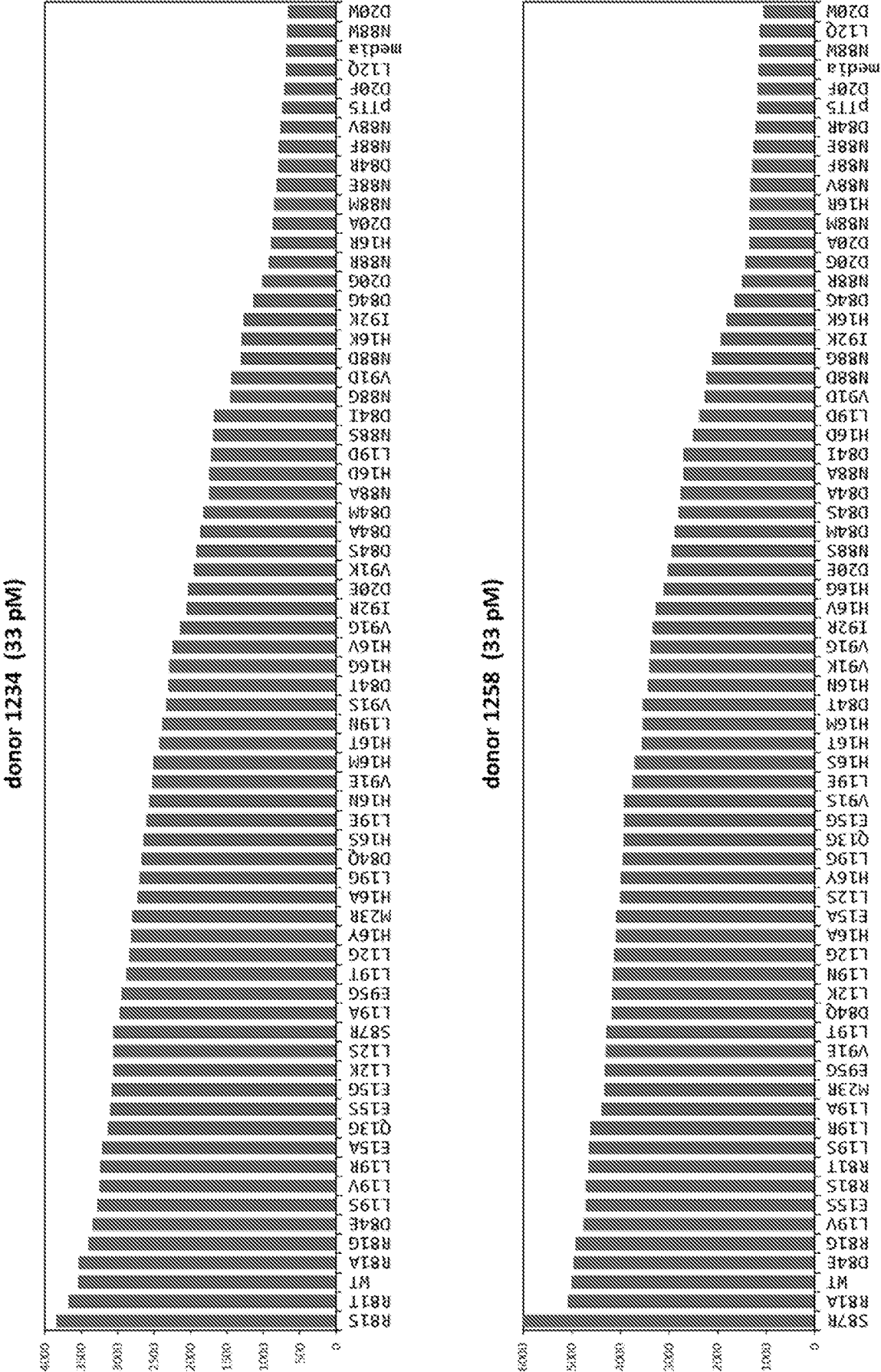


FIG. 18A

FOXP3⁻ CD4⁺ proliferation

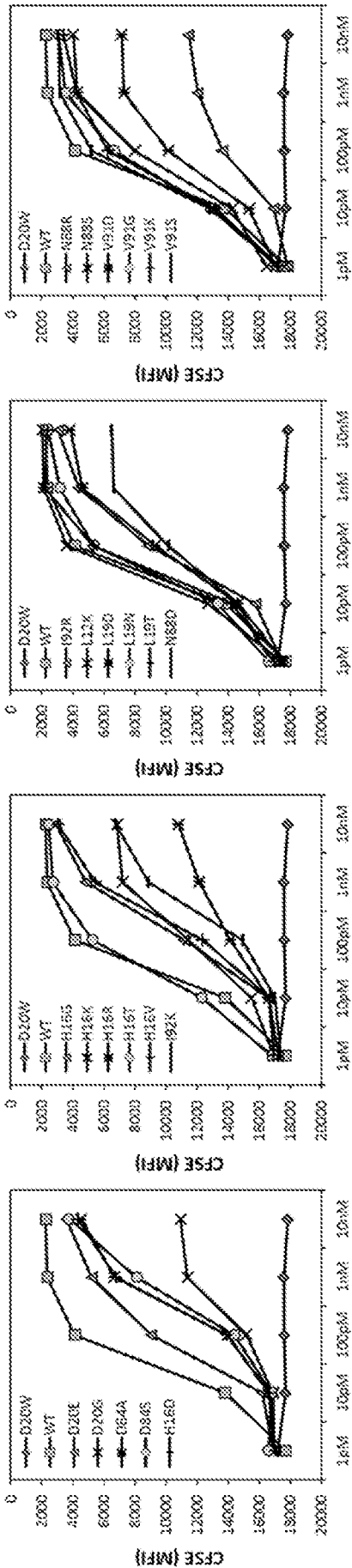


FIG. 18B

FOXP3⁻ CD8⁺ proliferation

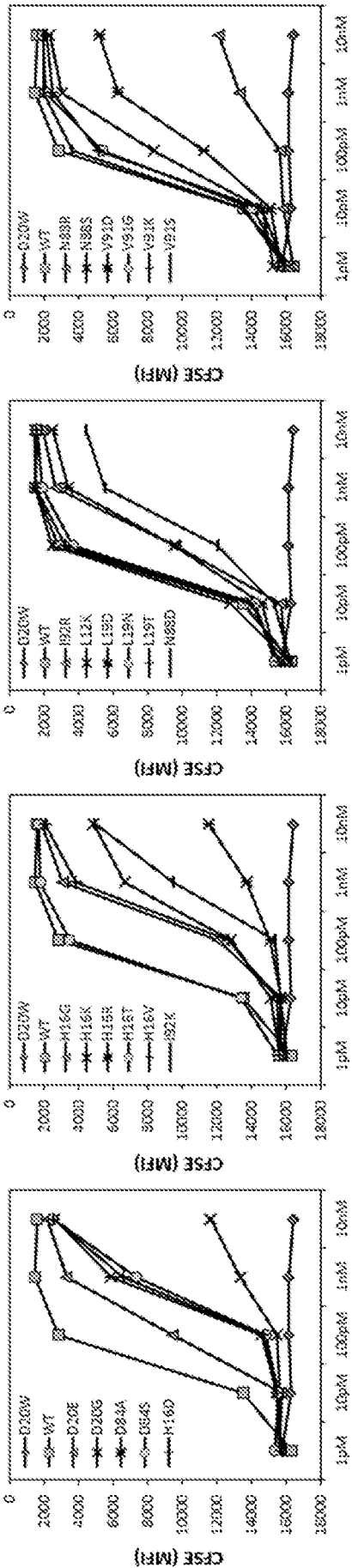


FIG. 18C
FOXP3⁺ HELIOS⁺ CD4⁺ proliferation

