FIG. 1

GATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAG
GAGACAGAGTCACCATCACTTGCAGTGCATCCCAGGGC
ATTAGCAATTATCTGAATTGGTATCAGCAGAAACCAGGG
AAAGTTCCTAAACTCCTGATCTATTACACATCAAGTTTAC
ACTCAGGGGTCCCATCTCGGTTCAGCGGCAGTGGATCT
GGGACAGATTTCACTCTCACCATCAGCAGCCTGCAGCC
TGAAGATGTTGCAACTTATTACTGTCAGCAGTATAGCAA
GCTGCCGTACACGTTTGGCCAGGGGACCAAGCTGGAG
ATCAAA (SEQ ID NO:1)

DIQMTQSPSSLSASVGDRVTITCSASQGISNYLNWYQQKP
GKVPKLLIYYTSSLHSGVPSRFSGSGSGTDFTLTISSLQPE
DVATYYCQQYSKLPYTFGQGTKLEIK (SEQ ID NO:2)

FIG. 2

GAGGTGCAGCTGGTCGAGAGCGGAGCCGAGGT
GAAGAAGCCAGGCGCCAGCGTCAAGGTGTCCTG
CAAGGCCAGCGGCTACAGCTTCTCCGGCTACAC
CATGAACTGGGTGCGGCAGGCCCCAGGCCAGAG
GCTGGAATGGATGGGCCTGATCAACCCCTACAAC
GGCGGCACCAGCTACAACCAGAACTTCAAGGGC
AGGGTGACACTGACCGTGGATACCAGCGCCAGC
ACCGCCTACCTGGAACTGAACAGCCTGAGAAGC
GAGGACACCGGCGTGTACTACTGCGCCAGAGAG
GACTACGACGGCTACCTGTACTTCGCCATGGACT
ACTGGGGCCAGGGCACCCTGGTGACCGTGAGC
(SEQ ID NO:3)

EVQLVESGAEVKKPGASVKVSCKASGYSFSGYTM
NWVRQAPGQRLEWMGLINPYNGGTSYNQNFKGR
VTLTVDTSASTAYLELNSLRSEDTGVYYCAREDYDG
YLYFAMDYWGQGTLVTVS (SEQ ID NO:4)

FIG. 3

	L1	L2	L3	H1	H2	H3	KD (pM) Biacore For 7200 sec diss	Receptor Inhibition IC50, pM	Cellular Inhibition
huDP301	SASQGISNYLNQQYSKLPYTF	EDYDGYLYFAMDY						Panel A/ B	fold change
I25M6	----------L-AF--------	----------------					53	12	4
I25M10	----------L-AF--------	---F-SWTF-------					36	14	5
I25M11	----A-SF----SF--------	---F-SWTF-------					57	14	5
I25M20	----------L-AF--------	---Y-SWTF-------					45	13	20
I25M32	----N-E-----I-NF--------	---Y-SWTF-------					87	11	4
I25M28	----------L-AF--------	---F-SWTY-------					19	14	16
I25M30	----H-WN----F-NSF--------	---F-SWTY-------					44	20	3
I25M31	----------------------	---F-SWTY-------					40	18	12
I25M34	----N-E-----I-NF--------	---F-SWTY-------					64	13	7
IL-17BR	----------------------	----------------					17	63	1
R71V G1							194	45.2-64.3	
R71V G1							136		

FIG. 4A

M6 Light Chain (LC) Amino Acid Sequence

DIQMTQSPSSLSASVGDRVTITCSASQGISNYLNWYQQKP
GKVPKLLIYYTSSLHSGVPSRFSGSGSGTDFTLTISSLQPE
DVATYYCQQYLAFPYTFGQGTKLEIKRTVAAPSVFIFPPSD
EQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQE
SVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGL
SSPVTKSFNRGEC (SEQ ID NO:5)

LC CDR 1: SASQGISNYLN (SEQ ID NO:6)

LC CDR 2: YTSSLHS (SEQ ID NO:7)

LC CDR 3: QQYLAFPYT (SEQ ID NO:8)

FIG. 4B

M6 Heavy Chain (HC) Amino Acid Sequence

EVQLVESGAEVKKPGASVKVSCKASGYSFSGYTMNWVRQ
APGQRLEWMGLINPYNGGTSYNQNFKGRVTLTVDTSASTA
YLELNSLRSEDTGVYYCAREDYDGYLYFAMDYWGQGTLVT
VSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT
VSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGT
QTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELL
GGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFN
WYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN
GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRD
ELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYT
QKSLSLSPGK (SEQ ID NO:9)

HC CDR 1: GYTMN (SEQ ID NO:10)

HC CDR 2: LINPYNGGTSYNQNFKG (SEQ ID NO:11)

HC CDR 3: EDYDGYLYFAMDY (SEQ ID NO:12)

