

phospho-STAT5
(MFI)

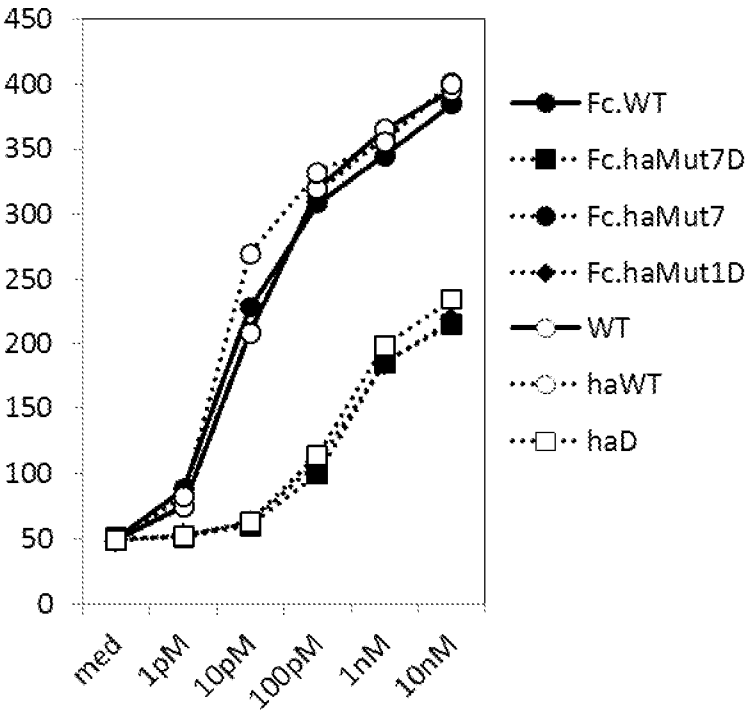


FIG. 1

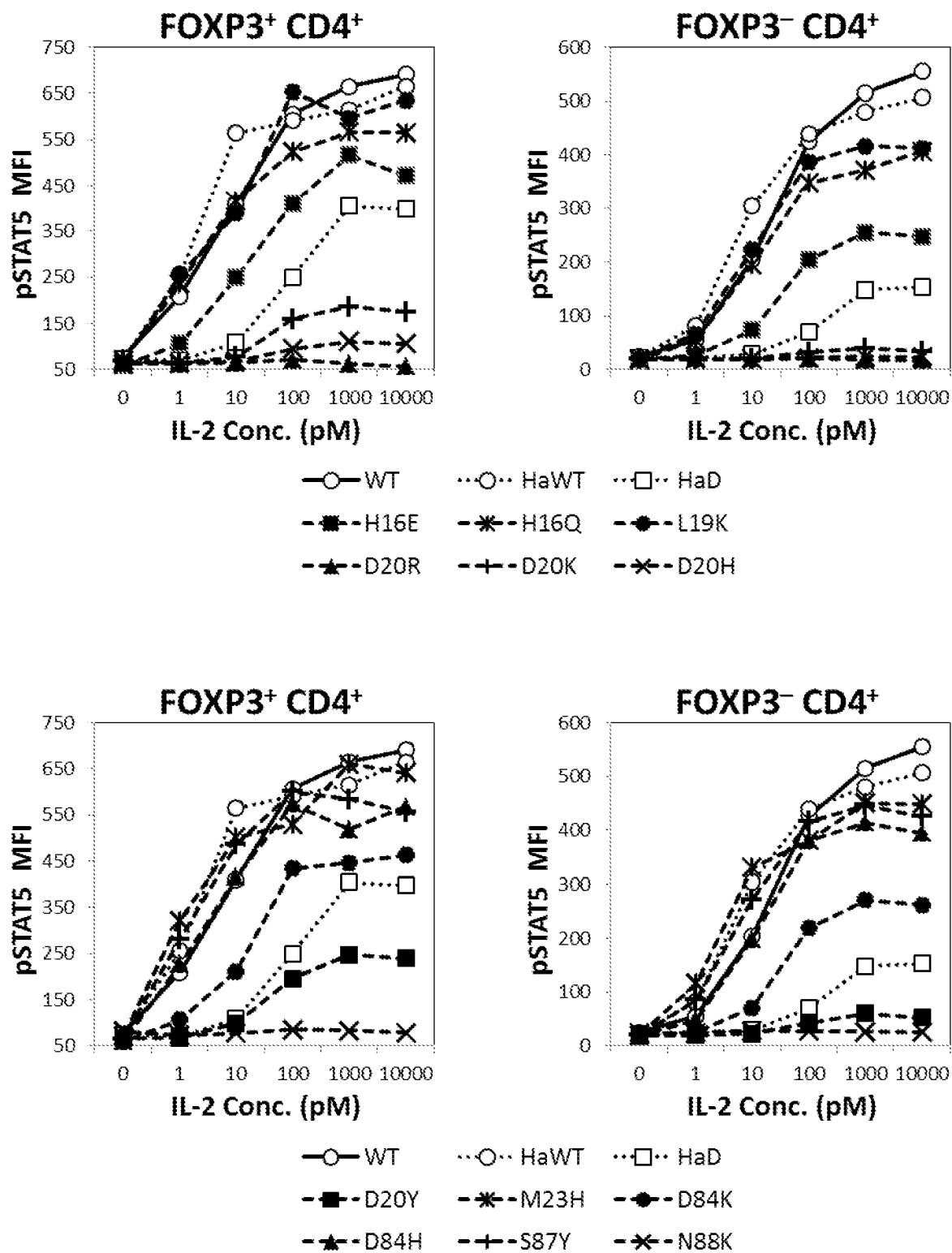
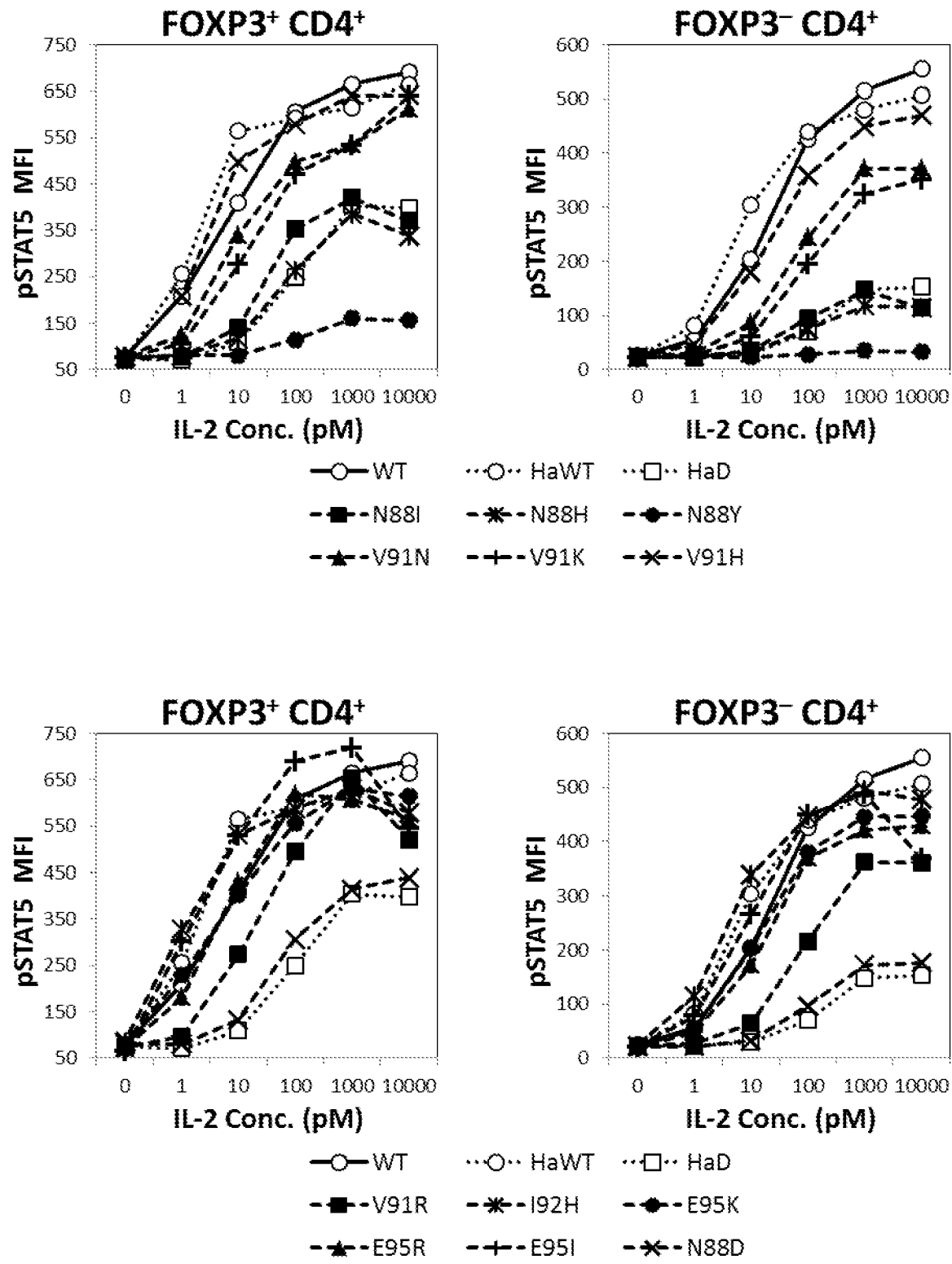


FIG. 2B



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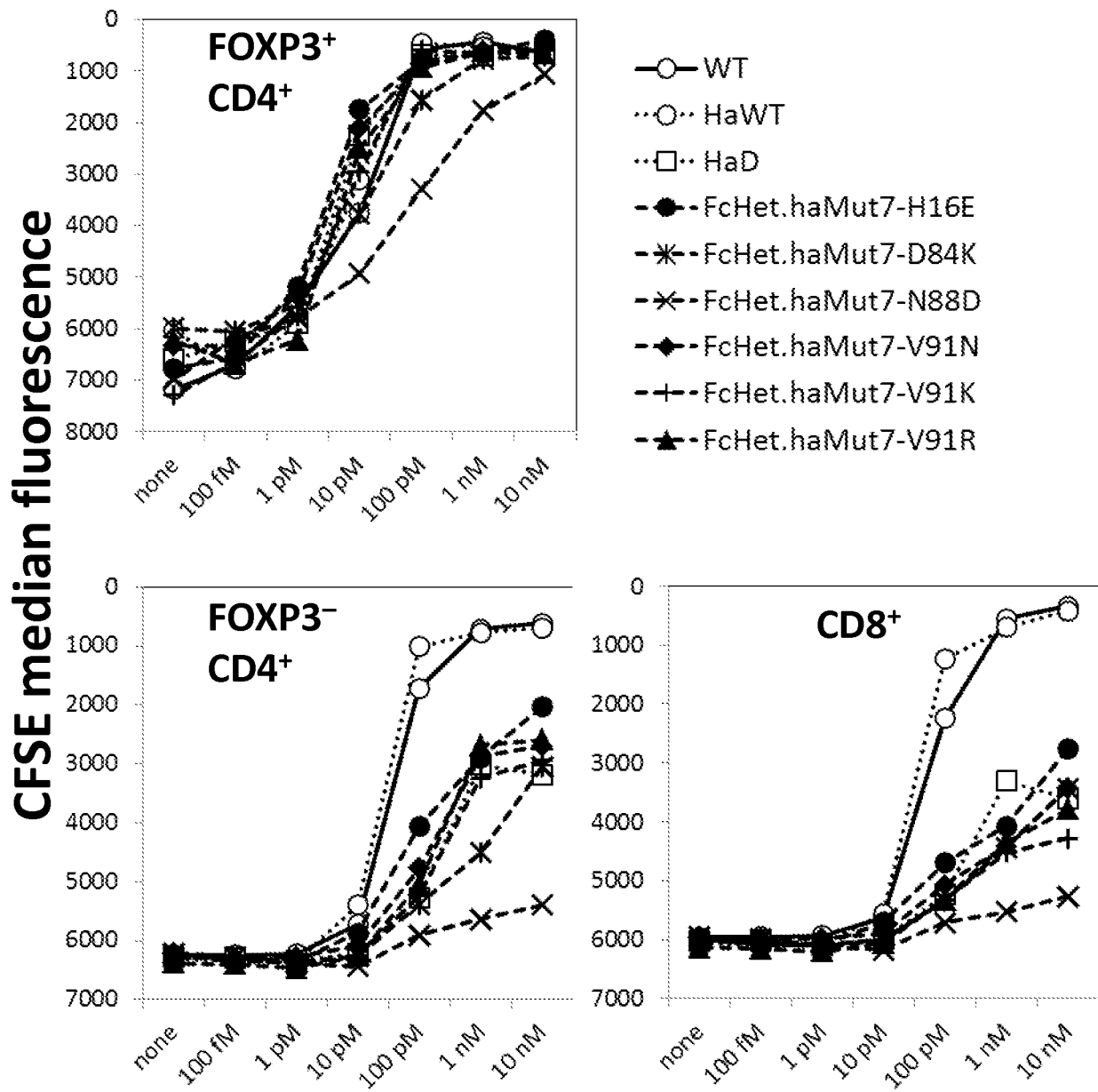


FIG. 3

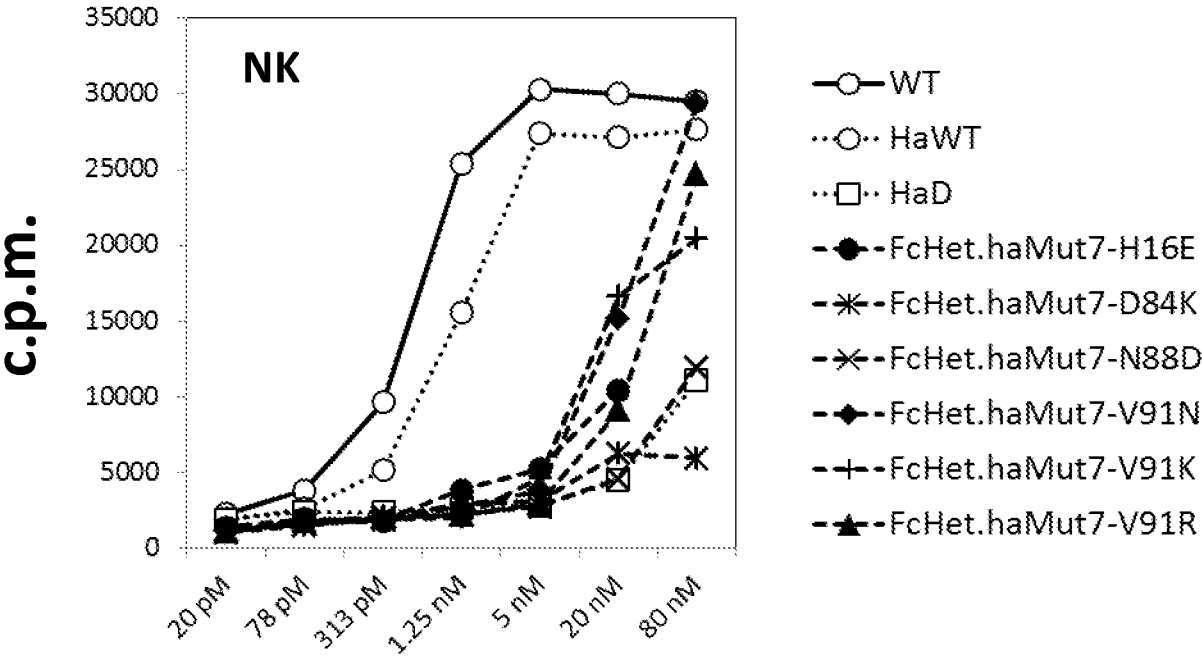


FIG. 4

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CFSE median fluorescence

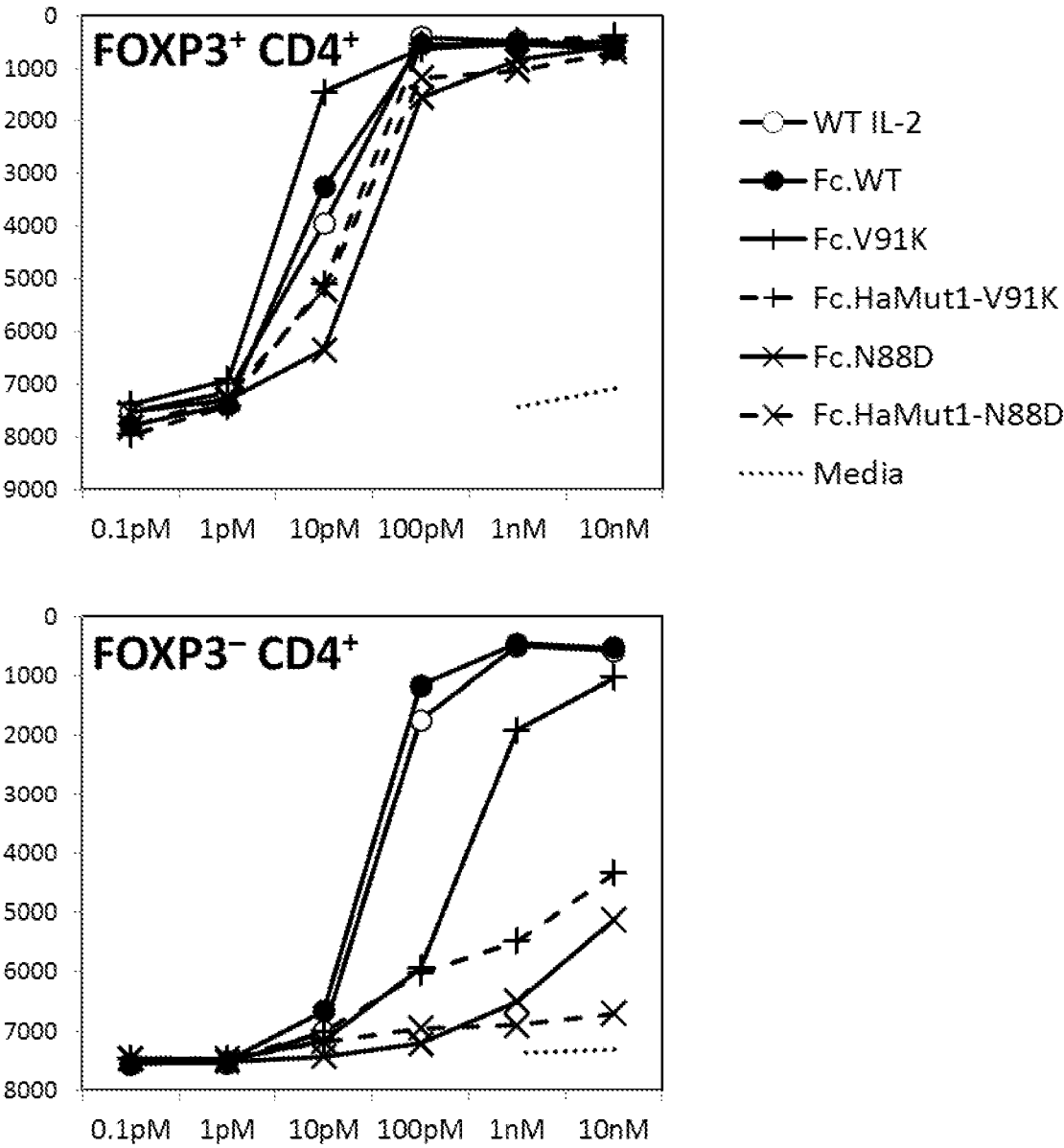


FIG. 5

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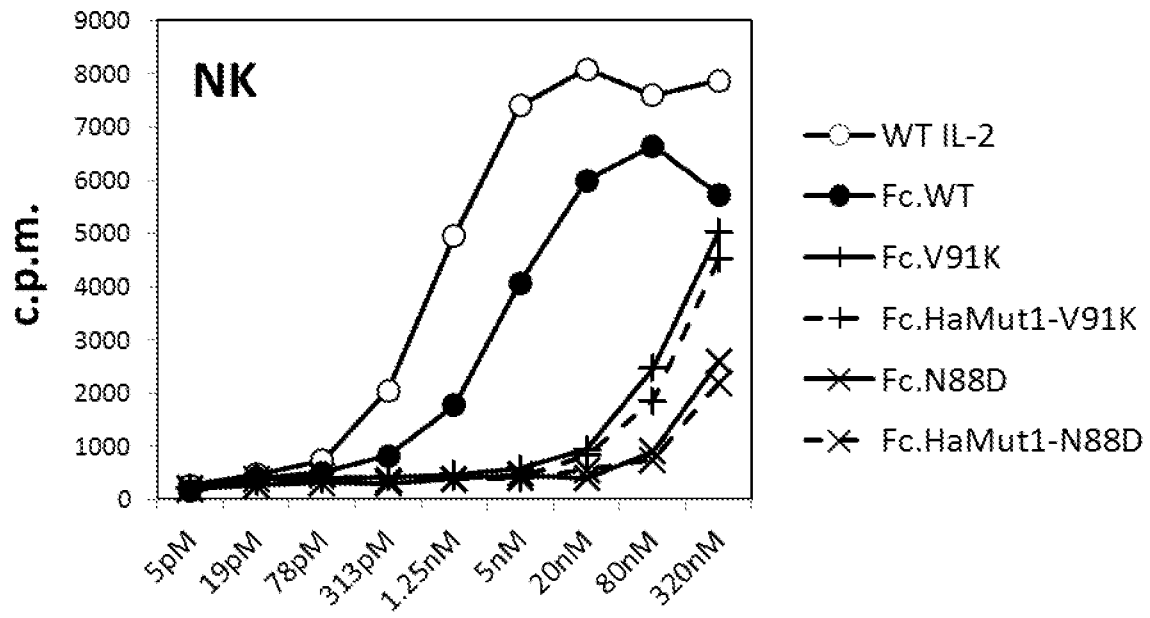