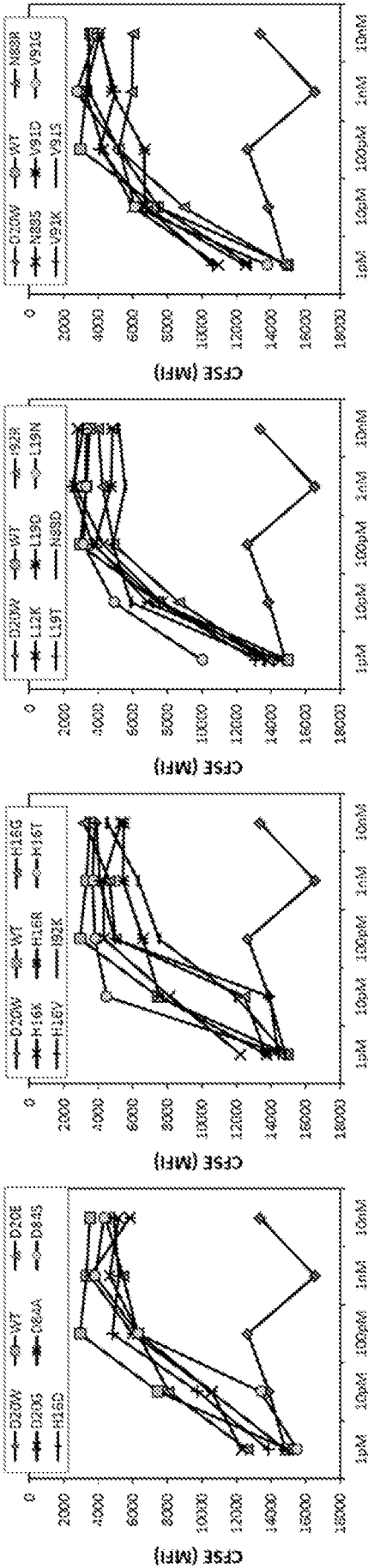


FIG. 18D

FOXP3 MFI in FOXP3⁺ HELIOS⁺ CD4⁺

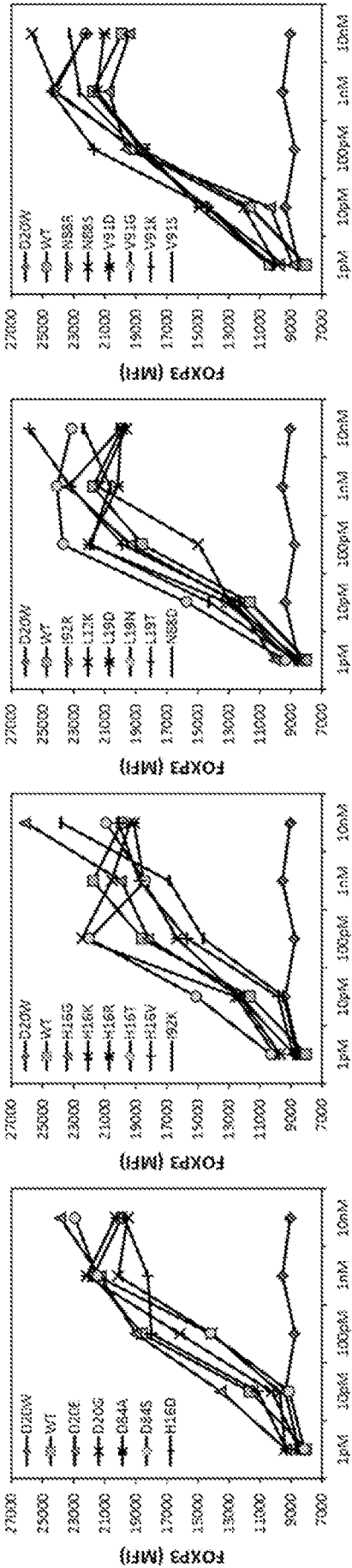


FIG. 19

NK proliferation

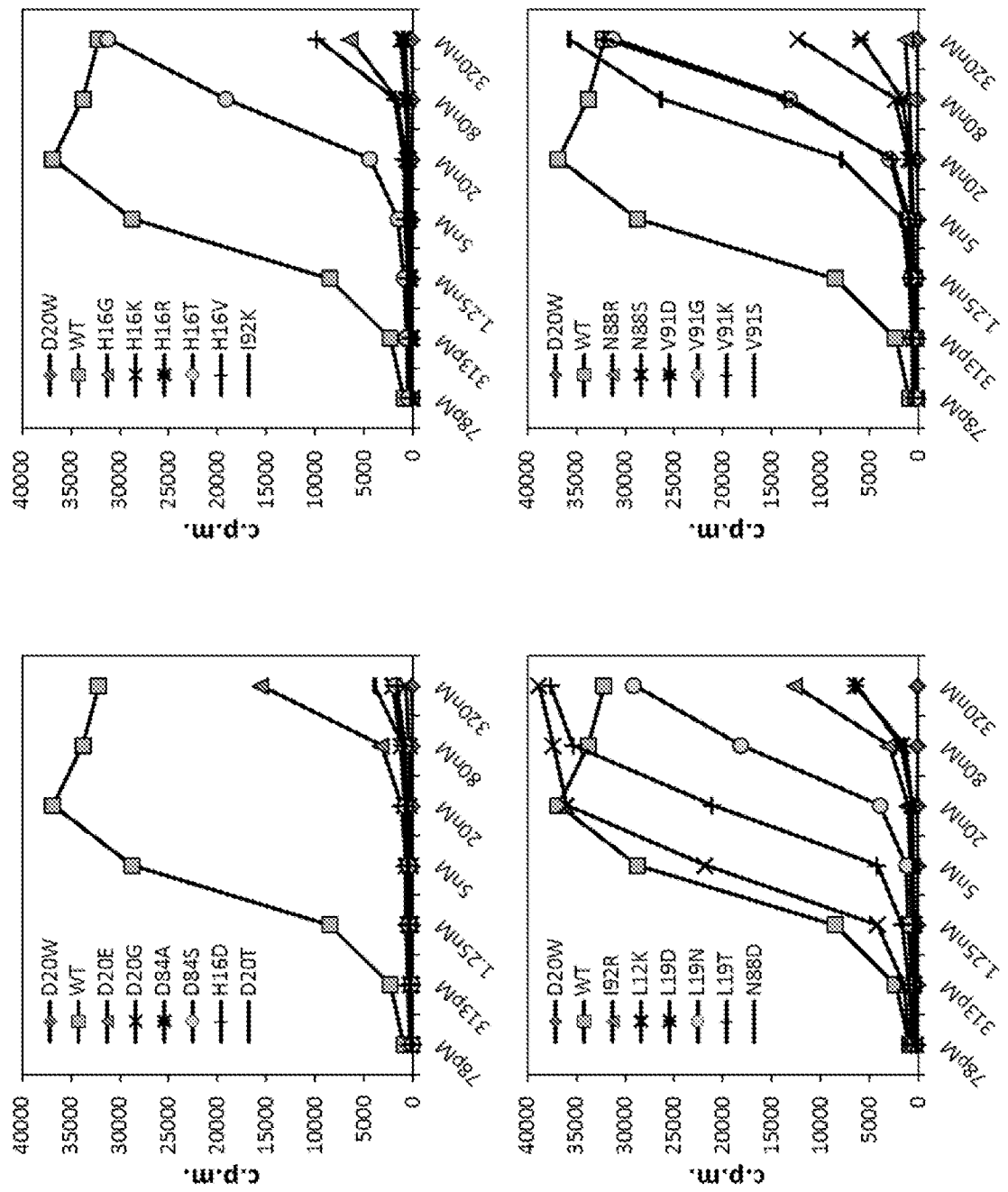
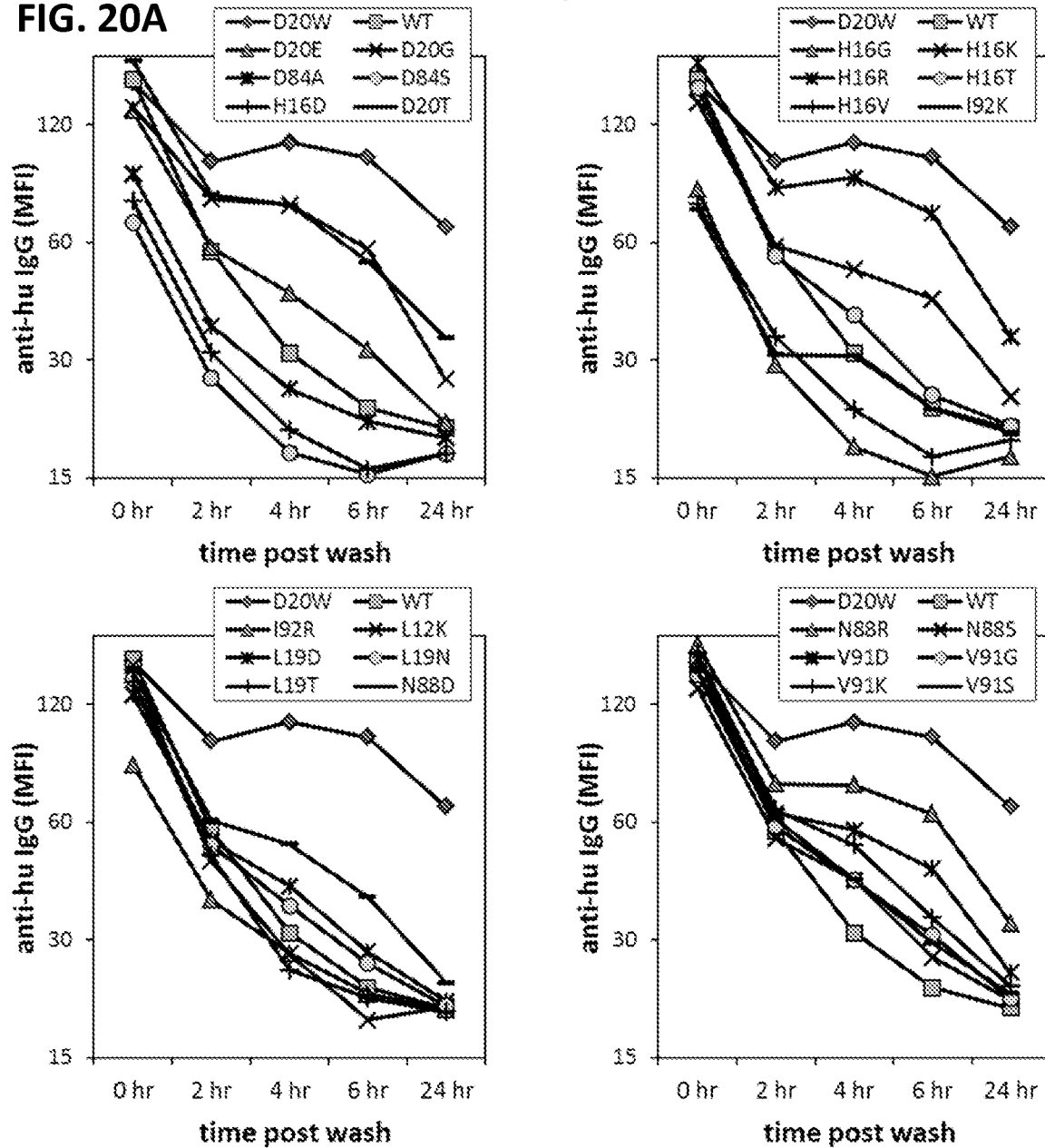


