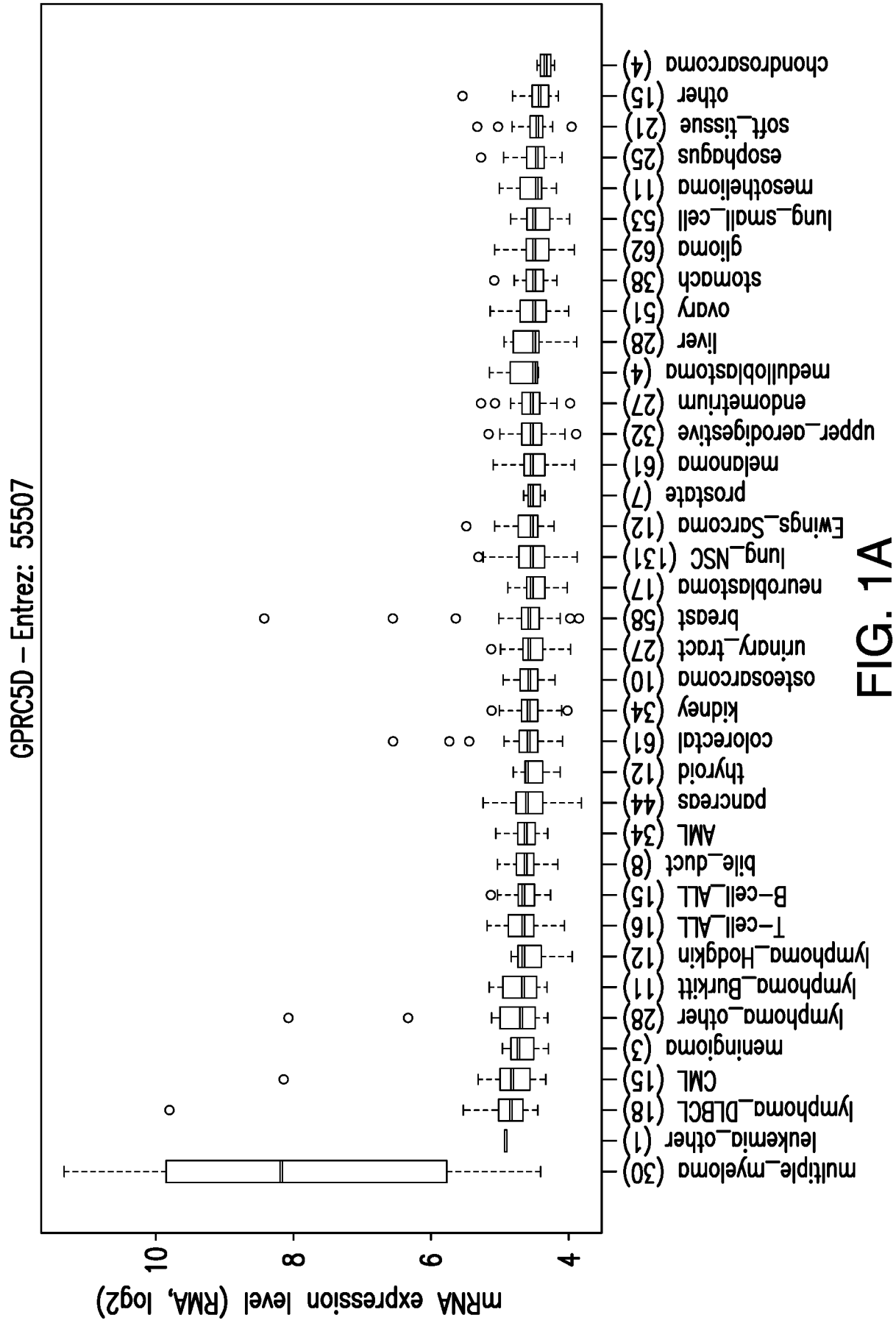

GPRC5D – Entrez: 55507
mRNA expression level (RMA, log2)
4
6
8
10
multiple_myeloma (30)
leukemia_other (1)
lymphoma_DLBCL (18)
CML (15)
meningioma (3)
lymphoma_other (28)
lymphoma_Burkitt (11)
lymphoma_Hodgkin (12)
T–cell_ALL (16)
B–cell_ALL (15)
bile_duct (8)
AML (34)
pancreas (44)
thyroid (12)
colorectal (61)
kidney (34)
osteosarcoma (10)
urinary_tract (27)
breast (58)
neuroblastoma (17)
lung_NSC (131)
Ewings_Sarcoma (12)
prostate (7)
melanoma (61)
upper_aerodigestive (32)
endometrium (27)
medulloblastoma (4)
liver (28)
ovary (51)
stomach (38)
glioma (62)
lung_small_cell (53)
mesothelioma (11)
esophagus (25)
soft_tissue (21)
other (15)
chondrosarcoma (4)

