

FIG. 1

Marker	Mult. Factor	Marker	Mult. Factor	Marker	Mult. Factor	Marker	Mult. Factor
A1Micro	1	CD40	10	GLP1T	10	IL7	1
A2Macro	10	CD40L	1000	GROA	1	IL8	1
AACT	1	CD5	1	GSTA	10	Insulin	10
AAT	100	CEA	10	HTG	100	IP10	1
ACE	1	CgA	1	HBEGF	1	KIM1	1000
ACTH	100	CKMB	10	CK4	10	Leptin	10
Adiponectin	10	CLU	1	HGF	1	LH	10
AFP	10	CFH	1	TLSP1309	1	LOX1	10
AGRP	1	Cortisol	1	ICAM1	1	APOA	1
ANG2	1	CP	100	IFNg	10	MCP1	1
Angiotensinogen	10	CRP	100	IgA	100	MCP2	1
APOA1	1000	C	1	IgE	1	MCP4	1
APOA2	1	EGF	1	IGFBP2	1	MCSF1	100
APOA4	1	EGFR	1	IGF1	1	MDC	1
APOB	1	E78	10	IGM	100	MIF	1000
APOC1	1	ENRAGE	1	IL1A	1000	MIG	1
APOC3	1	E1	1	IL10	1	MIP1a	1
APOD	1	ES	1	IL12p40	100	MIP1b	1
APOE	1	FABPH	10	IL13	1	MIP3a	1
APOH	1	FVII	1	IL15	100	MMP1	10
AR	1	FASR	1	IL16	1	MMP10	10
AXL	1	FASL	1	IL18	1	MMP3	10
B2M	100	FA	1	IL1RA	1	MMP7	1
BDNF	1	FGF4	1	IL2	1	MMP9T	1
BLC	1	Fibrinogen	100	IL3	1000	MPIF1	10
BMP6	10	FRTN	1	IL4	1	MPO	1
C3	10	FSH	10	IL5	1	Myoglobin	1
CA125	1	GCSF	1	IL6	10	NCAL	1
CA199	10	GH	100	IL6R	1	NTproBNP	1

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FIG. 1 (cont.)

Marker	Mult. Factor	Marker	Mult. Factor	Marker	Mult. Factor	Marker	Mult. Factor
Osteopontin	10	TM	1	FABPI	1	NSE	1
PAI1	1	TNC	1	Fib1C	1	OPG	1
PAP	100	TNFa	1	G3	1	PGI	1
PAPPA	1000	TNFb	1	Gelsolin	1	Prostasin	1
PARC	1	TNFR2	10	HCG	10	PrxIV	100
PDGFBB	1	TBPT	10	HE4	1	PSAT	10
PIGF	1	TRAILR3	1	Hepsin	1	S100A4	1
PPP	1	STF	1	HEGFR2	100	S100A6	1
PRL	10	TSH	100	HGFy	1	SCCA1	100
Progesterone	1	TT	1	HGFrec	1	SDF1	1
PII	1	VCAM1	1	IGFBP1	10	Tetranectin	1
PIT	1	VEGF	1	IGFBP3	1	TG	1
RAGE	10	Vitronectin	1	IGFBP4	1	TIE2	1
RANTES	1	VKDPS	1	IGFBP5	1	TNFR1	1
Resistin	10	vWF	1	IGFBP6	1	TtPA	100
S100B	100	X6Ckine	1	IL2ra	1	UTPA	1
SAP	1	AldRed	1	IL6rb	1	UtPAR	10
SCF	1	Angiogenin	1	ITAC	1	VEGFC	1
SGOT	10	BAFF	1	KLK5	100	VEGFD	1
SHBG	1	CA153	10	KLK7	1	VEGFR1	1
SOD1	1	Calprotectin	1	LAPTGFb1	10	VEGFR2	1
Sortilin	10	CathepsinD	1	LGL	1	VEGFR3	1
TBG	1	cFib	10	MICA	1	YKL40	1
TECK	1	CIV	1	MIP3b	1		
Testosterone	10	Endoglin	100	MSLN	1		
TFF3	100	Endostatin	1	MSP	1		
THP	1000	ET2	1	NDKB	10		
TBS1	1	ErbB3	100	Neuropilin1	1		
TIMP1	1	FABPa	1	NGALy	1		