FIG. 20A**FIG. 20B**

Sum of 4, 6, 24 hr timepoints
Average of 2 donors

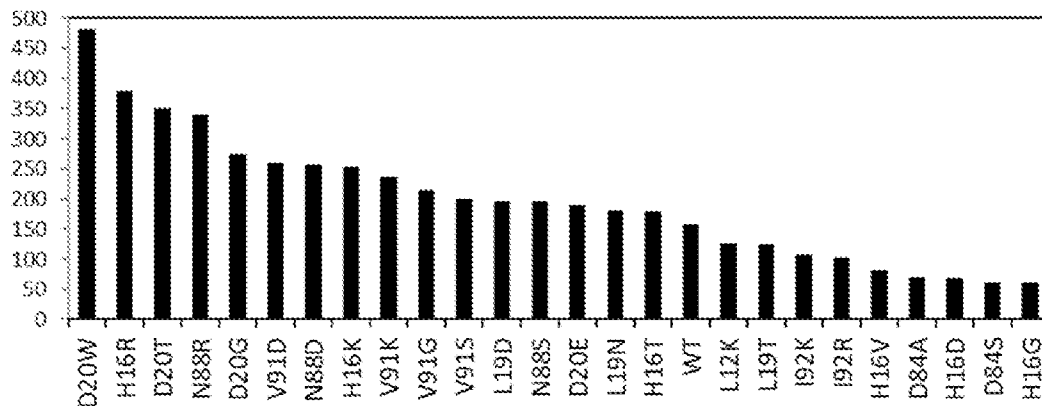


FIG. 21

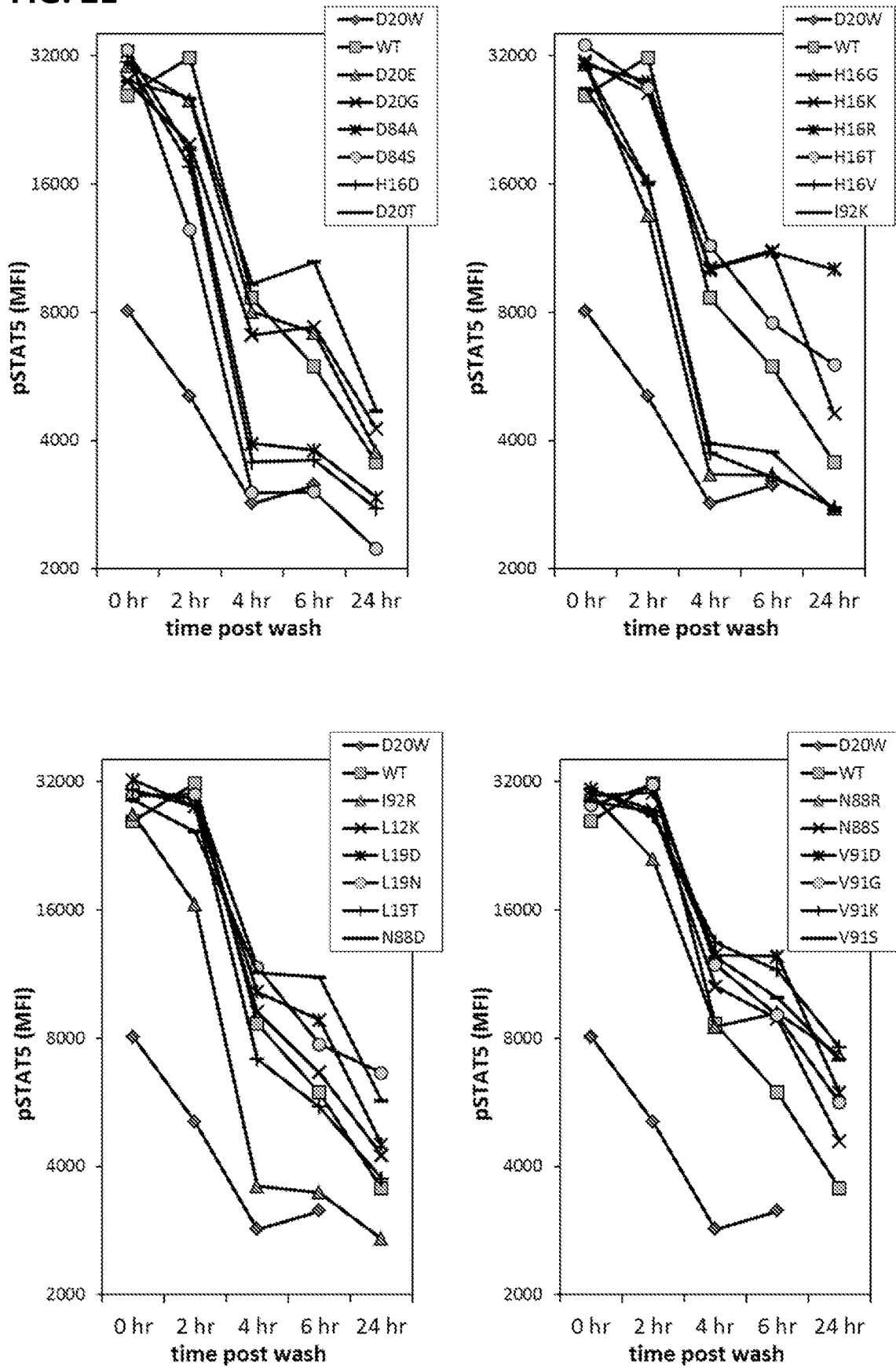


FIG. 22

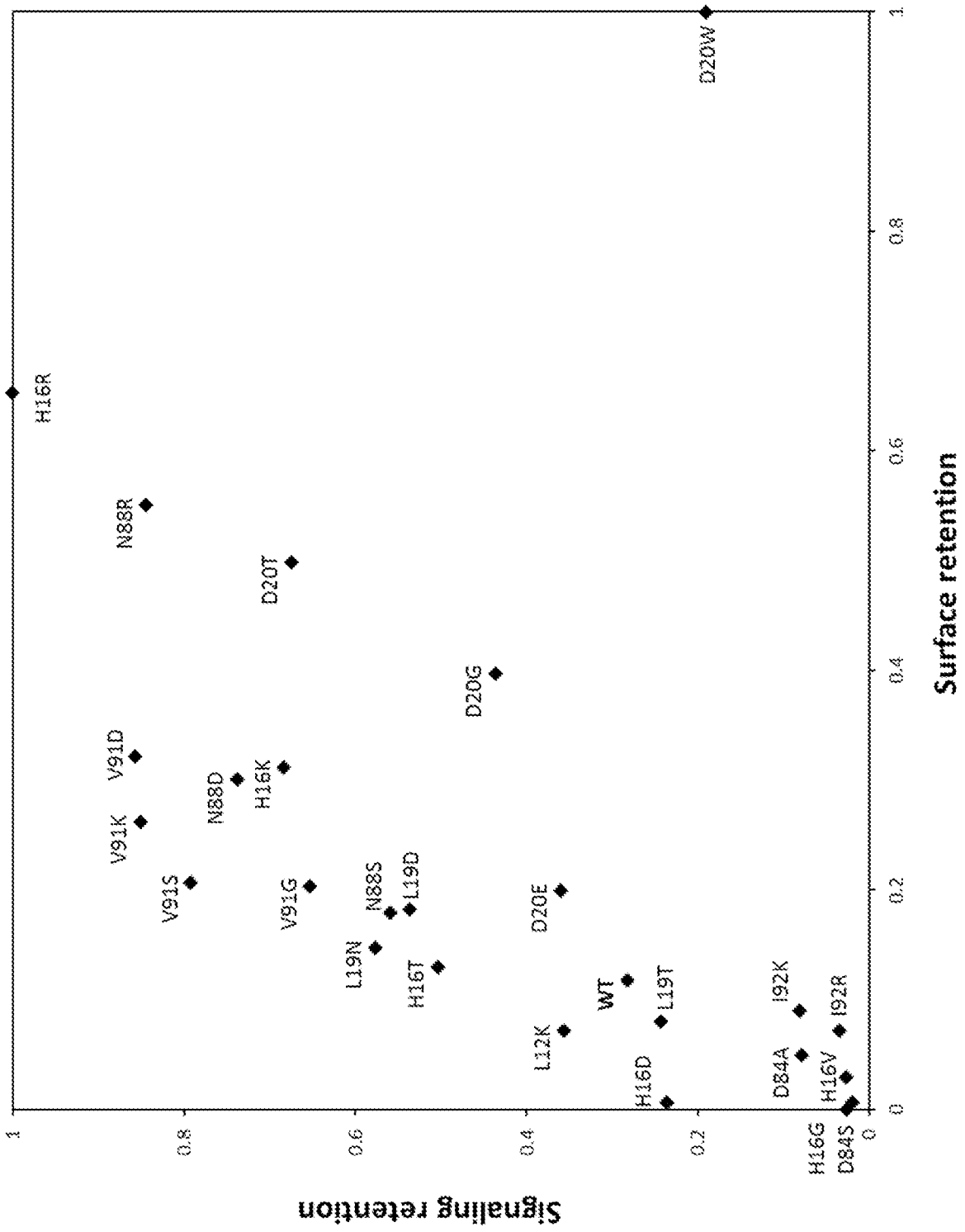


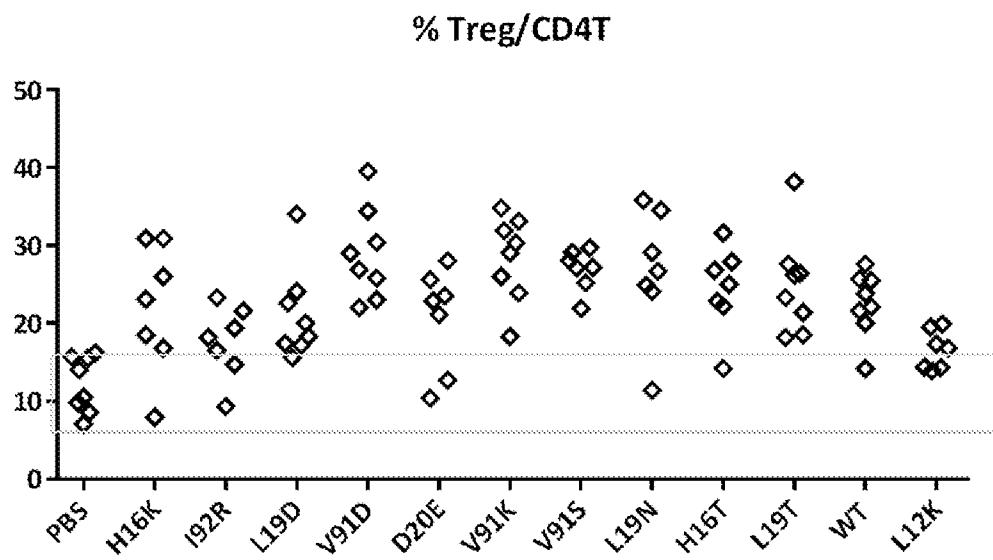
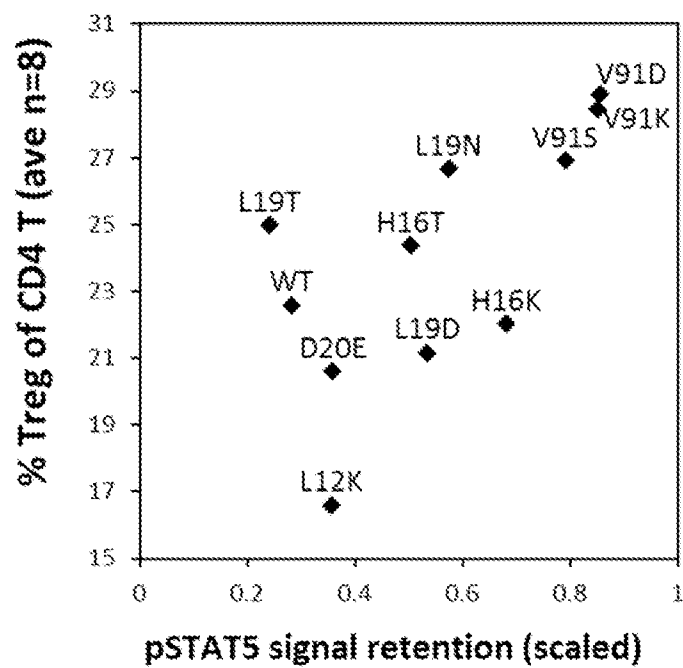
FIG. 23A**FIG. 23B**

FIG. 24A Fc(N297G_delK)::G4S::IL-2(L12G, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQGQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(L12K, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQKQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(L12Q, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQQQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(L12S, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQSQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24B IgG1Fc(N297G_delK)::G4S::hulL-2(Q13G, C125A)

MDMRVPAQLLGLLLLWLRGARC DKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
 GGSAPTSSSTKKTQLGLEHLLDLQMLNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(E15A, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPG GG
 GGSAPTSSSTKKTQLQLAHLDDLQMLNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(E15G, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
 GGSAPTSSSTKKTQLQLGHLLDLQMLNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(E15S, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
 GGSAPTSSSTKKTQLQLSHLLDLQMLNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24C IgG1Fc(N297G_delK)::G4S::hulL-2(H16A, C125A)

MDMRVPAQLLGLLLLWLRGARC DKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEALLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(H16D, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG GG
GGSAPTSSSTKKTQLQLEDLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(H16G, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEGLLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(H16K, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEKLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24D IgG1Fc(N297G_delK)::G4S::hulL-2(H16M, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEMLLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(H16N, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLENLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(H16R, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLERLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(H16S, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLESLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24E IgG1Fc(N297G_delK)::G4S::hulL-2(H16T, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLETLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(H16V, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEVLDDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(H16Y, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEYLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(L19A, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLADLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24F IgG1Fc(N297G_delK)::G4S::hulL-2(L19D, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(L19E, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(L19G, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(L19N, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24G IgG1Fc(N297G_delK)::G4S::hulL-2(L19R, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(L19S, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(L19T, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(L19V, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24H IgG1Fc(N297G_delK)::G4S::hulL-2(D20A, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLALQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(D20E, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLLELQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(D20F, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLLFQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(D20G, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLGLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24I IgG1Fc(N297G_delK)::G4S::hulL-2(D20W, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLWLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(M23R, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQRIINGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(R81A, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLAPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(R81G, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLGPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24J IgG1Fc(N297G_delK)::G4S::hulL-2(R81S, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLSPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(R81T, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLTPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(D84A, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPG GG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRALISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(D84E, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRELISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24K IgG1Fc(N297G_delK)::G4S::hulL-2(D84G, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRGLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(D84I, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRILISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(D84M, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRMLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(D84Q, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRQLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24L IgG1Fc(N297G_delK)::G4S::hulL-2(D84R, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRRLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(D84S, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRSLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(D84T, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRTLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(S87R, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLIRNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24M IgG1Fc(N297G_delK)::G4S::hulL-2(N88A, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISAINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(N88E, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISEINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(N88F, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISFINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(N88G, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISGINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24N IgG1Fc(N297G_delK)::G4S::hulL-2(N88M, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISMINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(N88S, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISSINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(N88V, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISVINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(N88W, C125A)

MDMRVPAQLLGLLLLWLRGARCDKHTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISWINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 240 IgG1Fc(N297G_delK)::G4S::hulL-2(V91D, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINDIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(V91E, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINEIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(V91G, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINGIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(V91S, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINSIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 24P IgG1Fc(N297G_delK)::G4S::hulL-2(I92K, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
*LDSDGSFFLYSKLTVDKSRWQQGNVSCFVSVMHEALHNHYTQKSLSLSPG***GG**
GG*SAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP*
KKATELKHLLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVKLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(I92R, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
*LDSDGSFFLYSKLTVDKSRWQQGNVSCFVSVMHEALHNHYTQKSLSLSPG***GG**
GG*SAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP*
KKATELKHLLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVRVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

IgG1Fc(N297G_delK)::G4S::hulL-2(E95G, C125A)

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
*LDSDGSFFLYSKLTVDKSRWQQGNVSCFVSVMHEALHNHYTQKSLSLSPG***GG**
GG*SAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP*
KKATELKHLLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLGLK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 25A

Fc(N297G_delK)::G4S::IL-2(L12G, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcacctcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttcctctatagcaagctcacctgggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaaGGGcaatt
ggagcacttgttgttgacttgcaaatgatcttgaatggtatcaataatt
acaagaatccaaagttgactcggatgttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hull-2(L12K, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcacctcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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gactccgacggctccttcttcctctatagcaagctcacctgggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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FIG. 25B

ggagcacttggttggttgacttgcaaatagatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatggttgaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(L12Q, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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 tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcgcagc
 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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 ggtggaagcgctccaacttctcctccactaagaagactcaaCAGcaatt
 ggagcacttggttggttgacttgcaaatagatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatggttgaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(L12S, C125A)

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 gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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FIG. 25C

acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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 gactccgacggctccttcttccctctatagcaagctcaccgtggacaagag
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 ggagcacttggtgttggtgacttgcaaagtatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(Q13G, C125A)

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 gacaccctcatgatctcccggaccctgaggtcacatgctggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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 gactccgacggctccttcttccctctatagcaagctcaccgtggacaagag
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
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 ctttgact

FIG. 25D

IgG1Fc(N297G_delK)::G4S::hulL-2(E15A, C125A)

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acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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agaaggctactgagttgaagcacttgcaatggttgaggaggaggttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
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cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
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IgG1Fc(N297G_delK)::G4S::hulL-2(E15G, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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FIG. 25E

acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(E15S, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctccggacccctgaggtcacatgctggtggtgga
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 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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 tacaccctgccccatcccgggaggagatgaccaagaaccaggtcagcct
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(H16A, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
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 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
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FIG. 25F

tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
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 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(H16D, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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 ctgaactcctggggggaccgctcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgctggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