FIG. 5

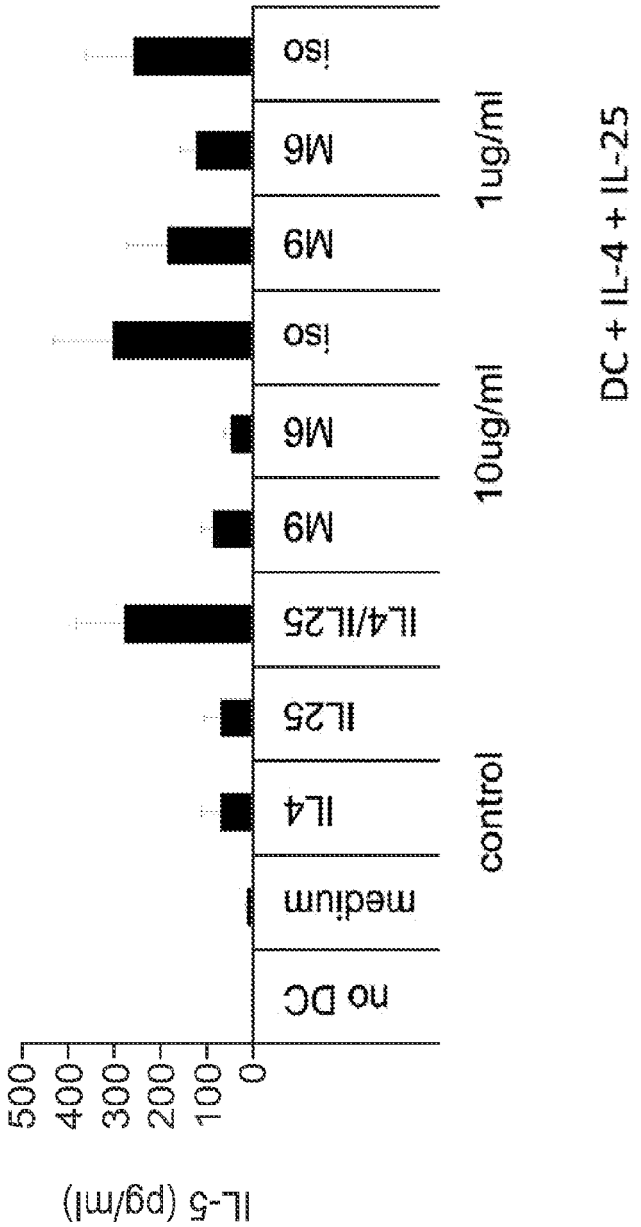
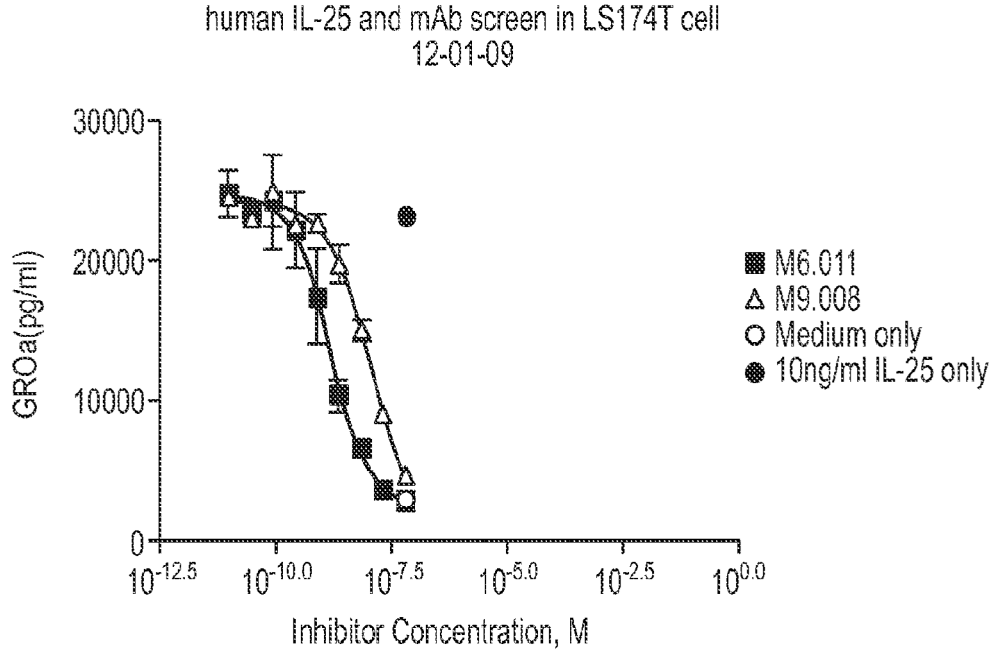
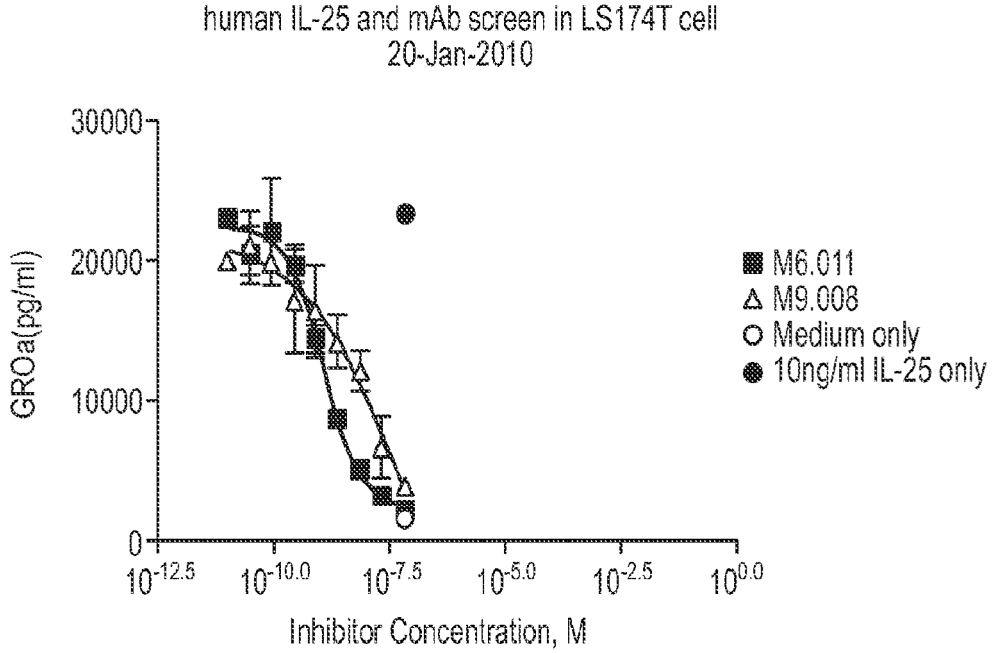

