

phospho-STAT5
(MFI)

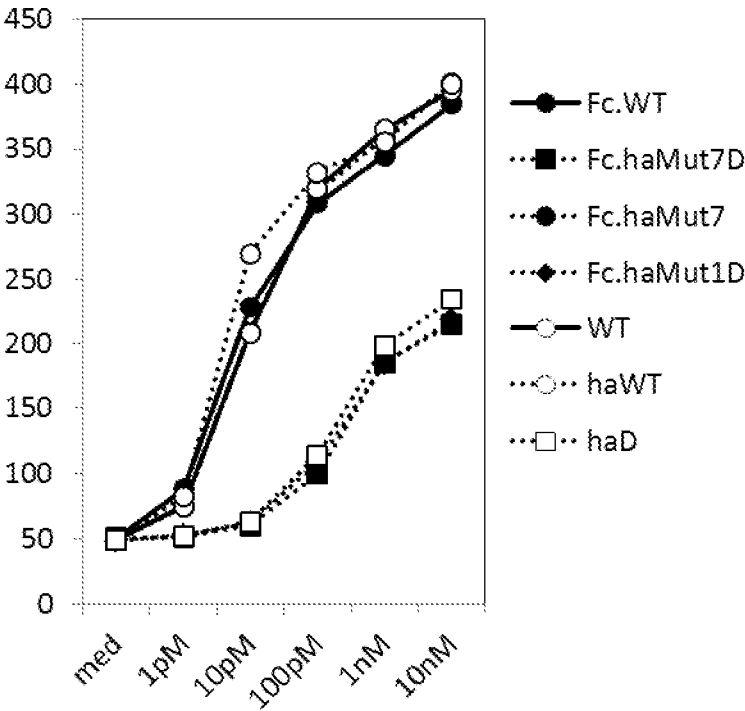


FIG. 1

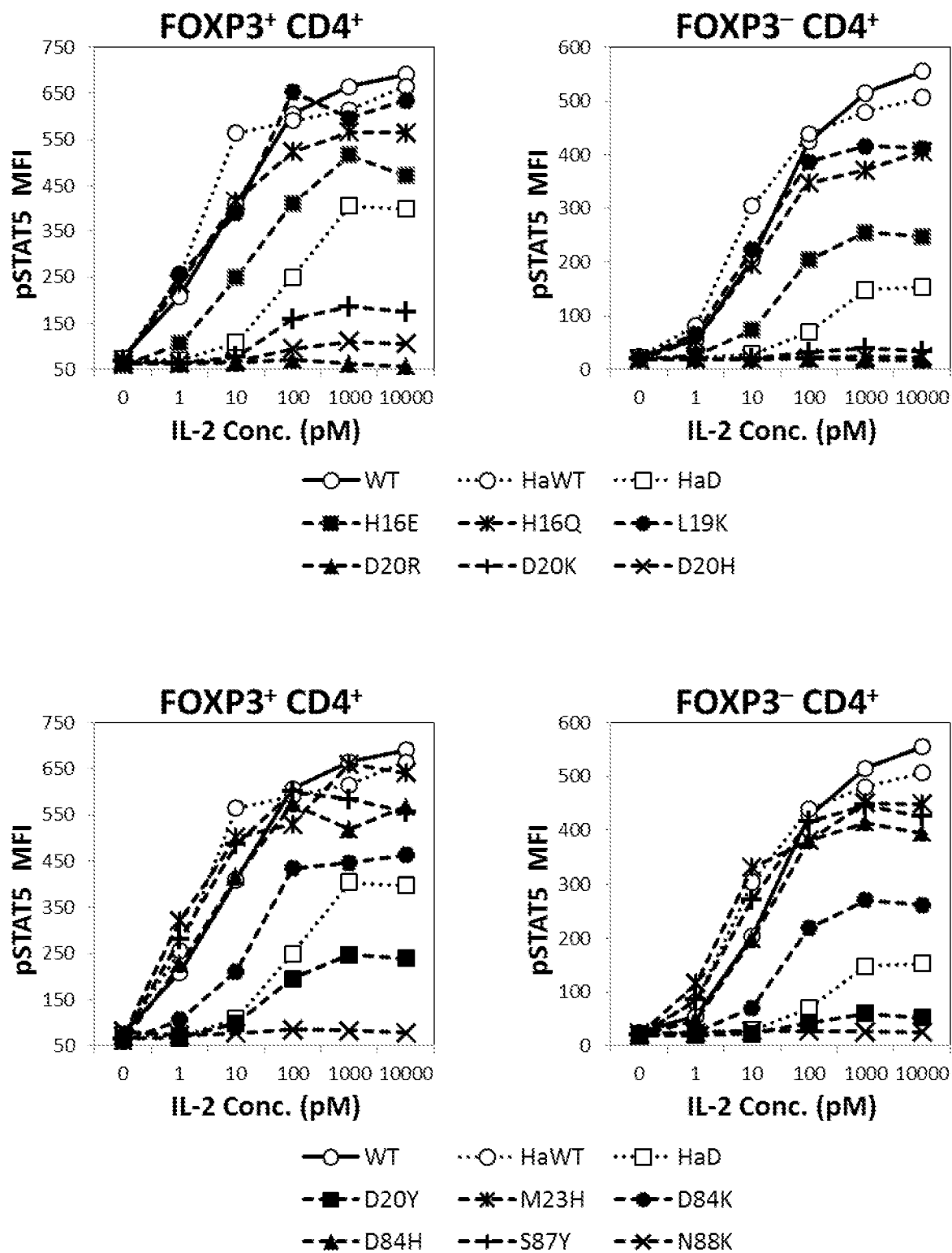
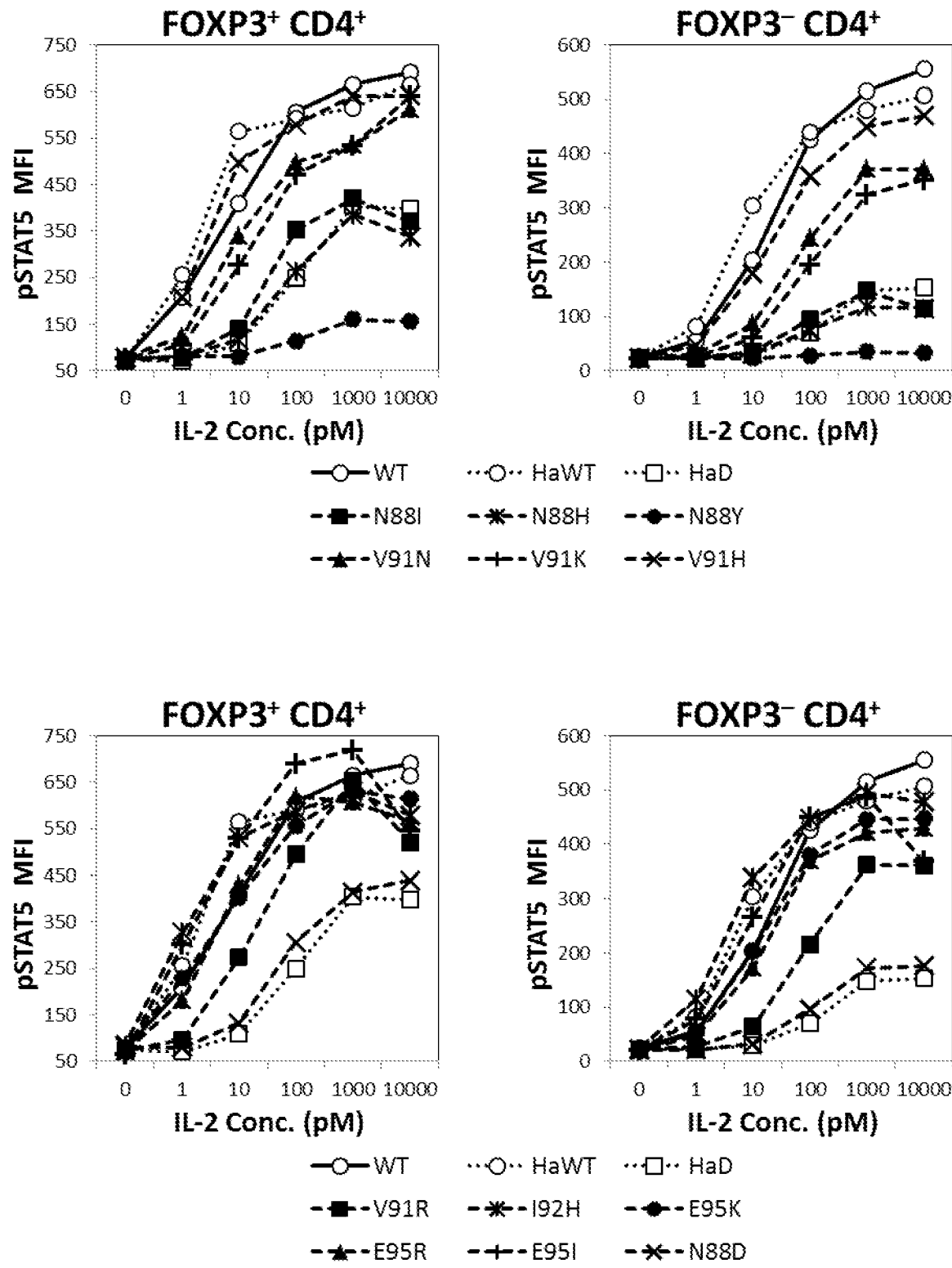