FIG. 25G

IgG1Fc(N297G_delK)::G4S::hulL-2(H16G, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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IgG1Fc(N297G_delK)::G4S::hulL-2(H16K, C125A)

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FIG. 25H

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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
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IgG1Fc(N297G_delK)::G4S::hulL-2(H16M, C125A)

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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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IgG1Fc(N297G_delK)::G4S::hulL-2(H16N, C125A)

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FIG. 25I

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 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcaactgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(H16R, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
 ctgaactcctggggggaccgtcagtccttcttccccccaaaacccaag
 gacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
 tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcggcagc
 acgtaccgtgtggtcagcgtcctcacgctcctgcaccaggactggctgaa
 tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagCGCttgttggacttgcaaatgatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcaactgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

FIG. 25J

IgG1Fc(N297G_delK)::G4S::hulL-2(H16S, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagAGCttgttgttggtgacttgcaaatgatcttgatggtatcaataatt
acaagaatccaaagttgactcggatgttgacttttaagttttacatgcca
agaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggtcaatccaagaattttcacttgcc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcggtggatcacttttgctcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(H16T, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagACCTtgttgttggtgacttgcaaatgatcttgatggtatcaataatt

FIG. 25K

acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(H16V, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaaacccaag
 gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcggcagc
 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
 tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
 caggtggcagcaggggaacgtccttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
 ggagGTCttgttgttggtgacttgcaaatgatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(H16Y, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaaacccaag
 gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcggcagc
 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa

FIG. 25L

tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagTACttgttggacttgcaaatgatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatgttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(L19A, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
 ctgaactcctggggggaccgtcagtccttcttcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgcgtgggtgggga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcggcagc
 acgtaccgtgtggtcagcgtcctcaccgctcctgcaccaggactggctgaa
 tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagcacttggtgGCGgacttgcaaatgatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatgttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

FIG. 25M

IgG1Fc(N297G_delK)::G4S::hulL-2(L19D, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtggga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagcacttggttgATgacttgcaaatgatcttgatggatcaataatt
acaagaatccaaagttgactcggatggtgacttttaagttttacatgcca
agaaggctactgagttgaagcacttgcaatggttgaggaggaggttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(L19E, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtggga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagcacttggttgAGgacttgcaaatgatcttgatggatcaataatt

FIG. 25N

acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcggtttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(L19G, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaaaaccag
 gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
 tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
 ggagcacttggttGGGgacttgcaaagtatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcggtttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(L19N, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaaaaccag
 gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa

FIG. 250

tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagcacttggtgAATgacttgcaaatgatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcaactgc
 ggccacgggacttgatctccaatatcaatgtgatcggttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(L19R, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
 ctgaactcctggggggaccgtcagtccttcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
 tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcgcagc
 acgtaccgtgtggtcagcgtcctcacgctcctgcaccaggactggctgaa
 tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagcacttggtgCGGgacttgcaaatgatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcaactgc
 ggccacgggacttgatctccaatatcaatgtgatcggttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
 ctttgact

FIG. 25P

IgG1Fc(N297G_delK)::G4S::hulL-2(L19S, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtggga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagcacttggtgTCGgacttgcaaatgatcttgatggatcaataatt
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agaaggctactgagttgaagcacttgcaatggttgaggaggaggttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(L19T, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
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FIG. 25Q

acaagaatccaaagttgactcggatggttgactttttaagttttacatgccaa
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(L19V, C125A)

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 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctccggacccctgaggtcacatgctggtggtgga
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
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IgG1Fc(N297G_delK)::G4S::hulL-2(D20A, C125A)

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FIG. 25R

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IgG1Fc(N297G_delK)::G4S::hulL-2(D20E, C125A)

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FIG. 25S

IgG1Fc(N297G_delK)::G4S::hulL-2(D20F, C125A)

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IgG1Fc(N297G_delK)::G4S::hulL-2(D20G, C125A)

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FIG. 25T

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 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(D20W, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
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 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(M23R, C125A)

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FIG. 25U

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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(R81A, C125A)

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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 CGccacgggacttgatctccaatatcaatgtgatcggttttgagttgaag
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 ctttgact

FIG. 25V

IgG1Fc(N297G_delK)::G4S::hulL-2(R81G, C125A)

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IgG1Fc(N297G_delK)::G4S::hulL-2(R81S, C125A)

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FIG. 25W

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 CGccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
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IgG1Fc(N297G_delK)::G4S::hulL-2(R81T, C125A)

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IgG1Fc(N297G_delK)::G4S::hulL-2(D84A, C125A)

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FIG. 25X

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 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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 gactccgacggctccttcttctctatagcaagctcacccgtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagcacttggtggttgacttgcaaatgatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggtcaatccaagaattttcaactgc
 ggccacggGCCttgatctccaatatcaatgtgatcggttttgagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(D84E, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
 tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcgcagc
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 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
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 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcacccgtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggtcaatccaagaattttcaactgc
 ggccacggGAGttgatctccaatatcaatgtgatcggttttgagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

FIG. 25Y

IgG1Fc(N297G_delK)::G4S::hulL-2(D84G, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtggga
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tggaggtgcataatgccaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
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gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
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ggagcacttggtggttgacttgcaaatgatcttgatggatcaataatt
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(D84I, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtggga
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tggaggtgcataatgccaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
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gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
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tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
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FIG. 25Z

acaagaatccaaagttgactcggatgttgactttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcaactgc
 ggccacggATCttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(D84M, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgcccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
 acgtaccgtgtggtcagcgtcctcacctcctgcaccaggactggctgaa
 tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccc
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccagcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcacctgggacaagag
 caggtggcagcaggggaacgtccttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
 ggagcacttgttgttgacttgcaaatgatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatgttgactttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcaactgc
 ggccacggATGttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(D84Q, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgcccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
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FIG. 25AA

tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccc
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 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagcacttggtggttgacttgcaaatgatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacggCAGttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(D84R, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcgcagc
 acgtaccgtgtggtcagcgtcctcaccgctcctgcaccaggactggctgaa
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 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
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 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagcacttggtggttgacttgcaaatgatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacggCGCttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

FIG. 25BB

IgG1Fc(N297G_delK)::G4S::hulL-2(D84S, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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ggccacggAGCttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(D84T, C125A)

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ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccggaccctgaggtcacatgcgtgggtggga
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tggaggtgcataatgccaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
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gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
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FIG. 25CC

acaagaatccaaagttgactcggatggttgacttttaagttttacatgccaa
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcaacttgc
 ggccacggACCTtgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(S87R, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgcccagcac
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 gacaccctcatgatctcccggaccctgaggtcacatgctggtggtgga
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 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccagcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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 ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
 ggagcacttggtgttggtgacttgcaaatgatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatggttgacttttaagttttacatgccaa
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcaacttgc
 ggccacgggacttgatcCGCaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(N88A, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgcccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgctggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
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FIG. 25DD

tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 ggccacgggacttgatctccGCatcaatgtgatcggttttgagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(N88E, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggtcaatccaagaattttcacttgc
 ggccacgggacttgatctccGAGatcaatgtgatcggttttgagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

FIG. 25EE

IgG1Fc(N297G_delK)::G4S::hulL-2(N88F, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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agaaggctactgagttgaagcacttgcaatggttgaggaggaggttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccTTTatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(N88G, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagcacttggtggttgacttgcaaatgatcttgatggtatcaataatt

FIG. 25FF

acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcaactgc
 ggccacgggacttgatctccGGTatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(N88M, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgcccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
 tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccc
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccagcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
 ggagcacttggtgttggtgacttgcaaagtatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcaactgc
 ggccacgggacttgatctccATGatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(N88S, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa

FIG. 25GG

tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagcacttggtggttgacttgcaaatgatcttgatggatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaaatttggtcaatccaagaattttcacttgc
 ggccacgggacttgatctccAGTatcaatgtgatcggttttgagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(N88V, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcgcagc
 acgtaccgtgtggtcagcgtcctcacgctcctgcaccaggactggctgaa
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 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagcacttggtggttgacttgcaaatgatcttgatggatcaataatt
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaaatttggtcaatccaagaattttcacttgc
 ggccacgggacttgatctccGTatcaatgtgatcggttttgagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
 ctttgact

FIG. 25HH

IgG1Fc(N297G_delK)::G4S::hulL-2(N88W, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctgggtgggga
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tggaggtgcataatgccaagacaaagccgcgaggagcagtacggcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
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gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
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gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(V91D, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctgggtgggga
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tggaggtgcataatgccaagacaaagccgcgaggagcagtacggcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
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tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt

FIG. 25II

ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagcacttggtgttgacttgcaaatagatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatgttgacttttaagttttacatgcca
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatGATatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcggatggtatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(V91E, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
 ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
 gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
 acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
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 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggtc
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 ggagcacttggtgttgacttgcaaatagatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatgttgacttttaagttttacatgcca
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatGAGatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcggatggtatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(V91G, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
 ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
 gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg

FIG. 25JJ

tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
 acgtaccgtgtggtcagcgtcctcacgtcctgcaccaggactggctgaa
 tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccc
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccgggaggagatgaccaagaaccagggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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 gactccgacggctccttcttctctatagcaagctcacgtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
 ggagcacttggtggttgacttgcaaagtatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatGGGatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(V91S, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
 ctgaactcctggggggaccgtcagtccttcttctccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgcgtgggtgggga
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 tacaccctgcccccatcccgggaggagatgaccaagaaccagggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccagcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcacgtggacaagag
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 ggagcacttggtggttgacttgcaaagtatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatTCGatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat

FIG. 25KK

cgttgagtttttgaatcgggtggatcacttttgc tcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(I92K, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtggga
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tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
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agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgc tcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(I92R, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtggga
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tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg

FIG. 25LL

gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
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aagaaggctactgagttgaagcacttgcaatggttgaggaggaggttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgAGAgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(E95G, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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acgtaccgtgtggtcagcgtcctcacgctcctgcaccaggactggctgaa
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tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccagcctcccgtgctg
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aagaaggctactgagttgaagcacttgcaatggttgaggaggaggttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttgGGttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
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ctttgact