FIG. 1A

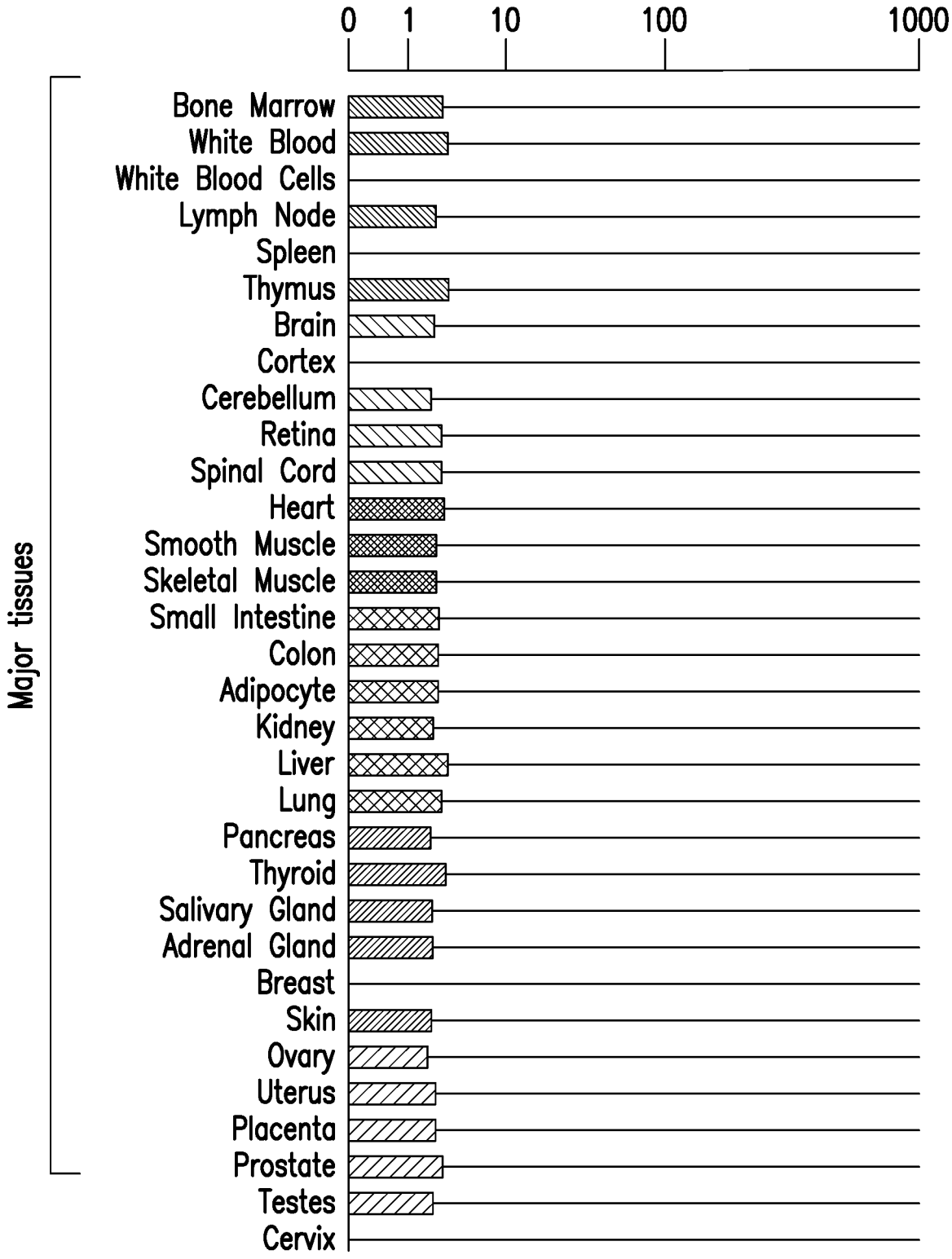

0
1
10
100
1000
Major tissues
Bone Marrow
White Blood
White Blood Cells
Lymph Node
Spleen
Thymus
Brain
Cortex
Cerebellum
Retina
Spinal Cord
Heart
Smooth Muscle
Skeletal Muscle
Small Intestine
Colon
Adipocyte
Kidney
Liver
Lung
Pancreas
Thyroid
Salivary Gland
Adrenal Gland
Breast
Skin
Ovary
Uterus
Placenta
Prostate
Testes
Cervix

FIG. 1B

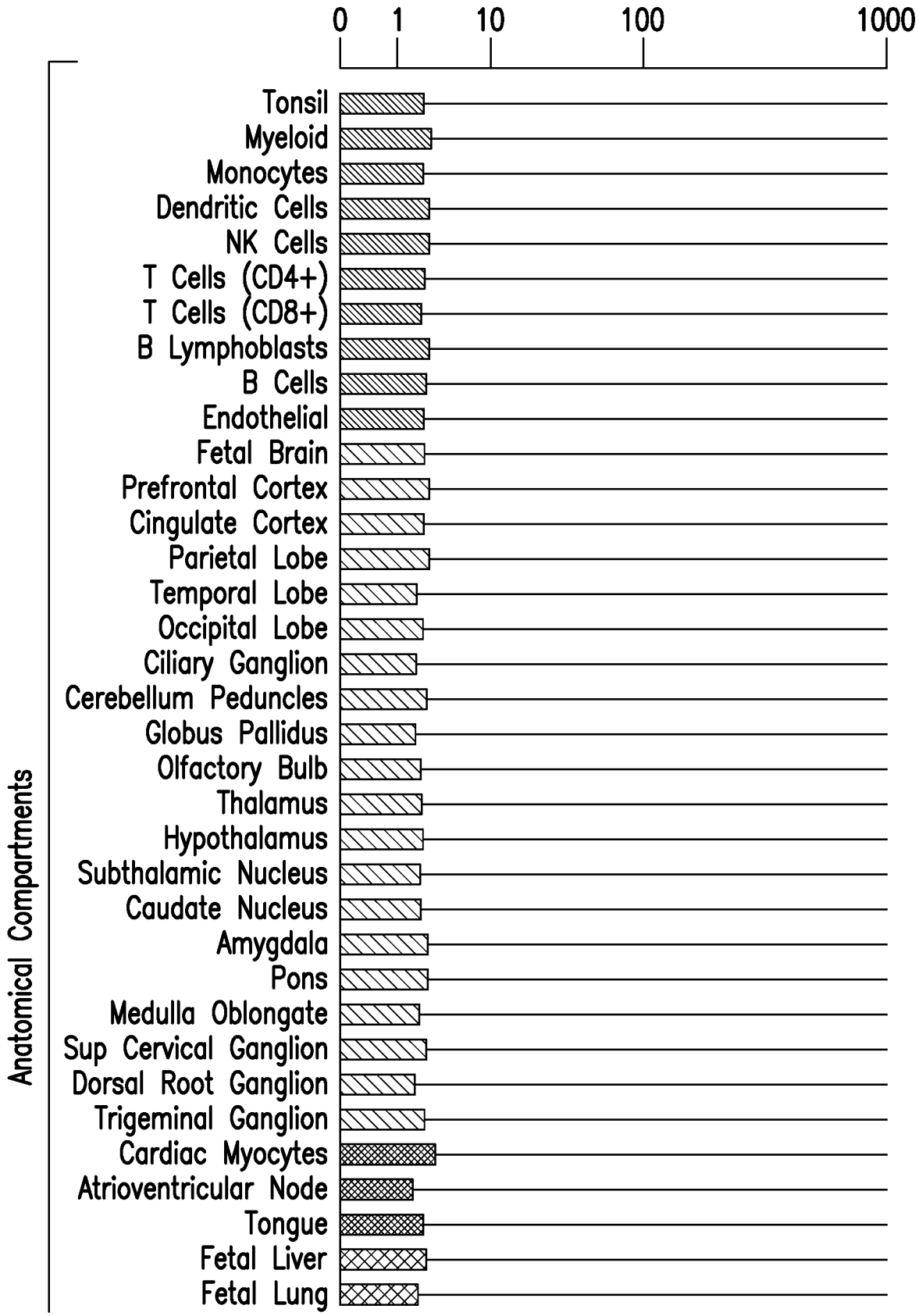

0
1
10
100
1000
Anatomical Compartments
Tonsil
Myeloid
Monocytes
Dendritic Cells
NK Cells
T Cells (CD4+)
T Cells (CD8+)
B Lymphoblasts
B Cells
Endothelial
Fetal Brain
Prefrontal Cortex
Cingulate Cortex
Parietal Lobe
Temporal Lobe
Occipital Lobe
Ciliary Ganglion
Cerebellum Peduncles
Globus Pallidus
Olfactory Bulb
Thalamus
Hypothalamus
Subthalamic Nucleus
Caudate Nucleus
Amygdala
Pons
Medulla Oblongate
Sup Cervical Ganglion
Dorsal Root Ganglion
Trigeminal Ganglion
Cardiac Myocytes
Atrioventricular Node
Tongue
Fetal Liver
Fetal Lung