FIG. 2B



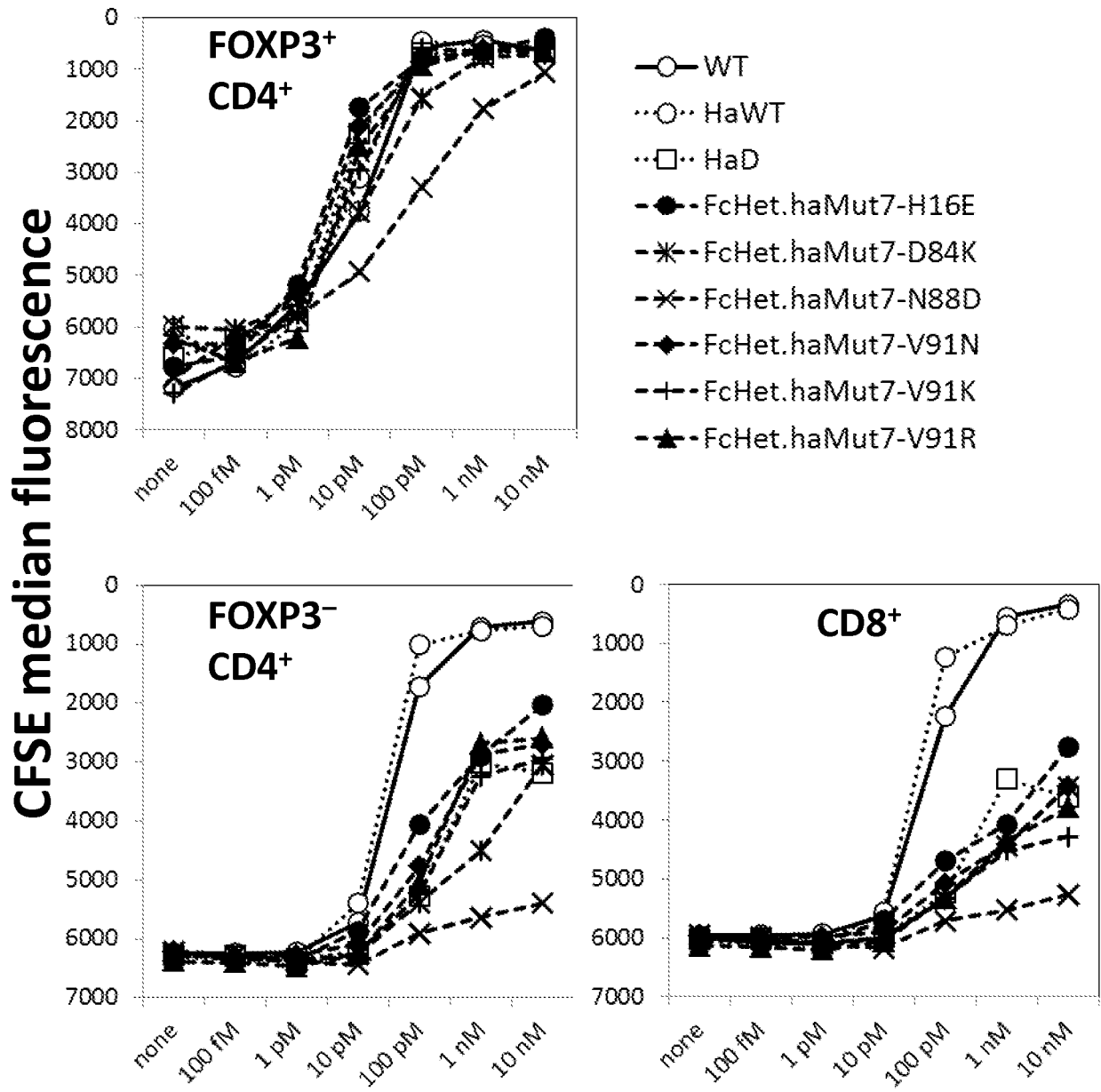


FIG. 3

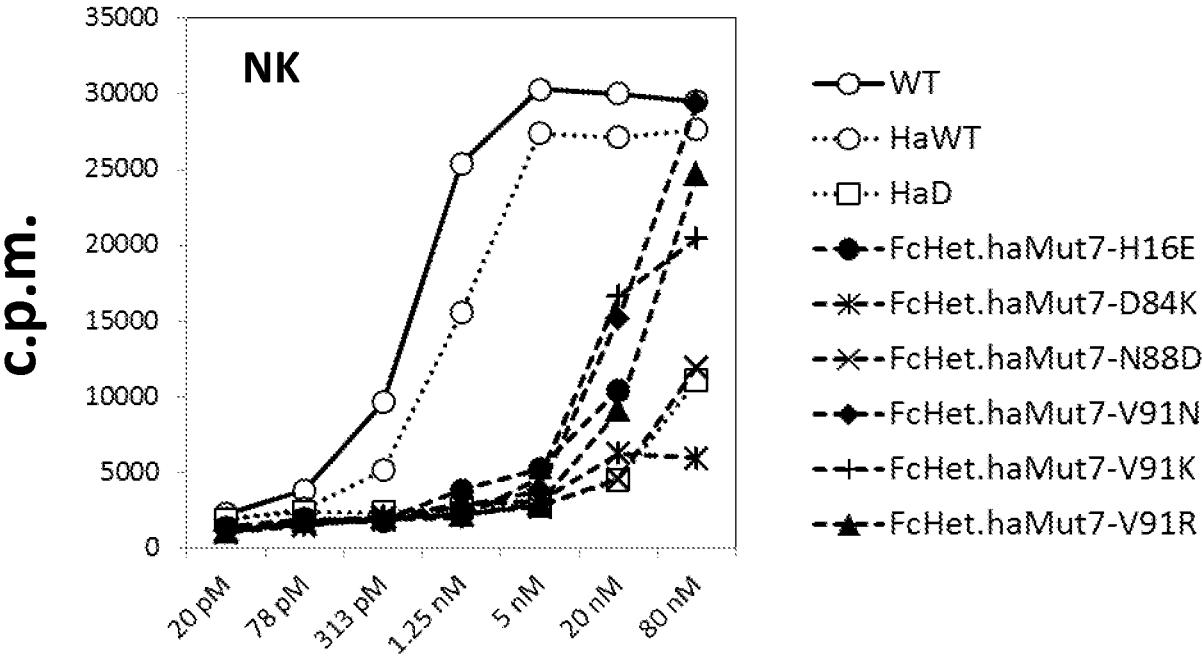


FIG. 4

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CFSE median fluorescence

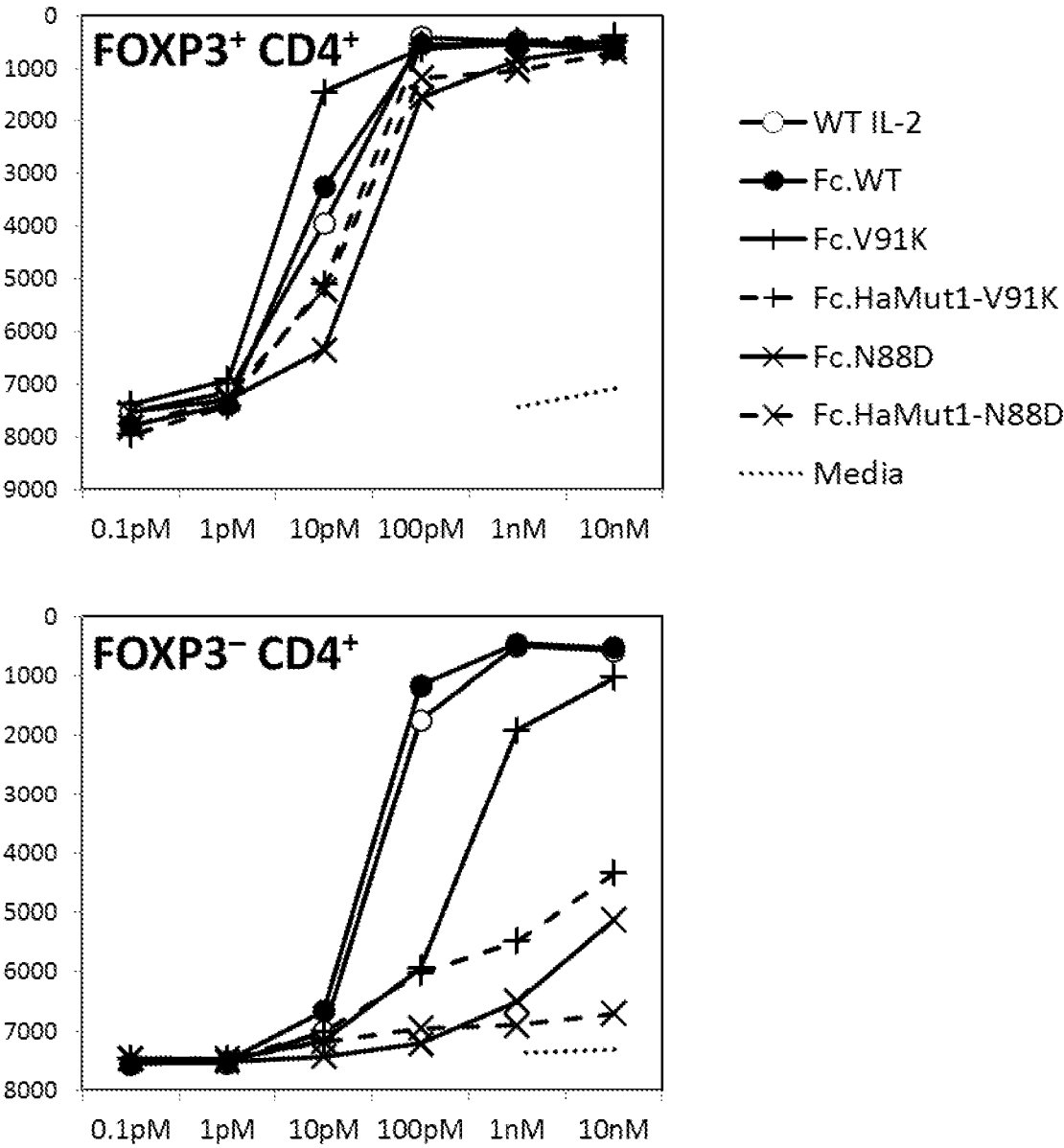


FIG. 5

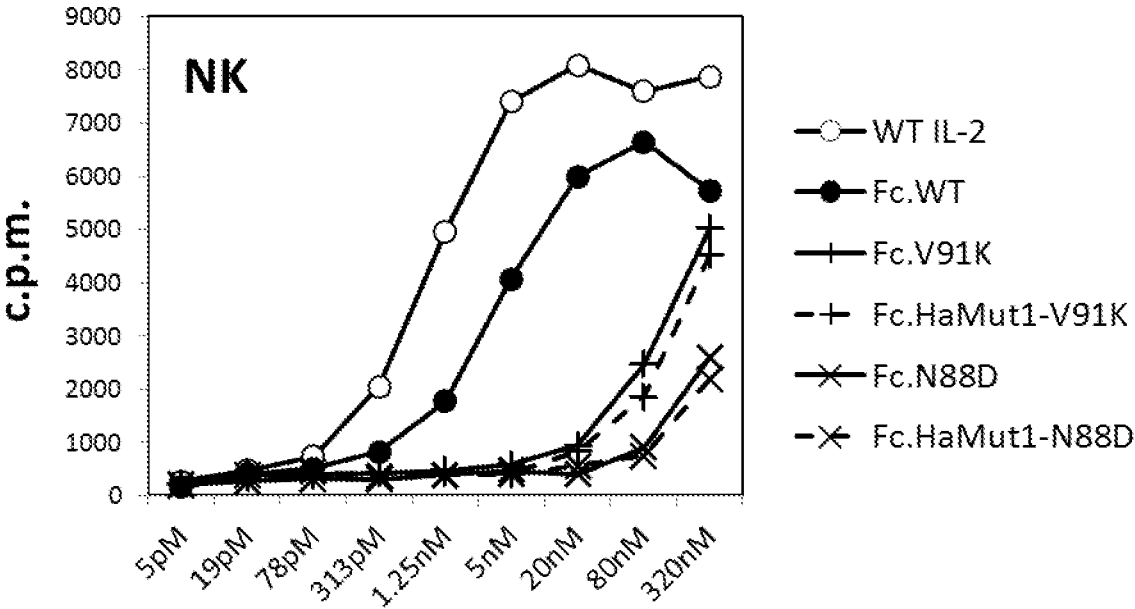


FIG. 6

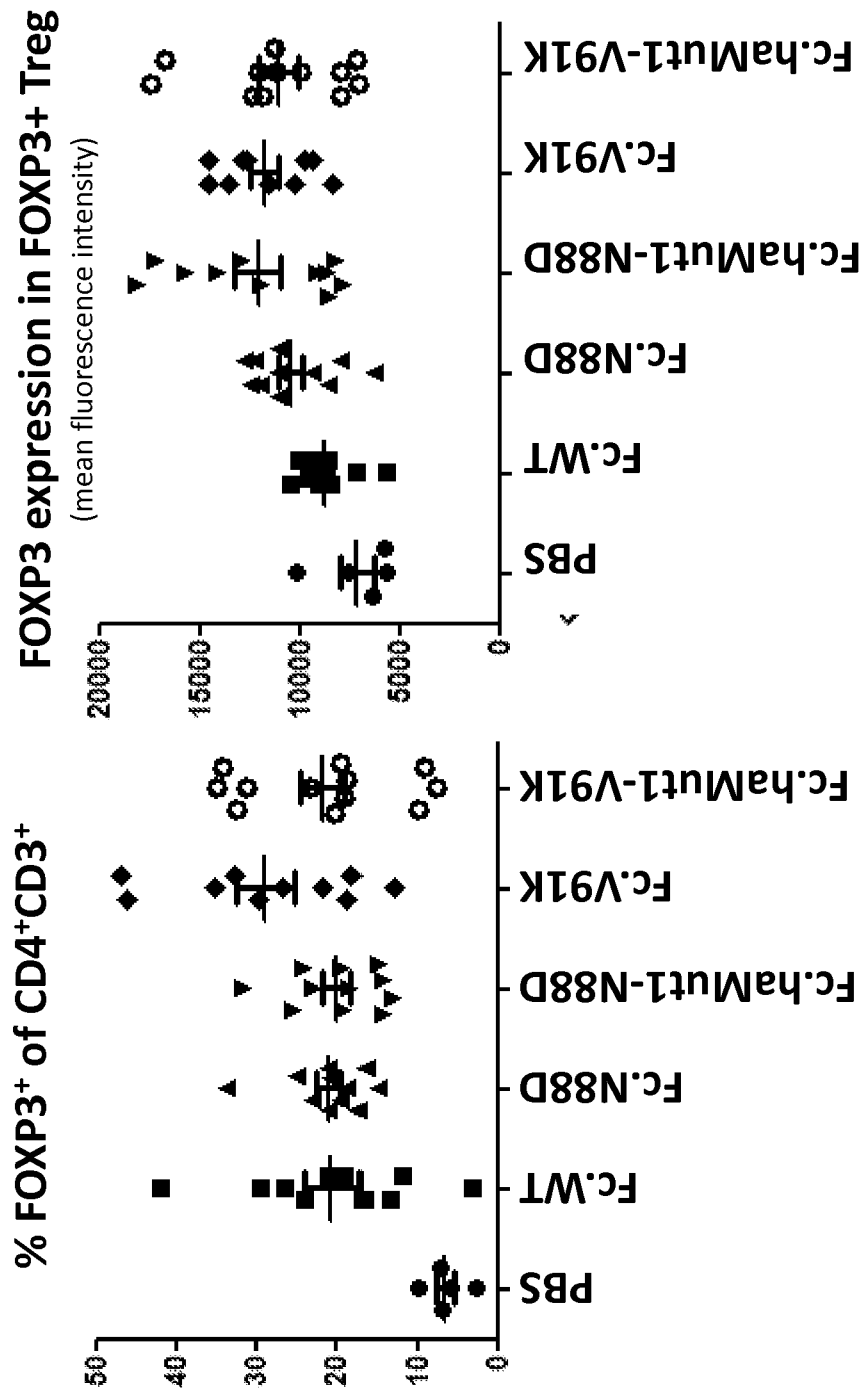


FIG. 7A

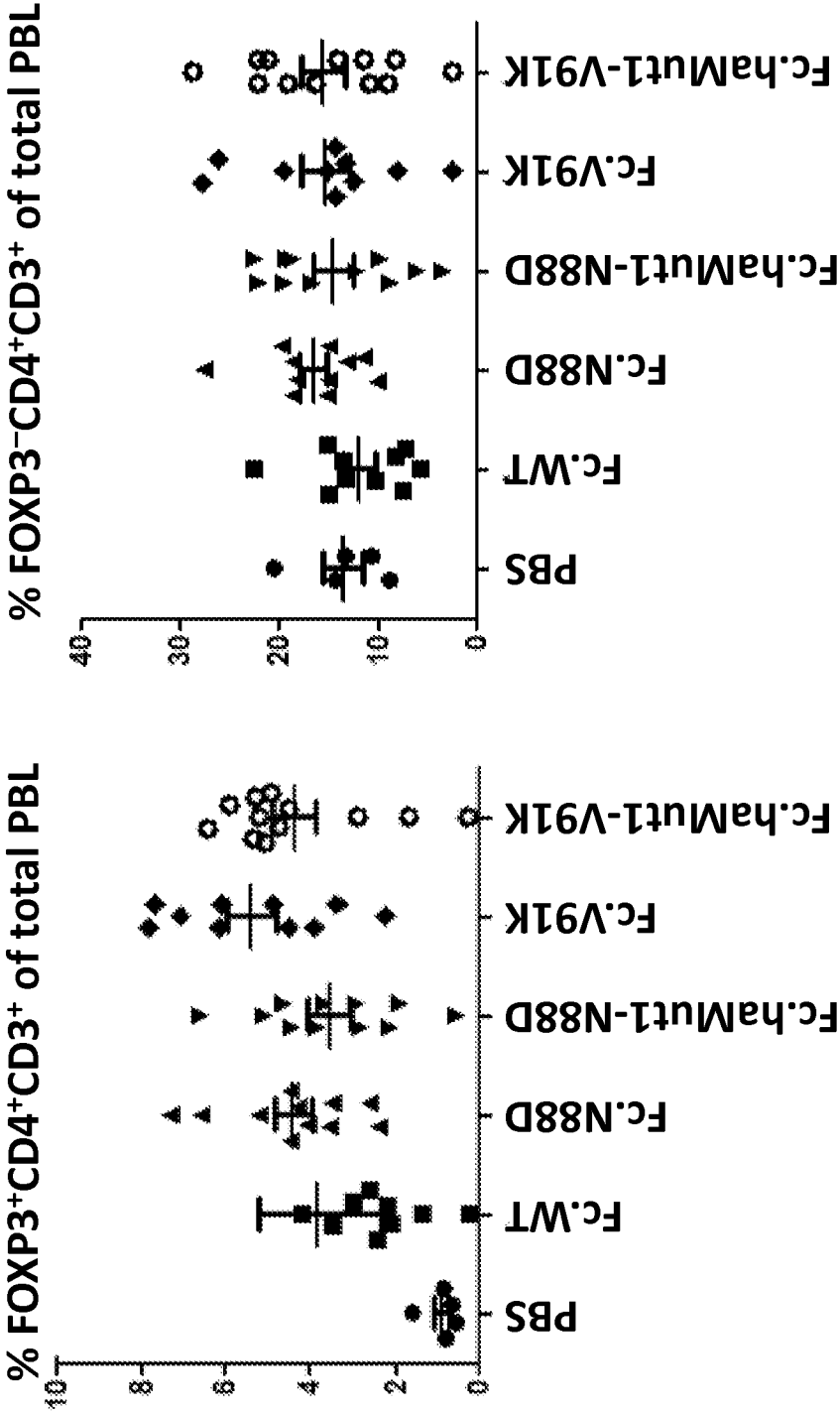


FIG. 7B

FIG. 8

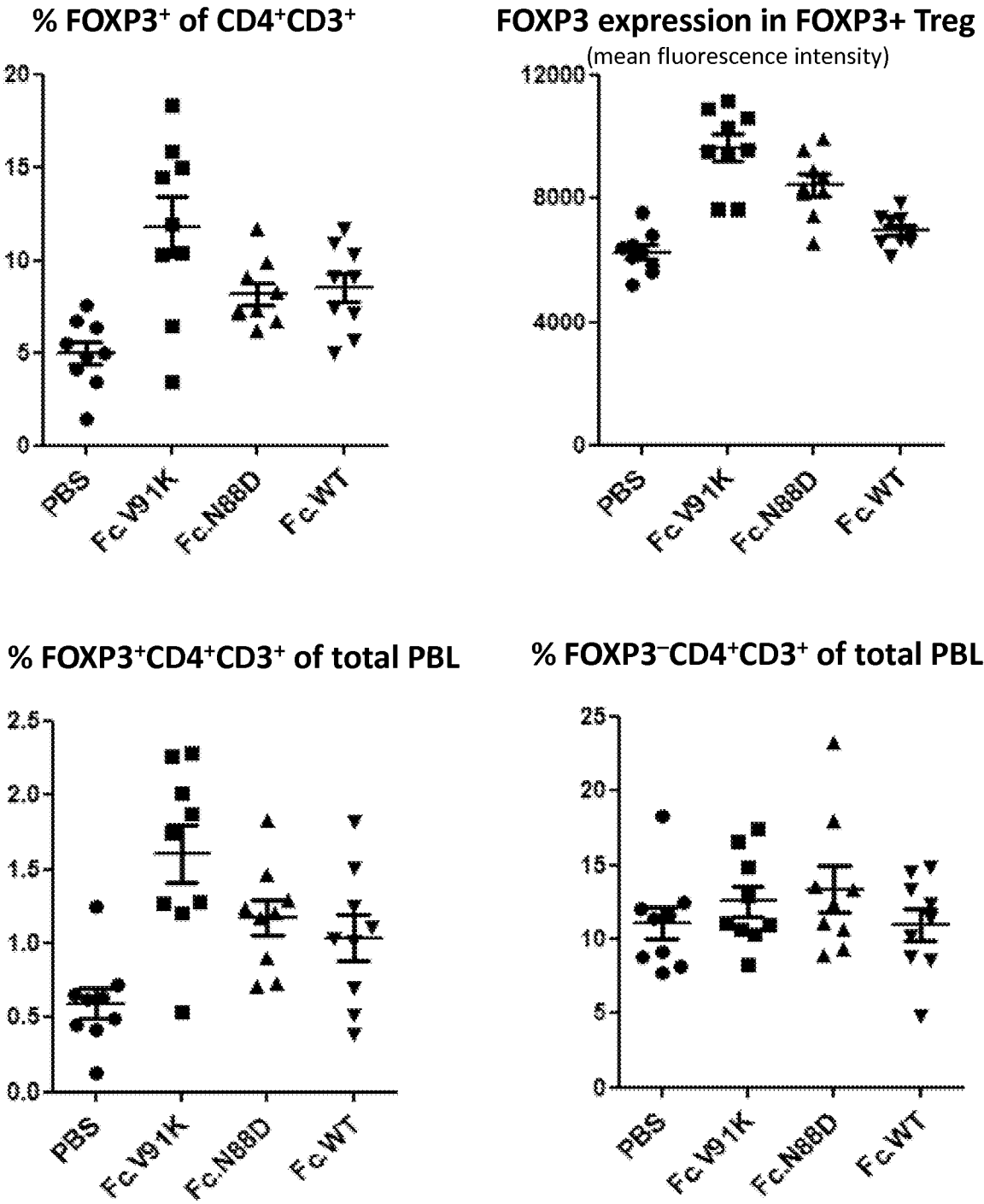


FIG. 9A

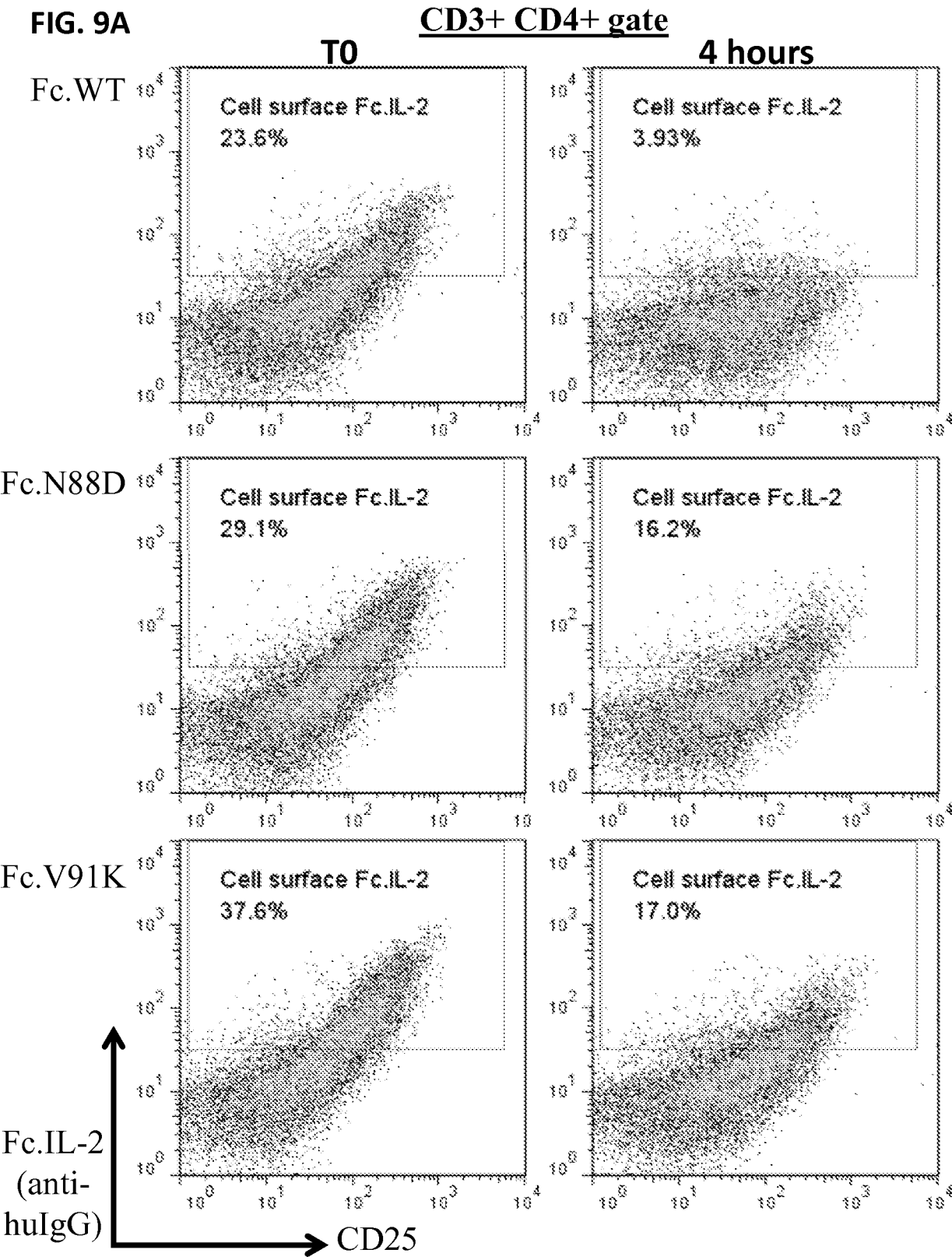


FIG. 9B

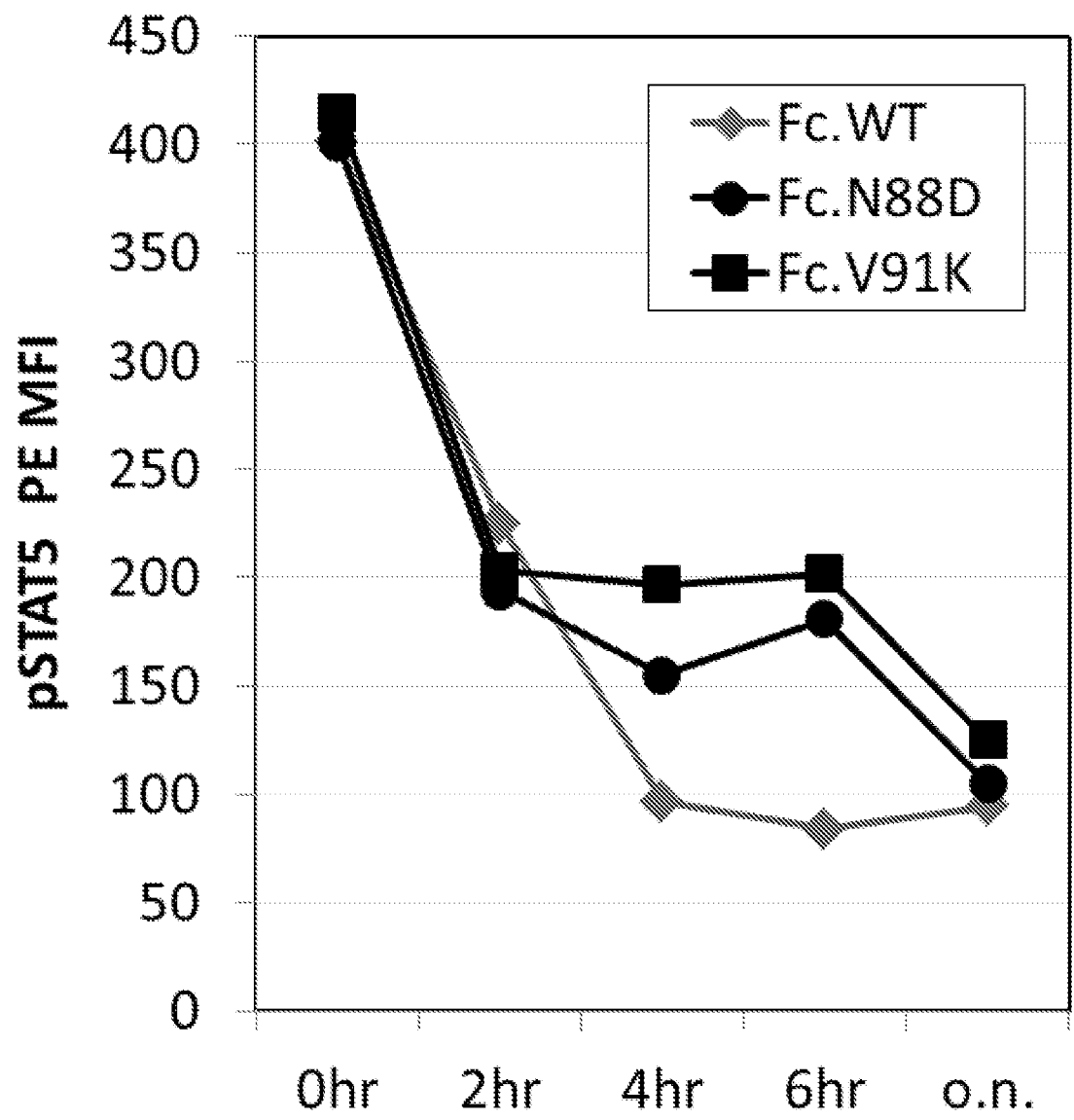
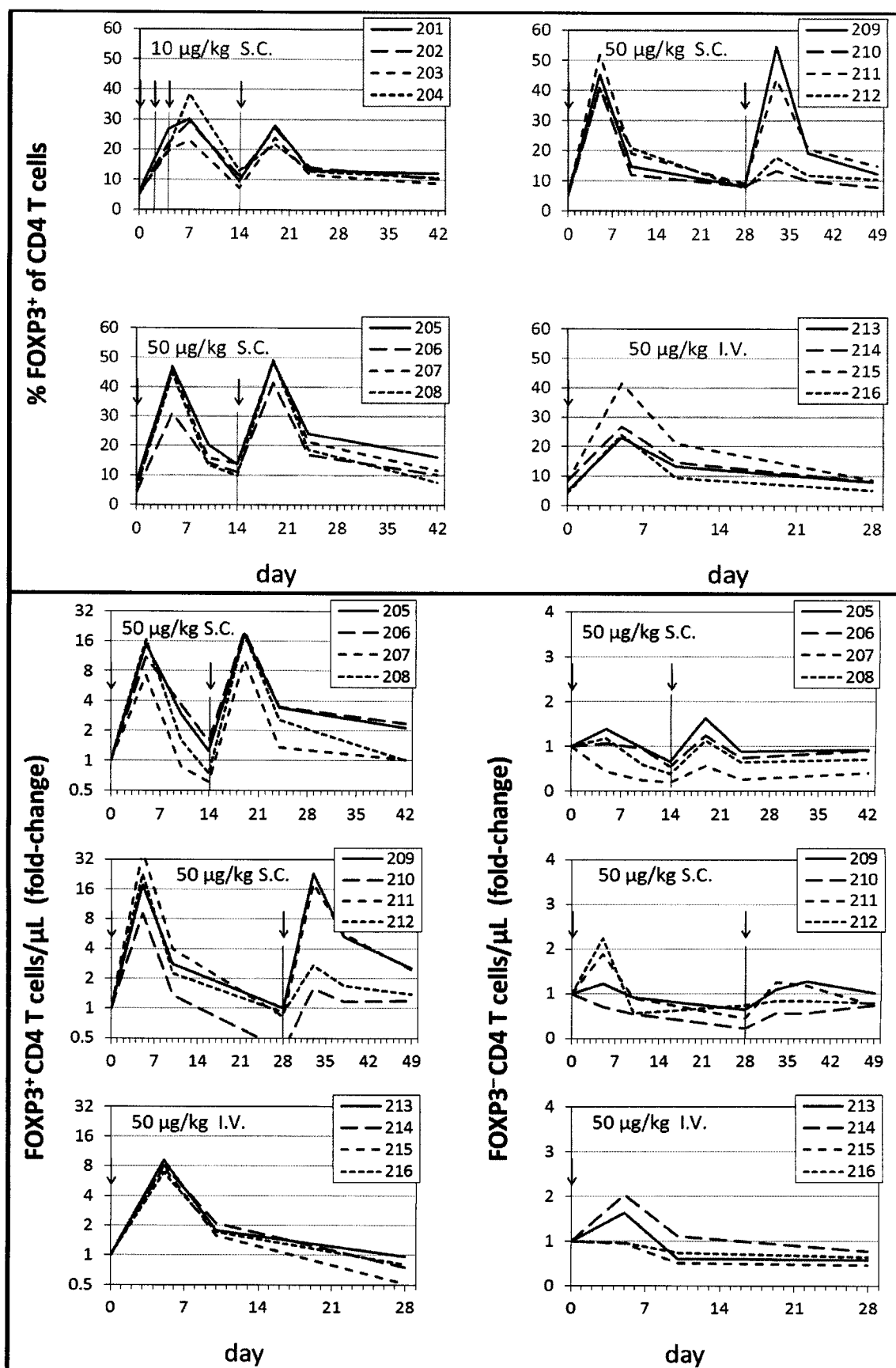
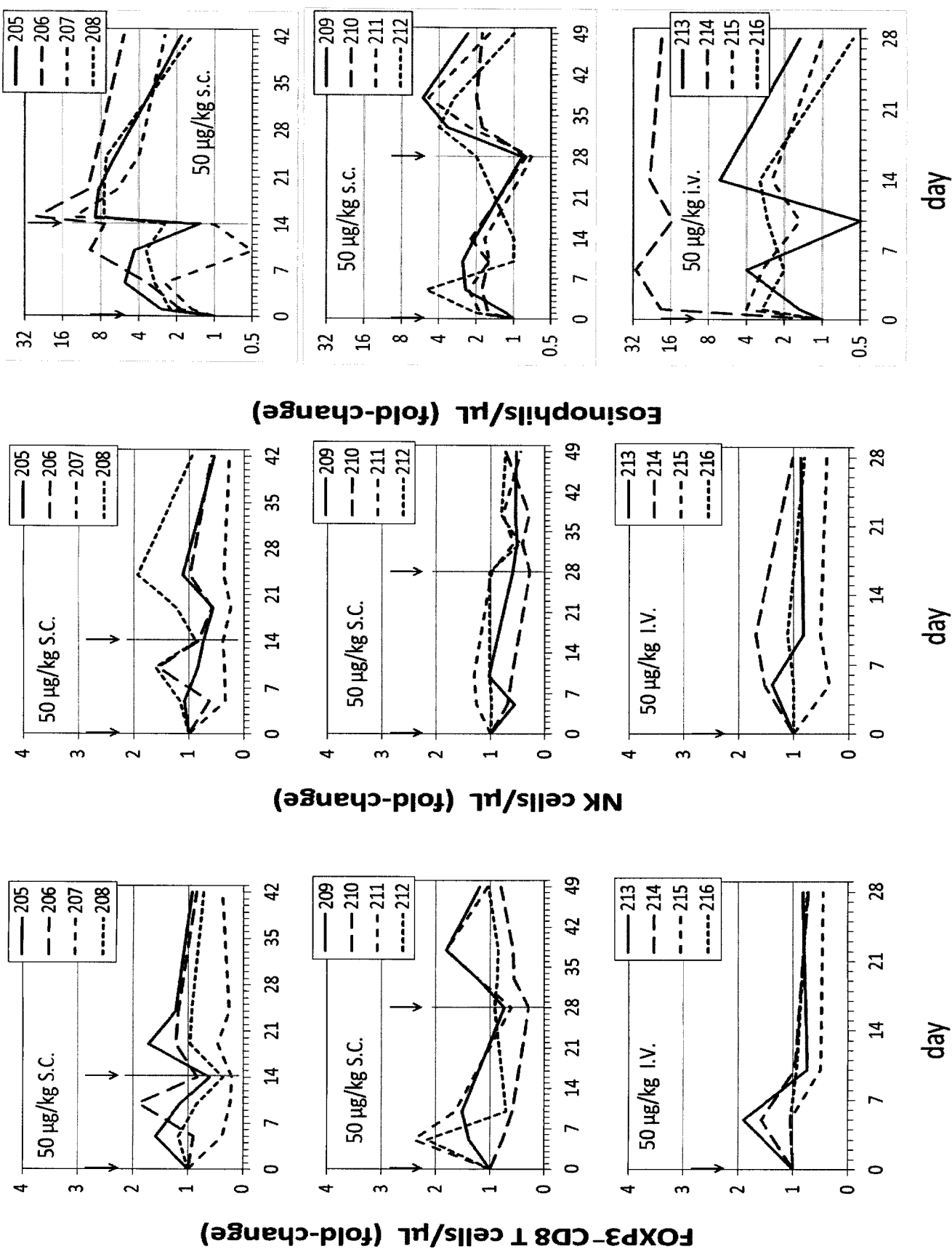