FIG. 26 Light Chain Variable Domain Amino Acid Sequences

	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4						
9D6	DIVMTQTPLSLPVT	PGEPASISCRSSQSLLDSE	GNNTYLDWYLQKPGQSPQLLIY	TL	SYRASGV	PD	RFSGTGS	DTFTLTKISRVEADVGVYYC	<u>MQRIEFPLT</u>	FGGGTKVEIKR			
2C3	EIVLTQSPGTL	SLSPGERATLS	RASQSFSSYLWYQQKPGQAPRLIIY	GASSRATGI	PD	RFSGSGSGTDFTLTISRLEPEDFAVYYC	<u>QQYGS</u>	SPLT	FGGGTKVEIKR				
14C9	DIVLTQTPLSSPVT	LGQPASISCRSSHHLI	HS	DGNTYLSWLQORPGQPPRLIIY	KISNRFS	GV	PD	RFSGTGTDFTLTKISRVEADVGVYYC	<u>MQTTQFPT</u>	FGGQTKVEIKR			
8B12	DIVMTQTPLSSPVT	LGQPASISCRSSQNLVQSD	GNNTYLSWLHQRPGQPPRLIIY	KISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYFC	<u>MQTTQFPT</u>	FGGQTKVEIKR				
16A4	DIVMTQTPLSSPVT	LGQPASISCRSSQILLVNSD	GNNTYLSWLHQRPGQPPRLIIY	KISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYYC	<u>MQTTQFPT</u>	FGGQTKVEIKR				
16E1	DIVMTQTPLSSPVT	LGQPASISCRSSQSLVRSD	GNNTYLSWLHQRPGQPPRLIIY	KISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYYC	<u>MQTTQFPT</u>	FGGQTKVEIKR				
13A1	DIVMTQTPLSSPVT	LGQPASISCRSSHSLIVHSD	GNNTYLSWLQORPGQPPRLIIY	KISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYYC	<u>MQTTQFPT</u>	FGGQTKVEIKR				
8F10	DIAMSQPLSLPVT	PGEPASMSCRSSQSLIHS	GNFN	YLDWYLQKPGQSPQVLI	H	LGSDRAS	GV	PD	RFSGSGTDFTLTKISRVEADVGIYYC	<u>MQALQTPLT</u>	FGGGTKVEIKR		
12C4	DIVMTQSPLSLPVT	PGEPASISCRSSQSLIHS	GNFN	YLDWFLQKPGQSPQLIY	LGSDRAS	GV	PD	RFSGSGTDFTLTKISRVEADVGVYYC	<u>MQALQTPLT</u>	FGGGTKVEIKR			
9B12	DIVMTQSPLSLPVT	PGEPASISCRSSQSLIHS	GNFN	YLDWYLQKPGQSPQLIY	LGSDRAS	GV	PD	RFSGSGTDFTLTKISRVEADVGVYYC	<u>MQALQTPLT</u>	FGGGTKVEIKR			
3H5	DIVMTQTPLSSPVT	LGQPASISCRSSQSLVNI	DGSTHLSWLQORPGQPPRLIIY	KISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYYC	<u>MQTTQFPT</u>	FGGQTRLEIKR				
18A6	EIVMTQTPLSSPVT	LGQPASISCRSSQSLIVQSD	GIITYLSWLQORPGQPPRLIIY	KISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYYC	<u>MQTTQFPT</u>	FGGQTKVEIKR				
10A6	DIVMTQTPLSSPVT	LGQPASISCRSSQSLVNSD	GNNTYINWLQORPGQPPRLIIY	KISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYYC	<u>MQATQFPT</u>	FGGQTKVEIKR				
10H7	DIVMTQTPLSSPVT	LGQPASISCRSSHNLVRSD	GNNTYLSWLQORPGQPPRLIIY	KISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYYC	<u>MQATQFPT</u>	FGGQTRLEIKR				
15A10	NIVMTQTPLSSPVT	LGQPASISCRSSQSLVQTD	GNNTYLSWLQORPGQPPRLIY	KISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYYC	<u>MQVTQFPT</u>	FGGQTRLEIKR				
12D2	DIVMTQTPLSSPVT	LGQPASISCRSSHNLIIHSD	GNNTYLSWLHQRPGQPPRLIIY	KISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYYC	<u>MQTSQFPT</u>	FGGGTKVEIKR				
9B10	DIVMTQTPLSSPVT	LGQPASISCRSSHNLIIHSD	GNNTYLSWLQORPGQPPRLIIY	YEISNRFS	GV	PD	RFSGSGAGTDFTLTKISRVEADVGVYYC	<u>MQVTQFPT</u>	FGGGTKVEIKR				
17D3	EIVLTQSPGTL	SLSPGERATLS	RASQSVSSSYLAWYQQKPGQAPRLIIY	GASSRATGI	PD	RFSGSGSGTDFTLTISRLEPEDFAVYYC	<u>QQYGS</u>	SPLT	FGGGTKVEIKR				
15G11	EIVLTQSPGTL	SLSPGERATLS	RASQSVSSRYLAWYQQKPGQAPRLIIH	GPFSRATGI	PD	RFSGSGSGTDFTLTISRLEPEDFAVYYC	<u>QQYGNSSIT</u>	FGGQTRLEIKR					
14D7	DIQMTQSPSSLSASV	GDRVTITCRASQTIS	SYLNWYQQKPGKAPKVLIIY	AASSFQSGVPS	RFSGSGSGTDFTLTIS	SLQPE	DFATYCC	<u>QQSHYIPRT</u>	FGGQTKVEIKR				
18F3	SYELTQPPSVSVSPG	QTARIACSGDALPRKF	FAYWYQQKSGQAPVLVISED	SRP	SGGIPERFSGSSSGT	MATLTISGAQ	VEADYYC	<u>FSTDSSANHRV</u>	FGGGTKLTVLG				
17D9	DIQMTQSPSSLSASV	GDRVTITCRASQDIR	NDLGWYQQKPGKAPKRLIY	AASSLQSGVPS	RFSGSGSGTEFTLTIGSLQ	PEDEFTYYC	<u>LQHN</u>	SYP	LTFGGGTKVEIKR				
21F8	DIQMTQSPSSLSASV	GDRVTITCRASQIGIR	DDLGWYQQKPGKAPKRLIY	IATSLQSGVPS	RFSGSGSGTEFTLTIS	SLQPE	DFATYCC	<u>LQHISYPWT</u>	FGGQTKVEIKR				
22B9	DIQMTQSPSSLSASV	GDRVTITCRASQDIR	DDLGWYQQKPGKAPKRLIY	VASSLQSGVPS	RFSGSGSGTEFTLTIS	SLQPE	DFATYCC	<u>LQHISYPWT</u>	FGGQTKVEIKR				
21D10	DIQMTQSPSSLSASV	GDRVTITCRASQDIR	DDLGWYQQKPGKAPKRLIY	VVSSLQSGVPS	RFSGSGSGTEFTLTIS	SLQPE	DFATYCC	<u>LQHNGYPWT</u>	FGGQTKVEIKR				
14A6	DIQMTQSPSSLSASV	GDRVTITCRASQIGI	DDLGWYQQKPGKAPORLIY	SASSLP	SGVPS	RFSGSGSGTEFTLTIS	SLQPE	DFATYCC	<u>LQHN</u>	SYP	RFSGGQTKLEIKR		
11D6	DIQMTQSPSSLSASV	GDRVTITCRASQDIE	HDLGWYQQKPGKAPKRLIY	AASLT	LP	SGVPS	RFSGSGSGTEFTLTIS	SLQPE	DFATYCC	<u>LQHN</u>	SYP	RFSGGQTKLEIKR	
10A9	DIVMTQTPLSLPVT	PGEPASISCR	STQSLI	DDGNTL	LDWYLQKPGQSPQLLIY	TL	SYRAS	GV	PD	RFSGSGSGTDFTLTKISRVEADVGVYYC	<u>MQRIEFPLT</u>	FGGGTKVEIKR	
16E3	DIVMTQTPLSLPVT	PGEPASISCRSSQSLI	DDGNTL	LDWYLQKPGQPPQLIIY	TL	SYRAS	GV	PD	RFSGSGSGTDFTLTKISRVEADVGVYYC	<u>MQRIEFPLT</u>	FGGGTKVEIKR		
14G7	DIQMTQSPSSLSASV	GDRVTITC	QASQDIS	NYLNWYQQKPGKAPKLLIY	DASNLET	GV	PS	RFSGSGSETDFTTISR	SLQPE	DIATYCC	<u>QQYENLPFT</u>	FGPGTKVDIKR	
5H3	SYELTQPPSVSVSPG	QTARITCSGDALPRQ	YAYWYQQKPGQAPMLVIY	KD	SER	PSGIPERFSGSSSGT	VTTLTISGAQ	VEADYYC	<u>QSADSSGTYV</u>	FGGGTKLTVLG			
2B12	SYELTQPPSVSVSPG	QTARITCSGDALPRK	YAYWYQQKSGQAPVLVIY	ED	SKR	PSGIPERFSGSSSGT	MATLTISGAQ	VEADYYC	<u>YSTDSSGNHYV</u>	FGTGKTVVLG			
26H7	DIQMTQSPSSLSASV	GDRVTITC	QASQDIS	NYLNWYQQKPGKAPKFLIY	DASNLET	GV	PS	RFSGSGSGTDFFFTISR	NLQPE	DIATYCC	<u>QQODNL</u>	PFT	FGPGTKVDIKR
26C12	DIQMTQSPSSLSASV	GDRVTITC	QASQDIS	NYLNWYQQKPGKAPKLLIY	DASNLET	GV	PS	RFSGSGSGTDFTTISR	SLQPE	DIATYCC	<u>QQYDNL</u>	PFT	FGPGTKVDIKR
2H11	SYELTQPPSVSVSPG	QTARITCSGDALPRK	FAYWYQQKSGQAPVLVIY	ED	KR	PSGIPERFSGSSSGT	MATLTISGAQ	VEADYYC	<u>YSTDRSGDHV</u>	FGGGTKLTVLG			
18H9	DIQMTQSPSSVASV	GDRVTITC	RASQIS	NWLWYQQKPGKPPKLLIY	AASSLQNGV	PS	RFSGSGSGTDFTLTISR	SLQTE	DE	DFATYCC	<u>QQALSFPWT</u>	FGPGTKVEV	

FIG. 27A**Light Chain Nucleic Acid Sequences**

9D6

GATATTGTGATGACCCAGACTCCACTCTCCTTGCCCGTCACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAGAGCCTCTTAGATAGTGATGAGGGAAACACCTATTTGGACTGGTACCTGCAGAAGCCAGGGCAGTCTCCACA
GCTCCTGATCTATACGCTTTCCTATCGGGCCTCTGGAGTCCCAGACAGGTTCA GTGGCACTGGGTCAGACACTGAT
TTCACACTGAAAATCAGCAGGGTGGAGGCTGAGGATGTTGGAGTTTATTACTGCATGCAACGTATAGAGTTTCCTC
TCACTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

2C3

GAAATTGTATTGACGCAGTCTCCAGGCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCA
GTCAGAGTTTTAGCAGCAGCTACTTAGTCTGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGG
TGCATCCAGCAGGGCCACTGGCATCCCAGACAGGTTGGTGGCAGTGGGTCTGGGACAGACTTCACTCTCACCAT
CAGCAGACTGGAGCCTGAAGATTTTGCAGTGTATTACTGTCAGCAGTATGGTAGCTCACCTCTCACTTTCGGCGGA
GGGACCAAGGTGGAGATCAAACGA

14C9

GATATTGTGCTGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCATCACCTCATACAGTGATGGAAACACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGTTCTCTGGGGTCCCAGACAGATTCACTGGCAGTGGGACAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGAAAGCTGGGGATGTCGGGGTTTATTACTGCATGCAAACCTACACAATTTCCGACGT
TCGGCCAAGGGACCAAGGTGGAAATCAAACGA

8B12

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCCAG
TCAAAACCTCGTTCAAAGTGATGGAAACACCTACTTGAGTTGGCTTCACCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGTTCTCTGGGGTCCCAGACAGATTCACTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGAAAGCTGAGGATGTCGGGGTTTATTTCTGCATGCAAACCTACACAATTTCCGACGTT
CGGCCAAGGGACCAAGGTGGAAATCAAACGA

FIG. 27B

16A4

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATTTCTGCAGGTCTAG
TCAAATCCTCGTAAACAGTGATGGAAACACCTACTTGAGTTGGCTTCACCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACCTACACAATTTCCGACGT
TCGGCCAAGGGACCAAGGTGGAAATCAAACGA

16E1

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAAAGCCTCGTACGCAGTGATGGAAACACCTACTTGAGTTGGCTTCACCAGAGGCCAGGCCAGCCTCCAAGACT
CCTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
ACACTGAAAATCAGCAGGGTGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACCTACACAATTTCCGACG
TTCGGCCAAGGGACCAAGGTGGAAATCAAACGA

13A1

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCACAGCCTCGTACACAGTGATGGACACACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACTC
CTACTTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACCTACACAATTTCCCACTTT
CGGCGGAGGGACCAAGGTGGAGATCAAACGA

8F10

GATATTGCGATGAGTCAGTCTCCACTCTCCCTGCCCGTCACCCCTGGAGAGCCGGCCTCCATGTCATGCAGGTCTA
GTCAGAGCCTCCTGCATAGTAATGGATTCAACTATTTGGATTGGTACCTGCAGAAGCCAGGGCAGTCTCCACAGGT
CCTGATCCATTTGGGTTCTGATCGGGCCTCCGGGGTCCCTGACAGGTTCAGTGGCAGTGGATCAGGCACAGATTTT
ACATTGAAAATCAGCAGAGTGGAGGCTGAGGATGTTGGAATTTATTACTGCATGCAAGCTCTACAAACTCCTCTCA
CTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

FIG. 27C

12C4

GATATTGTGATGACTCAGTCTCCACTCTCCCTGCCCGTCACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAGAGCCTCCTACATAGTAATGGATTCAACTATTTGGATTGGTTCCTGCAGAAGCCAGGACAGTCTCCACAGCCC
CTGATCTATTTGGGTTCTGATCGGGCCTCCGGGGTCCCTGACAGGTTCAGTGGCAGTGGATCAGGCACAGATTTTA
CACTGAAAATCAGCAGAGTGGAGGCTGAGGATGTTGGGGTTTATTACTGCATGCAAGCTCTACAAACTCCGCTCA
CTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