Alpha 1 Microglobulin

I-Test P value:	0.003933298
Anova P value	0.010379004

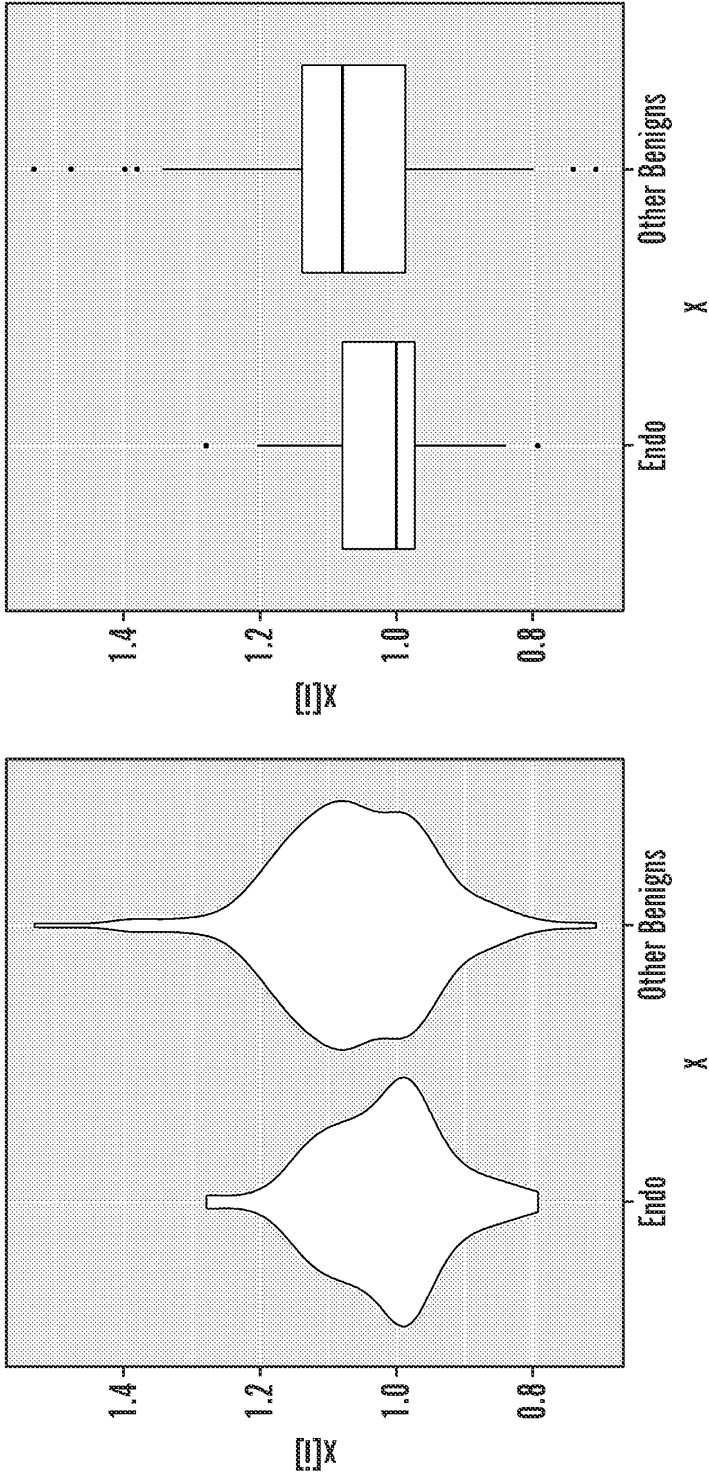


FIG. 2

Alpha Fetoprotein

I-Test P value:	0.016473646
Anova P value	0.015039596

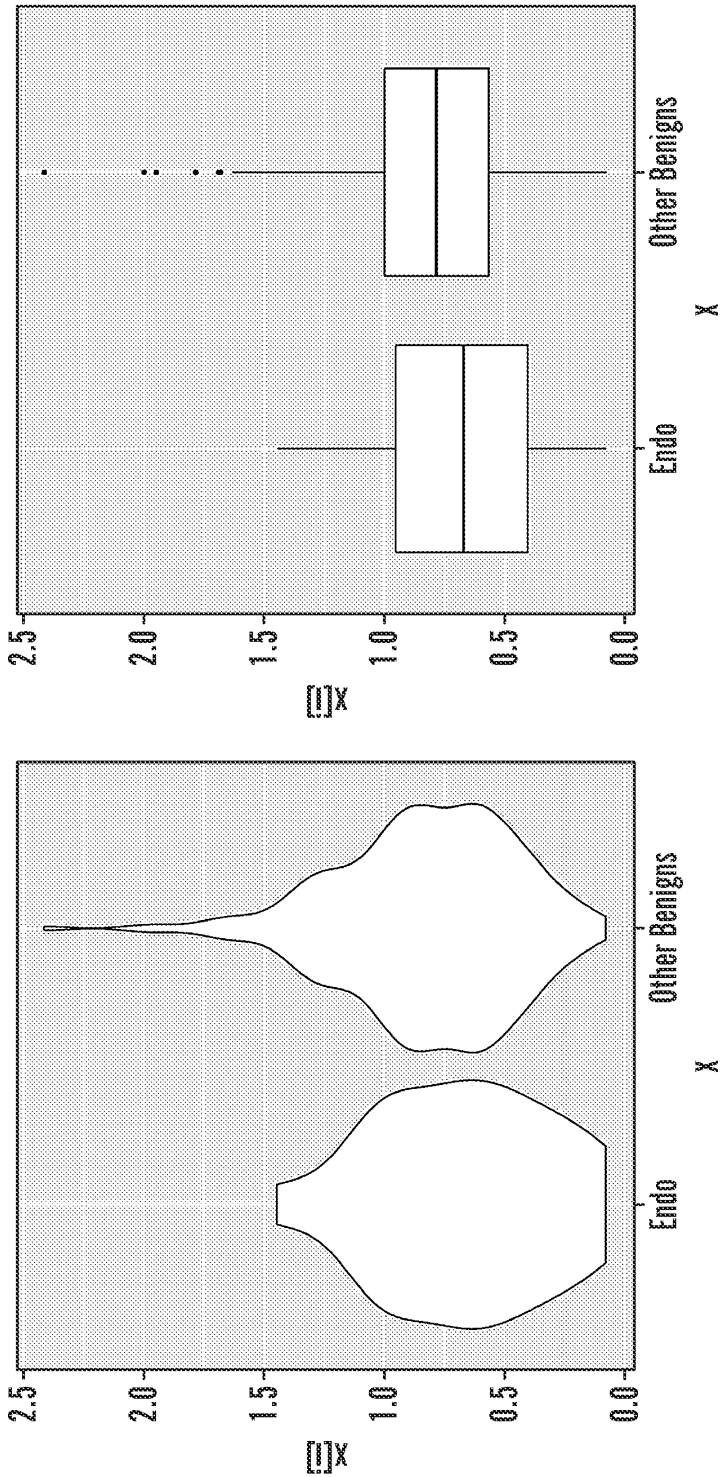


FIG. 3

Angiotensin 2

I-Test P value:	0.010990969
Anova P value	0.023081554