FIG. 10A



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FIG. 10B



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FIG. 11A

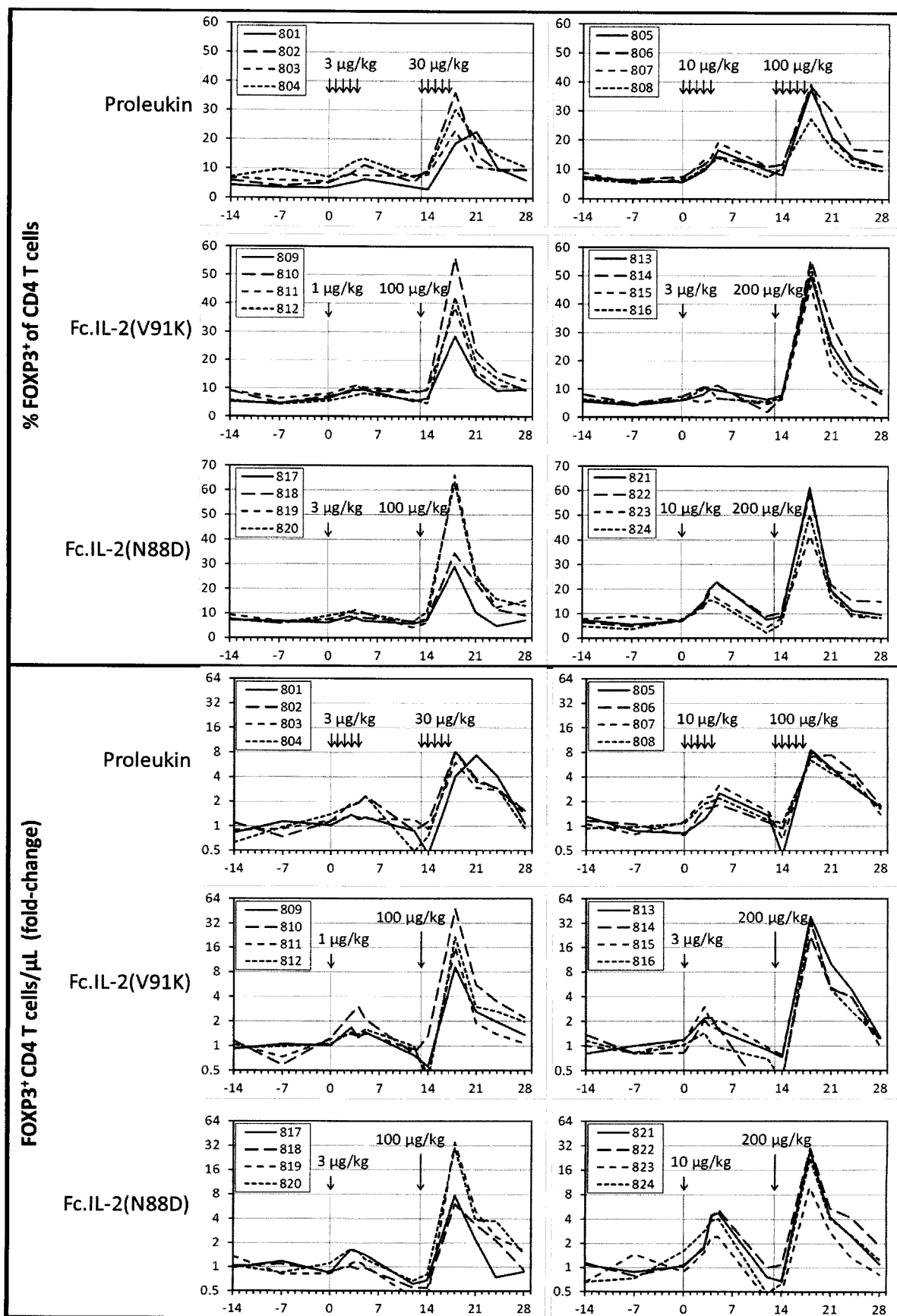


FIG. 11B

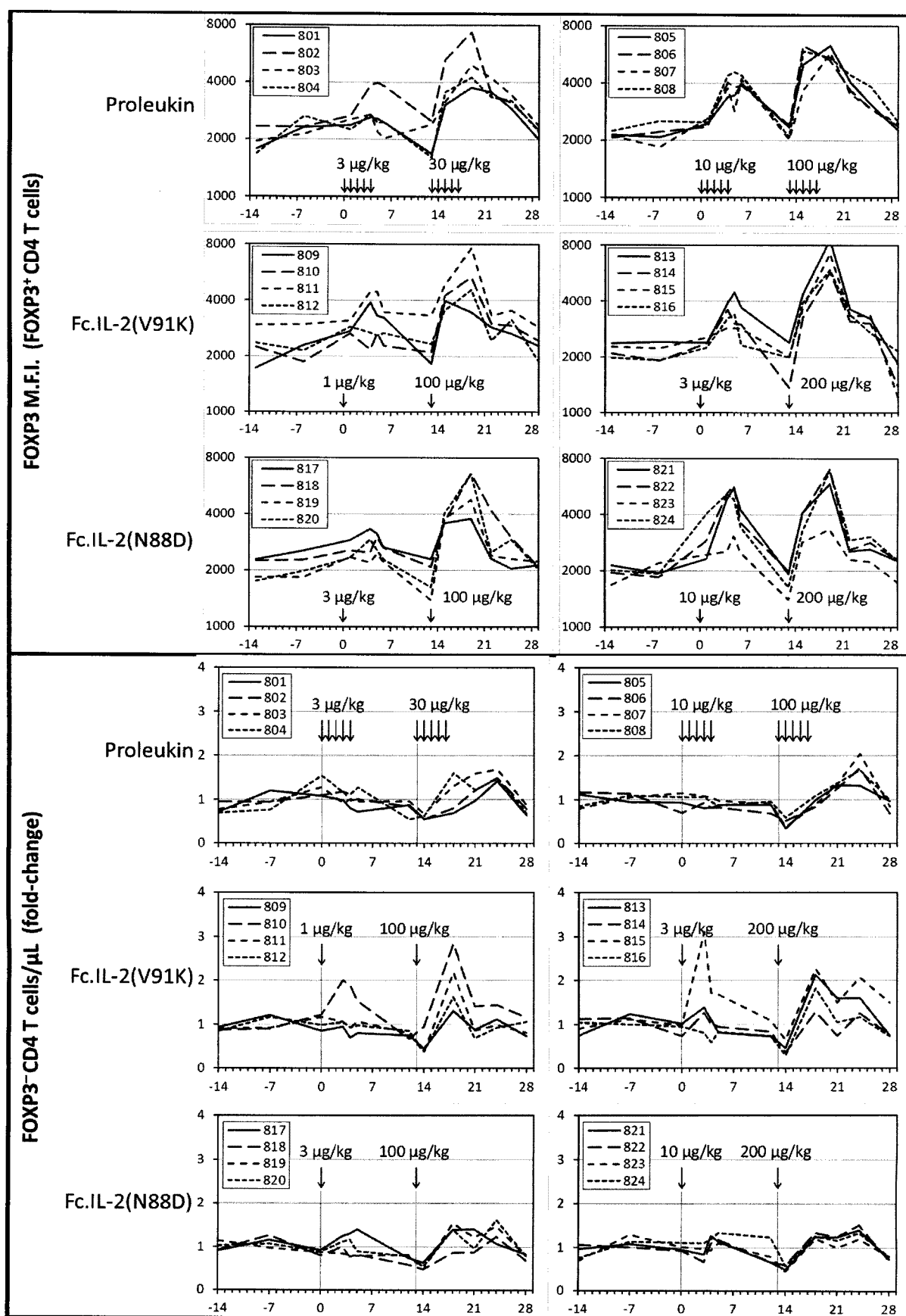


FIG. 11C

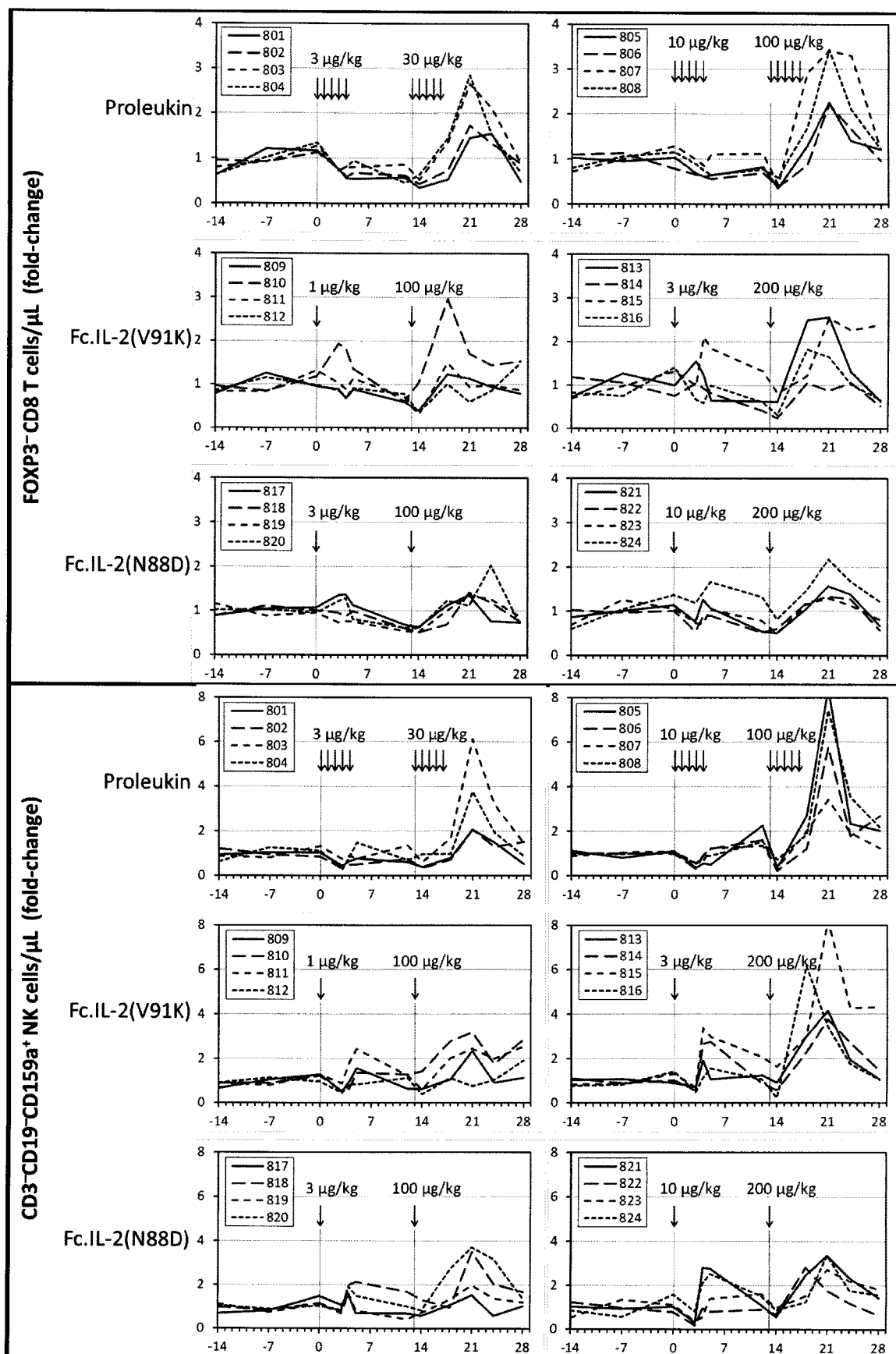
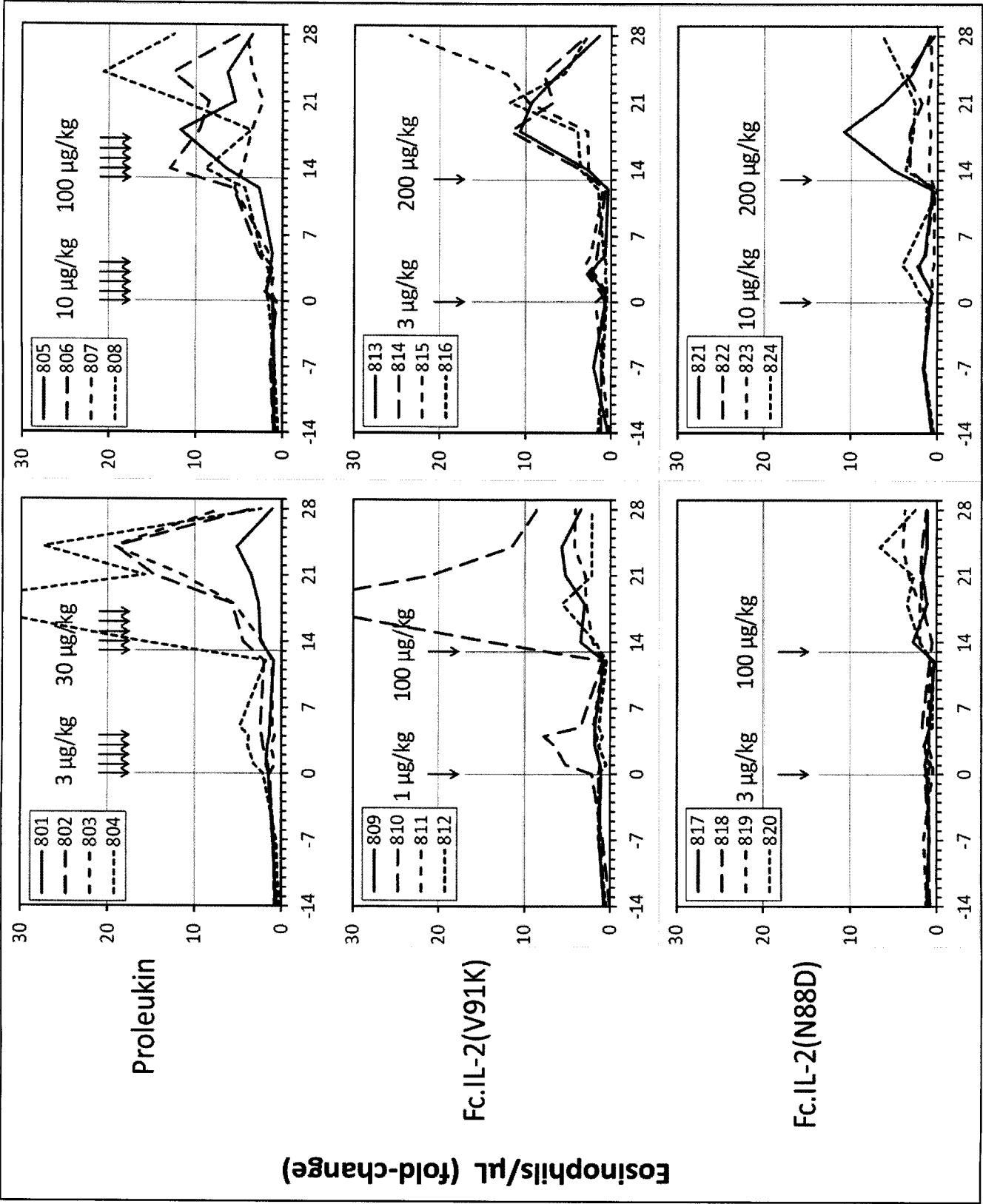
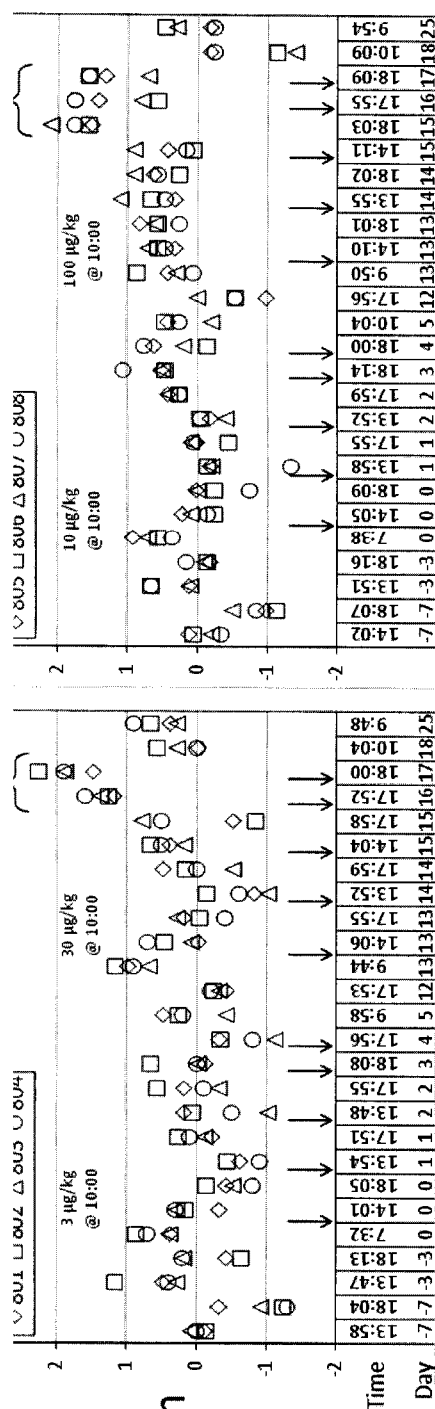


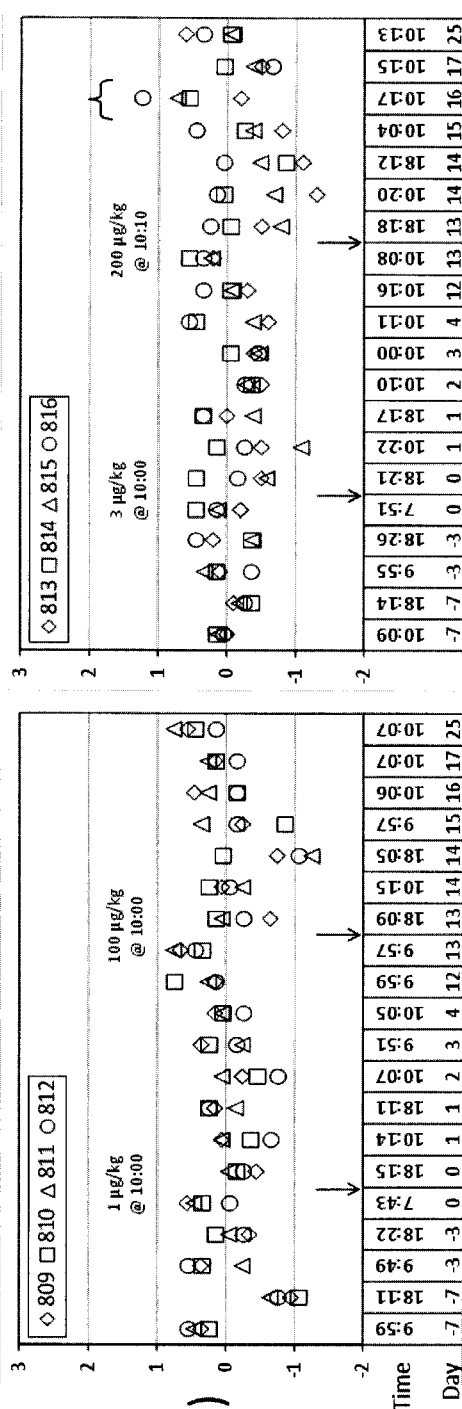
FIG. 11D



Proleukin



FC.II-2(V91K)



FC.IL-2(N88D)