FIG. 1C

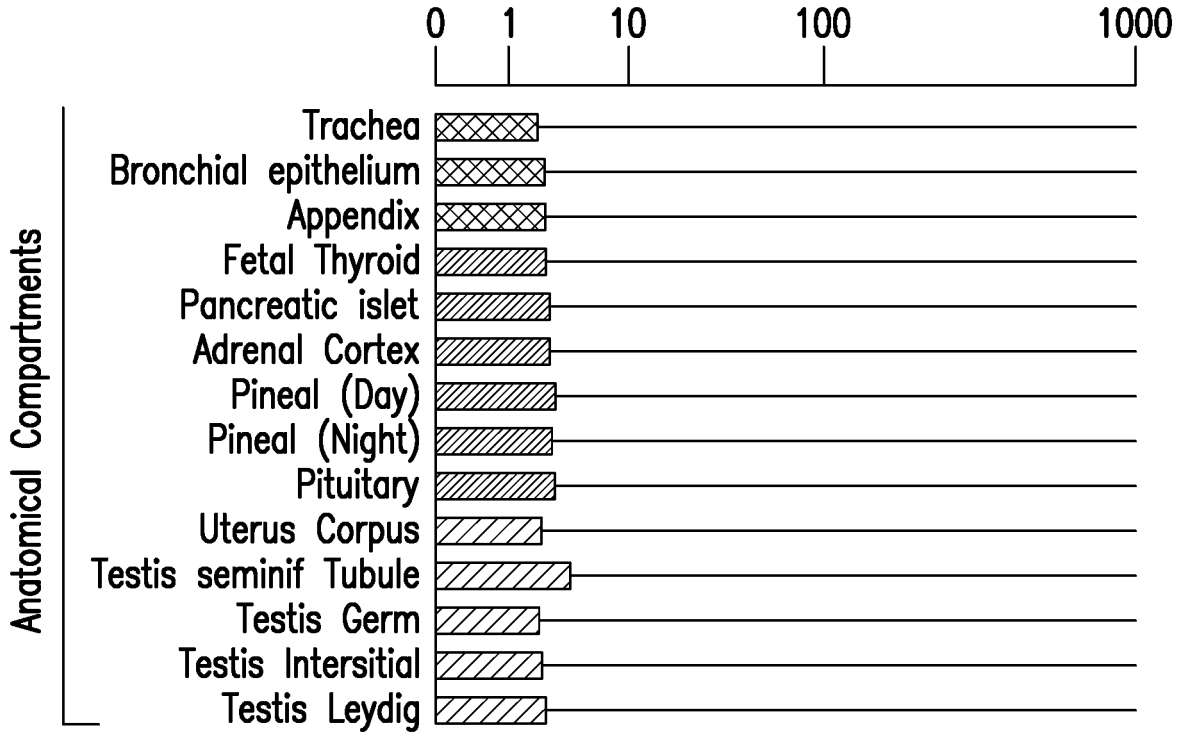

0
1
10
100
1000
Anatomical Compartments
Trachea
Bronchial epithelium
Appendix
Fetal Thyroid
Pancreatic islet
Adrenal Cortex
Pineal (Day)
Pineal (Night)
Pituitary
Uterus Corpus
Testis seminif Tubule
Testis Germ
Testis Intersitial
Testis Leydig