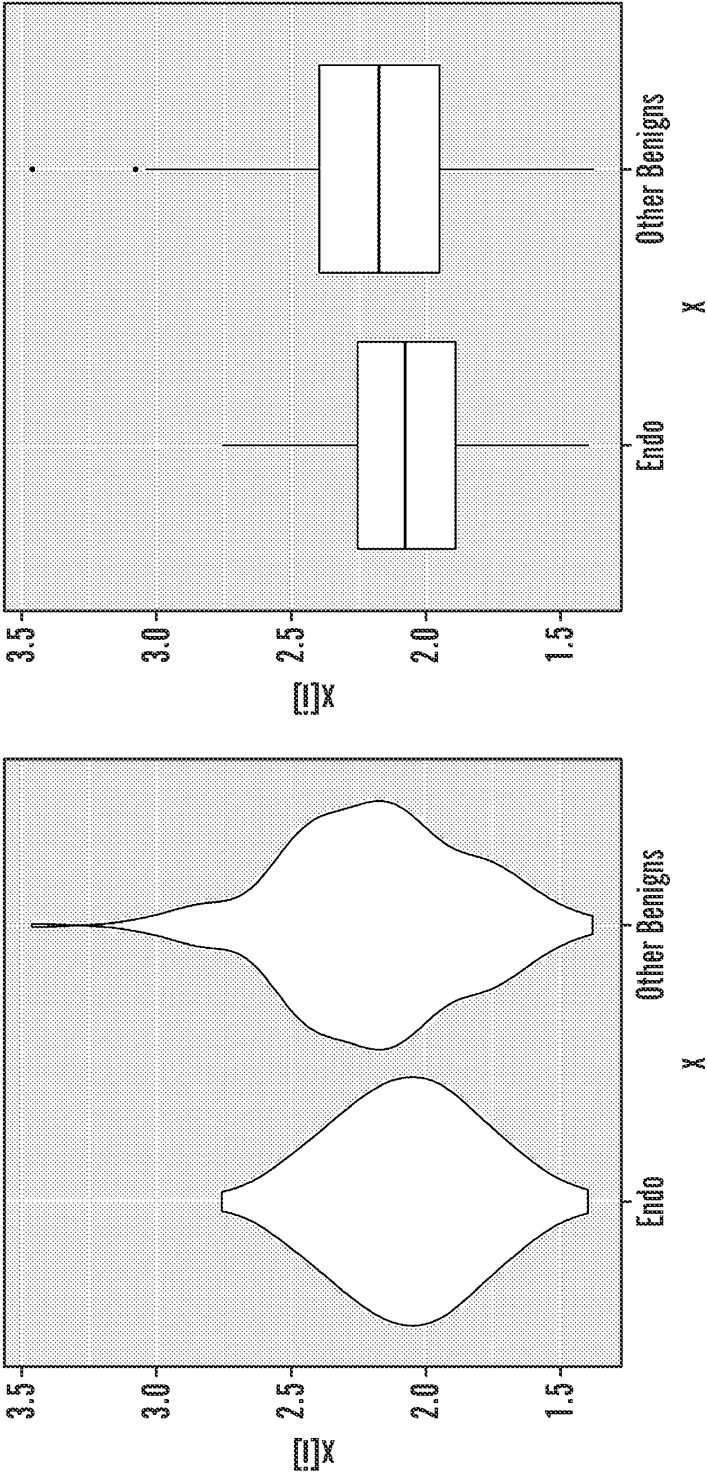


FIG. 4

Apolipoprotein B

I-Test P value:	0.029977767
Anova P value	0.029932241

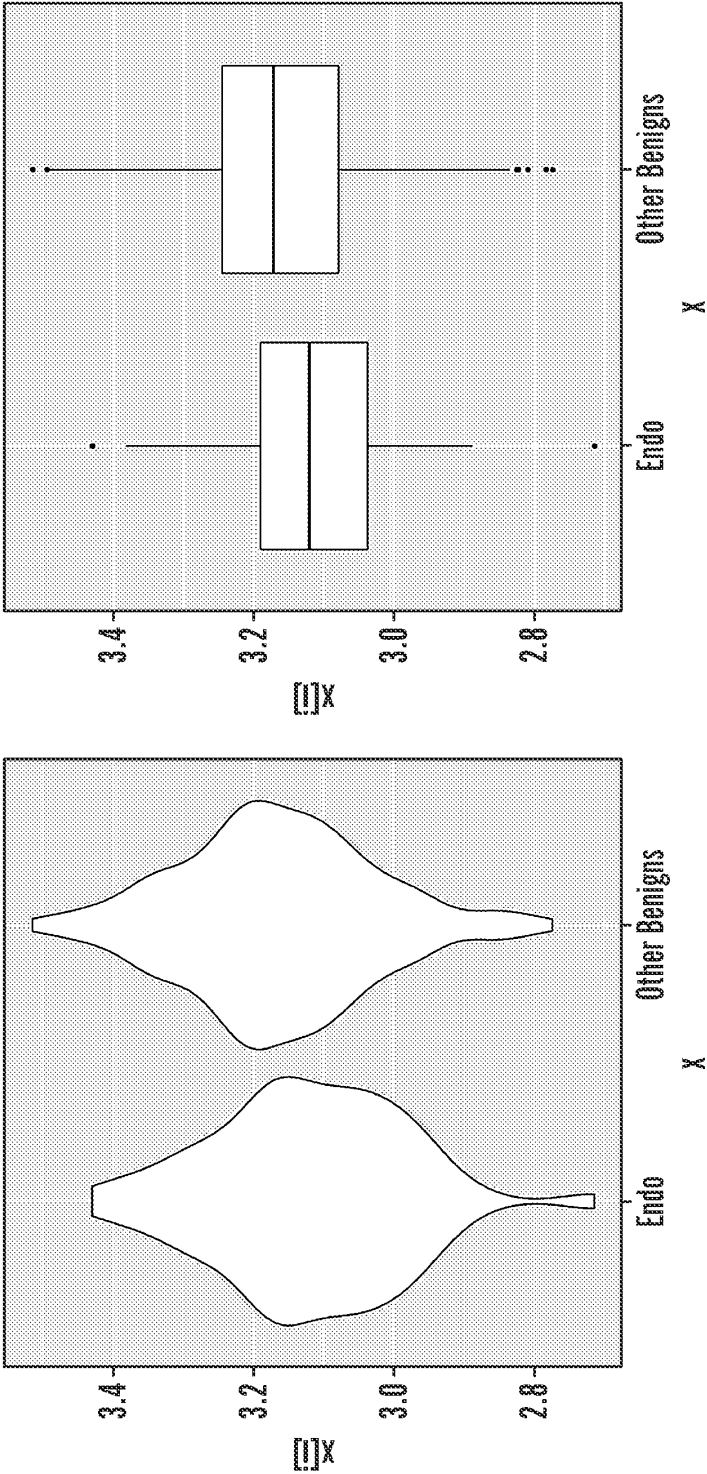


FIG. 5

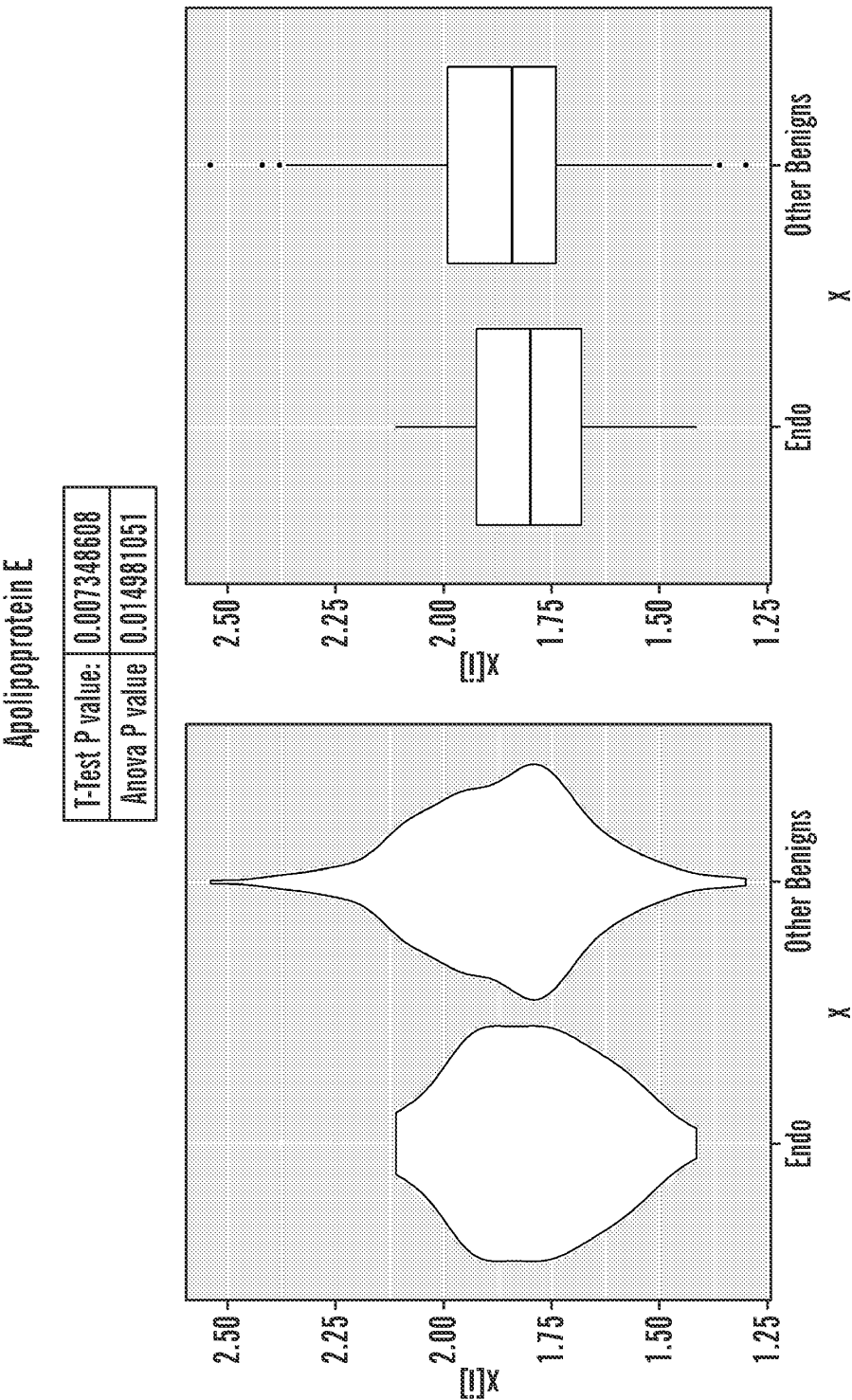


FIG. 6

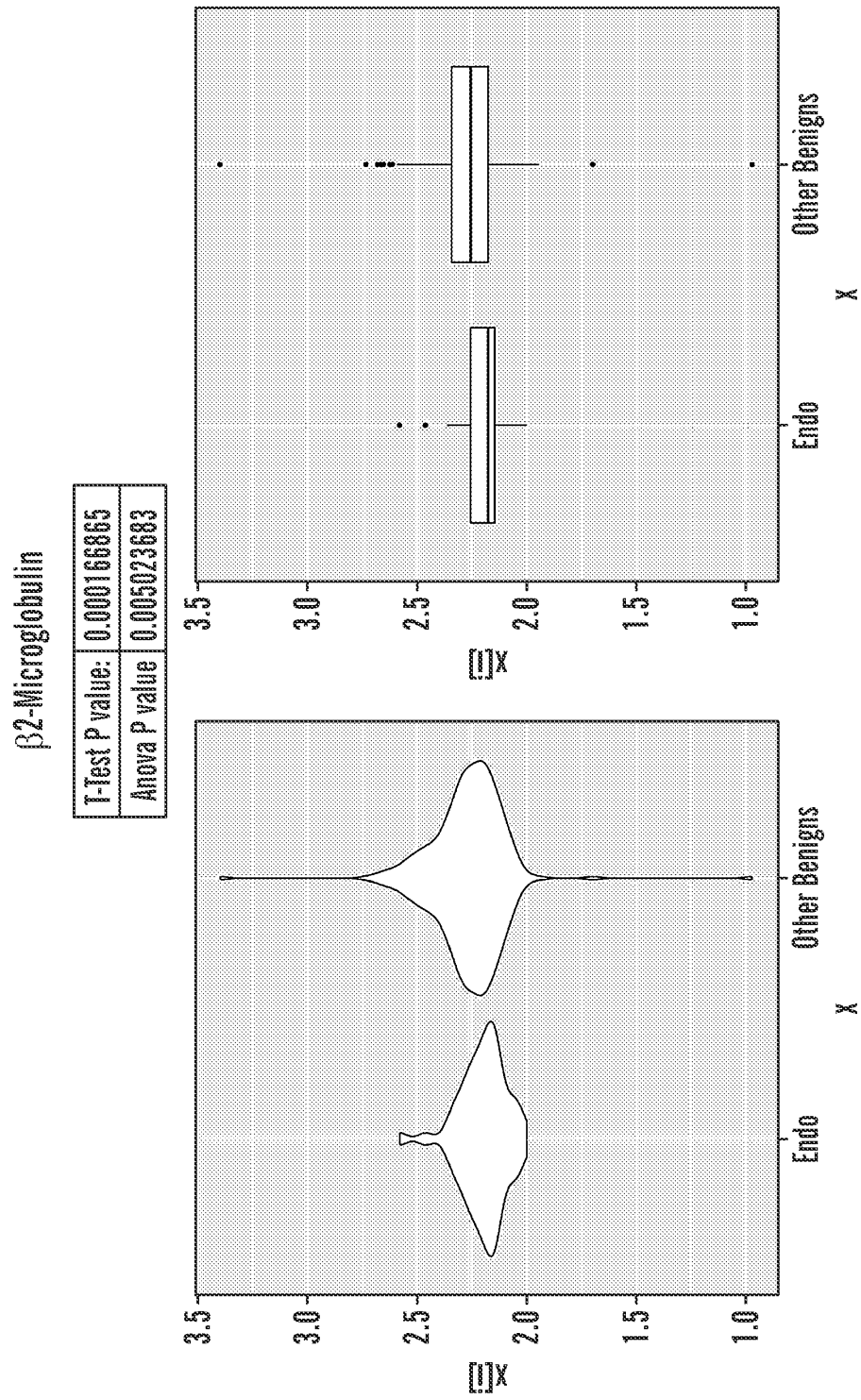


FIG. 7

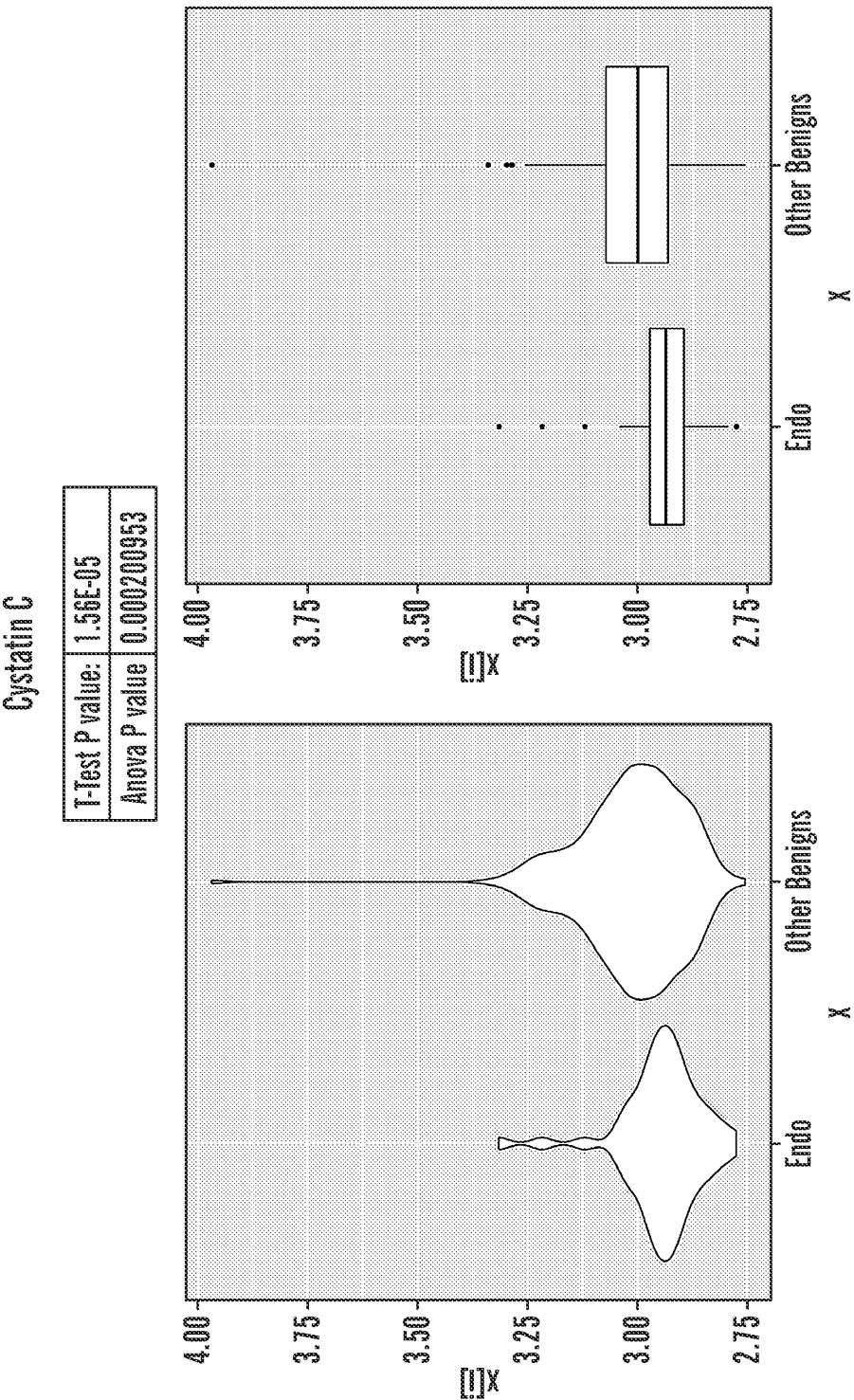


FIG. 8

Cancer Antigen 125

I-Test P value:	4.15E-12