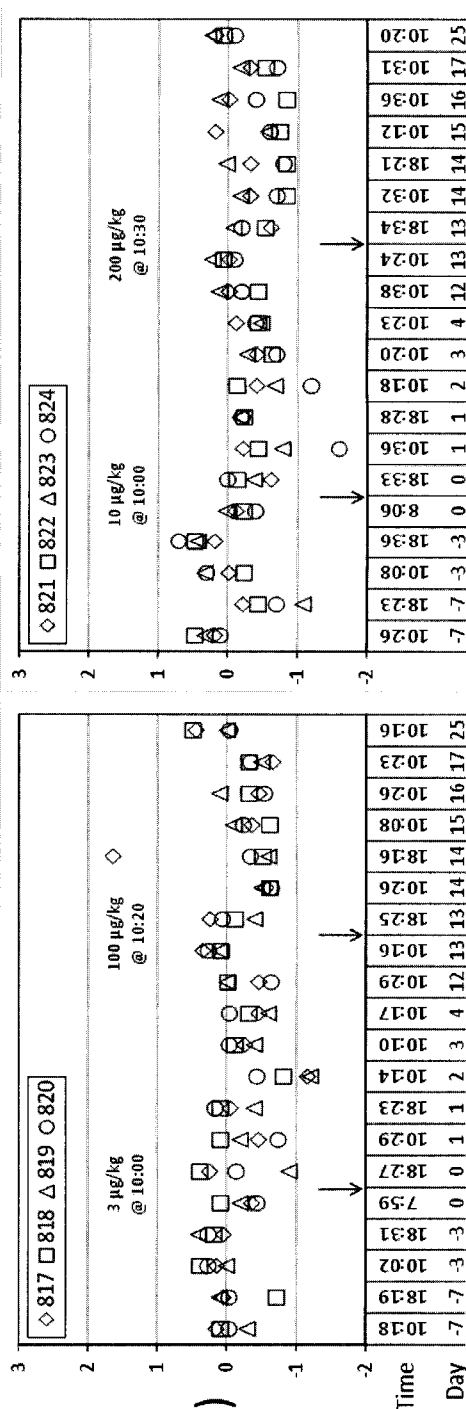


FIG. 11F

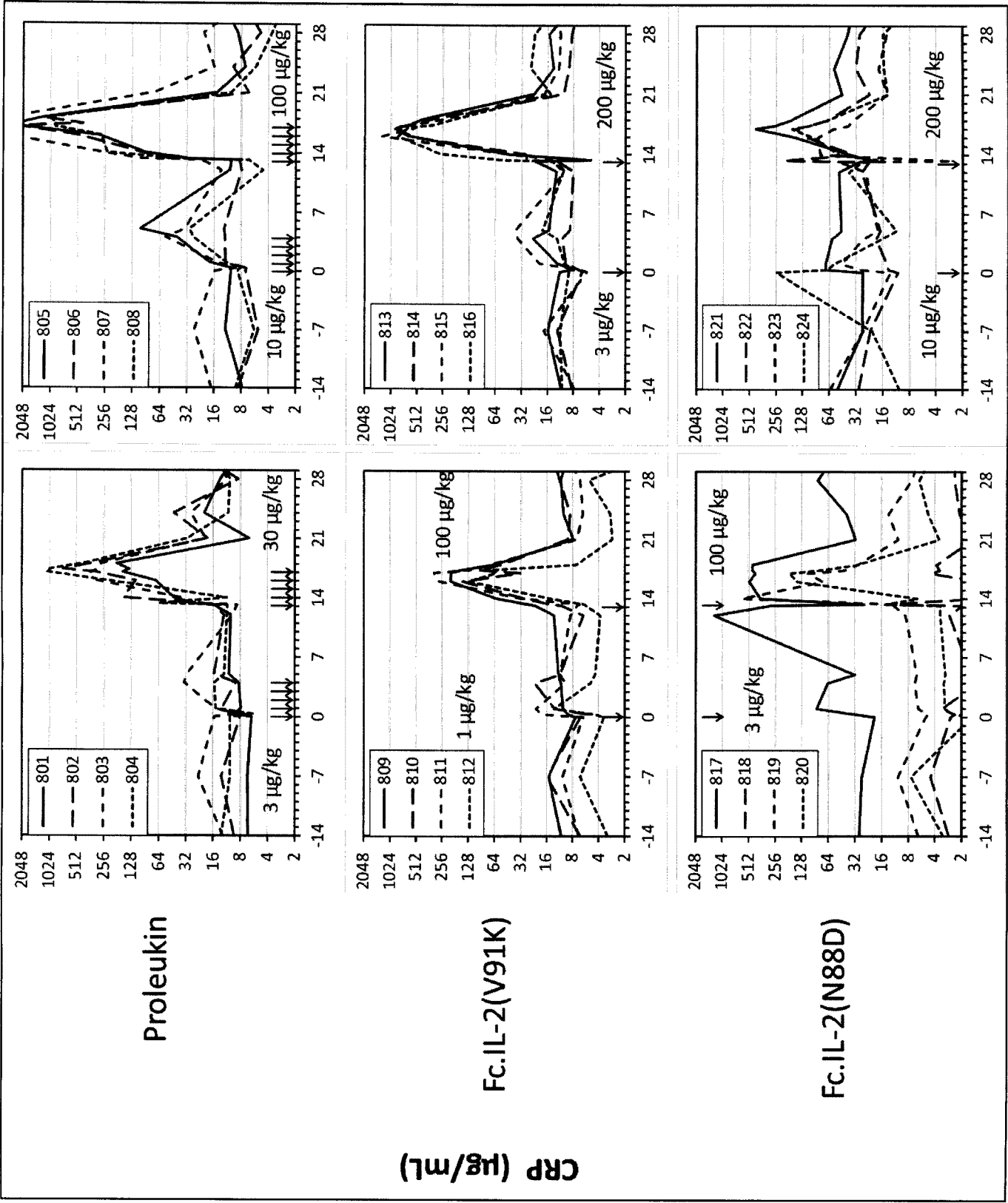


FIG. 12A

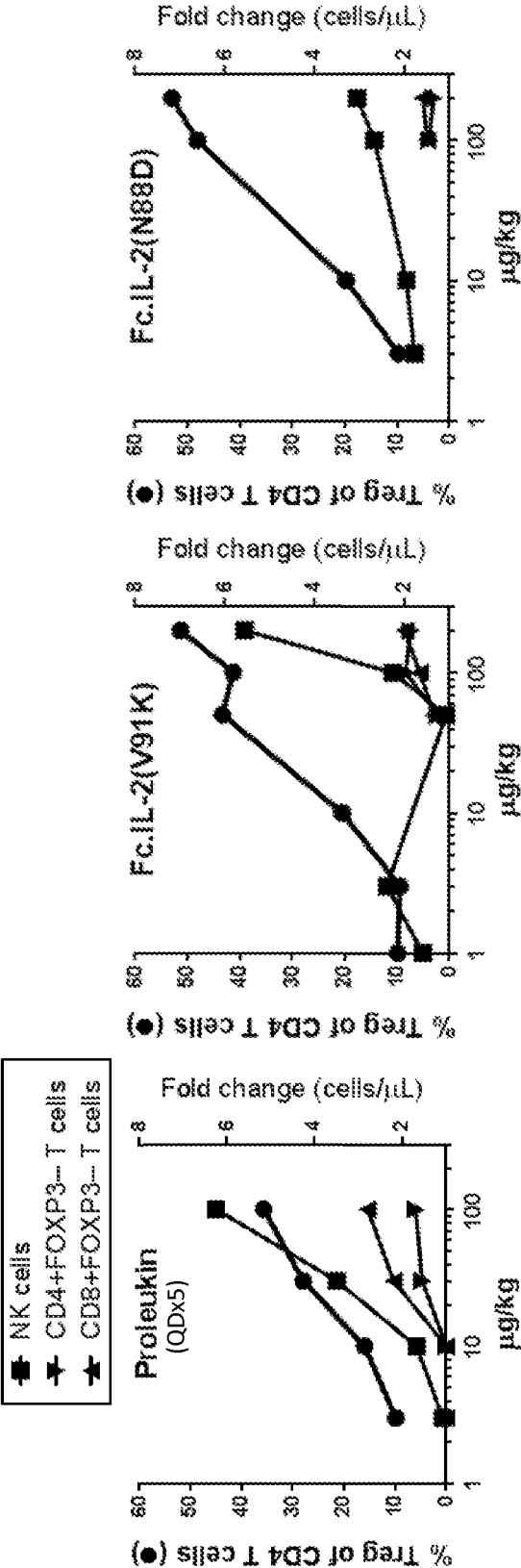


FIG. 12B

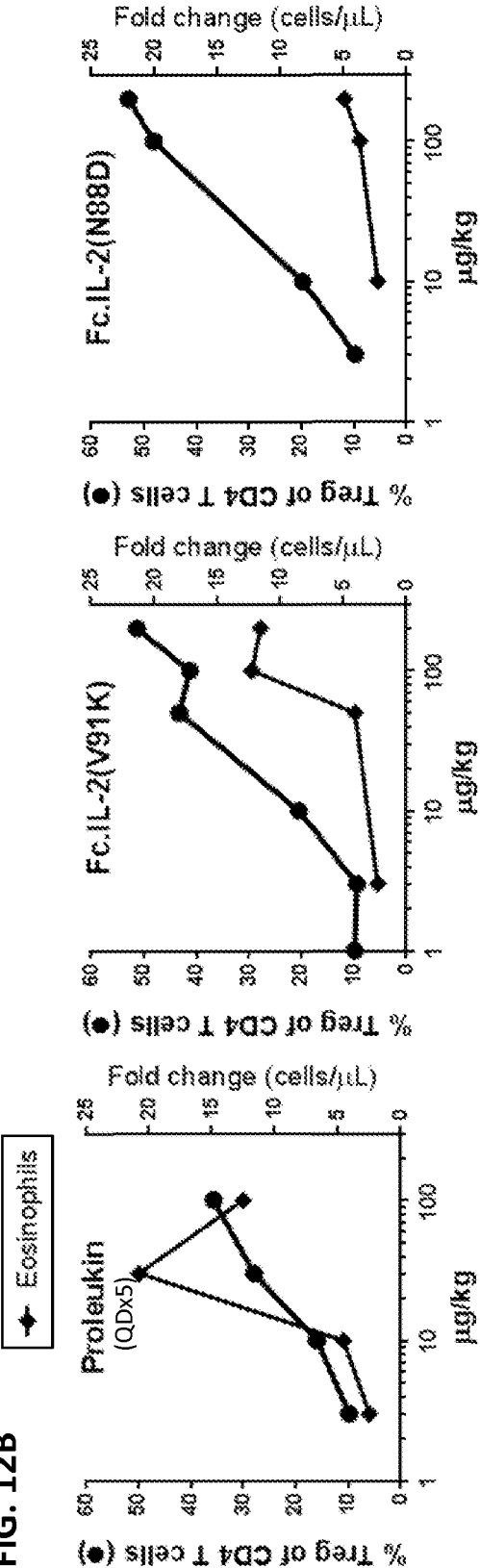


FIG. 12C

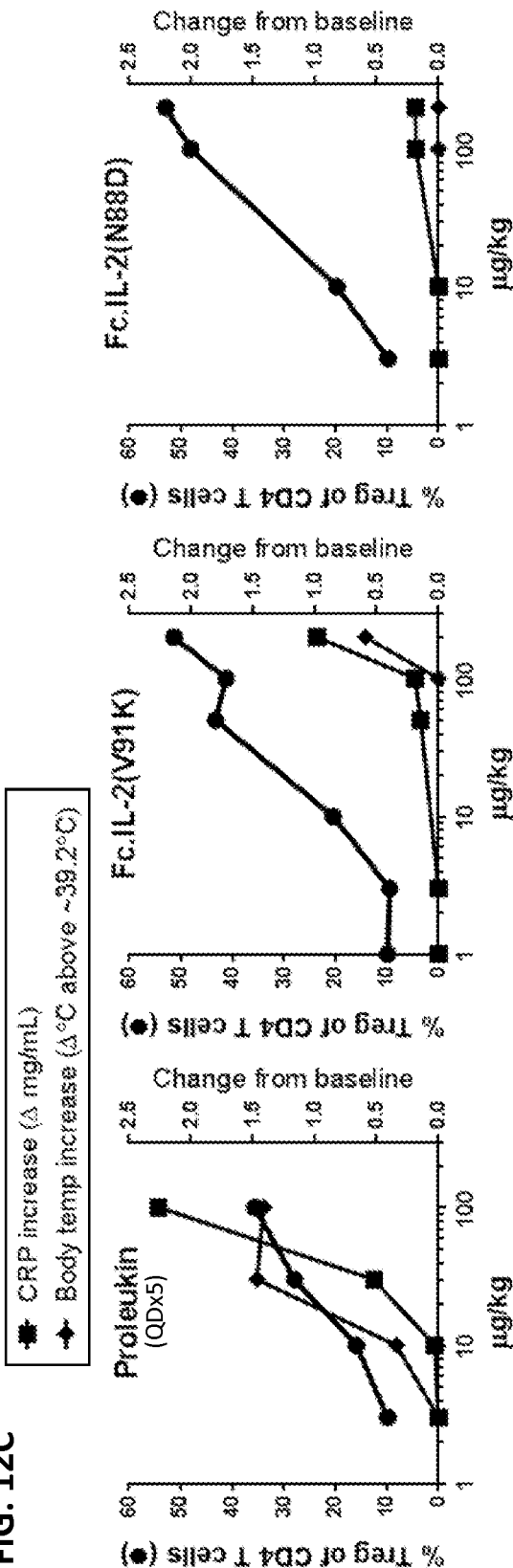


FIG. 12D

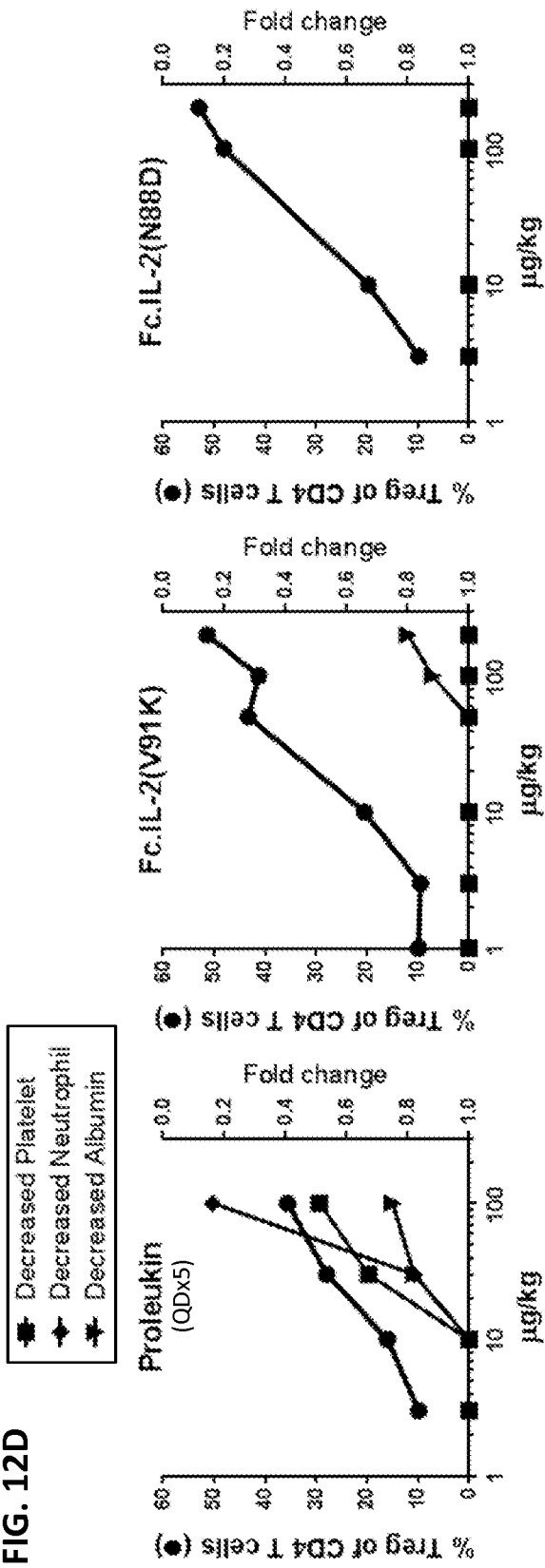


FIG. 13

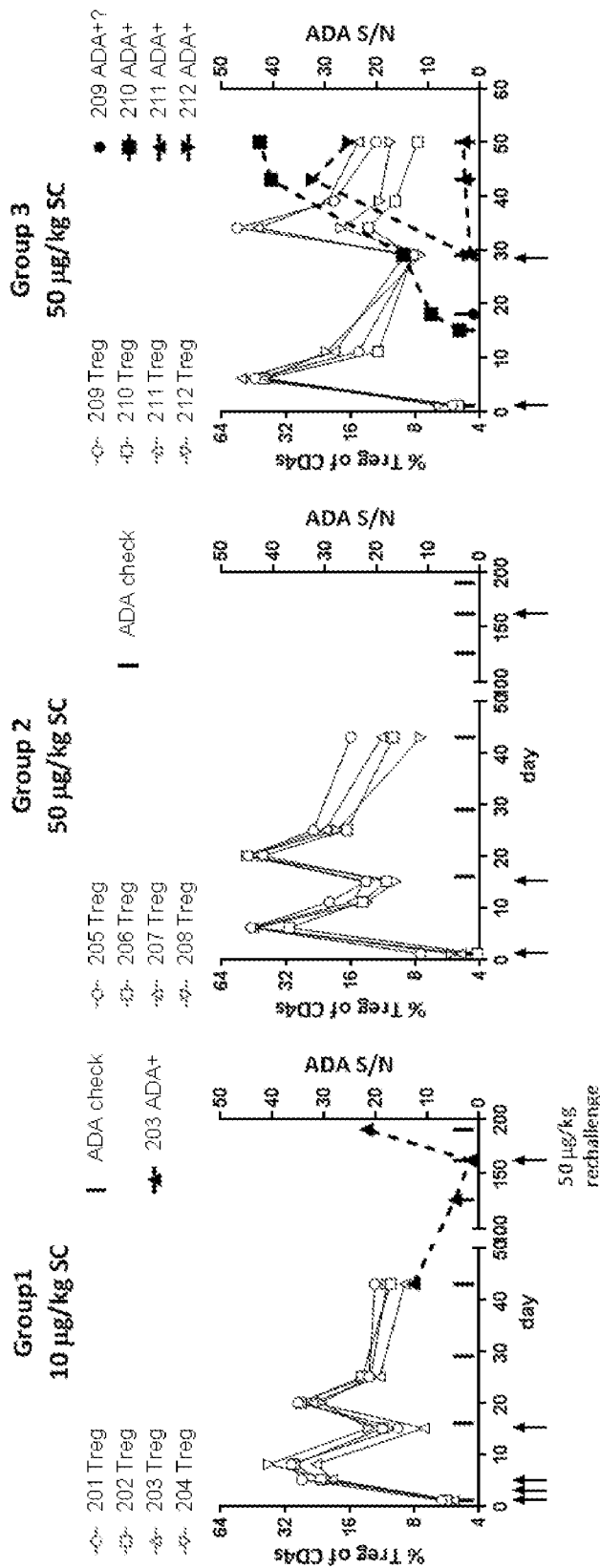


FIG. 14

	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

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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