FIG. 1D

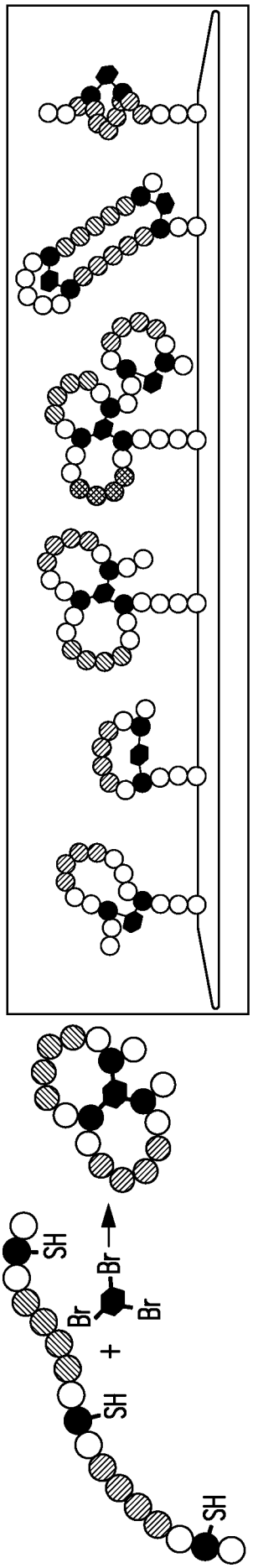


FIG. 2

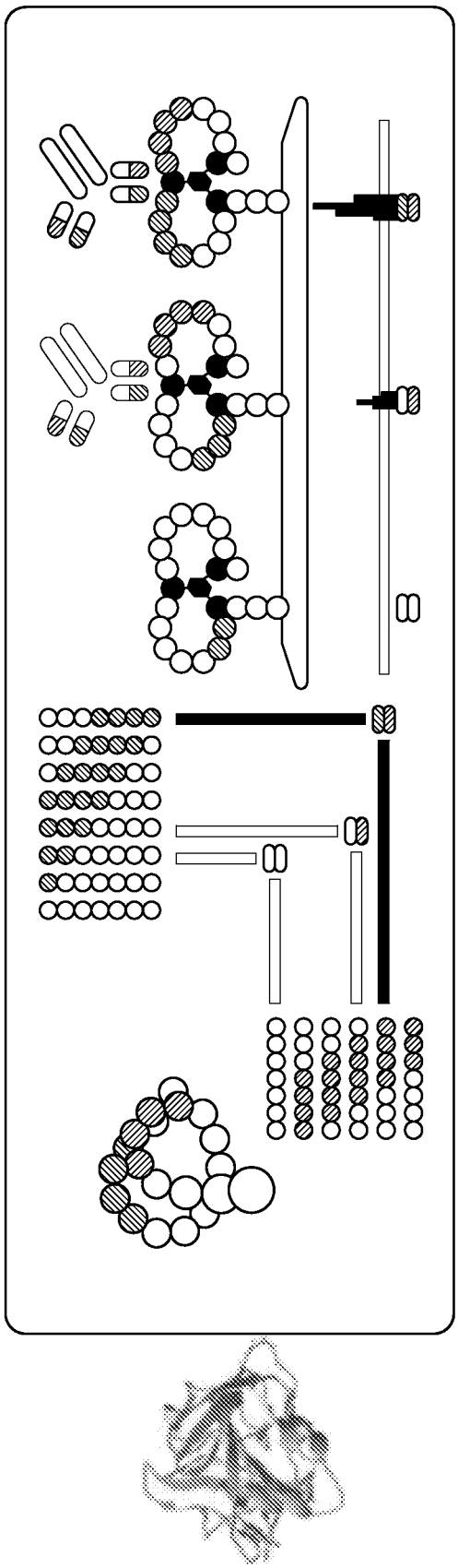


FIG. 3

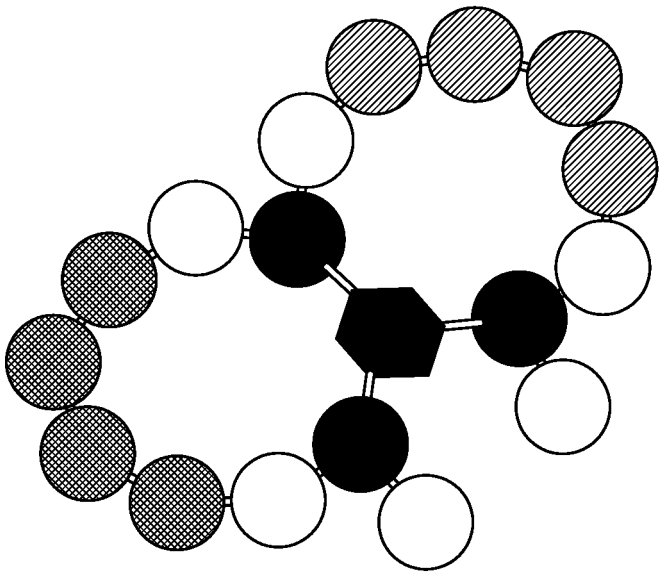


FIG. 4

Loop 1	Loop 2	ELISA
CMDYDFKVKLSSERERC	WAIGCIFAELLTSEPC	−0.01
CMDYDFKVKLSSERERC	CIFAELLTSEPIFHCC	0.79
CMDYDFKVKLSSERERC	ELLTSEPIFHCRQEDC	1.21
CMDYDFKVKLSSERERC	SEPIFHCRQEDIKTSC	0.36
CFKVKLSSERERVEDLC	WAIGCIFAELLTSEPC	0.17
CFKVKLSSERERVEDLC	CIFAELLTSEPIFHCC	1.19
CFKVKLSSERERVEDLC	ELLTSEPIFHCRQEDC	1.24
CFKVKLSSERERVEDLC	SEPIFHCRQEDIKTSC	0.56
CLSSERERVEDLFEYEC	WAIGCIFAELLTSEPC	0.61
CLSSERERVEDLFEYEC	CIFAELLTSEPIFHCC	1.21
CLSSERERVEDLFEYEC	ELLTSEPIFHCRQEDC	1.41
CLSSERERVEDLFEYEC	SEPIFHCRQEDIKTSC	0.58
CRERVEDLFEYEGCKVC	WAIGCIFAELLTSEPC	0.10
CRERVEDLFEYEGCKVC	CIFAELLTSEPIFHCC	0.83
CRERVEDLFEYEGCKVC	ELLTSEPIFHCRQEDC	1.21
CRERVEDLFEYEGCKVC	SEPIFHCRQEDIKTSC	−0.02

FIG. 5A

Loop 1	WAIGCIFAELLTSEP	CIFAELLTSEPIFHC	ELLTSEPIFHCRQED	SEPIFHCRQEDIKTS
MDYDFKVKLSSERER	−0.01	0.79	1.21	0.36
FKVKLSSERERVEDL	0.17	1.19	1.24	0.56
LSSERERVEDLFEYE	0.61	1.21	1.41	0.58
RERVEDLFEYEGCKV	0.10	0.83	1.21	−0.02

Loop 2

FIG. 5B



FIG. 5C

	WAIGCIFAELLTSEP	CIFAELLTSEPIFHC	ELLTSEPIFHCRQED	SEPIFHCRQEDIKTS
MDYDFKVKLSSERER	−0.01	0.79	1.21	0.36
FKVKLSSERERVEDL	0.17	1.19	1.24	0.56
LSSERERVEDLFEYE	0.61	1.21	1.41	0.58
RERVEDLFEYEGCKV	0.10	0.83	1.21	−0.02

FIG. 5D

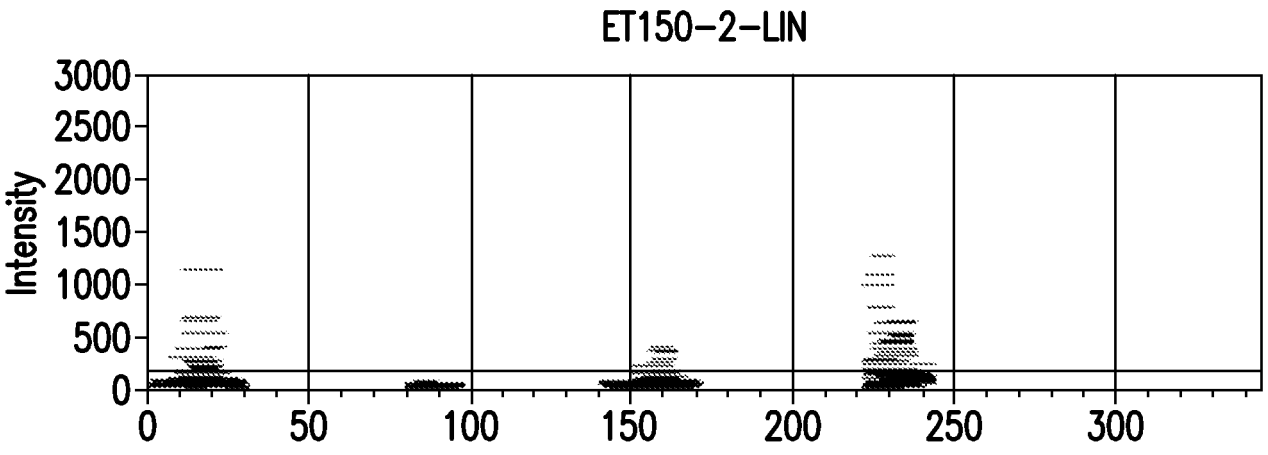
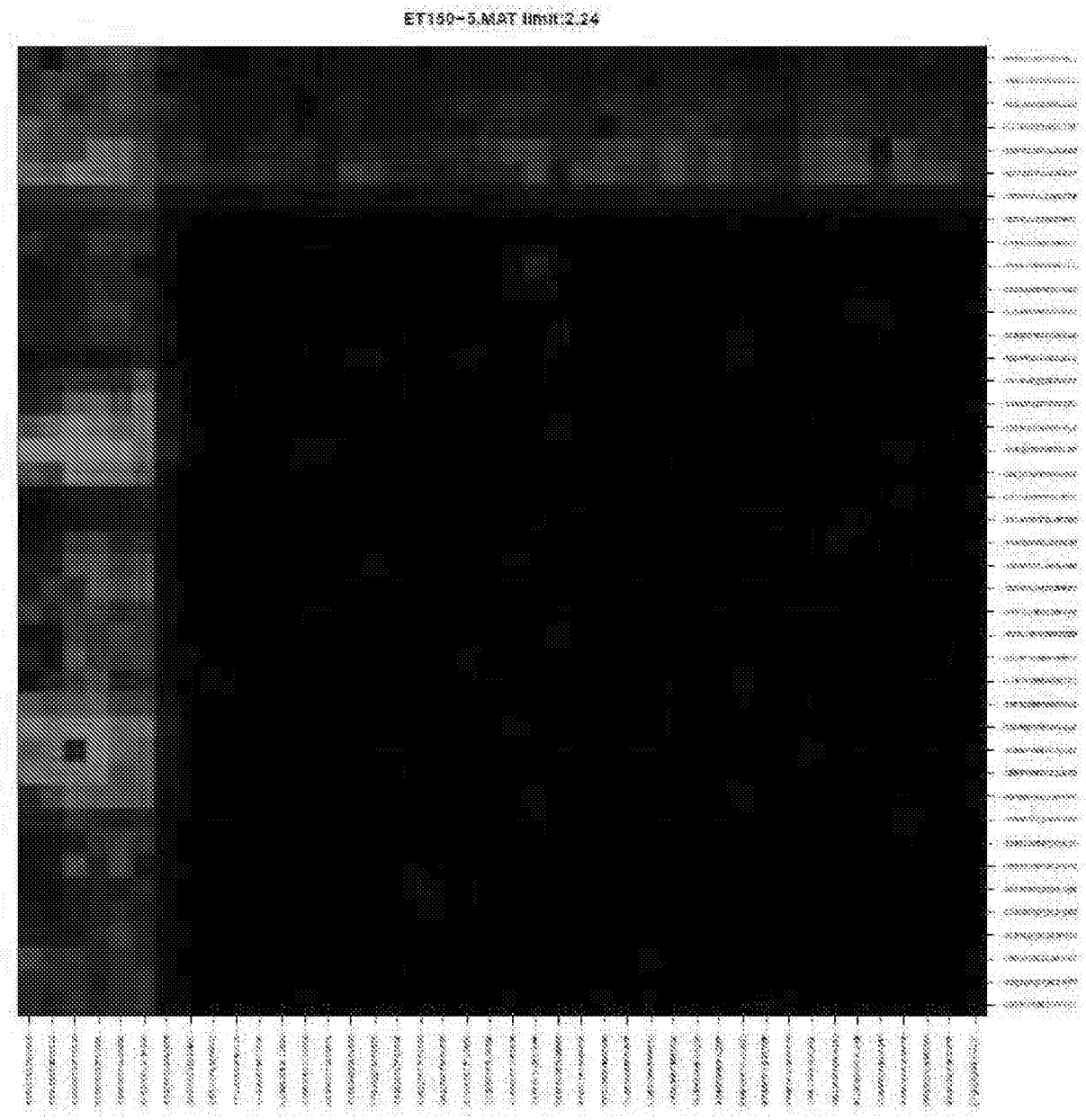