IL-5 (pg/ml)
500
400
300
200
100
0
no DC
medium
IL4
IL25
IL4/IL25
M9
M6
iso
M9
M6
iso
control
10ug/ml
1ug/ml
DC + IL-4 + IL-25

FIG. 6A



	M6.011	M9.008
EC50	1.55e-009	1.17e-008

FIG. 6B



	M6.011	M9.008
EC50	1.26e-009	4.57e-008

FIG. 7A

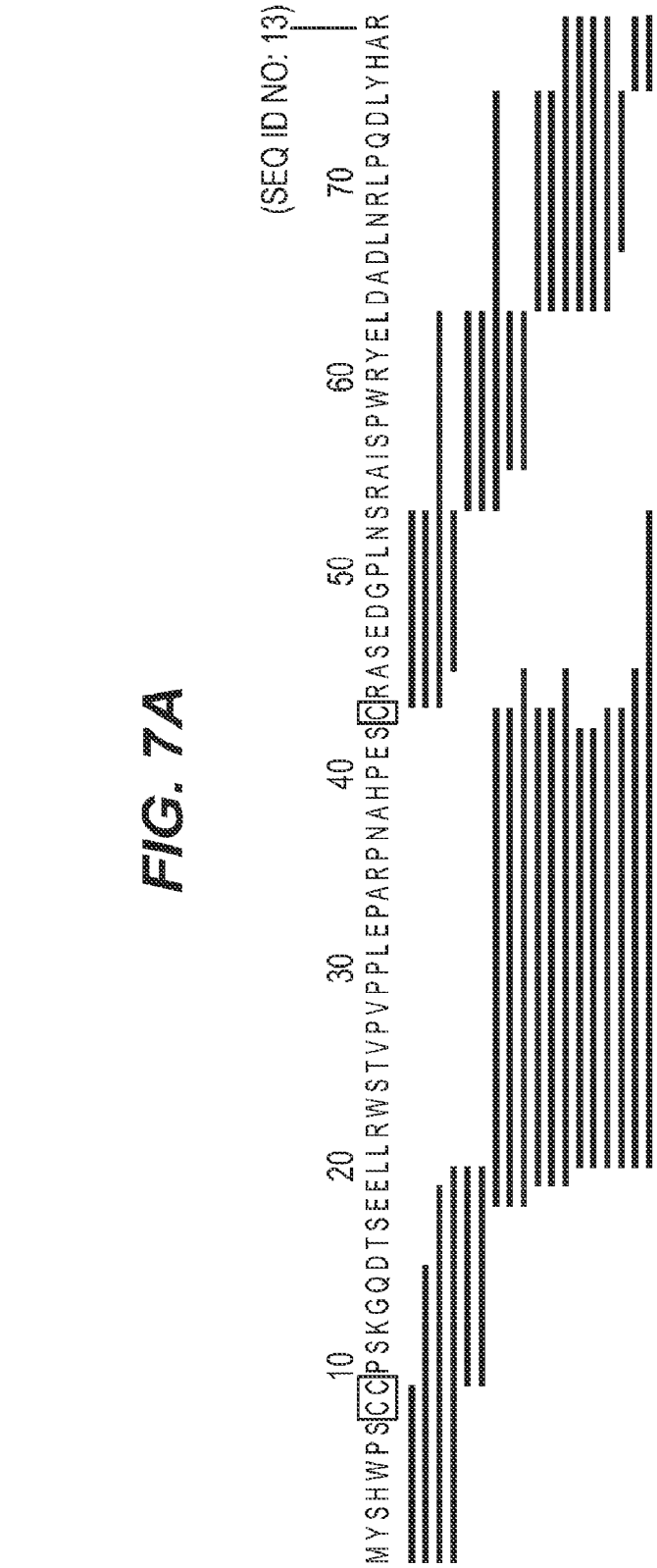

(SEQ ID NO: 13)
10
20
30
40
50
60
70
MYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNAHPESCRASEDGPLNSRAISPWRYELDADLNRLPQDLYHAR

FIG. 7B


(SEQ ID NO: 14)
80
90
100
110
120
130
140
CLCPHCVSLQTGSHHDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRWSLACVCVRPRVMG

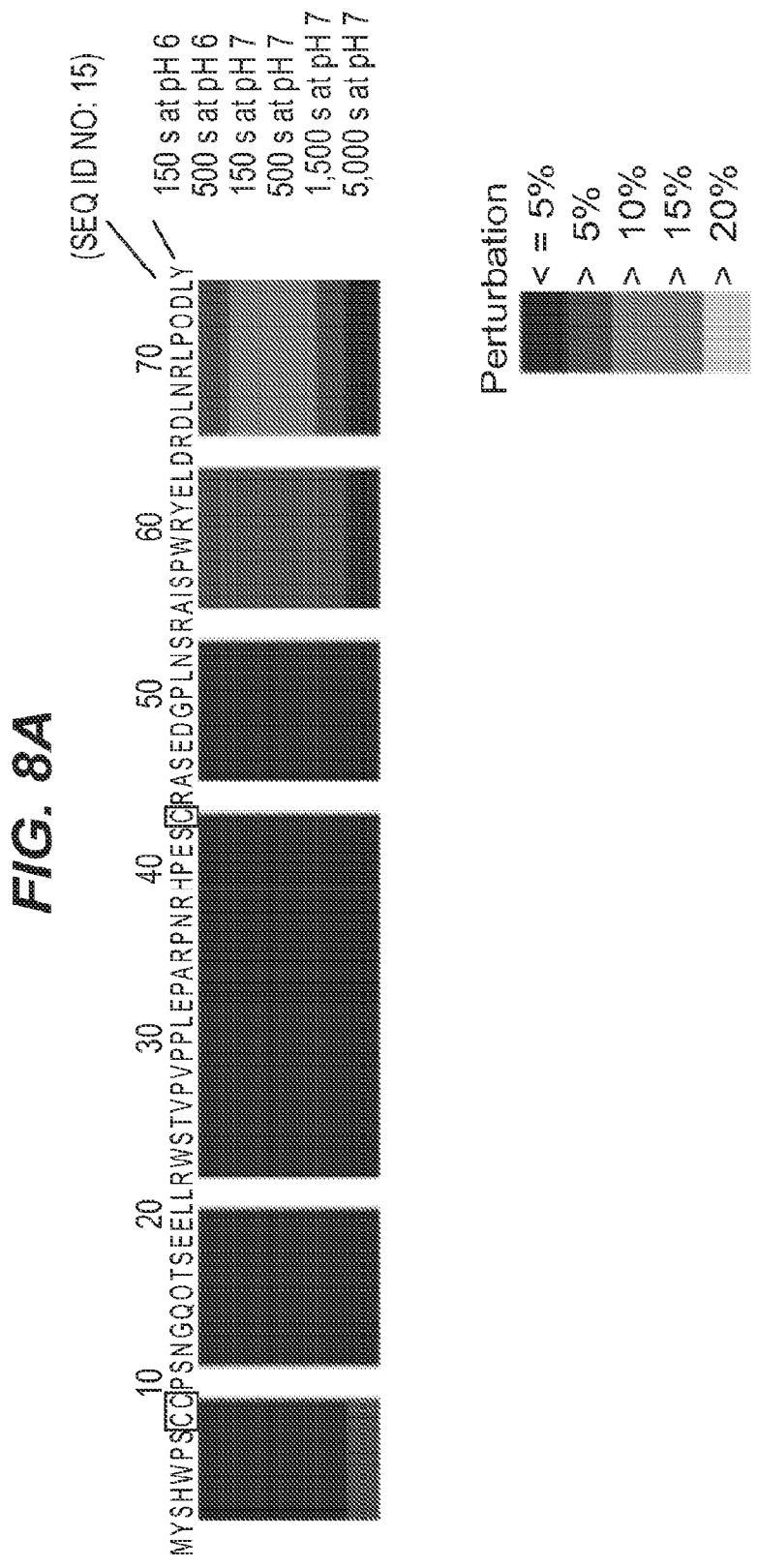

(SEQ ID NO: 15)
MYSHWPSCCPSNGQQTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLY
10
20
30
40
50
60
70
150 s at pH 6
500 s at pH 6
150 s at pH 7
500 s at pH 7
1,500 s at pH 7
5,000 s at pH 7
Perturbation
< = 5%
> 5%
> 10%
> 15%
> 20%