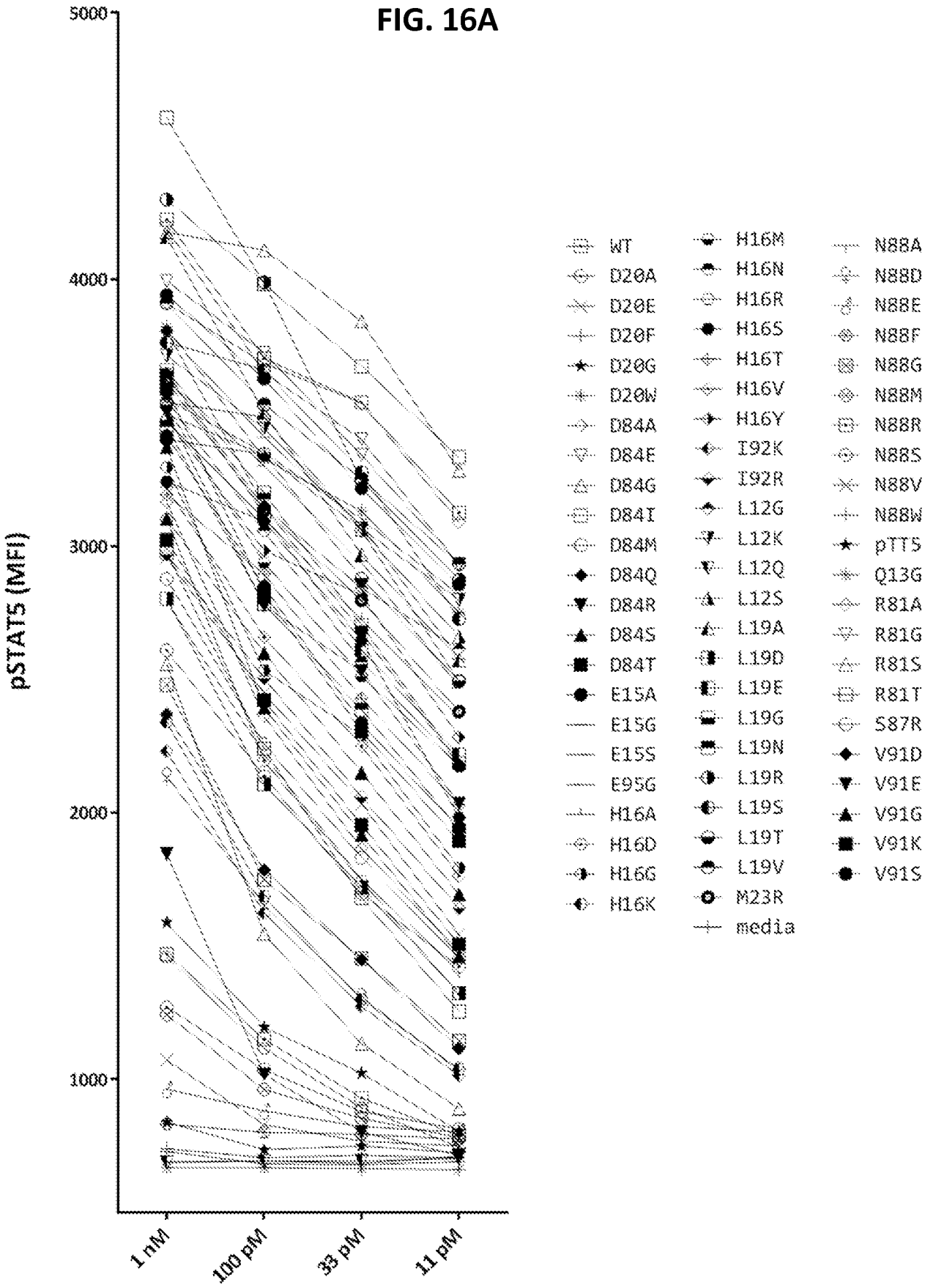


FIG. 16B

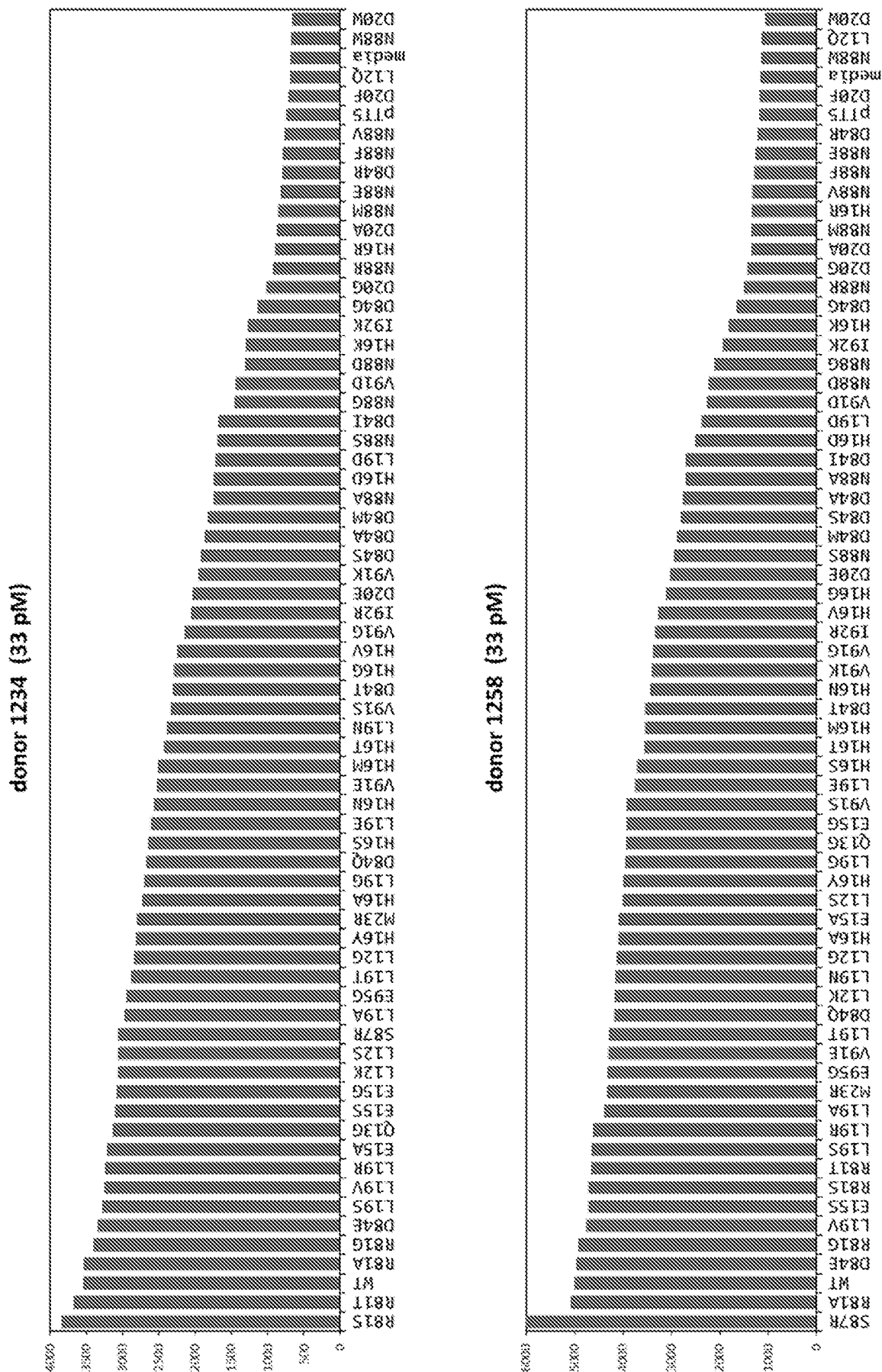


FIG. 17

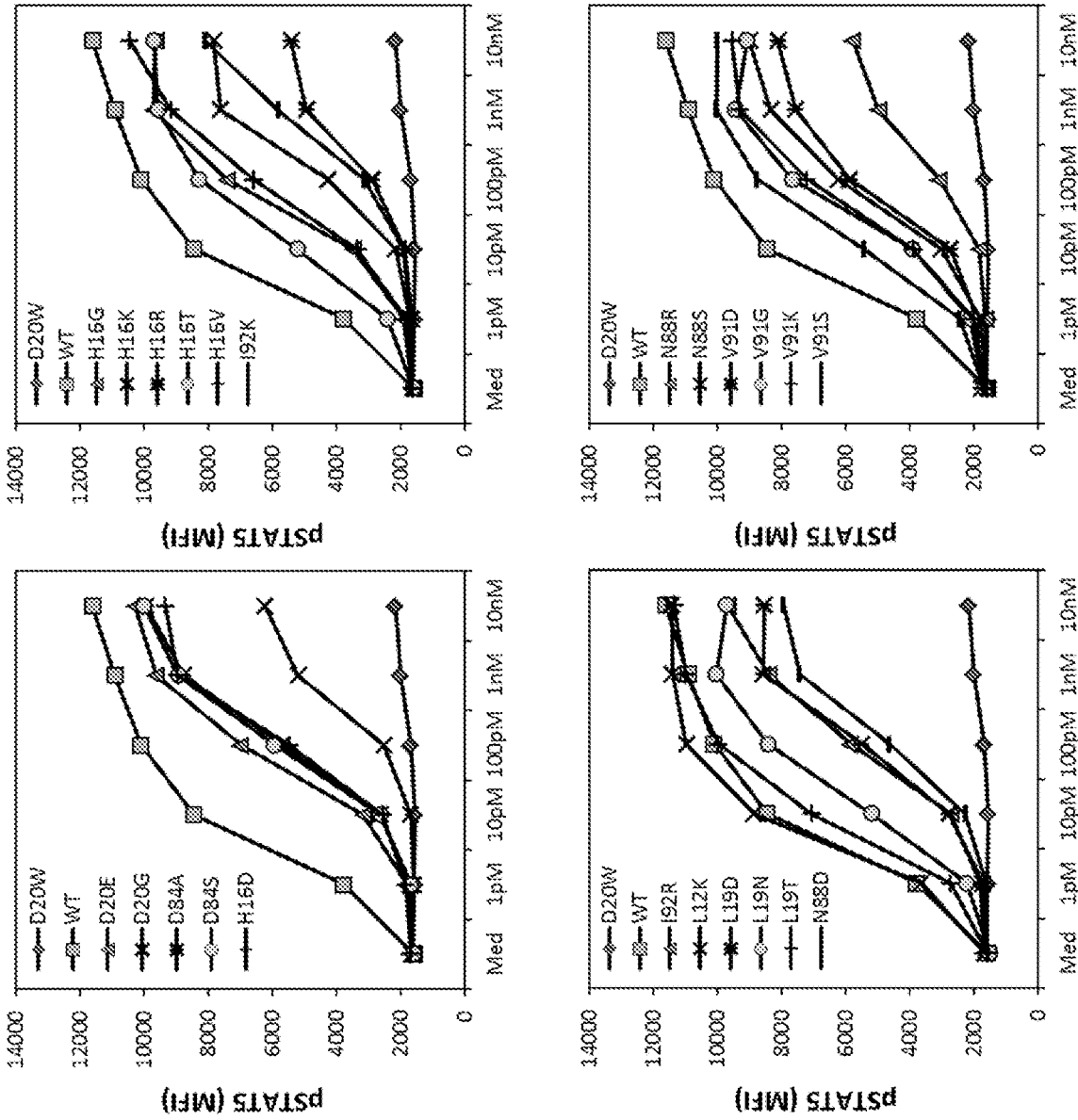


FIG. 18A

FOXP3⁻ CD4⁺ proliferation

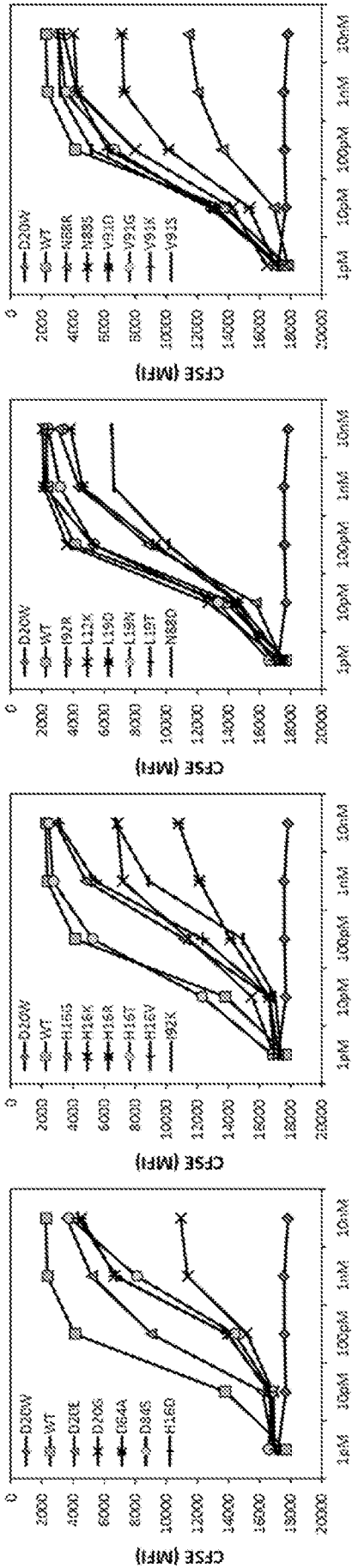


FIG. 18B

FOXP3⁻ CD8⁺ proliferation

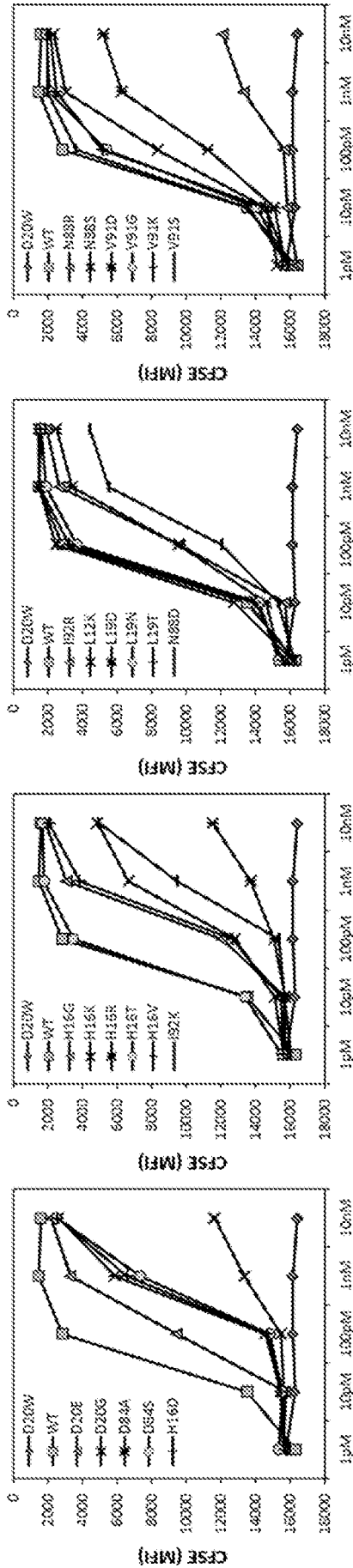


FIG. 18C

FOXP3⁺ HELIOS⁺ CD4⁺ proliferation

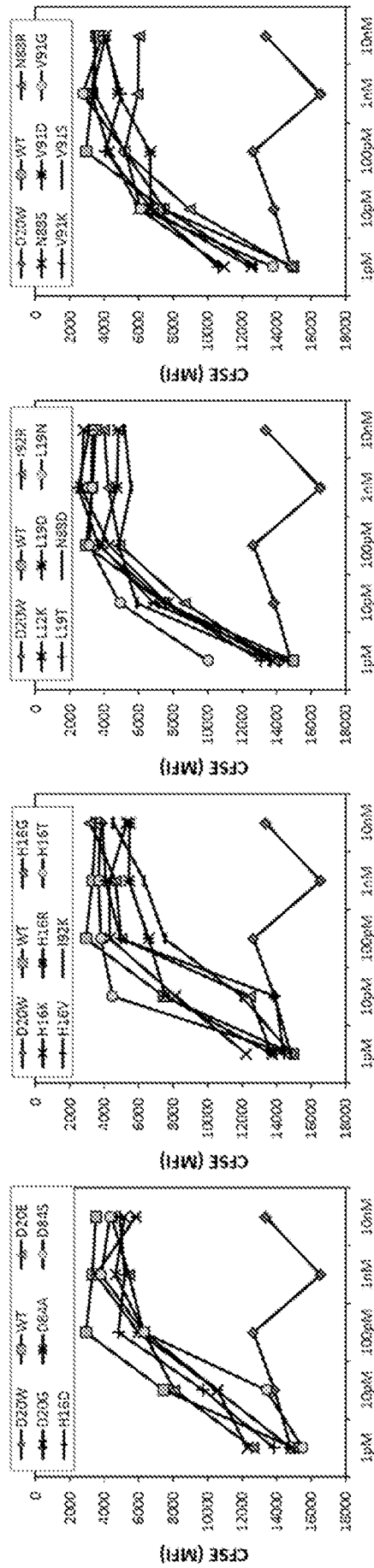


FIG. 18D

FOXP3 MFI in FOXP3⁺ HELIOS⁺ CD4⁺

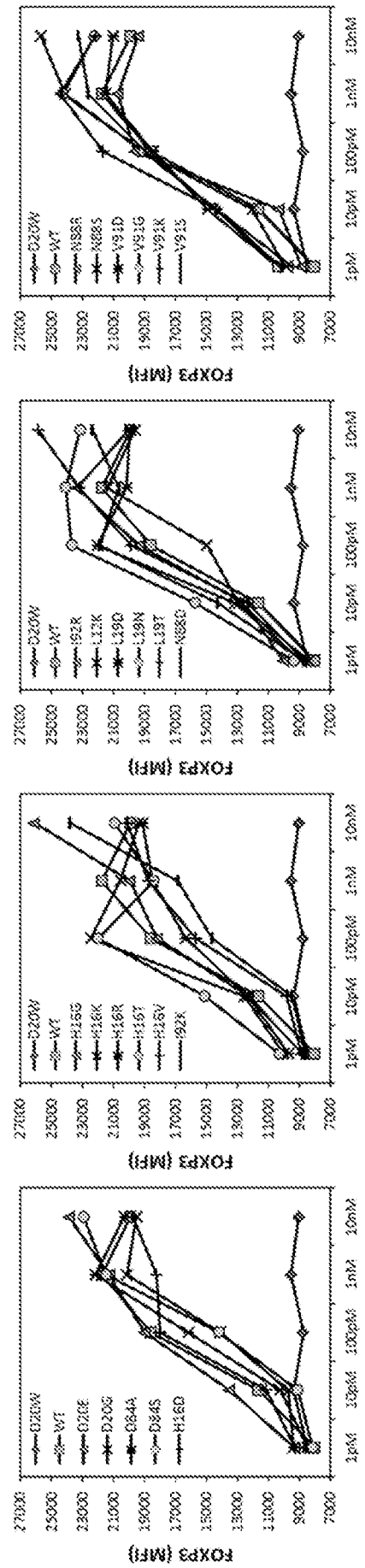
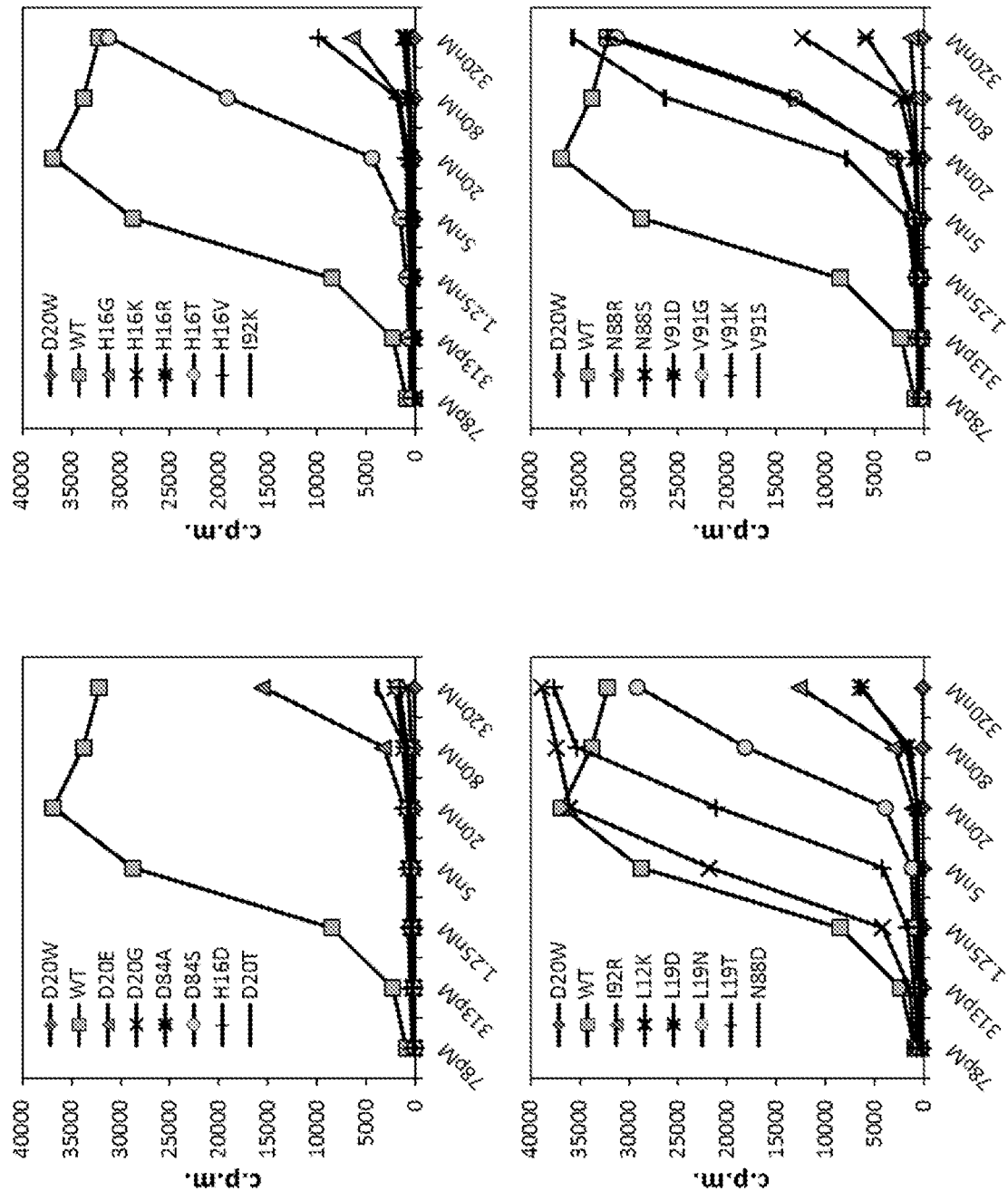


FIG. 19
NK proliferation



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FIG. 20A

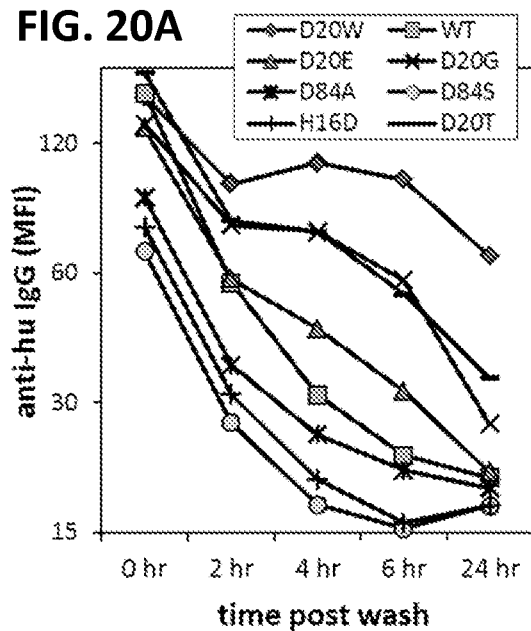
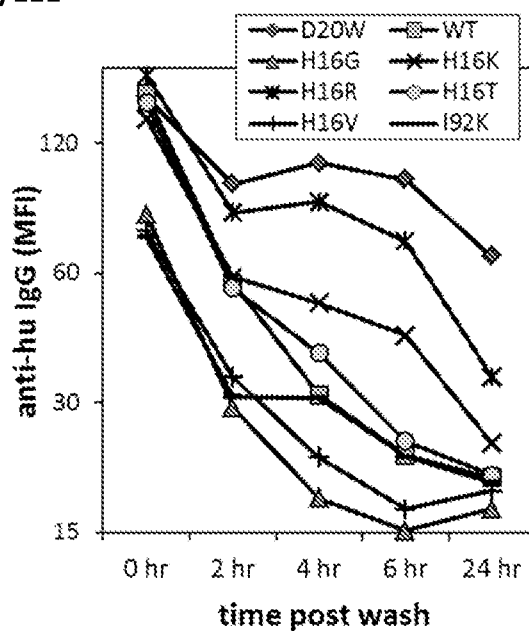
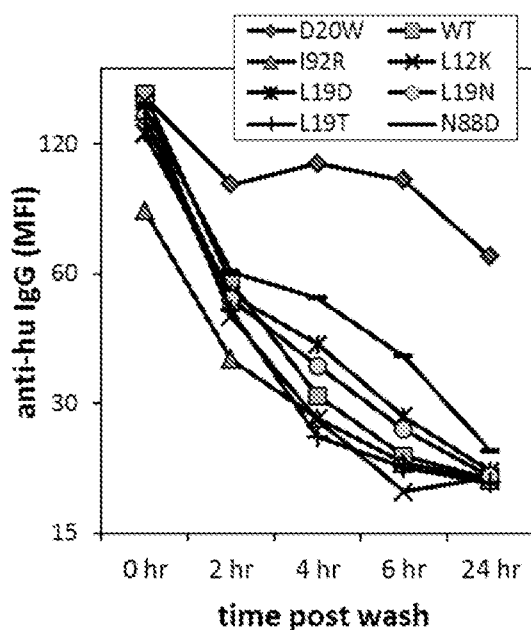
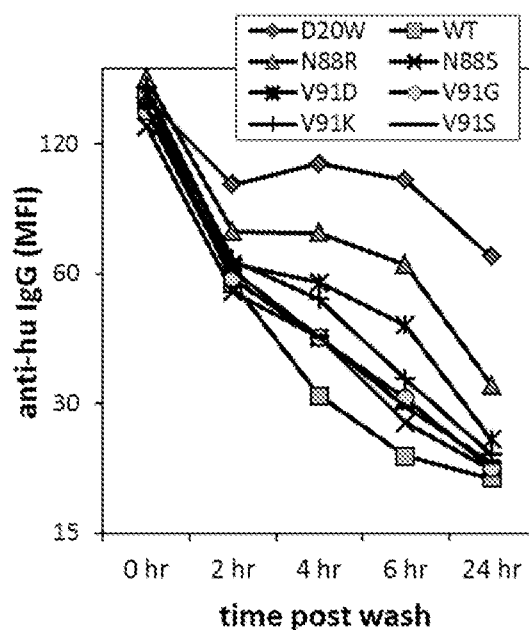