9B12

GATATTGTGATGACTCAGTCTCCACTCTCCCTGCCCGTCACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAGAGCCTCCTGCATAGTAATGGATTCAACTATTTGGATTGGTACCTGCAGAAGCCAGGGCAGTCTCCACAGCTC
CTGATCTATTTGGGTTCTGATCGGGCCTCCGGGGTCCCTGACAGGTTCAGTGGCAGTGGATCAGGCACAGATTTTA
CACTGAAAATCAGCAGAGTGGAGGCTGAGGATGTTGGGGTTTATTACTGCATGCAAGCTCTACAAACTCCGCTCA
CTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

3H5

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCCTGGACAGCCGGCCTCCATATCCTGCAGGTCCAG
TCAAAGCCTCGTAAACATTGATGGAAGTACCCACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACT
CCTAATTTATAAGATTTCTAACCGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTTC
ACACTGAAGATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACTACACAATTTCCCAACC
TTCGGCCAAGGGACACGACTGGAGATTAAACGA

18A6

GAAATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCCTGGACAGCCGGCCTCCATTTCTGCAGGTCTAG
TCAAAGCCTCGTTCAGAGTGATGGAATCACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACTACACAATTTCCGACGT
TCGGCCAAGGGACCAAGGTGGAAATCAAACGA

FIG. 27D

10A6

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAAAGCCTCGTAAACAGTGATGGAAACACCTACTTGAATTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACT
CCTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTT
ACACTGAAAATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAGCTACACAATTTCCGACG
TTCGGCCAAGGGACCAAGGTGGAAATCAAACGA

10H7

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCCAG
TCACAACCTCGTACGCAGTGATGGAAACACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACT
CCTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTT
ACACTGAAAATCAGCAGGGTGGGAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAGCTACACAATTTCCCACC
TTCGGCCAAGGGACGCGACTGGAGATTAAACGA

15A10

AATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAAAGCCTCGTACAAACTGATGGAAACACATATTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACC
CCTAATTTATAAGATTTCTAACCGGTTTTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTT
ACACTGAAAATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAGTAACACAATTTCCCACC
TTCGGCCAAGGGACACGACTGGAGATTAAACGA

12D2

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGTAGGTCTAG
TCATAACCTCATACACAGTGATGGAAACACCTACTTGAGTTGGCTTCACCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCGGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACTTCACAGTTTCCCACTTT
CGGCGGAGGGACCAAGGTGGAGATCAAACGA

FIG. 27E

9B10

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCATAACCTCCTACACAGTGATGGAAACACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATGAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCACTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAGTTACACAATTTCCCACTTT
CGGCGGCGGGACCAAGGTGGAGATCAAACGA

17D3

GAAATTGTGTTGACGCAGTCTCCAGGCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCA
GTCAGAGTGTTAGCAGCAGCTACTTAGCCTGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGG
TGCATCCAGCAGGGCCACTGGCATCCCAGACAGGTTCACTGGCAGTGGGTCTGGGACAGACTTCACTCTCACCAT
CAGCAGACTGGAGCCTGAAGATTTTGCAGTGTATTACTGTCAGCAGTATGGTAGCTCACCGCTCACTTTCGGCGGA
GGGACCAAGGTGGAGATCAAACGA

15G11

GAAATTGTGTTGACGCAGTCTCCAGGCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGTAGGGCCA
GTCAGAGTGTTAGCAGCAGGTACTTAGCCTGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCCATG
GTCCATTCAGCAGGGCCACTGGCATCCCAGACAGGTTCACTGGCAGTGGGTCTGGGACAGATTTCACTCTCACCAT
CAGCAGACTGGAGCCTGAAGATTTTGCAGTGTATTACTGTCAGCAGTATGGTAATTCATCGATCACCTTCGGCCAA
GGGACACGACTGGAGATTAAACGA

14D7

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGACCATTAGCAGTTATTTAAATTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGGTCCTGATCTATGCTGC
ATCCAGTTTCCAAAGTGGGGTCCCATCAAGGTTCACTGGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGC
AGTCTGCAACCTGAAGATTTTGCAACTTACTACTGTCAACAGAGTCACTATATCCCTCGGACGTTCCGGCCAAGGGA
CCAAGGTGGAAATCAAACGA

FIG. 27F

18F3

TCCTATGAGCTGACACAGCCACCCTCGGTGTCAGTGTCCCCAGGACAAACGGCCAGGATCGCCTGCTCTGGAGAT
GCATTGCCAAGAAAAATTTGCTTATTGGTACCAGCAGAAGTCAGGCCAGGCCCTGTGCTGGTCATCTCTGAGGACA
GCAGACGACCCTCCGGGATCCCTGAGAGATTCTCTGGCTCCAGCTCAGGGACAATGGCCACCTTGACTATCAGTG
GGGCCCAGGTGGAGGATGAAGCTGACTACTACTGTTTCTCAACAGACAGCAGTGCTAATCATAGGGTATTCGGCG
GAGGGACCAAGCTGACCGTCCTAGGT

17D9

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATTAGAAATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGCTG
CATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTAGCGGCAGTGGATCTGGGACAGAATTCCTCTCACAATCG
GCAGCCTGCAGCCTGAAGATTTTACAACCTTATTACTGTCTACAGCATAATAGTTACCCGCTCACTTTCGGCGGAGG
GACCAAGGTGGAGATCAAACGA

21F8

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGGCATTAGAGATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATATTG
CAACCAGTTTGCAAAGTGGGGTCCCATCAAGGTTAGCGGCAGTGGATCTGGGACAGAATTCCTCTCACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATATTAGTTACCCGTGGACGTTTCGGCCAAGG
GACCAAGGTGGAAATCAAACGA

22B9

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATCAGAGATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGTTG
CATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTAGCGGCAGTGGATCTGGGACAGAATTCCTCTCACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATATTAGTTACCCGTGGACGTTTCGGCCAAGG
GACCAAGGTGGAAATCAAACGA

FIG. 27G

21D10

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATTAGAGATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGTTG
TATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTGAGCGGCAGTGGATCTGGGACAGAGTTCACTCTCACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATAATGGTTACCCGTGGACGTTTCGGCCAAGG
GACCAAGGTGGAAATCAAACGA

14A6

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGGCATTGGAGATGATTTAGGCTGGTATCAGCAGAAAGCCAGGAAAAGCCCCTCAGCGCCTGATCTATTCTG
CATCCAGTTTGCCAAGTGGGGTCCCATCAAGGTTGAGCGGCAGTGGATCTGGGACAGAATTCCTCTCACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATAATAGTTACCCCTCGCAGTTTTGGCCAGGG
GACCAAGCTGGAGATCAGACGA

11D6

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATTGAACATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGCTG
CATCCACTTTGCCAAGTGGGGTCCCATCAAGGTTGAGCGGCAGTGGATCTGGGACAGAATTCCTCTCACAATCAG
CAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATAATAGTTTCCCTCGCAGTTTTGGCCAGGGGA
CCCAGCTGGAGATCAAACGA

10A9

GATATTGTGATGACCCAGACTCCACTCTCCCTGCCCCTGACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAC
TCAGAGCCTCTTGGATGGTATGATGGAAACACCCCTTTGGACTGGTACCTGCAGAAGCCAGGGCAGTCTCCACA
GCTCCTGATCTATACGCTTTCCTATCGGGCCTCTGGAGTCCAGACAGGTTCACTGGCAGTGGGTGAGGCACTGAT
TTCACACTGAAAATCAGCAGGGTGGAGGCTGAGGATGTTGGAGTTTATTACTGCATGCAACGTTTAGAGTTTCCTC
TCACTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

FIG. 27H

16E3

GACATTGTGATGACCCAGACTCCACTCTCCTTGCCCGTCACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAGAGCCTCTTGGATAGTGATGAAGGAAACACCTTTTTGGATTGGTACCTGCAGAAGCCAGGGCAGCCTCCACA
GCTCCTGATCTATACGCTTTCCTATCGGGCCTCTGGAGTCCCAGACAGGTTCACTGGCAGTGGGTGAGGCACTGAT
TTCACACTGAAAATCAGCAGGGTGGAGGCTGAGGATGTTGGAGTTTATTACTGCATGCAACGTATAGAGTTTCCTC
TCACTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

14G7

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCAGGCGA
GTCAGGACATTAGCAACTATTTAAATTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCTCCTGATCTACGATGC
ATCCAATTTGGAAACAGGGGTCCCATCAAGGTTCACTGGAAGTGGATCTGAGACAGATTTTACTTTCACCATCAGC
AGCCTGCAGCCTGAAGATATTGCAACATATTACTGTCAACAGTATGAAAATCTCCATTCACTTTCGGCCCTGGGAC
CAAAGTGGATATCAAACGA

5H3

TCCTATGAGCTGACACAGCCACCCTCGGTGTCACTGTCCCCAGGACAGACGGCCAGGATCACCTGCTCTGGAGAT
GCATTGCCAAGGCAATATGCTTATTGGTACCAGCAGAAGCCAGGCCAGGCCCTATGCTGGTGATATATAAAGAC
AGTGAGAGGCCCTCAGGGATCCCTGAGCGATTCTCTGGCTCCAGCTCAGGGACAACAGTCACGTTGACCATCAGT
GGAGTCCAGGCAGAAGACGAGGCTGACTATTACTGTCAATCAGCAGACAGCAGTGGTACTTATGTGGTATTCGGC
GGAGGGACCAAGCTGACCGTCCTAGGT

2B12

TCCTATGAGCTGACACAGCCACCCTCGGTGTCACTGTCCCCAGGACAAACGGCCAGGATCACCTGCTCTGGAGAT
GCATTGCCAAGAAAAATATGCTTATTGGTACCAGCAGAAGTCAGGCCAGGCCCTGTGCTGGTCATCTATGAGGAC
AGCAAACGACCCTCCGGGATCCCTGAGAGATTCTCTGGCTCCAGCTCAGGGACAATGGCCACCTTGACTATCAGTG
GGGCCCAGGTGGAGGACGAAGCTGACTACTACTGTTACTCAACAGACAGCAGTGGTAATCATTATGTCTTCGGAA
CTGGGACCAAGGTCACCGTCCTAGGT

FIG. 27I

26H7

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCAGGCGA
GTCAGGACATTAGCAACTATTTAAATTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGTTCCTGATCTACGATGC
ATCCAATTTGGAAACAGGGGTCCCATCAAGGTTCAGTGGAAGTGGATCTGGGACAGATTTTTTTTTCACCATCAGC
AACCTGCAGCCTGAAGATATTGCAACATATTTCTGTCAACAGGATGATAATCTCCCATTCACTTTCGGCCCTGGGAC
CAAAGTGGATATCAAACGA

26C12

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCAGGCGA
GTCAGGACATTAGCAACTATTTAAATTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAACTCCTGATCTACGATGC
ATCCAATTTGGAAACAGGGGTCCCATCAAGGTTCAGTGGAAGTGGATCTGGGACAGATTTTACTTTCACCATCAGC
AGCCTGCAGCCTGAAGATATTGCAACATTTTACTGTCAACAGTATGATAATCTCCCATTCACTTTCGGCCCTGGGAC
CAAAGTGGATATCAAACGA

2H11

TCCTATGAGCTGACACAGCCACCCTCGGTGTCAGTGTCCCCAGGACAAACGGCCAGGATCACCTGCTCTGGAGAT
GCATTGCCAAGAAAAATTTGCTTATTGGTACCAGCAGAAGTCAGGCCAGGCCCCTGTGCTGGTCATCTATGAGGAC
AGGAAACGACCCTCCGGGATCCCTGAGAGATTCTCTGGCTCCAGCTCAGGGACAATGGCCACCTTGACTATCAGT
GGGGCCCAGGTGGAGGATGAAGCTGACTACTACTGTTACTCAACAGACCGCAGTGGTGATCATGTGGTATTCGGC
GGAGGGACCAAGCTGACCGTCCTAGGT

18H9

GACATCCAGATGACCCAGTCTCCATCTTCCGTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGTCGGGCGA
GTCAGGGTATTAGCAACTGGTTAGTCTGGTATCAGCAGAAACCAGGGAAACCCCCTAAACTCCTGATCTATGCTGC
ATCCAGTTTGCAAATGGGGTCCCATCAAGATTCAGCGGCAGTGGATCTGGGACAGATTTCACTCTACCATCAGC
AGCCTGCAGACTGAAGATTTTGCAACTTACTATTGTCAACAGGCTCTCAGTTTCCCGTGGACGTTTCGGCCAGGGA
CCAAGGTGGAAGTCAAACGA