FIG. 8A

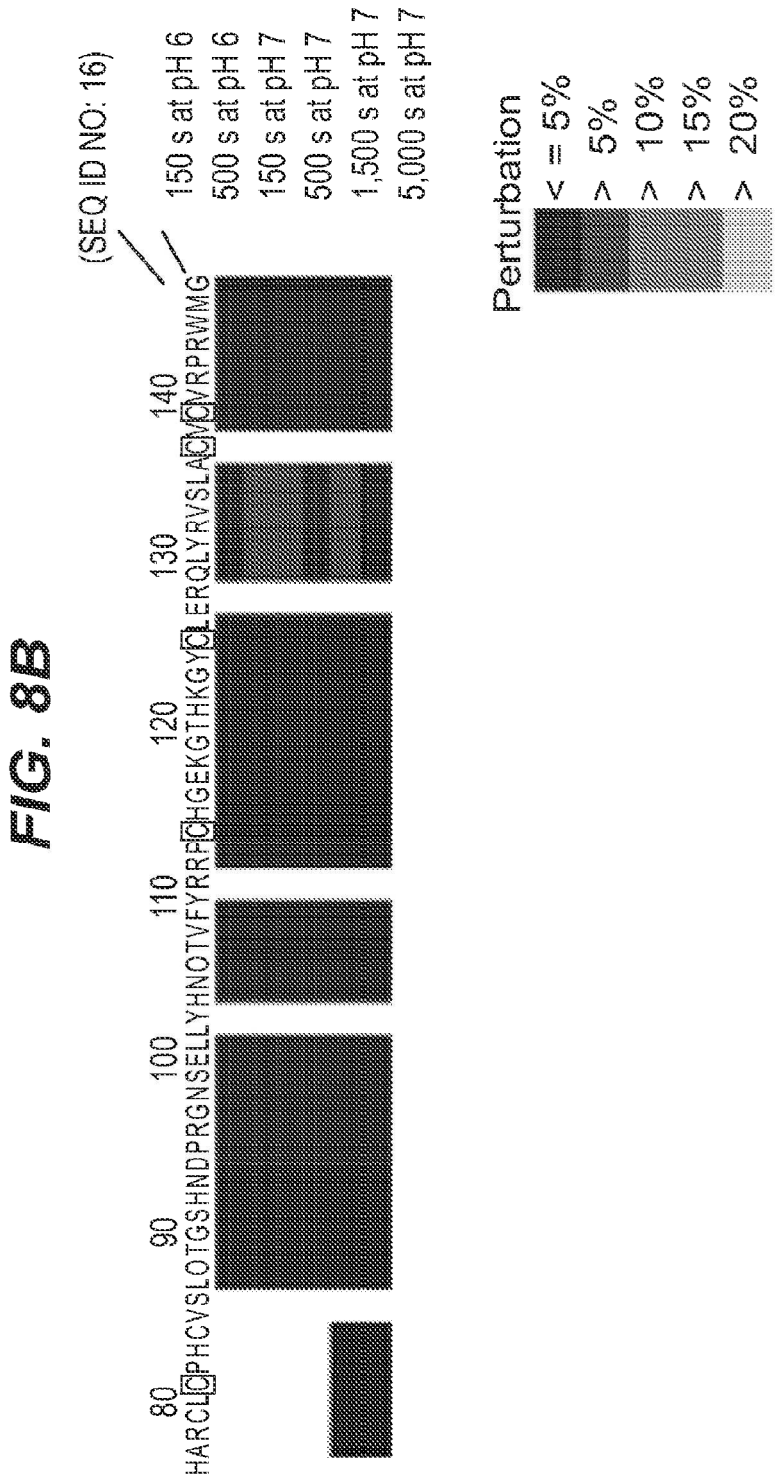

(SEQ ID NO: 16)
150 s at pH 6
500 s at pH 6
150 s at pH 7
500 s at pH 7
1,500 s at pH 7
5,000 s at pH 7
Perturbation
< = 5%
> 5%
> 10%
> 15%
> 20%
80
90
100
110
120
130
140
HARCLCPHCVSLOTGSHNDPRGNSELLYHNOTVFYRRFCHGEKGTHKGYCLERQLYRVSLACMCVRPRWMG