FIG. 20B

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

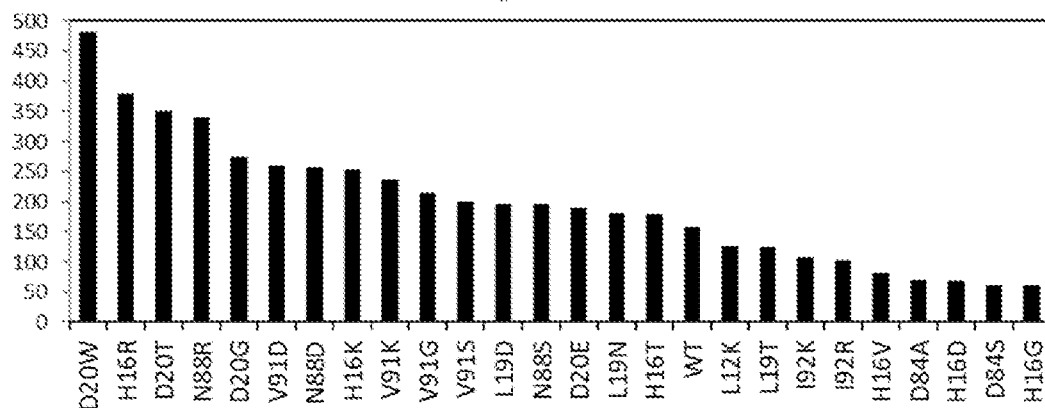


FIG. 21

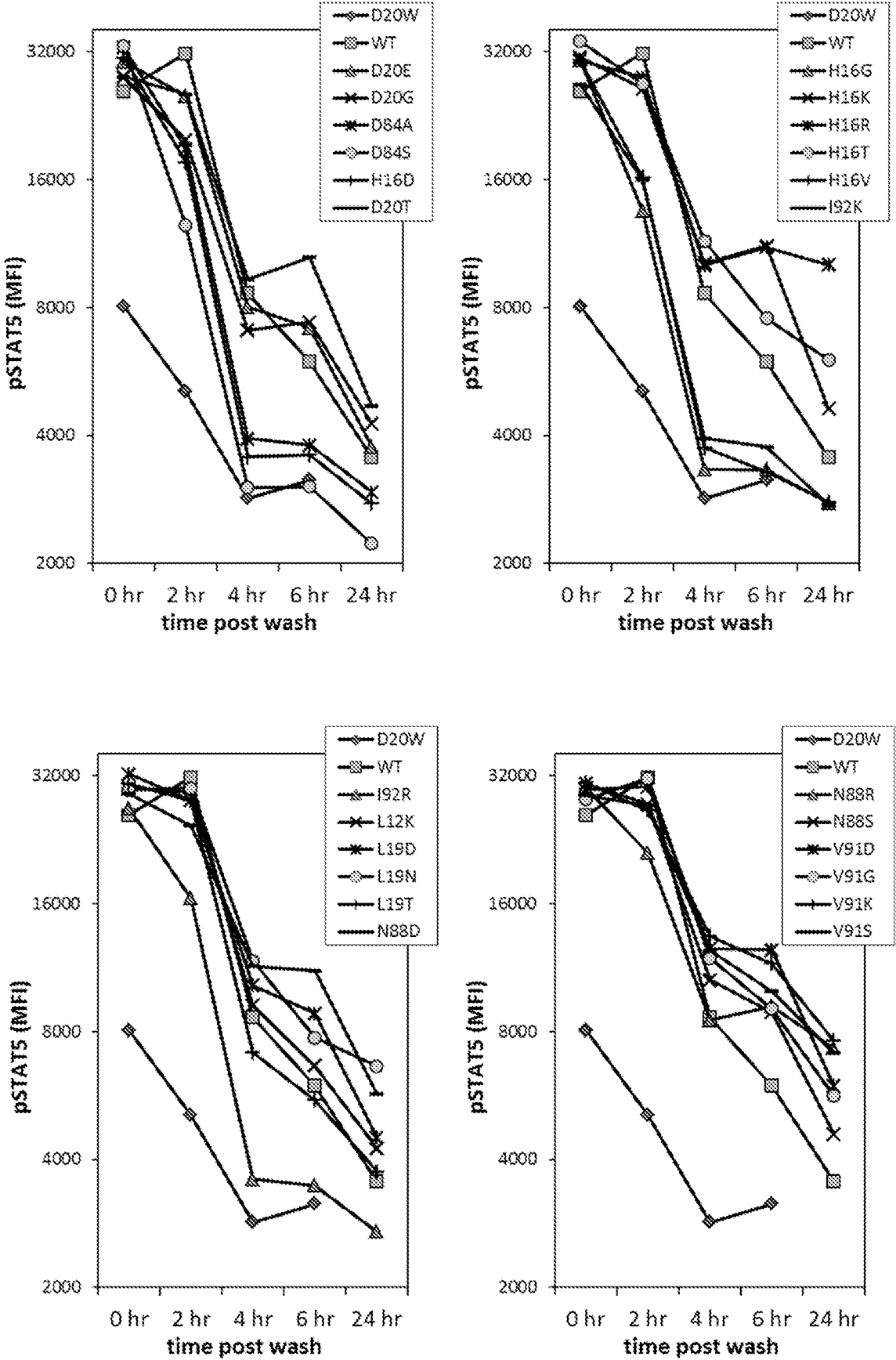


FIG. 22

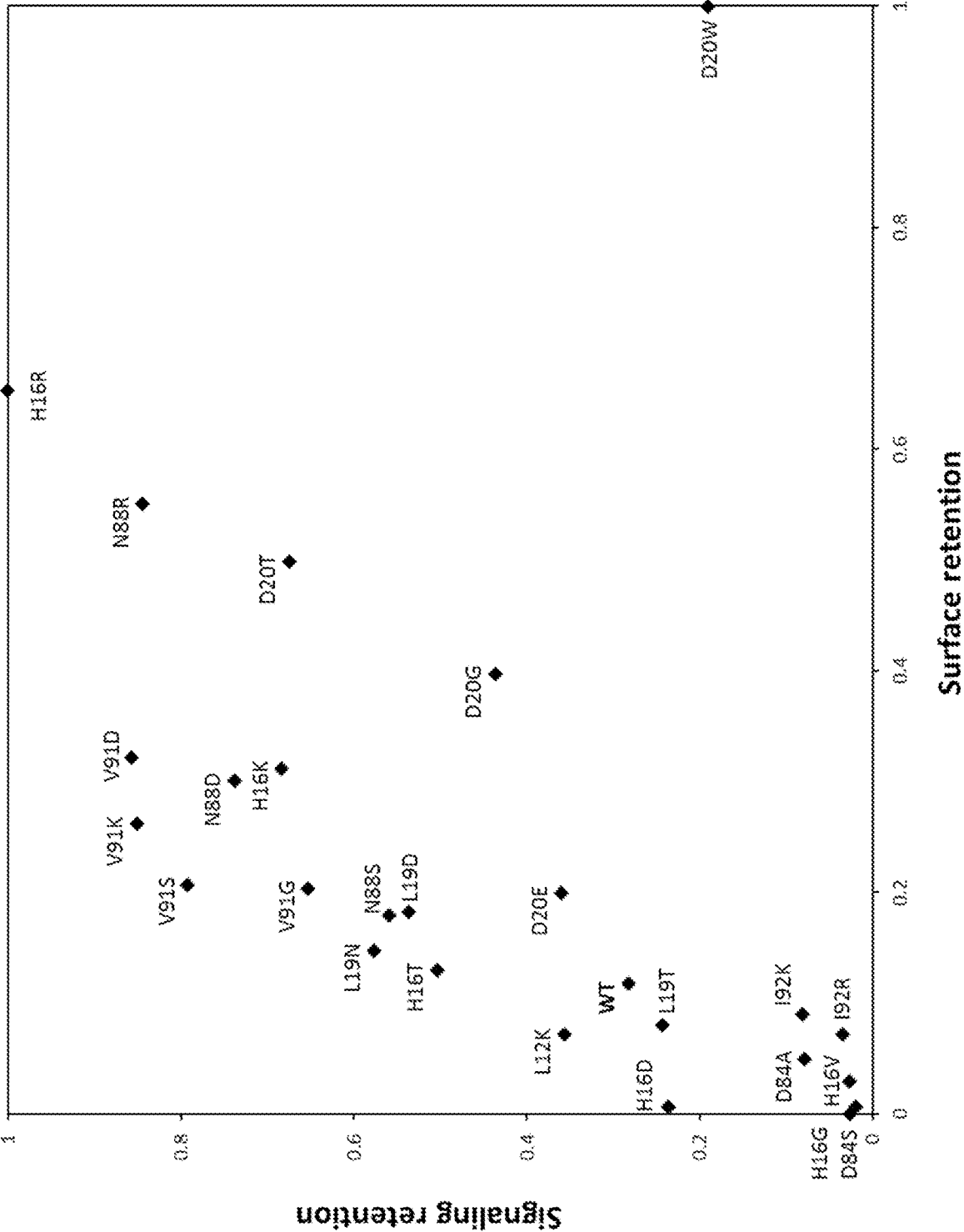


FIG. 23A

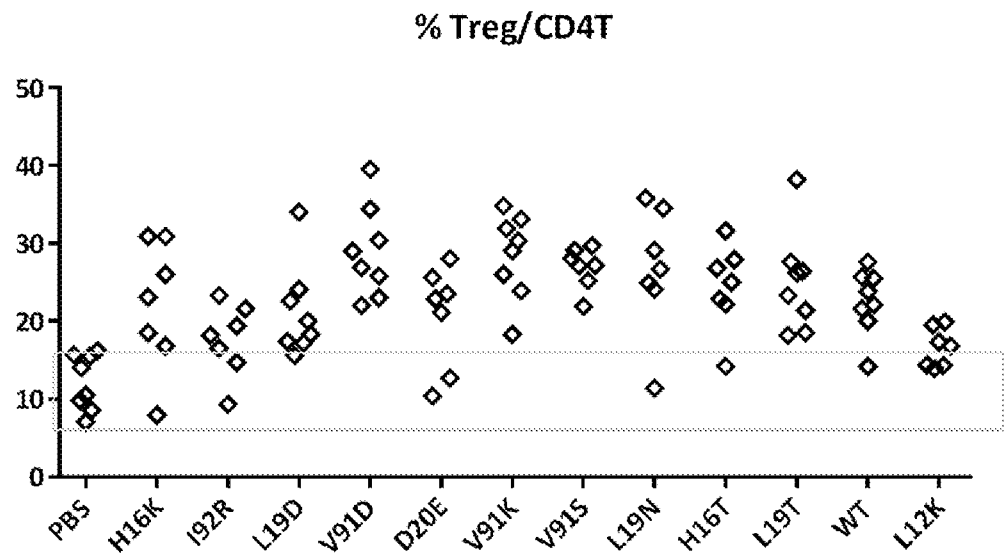


FIG. 23B

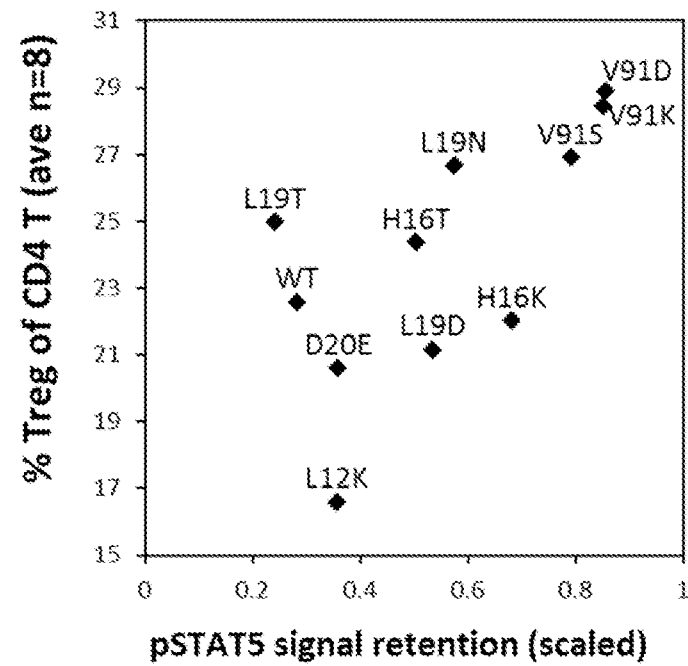


FIG. 24A Fc(N297G_delK)::G4S::IL-2(L12G, C125A)

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
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLGLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG GG
GGSAPTSSSTKKTQLQLAHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLGHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLSHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARC DKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEALLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG GG
GGSAPTSSSTKKTQLQLEDLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEGLLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEKLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEMLLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARC DKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLENLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLERLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLESLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLETLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEVLDDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEYLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLADLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLALQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLLELQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLLFQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLGLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLWLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQRLNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLAPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLGPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLSRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLTPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPG GG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRALISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRELISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRGLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRILISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRMLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRQLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRRLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRSLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRTLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLIRNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISAINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISEINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISFINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISGINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISMINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISSINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISVINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISWINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINDIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINEIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINGIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINSIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVKVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVRVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLGLK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 25A

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccc
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaaGGGcaatt
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acaagaatccaaagttgactcggatgttgacttttaagttttacatgcc
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtgga
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acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
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FIG. 25B

ggagcacttggttggttgacttgcaaatgatcttgaatggtatcaataatt
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aagaaggctactgagttgaagcacttgcaatggttgaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcggtggtatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtggtggtgga
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tgagggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
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ggagcacttggttggttgacttgcaaatgatcttgaatggtatcaataatt
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aagaaggctactgagttgaagcacttgcaatggttgaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcggtggtatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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FIG. 25C

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ggtggaagcgctccaacttccctccactaagaagactcaaTCGcaatt
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aagaaggctactgagttgaagcacttgcaatggttgaggaggagttgaa
gccattggaggaggttttgaatttggtcaatccaagaattttcacttgc
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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ctttgact

FIG. 25D

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
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ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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FIG. 25E

acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctccggacccctgaggtcacatgcgtggtggtgga
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tgagggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
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FIG. 25F

tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
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 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

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

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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 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)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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FIG. 25H

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cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(H16M, C125A)

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cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa

FIG. 25I

tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagAACTtggttggttgacttgcaaatgatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
 ctgaactcctggggggaccgtcagtccttcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
 tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcggcagc
 acgtaccgtgtggtcagcgtcctcacgctcctgcaccaggactggctgaa
 tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
 tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagCGCTtggttggttgacttgcaaatgatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

FIG. 25J

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtgggga
cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcggcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagAGCttgttggacttgcaaatgatcttgaatggtagtcaataatt
acaagaatccaaagttgactcggatgttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtgggga
cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcggcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagACCTtgttggacttgcaaatgatcttgaatggtagtcaataatt

FIG. 25K

acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgcgtgggtgggga
cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcggcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
gacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtccttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagGTCttgttgggtgacttgcaaatgatcttgaatgggtatcaataatt
acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgcgtgggtgggga
cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcggcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa

FIG. 25L

tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
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tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagTACttgttggacttgcaaagtatcttgaatggtatcaataatt
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
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tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgctcctcaccgctcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggttgGCGgacttgcaaagtatcttgaatggtatcaataatt
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ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

FIG. 25M

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggttgGATgacttgcaaatgatcttgaatggtatcaataatt
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aagaaggctactgagttgaagcacttgcaatggttgaggaggaggtgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggttgGAGgacttgcaaatgatcttgaatggtatcaataatt

FIG. 25N

acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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tgaggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagcccgagaaccacaggtg
tacaccctgcccccatcccgaggagatgaccaagaaccagggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
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caggtggcagcaggggaacgtccttctcatgctccgtgatgcatgaggctc
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ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagcacttggttGGGgacttgcaaatgatcttgaatggtatcaataatt
acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tgaggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa

FIG. 250

tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcttccccccaaaacccaag
gacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtgga
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tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
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agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggtgCGGgacttgcaaagtatcttgatggtatcaataatt
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

FIG. 25P

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tgaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
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IgG1Fc(N297G_delK)::G4S::hulL-2(L19T, C125A)

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FIG. 25Q

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

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

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

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FIG. 25U

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

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

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acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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CGccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacacgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccggacccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcacctgctcctgcaccaggactggctgaa

FIG. 25X

tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggagcacttggtggttgacttgcaaatgatcttgatggtatcaataatt
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacggGCCttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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acgtaccgtgtggtcagcgtcctcacgctcctgcaccaggactggctgaa
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ggccacggGAGttgatctccaatatcaatgtgatcgttttggagttgaag
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ctttgact

FIG. 25Y

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
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acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
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acaagaatccaaagttgactcggatggtgacttttaagttttacatgcca
aagaaggctactgagttgaagcacttgcaatggttgaggaggaggtgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacggGGCttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
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acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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FIG. 25Z

acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacggATCttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccgaccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
 tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
 acgtaccgtgtggtcagcgtcctcacctgctcctgcaccaggactggctgaa
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 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccagcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcacctgggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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 ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
 ggagcacttggtgttggtgacttgcaaatgatcttgaatggtatcaataatt
 acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacggATGttgatctccaatatcaatgtgatcgttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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 ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
 gacaccctcatgatctcccgaccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
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 acgtaccgtgtggtcagcgtcctcacctgctcctgcaccaggactggctgaa

FIG. 25AA

tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggtcaatccaagaattttcacttgc
ggccacggCAGttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
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gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
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tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcggcagc
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

FIG. 25BB

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
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tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
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ggagcacttggtggttgacttgcaaatgatcttgaatggtatcaataatt
acaagaatccaaagttgactcggatggtgacttttaagttttacatgcca
agaaggctactgagttgaagcacttgcaatggttggaggaggagttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacggAGCttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
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tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
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FIG. 25CC

acaagaatccaaagttgactcggatggttgacttttaagttttacatgccaa
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacggACCTtgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctccggacccctgaggtcacatgcgtggtggtgga
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ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctccggacccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
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FIG. 25DD

tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
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cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

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gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccGAGatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
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ctttgact

FIG. 25EE

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
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gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggagggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggtgttggtgacttgcaaatgatcttgatggtatcaataatt
acaagaatccaaagttgactcggatgttgacttttaagttttacatgcca
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccTTTatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
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gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
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tgcacaaccactacacgcagaagagcctctccctgtctccgggtggagggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggtgttggtgacttgcaaatgatcttgatggtatcaataatt

FIG. 25FF

acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccGGTatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctccggacccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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tacaccctgcccccatcccgaggagagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggagcacttggtgttggtgacttgcaaatgatcttgaatggtatcaataatt
acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccATGatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctccggacccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
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FIG. 25GG

tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
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gacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
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ggagcacttggtggttgacttgcaaatgatcttgaatggtatcaataatt
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggtcaatccaagaattttcacttgc
ggccacgggacttgatctccAGTatcaatgtgatcgttttggagttgaag
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cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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gacacctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
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tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcgcagc
acgtaccgtgtggtcagcgctcctcaccgctcctgcaccaggactggctgaa
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggtcaatccaagaattttcacttgc
ggccacgggacttgatctccGTatcaatgtgatcgttttggagttgaag
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ctttgact

FIG. 25HH

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
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acaagaatccaaagttgactcggatggtgacttttaagttttacatgcca
aagaaggctactgagttgaagcacttgcaatggttggaggaggagttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccTGGatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt

FIG. 25II

ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggtggttgacttgcaaatagatcttgatggtatcaataatt
acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatggttgaggaggagttgaa
gccattggaggaggttttgaatttggtcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatGATatcggttttgagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcggatggtggtcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
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gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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ggccacgggacttgatctccaatatcaatGAGatcggttttgagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcggatggtggtcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg

FIG. 25JJ

tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcacgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaagggtctccaacaaagccctcccagcccca
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccggaccctgaggtcacatgcgtgggtgggga
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acgtaccgtgtggtcagcgtcctcacgtcctgcaccaggactggctgaa
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatTCGatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat

FIG. 25KK

cgttgagtttttgaatcgggtggatcacttttgc tcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtgggga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
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ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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FIG. 25LL

gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
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tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
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aagaaggctactgagttgaagcacttgcaatggttgaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
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cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

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gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
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tggaaggagtacaagtgcaaggtctccaacaaagccctcccagccccc
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccagggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccagcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagcacttggttggttgacttgcaaatgatcttgaatggtatcaataatt
acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatggttgaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttgGGttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