FIG. 6

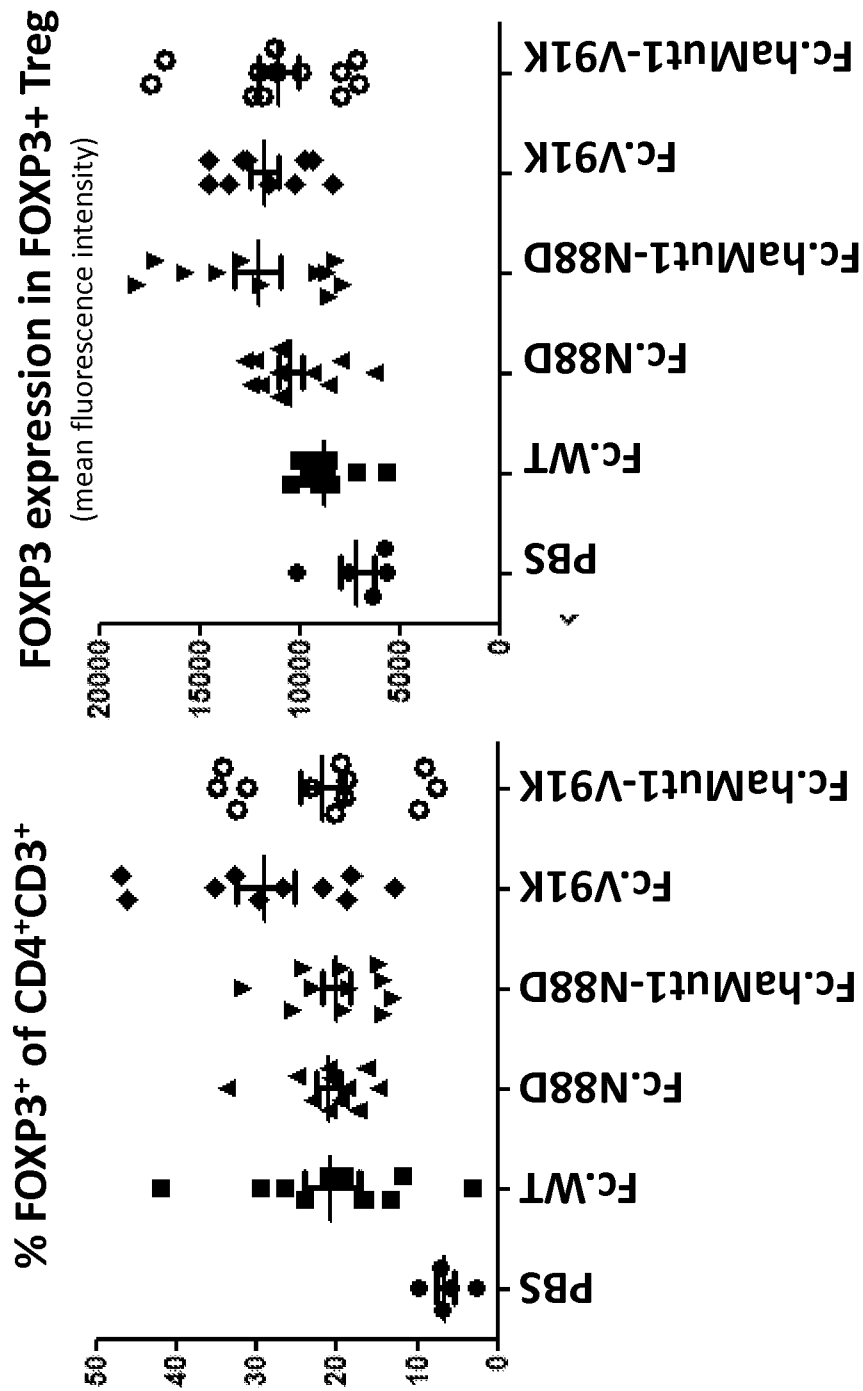


FIG. 7A

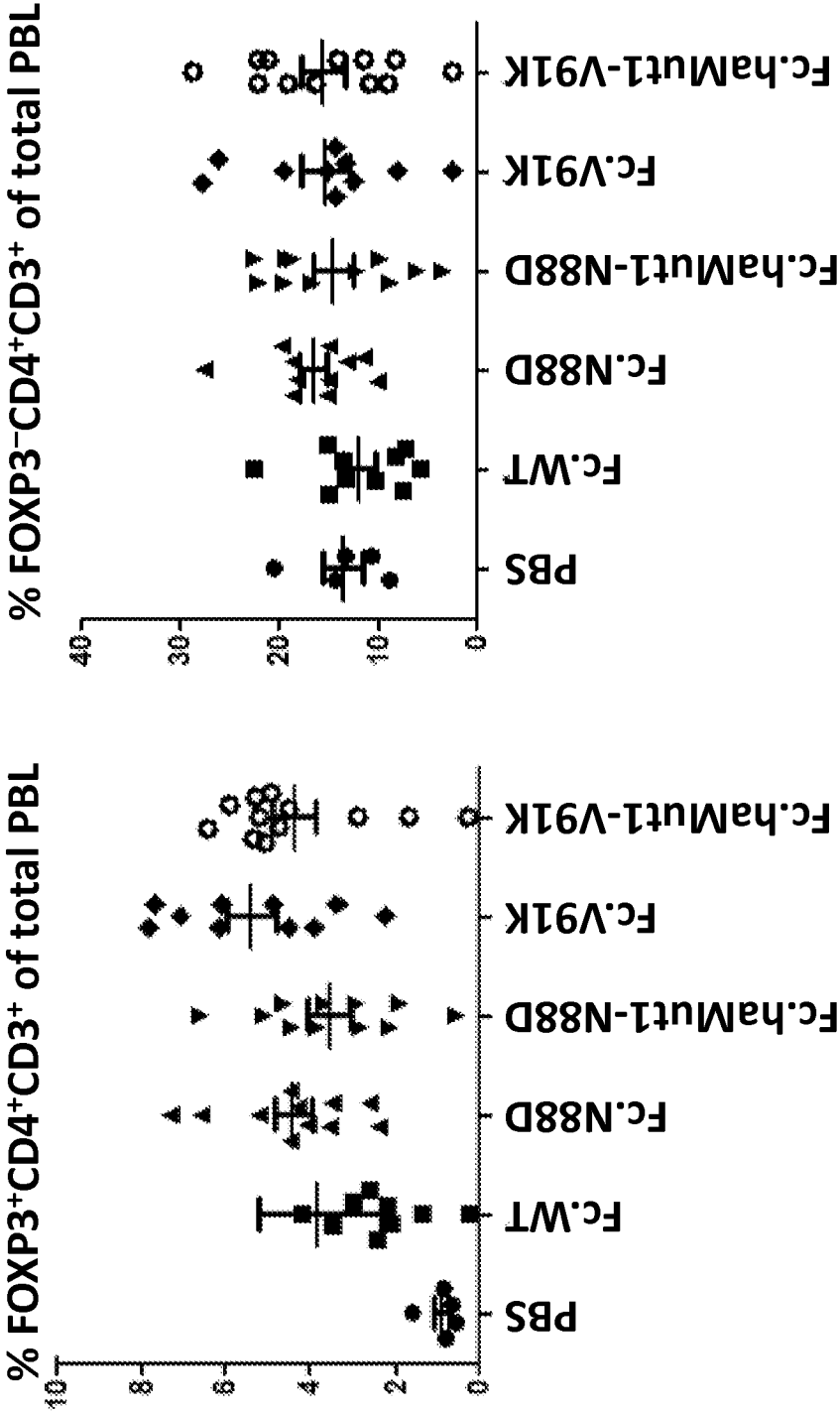


FIG. 7B

FIG. 8

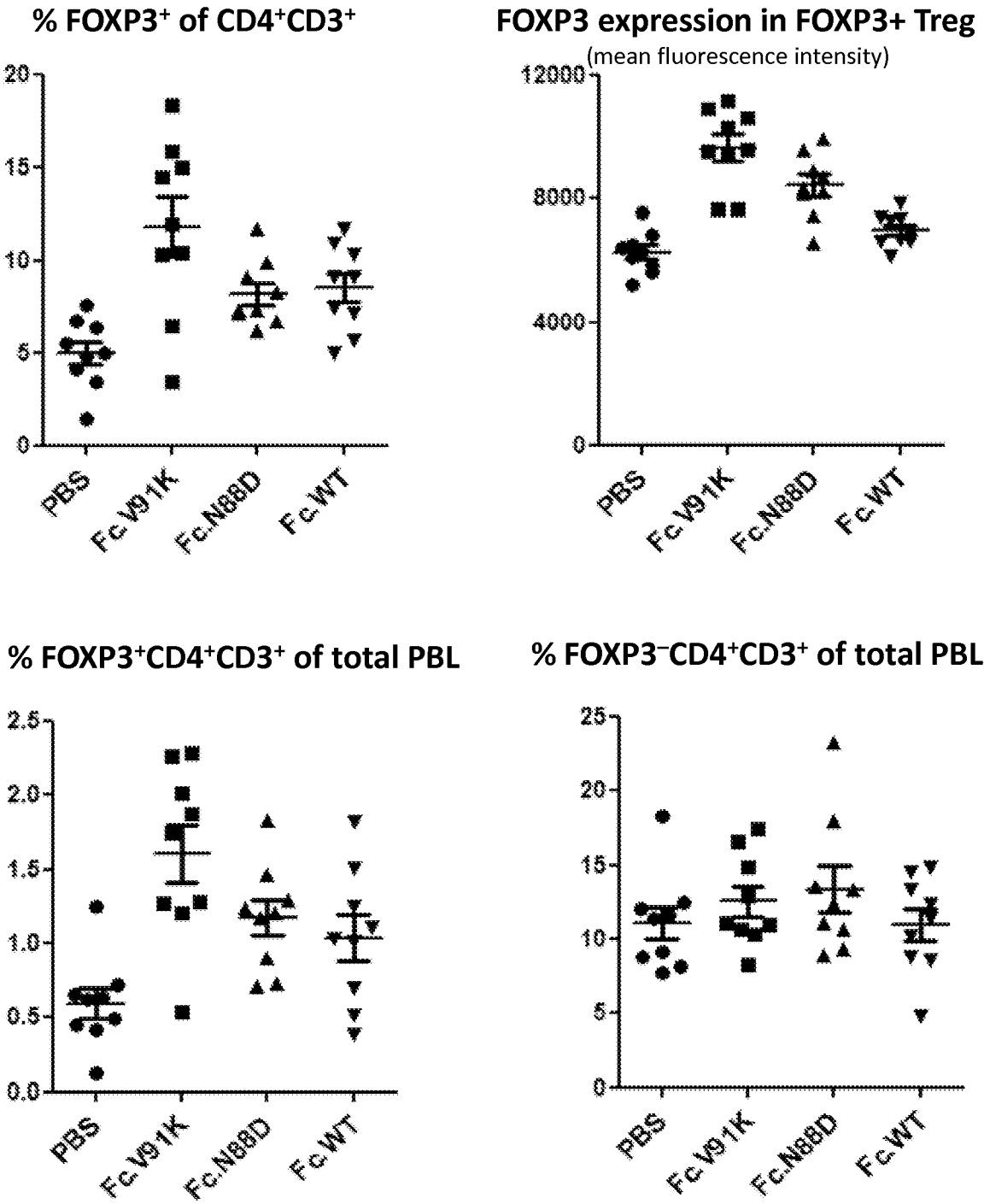


FIG. 9A

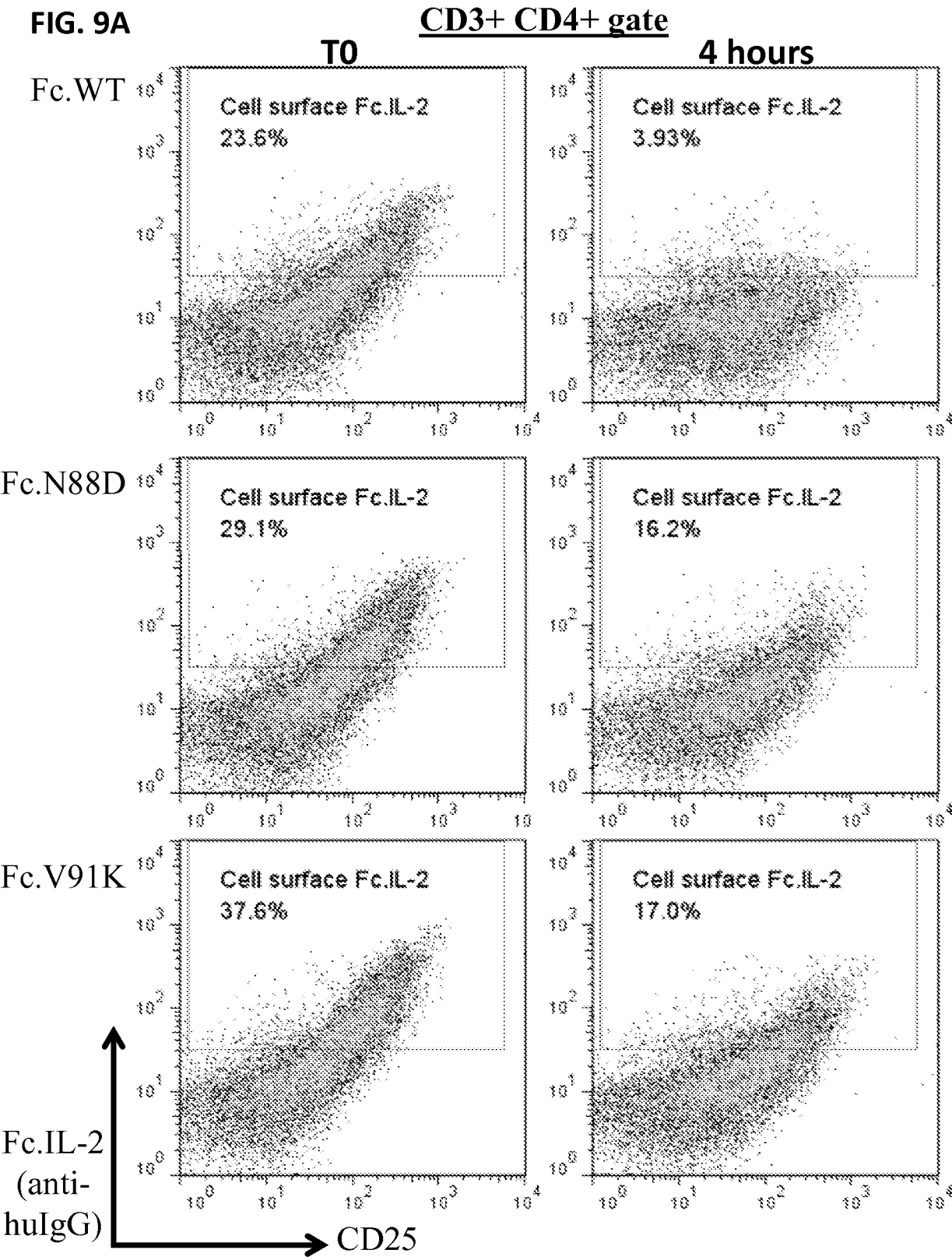


FIG. 9B

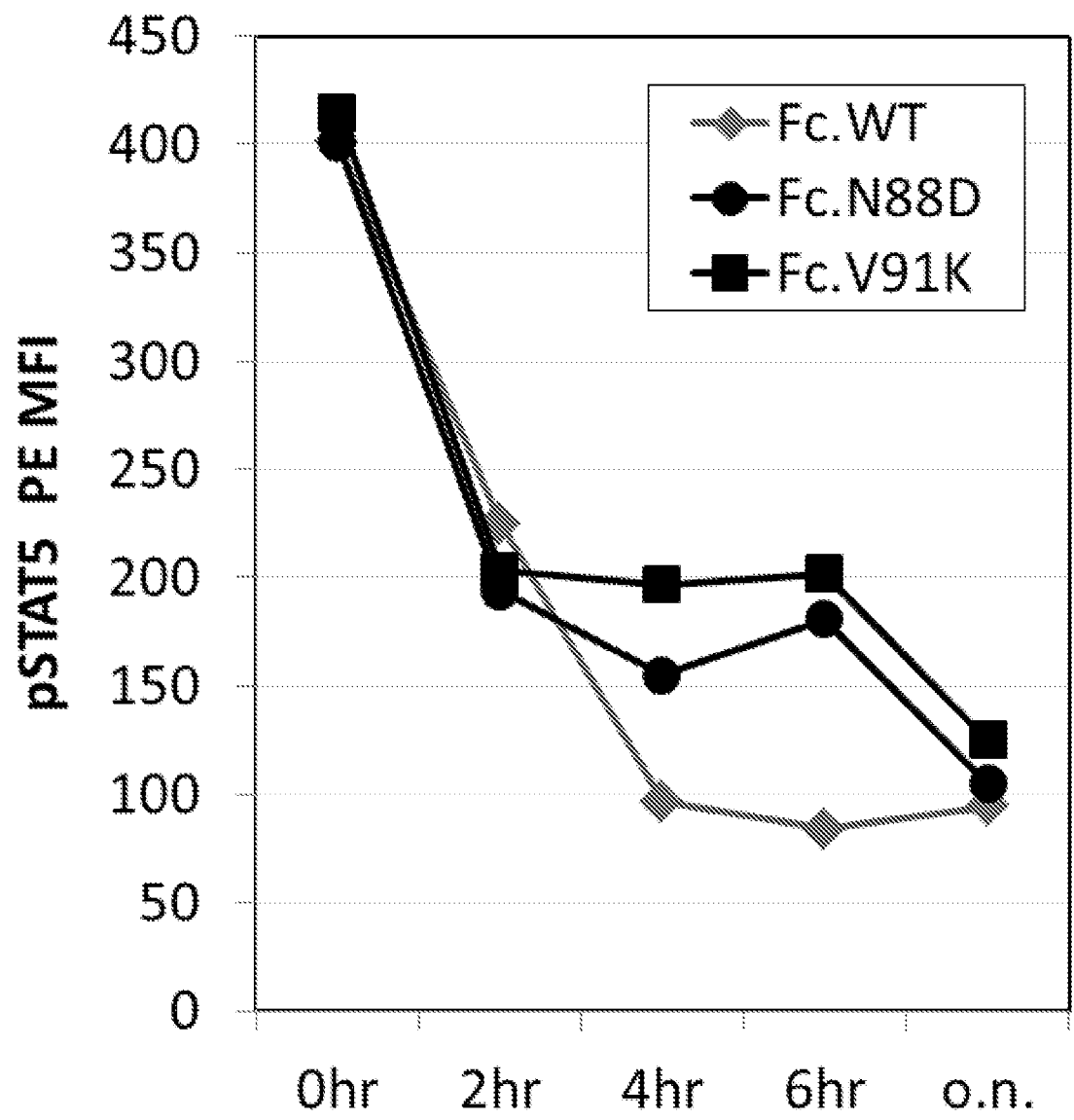


FIG. 10A

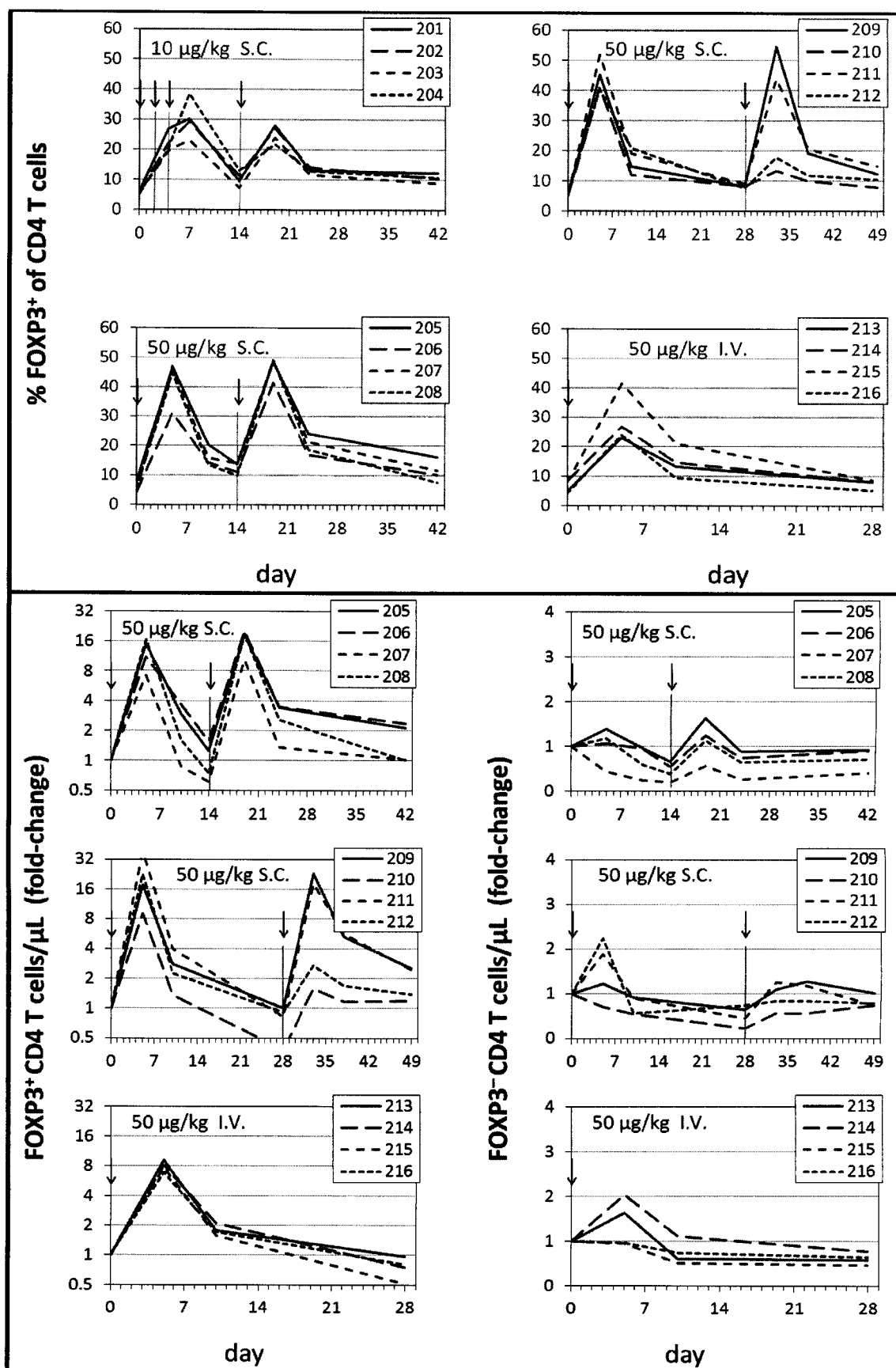