ET150-2-LIN
Intensity
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
250
300

FIG. 6

Figure 7



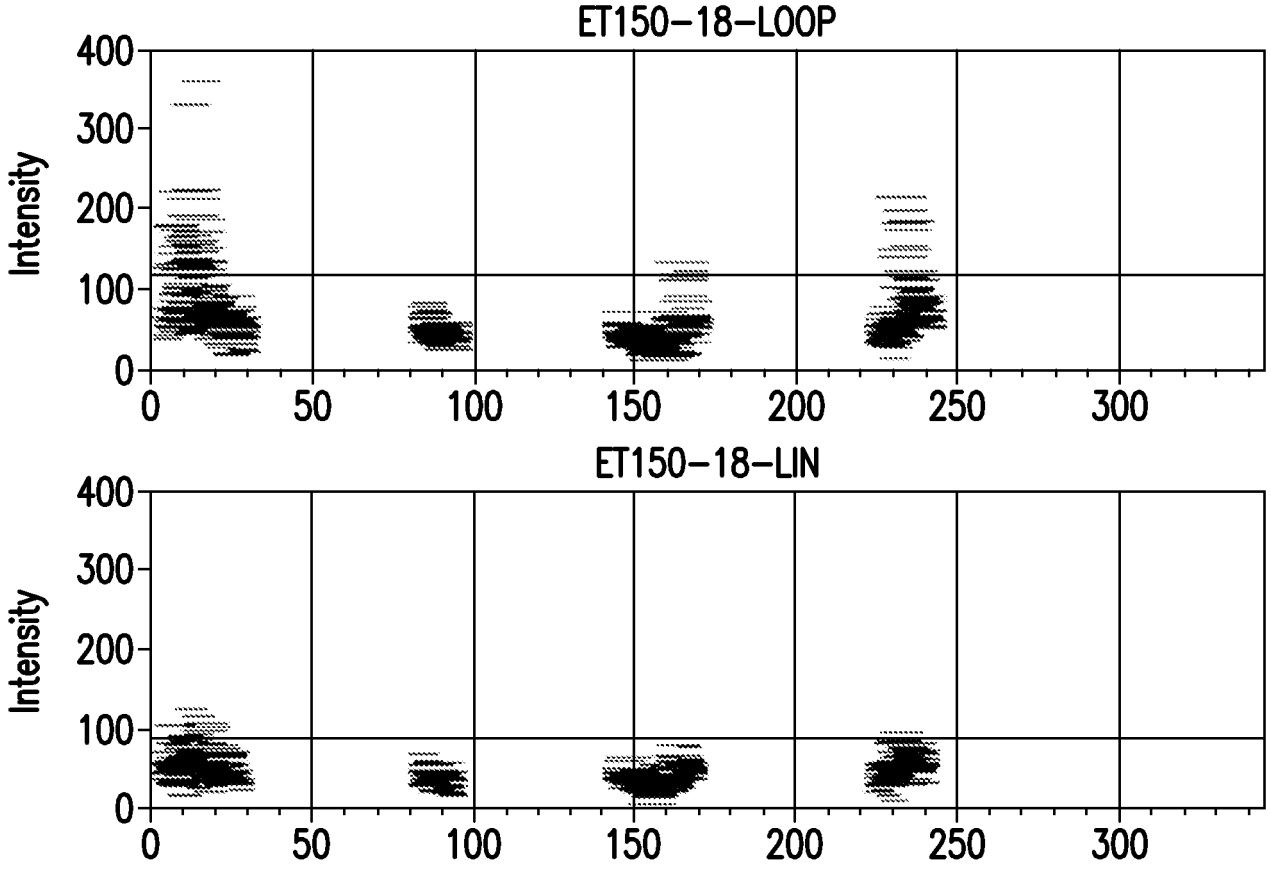

ET150-18-LOOP
Intensity
400
300
200
100
0
0
50
100
150
200
250
300
ET150-18-LIN
Intensity
400
300
200
100
0
0
50
100
150
200
250
300