Anova P value	1.87E-14

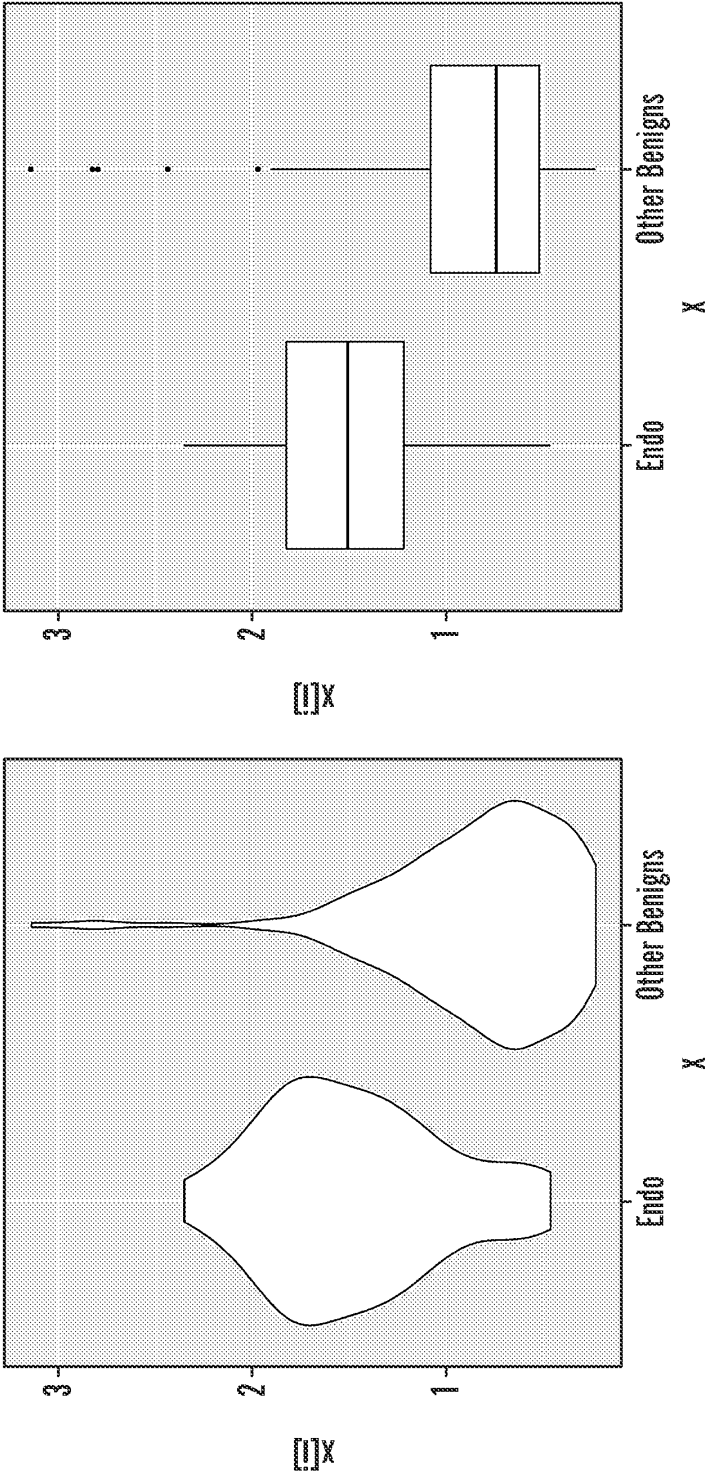


FIG. 9

CD 40 Antigen

I-Test P value:	0.006092049
Anova P value	0.012779953

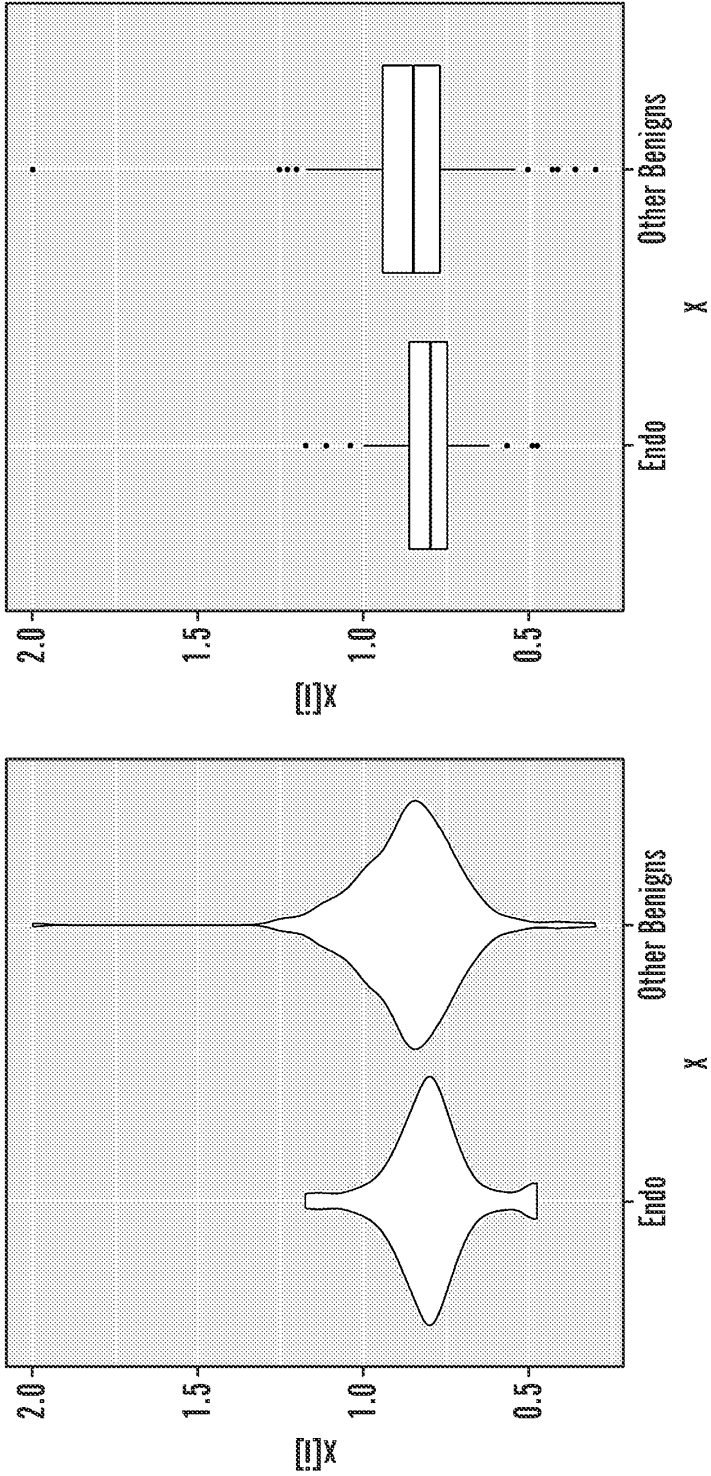


FIG. 10

Chromogranin A

I-Test P value:	0.008407717
Anova P value	0.020997956

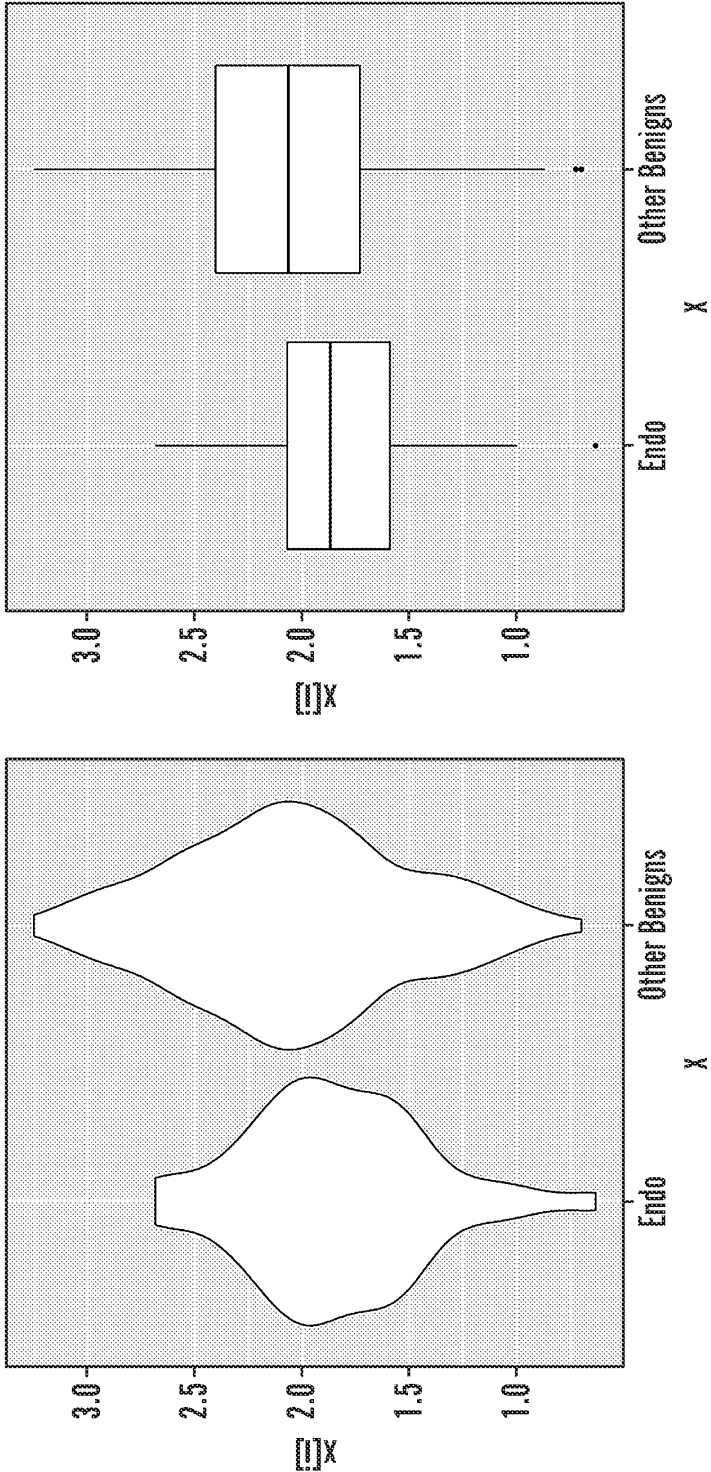


FIG. 11

Chemokine 4