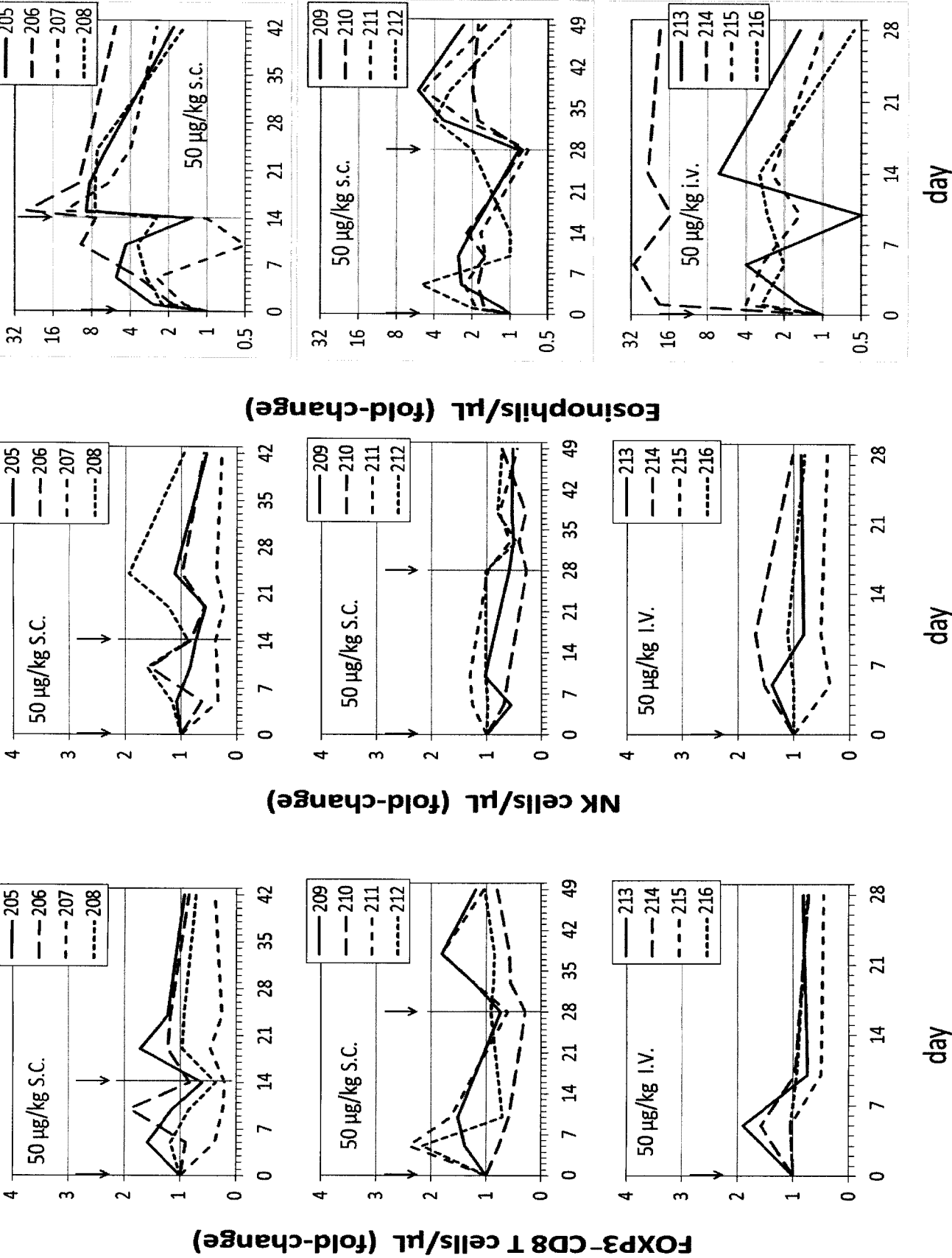
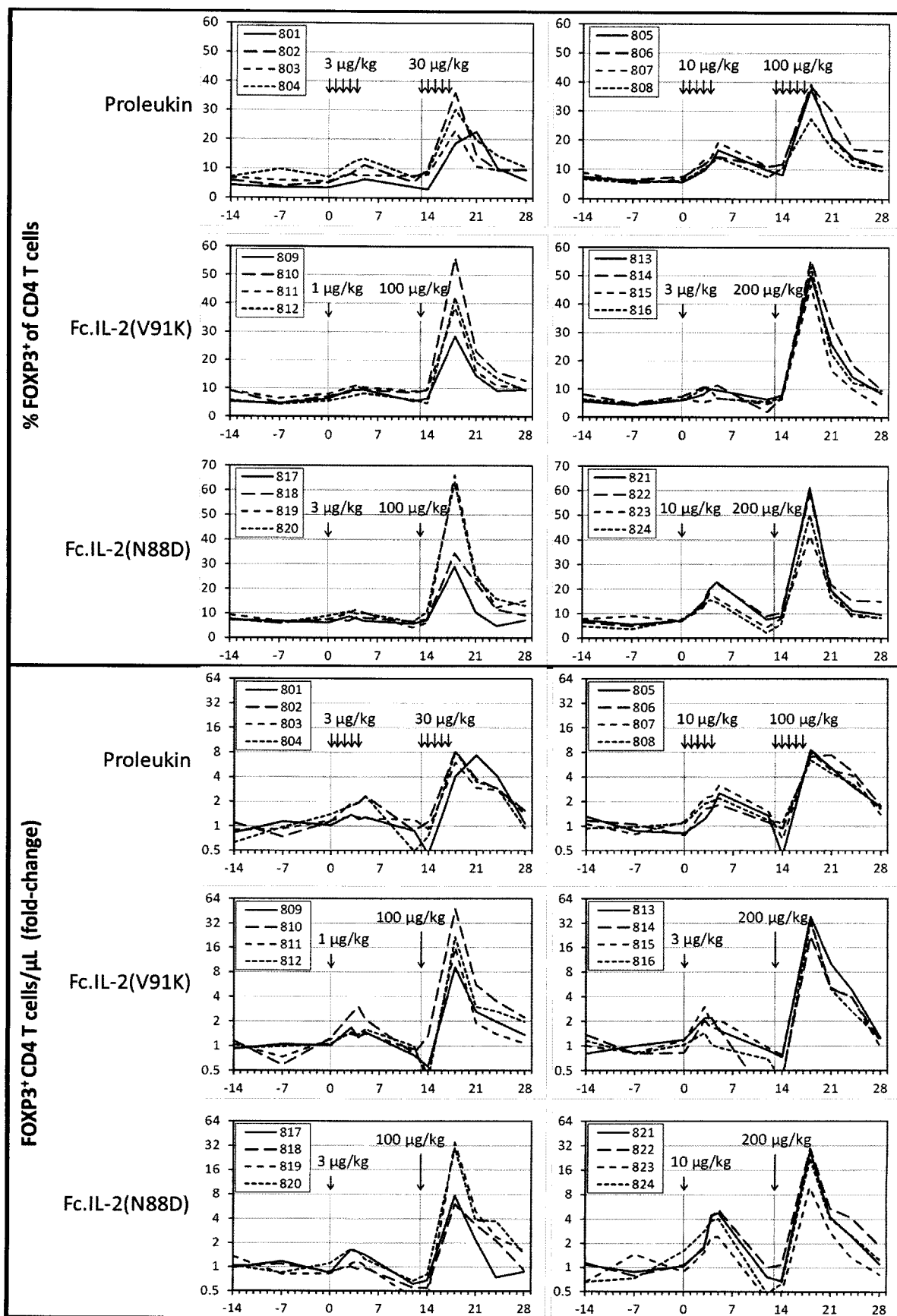


FIG. 10B



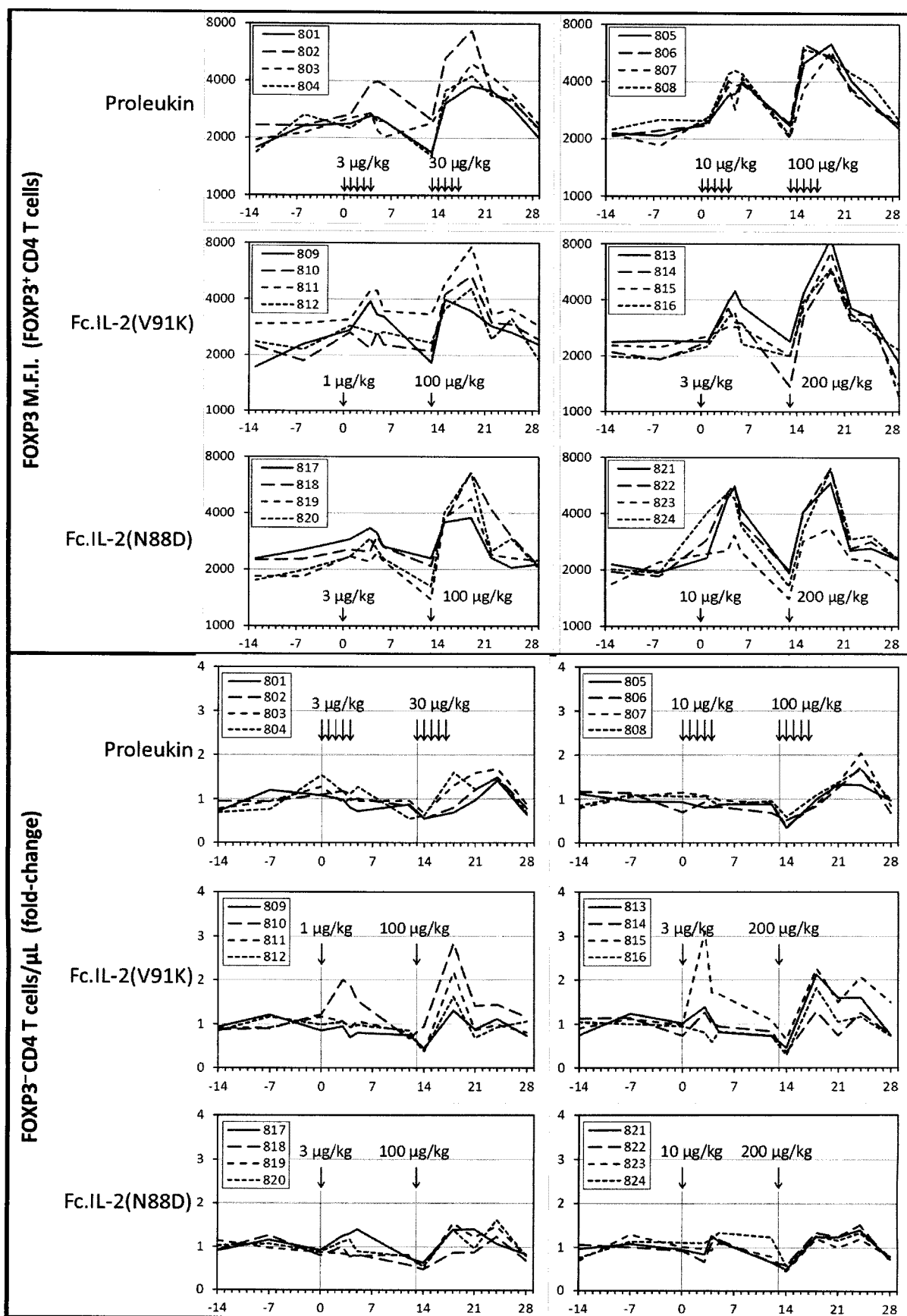
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FIG. 11A



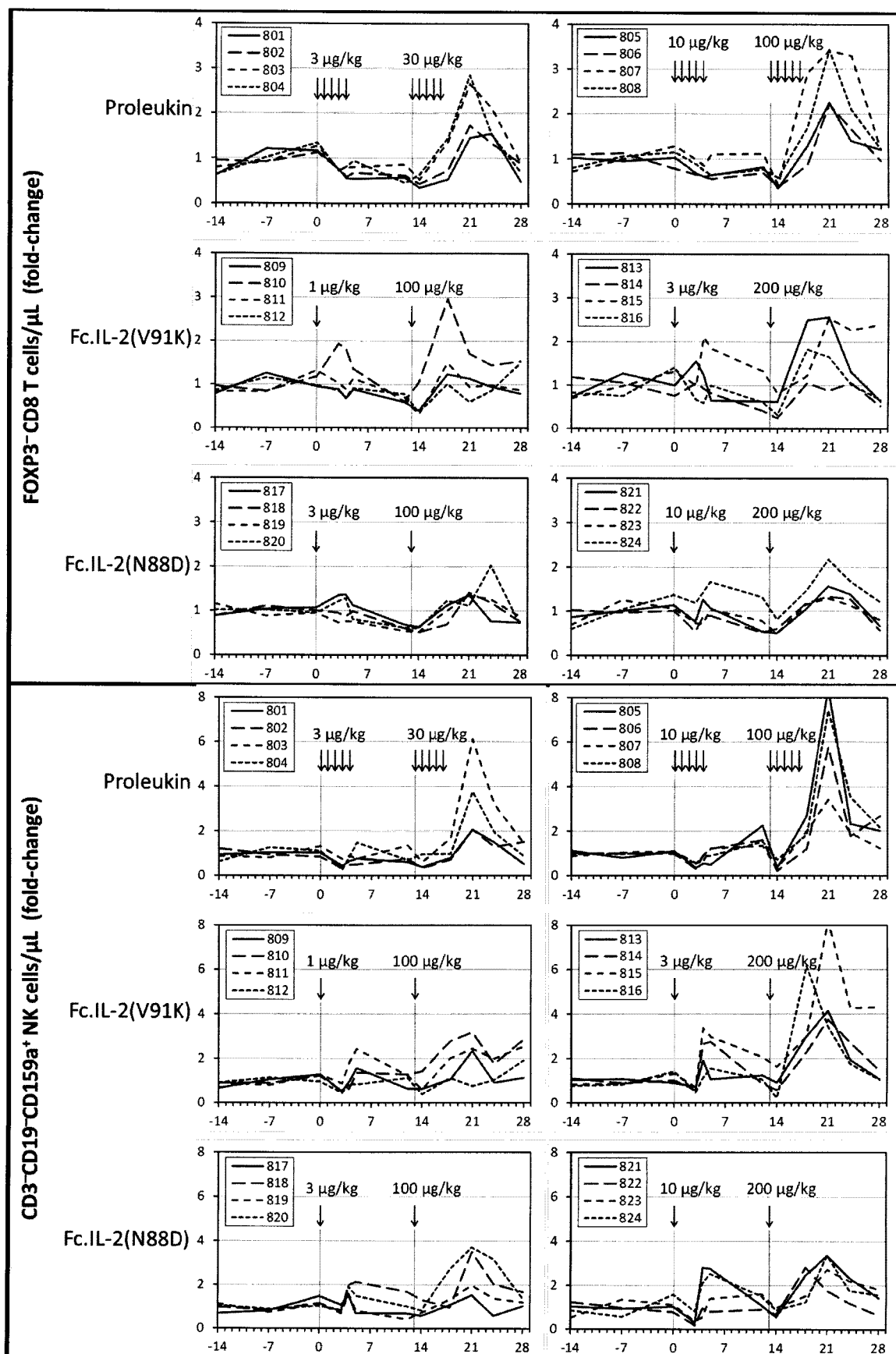
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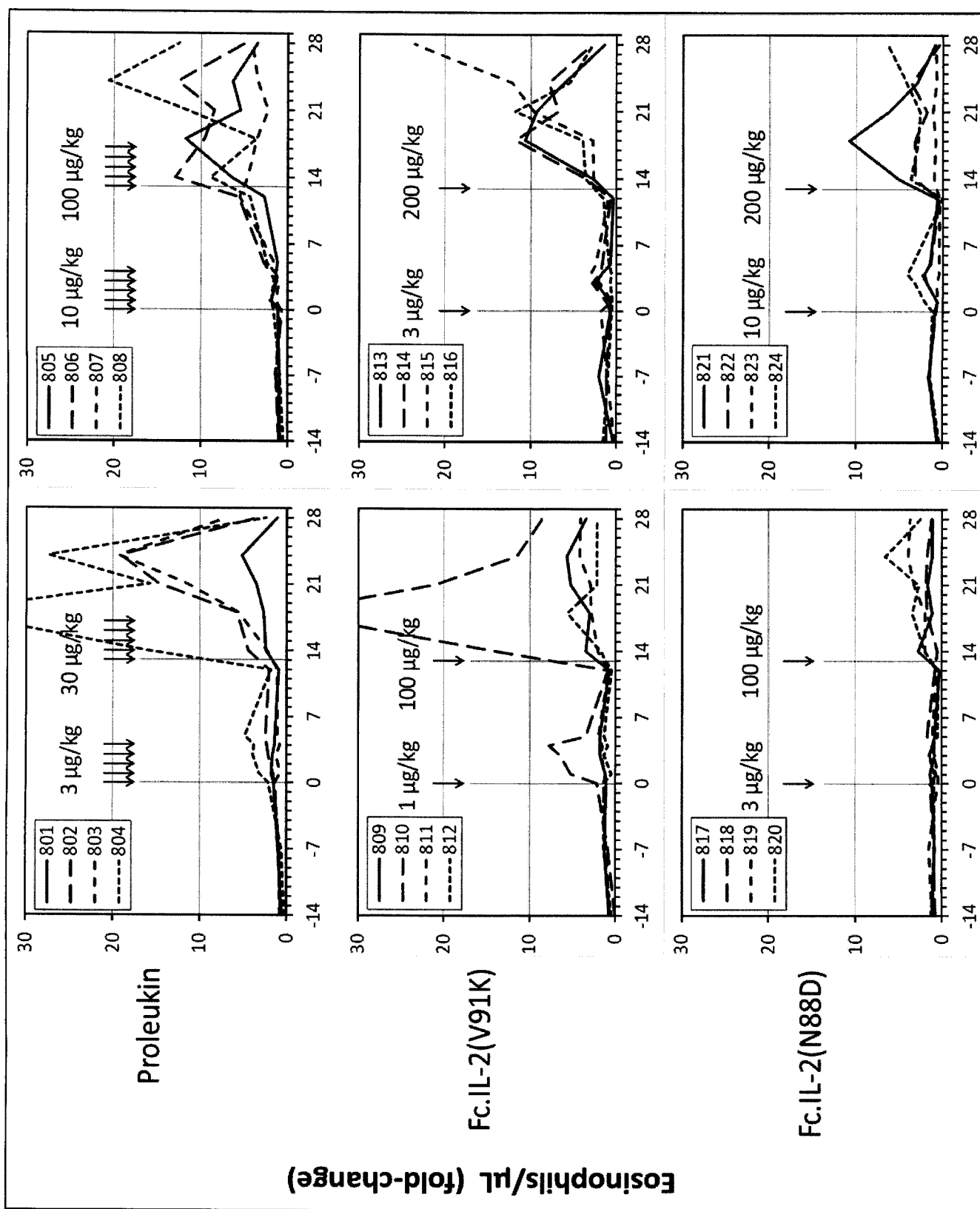
IG. 11B