FIG. 8

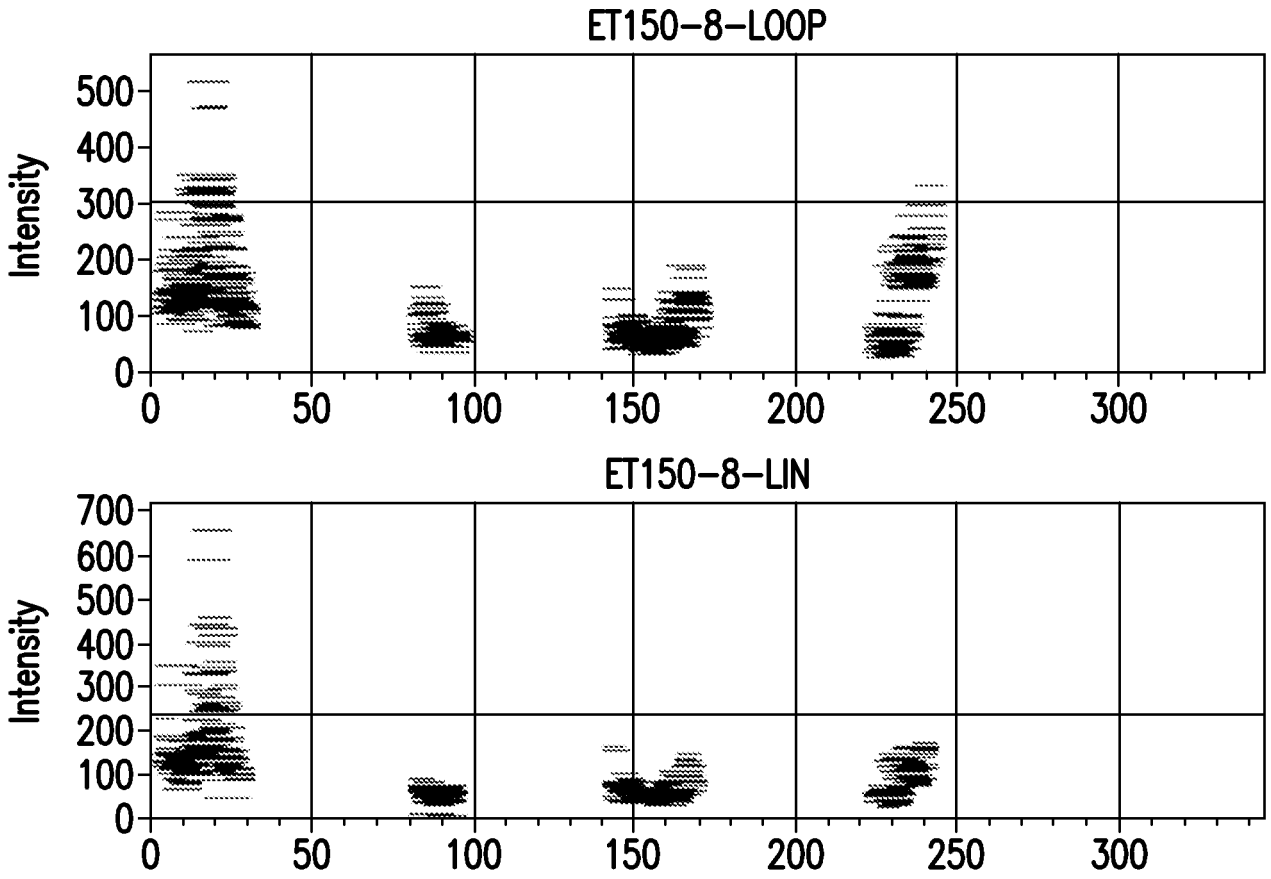

ET150-8-LOOP
Intensity
500
400
300
200
100
0
0
50
100
150
200
250
300
ET150-8-LIN
Intensity
700
600
500
400
300
200
100
0
0
50
100
150
200
250
300

FIG. 9

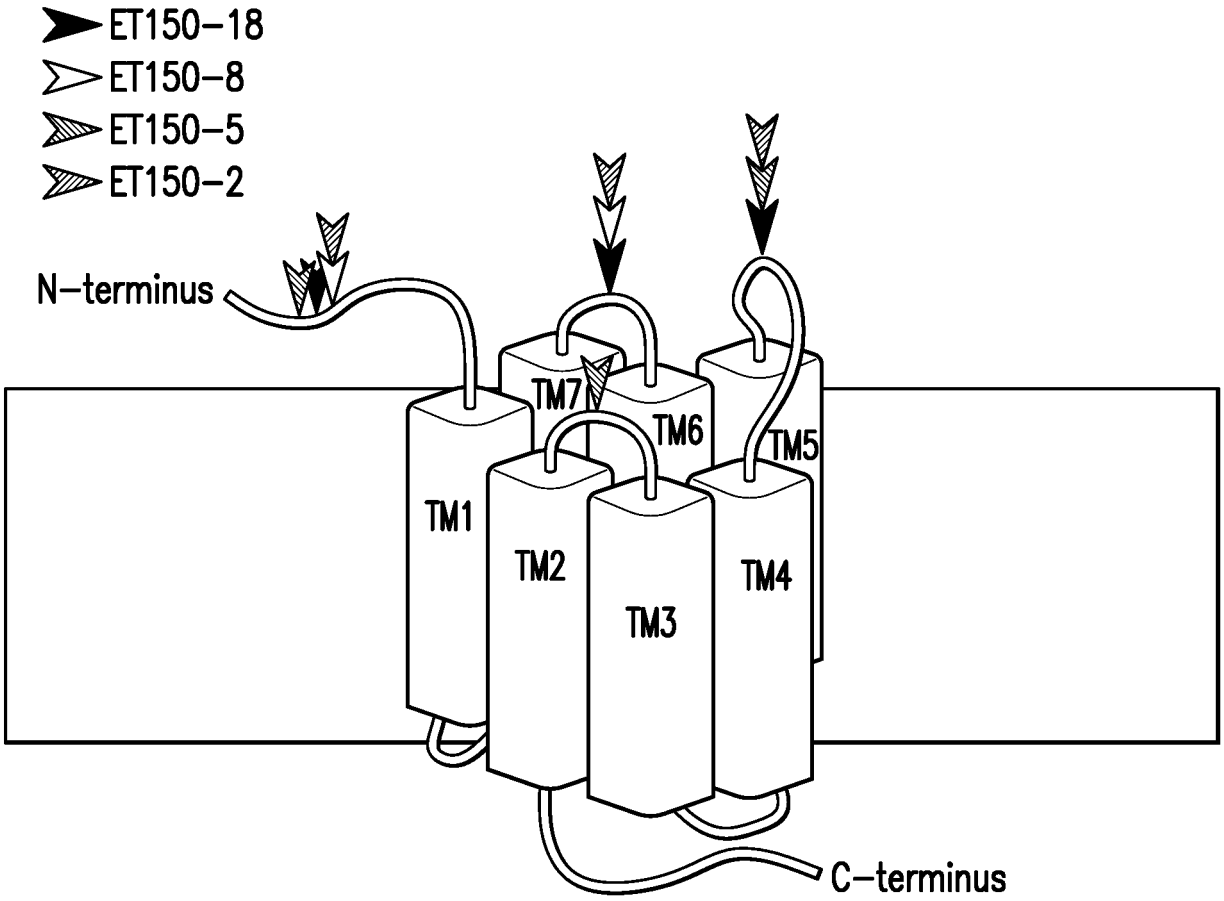

ET150-18
ET150-8
ET150-5
ET150-2
N-terminus
TM7
TM6
TM5
TM1
TM2
TM3
TM4
C-terminus