I-Test P value:	0.000678694
Anova P value	0.000326238

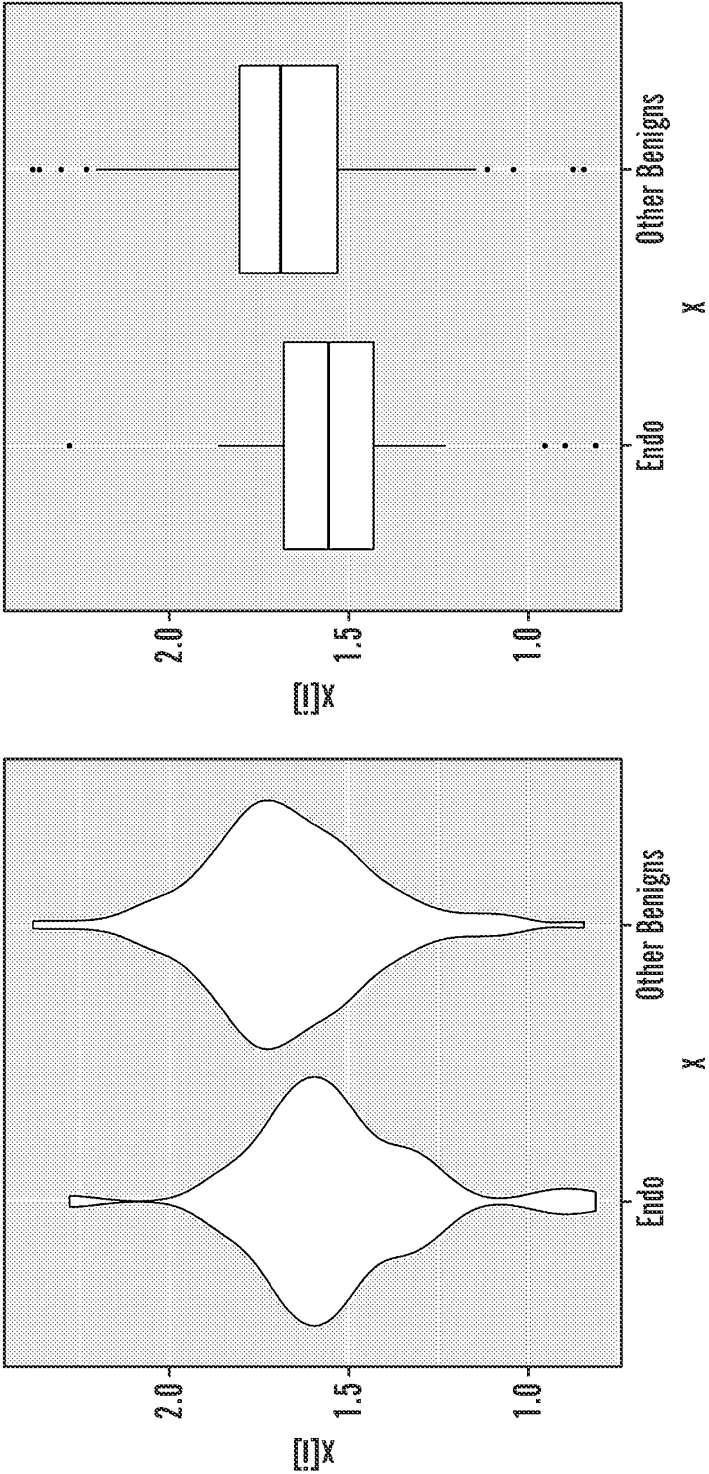


FIG. 12

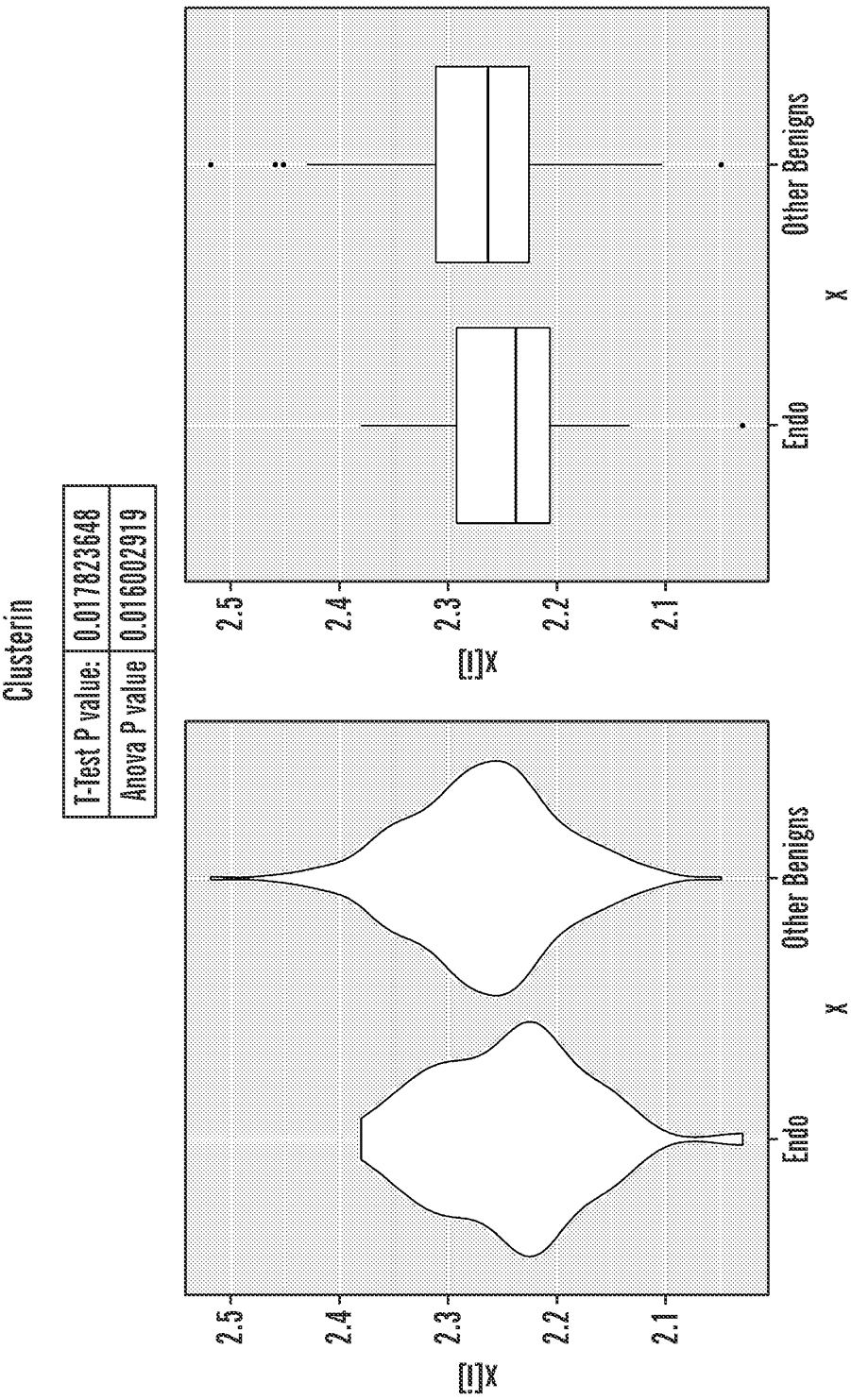


FIG. 13

Eotaxin 1

I-Test P value:	0.012325464
Anova P value	0.009555745

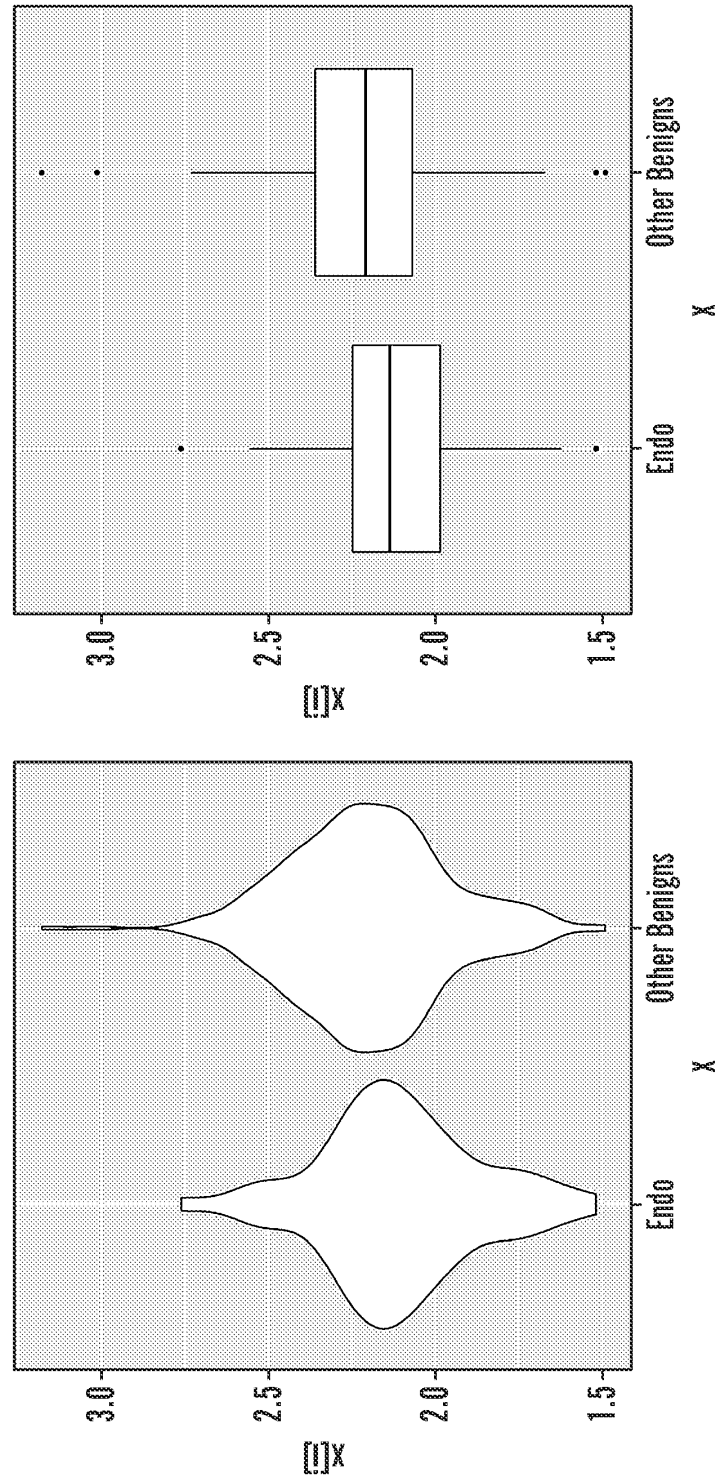


FIG. 14

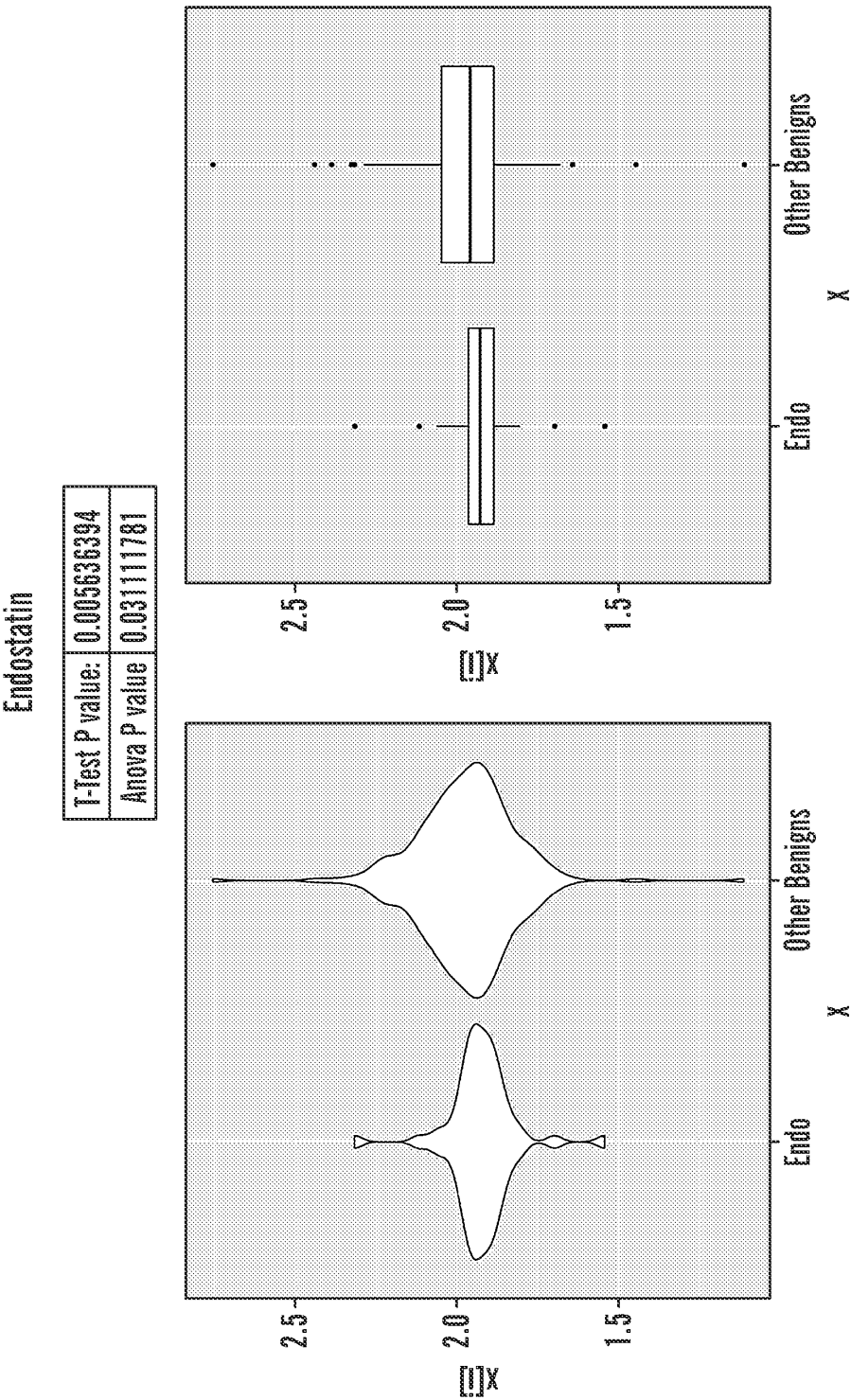


FIG. 15

EN-RAGE (S100A12)