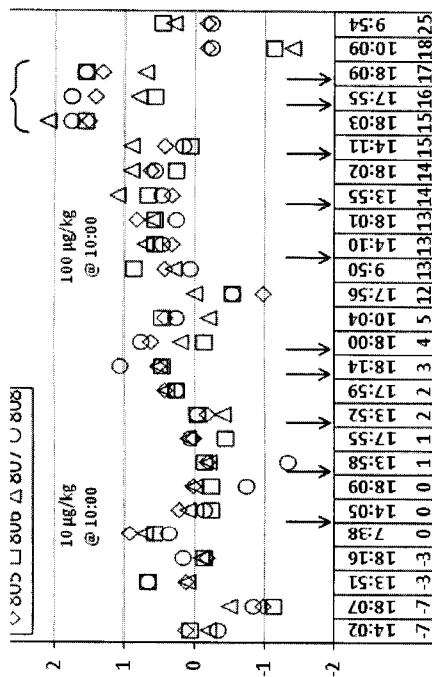
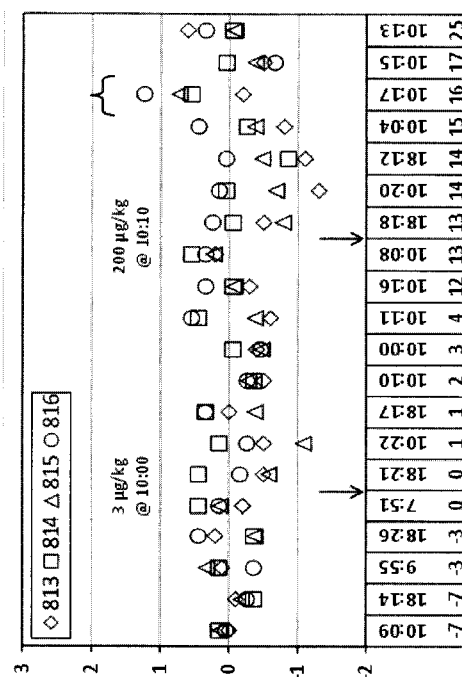
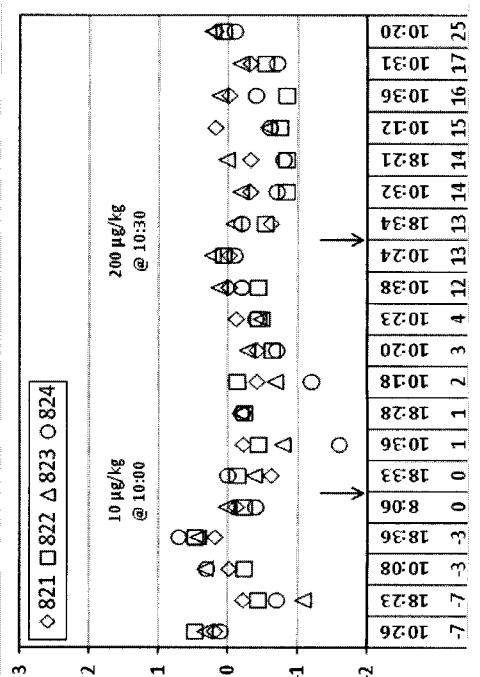
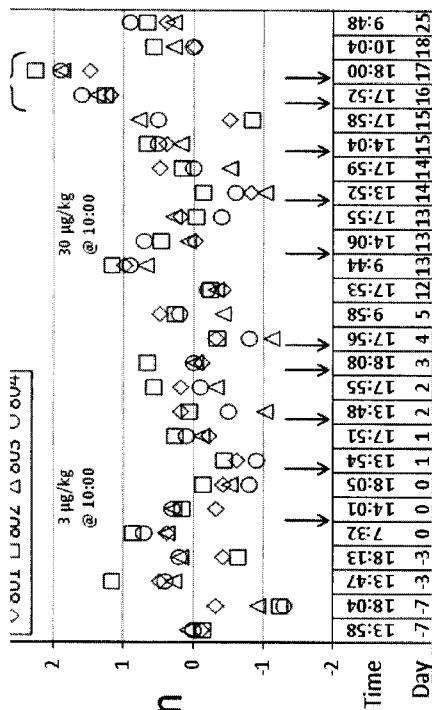
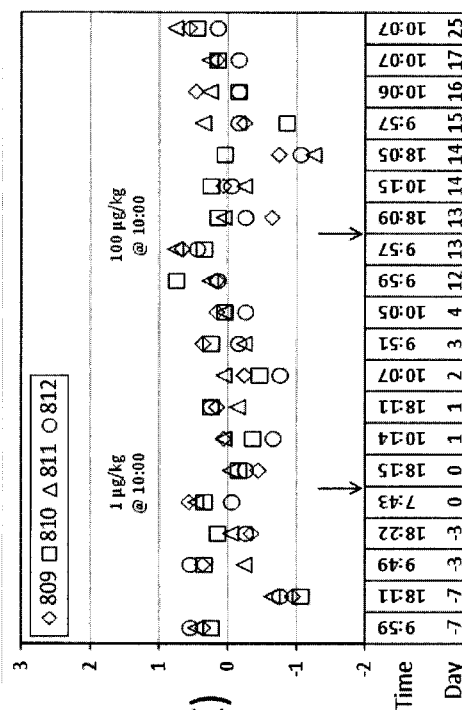
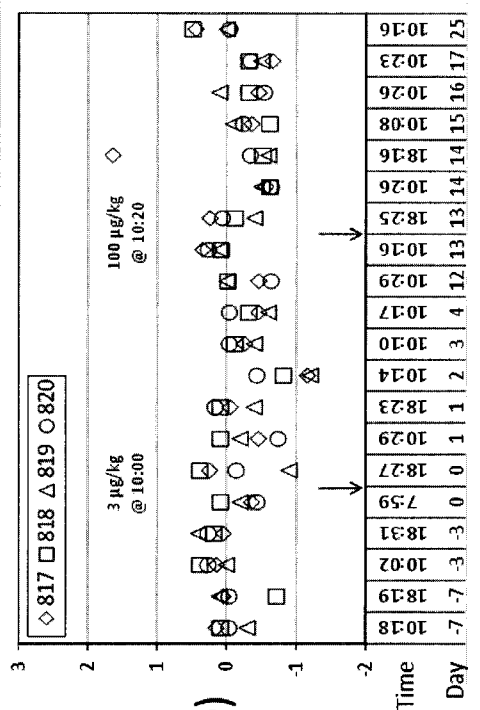


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IG. 11C







Proleukin

Fc.IL-2(V91K)

FC.IL-2(N88D)

Change in Body Temperature (°C)

CRP ($\mu\text{g/mL}$)

Proleukin

Fc.IL-2(V91K)

Fc.IL-2(N88D)

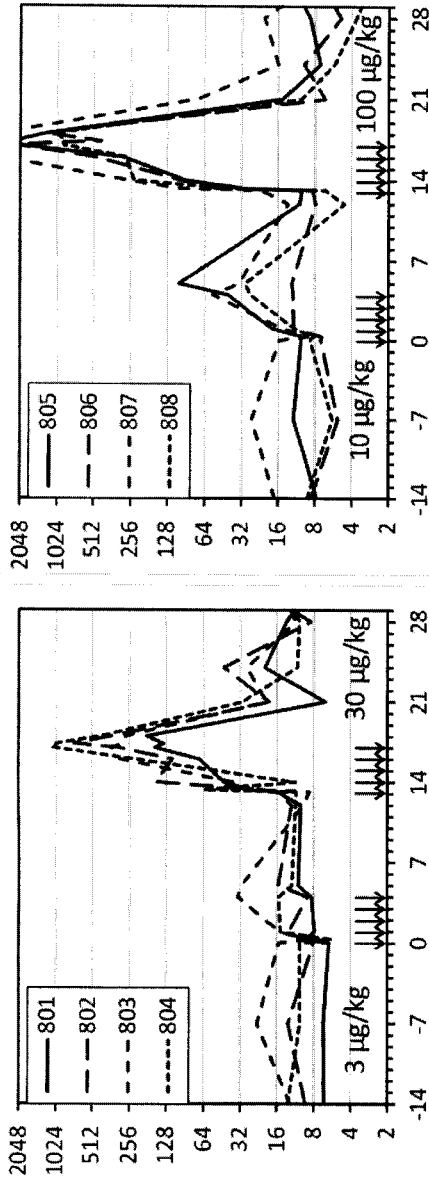
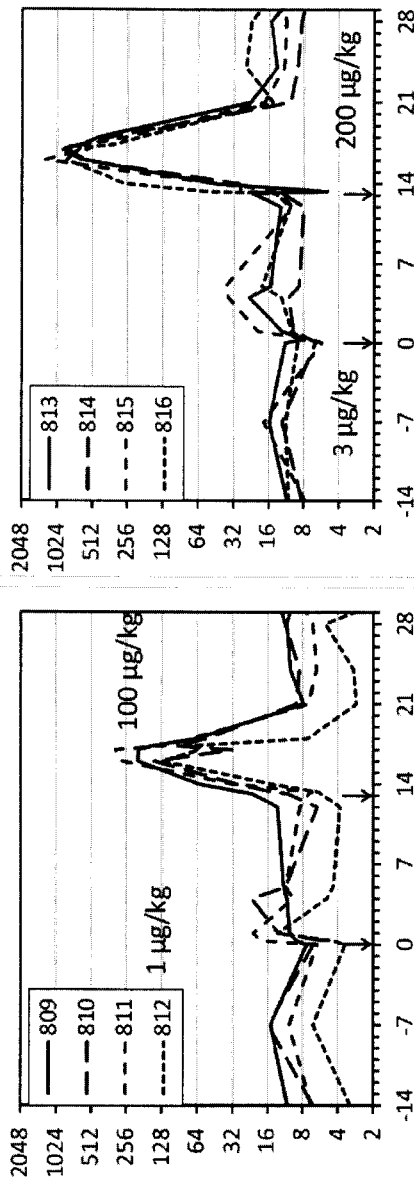
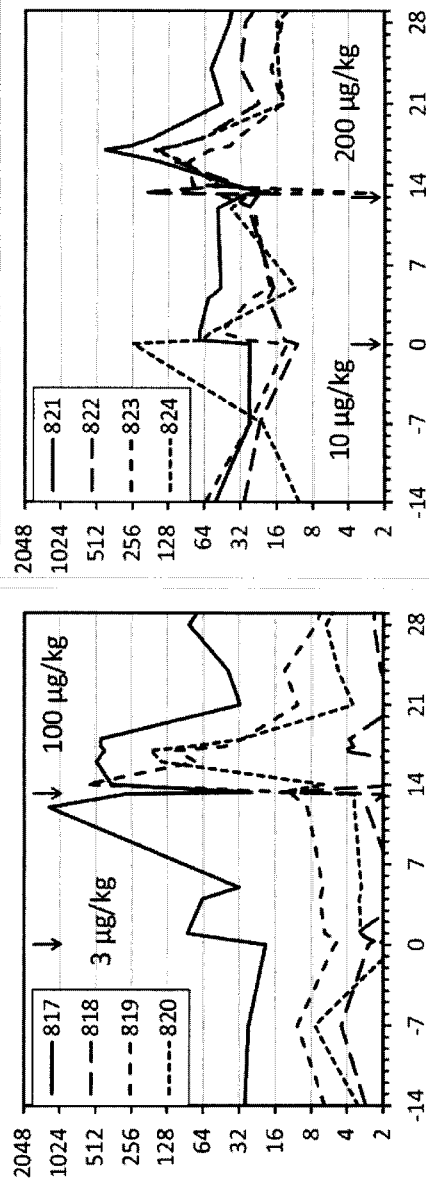