FIG. 8B

FIG. 9A

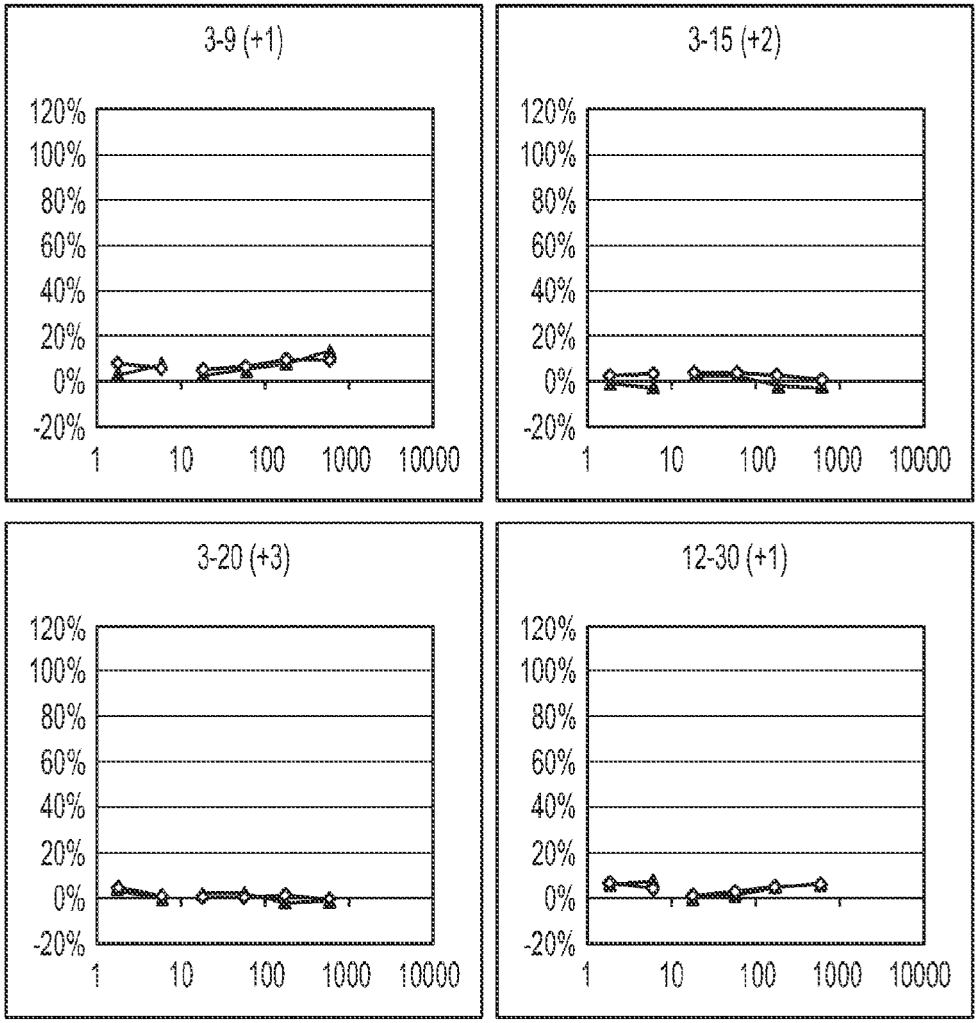


FIG. 9B

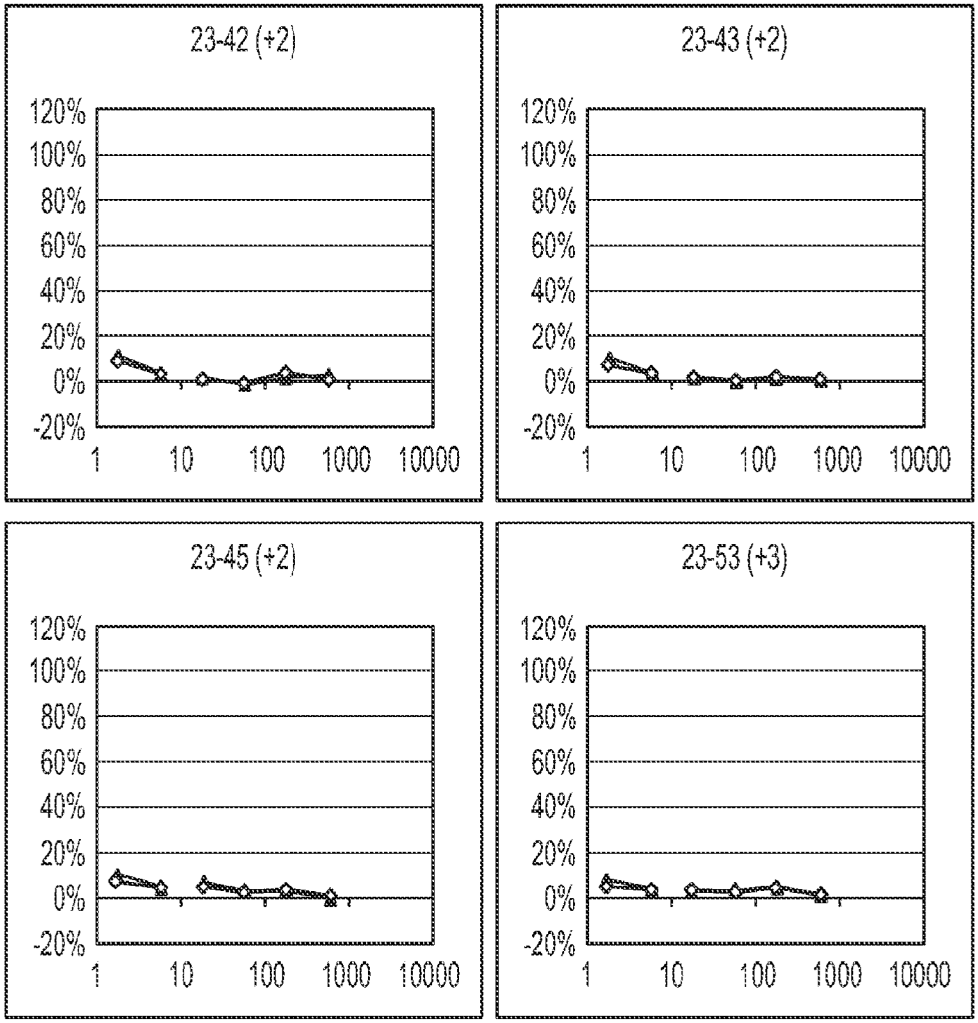

23-42 (+2)
23-43 (+2)
23-45 (+2)
23-53 (+3)
120%
100%
80%
60%
40%
20%
0%
-20%
1
10
100
1000
10000

FIG. 9C

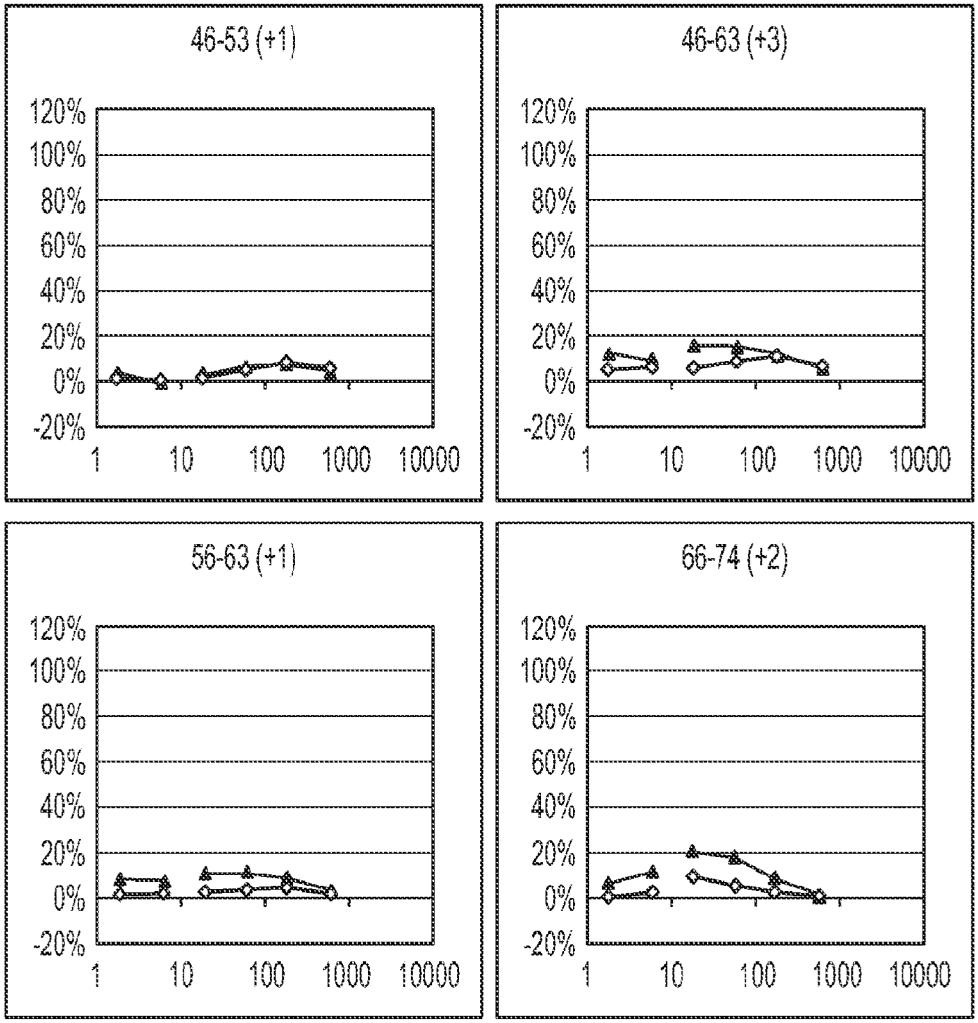

46-53 (+1)
46-63 (+3)
56-63 (+1)
66-74 (+2)
120%
100%
80%
60%
40%
20%
0%
-20%
1
10
100
1000
10000