FIG. 10

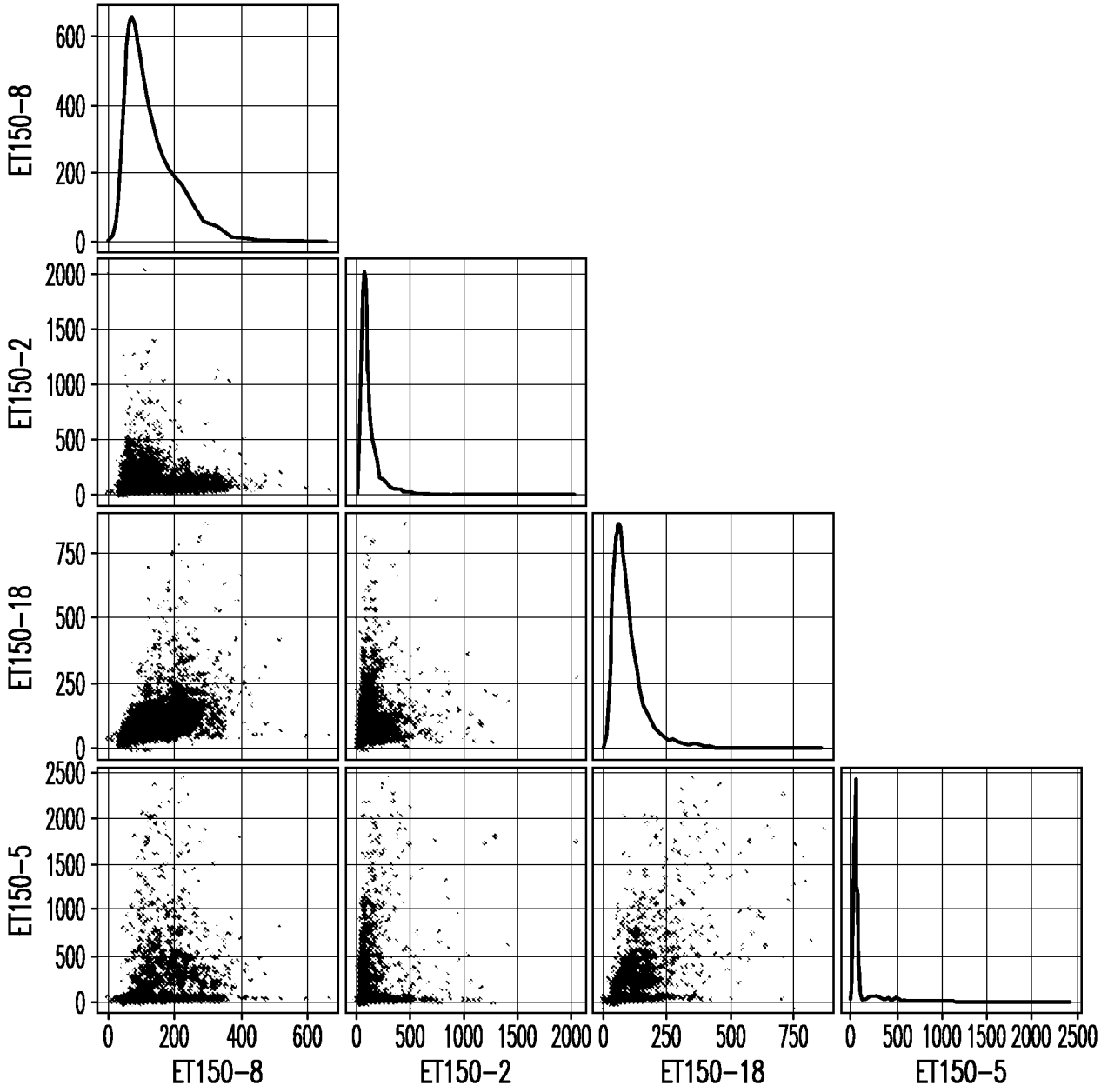
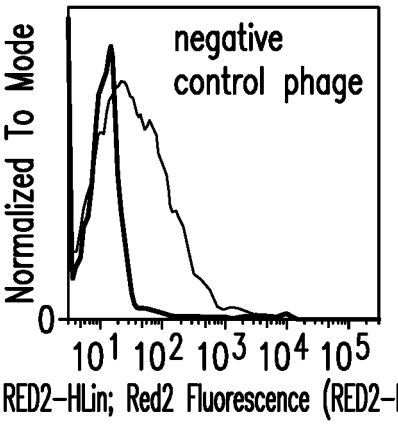
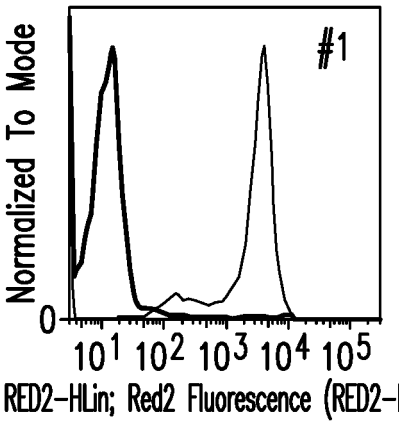

ET150-8
ET150-2
ET150-18
ET150-5
0
200
400
600
500
1000
1500
2000
250
750
2500

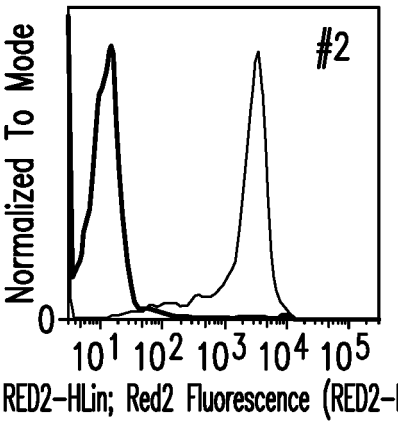
FIG. 11



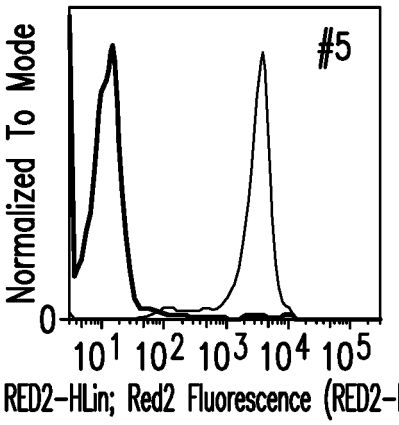
	Sample Name	Median, RED2-HLin
——	B01 3T3-ET150+ K07 fcs	23.5
——	A04 anti-M13+ APC mIgG fcs	10.9



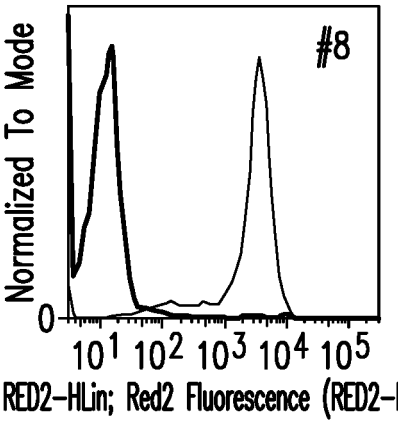
	Sample Name	Median, RED2-HLin
——	B02 3T3-ET150+ ET150-1 fcs	3232
——	A04 anti-M13+ APC mIgG fcs	10.9



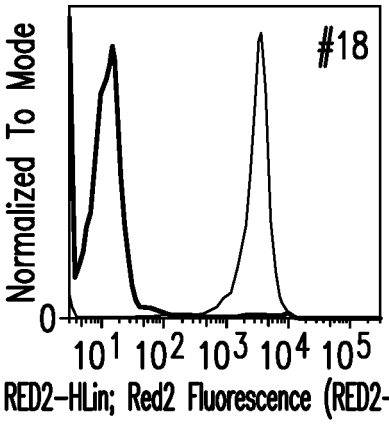
	Sample Name	Median, RED2-HLin
——	B03 3T3-ET150+ ET150-2 fcs	2404
——	A04 anti-M13+ APC mIgG fcs	10.9



	Sample Name	Median, RED2-HLin
——	B04 3T3-ET150+ ET150-5 fcs	3216
——	A04 anti-M13+ APC mIgG fcs	10.9



	Sample Name	Median, RED2-HLin
——	B05 3T3-ET150+ ET150-8 fcs	3113
——	A04 anti-M13+ APC mIgG fcs	10.9



	Sample Name	Median, RED2-HLin
——	B07 3T3-ET150+ ET150-18 fcs	3176
——	A04 anti-M13+ APC mIgG fcs	10.9