FIG. 12A

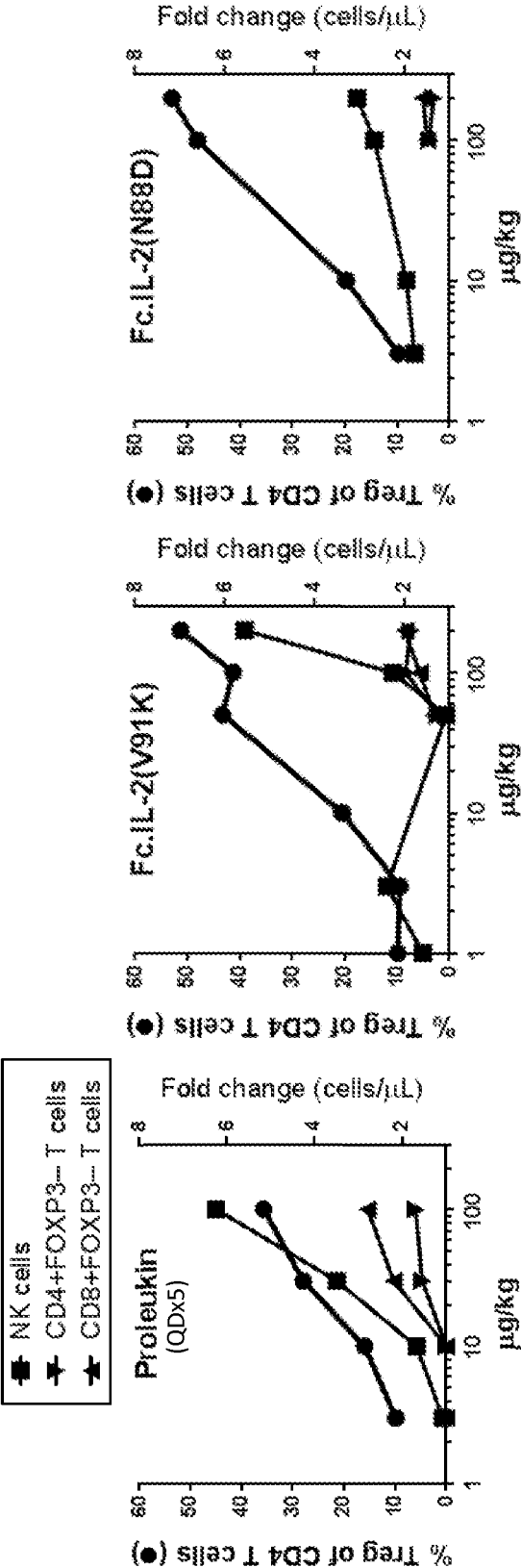


FIG. 12B

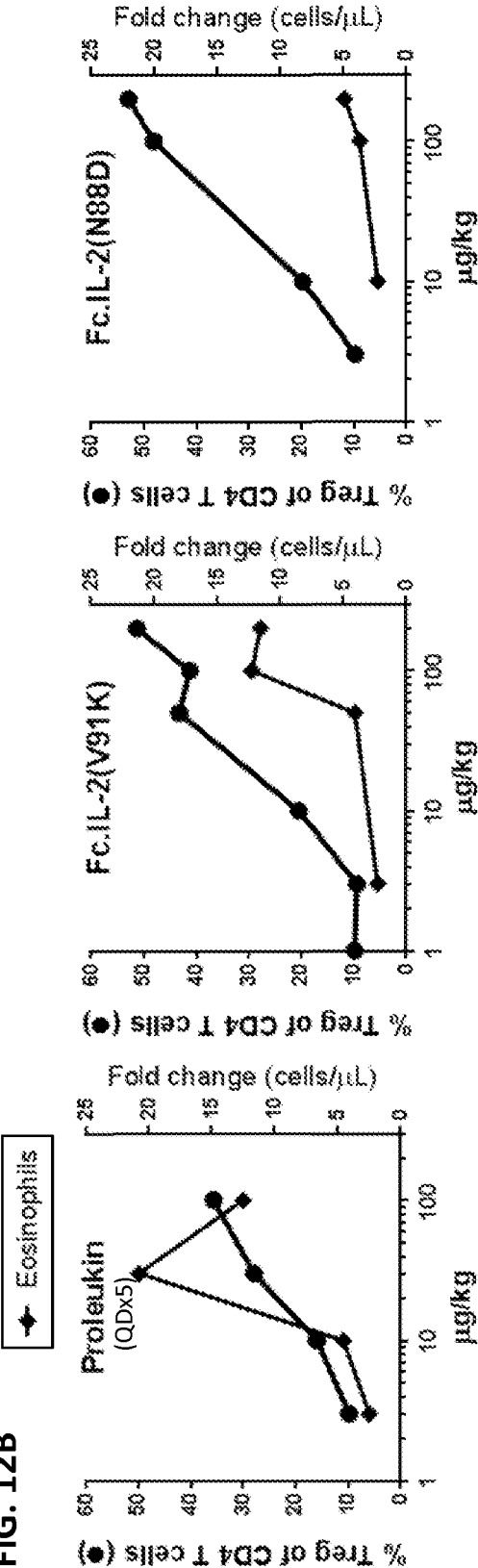


FIG. 12C

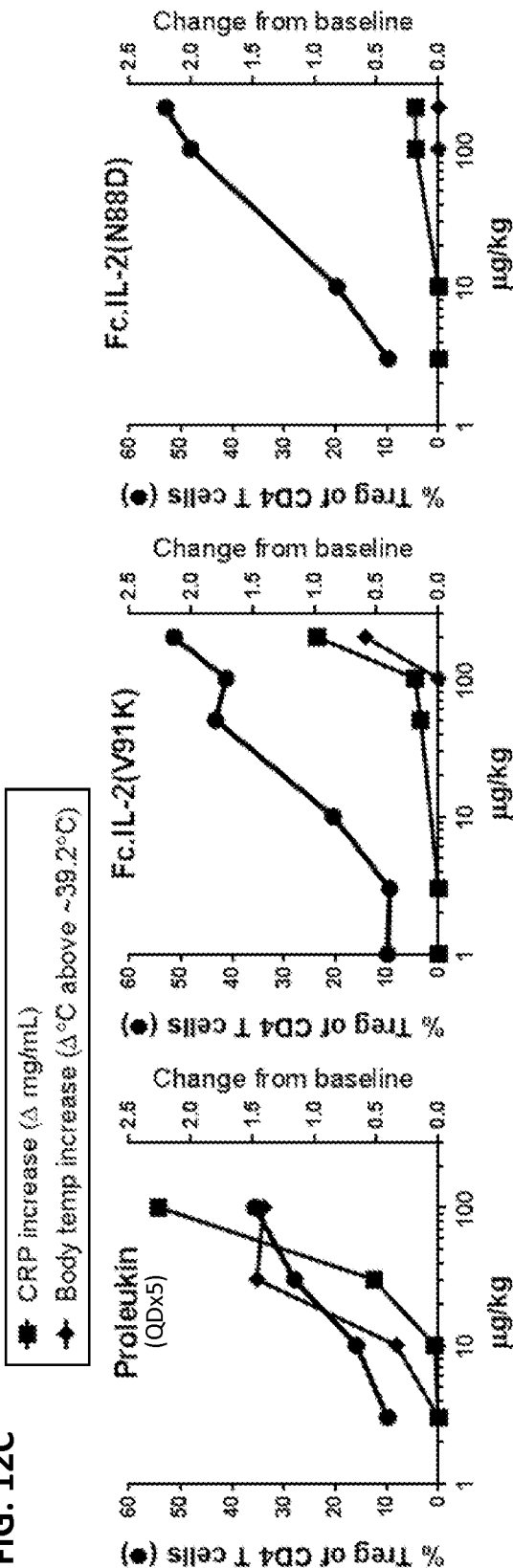


FIG. 12D

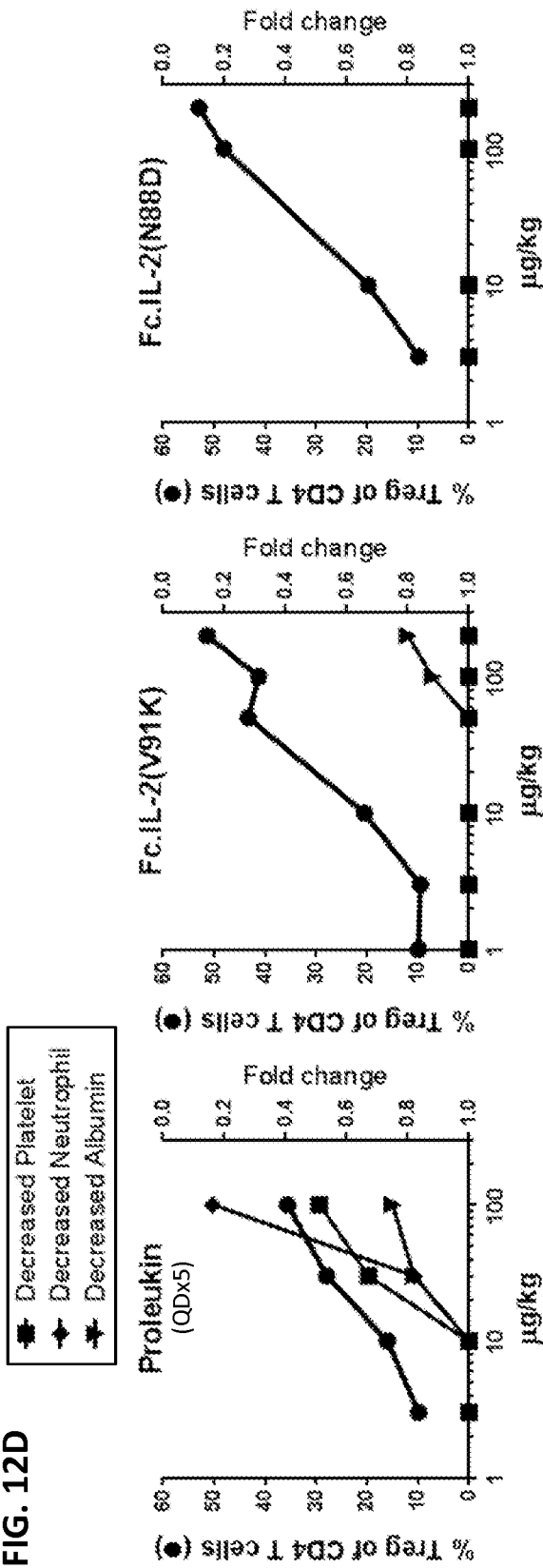


FIG. 13

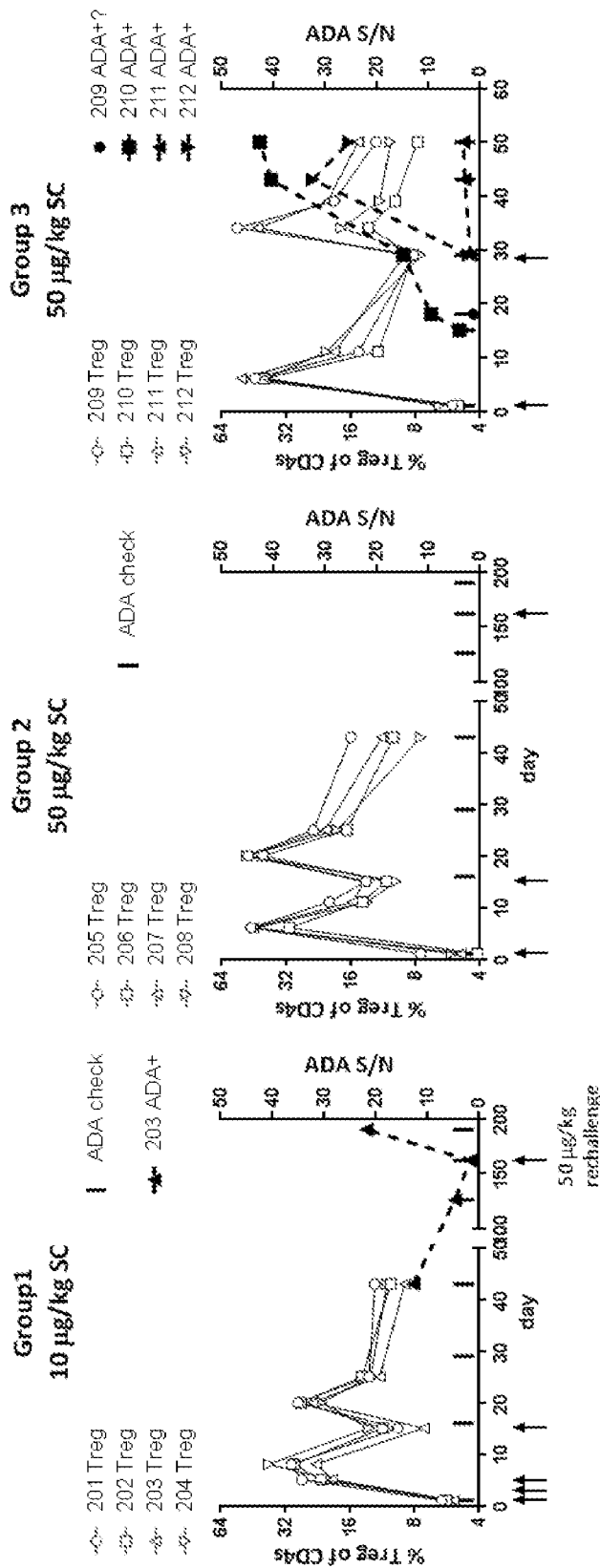


FIG. 14

	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

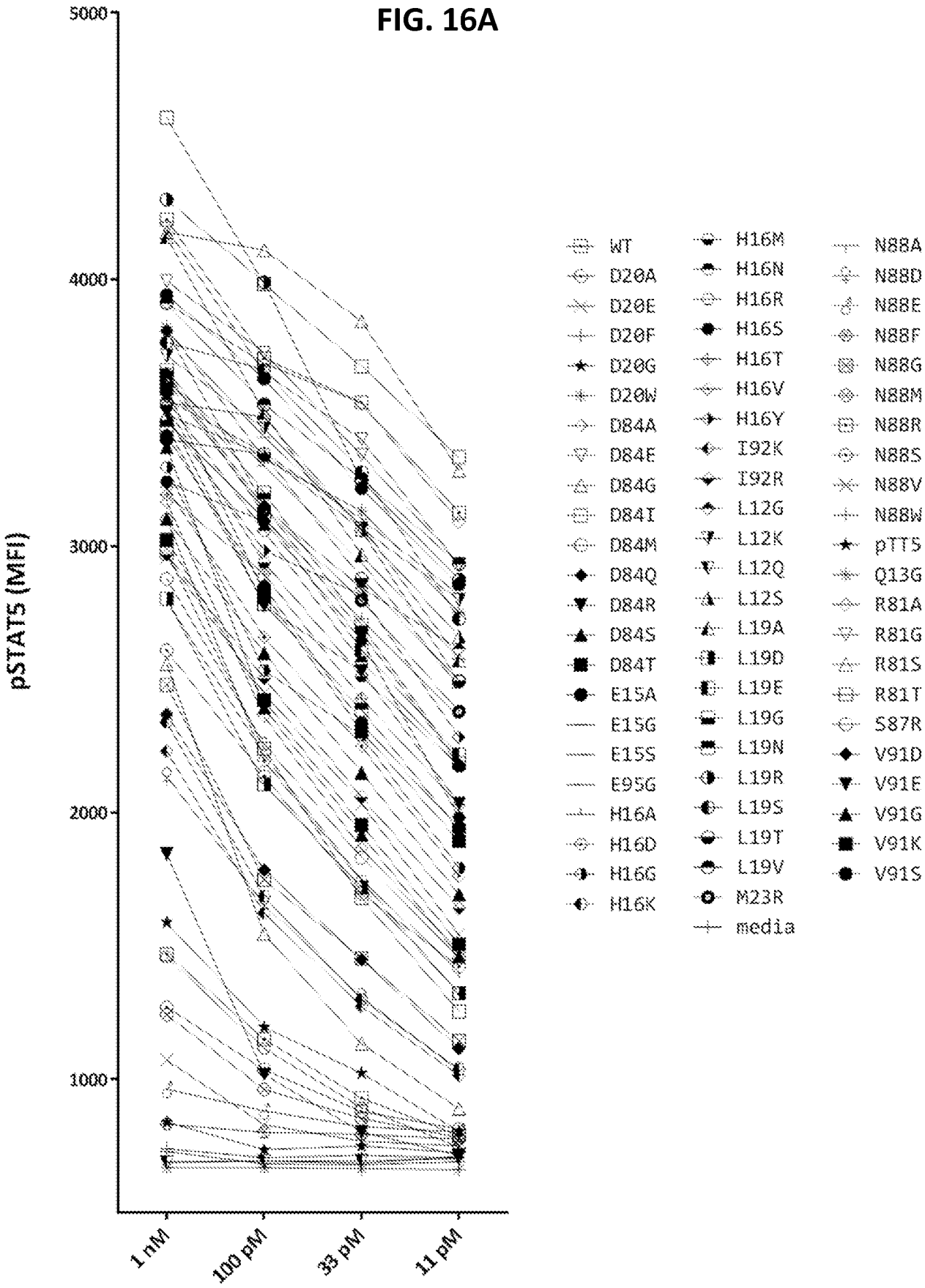


FIG. 16B

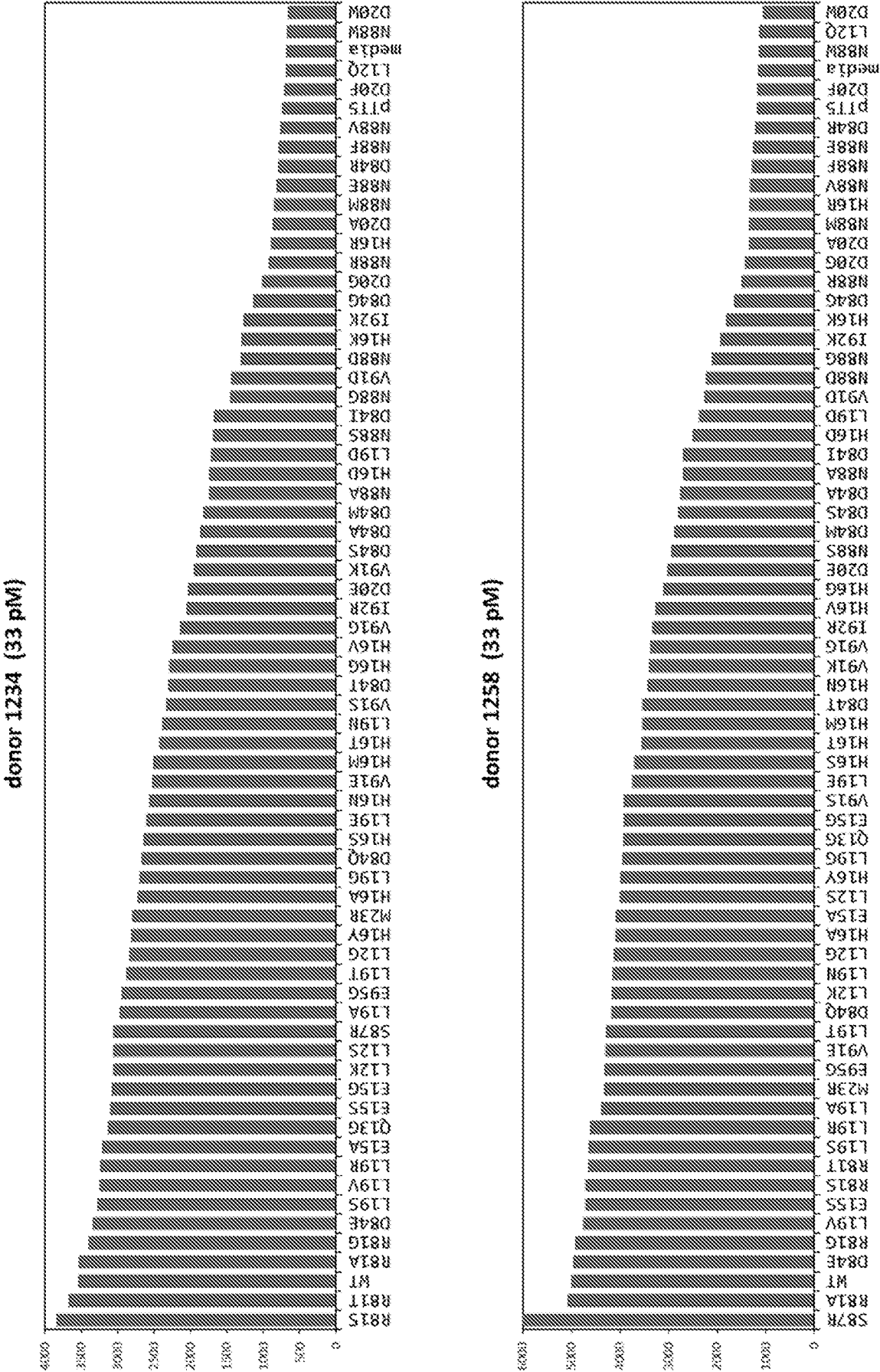


FIG. 17

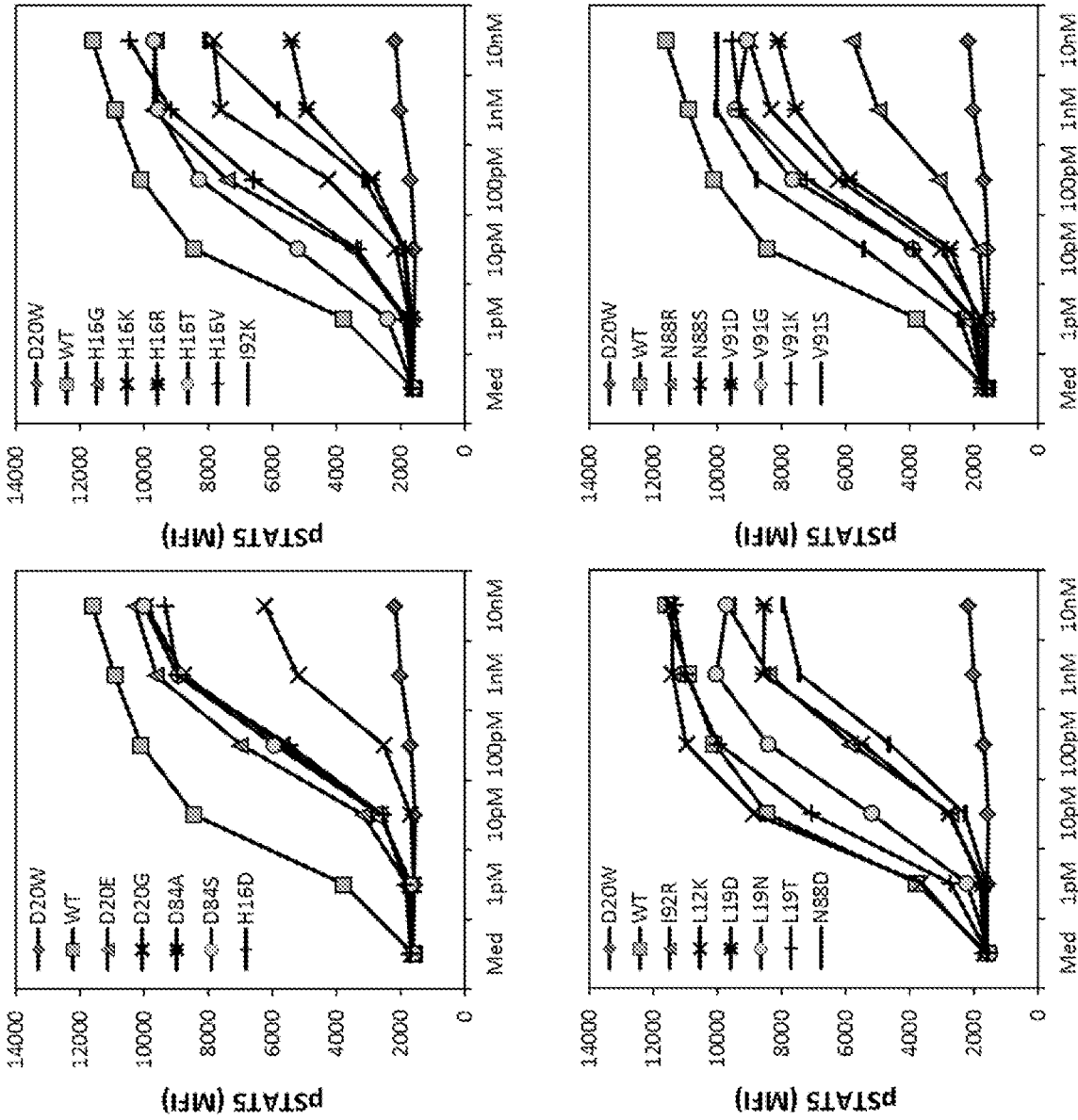


FIG. 18A

FOXP3⁻ CD4⁺ proliferation

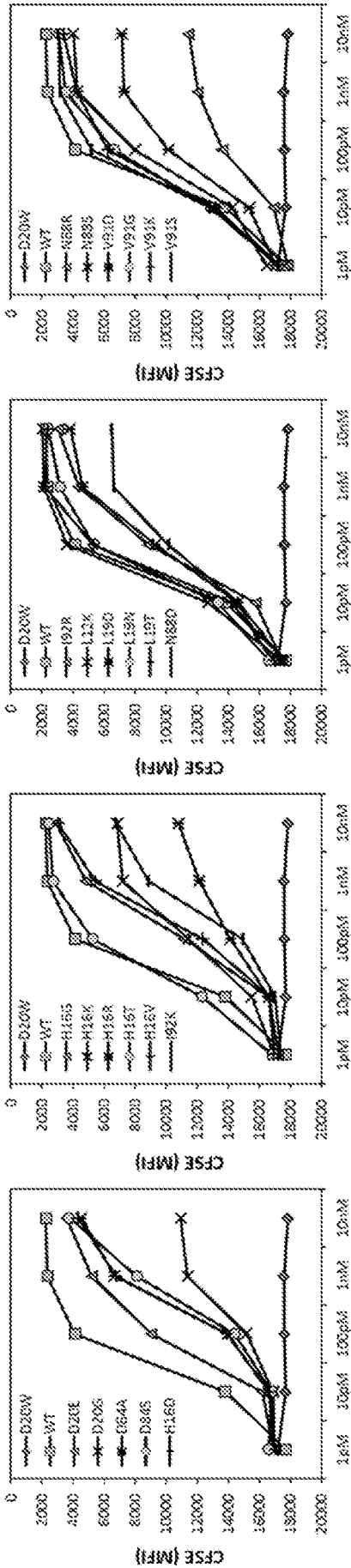
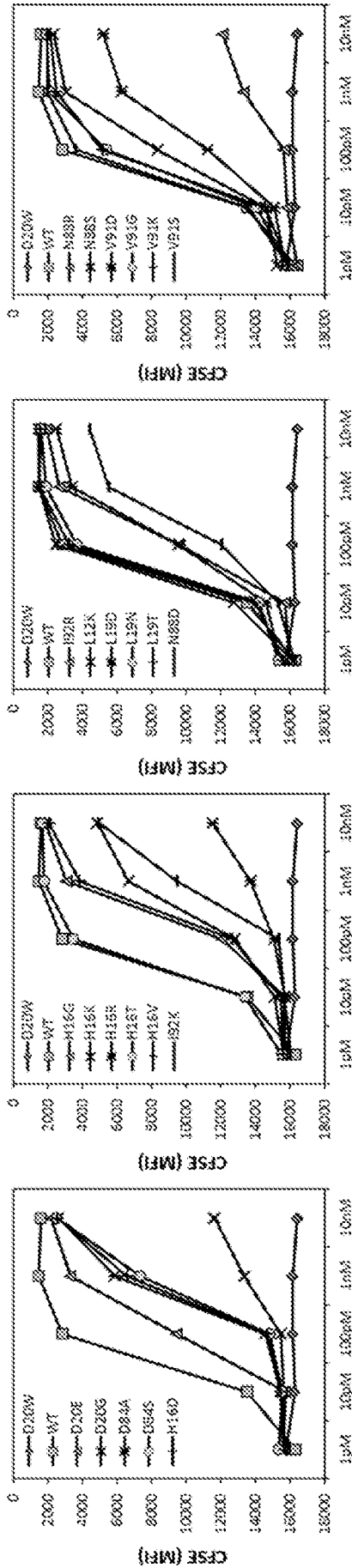


FIG. 18B

FOXP3⁻ CD8⁺ proliferation



FOXP3⁺ HELIOS⁺ CD4⁺ proliferation

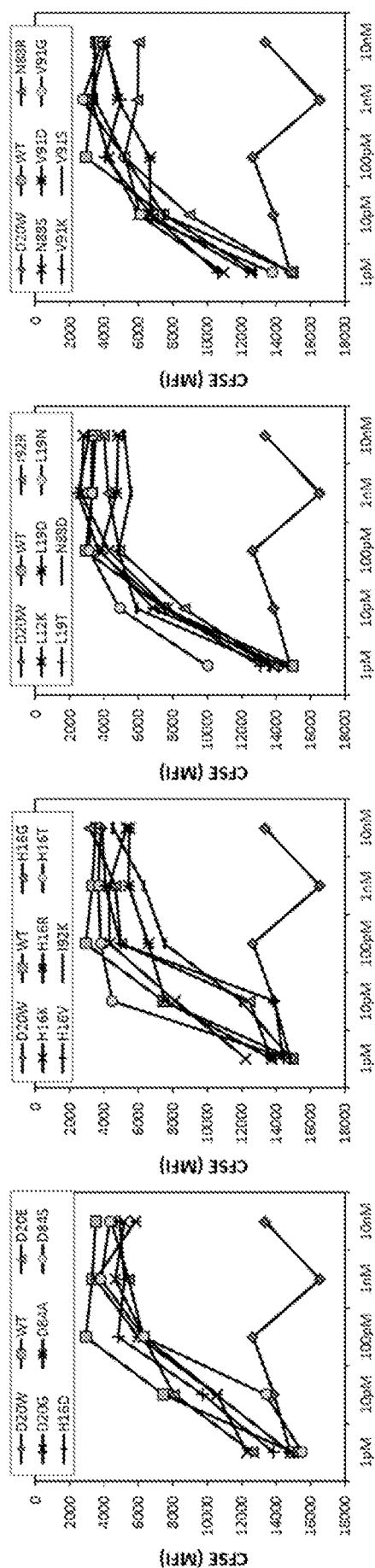


FIG. 18D

FOXP3 MFI in FOXP3⁺ HELIOS⁺ CD4⁺

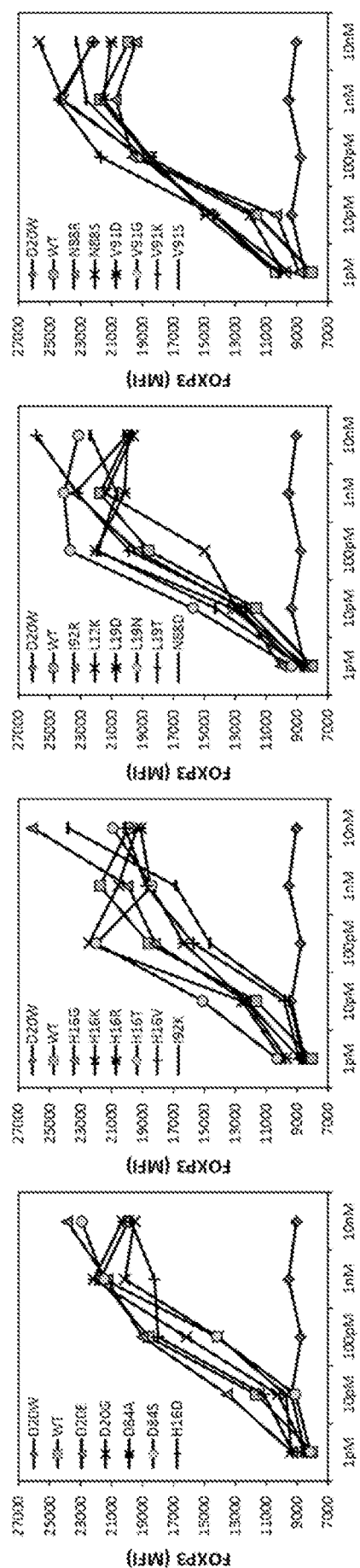
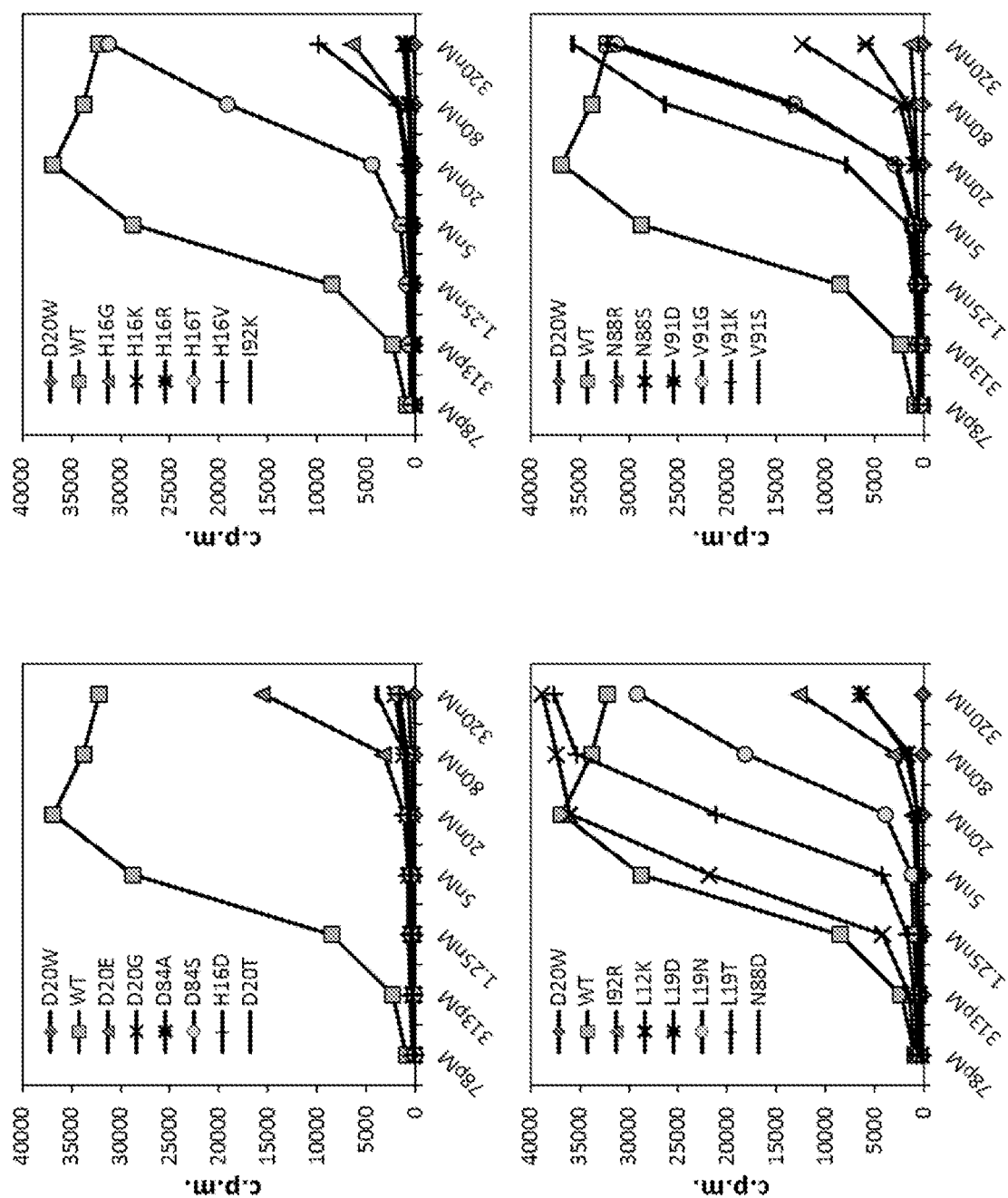