FIG. 9D

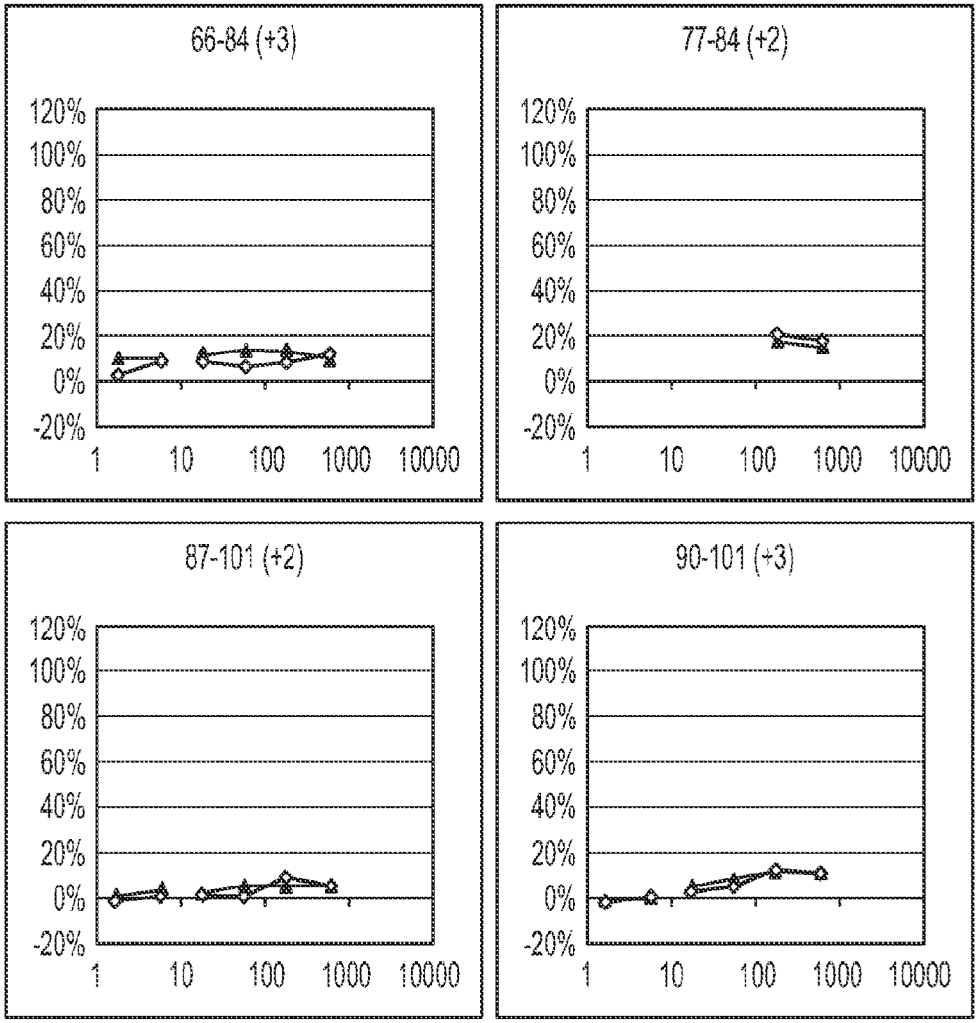

66-84 (+3)
77-84 (+2)
87-101 (+2)
90-101 (+3)
120%
100%
80%
60%
40%
20%
0%
-20%
1
10
100
1000
10000