I-Test P value:	0.04410589
Anova P value	0.36554306

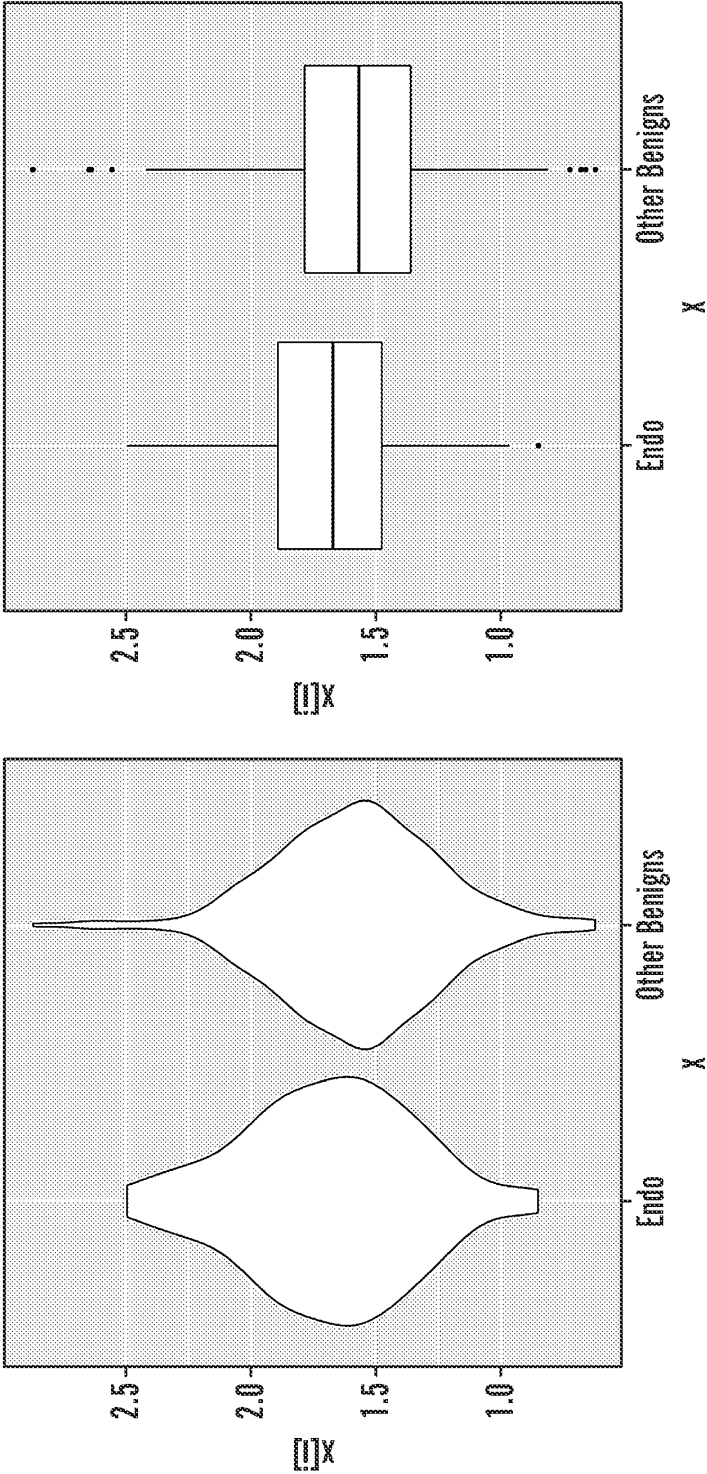


FIG. 16

Fatty Acid Binding Protein (adipocyte)

I-Test P value:	1.87E-05
Anova P value	1.35E-05

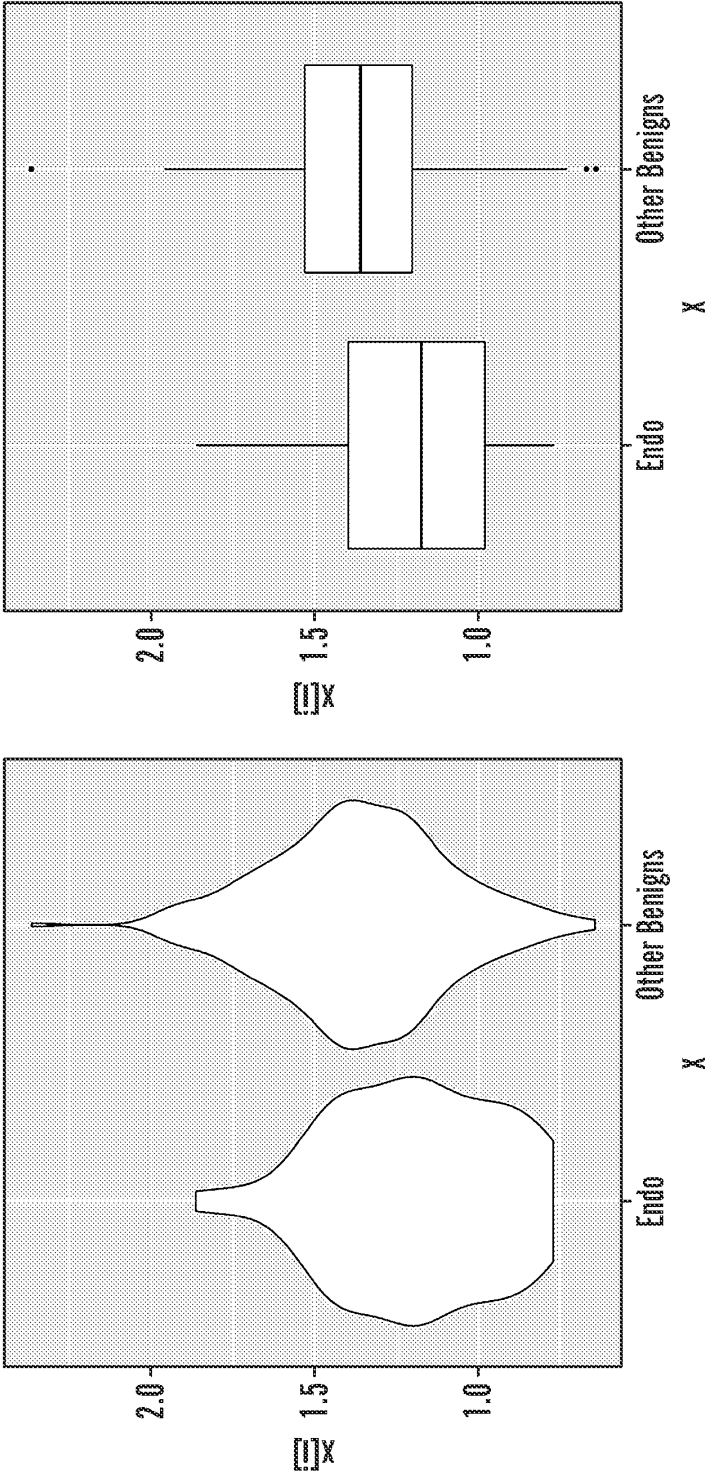


FIG. 17

Fatty Acid Binding Protein (heart)