FIG. 26 Light Chain Variable Domain Amino Acid Sequences

	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4
9D6	DIVMTQTPLSLPVTGPEPASI	<u>CRSSQSLLDSE</u> GNNTYLDWYLQKPGQSPQLLIY	<u>TL</u> SYRASGVDPDRFSGTSGSDTFTTLKISRVEADGVYYC	<u>MQR</u> IEFFPLTFGGG	TKVEIKR		
2C3	EIVLTQSPGTLSLSPGERATLS	<u>CRASQSFSSYL</u> WYQQKPGAPRLIIY	<u>GASSR</u> ATGIPDRFSGSGTDFTLTISRLEPEDFAVYYC	<u>QQY</u> GSSPLTFGGG	TKVEIKR		
14C9	DIVLTQTPLSSPVTLGQPASIS	<u>CRSSHLLHSD</u> GNNTYLSWLQORPGQPPRLIIY	<u>KISNR</u> FGVDPDRFTGSGTDFTLKISRVEADGVYYC	<u>MQT</u> TQFFTFGGG	TKVEIKR		
8B12	DIVMTQTPLSSPVTLGQPASIS	<u>CRSSQNLVQSD</u> GNNTYLSWLHQRPGQPPRLIIY	<u>KISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYFC	<u>MQT</u> TQFFTFGGG	TKVEIKR		
16A4	DIVMTQTPLSSPVTLGQPASIS	<u>CRSSQILLVNSD</u> GNNTYLSWLHQRPGQPPRLIIY	<u>KISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYYC	<u>MQT</u> TQFFTFGGG	TKVEIKR		
16E1	DIVMTQTPLSSPVTLGQPASIS	<u>CRSSQSLVRSD</u> GNNTYLSWLHQRPGQPPRLIIY	<u>KISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYYC	<u>MQT</u> TQFFTFGGG	TKVEIKR		
13A1	DIVMTQTPLSSPVTLGQPASIS	<u>CRSSSHSLVHSD</u> GNNTYLSWLQORPGQPPRLIIY	<u>KISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYYC	<u>MQT</u> TQFFTFGGG	TKVEIKR		
8F10	DIAMQSPLSLPVTGPEPASMCR	<u>SSQSLHSHNG</u> FNYLDWYLQKPGQSPQLII	<u>HLGSD</u> RASGVDPDRFSGSGTDFTLKISRVEADGVYYC	<u>MQA</u> LQTPPLTFGGG	TKVEIKR		
12C4	DIVMTQSPLSLPVTGPEPASI	<u>CRSSQSLHSHNG</u> FNYLDWFLQKPGQSPQLII	<u>YLGSD</u> RASGVDPDRFSGSGTDFTLKISRVEADGVYYC	<u>MQA</u> LQTPPLTFGGG	TKVEIKR		
9B12	DIVMTQSPLSLPVTGPEPASI	<u>CRSSQSLHSHNG</u> FNYLDWYLQKPGQSPQLII	<u>YLGSD</u> RASGVDPDRFSGSGTDFTLKISRVEADGVYYC	<u>MQA</u> LQTPPLTFGGG	TKVEIKR		
3H5	DIVMTQTPLSSPVTLGQPASIS	<u>CRSSQSLVNI</u> DGSTHLSWLQORPGQPPRLIIY	<u>KISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYYC	<u>MQT</u> TQFFTFGGG	TRLEIKR		
18A6	EIVMTQTPLSSPVTLGQPASIS	<u>CRSSQSLVQSD</u> GITYLSWLQORPGQPPRLIIY	<u>KISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYYC	<u>MQT</u> TQFFTFGGG	TKVEIKR		
10A6	DIVMTQTPLSSPVTLGQPASIS	<u>CRSSQSLVNSD</u> GNNTYINWLQORPGQPPRLIIY	<u>KISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYYC	<u>MQA</u> TQFFTFGGG	TKVEIKR		
10H7	DIVMTQTPLSSPVTLGQPASIS	<u>CRSSHNLVRSD</u> GNNTYLSWLQORPGQPPRLIIY	<u>KISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYYC	<u>MQA</u> TQFFTFGGG	TRLEIKR		
15A10	NIVMTQTPLSSPVTLGQPASIS	<u>CRSSQSLVQ</u> TGNTYLSWLQORPGQPPRLIIY	<u>KISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYYC	<u>MQT</u> TQFFTFGGG	TRLEIKR		
12D2	DIVMTQTPLSSPVTLGQPASIS	<u>CRSSHNLHSD</u> GNNTYLSWLHQRPGQPPRLIIY	<u>KISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYYC	<u>MQT</u> SQFFTFGGG	TKVEIKR		
9B10	DIVMTQTPLSSPVTLGQPASIS	<u>CRSSHNLHSD</u> GNNTYLSWLQORPGQPPRLIIY	<u>YEISNR</u> FGVDPDRFSGSGAGTDFTLKISRVEADGVYYC	<u>MQT</u> TQFFTFGGG	TKVEIKR		
17D3	EIVLTQSPGTLSLSPGERATLS	<u>CRASQSVSSS</u> YLAWYQQKPGAPRLIIY	<u>GASSR</u> ATGIPDRFSGSGTDFTLTISRLEPEDFAVYYC	<u>QQY</u> GSSPLTFGGG	TKVEIKR		
15G11	EIVLTQSPGTLSLSPGERATLS	<u>CRASQSVSSR</u> YLAWYQQKPGAPRLIIH	<u>GFPSR</u> ATGIPDRFSGSGTDFTLTISRLEPEDFAVYYC	<u>QQY</u> GNSSITFGG	TRLEIKR		
14D7	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQ</u> TISSYLNWYQQKPKAPKRLIIY	<u>AASSFQ</u> SGVPSRFSGSGTDFTLTISLQPEDFATYCY	<u>QQSHY</u> IPRTFGG	TKVEIKR		
18F3	SYELTQPPSVSPGQTARIAC	<u>SGDALPRKF</u> FAYWYQQKSGQAPVLIV	<u>EDSR</u> RPSSGIPERFSGSSGTMTALTISGAQVEADYCY	<u>FSTD</u> SSANHRVFGG	TKLTVLG		
17D9	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQ</u> DIRNDLGWYQQKPKAPKRLIIY	<u>AASSLQ</u> SGVPSRFSGSGTEFTLTIGSLQPEDFTTYCY	<u>CLQHN</u> SYPLTFGGG	TKVEIKR		
21F8	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQ</u> IRDDLGWYQQKPKAPKRLIIY	<u>ATSLQ</u> SGVPSRFSGSGTEFTLTISLQPEDFATYCY	<u>CLQHS</u> YPWTFGG	TKVEIKR		
22B9	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQ</u> IRDDLGWYQQKPKAPKRLIIY	<u>VASSLQ</u> SGVPSRFSGSGTEFTLTISLQPEDFATYCY	<u>CLQHS</u> YPWTFGG	TKVEIKR		
21D10	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQ</u> IRDDLGWYQQKPKAPKRLIIY	<u>VVSSLQ</u> SGVPSRFSGSGTEFTLTISLQPEDFATYCY	<u>CLQHN</u> GYPWTFGG	TKVEIKR		
14A6	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQ</u> GIGDDLGWYQQKPKAPQRLIIY	<u>SASSLP</u> SGVPSRFSGSGTEFTLTISLQPEDFATYCY	<u>CLQHN</u> SYPRSFGG	TKLEIRR		
11D6	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQ</u> IEHDLGWYQQKPKAPKRLIIY	<u>AASLT</u> PSGVPSRFSGSGTEFTLTISLQPEDFATYCY	<u>CLQHN</u> SFPRSFGG	TQLEIKR		
10A9	DIVMTQTPLSLPVTGPEPASI	<u>CRSSQSLLDGDD</u> GNNTLWYLQKPGQSPQLIIY	<u>TL</u> SYRASGVDPDRFSGSGTDFTLKISRVEADGVYYC	<u>MQR</u> LEFFPLTFGGG	TKVEIKR		
16E3	DIVMTQTPLSLPVTGPEPASI	<u>CRSSQSLLDSE</u> GNNTFLDWYLQKPGQPPQLIIY	<u>TL</u> SYRASGVDPDRFSGSGTDFTLKISRVEADGVYYC	<u>MQR</u> IEFFPLTFGGG	TKVEIKR		
14G7	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQ</u> DISNYLNWYQQKPKAPKRLIIY	<u>DASN</u> LETGVPSRFSGSETDFTTISLQPEDFATYCY	<u>QQYEN</u> LPTFGP	GKVDIKR		
5H3	SYELTQPPSVSPGQTARITC	<u>SGDALPRQ</u> YAYWYQQKPGQAPMLVIY	<u>KDSE</u> RPSSGIPERFSGSSGTVTLTISGVAEADYCY	<u>QSA</u> DSSGTYVVF	FGG	TKLTVLG	
2B12	SYELTQPPSVSPGQTARITC	<u>SGDALPRK</u> YAYWYQQKSGQAPVLVIY	<u>EDSK</u> RPSSGIPERFSGSSGTMTALTISGAQVEADYCY	<u>YSTD</u> SSGNHYVFG	TG	TKVTVLG	
26H7	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQ</u> DISNYLNWYQQKPKAPKRLIIY	<u>DASN</u> LETGVPSRFSGSGTDFFTTISNLQPEDFATYCY	<u>QQDDN</u> LPTFGP	G	TKVDIKR	
26C12	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQ</u> DISNYLNWYQQKPKAPKRLIIY	<u>DASN</u> LETGVPSRFSGSGTDFFTTISNLQPEDFATYCY	<u>QQYDN</u> LPTFGP	G	TKVDIKR	
2H11	SYELTQPPSVSPGQTARITC	<u>SGDALPRKF</u> FAYWYQQKSGQAPVLVIY	<u>EDKR</u> RPSSGIPERFSGSSGTMTALTISGAQVEADYCY	<u>YSTDR</u> SGDHVFGG	T	TKLTVLG	
18H9	DIQMTQSPSSVSASVGDRVTIT	<u>CRASQ</u> GISNLWYQQKPKGPKPRLIIY	<u>AASSLQ</u> NGVPSRFSGSGTDFTLTISLQTEDFATYCY	<u>QQA</u> LSFPWTFGP	G	TKVEVCR	

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

9D6

GATATTGTGATGACCCAGACTCCACTCTCCTTGCCCGTCACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAGAGCCTCTTAGATAGTGATGAGGGAAACACCTATTTGGACTGGTACCTGCAGAAGCCAGGGCAGTCTCCACA
GCTCCTGATCTATACGCTTTCCTATCGGGCCTCTGGAGTCCCAGACAGGTTCA GTGGCACTGGGTCAGACACTGAT
TTCACACTGAAAATCAGCAGGGTGGAGGCTGAGGATGTTGGAGTTTATTACTGCATGCAACGTATAGAGTTTCCTC
TCACTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

2C3

GAAATTGTATTGACGCAGTCTCCAGGCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCA
GTCAGAGTTTTAGCAGCAGCTACTTAGTCTGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGG
TGCATCCAGCAGGGCCACTGGCATCCCAGACAGGTTGGTGGCAGTGGGTCTGGGACAGACTTCACTCTCACCAT
CAGCAGACTGGAGCCTGAAGATTTTGCAGTGTATTACTGTCAGCAGTATGGTAGCTCACCTCTCACTTTCGGCGGA
GGGACCAAGGTGGAGATCAAACGA

14C9

GATATTGTGCTGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCATCACCTCATACACAGTGATGGAAACACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGACAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGAAAGCTGGGGATGTCGGGGTTTATTACTGCATGCAAACCTACACAATTTCCGACGT
TCGGCCAAGGGACCAAGGTGGAAATCAAACGA

8B12

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCCAG
TCAAAACCTCGTTCAAAGTGATGGAAACACCTACTTGAGTTGGCTTCACCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGAAAGCTGAGGATGTCGGGGTTTATTTCTGCATGCAAACCTACACAATTTCCGACGTT
CGGCCAAGGGACCAAGGTGGAAATCAAACGA

FIG. 27B

16A4

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATTTCTGCAGGTCTAG
TCAAATCCTCGTAAACAGTGATGGAAACACCTACTTGAGTTGGCTTCACCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACCTACACAATTTCCGACGT
TCGGCCAAGGGACCAAGGTGGAAATCAAACGA

16E1

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAAAGCCTCGTACGCAGTGATGGAAACACCTACTTGAGTTGGCTTCACCAGAGGCCAGGCCAGCCTCCAAGACT
CCTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
ACACTGAAAATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACCTACACAATTTCCGACG
TTCGGCCAAGGGACCAAGGTGGAAATCAAACGA

13A1

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCACAGCCTCGTACACAGTGATGGACACACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACTC
CTACTTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACCTACACAATTTCCCACTTT
CGGCGGAGGGACCAAGGTGGAGATCAAACGA

8F10

GATATTGCGATGAGTCAGTCTCCACTCTCCCTGCCCCTGACCCCTGGAGAGCCGGCCTCCATGTCATGCAGGTCTA
GTCAGAGCCTCCTGCATAGTAATGGATTCAACTATTTGGATTGGTACCTGCAGAAGCCAGGGCAGTCTCCACAGGT
CCTGATCCATTTGGGTTCTGATCGGGCCTCCGGGGTCCCTGACAGGTTCACTGGCAGTGGATCAGGCACAGATTTT
ACATTGAAAATCAGCAGAGTGGAGGCTGAGGATGTTGGAATTTATTACTGCATGCAAGCTCTACAAACTCCTCTCA
CTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

FIG. 27C

12C4

GATATTGTGATGACTCAGTCTCCACTCTCCCTGCCCGTCACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAGAGCCTCCTACATAGTAATGGATTCAACTATTTGGATTGGTTCCTGCAGAAGCCAGGACAGTCTCCACAGCCC
CTGATCTATTTGGGTTCTGATCGGGCCTCCGGGGTCCCTGACAGGTTCAGTGGCAGTGGATCAGGCACAGATTTTA
CACTGAAAATCAGCAGAGTGGAGGCTGAGGATGTTGGGGTTTATTACTGCATGCAAGCTCTACAAACTCCGCTCA
CTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

9B12

GATATTGTGATGACTCAGTCTCCACTCTCCCTGCCCGTCACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAGAGCCTCCTGCATAGTAATGGATTCAACTATTTGGATTGGTACCTGCAGAAGCCAGGGCAGTCTCCACAGCTC
CTGATCTATTTGGGTTCTGATCGGGCCTCCGGGGTCCCTGACAGGTTCAGTGGCAGTGGATCAGGCACAGATTTTA
CACTGAAAATCAGCAGAGTGGAGGCTGAGGATGTTGGGGTTTATTACTGCATGCAAGCTCTACAAACTCCGCTCA
CTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

3H5

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCCTGGACAGCCGGCCTCCATATCCTGCAGGTCCAG
TCAAAGCCTCGTAAACATTGATGGAAGTACCCACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACT
CCTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTTCA
CACTGAAGATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACTACACAATTTCCCCACC
TTCGGCCAAGGGACACGACTGGAGATTAAACGA

18A6

GAAATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCCTGGACAGCCGGCCTCCATTTCTGCAGGTCTAG
TCAAAGCCTCGTTCAGAGTGATGGAATCACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
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
CACTGAAAATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACTTCACAGTTTCCCCTTT
CGGCGGAGGGACCAAGGTGGAGATCAAACGA

FIG. 27E

9B10

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCATAACCTCCTACACAGTGATGGAAACACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATGAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAAGTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGGAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAGTTACACAATTTCCCACTTT
CGGCGGCGGGACCAAGGTGGAGATCAAACGA

17D3

GAAATTGTGTTGACGCAGTCTCCAGGCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCA
GTCAGAGTGTTAGCAGCAGCTACTTAGCCTGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGG
TGCATCCAGCAGGGCCACTGGCATCCCAGACAGGTTCAAGTGGCAGTGGGTCTGGGACAGACTTCACTCTCACCAT
CAGCAGACTGGAGCCTGAAGATTTTGCAGTGTATTACTGTCAGCAGTATGGTAGCTCACCGCTCACTTTCGGCGGA
GGGACCAAGGTGGAGATCAAACGA

15G11

GAAATTGTGTTGACGCAGTCTCCAGGCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGTAGGGCCA
GTCAGAGTGTTAGCAGCAGGTACTTAGCCTGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCCATG
GTCCATTCAGCAGGGCCACTGGCATCCCAGACAGGTTCAAGTGGCAGTGGGTCTGGGACAGATTTCACTCTCACCAT
CAGCAGACTGGAGCCTGAAGATTTTGCAGTGTATTACTGTCAGCAGTATGGTAATTCATCGATCACCTTCGGCCAA
GGGACACGACTGGAGATTAAACGA

14D7

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGACCATTAGCAGTTATTTAAATTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGGTCCTGATCTATGCTGC
ATCCAGTTTCCAAAGTGGGGTCCCATCAAGGTTCAAGTGGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGC
AGTCTGCAACCTGAAGATTTTGCAACTTACTACTGTCAACAGAGTCACTATATCCCTCGGACGTTTCGGCCAAGGGA
CCAAGGTGGAAATCAAACGA

FIG. 27F

18F3

TCCTATGAGCTGACACAGCCACCCTCGGTGTCAAGTGTCCCCAGGACAAACGGCCAGGATCGCCTGCTCTGGAGAT
GCATTGCCAAGAAAATTTGCTTATTGGTACCAGCAGAAGTCAGGCCAGGCCCTGTGCTGGTCATCTCTGAGGACA
GCAGACGACCCTCCGGGATCCCTGAGAGATTCTCTGGCTCCAGCTCAGGGACAATGGCCACCTTGACTATCAGTG
GGGCCCAGGTGGAGGATGAAGCTGACTACTACTGTTTCTCAACAGACAGCAGTGCTAATCATAGGGTATTCGGCG
GAGGGACCAAGCTGACCGTCCTAGGT

17D9

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATTAGAAATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGCTG
CATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTAGCGGCAGTGGATCTGGGACAGAATTCACTCTACAATCG
GCAGCCTGCAGCCTGAAGATTTTACAACCTTATTACTGTCTACAGCATAATAGTTACCCGCTCACTTTCGGCGGAGG
GACCAAGGTGGAGATCAAACGA

21F8

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGGCATTAGAGATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATATTG
CAACCAGTTTGCAAAGTGGGGTCCCATCAAGGTTAGCGGCAGTGGATCTGGGACAGAATTCACTCTACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATATTAGTTACCCGTGGACGTTTCGGCCAAGG
GACCAAGGTGGAAATCAAACGA

22B9

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATCAGAGATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGTTG
CATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTAGCGGCAGTGGATCTGGGACAGAATTCACTCTACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATATTAGTTACCCGTGGACGTTTCGGCCAAGG
GACCAAGGTGGAAATCAAACGA

FIG. 27G

21D10

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATTAGAGATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGTTG
TATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTGAGCGGCAGTGGATCTGGGACAGAGTTCACTCTCACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATAATGGTTACCCGTGGACGTTGCGCCAAGG
GACCAAGGTGGAAATCAAACGA

14A6

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGGCATTGGAGATGATTTAGGCTGGTATCAGCAGAAGCCAGGAAAAGCCCCTCAGCGCCTGATCTATTCTG
CATCCAGTTTGCCAAGTGGGGTCCCATCAAGGTTGAGCGGCAGTGGATCTGGGACAGAATTCCTCTCACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATAATAGTTACCCTCGCAGTTTTGGCCAGGG
GACCAAGCTGGAGATCAGACGA

11D6

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATTGAACATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGCTG
CATCCACTTTGCCAAGTGGGGTCCCATCAAGGTTGAGCGGCAGTGGATCTGGGACAGAATTCCTCTCACAATCAG
CAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATAATAGTTTCCCTCGCAGTTTTGGCCAGGGGA
CCCAGCTGGAGATCAAACGA

10A9

GATATTGTGATGACCCAGACTCCACTCTCCCTGCCCCTGACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAC
TCAGAGCCTCTTGATGGTATGATGGAAACACCCCTTTGGACTGGTACCTGCAGAAGCCAGGGCAGTCTCCACA
GCTCCTGATCTATACGCTTTCCTATCGGGCCTCTGGAGTCCCAGACAGGTTCACTGGCAGTGGGTGAGGCACTGAT
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
GCATTGCCAAGAAAAATTTGCTTATTGGTACCAGCAGAAGTCAGGCCAGGCCCTGTGCTGGTCATCTATGAGGAC
AGGAAACGACCCTCCGGGATCCCTGAGAGATTCTCTGGCTCCAGCTCAGGGACAATGGCCACCTTGACTATCAGT
GGGGCCCAGGTGGAGGATGAAGCTGACTACTACTGTTACTCAACAGACCGCAGTGGTGATCATGTGGTATTCGGC
GGAGGGACCAAGCTGACCGTCCTAGGT

18H9

GACATCCAGATGACCCAGTCTCCATCTTCCGTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGTCGGGCGA
GTCAGGGTATTAGCAACTGGTTAGTCTGGTATCAGCAGAAACCAGGGAAACCCCCTAAACTCCTGATCTATGCTGC
ATCCAGTTTGCAAATGGGGTCCCATCAAGATTCAGCGGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGC
AGCCTGCAGACTGAAGATTTTGCAACTTACTATTGTCAACAGGCTCTCAGTTTCCCGTGGACGTTTCGGCCCAGGGA
CCAAGGTGGAAGTCAAACGA