FIG. 28 Heavy Chain Variable Domain Amino Acid Sequences

	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4
9D6	EVQLVQSGAEVKKP	GESLKISCKGSGYRFT	SYWIG WVRQMPGKGLIEWMGI	IHPGSD TRISPSFQ	QVTTISADKSI	STAYLQWSSLKASD	TAIYYCFR QGRSF YYGYMDVWGQGT
2C3	EVQLVQSGAEVKKP	GESLKISCKGSGYRFT	SYWIG WVRQMPGKGLIEWMGI	IIPGSD STRISPSFQ	QVTTISADKSI	SAAYLQWSSLKASD	TAIYYCFR QVAVG MLDYYWGQGT
14C9	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	IYGMH WVRQAPGKGLIEWVT	VIWYDGS NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR EDFDS HYGMDVWGQGT
8B12	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR EEW FGGEADYGM
16A4	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR DDW FGGEADYGM
16E1	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVT	VIWYDGS NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR EDW LGEADYGM
13A1	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR EEW ELEDYGM
8F10	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NKIYVDSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR GAV AGTGRDYY
12C4	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NKIYHGD	SVKGRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR GAV AGTGRDYY
9B12	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR GT VAGTGRDYY
3H5	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SFGMH WVRQAPGKGLIEWVA	VIWFDGS NKIYVDSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR DD FWSDY
18A6	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR DD LYSSAMP
10A6	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYD IHWVRQAPGKGLIEWVA	VIWYDGS IKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR DGE QNRG
10H7	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYD IHWVRQAPGKGLIEWVA	VIWYDGS IKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR DGE QNLAF
15A10	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	TYGMH WVRQAPDMGLEWVA	VIWYDGS NKIYADSVK	GRFTISR	DKNTLYLQWSSLRAED	TAIYYCFR DNW GSDA
12D2	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	TYAMH WVRQAPGKGLIEWVA	VIWYDGI NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR GS YDSSG
9B10	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYAMH WVRQAPGKGLIEWVA	VIWYDGI NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR GS YDSSG
17D3	QVQLVESGGGLV	KGSLRLSCAASGFTFS	DYMS WIRQAPGKGLIEWVS	YISSSGS IIFYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR RIS ITP
15G11	QVTLKESGPV	LVKPTETITLCTVSGFSL	NARMGVS WIRQPPGKALEWLA	HIFSNDEKSY STSLKS	RLTITISK	QWLTMTNMDP	VTATYYCVR IPRW LQPP
14D7	QVQLVESGP	GLVKPSQTTLSLCTVSGGSI	SGGYIWN WIRQHPGKGLEWIG	IYIYSG NTDYNP	SLKS	RVTTISVDT	SKNQFSLKLSVIA
18F3	QVQLVESGP	GLVKPSQTTLSLCTVSGGSI	SGGYIYS WIRQHPGKGLEWIG	IYIYSG NTDYNP	SLKS	RVTTISVDT	SKNQFSLKLSVIA
17D9	QVQLVESGP	GLVKPSETLSLCTVSGGVS	SGGYIYS WIRQPPGKGLEWIG	INTYIYSG NTYKP	SLKS	RVTTISVDT	SKNQFSLKLSVIA
21F8	QVQLVQSGAEVKKP	PGASVKVCKASGYTF	NYD INWVRQATGQGLEWMG	WMNP NSGNTGYA	QKQFG	RVMTFRNTSI	STAYMELSSLR
22B9	QVQLVQSGAEVKKP	PGASVKVCKASGYTF	NYD INWVRQATGQGLEWMG	WMNP NSGNTGYA	QKQFG	RVMTFRNTSI	STAYMELSSLR
21D10	QVQLVQSGAEVKKP	PGASVKVCKASGYRFT	NYD INWVRQATGQGLEWMG	WMNP NSGNTGYA	QKQFG	RVMTFRNTSI	STAYMELSSLR
14A6	QVQLVQSGAEVKKP	PGASVKVCKASGYTF	TYD INWVRQATGQGLEWMG	WMNP NSGNTGYA	QKQFG	RVMTFRNTSI	STAYMELSSLR
11D6	QVQLVQSGAEVKKP	PGASVKVCKASGYTF	NYD INWVRQATGQGLEWMG	WMNP NSGNTGYA	QKQFG	RVMTFRNTSI	STAYMELSSLR
10A9	EVQLVQSGAEVKKP	PGESLKISCKGSGYSFT	QWIG WVRQMPGKGLIEWMGI	IIPGSD STRISPSFQ	QVTTISADKSI	STAYLQWSSLKASD	TAIYYCFR QGR SHYHY
16E3	EVQLVQSGAEVKKP	PGESLKISCKGSGYSFT	NYWIG WVRQMPGKGLIEWMGI	TIYPGSD STRISPSFQ	QVTTISADKSI	STAYLQWSSLKASD	TAIYYCFR QGR SHYHY
14G7	EVQLVQSGAEVKKP	PGESLKISCKGSGYSFT	NYWIG WVRQMPGKGLIEWMGI	TIYPGSD STRISPSFQ	QVTTISADKSI	STAYLQWSSLKASD	TAIYYCFR HRG GESYIY
5H3	EVQLVQSGAEVKKP	PGESLKISCKGSGYSFT	TYWIG WVRQMPGKGLIEWMGI	IIPGSD STRISPSFQ	QVTTISADKSI	STAYLQWSSLKASD	TAIYYCFR EGF GESIHY
2B12	EVQLVQSGAEVKKP	PGESLKISCKGSGYNFT	TYWIG WVRQMPGKGLIEWMGI	IIPGSD STRISPSFQ	QVTTISADKSI	STAYLQWSSLKASD	TAIYYCFR HGG WSG
26H7	EVQLVQSGAEVKKP	PGESLKISCKGSGYRFT	NYWIG WVRQMPGKGLIEWMGI	TIYPGSD STRISPSFQ	QVTTISADKSI	STAYLQWSSLKASD	TAIYYCFR HGG YSGRS
26C12	EVQLVQSGAEVKKP	PGESLKISCKGSGYRFT	SYWIG WVRQMPGKGLIEWMGI	IIPGSD STRISPSFQ	QVTTISADKSI	STAYLQWSSLKASD	TAIYYCFR IY YGLD
2H11	EVQLVQSGAEVKKP	PGESLKISCKGSGYNFT	TYWIG WVRQMPGKGLIEWMGI	IIPGSD STRISPSFQ	QVTTISADKSI	STAYLQWSSLKASD	TAIYYCFR DTG YFDY
18H9	QVQLVESGGVVQ	PGRSLRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NKIYVDSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR PG SDIYFY

FIG. 28 Heavy Chain Variable Domain Amino Acid Sequences

	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	
9D6	EVQLVQSGAEVKKPESLI	SKCKSGYRFT	SYWIG WVRQMPGKGLIEWMGI	IHPGDS DRISPSFQ	QVVTISADKSI	STAYLQWSL	KASDTAIYYCTR QGRSFYY YGM DMV WGQGT	
2C3	EVQLVQSGAEVKKPESLI	SKCKSGYRFT	SYWIG WVRQMPGKGLIEWMGI	IIPGDS DRISPSFQ	QVVTISADKSI	SAAYLQWSL	KASDTAMYYCAR QOVAG MLDYYWGQGT	
14C9	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	IYGMH WVRQAPGKGLIEWVT	VIWYDGS NEYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR EDFDSHY GMDVWGQGT	
8B12	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NEYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR EEWFG GEADYGM DMV WGQGT	
16A4	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NEYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR DDWF GEADYGM DMV WGQGT	
16E1	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SNYGMH WVRQAPGKGLIEWVT	VIWNDGS NEYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR EDWL GEADYGM DMV WGQGT	
13A1	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NKIYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR EEWE LEDYGM DMV WGQGT	
8F10	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYGMY WVRQAPGKGLIEWVA	VIWYDGS NKIYVDSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR GAVAG TGRDYYYYGM DMV WGQGT	
12C4	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYGMY WVRQAPGKGLIEWVA	VIWYDGS NKIYHGD	SVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCA KGAVAG TGRDYYYYGM DMV WGQGT
9B12	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYGMY WVRQAPGKGLIEWVA	VIWYDGS NKIYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYH CAKGTVAG TGRDYYYYGM DMV WGQGT	
3H5	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SFGMH WVRQAPGKGLIEWVA	VIWFDGS NKIYVDSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR DDFWS DYPPFDYWGQGT	
18A6	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VI SDDGSNKIYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR DLYSS AMPFDYWGQGT	
10A6	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYDIH WVRQAPGKGLIEWVA	VIWNDGS IKIYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR DGEQ NRGFDYWGQGT	
10H7	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYDIH WVRQAPGKGLIEWVA	VIWYDGS IKIYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR DQEQ WLAFDYWGQGT	
15A10	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	FTYGMH WVRQAPDMGLEWVA	VIWYDGS NKIYADSVK	GRRFTISR	D	SKNTLYLQ	MNSLRAEDTAVYYCAR DNWGS DAFDIWGQGT
12D2	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	FTYAMH WVRQAPGKGLIEWVA	VIWYDGI NKIYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR GSYYD SSGYYFG DE FDYWGQGT	
9B10	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYAMH WVRQAPGKGLIEWVA	VIWYDGI NKIYADSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR GSYYD SSGYYFG DE FDYWGQGT	
17D3	QVQLVSGGGLVK	PGGSRLSCAASGFTFS	DYVMS WIRQAPGKGLIEWVS	YI SSSGSIIFAYADSVK	GRRFTISR	MSRDNAKNSLYLQ	MNSLRAEDTAVYYCVR RISIT PFDYWGQGT	
15G11	QVTLKESGPV	LVKPTETITL	CTVSGFSL	NARMGVS WIRQPPGKALEWLAHIF	SNDEK SYSTSLKS	RRLTISK	SDTSQWLTMTNMDPVD	TYYCVR IPRWLQ PPYYYYGM DMV WGQGT
14D7	QVQLVESGPG	LVKPSQTTSL	CTVSGGSI	SGGY YNNWIRQHPGKGLEWIG	YI YSGSTNYNP	SLKS	RVTTISVDT	SKNQFSLKLSVIAADTAVYYCAR DWGR DAFDIWGQGT
18F3	QVQLVESGPG	LVKPSQTTSL	CTVSGGSI	SGGY YWSWIRQHPGKGLEWIG	YI YSGSTNYNP	SLKS	RVTTISVDT	SKNQFSLKLSVIAADTAVYYCAR EGRF GEGLSGYYFDYWGQGT
17D9	QVQLVESGPG	LVKPSQTTSL	CTVSGGVS	SGGY YWSWIRQPPGKGLEWIG	YI NTYSGSTNYK	PKSLKS	RVTTISVDT	SKNQFSLKLSVIAADTAVYYCGR DRGR AVGPFDYWGQGT
21F8	QVQLVQSGAEVKKPGASVK	CKASGYTF	NYDIN WVRQATGQGLEWMG	WMNP NSGNTGYAQK	FQGRVMT	PRNTSIS	STAYMELSSLR	SED
22B9	QVQLVQSGAEVKKPGASVK	CKASGYTF	NYDIN WVRQATGQGLEWMG	WMNP NSGNTGYAQK	FQGRVMT	PRNTSIS	STAYMELSSLR	SED
21D10	QVQLVQSGAEVKKPGASVK	CKASGYRFT	NYDIN WVRQATGQGLEWMG	WMNP NSGNTGYAQK	FQGRVMT	PRNTSIS	STAYMELSSLR	SED
14A6	QVQLVQSGAEVKKPGASVK	CKASGYTF	TYDIN WVRQATGQGLEWMG	WMNP NSGNTGYAQK	FQGRVMT	PRNTSIS	STAYMELSSLR	SED
11D6	QVQLVQSGAEVKKPGASVK	CKASGYTF	NYDIN WVRQATGQGLEWMG	WMNP NSGNTGYAQK	FQGRVMT	PRNTSIS	STAYMELSSLR	SED
10A9	EVQLVQSGAEVKKPESLI	SKCKSGYSFT	QWIG WVRQMPGKGLIEWMGI	IIPGDS DRISPSFQ	QVVTISADKSI	STAYLQWSL	KASDTAMYYCAR QGRS HYHYGM DMV WGQGT	
16E3	EVQLVQSGAEVKKPESLI	SKCKSGYSFT	NYWIG WVRQMPGKGLIEWMGI	TI YPGDSDRISPSFQ	QVTF	PSADKSI	STAYLQWSL	KASDTAMYYCAR QGRS YYYFGMDVWGQGT
14G7	EVQLVQSGAEVKKPESLI	SKCKSGYSFT	NYWIG WVRQMPGKGLIEWMGI	TI YPGDSDRISPSFQ	QVVTISADKSI	STAYLQWSL	KASDTAMYYCAR HRGGR SYIYGM DMV WGQGT	
5H3	EVQLVQSGAEVKKPESLI	SKCKSGYSFT	NYWIG WVRQMPGKGLIEWMGI	TI YPGDSDRISPSFQ	QVVTISADKSI	STAYLQWSL	KASDTAMYYCAR EGFGE SIHYGLD V WGQGT	
2B12	EVQLVQSGAEVKKPESLI	SKCKSGYNFT	NYWIG WVRQMPGKGLIEWMGI	TI YPGDSDRISPSFQ	QVVTISADKSI	STAYLQWSL	KASDTAMYYCAR HGGW SGWGM DMV WGQGT	
26H7	EVQLVQSGAEVKKPESLI	SKCKSGYRFT	NYWIG WVRQMPGKGLIEWMGI	TI YPGDSDRISPSFQ	QVVTISADKSI	STAYLQWSL	KASDTAMYYCAR HGGY SGRSYYGM DMV WGQGT	
26C12	EVQLVQSGAEVKKPESLI	SKCKSGYRFT	SYWIG WVRQMPGKGLIEWMGI	IIPGDS DRISPSFQ	QVVTISADKSI	ITAYLQWSL	KASDTAIYYCAR HGHG SSSGRTYYYG LDV WGQGT	
2H11	EVQLVQSGAEVKKPESLI	SKCKSGYNFT	TYWIG WVRQMPGKGLIEWMGI	TI YPGDSDRISPSFQ	QVVTISADKSI	STAYLQWSL	KASDTAIYYCAR DTGY FDYWGQGT	
18H9	QVQLVSGGGVVQ	PGRSRLSCAASGFTFS	SYGMH WVRQAPGKGLIEWVA	VIWYDGS NKIYVDSVK	GRRFTISR	DNSKNTLYLQ	MNSLRAEDTAVYYCAR PGSD YIFYYGM DMV WGQGT	