T-Test P value:	0.003011309
Anova P value	0.004096809

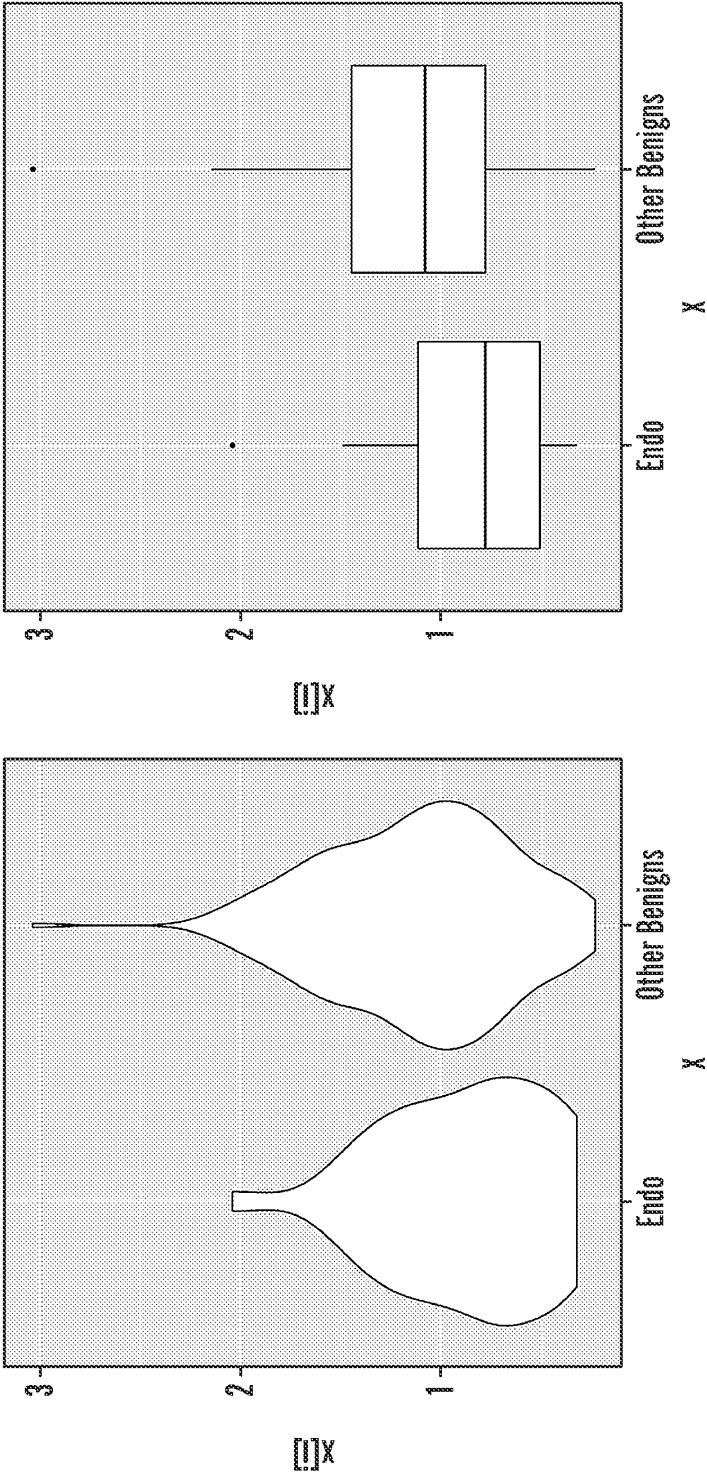


FIG. 18

Fas Ligand Receptor

I-Test P value:	0.000349298
Anova P value	0.00056404

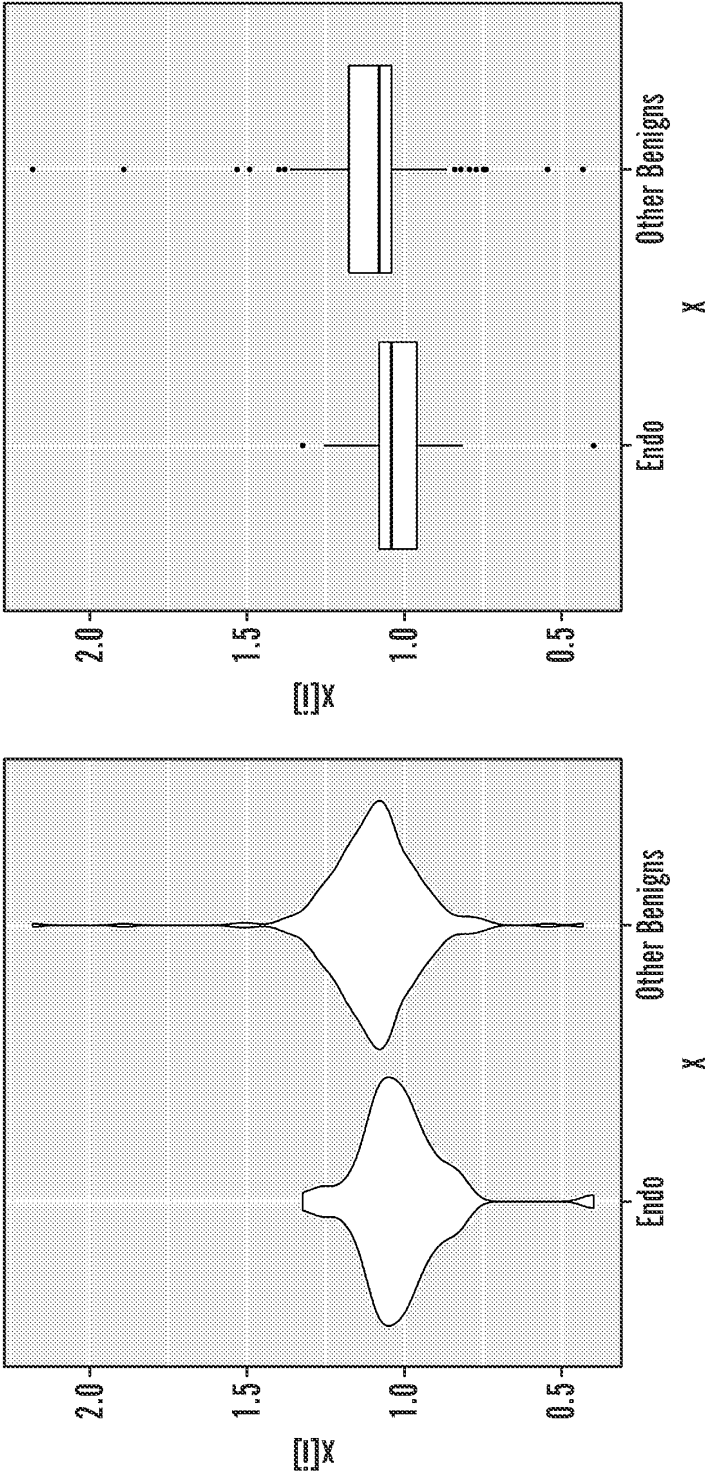


FIG. 19

Ferritin

I-Test P value:	0.000232379
Anova P value	0.001626368

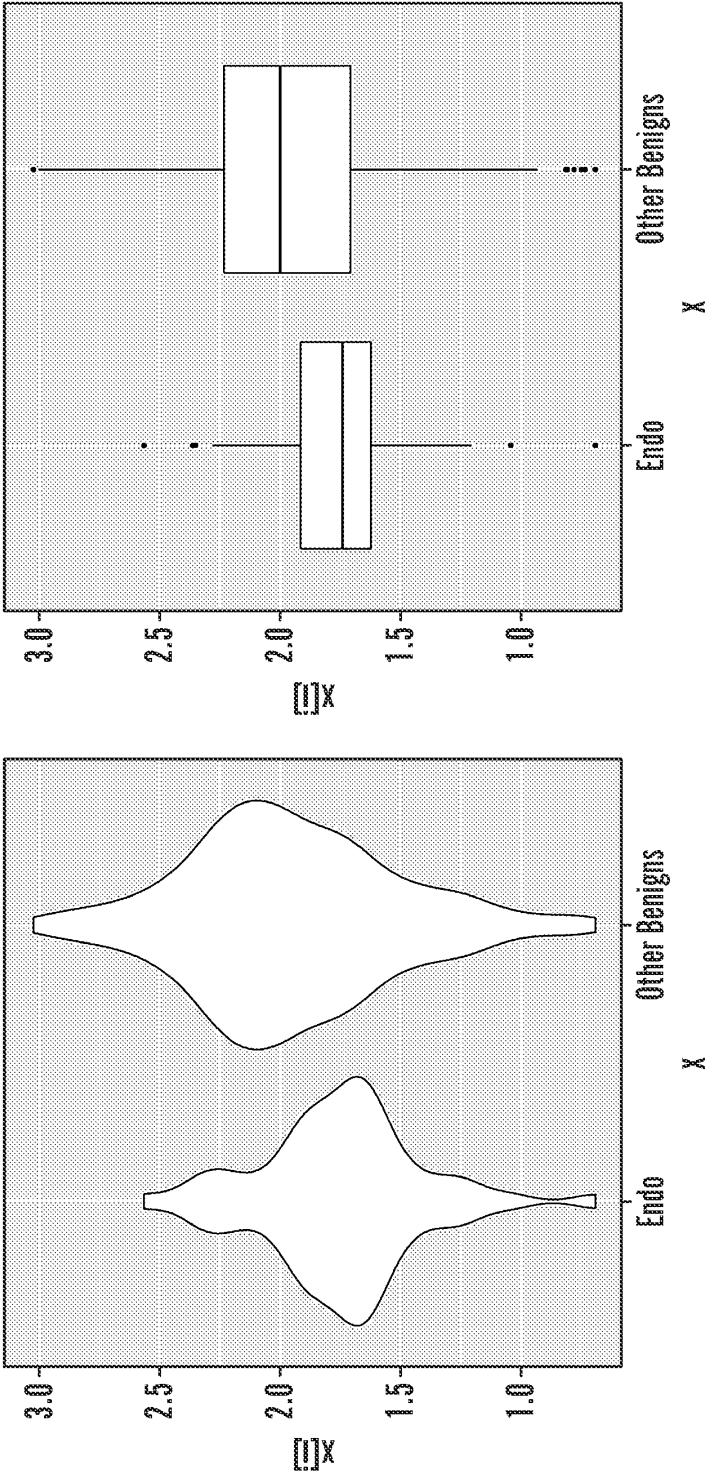


FIG. 20

Follicle Stimulating Hormone

I-Test P value:	3.52E-06
Anova P value	6.76E-06