FIG. 9E

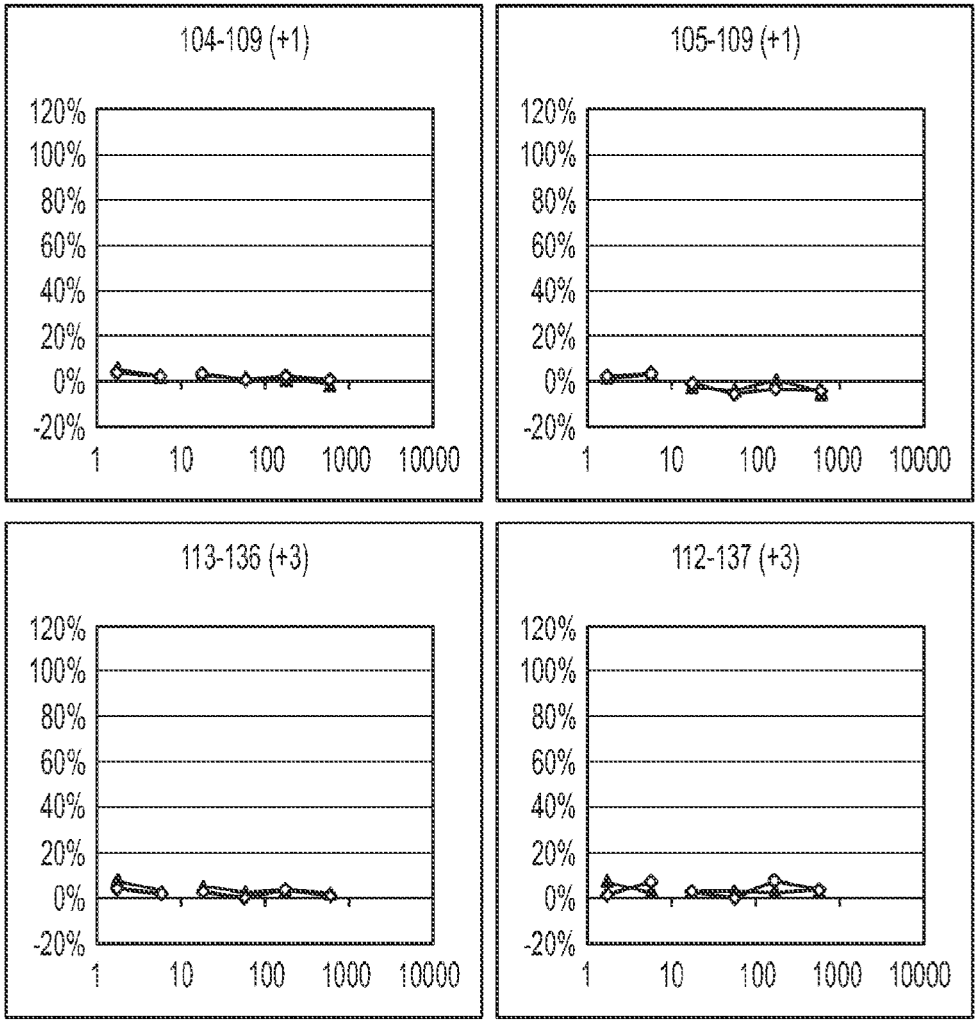

104-109 (+1)
105-109 (+1)
113-136 (+3)
112-137 (+3)
120%
100%
80%
60%
40%
20%
0%
-20%
1
10
100
1000
10000

FIG. 9F

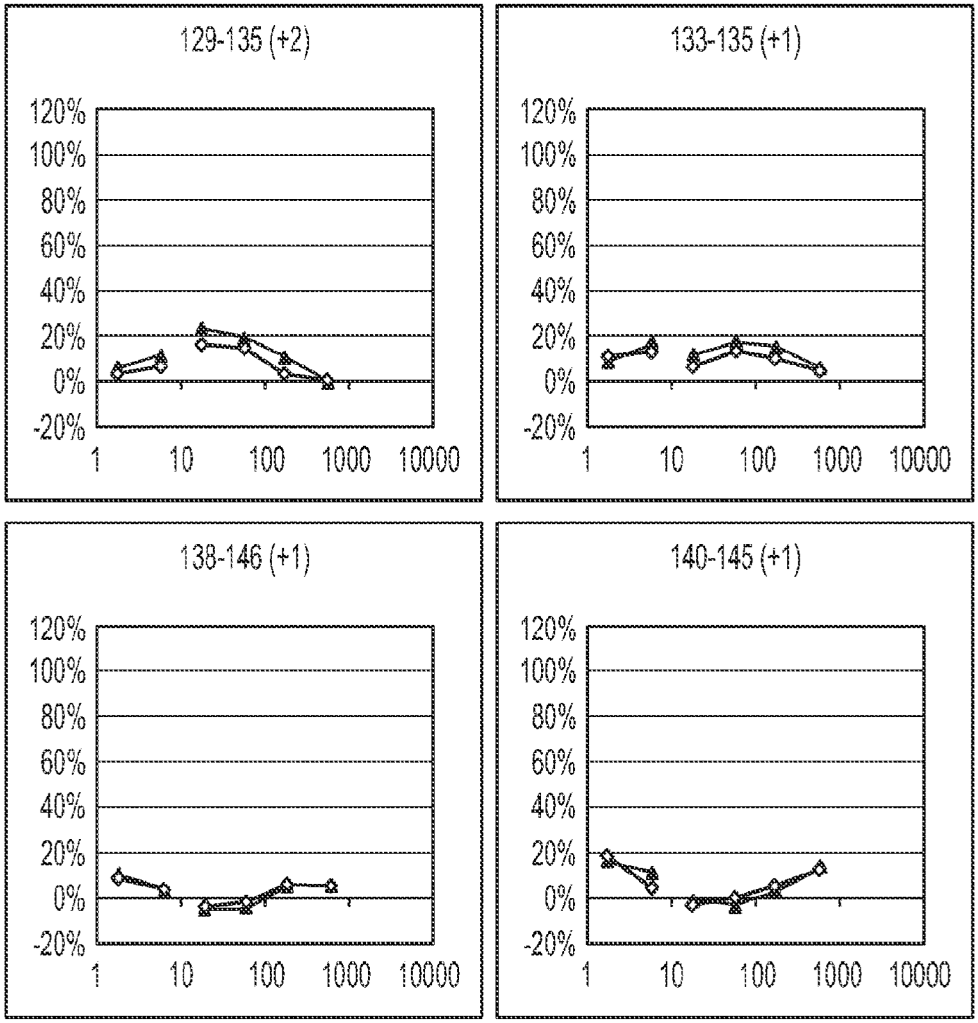

129-135 (+2)
133-135 (+1)
138-146 (+1)
140-145 (+1)
120%
100%
80%
60%
40%
20%
0%
-20%
1
10
100
1000
10000

FIG. 10

MYSHWPSCCPSKGQDTSEELLRWSTVPVPP
LEPARPNRHPESCRASEDGPLNSRAISPWR
YELDRDLNRLPQDLYHARCLCPHCVSLQTG
SHMDPRGNSELLYHNQTVFYRRPCHGEKGT
HKGYCLERRLYRVSLACVCVRPRVMG (SEQ ID
NO:17)