FIG. 29A**Heavy Chain Nucleic Acid Sequences**

9D6

GAGGTGCAGTTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCCATCCTGGTGA CTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACTGCCATATATTACTGTACGAGACAGGGT
AGAAGCTTCTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

2C3

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTATCCTGGTGA CTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCAGCGCCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACAACAA
GTGGCTGGTATGTTGGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

14C9

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTATTTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGGCTGGAGTGGGTGACAGT
TATATGGTATGATGGAAGTAATGAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGAGGA
CTTCGACTCCCACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

8B12

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGGCTGGAGTGGGTGGCAG
TTATATGGTATGATGGAAGTAATGAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
CAAGAACACGCTGTATCTACAAATGCACAGCCTGAGAGCCGAGGACACGGCTGTGTATTATTGTGCGAGAGAAGA
ATGGTTCGGGGAGGCGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 29B

16A4

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCAGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAG
TTATATGGTATGATGGAAGTAATGAATATTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTC
CAAGAACACGCTGTTTCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGATGA
TTGGTTCGGGGAGGCGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

16E1

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAACTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGACAGT
TATATGGAATGATGGAAGTAATGAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTTTCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGAAGAT
TGGCTCGGGGAGGCGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

13A1

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAG
TTATATGGTATGATGGAAGTAATAAACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTC
CAAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGAAG
AGTGGGAGCTAGAGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

8F10

CAGGTGCAGTTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGTTATGGCATGTACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAAGTAATAAACTATGTAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGGAGC
AGTGGCTGGTACGGGACGGGACTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCT
CCTCA

FIG. 29C

12C4

CAGGTGCAGTTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACGTTACAGTAGTTATGGCATGTACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAG
TTATATGGTATGATGGAAGTAATAAATACCATGGAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTC
CAAGAATACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAAAGGAGC
AGTGGCTGGTACGGGACGGGACTACTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCT
CCTCA

9B12

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCAGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTTAGTAGTTATGGCATGTACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAAGTAATAAAAACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAATACGTTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATCACTGTGCGAAAGGAACA
GTGGCTGGTACGGGACGGGACTACTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCT
TCA

3H5

CAGGTGCAACTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTTTGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATTTGGTTTGATGGAAGTAATAAATACTATGTAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAATACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGCGGGACGAT
TTTTGGAGTGATTATCCTTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

18A6

CAGGTGCAACTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCCTCT
GGATTCACCTTCAGGAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATCAGATGATGGAAGTAATAAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGACCTGAGGACACGGCTGTGTATTACTGTGCGAGAGATCTC
TATAGCAGTGCCTGGCCCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

FIG. 29D

10A6

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTAGCTATGACATACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGAATGATGGAAGTATTAAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGACGG
GGAGCAGTGGCGGGGCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

10H7

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTAGCTATGACATACTGGGTCCGTGAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAAGTATTAAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGATCAG
GAGCAGTGGCTGGCCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

15A10

CAGGTGCAGTTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTACCTATGGCATGCACTGGGTCCGCCAGGCTCCAGACATGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAAGTAATAAATACTATGCAGACTCTGTGAAGGGCCGATTACCATCTCCAGAGACATTTCC
AAGAACACGCTGTATCTGGAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGACAA
CTGGGGATCCGATGCTTTTGATATCTGGGGCCAAGGGACAATGGTCACCGTCTCTTCA

12D2

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTACCTATGCCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAATTAATAAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGGGAG
TACTATGATAGTAGTGTTATTACTACGGGGAGGACTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCC
TCA

FIG. 29E

9B10

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTATGCCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATCTGGTATGATGGAATTAATAAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGGGAG
TACTATGATAGTAGTGGTTATTACTTCGGGGAGGACTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCC
TCA

17D3

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTCAAGCCTGGAGGGTCCCTGAGACTCTCCTGTGCAGCCTCT
GGATTCACCTTCAGTGACTACTACATGAGCTGGATCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTTTCATAC
ATTAGTAGTAGTGGTAGTATCATTTTTTACGCAGACTCTGTGAAGGGCCGATTCACCATGTCCAGGGACAACGCCA
AGAACTCACTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCCGTGTATTATTGTGTGAGAAGGATTA
GTATAACCCCTTTTACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

15G11

CAGGTACACCTGAAGGAGTCTGGTCCTGTGCTGGTGAAACCCACAGAGACCCTCACGCTGACCTGCACCGTCTCTG
GGTTCTCACTCAGCAATGCTAGAATGGGTGTGAGCTGGATCCGTGAGCCCCAGGGAAGGCCCTGGAGTGGCTTG
CACACATTTTTTCGAATGACGAAAAATCCTACAGCACATCTCTGAAGAGCAGGCTCACCATCTCCAAGGACACCTCC
AAAAGCCAGGTGGTCCTTACCATGACCAACATGGACCCTGTGGACACAGCCACATATTACTGTGTACGGATACCGA
GATGGCTACAACCCCCCTACTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

14D7

CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTCACAGACCCTGTCCCTCACCTGCACTGTCTCT
GGTGGCTCCATCAGCAGTGGTGGTTACTACTGGAAGTGGATCCGCCAGCACCCAGGGAAGGGCCTGGAGTGGAT
TGGGTACATCTATTACAGTGGGAACACCCACTACAACCCGTCCCTCAAGAGTCGAGTTACCATATCAGTAGACAG
TCTAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGATTGCCGCGGACACGGCCGTGTATTACTGTGCGAGAGACT
GGGGACGTGATGCTTTTGATATCTGGGGCCAAGGGACAATGGTCACCGTCTCTTCA

FIG. 29F

18F3

CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTCACAGACCCTGTCCCTCACCTGCACTGTCTCG
GGTGGCTCCATCAGCAGTGGTGGTTACTACTGGAGCTGGATCCGCCAGCACCCAGGGAAGGGCCTGGAGTGGAT
TGGGTACATCTATTATAGTGGGAGCACCGACTACAACCCGTCCCTCAAGAGTCGAGGTATCATATCAGGAGACAC
GTCTAAGAACCAGTTCTCCCTGAAGCTGAACTCTGTGACTGCCGCGGACACGGCCGTGTATTACTGTGCGAGAGA
GGGGAGGTTGCGGGAGTTAGGCTCCTACTACTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

17D9

CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTCGGAGACCCTGTCCCTCACCTGCACTGTCTCT
GGTGGCTCCGTCAAGCAGTGGTGGTTACTACTGGAGCTGGATCCGGCAGCCCCCAGGGAAGGGACTGGAGTGGAT
TGGGAATACCTATTACAGTGGGAGCACCAACTACAAACCCCTCCCTCAAGAGTCGAGTCACCATATCAGTAGACACG
TCCAAGAACCAGTTCTCCCTGAAGCTGAGTTCTGTGACCGCTGCGGACACGGCCGTGTATTACTGTGGGAGAGAC
CGGGGTAGAGCAGTGGGTCCCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

21F8

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTCACCAATTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAACAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAAGTA
GGCAGTGGCTGGTACTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

22B9

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTCACCAATTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAACAGTGGTAACACAGGCTATGTACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAAGTA
GGCAGTGGCTGGTACTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

FIG. 29G

21D10

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACAGGTTACACAGTTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGAT
GGATGAACCCAAACAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACC
TCCATAAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAAGT
AGGCAGTGGCTGGTACTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

14A6

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTACCACTTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAACAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAGCACAGCCTACATGGAGCTGAGCAGCCTAAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAGGCC
GGCAGTGGCTGGGCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

11D6

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTACCAATTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAATAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAACACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAGGCC
GGCAGTGGCTGGGCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

10A9

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGCTTTACCAGCCAGTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAGGCCTGGAGTGGATGGGGA
TCATCTTTCCTGGTGA CTCTGATACCAGATACAGCCCGTCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGCGACAGGGT
AGAAGTTACCACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 29H

16E3

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACGGCTTTACCAACTACTGGATCGGCTGGGTGCGCCAGATGCCCGGAAAGGCCTGGAGTGGATGGGGA
CCATCTATCCTGGTGA CTCTGATACCAGATACAGTCCGTCCTTCCAAGGCCAGGTCACCTTCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACAGGGT
AGAAGTTACTACTTTCGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

14G7

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGCTTTACCGACTACTGGATCGGCTGGGTGCGCCAGATGCCCGGAAAGGCCTGGAATGGATGGGGA
TCATCTATCCTTATGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCTTCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCGGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACATCGG
GGGGGGAGGTCTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

5H3

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGCTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGAAAGGCCTAGAATGGATGGGGA
TCATCTATCCTGGTGA CTCTGATACCACATACAGCCCGTCCTTCCAAGGCCAAGTCACCATCTCAGCCGACAAGTCC
ATCAACACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGAGAGGGT
TTCGGGGAGTCTATTCACTACGGTTTGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

2B12

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAATTTTACCAACTACTGGATCGGCTGGGTGCGCCAGATGTCCGGGAAAGGCCTGGAGTGGATGGGAA
TCATCTATCCTGGTGA CTCTGAAACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTC
CATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACATGG
AGGGGGATGGAGTGGTTGGGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 29I

26H7

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAACTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTATCCTGGTGACTCTGATACCAAATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCAGTACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACATGGT
GGATATAGTGGCCGTTCTACTACTACGGTATGGACGTCTGGGGCCAGGGGACCGCGGTACCGTCTCCTCA

26C12

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTTTCTGGTGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCACCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATCTATTACTGTGCGGACATGGG
CATGGCAGCTCGTCCGGGCGGACCTACTACTACGGTTTGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCC
TCA

2H11

GAGGTGCAGCTGGTGCAATCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAACTTTACCACCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTATCCTGGTGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATTTAGCCGACAAGTCC
ATCAACACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACAGCCATTTATTACTGTGCGAGAGACACA
GGATACTTTGACTACTGGGGCCAGGGCACCTGGTCACCGTCTCCTCA

18H9

CAGGTGCAGTTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGCCTGGAGTGGGTGGCAGT
TATCTGGTATGATGGAAGTAATAAATTCTATGTAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGACCCGG
GTCCGATTACTACTTCTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 30