FIG. 28 Heavy Chain Variable Domain Amino Acid Sequences

	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4
9D6	EVQLVQSGAEVKKPESGSLKISCKGSGYRFT	<u>SYWIG</u> WVRQMPGKGLEWVGIIHPGSDTRISPSFQGGVTISADKSI	TAYLQWSSLKASDTAIYYCFR	<u>QGRSFYY</u> YIGMDVWGQGT	TVTVSS		
2C3	EVQLVQSGAEVKKPESGSLKISCKGSGYRFT	<u>SYWIG</u> WVRQMPGKGLEWVGIIHPGSDTRISPSFQGGVTISADKSI	AAAYLQWSSLKASDTAMYYCAR	<u>QQVAGMLD</u> YWGQGT	TVTVSS		
14C9	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>IYGMH</u> WVRQAPGKGLEWTVIWDGSGNEYYADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>EDFDSHY</u> GMDVWGQGT	TVTVSS		
8B12	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWVAVIWDGSGNEYYADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>EEWFGEAD</u> YGM	YWGQGT	TVTVSS	
16A4	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWVAVIWDGSGNEYYADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>DDWFGEAD</u> YGM	YWGQGT	TVTVSS	
16E1	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWTVIWDGSGNEYYADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>EDWLG</u> EADYGM	YWGQGT	TVTVSS	
13A1	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWVAVIWDGSKNYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>EEWELED</u> YGM	YWGQGT	TVTVSS	
8F10	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWVAVIWDGSKNYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>GAVAGTGRD</u> YYIYGMDVWGQGT	TVTVSS		
12C4	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWVAVIWDGSKNYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>GAVAGTGRD</u> YYIYGMDVWGQGT	TVTVSS		
9B12	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWVAVIWDGSKNYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>DDFWS</u> DYPF	YWGQGT	TVTVSS	
3H5	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SFGMH</u> WVRQAPGKGLEWVAVIWDGSKNYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>DLYSSAW</u> PF	YWGQGT	TVTVSS	
18A6	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWVAVIWDGSKNYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>DGEQNR</u> GF	YWGQGT	TVTVSS	
10A6	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYD</u> IHWVRQAPGKGLEWVAVIWDGSIKYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>DGEQNR</u> GF	YWGQGT	TVTVSS	
10H7	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYD</u> IHWVRQAPGKGLEWVAVIWDGSIKYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>DGEQNR</u> GF	YWGQGT	TVTVSS	
15A10	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>TYGMH</u> WVRQAPDMGLEWVAVIWDGSKNYIADSVKGRFTISRDI	SKNTLYLQWSSLRAEDTAVYYCAR	<u>DNWGSD</u> AF	DIWGQGT	TVTVSS	
12D2	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>TYAMH</u> WVRQAPGKGLEWVAVIWDGINKYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>GSYYDSS</u> GYFY	GBDFDYWGQGT	TVTVSS	
9B10	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYAMH</u> WVRQAPGKGLEWVAVIWDGINKYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>GSYYDSS</u> GYFY	GBDFDYWGQGT	TVTVSS	
17D3	QVQLVESGGGLVKGPGSLSLCAASGFTFS	<u>DYIMS</u> WVRQAPGKGLEWVSYYSSSGSIIFYADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>RISIT</u> PF	YWGQGT	TVTVSS	
15G11	QVTLKESGPVLVKPTETLTCTVSGFSL	<u>NARMGVS</u> WIRQPPGKALEWLAHIFSNDEKSYSTSLKSRVTISV	DTSKNQFSLKLSVIAADTAVYYCAR	<u>DWGRDA</u> FDI	WGQGT	TVTVSS	
14D7	QVQLQESGPGLVKPSQTLTCTVSGGSI	<u>SGGYYWN</u> WIRQHPGKGLEWICYYISGNTHYNP	SLKSRVTISVDTSKNQFSLKLSVIAADTAVYYCAR	<u>EGRFG</u> ELGSYYFDYWGQGT	TVTVSS		
18F3	QVQLQESGPGLVKPSQTLTCTVSGGSI	<u>SGGYYWS</u> WIRQHPGKGLEWICYYISGNTHYNP	SLKSRVTISVDTSKNQFSLKLSVIAADTAVYYCAR	<u>EGRFG</u> ELGSYYFDYWGQGT	TVTVSS		
17D9	QVQLQESGPGLVKPSQTLTCTVSGGSI	<u>SGGYYWS</u> WIRQPPGKGLEWICNTYYSGSTNYK	PSLKSRTVTSVDTSKNQFSLKLSVIAADTAVYYCAR	<u>DRGR</u> AVGPF	YWGQGT	TVTVSS	
21F8	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYD</u> INWVRQATGQGLEWVGWNPNSGNTGYAQK	FGQGRVTMTNRTSISTAYMELSSLRSEDTAVYYCAR	<u>SRQWL</u> VDYWGQGT	TVTVSS		
22B9	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYD</u> INWVRQATGQGLEWVGWNPNSGNTGYAQK	FGQGRVTMTNRTSISTAYMELSSLRSEDTAVYYCAR	<u>SRQWL</u> VDYWGQGT	TVTVSS		
21D10	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYD</u> INWVRQATGQGLEWVGWNPNSGNTGYAQK	FGQGRVTMTNRTSISTAYMELSSLRSEDTAVYYCAR	<u>SRQWL</u> VDYWGQGT	TVTVSS		
14A6	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>TYD</u> INWVRQATGQGLEWVGWNPNSGNTGYAQK	FGQGRVTMTNRTSISTAYMELSSLRSEDTAVYYCAR	<u>GRQWL</u> GF	YWGQGT	TVTVSS	
11D6	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYD</u> INWVRQATGQGLEWVGWNPNSGNTGYAQK	FGQGRVTMTNRTSISTAYMELSSLRSEDTAVYYCAR	<u>GRQWL</u> GF	YWGQGT	TVTVSS	
10A9	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>QWIG</u> WVRQMPGKGLEWVGIIHPGSDTRISPSFQGGVTISADKSI	TAYLQWSSLKASDTAMYYCAR	<u>QGRS</u> HYHYGM	YWGQGT	TVTVSS	
16E3	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLEWVGIIHPGSDTRISPSFQGGVTISADKSI	TAYLQWSSLKASDTAMYYCAR	<u>QGRS</u> HYHYFGMDVWGQGT	TVTVSS		
14G7	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLEWVGIIHPGSDTRISPSFQGGVTISADKSI	TAYLQWSSLKASDTAMYYCAR	<u>HRG</u> GSYYIYGM	YWGQGT	TVTVSS	
5H3	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLEWVGIIHPGSDTRISPSFQGGVTISADKSI	TAYLQWSSLKASDTAMYYCAR	<u>EGF</u> GESIHYGLD	YWGQGT	TVTVSS	
2B12	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLEWVGIIHPGSDTRISPSFQGGVTISADKSI	TAYLQWSSLKASDTAMYYCAR	<u>HGG</u> WSGSGMDVWGQGT	TVTVSS		
26H7	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLEWVGIIHPGSDTRISPSFQGGVTISADKSI	TAYLQWSSLKASDTAMYYCAR	<u>HGG</u> YSGRSYYIYGM	YWGQGT	TVTVSS	
26C12	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLEWVGIIHPGSDTRISPSFQGGVTISADKSI	TAYLQWSSLKASDTAIYYCAR	<u>HGH</u> GSSSGR	TYIYGLD	YWGQGT	TVTVSS
2H11	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>TYWIG</u> WVRQMPGKGLEWVGIIHPGSDTRISPSFQGGVTISADKSI	TAYLQWSSLKASDTAIYYCAR	<u>DTG</u> YFDYWGQGT	TVTVSS		
18H9	QVQLVESGGGVVQPGRLSLCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWVAVIWDGSKNYIADSVKGRFTISRDN	SKNTLYLQWSSLRAEDTAVYYCAR	<u>PGSD</u> YIFY	YGM	YWGQGT	TVTVSS

FIG. 28 Heavy Chain Variable Domain Amino Acid Sequences (CONT'D)

	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4
9D6	EVQLVQSGAEVKKPESGSLKISCKGSGYRFT	<u>SYWIG</u> WVRQMPGKGLEWVG	<u>IIHPGSD</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR <u>QGRSFYY</u> IGMDVWGQGT	TVTVSS
2C3	EVQLVQSGAEVKKPESGSLKISCKGSGYRFT	<u>SYWIG</u> WVRQMPGKGLEWVG	<u>IIYPGSD</u> TRISPSFQ	QVTTISADKSI	AAAYLQWSSLKASD	TAIYYCAR <u>QQVAGMLD</u> YWGQGT	TVTVSS
14C9	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>IYGMH</u> WVRQAPGKGLEWV	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>EDFDSHY</u> GMDVWGQGT	TVTVSS
8B12	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWV	<u>AVIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>EEWFGEAD</u> YGMDVWGQGT	TVTVSS
16A4	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWV	<u>AVIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>DDWFGEAD</u> YGMDVWGQGT	TVTVSS
16E1	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWV	<u>VIWNDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>EDWLGEAD</u> YGMDVWGQGT	TVTVSS
13A1	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWV	<u>VIWYDGS</u> NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>EEWELED</u> YGMDVWGQGT	TVTVSS
8F10	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWV	<u>VIWYDGS</u> NKIYVDSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>GAVAGTGRD</u> YYIYGMDVWGQGT	TVTVSS
12C4	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWV	<u>VIWYDGS</u> NKIYHSDSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>GAVAGTGRD</u> YYIYGMDVWGQGT	TVTVSS
9B12	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWV	<u>VIWYDGS</u> NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>QVAGTGRD</u> YYIYGMDVWGQGT	TVTVSS
3H5	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SFGMH</u> WVRQAPGKGLEWV	<u>VIWFDGS</u> NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>DDFWSDY</u> PFDIYWGQGT	TVTVSS
18A6	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWV	<u>VIWYDGS</u> NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>DLYSSAW</u> PFDIYWGQGT	TVTVSS
10A6	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYDIH</u> WVRQAPGKGLEWV	<u>VIWYDGS</u> IKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>DGEQNRG</u> FDIYWGQGT	TVTVSS
10H7	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYDIH</u> WVRQAPGKGLEWV	<u>VIWYDGS</u> IKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>DGEQWLAF</u> DIYWGQGT	TVTVSS
15A10	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>TYGMH</u> WVRQAPGKGLEWV	<u>VIWYDGS</u> NKIYADSVK	GRFTISRDI	SKNTLYLQWSSLRAED	TAIYYCAR <u>DNWGSDAF</u> DIYWGQGT	TVTVSS
12D2	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>TYAMH</u> WVRQAPGKGLEWV	<u>VIWYDGI</u> NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>GSYYDSS</u> GYIYFGRD	FDIYWGQGT
9B10	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYAMH</u> WVRQAPGKGLEWV	<u>VIWYDGI</u> NKIYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>GSYYDSS</u> GYIYFGRD	FDIYWGQGT
17D3	QVQLVESGGGLVKPGGSLRLKSCAASGFTFS	<u>DYIYMS</u> WVRQAPGKGLEWV	<u>YIYSSSGS</u> IIFYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>RI</u> ITFFDIYWGQGT	TVTVSS
15G11	QVTLKESGPIVLKPTETLTCTVSGFSL	<u>NARMGVS</u> WVRQAPGKGLEWV	<u>VIWYDGI</u> NKIYADSVK	GRFTISRDI	SKNTLYLQWSSLRAED	TAIYYCAR <u>IPRWLQ</u> PPYIYIYGMDVWGQGT	TVTVSS
14D7	QVQLQESGPIVLKPSQTLTCTVSGGSI	<u>SGGYYWN</u> WVRQHPGKGLEWV	<u>YIYISGN</u> THYNPILK	SRVTISVDT	SKNQFSLKLSVIA	ADTAIYYCAR <u>DWGRDAF</u> DIWGQGT	TVTVSS
18F3	QVQLQESGPIVLKPSQTLTCTVSGGSI	<u>SGGYYWS</u> WVRQHPGKGLEWV	<u>YIYISGS</u> TDYNPILK	SRVTISVDT	SKNQFSLKLSVIA	ADTAIYYCAR <u>EGRFGE</u> LGSYIYFDIYWGQGT	TVTVSS
17D9	QVQLQESGPIVLKPSQTLTCTVSGGSI	<u>SGGYYWS</u> WVRQHPGKGLEWV	<u>YIYISGS</u> TDYNPILK	SRVTISVDT	SKNQFSLKLSVIA	ADTAIYYCAR <u>DRGR</u> AVGPFDIYWGQGT	TVTVSS
21F8	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYDIN</u> WVRQATGQGLEWVG	<u>WMNPNS</u> GNITGYAQK	FGQGRVTMT	RNTSISTAYME	LSSLRSED	TAIYYCAR <u>SRQWL</u> VLDIYWGQGT
22B9	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYDIN</u> WVRQATGQGLEWVG	<u>WMNPNS</u> GNITGYAQK	FGQGRVTMT	RNTSISTAYME	LSSLRSED	TAIYYCAR <u>SRQWL</u> VLDIYWGQGT
21D10	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYDIN</u> WVRQATGQGLEWVG	<u>WMNPNS</u> GNITGYAQK	FGQGRVTMT	RNTSISTAYME	LSSLRSED	TAIYYCAR <u>SRQWL</u> VLDIYWGQGT
14A6	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>TYDIN</u> WVRQATGQGLEWVG	<u>WMNPNS</u> GNITGYAQK	FGQGRVTMT	RNTSISTAYME	LSSLRSED	TAIYYCAR <u>GRQWL</u> GFDIYWGQGT
11D6	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYDIN</u> WVRQATGQGLEWVG	<u>WMNPNS</u> GNITGYAQK	FGQGRVTMT	RNTSISTAYME	LSSLRSED	TAIYYCAR <u>GRQWL</u> GFDIYWGQGT
10A9	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>QWIGW</u> VRQMPGKGLEWVG	<u>IIIPGDS</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR <u>QGRSHYY</u> IGMDVWGQGT	TVTVSS
16E3	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLEWVG	<u>TIYPGDS</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR <u>QGRSHYY</u> IGMDVWGQGT	TVTVSS
14G7	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLEWVG	<u>IIYPYDS</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR <u>HRGGRSHYY</u> IGMDVWGQGT	TVTVSS
5H3	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLEWVG	<u>IIYPGDS</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR <u>EGFGE</u> SHIYGLD	YWGQGT
2B12	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLEWVG	<u>IIYPGDS</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR <u>HGGG</u> WSGMDVWGQGT	TVTVSS
26H7	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLEWVG	<u>IIYPGDS</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR <u>HGGYGR</u> SHYYIGMDVWGQGT	TVTVSS
26C12	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLEWVG	<u>IIIPGDS</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR <u>HGHG</u> SSSGRTYYIYGLD	YWGQGT
2H11	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>TYWIG</u> WVRQMPGKGLEWVG	<u>IIYPGDS</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR <u>DTGY</u> FDIYWGQGT	TVTVSS
18H9	QVQLVESGGGVVQPGRSRLKSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLEWV	<u>VIWYDGS</u> NKIYVDSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR <u>PGSD</u> YIYIYGMDVWGQGT	TVTVSS

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

9D6

GAGGTGCAGTTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCCATCCTGGTGA CTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACTGCCATATATTACTGTACGAGACAGGGT
AGAAGCTTCTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

2C3

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTATCCTGGTGA CTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCAGCGCCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACAACAA
GTGGCTGGTATGTTGGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

14C9

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTATTTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGGCTGGAGTGGGTGACAGT
TATATGGTATGATGGAAGTAATGAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGAGGA
CTTCGACTCCCACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

8B12

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGGCTGGAGTGGGTGGCAG
TTATATGGTATGATGGAAGTAATGAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
CAAGAACACGCTGTATCTACAAATGCACAGCCTGAGAGCCGAGGACACGGCTGTGTATTATTGTGCGAGAGAAGA
ATGGTTCGGGGAGGCGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 29B

16A4

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCAGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAG
TTATATGGTATGATGGAAGTAATGAATATTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTC
CAAGAACACGCTGTTTCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGATGA
TTGGTTCGGGGAGGCGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

16E1

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAACTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGACAGT
TATATGGAATGATGGAAGTAATGAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTTTCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGAAGAT
TGGCTCGGGGAGGCGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

13A1

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAG
TTATATGGTATGATGGAAGTAATAAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTC
CAAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGAAG
AGTGGGAGCTAGAGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

8F10

CAGGTGCAGTTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGTTATGGCATGTACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAAGTAATAAATACTATGTAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGGAGC
AGTGGCTGGTACGGGACGGGACTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCT
CCTCA

FIG. 29C

12C4

CAGGTGCAGTTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACGTTCACTAGTTATGGCATGTACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAG
TTATATGGTATGATGGAAGTAATAAATACCATGGAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTC
CAAGAATACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAAAGGAGC
AGTGGCTGGTACGGGACGGGACTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCT
CCTCA

9B12

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCAGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTTAGTAGTTATGGCATGTACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAAGTAATAAAAACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAATACGTTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATCACTGTGCGAAAGGAACA
GTGGCTGGTACGGGACGGGACTACTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCT
TCA

3H5

CAGGTGCAACTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTTTGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATTTGGTTTGATGGAAGTAATAAATACTATGTAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAATACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGCGGGACGAT
TTTTGGAGTGATTATCCTTTTACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

18A6

CAGGTGCAACTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCCTCT
GGATTCACCTTCAGGAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATCAGATGATGGAAGTAATAAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGACCTGAGGACACGGCTGTGTATTACTGTGCGAGAGATCTC
TATAGCAGTGCCTGGCCCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

FIG. 29D

10A6

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTAGCTATGACATACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGAATGATGGAAGTATTAAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGACGG
GGAGCAGTGGCGGGGCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

10H7

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTAGCTATGACATACTGGGTCCGTGAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAAGTATTAAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGATCAG
GAGCAGTGGCTGGCCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

15A10

CAGGTGCAGTTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTACCTATGGCATGCACTGGGTCCGCCAGGCTCCAGACATGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAAGTAATAAATACTATGCAGACTCTGTGAAGGGCCGATTCACCATCTCCAGAGACATTTCC
AAGAACACGCTGTATCTGGAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGACAA
CTGGGGATCCGATGCTTTTGATATCTGGGGCCAAGGGACAATGGTCACCGTCTCTTCA

12D2

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTACCTATGCCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAATTAATAAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGGGAG
TACTATGATAGTAGTGTTATTACTACGGGGAGGACTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCC
TCA

FIG. 29E

9B10

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTATGCCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATCTGGTATGATGGAATTAATAAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGGGAG
TACTATGATAGTAGTGGTTACTTTCGGGGAGGACTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCC
TCA

17D3

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTCAAGCCTGGAGGGTCCCTGAGACTCTCCTGTGCAGCCTCT
GGATTCACCTTCAGTGACTACTACATGAGCTGGATCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTTTCATAC
ATTAGTAGTAGTGGTAGTATCATTTTTTACGCAGACTCTGTGAAGGGCCGATTCACCATGTCCAGGGACAACGCCA
AGAACTCACTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCCGTGTATTATTGTGTGAGAAGGATTA
GTATAACCCCTTTTACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

15G11

CAGGTACACCTTGAAGGAGTCTGGTCCTGTGCTGGTGAAACCCACAGAGACCCTCACGCTGACCTGCACCGTCTCTG
GGTTCTCACTCAGCAATGCTAGAATGGGTGTGAGCTGGATCCGTACGCCCCAGGGAAGGCCCTGGAGTGGCTTG
CACACATTTTTTCGAATGACGAAAAATCCTACAGCACATCTCTGAAGAGCAGGCTCACCATCTCCAAGGACACCTCC
AAAAGCCAGGTGGTCCTTACCATGACCAACATGGACCCTGTGGACACAGCCACATATTACTGTGTACGGATACCGA
GATGGCTACAACCCCCCTACTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

14D7

CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTCACAGACCCTGTCCCTCACCTGCACTGTCTCT
GGTGGCTCCATCAGCAGTGGTGGTTACTACTGGAAGCTGGATCCGCCAGCACCCAGGGAAGGGCCTGGAGTGGAT
TGGGTACATCTATTACAGTGGGAACACCCACTACAACCCGTCCCTCAAGAGTCGAGTTACCATATCAGTAGACACG
TCTAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGATTGCCGCGGACACGGCCGTGTATTACTGTGCGAGAGACT
GGGGACGTGATGCTTTTGATATCTGGGGCCAAGGGACAATGGTCACCGTCTCTTCA

FIG. 29F

18F3

CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTCACAGACCCTGTCCCTCACCTGCACTGTCTCG
GGTGGCTCCATCAGCAGTGGTGGTTACTACTGGAGCTGGATCCGCCAGCACCCAGGGAAGGGCCTGGAGTGGAT
TGGGTACATCTATTATAGTGGGAGCACCGACTACAACCCGTCCCTCAAGAGTCGAGGTATCATATCAGGAGACAC
GTCTAAGAACCAGTTCTCCCTGAAGCTGAACTCTGTGACTGCCGCGGACACGGCCGTGTATTACTGTGCGAGAGA
GGGGAGGTTGGGGAGTTAGGCTCCTACTACTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

17D9

CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTCGGAGACCCTGTCCCTCACCTGCACTGTCTCT
GGTGGCTCCGTCAGCAGTGGTGGTTACTACTGGAGCTGGATCCGGCAGCCCCCAGGGAAGGGACTGGAGTGGAT
TGGGAATACCTATTACAGTGGGAGCACCAACTACAAACCCTCCCTCAAGAGTCGAGTCACCATATCAGTAGACACG
TCCAAGAACCAGTTCTCCCTGAAGCTGAGTTCTGTGACCGCTGCGGACACGGCCGTGTATTACTGTGGGAGAGAC
CGGGGTAGAGCAGTGGGTCCCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

21F8

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTCACCAATTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAACAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAAGTA
GGCAGTGGCTGGTACTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

22B9

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTCACCAATTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAACAGTGGTAACACAGGCTATGTACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAAGTA
GGCAGTGGCTGGTACTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

FIG. 29G

21D10

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACAGGTTACACAGTTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGAT
GGATGAACCCAAACAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACC
TCCATAAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAAGT
AGGCAGTGGCTGGTACTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

14A6

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTCACCACTTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAACAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAGCACAGCCTACATGGAGCTGAGCAGCCTAAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAGGCC
GGCAGTGGCTGGGCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

11D6

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTCACCAATTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAATAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAACACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAGGCC
GGCAGTGGCTGGGCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

10A9

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGCTTTACCAGCCAGTGGATCGGCTGGGTGCGCCAGATGCCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTTTCTGGTGA CTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTACCATCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGCGACAGGGT
AGAAGTTACCACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 29H

16E3

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACGGCTTTACCAACTACTGGATCGGCTGGGTGCGCCAGATGCCCGGAAAAGGCCTGGAGTGGATGGGGA
CCATCTATCCTGGTGA CTCTGATACCAGATACAGTCCGTCCTTCCAAGGCCAGGTCACCTTCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACAGGGT
AGAAGTTACTACTACTTCGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

14G7

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGCTTTACCGACTACTGGATCGGCTGGGTGCGCCAGATGCCCGGAAAAGGCCTGGAATGGATGGGGA
TCATCTATCCTTATGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCCTCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCGGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACATCGG
GGGGGGAGGTCTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

5H3

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGCTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGAAAAGGCCTAGAATGGATGGGGA
TCATCTATCCTGGTGA CTCTGATACCACATACAGCCCGTCCTTCCAAGGCCAAGTCACCATCTCAGCCGACAAGTCC
ATCAACACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGAGAGGGT
TTCGGGGAGTCTATTCACTACGGTTTGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

2B12

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAATTTTACCAACTACTGGATCGGCTGGGTGCGCCAGATGTCCGGGAAAAGGCCTGGAGTGGATGGGAA
TCATCTATCCTGGTGA CTCTGAAACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTC
CATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACATGG
AGGGGGATGGAGTGGTTGGGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 29I

26H7

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAACTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTATCCTGGTGACTCTGATACCAAATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCAGTACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACATGGT
GGATATAGTGGCCGTTCTACTACTACGGTATGGACGTCTGGGGCCAGGGGACCGCGGTACCGTCTCCTCA

26C12

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTTTCTGGTGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCACCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATCTATTACTGTGCGGACATGGG
CATGGCAGCTCGTCCGGGCGGACCTACTACTACGGTTTGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCC
TCA

2H11

GAGGTGCAGCTGGTGCAATCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAACCTTACCACCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTATCCTGGTGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATTTAGCCGACAAGTCC
ATCAACACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACAGCCATTTATTACTGTGCGAGAGACACA
GGATACTTTGACTACTGGGGCCAGGGCACCTGGTCACCGTCTCCTCA

18H9

CAGGTGCAGTTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGCCTGGAGTGGGTGGCAGT
TATCTGGTATGATGGAAGTAATAAATTCTATGTAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGACCCGG
GTCCGATTACTACTTCTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 30