FIG. 19
NK proliferation



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FIG. 20A

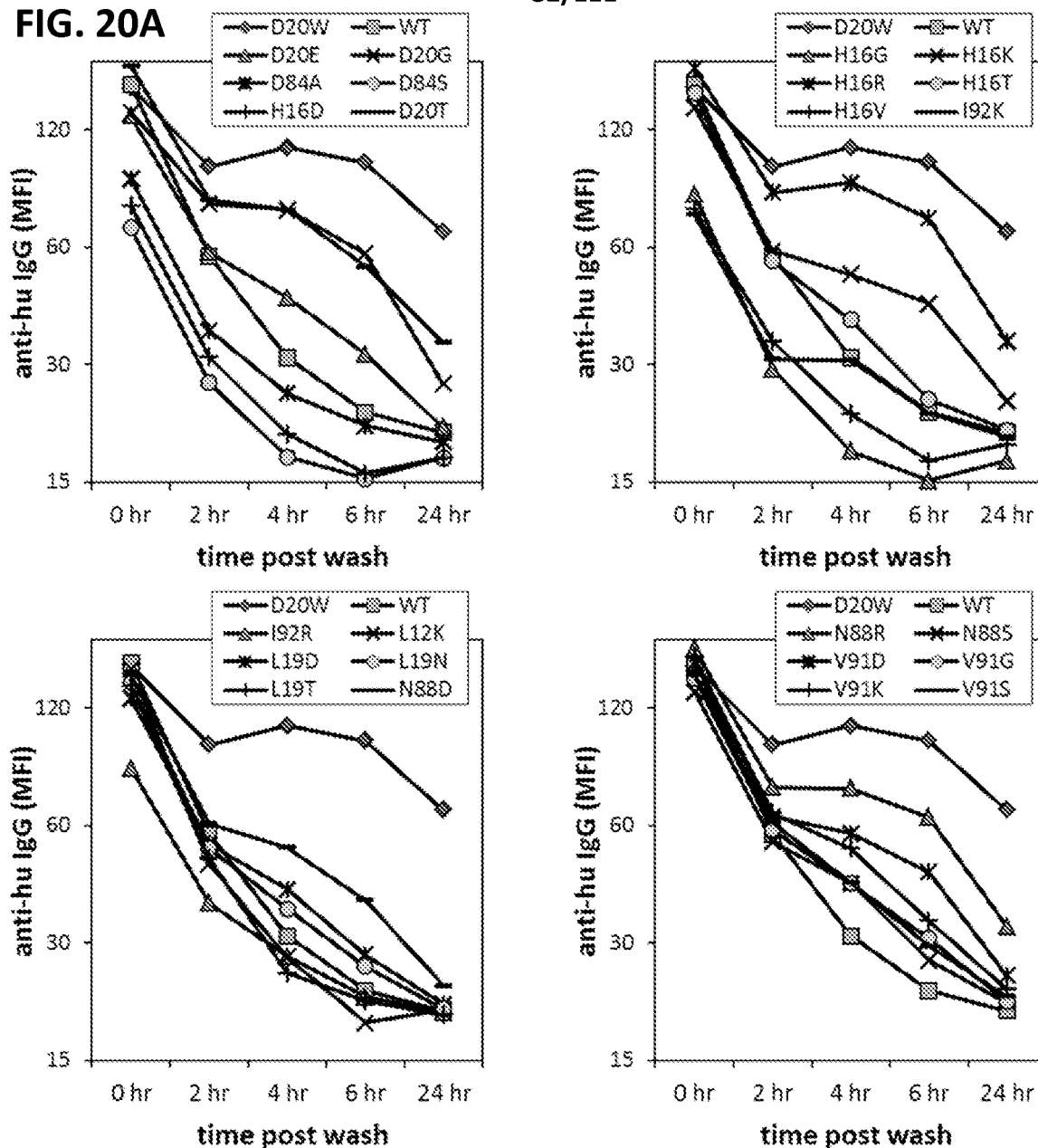


FIG. 20B

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

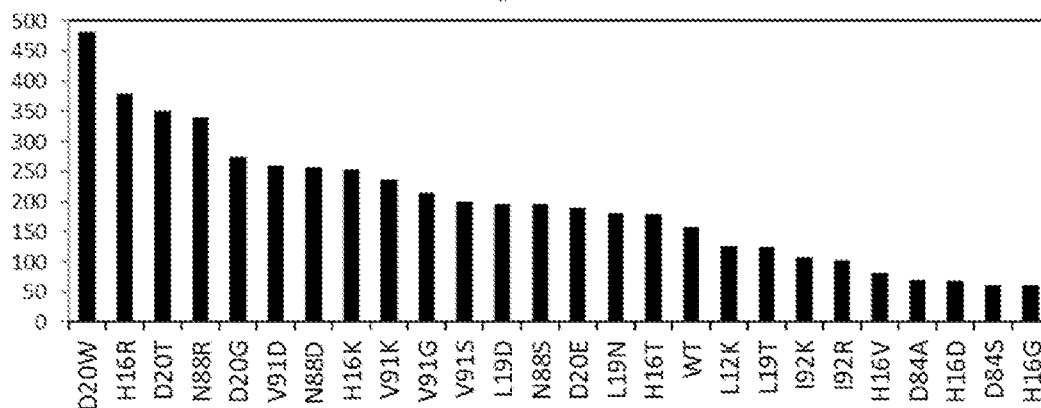


FIG. 21

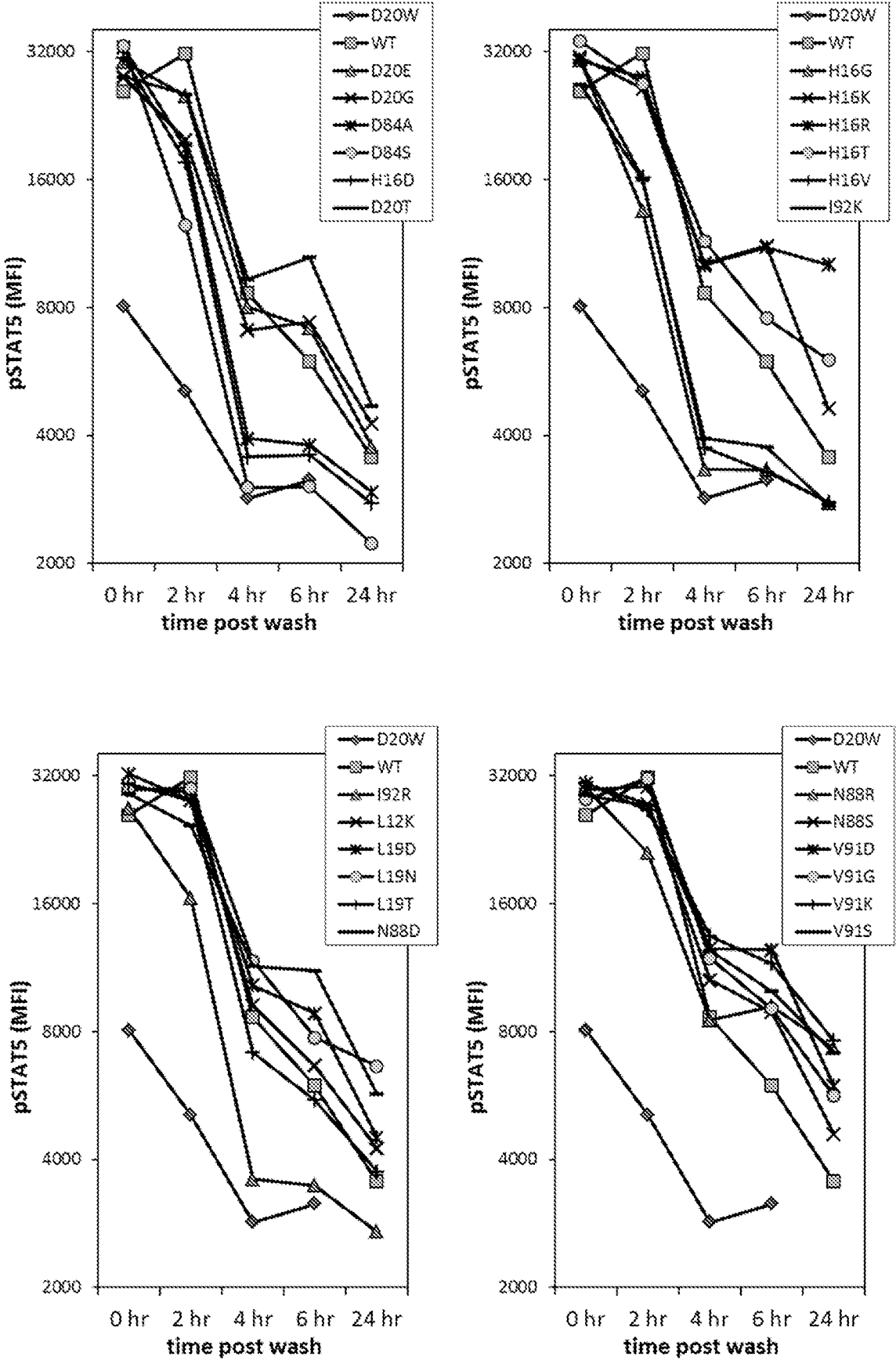


FIG. 22

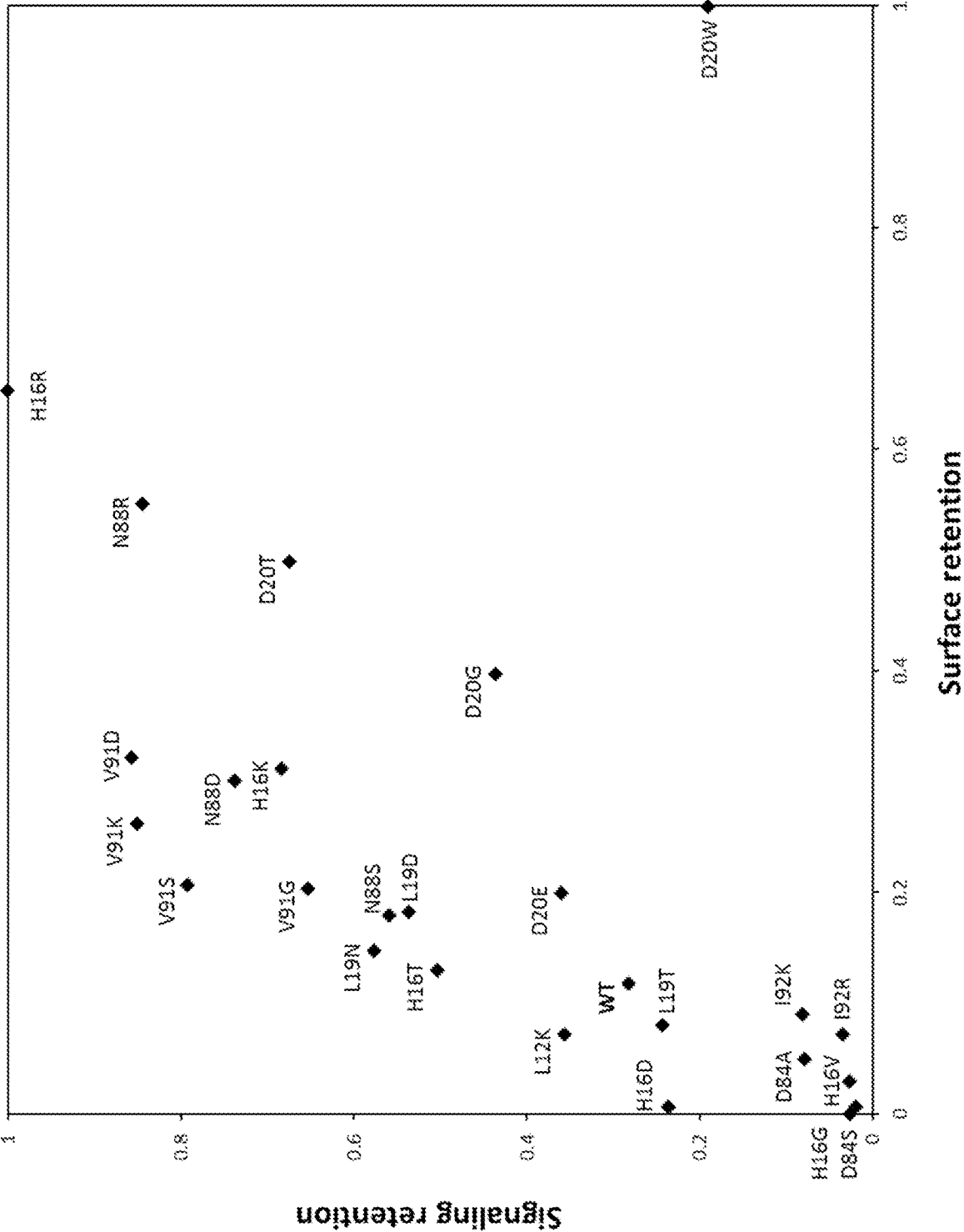


FIG. 23A

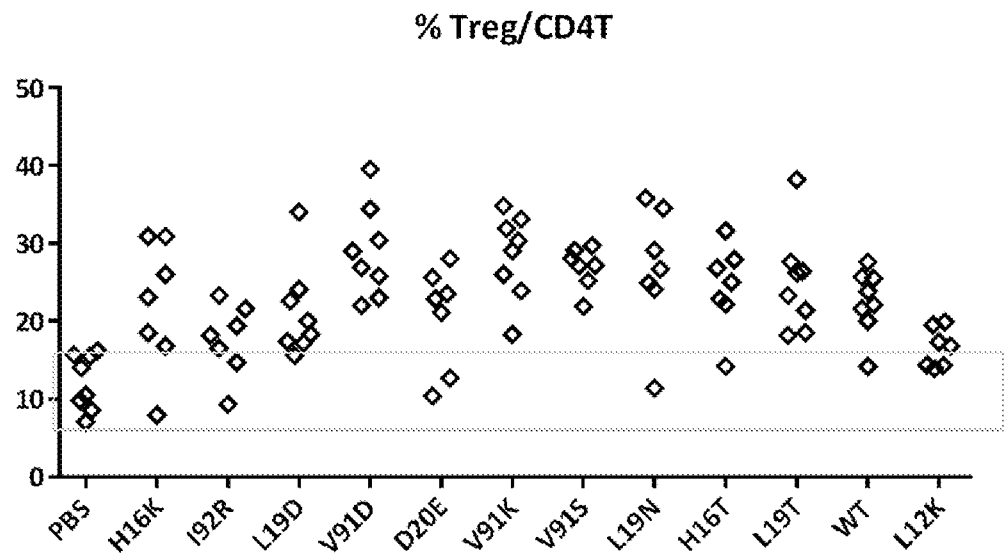


FIG. 23B

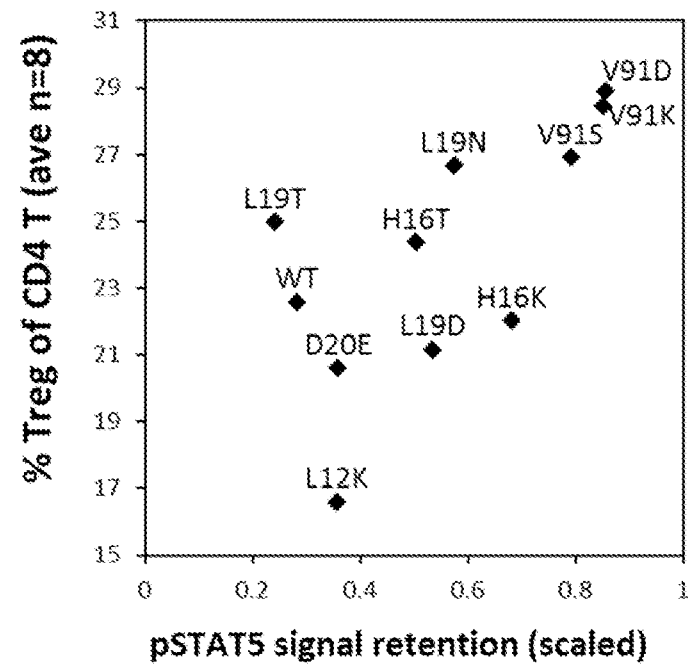


FIG. 24A Fc(N297G_delK)::G4S::IL-2(L12G, C125A)

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

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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
GGSAPTSSSTKKTQLQLAHLDDLQMILNGINNYKNPKLTRMLTFKFYMP
 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
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEALLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPG GG
GGSAPTSSSTKKTQLQLEDLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEGLLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEKLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEMLLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLENLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLERLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLESLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLETLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEVLDDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEYLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLADLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLALQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLLELQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLFLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLGLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLWLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQRILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLAPRDLISNINVIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLGPRDLISNINVIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLSRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLTPRDLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

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

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRELISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRGLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRILISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRMLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
 L DSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRQLISNINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLG¹LL¹WL¹RGARCDKTH¹TCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNV¹FSCSV¹MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQ¹MILNGINNYKNPKLTRMLTFKFYMP
KKATELKH¹LQCLEEELKPLEEVLNLAQSKNFHLRPRRLISNIN¹VIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLG¹LL¹WL¹RGARCDKTH¹TCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNV¹FSCSV¹MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQ¹MILNGINNYKNPKLTRMLTFKFYMP
KKATELKH¹LQCLEEELKPLEEVLNLAQSKNFHLRPRSLISNIN¹VIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLG¹LL¹WL¹RGARCDKTH¹TCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNV¹FSCSV¹MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQ¹MILNGINNYKNPKLTRMLTFKFYMP
KKATELKH¹LQCLEEELKPLEEVLNLAQSKNFHLRPRTLISNIN¹VIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLG¹LL¹WL¹RGARCDKTH¹TCPPCPAPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNV¹FSCSV¹MHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQ¹MILNGINNYKNPKLTRMLTFKFYMP
KKATELKH¹LQCLEEELKPLEEVLNLAQSKNFHLRPRDLIRNIN¹VIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISAINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISEINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISFINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISGINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISMINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISSINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISVINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPAPPELLGGPSVFLFPPKPK
 DTLNISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISWINVIVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINDIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINEIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINGIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPPELLGGPSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINSIVLELK
GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVKVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVRVLELK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

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

MDMRVPAQLLGLLLLWLRGARCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYGS
 TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
 YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
 DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGGG
GGSAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMP
 KKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLGLK
 GSETTFMCEYADETATIVEFLNRWITFAQSIISTLT

FIG. 25A

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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IgG1Fc(N297G_delK)::G4S::hull-2(L12K, C125A)

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FIG. 25B

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ctttgact

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

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

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FIG. 25C

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

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FIG. 25D

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

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

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FIG. 25E

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

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

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FIG. 25F

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

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 ctttgact

FIG. 25G

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

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

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FIG. 25H

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

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ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagATGttgtgtgttgacttgcaaatgatcttgaatggtatcaataatt
acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtgggga
cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa

FIG. 25I

tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
 gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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 ggagAACTtggttggttgacttgcaaatgatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcggttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
 gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
 ctgaactcctggggggaccgtcagtccttcttccccccaaaacccaag
 gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
 cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
 tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcggcagc
 acgtaccgtgtggtcagcgtcctcacgctcctgcaccaggactggctgaa
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 tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
 tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
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 agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagCGCTtggttggttgacttgcaaatgatcttgatggtatcaataatt
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
 ggccacgggacttgatctccaatatcaatgtgatcggttttggagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

FIG. 25J

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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gactccgacggctccttcttcctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagAGCttgttgttggtgacttgcaaatgatcttgaatggtatcaataatt
acaagaatccaaagttgactcggatgttgacttttaagttttacatgcca
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
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tacaccctgcccccatcccgaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagACCTtgttgttggtgacttgcaaatgatcttgaatggtatcaataatt

FIG. 25K

acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtgggga
cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgaggagatgaccaagaaccagggtcagcct
gacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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gactccgacgggtccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtccttctcatgctccgtgatgcatgaggctc
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acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtgggtgggga
cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
tggaggtgcataatgccaaagacaaagccgaggaggagcagtagcgcagc
acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa

FIG. 25L

tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
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gacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
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ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagTACttgttggacttgcaaagtatcttgatggtatcaataatt
acaagaatccaaagttgactcggatgttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccggaccctgaggtcacatgcgtgggtgggga
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acgtaccgtgtggtcagcgctcctcaccgctcctgcaccaggactggctgaa
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tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
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gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggttgGCGgacttgcaaagtatcttgatggtatcaataatt
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ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

FIG. 25M

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggttgGATgacttgcaaatgatcttgaatggtatcaataatt
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agaaggctactgagttgaagcacttgcaatggttgaggaggaggttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttgcc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
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
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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tacaccctgcccccatcccgaggagatgaccaagaaccagggtcagcct
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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
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tgagaggtgcataatgccaaagacaaagccgaggaggagcagtcaggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa

FIG. 250

tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcttccccccaaaacccaag
gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
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gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

FIG. 25P

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggtgTCGgacttgcaaatgatcttgaatggtatcaataatt
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agaaggctactgagttgaagcacttgcaatggttggaggaggagttgaa
gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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FIG. 25Q

acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggagcacttggtgGTGgacttgcaaatgatcttgaatggtatcaataatt
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

IgG1Fc(N297G_delK)::G4S::hulL-2(D20A, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
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cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
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FIG. 25R

tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
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caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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agaaggctactgagttgaagcacttgcaatggttgaggaggaggttgaa
gccattggaggaggttttgaatttggtcaatccaagaattttcacttg
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

FIG. 25S

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

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acgtaccgtgtgggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
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cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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tgcacaaccactacacgcagaagagcctctccctgtctccgggtggagggt
gggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggtgttgGGCttgcaaatgatcttgatgggtatcaataatt

FIG. 25T

acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacacgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
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ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacacgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
acgtaccgtgtggtcagcgtcctcacctcctgcaccaggactggctgaa

FIG. 25U

tggcaaggaggtacaagtgcaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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CGccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
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ctttgact

FIG. 25V

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctgggtgggga
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cgttgagtttttgaaatcggtggatcacttttgctcaatccatcatctcca
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IgG1Fc(N297G_delK)::G4S::hulL-2(R81S, C125A)

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgccagcac
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FIG. 25W

acaagaatccaaagttgactcggatggtgactttttaagttttacatgcc
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gccattggaggaggttttgaatttggctcaatccaagaattttcacttgT
CGccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

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gacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtgga
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tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
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CGccacgggacttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
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ctttgact

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

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cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
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FIG. 25X

tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
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 gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
 caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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 ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
 ggagcacttggtggttgacttgcaaatgatcttgatggtatcaataatt
 acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
 gccattggaggaggttttgaatttggtcaatccaagaattttcacttgc
 ggccacggGCCttgatctccaatatcaatgtgatcggttttgagttgaag
 ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
 cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
 ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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 cgtgagccacgaagaccctgaggtcaagttcaactggtagctggacggcg
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 aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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 ggccacggGAGttgatctccaatatcaatgtgatcggttttgagttgaag
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 ctttgact

FIG. 25Y

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

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gccattggaggaggttttgaaatttggtcaatccaagaattttcacttg
ggccacggGGCttgatctccaatatcaatgtgatcgttttggagttgaag
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cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

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FIG. 25Z

acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacggATCttgatctccaatatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgcgtggtggtgga
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cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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FIG. 25AA

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cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

FIG. 25BB

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

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FIG. 25CC

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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

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

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FIG. 25DD

tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
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ctttgact

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

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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccGAGatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

FIG. 25EE

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
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tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggtggttgacttgcaaatgatcttgatggtatcaataatt
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ggccacgggacttgatctccTTTatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
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tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg
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caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt
ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggtggttgacttgcaaatgatcttgatggtatcaataatt

FIG. 25FF

acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccGGTatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctccggacccctgaggtcacatgcgtggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgaggagagatgaccaagaaccaggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccagcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccgtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
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ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagcacttggtgttggtgacttgcaaatgatcttgaatggtatcaataatt
acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccATGatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
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cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa

FIG. 25GG

tggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccca
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccaggtcagcct
gacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtggg
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ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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gacaccctcatgatctcccggaccctgaggtcacatgcgtggtggtgga
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acgtaccgtgtggtcagcgctcctcaccgctcctgcaccaggactggctgaa
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aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggtcaatccaagaattttcacttgc
ggccacgggacttgatctccGTatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

FIG. 25HH

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgccagcac
ctgaactcctggggggaccgtcagtccttctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
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tggaggtgcataatgccaaagacaaagccgcgggaggagcagtagcggcagc
acgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaa
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ggccacgggacttgatctccTGGatcaatgtgatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaaatcgggtggatcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggaggt

FIG. 25II

ggtggaagcgctccaacttcctcctccactaagaagactcaattgcaatt
ggagcacttggtggttgacttgcaaatagatcttgatggtatcaataatt
acaagaatccaaagttgactcggatggttgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatggttgaggaggagttgaa
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ggccacgggacttgatctccaatatcaatGATatcggttttgagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcggatggtggtcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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ggccacgggacttgatctccaatatcaatGAGatcggttttgagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcggatggtggtcacttttgctcaatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgcccaccgtgcccagcac
ctgaactcctggggggaccgtcagtccttcctcttccccccaaaacccaag
gacaccctcatgatctcccgaccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg

FIG. 25JJ

tggaggtgcataatgccaaagacaaagccgcgggaggagcagtacggcagc
acgtaccgtgtggtcagcgtcctcacgtcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccca
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ggccacgggacttgatctccaatatcaatGGGatcgttttggagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccaccgtgccagcac
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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
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ggccacgggacttgatctccaatatcaatgtgAAGgttttgagttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
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ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
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agagcaatgggcagccggagaacaactacaagaccacgcctcccgtgctg

FIG. 25LL

gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggagggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
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acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
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cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

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

atggacatgagagtgcctgcacagctgctgggcctgctgctgctgtggct
gagaggcgccagatgcgacaaaactcacacatgccacccgtgccagcac
ctgaactcctggggggaccgtcagtccttcttccccccaaaacccaag
gacaccctcatgatctcccgacccctgaggtcacatgctggtggtgga
cgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaaagacaaagccgcgaggagcagtagcggcagc
acgtaccgtgtggtcagcgtcctcacgctcctgcaccaggactggctgaa
tggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccc
tcgagaaaaccatctccaaagccaaagggcagccccgagaaccacaggtg
tacaccctgcccccatcccgggaggagatgaccaagaaccagggtcagcct
gacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtggg
agagcaatgggcagccggagaacaactacaagaccagcctcccgtgctg
gactccgacggctccttcttctctatagcaagctcaccggtggacaagag
caggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctc
tgcacaaccactacacgcagaagagcctctccctgtctccgggtggagggt
ggtggaagcgctccaacttctcctccactaagaagactcaattgcaatt
ggagcacttggttggacttgcaaatgatcttgaatggtatcaataatt
acaagaatccaaagttgactcggatggtgacttttaagttttacatgcc
aagaaggctactgagttgaagcacttgcaatgtttggaggaggagttgaa
gccattggaggaggttttgaatttggctcaatccaagaattttcacttgc
ggccacgggacttgatctccaatatcaatgtgatcgttttgGGttgaag
ggttccgagactacttttatgtgtgagtacgctgacgagactgctactat
cgttgagtttttgaatcgggtggatcacttttgcataatccatcatctcca
ctttgact

90/111

FIG. 26 Light Chain Variable Domain Amino Acid Sequences

	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	
9D6	DIVMTQTPLSLPVTGPEPASI	<u>CRSSQSLLDSE</u> GNITYLDWYLQKPGQSPQLLIY	<u>TL</u> SYRASGV	PD	RFSGSGT	FT	TLTKISRVEADGVYYC <u>MQR</u> IEFPLTFGGG	
2C3	EIVLTQSPGTLSPGERATLS	<u>CRASQSFSS</u> YLVWYQQKPGAPRLIIY	<u>GASSR</u> ATGI	PD	RFSGSGSGT	FT	TLISRLEPEDFAVYYC <u>QY</u> GSSPLTFGGG	
14C9	DIVLTQTPLSSPVTLGQPASI	<u>CRSSHLLHSD</u> GNITYLSWLQORPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGT	FT	
8B12	DIVMTQTPLSSPVTLGQPASI	<u>CRSSQNLVQSD</u> GNITYLSWLHQRPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGSGAGT	FT	
16A4	DIVMTQTPLSSPVTLGQPASI	<u>CRSSQILVNSD</u> GNITYLSWLHQRPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGSGAGT	FT	
16E1	DIVMTQTPLSSPVTLGQPASI	<u>CRSSQSLVRSD</u> GNITYLSWLHQRPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGSGAGT	FT	
13A1	DIVMTQTPLSSPVTLGQPASI	<u>CRSSSHSLVHSD</u> GNITYLSWLQORPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGSGAGT	FT	
8F10	DIAMQSPLSLPVTGPEPASI	<u>CRSSQSLHSHNG</u> FNYLDWYLQKPGQSPQLII	<u>HLGSD</u> RAS	GV	PD	RFSGSGT	FT	
12C4	DIVMTQSPLSLPVTGPEPASI	<u>CRSSQSLHSHNG</u> FNYLDWFLQKPGQSPQLII	<u>YLGSD</u> RAS	GV	PD	RFSGSGT	FT	
9B12	DIVMTQSPLSLPVTGPEPASI	<u>CRSSQSLHSHNG</u> FNYLDWYLQKPGQSPQLII	<u>YLGSD</u> RAS	GV	PD	RFSGSGT	FT	
3H5	DIVMTQTPLSSPVTLGQPASI	<u>CRSSQSLVNI</u> DGSTHLSWLQORPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGSGAGT	FT	
18A6	EIVMTQTPLSSPVTLGQPASI	<u>CRSSQSLVQSD</u> GITYLSWLQORPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGSGAGT	FT	
10A6	DIVMTQTPLSSPVTLGQPASI	<u>CRSSQSLVNSD</u> GNITYLWYLQORPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGSGAGT	FT	
10H7	DIVMTQTPLSSPVTLGQPASI	<u>CRSSHNLVRSD</u> GNITYLSWLQORPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGSGAGT	FT	
15A10	NIVMTQTPLSSPVTLGQPASI	<u>CRSSQSLVQTD</u> GNITYLSWLQORPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGSGAGT	FT	
12D2	DIVMTQTPLSSPVTLGQPASI	<u>CRSSHNLHSD</u> GNITYLSWLHQRPGQPPRLIIY	<u>KISNR</u> FS	GV	PD	RFSGSGAGT	FT	
9B10	DIVMTQTPLSSPVTLGQPASI	<u>CRSSHNLHSD</u> GNITYLSWLQORPGQPPRLIIY	<u>YEISNR</u> FS	GV	PD	RFSGSGAGT	FT	
17D3	EIVLTQSPGTLSPGERATLS	<u>CRASQSVSS</u> YLAWYQQKPGAPRLIIY	<u>GASSR</u> ATGI	PD	RFSGSGT	FT	TLISRLEPEDFAVYYC <u>QY</u> GSSPLTFGGG	
15G11	EIVLTQSPGTLSPGERATLS	<u>CRASQSVSS</u> RYLAWYQQKPGAPRLIIH	<u>GFPSR</u> ATGI	PD	RFSGSGT	FT	TLISRLEPEDFAVYYC <u>QY</u> GNSSITFGQ	
14D7	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQTISS</u> YLNWYQQKPKGAPKRLIIY	<u>AASSFQ</u> SGVPS	RFSGSGT	FT	TLIS	SSLPEDFATYYC <u>QQ</u> SHYIPRTFGG	
18F3	SYELTQPPSVSPGQTARI	<u>ACSGDALPR</u> KKFAYWYQKSGQAPVLIV	<u>EDSR</u> RP	SGI	PER	FS	SSSGT	
17D9	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQDIR</u> NDLGWYQQKPGKAPKRLIIY	<u>AASSLQ</u> SGVPS	RFSGSGTE	FT	TLIS	SGAQVEADYYC <u>FSTD</u> SSANHRVFGG	
21F8	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQIR</u> DDLGWYQQKPGKAPKRLIIY	<u>ATSLQ</u> SGVPS	RFSGSGTE	FT	TLIS	SSLPEDFATYYC <u>LO</u> HNSYPLTFGGG	
22B9	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQDIR</u> DDLGWYQQKPGKAPKRLIIY	<u>VASSLQ</u> SGVPS	RFSGSGTE	FT	TLIS	SSLPEDFATYYC <u>LO</u> HISYPWTFGG	
21D10	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQDIR</u> DDLGWYQQKPGKAPKRLIIY	<u>VVSSLQ</u> SGVPS	RFSGSGTE	FT	TLIS	SSLPEDFATYYC <u>LO</u> HNGYPWTFGG	
14A6	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQIG</u> DDLGWYQQKPGKAPQRLIIY	<u>SASSL</u> PS	GVPS	RFSGSGTE	FT	TLIS	SSLPEDFATYYC <u>LO</u> HNSYPRSFGG
11D6	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQDIE</u> HDLGWYQQKPGKAPKRLIIY	<u>AASLT</u> PS	GVPS	RFSGSGTE	FT	TLIS	SSLPEDFATYYC <u>LO</u> HNSFPFRSGG
10A9	DIVMTQTPLSLPVTGPEPASI	<u>CRSSQSLLDG</u> DDGNITLWYLQKPGQSPQLIIY	<u>TL</u> SYRAS	GV	PD	RFSGSGT	FT	TLTKISRVEADGVYYC <u>MQR</u> IEFPLTFGGG
16E3	DIVMTQTPLSLPVTGPEPASI	<u>CRSSQSLLD</u> SEGNITLWYLQKPGQSPQLIIY	<u>TL</u> SYRAS	GV	PD	RFSGSGT	FT	TLTKISRVEADGVYYC <u>MQR</u> IEFPLTFGGG
14G7	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQDIS</u> NLYLNWYQQKPGKAPKRLIIY	<u>DASN</u> LET	GVPS	RFSGSET	FT	TLIS	SSLPEDFATYYC <u>QY</u> ENLPFTFGP
5H3	SYELTQPPSVSPGQTARI	<u>TCSGDALPR</u> QYAYWYQKPGQAPMLIV	<u>KD</u> SER	PSGI	PER	FS	SSSGT	TVTLTIS
2B12	SYELTQPPSVSPGQTARI	<u>TCSGDALPR</u> KYAYWYQKSGQAPVLIV	<u>YEDSK</u> RP	SGI	PER	FS	SSSGT	MTATLTIS
26H7	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQDIS</u> NLYLNWYQQKPKGAPKFLIY	<u>DASN</u> LET	GVPS	RFSGSGT	FT	TLIS	SNLPEDFATYFC <u>QD</u> DDLPTFGP
26C12	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQDIS</u> NLYLNWYQQKPKGAPKRLIIY	<u>DASN</u> LET	GVPS	RFSGSGT	FT	TLIS	SNLPEDFATYFC <u>QY</u> DDLPTFGP
2H11	SYELTQPPSVSPGQTARI	<u>TCSGDALPR</u> KKFAYWYQKSGQAPVLIV	<u>YEDKR</u> PSGI	PER	FS	SSSGT	MTATLTIS	SGAQVEADYYC <u>YSTD</u> RSRSHVFGG
18H9	DIQMTQSPSSLSASVGDRVTIT	<u>CRASQGIS</u> NLWLVWYQQKPGKPPKRLIIY	<u>AASSLQ</u> NGVPS	RFSGSGT	FT	TLIS	SSLPEDFATYYC <u>QY</u> ALSFPTFGP	

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

9D6

GATATTGTGATGACCCAGACTCCACTCTCCTTGCCCGTCACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAGAGCCTCTTAGATAGTGATGAGGGAAACACCTATTTGGACTGGTACCTGCAGAAGCCAGGGCAGTCTCCACA
GCTCCTGATCTATACGCTTTCCTATCGGGCCTCTGGAGTCCCAGACAGGTTCA GTGGCACTGGGTCAGACACTGAT
TTCACACTGAAAATCAGCAGGGTGGAGGCTGAGGATGTTGGAGTTTATTACTGCATGCAACGTATAGAGTTTCCTC
TCACTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGA

2C3

GAAATTGTATTGACGCAGTCTCCAGGCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCA
GTCAGAGTTTTAGCAGCAGCTACTTAGTCTGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGG
TGCATCCAGCAGGGCCACTGGCATCCCAGACAGGTTGGTGGCAGTGGGTCTGGGACAGACTTCACTCTCACCAT
CAGCAGACTGGAGCCTGAAGATTTTGCAGTGTATTACTGTCAGCAGTATGGTAGCTCACCTCTCACTTTCGGCGGA
GGGACCAAGGTGGAGATCAAACGA

14C9

GATATTGTGCTGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCATCACCTCATACACAGTGATGGAAACACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGTTCTCTGGGGTCCCAGACAGATTCACTGGCAGTGGGACAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGAAAGCTGGGGATGTCGGGGTTTATTACTGCATGCAAACCTACACAATTTCCGACGT
TCGGCCAAGGGACCAAGGTGGAAATCAAACGA

8B12

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCCAG
TCAAAACCTCGTTCAAAGTGATGGAAACACCTACTTGAGTTGGCTTCACCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGTTCTCTGGGGTCCCAGACAGATTCACTGGCAGTGGGGCAGGGACAGATTTCA
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
CACTGAAGATCAGCAGGGTGGAAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACTACACAATTTCCCCACC
TTCGGCCAAGGGACACGACTGGAGATTAAACGA

18A6

GAAATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCCTGGACAGCCGGCCTCCATTTCTGCAGGTCTAG
TCAAAGCCTCGTTCAGAGTGATGGAATCACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGAAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACTACACAATTTCCGACGT
TCGGCCAAGGGACCAAGGTGGAAATCAAACGA

FIG. 27D

10A6

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAAAGCCTCGTAAACAGTGATGGAAACACCTACTTGAATTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACT
CCTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTT
ACACTGAAAATCAGCAGGGTGGAAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAGCTACACAATTTCCGACG
TTCGGCCAAGGGACCAAGGTGGAAATCAAACGA

10H7

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCCAG
TCACAACCTCGTACGCAGTGATGGAAACACCTACTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACT
CCTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTT
ACACTGAAAATCAGCAGGGTGGGAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAGCTACACAATTTCCCACC
TTCGGCCAAGGGACGCGACTGGAGATTAAACGA

15A10

AATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGCAGGTCTAG
TCAAAGCCTCGTACAAACTGATGGAAACACATATTTGAGTTGGCTTCAGCAGAGGCCAGGCCAGCCTCCAAGACC
CCTAATTTATAAGATTTCTAACCGGTTTTCTGGGGTCCCAGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTT
ACACTGAAAATCAGCAGGGTGGAAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAGTAACACAATTTCCCACC
TTCGGCCAAGGGACACGACTGGAGATTAAACGA

12D2

GATATTGTGATGACCCAGACTCCACTCTCCTCACCTGTCACCCTTGGACAGCCGGCCTCCATCTCCTGTAGGTCTAG
TCATAACCTCATACACAGTGATGGAAACACCTACTTGAGTTGGCTTCACCAGAGGCCAGGCCAGCCTCCAAGACTC
CTAATTTATAAGATTTCTAACCGGTTCTCTGGGGTCCCGGACAGATTCAGTGGCAGTGGGGCAGGGACAGATTTCA
CACTGAAAATCAGCAGGGTGGAAAGCTGAGGATGTCGGGGTTTATTACTGCATGCAAACTTCACAGTTTCCCCTTT
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

TCCTATGAGCTGACACAGCCACCCTCGGTGTCACTGTCCCCAGGACAAACGGCCAGGATCGCCTGCTCTGGAGAT
GCATTGCCAAGAAAATTTGCTTATTGGTACCAGCAGAAGTCAGGCCAGGCCCTGTGCTGGTCATCTCTGAGGACA
GCAGACGACCCTCCGGGATCCCTGAGAGATTCTCTGGCTCCAGCTCAGGGACAATGGCCACCTTGACTATCAGTG
GGGCCAGGTGGAGGATGAAGCTGACTACTACTGTTTCTCAACAGACAGCAGTGCTAATCATAGGGTATTCGGCG
GAGGGACCAAGCTGACCGTCCTAGGT

17D9

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATTAGAAATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGCTG
CATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTAGCGGCAGTGGATCTGGGACAGAATTCATCTCACAATCG
GCAGCCTGCAGCCTGAAGATTTTACAACCTTATTACTGTCTACAGCATAATAGTTACCCGCTCACTTTCGGCGGAGG
GACCAAGGTGGAGATCAAACGA

21F8

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGGCATTAGAGATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATATTG
CAACCAGTTTGCAAAGTGGGGTCCCATCAAGGTTAGCGGCAGTGGATCTGGGACAGAATTCATCTCACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATATTAGTTACCCGTGGACGTTTCGGCCAAGG
GACCAAGGTGGAAATCAAACGA

22B9

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATCAGAGATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGTTG
CATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTAGCGGCAGTGGATCTGGGACAGAATTCATCTCACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATATTAGTTACCCGTGGACGTTTCGGCCAAGG
GACCAAGGTGGAAATCAAACGA

FIG. 27G

21D10

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATTAGAGATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGTTG
TATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTTCAGCGGCAGTGGATCTGGGACAGAGTTCACTCTCACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATAATGGTTACCCGTGGACGTTTCGGCCAAGG
GACCAAGGTGGAAATCAAACGA

14A6

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGGCATTGGAGATGATTTAGGCTGGTATCAGCAGAAGCCAGGAAAAGCCCCTCAGCGCCTGATCTATTCTG
CATCCAGTTTGCCAAGTGGGGTCCCATCAAGGTTTCAGCGGCAGTGGATCTGGGACAGAATTCCTCTCACAATCA
GCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATAATAGTTACCCTCGCAGTTTTGGCCAGGG
GACCAAGCTGGAGATCAGACGA