FIG. 12

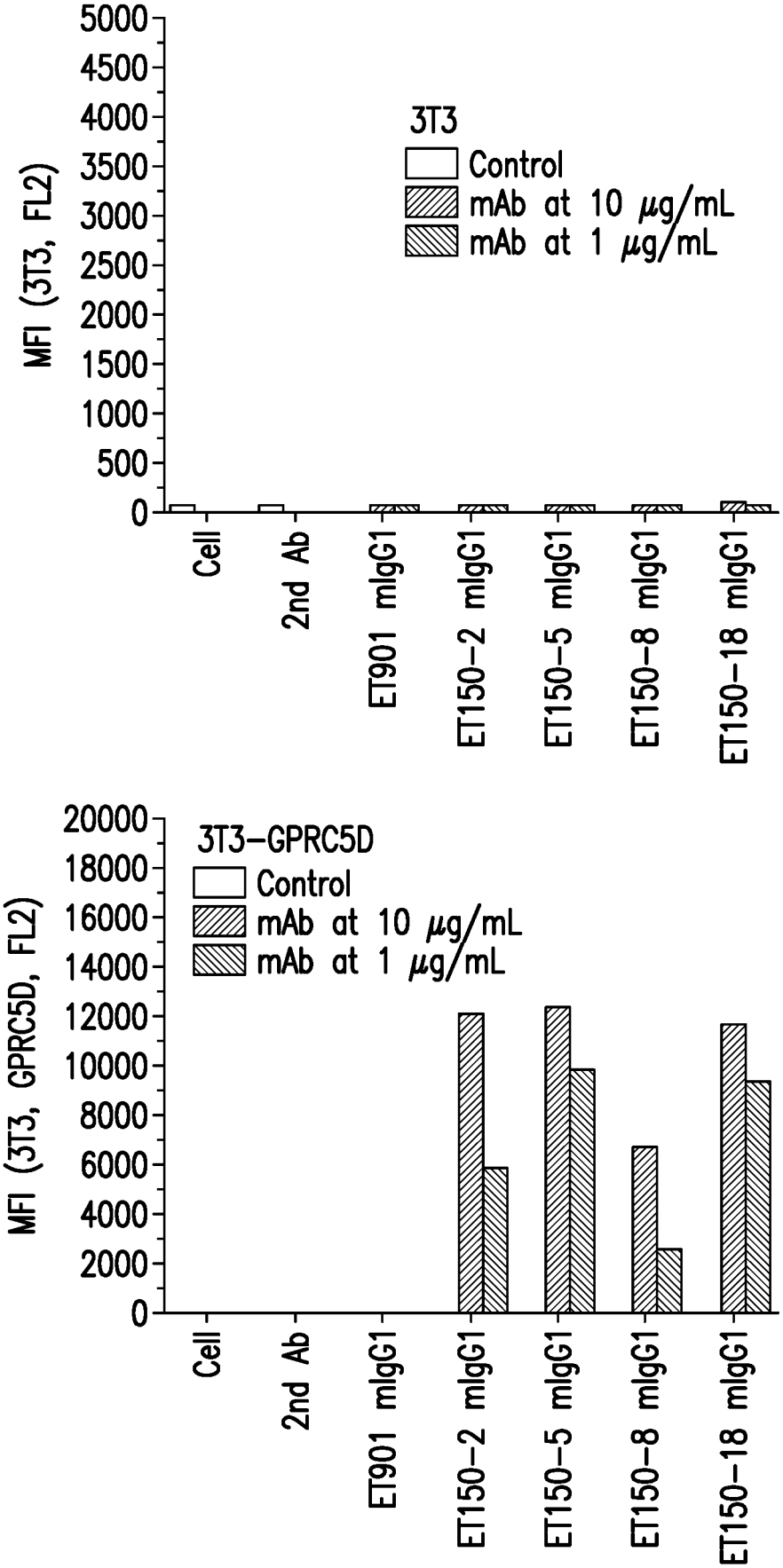

3T3
Control
mAb at 10 μg/mL
mAb at 1 μg/mL
MFI (3T3, FL2)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Cell
2nd Ab
ET901 mIgG1
ET150-2 mIgG1
ET150-5 mIgG1
ET150-8 mIgG1
ET150-18 mIgG1
3T3-GPRC5D
Control
mAb at 10 μg/mL
mAb at 1 μg/mL
MFI (3T3, GPRC5D, FL2)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Cell
2nd Ab
ET901 mIgG1
ET150-2 mIgG1
ET150-5 mIgG1
ET150-8 mIgG1
ET150-18 mIgG1

FIG. 13

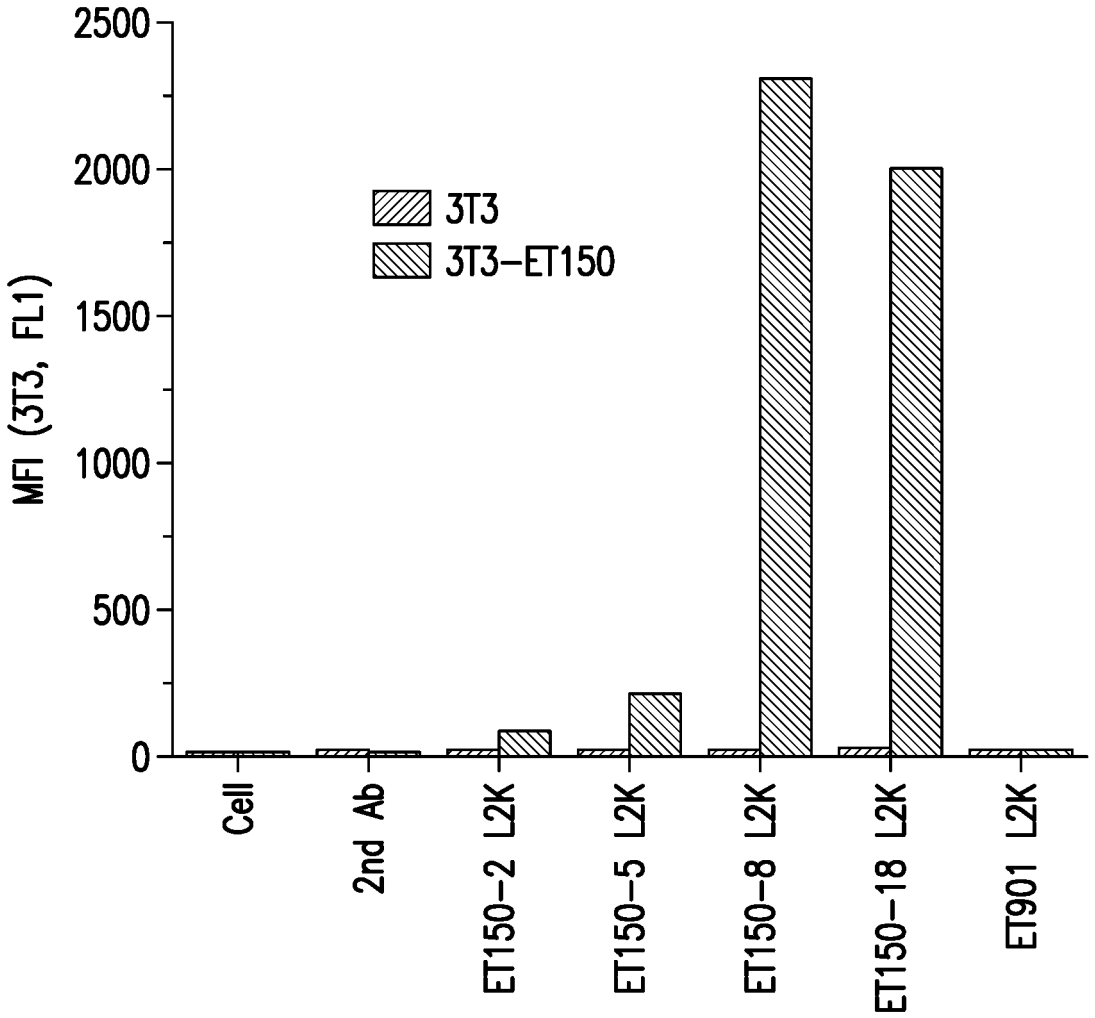

2500
2000
1500
1000
500
0
MFI (3T3, FL1)
3T3
3T3-ET150
Cell
2nd Ab
ET150-2 L2K
ET150-5 L2K
ET150-8 L2K
ET150-18 L2K
ET901 L2K

FIG. 14