11D6

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCAA
GTCAGGACATTGAACATGATTTAGGCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCGCCTGATCTATGCTG
CATCCACTTTGCCAAGTGGGGTCCCATCAAGGTTTCAGCGGCAGTGGATCTGGGACAGAATTCCTCTCACAATCAG
CAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCTACAGCATAATAGTTTCCCTCGCAGTTTTGGCCAGGGGA
CCCAGCTGGAGATCAAACGA

10A9

GATATTGTGATGACCCAGACTCCACTCTCCCTGCCCCTGACCCCTGGAGAGCCGGCCTCCATCTCCTGCAGGTCTAC
TCAGAGCCTCTTGATGGTATGATGGAAACACCCCTTTGGACTGGTACCTGCAGAAGCCAGGGCAGTCTCCACA
GCTCCTGATCTATACGCTTTCCTATCGGGCCTCTGGAGTCCCAGACAGGTTTCAGTGGCAGTGGGTTCAGGCACTGAT
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
ATCCAGTTTGCAAATGGGGTCCCATCAAGATTCAGCGGCAGTGGATCTGGGACAGATTTCACTCTACCATCAGC
AGCCTGCAGACTGAAGATTTTGCAACTTACTATTGTCAACAGGCTCTCAGTTTCCCGTGGACGTTTCGGCCCAGGGA
CCAAGGTGGAAGTCAAACGA

FIG. 28 Heavy Chain Variable Domain Amino Acid Sequences

	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4
9D6	EVQLVQSGAEVKKPESGSLKISCKGSGYRFT	<u>SYWIG</u> WVRQMPGKGLIEWG	IIHPGSDTRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR	<u>QGRSFYYIGMDV</u> WGQGT
2C3	EVQLVQSGAEVKKPESGSLKISCKGSGYRFT	<u>SYWIG</u> WVRQMPGKGLIEWG	IIYPGSDTRISPSFQ	QVTTISADKSI	AAAYLQWSSLKASD	TAIYYCFR	<u>QQAAGMLDY</u> WGQGT
14C9	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>IYGMH</u> WVRQAPGKGLIEWV	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>EDFDSHYGMDV</u> WGQGT
8B12	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>EEWFGEADY</u> GMDVWGQGT
16A4	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>DDWFGEADY</u> GMDVWGQGT
16E1	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWV	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>EDWLFGEADY</u> GMDVWGQGT
13A1	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>EEWELEDY</u> GMDVWGQGT
8F10	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>GAVAGTGRDYY</u> YIGMDVWGQGT
12C4	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>GAVAGTGRDYY</u> YIGMDVWGQGT
9B12	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>QVAGTGRDYY</u> YIGMDVWGQGT
3H5	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SFGMH</u> WVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>DDFWSDY</u> PFDYWGQGT
18A6	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>DLYSSAWPFDY</u> WGQGT
10A6	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYD</u> IHWVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>DGEQNRGFDY</u> WGQGT
10H7	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYD</u> IHWVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>DGEQWLAFDY</u> WGQGT
15A10	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>TYGMH</u> WVRQAPGKGLIEWA	VIWYDGSNEYADSVK	GRFTISRDI	SKNTLYLQWSSLRAED	TAIYYCFR	<u>DNWGSDAFDI</u> WGQGT
12D2	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>TYAMH</u> WVRQAPGKGLIEWA	VIWYDGINKYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>GSYYDSSGYY</u> YIGMDVWGQGT
9B10	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYAMH</u> WVRQAPGKGLIEWA	VIWYDGINKYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR	<u>GSYYDSSGYY</u> YIGMDVWGQGT
17D3	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>DYIMS</u> WVRQAPGKGLIEWV	YISSSGSI	IFYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR
15G11	QVTLKESGPVLVKPTETLTCTVSGFSL	<u>NARMGVS</u> WIRQPPGKALEWLA	HIFSNDEKSY	STSLKS	RVLTISK	DTSKQWLTMTNMDP	VDATYYCVR
14D7	QVQLQESGPGLVKPSQTLTCTVSGGSI	<u>SGGYYWN</u> WIRQHPGKGLEWIC	YIYSGNTHYNP	SLKS	RVLTISV	DTSKNQFSLKLS	SVIAADTAIYYCAR
18F3	QVQLQESGPGLVKPSQTLTCTVSGGSI	<u>SGGYYWS</u> WIRQHPGKGLEWIC	YIYSGSTDYNP	SLKS	RGIIISG	DTSKNQFSLKLS	SVTAADTAIYYCAR
17D9	QVQLQESGPGLVKPSQTLTCTVSGGSI	<u>SGGYYWS</u> WIRQPPGKGLEWIC	NTYISGSTNYK	PKSLKS	RVLTISV	DTSKNQFSLKLS	SVTAADTAIYYCAR
21F8	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYD</u> INWVRQATGQGLEWVG	WMNPNSGNTGYA	QKFKQ	GRVTMT	RNTSISTAYMEL	SSLRSED
22B9	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYD</u> INWVRQATGQGLEWVG	WMNPNSGNTGYA	QKFKQ	GRVTMT	RNTSISTAYMEL	SSLRSED
21D10	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>SYD</u> INWVRQATGQGLEWVG	WMNPNSGNTGYA	QKFKQ	GRVTMT	RNTSISTAYMEL	SSLRSED
14A6	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>TYD</u> INWVRQATGQGLEWVG	WMNPNSGNTGYA	QKFKQ	GRVTMT	RNTSISTAYMEL	SSLRSED
11D6	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYD</u> INWVRQATGQGLEWVG	WMNPNSGNTGYA	QKFKQ	GRVTMT	RNTSISTAYMEL	SSLRSED
10A9	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>QWIG</u> WVRQMPGKGLIEWG	IIIPGSDTRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR	<u>QGRSHYYIGMDV</u> WGQGT
16E3	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLIEWG	IIYPGSDTRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR	<u>QGRSHYYIGMDV</u> WGQGT
14G7	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLIEWG	IIYPGSDTRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR	<u>HRGGRSHYYIGMDV</u> WGQGT
5H3	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLIEWG	IIYPGSDTRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR	<u>EGFGEISHYGLDV</u> WGQGT
2B12	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLIEWG	IIYPGSDTRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR	<u>HGGGWSGMDV</u> WGQGT
26H7	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLIEWG	IIYPGSDTRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR	<u>HGGYGRSHYYIGMDV</u> WGQGT
26C12	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLIEWG	IIIPGSDTRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR	<u>HGGSSSSGRTHYYGLDV</u> WGQGT
2H11	EVQLVQSGAEVKKPESGSLKISCKGSGYFT	<u>TYWIG</u> WVRQMPGKGLIEWG	IIYPGSDTRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR	<u>DTGYFDY</u> WGQGT
18H9	QVQLVESGGGVVQPGRSRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	VIWYDGSNKFYD	SVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCFR

FIG. 28 Heavy Chain Variable Domain Amino Acid Sequences

	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4
9D6	EVQLVQSGAEVKKPESGLKISCKGSGYRFT	<u>SYWIG</u> WVRQMPGKGLIEWG	<u>IIHPGSD</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCFR	<u>QGRSFYY</u> IGMDVWGQGT
2C3	EVQLVQSGAEVKKPESGLKISCKGSGYRFT	<u>SYWIG</u> WVRQMPGKGLIEWG	<u>IIYPGSD</u> TRISPSFQ	QVTTISADKSI	AAAYLQWSSLKASD	TAIYYCAR	<u>QQVAGMLD</u> YWGQGT
14C9	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>IYGMH</u> WVRQAPGKGLIEWV	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>EDFDSHY</u> GMDVWGQGT
8B12	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>EEWFG</u> GEADYGM
16A4	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>DDWFG</u> GEADYGM
16E1	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWV	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>EDWLG</u> GEADYGM
13A1	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>EEWELED</u> YGM
8F10	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>GAVAGTGR</u> DY
12C4	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>GAVAGTGR</u> DY
9B12	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>QVAGTGR</u> DY
3H5	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SFGMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>DDFWSD</u> Y
18A6	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>DLYSSAW</u> PF
10A6	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYD</u> IHWVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>DGEQNR</u> GF
10H7	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYD</u> IHWVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>DGEQNR</u> GF
15A10	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>TYGMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDI	SKNTLYLQWSSLRAED	TAIYYCAR	<u>DNWGSD</u> AF
12D2	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>TYAMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>GSYYDSS</u> GY
9B10	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYAMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>GSYYDSS</u> GY
17D3	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>DYIMS</u> WVRQAPGKGLIEWV	<u>YISSSGS</u> I	IFYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR
15G11	QVTLKESGPVLVKPSTETLTCTVSGFSL	<u>NARMGVS</u> WIRQPPGKALEWLA	<u>HIFSNDEKS</u> Y	STSLKS	RVLTISK	DTSKQWLTMTNMDP	VTATYYCVR
14D7	QVQLQESGPVLVKPSTETLTCTVSGGSI	<u>SGGYYNN</u> WIRQHPGKGLEWIC	<u>YIYSGNTH</u> NP	SLKS	RVLTISV	DTSKNQFSLKLS	SVIAADTAIYYCAR
18F3	QVQLQESGPVLVKPSTETLTCTVSGGSI	<u>SGGYYNS</u> WIRQHPGKGLEWIC	<u>YIYSGST</u> DP	NP	SLKS	RVLTISG	DTSKNQFSLKLS
17D9	QVQLQESGPVLVKPSTETLTCTVSGGSI	<u>SGGYYNS</u> WIRQPPGKGLEWIC	<u>NTYISG</u> STN	YK	PSLKS	RVLTISV	DTSKNQFSLKLS
21F8	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYD</u> INWVRQATGQGLEWVG	<u>WMNPNSG</u> NTGYA	QK	FQGRV	MTFRNTS	ISTAYMELSS
22B9	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYD</u> INWVRQATGQGLEWVG	<u>WMNPNSG</u> NTGYA	QK	FQGRV	MTFRNTS	ISTAYMELSS
21D10	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>SYD</u> INWVRQATGQGLEWVG	<u>WMNPNSG</u> NTGYA	QK	FQGRV	MTFRNTS	ISTAYMELSS
14A6	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>TYD</u> INWVRQATGQGLEWVG	<u>WMNPNSG</u> NTGYA	QK	FQGRV	MTFRNTS	ISTAYMELSS
11D6	QVQLVQSGAEVKKPGASVKVCKASGYFT	<u>NYD</u> INWVRQATGQGLEWVG	<u>WMNPNSG</u> NTGYA	QK	FQGRV	MTFRNTS	ISTAYMELSS
10A9	EVQLVQSGAEVKKPESGLKISCKGSGYFT	<u>QWIG</u> WVRQMPGKGLIEWG	<u>IIIPGSD</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR	<u>QGRSHYY</u> IGMDVWGQGT
16E3	EVQLVQSGAEVKKPESGLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLIEWG	<u>TIYPGSD</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR	<u>QGRSHYY</u> IGMDVWGQGT
14G7	EVQLVQSGAEVKKPESGLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLIEWG	<u>IIYPDSD</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR	<u>HRGGRS</u> Y
5H3	EVQLVQSGAEVKKPESGLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLIEWG	<u>IIYPGSD</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR	<u>EGFGE</u> SI
2B12	EVQLVQSGAEVKKPESGLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLIEWG	<u>IIYPGSD</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR	<u>HGGG</u> SG
26H7	EVQLVQSGAEVKKPESGLKISCKGSGYFT	<u>NYWIG</u> WVRQMPGKGLIEWG	<u>IIYPGSD</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR	<u>HGGYGR</u> SY
26C12	EVQLVQSGAEVKKPESGLKISCKGSGYFT	<u>SYWIG</u> WVRQMPGKGLIEWG	<u>IIIPGSD</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR	<u>HGHG</u> SS
2H11	EVQLVQSGAEVKKPESGLKISCKGSGYFT	<u>TYWIG</u> WVRQMPGKGLIEWG	<u>IIYPGSD</u> TRISPSFQ	QVTTISADKSI	TAYLQWSSLKASD	TAIYYCAR	<u>DTGYD</u>
18H9	QVQLVESGGGVVQPGRSRLRLSCAASGFTFS	<u>SYGMH</u> WVRQAPGKGLIEWA	<u>VIWYDGS</u> NEYADSVK	GRFTISRDN	SKNTLYLQWSSLRAED	TAIYYCAR	<u>PGSD</u> Y

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

9D6

GAGGTGCAGTTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCCATCCTGGTGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACTGCCATATATTACTGTACGAGACAGGGT
AGAAGCTTCTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

2C3

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTATCCTGGTGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCAGCGCCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACAACAA
GTGGCTGGTATGTTGGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

14C9

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTATTTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGGCTGGAGTGGGTGACAGT
TATATGGTATGATGGAAGTAATGAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGAGGA
CTTCGACTCCCACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

8B12

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGGCTGGAGTGGGTGGCAG
TTATATGGTATGATGGAAGTAATGAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
CAAGAACACGCTGTATCTACAAATGCACAGCCTGAGAGCCGAGGACACGGCTGTGTATTATTGTGCGAGAGAAGA
ATGGTTCGGGGAGGCGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 29B

16A4

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCAGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAG
TTATATGGTATGATGGAAGTAATGAATATTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTC
CAAGAACACGCTGTTTCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGATGA
TTGGTTCGGGGAGGCGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

16E1

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAACTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGACAGT
TATATGGAATGATGGAAGTAATGAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTTTCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGAAGAT
TGGCTCGGGGAGGCGGACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

13A1

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAG
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
TATATGGAATGATGGAAGTATTAAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGACGG
GGAGCAGTGGCGGGGCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

10H7

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTAGCTATGACATACTGGGTCCGTGAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAAGTATTAAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGATCAG
GAGCAGTGGCTGGCCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

15A10

CAGGTGCAGTTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTACCTATGGCATGCACTGGGTCCGCCAGGCTCCAGACATGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAAGTAATAAATACTATGCAGACTCTGTGAAGGGCCGATTACCATCTCCAGAGACATTTCC
AAGAACACGCTGTATCTGGAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGACAA
CTGGGGATCCGATGCTTTTGATATCTGGGGCCAAGGGACAATGGTCACCGTCTCTTCA

12D2

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTACCTATGCCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATATGGTATGATGGAATTAATAAATACTATGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGGGAG
TACTATGATAGTAGTGTTATTACTACGGGGAGGACTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCC
TCA

FIG. 29E

9B10

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTCACCTTCAGTAGCTATGCCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGT
TATCTGGTATGATGGAATTAATAAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGGGAG
TACTATGATAGTAGTGGTTACTTTCGGGGAGGACTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCC
TCA

17D3

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTCAAGCCTGGAGGGTCCCTGAGACTCTCCTGTGCAGCCTCT
GGATTCACCTTCAGTGACTACTACATGAGCTGGATCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTTTCATAC
ATTAGTAGTAGTGGTAGTATCATTTTTTACGCAGACTCTGTGAAGGGCCGATTCACCATGTCCAGGGACAACGCCA
AGAACTCACTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCCGTGTATTATTGTGTGAGAAGGATTA
GTATAACCCCTTTTACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

15G11

CAGGTACACCTTGAAGGAGTCTGGTCCTGTGCTGGTGAAACCCACAGAGACCCTCACGCTGACCTGCACCGTCTCTG
GGTTCTCACTCAGCAATGCTAGAATGGGTGTGAGCTGGATCCGTACCCCCAGGGAAGGCCCTGGAGTGGCTTG
CACACATTTTTTCGAATGACGAAAAATCCTACAGCACATCTCTGAAGAGCAGGCTCACCATCTCCAAGGACACCTCC
AAAAGCCAGGTGGTCCTTACCATGACCAACATGGACCCTGTGGACACAGCCACATATTACTGTGTACGGATACCGA
GATGGCTACAACCCCCCTACTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

14D7

CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTCACAGACCCTGTCCCTCACCTGCACTGTCTCT
GGTGGCTCCATCAGCAGTGGTGGTTACTACTGGAAGTGGATCCGCCAGCACCCAGGGAAGGGCCTGGAGTGGAT
TGGGTACATCTATTACAGTGGGAACACCCACTACAACCCGTCCCTCAAGAGTCGAGTTACCATATCAGTAGACACG
TCTAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGATTGCCGCGGACACGGCCGTGTATTACTGTGCGAGAGACT
GGGGACGTGATGCTTTTGATATCTGGGGCCAAGGGACAATGGTCACCGTCTCTTCA

FIG. 29F

18F3

CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTCACAGACCCTGTCCCTCACCTGCACTGTCTCG
GGTGGCTCCATCAGCAGTGGTGGTTACTACTGGAGCTGGATCCGCCAGCACCCAGGGAAGGGCCTGGAGTGGAT
TGGGTACATCTATTATAGTGGGAGCACCGACTACAACCCGTCCCTCAAGAGTCGAGGTATCATATCAGGAGACAC
GTCTAAGAACCAGTTCTCCCTGAAGCTGAACTCTGTGACTGCCGCGGACACGGCCGTGTATTACTGTGCGAGAGA
GGGGAGGTTGGGGAGTTAGGCTCCTACTACTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

17D9

CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTCGGAGACCCTGTCCCTCACCTGCACTGTCTCT
GGTGGCTCCGTCAGCAGTGGTGGTTACTACTGGAGCTGGATCCGGCAGCCCCCAGGGAAGGGACTGGAGTGGAT
TGGGAATACCTATTACAGTGGGAGCACCAACTACAAACCCCTCCCTCAAGAGTCGAGTCACCATATCAGTAGACACG
TCCAAGAACCAGTTCTCCCTGAAGCTGAGTTCTGTGACCGCTGCGGACACGGCCGTGTATTACTGTGGGAGAGAC
CGGGGTAGAGCAGTGGGTCCCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

21F8

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTCACCAATTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAACAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAAGTA
GGCAGTGGCTGGTACTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

22B9

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTCACCAATTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAACAGTGGTAACACAGGCTATGTACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAAGTA
GGCAGTGGCTGGTACTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

FIG. 29G

21D10

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACAGGTTACACAGTTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGAT
GGATGAACCCAAACAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACC
TCCATAAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAAGT
AGGCAGTGGCTGGTACTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

14A6

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTCACCACTTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAACAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAGCACAGCCTACATGGAGCTGAGCAGCCTAAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAGGCC
GGCAGTGGCTGGGCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

11D6

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTC
TGGATACACCTTCACCAATTATGATATCAACTGGGTGCGACAGGCCACTGGACAAGGGCTTGAGTGGATGGGATG
GATGAACCCTAATAGTGGTAACACAGGCTATGCACAGAAGTTCCAGGGCAGAGTCACCATGACCAGGAACACCTC
CATAAACACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAGGCC
GGCAGTGGCTGGGCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

10A9

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGCTTTACCAGCCAGTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTTTCTGGTGA CTCTGATACCAGATACAGCCCGTCTTCCAAGGCCAGGTACCATCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGCGACAGGGT
AGAAGTTACCACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 29H

16E3

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACGGCTTTACCAACTACTGGATCGGCTGGGTGCGCCAGATGCCCGGAAAGGCCTGGAGTGGATGGGGA
CCATCTATCCTGGTGA CTCTGATACCAGATACAGTCCGTCCTTCCAAGGCCAGGTCACCTTCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACAGGGT
AGAAGTTACTACTACTTCGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

14G7

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGCTTTACCGACTACTGGATCGGCTGGGTGCGCCAGATGCCCGGAAAGGCCTGGAATGGATGGGGA
TCATCTATCCTTATGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCCTCTCAGCCGACAAGTCC
ATCAGCACCGCCTACCTGCGGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACATCGG
GGGGGGAGGTCTACTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

5H3

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGCTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGAAAGGCCTAGAATGGATGGGGA
TCATCTATCCTGGTGA CTCTGATACCACATACAGCCCGTCCTTCCAAGGCCAAGTCACCATCTCAGCCGACAAGTCC
ATCAACACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGAGAGGGT
TTCGGGGAGTCTATTCACTACGGTTTGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

2B12

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAATTTTACCAACTACTGGATCGGCTGGGTGCGCCAGATGTCCGGGAAAGGCCTGGAGTGGATGGGAA
TCATCTATCCTGGTGA CTCTGAAACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTC
CATCAGCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACATGG
AGGGGGATGGAGTGGTTGGGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 29I

26H7

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAACTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTATCCTGGTGACTCTGATACCAAATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCAGTACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACATGGT
GGATATAGTGGCCGTTCTACTACTACGGTATGGACGTCTGGGGCCAGGGGACCGCGGTACCGTCTCCTCA

26C12

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAGGTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTTTCTGGTGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCC
ATCACCACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATCTATTACTGTGCGGACATGGG
CATGGCAGCTCGTCCGGGCGGACCTACTACTACGGTTTGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCC
TCA

2H11

GAGGTGCAGCTGGTGCAATCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCTCTGAAGATCTCCTGTAAGGGTTC
TGGATACAACCTTACCACCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGA
TCATCTATCCTGGTGACTCTGATACCAGATACAGCCCGTCCTTCCAAGGCCAGGTCACCATTTACAGCCGACAAGTCC
ATCAACACCGCCTACCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACAGCCATTTATTACTGTGCGAGAGACACA
GGATACTTTGACTACTGGGGCCAGGGCACCTGGTCACCGTCTCCTCA

18H9

CAGGTGCAGTTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCGTC
TGGATTACCTTCAGTAGCTATGGCATGCACTGGGTCCGCCAGGCTCCAGGCAAGGGCCTGGAGTGGGTGGCAGT
TATCTGGTATGATGGAAGTAATAAATTCTATGTAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGACAATTCC
AAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGACCCGG
GTCCGATTACTACTTCTACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCA

FIG. 30