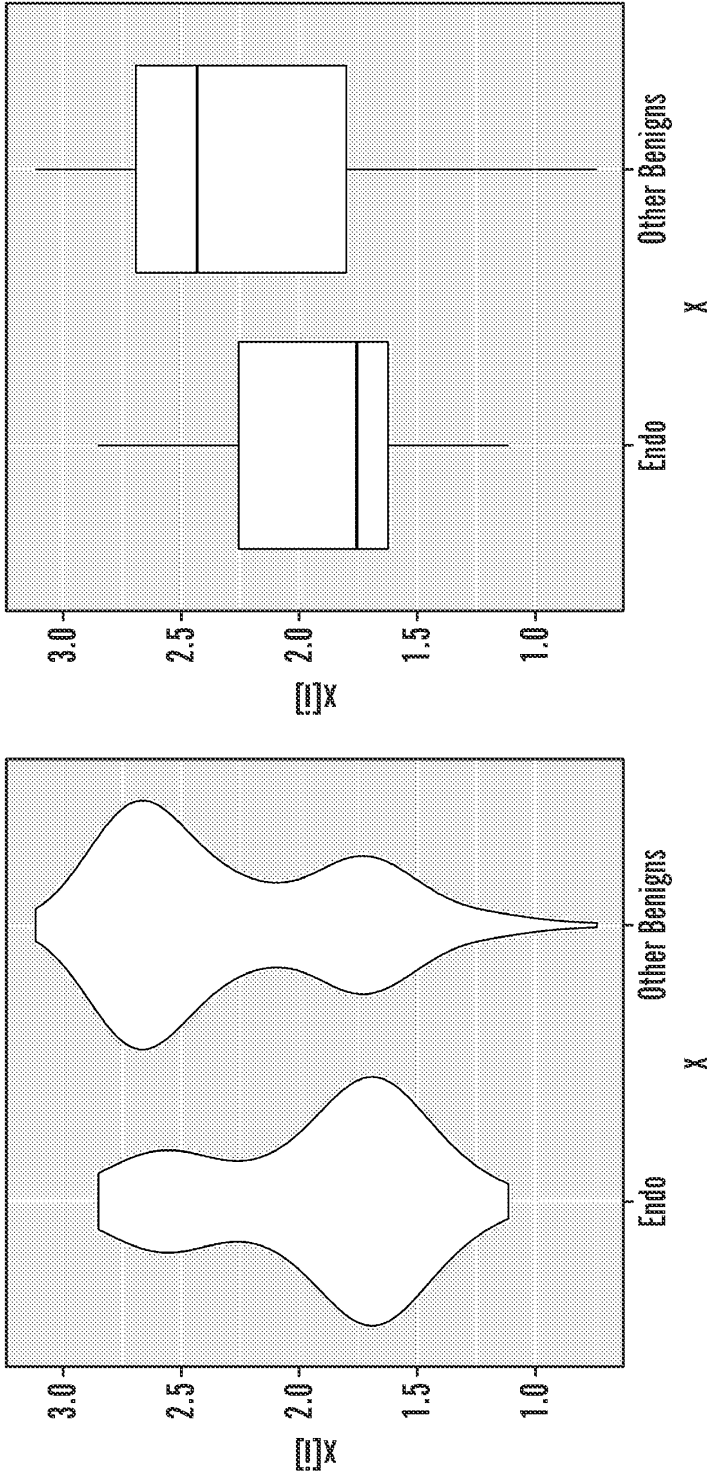


FIG. 21

Galectin 3

I-Test P value:	0.00369366
Anova P value	0.007889349

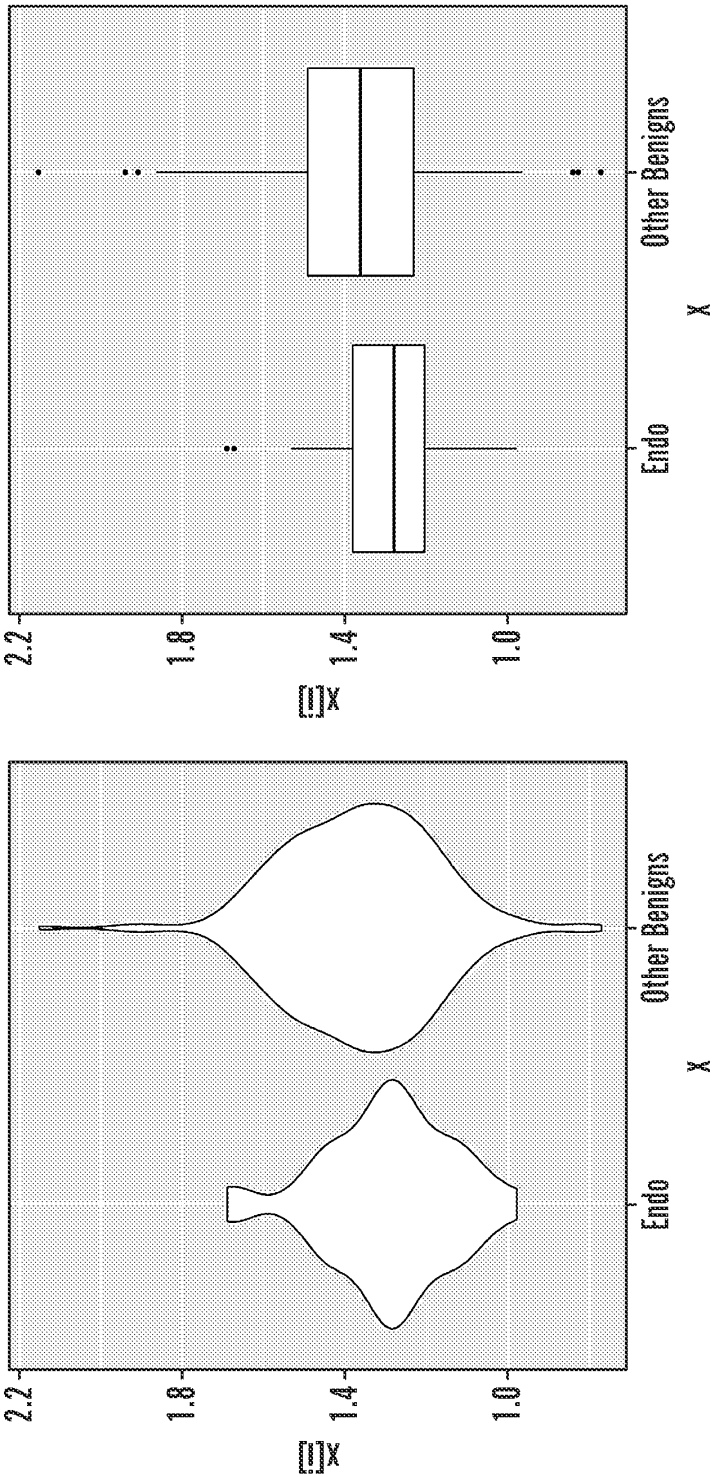


FIG. 22

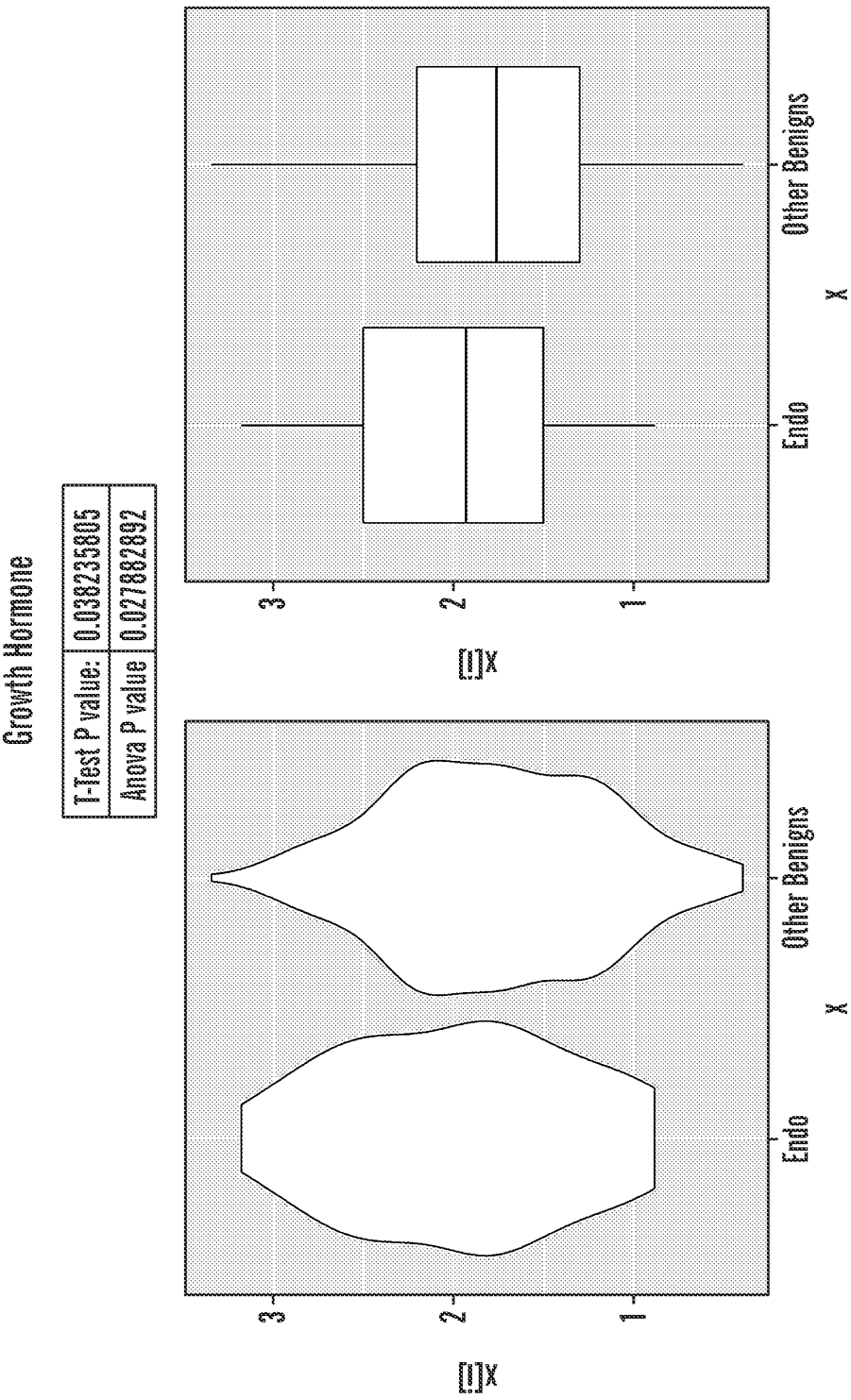


FIG. 23

Citathione S Transferase alpha

T-Test P value:	0.001228458
Anova P value	0.00360313

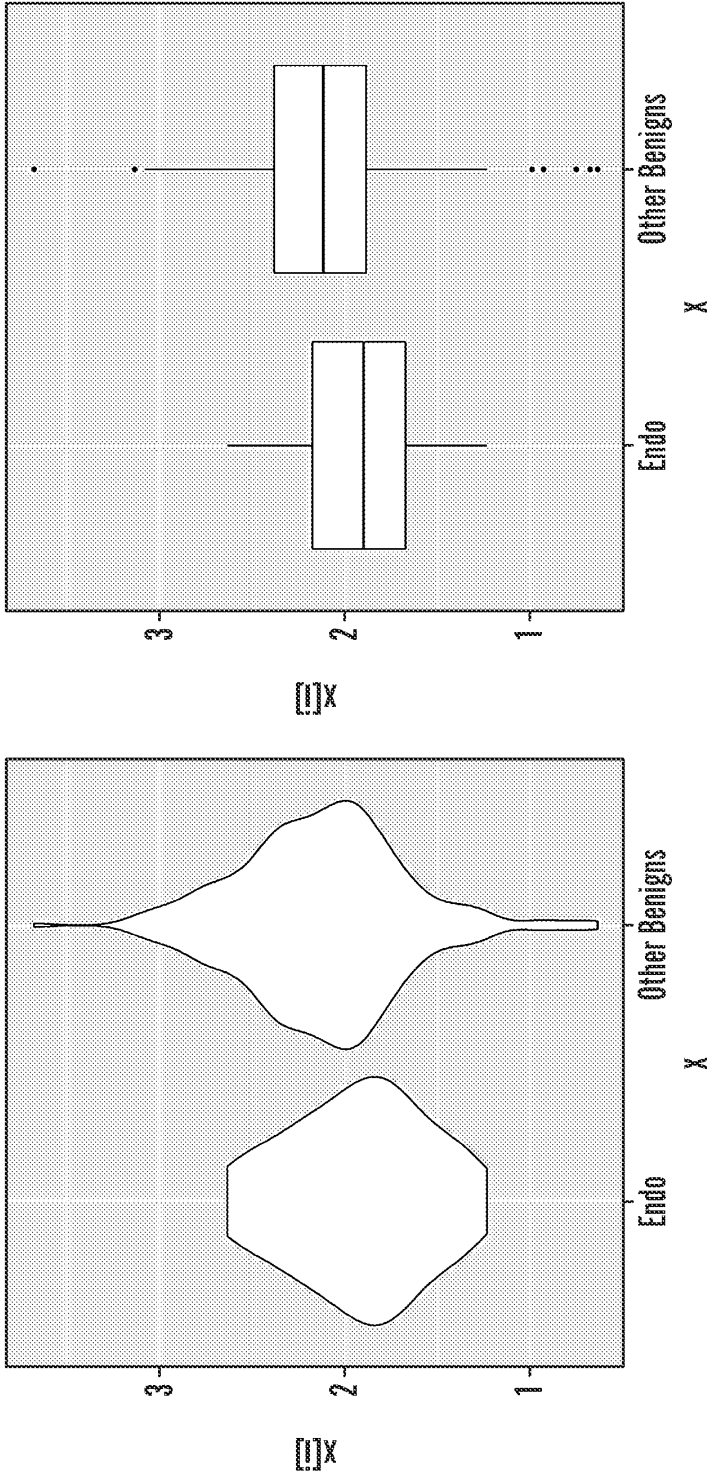


FIG. 24

Human Chorionic Gonadotropin

I-Test P value:	4.34E-05
Anova P value	0.000140447

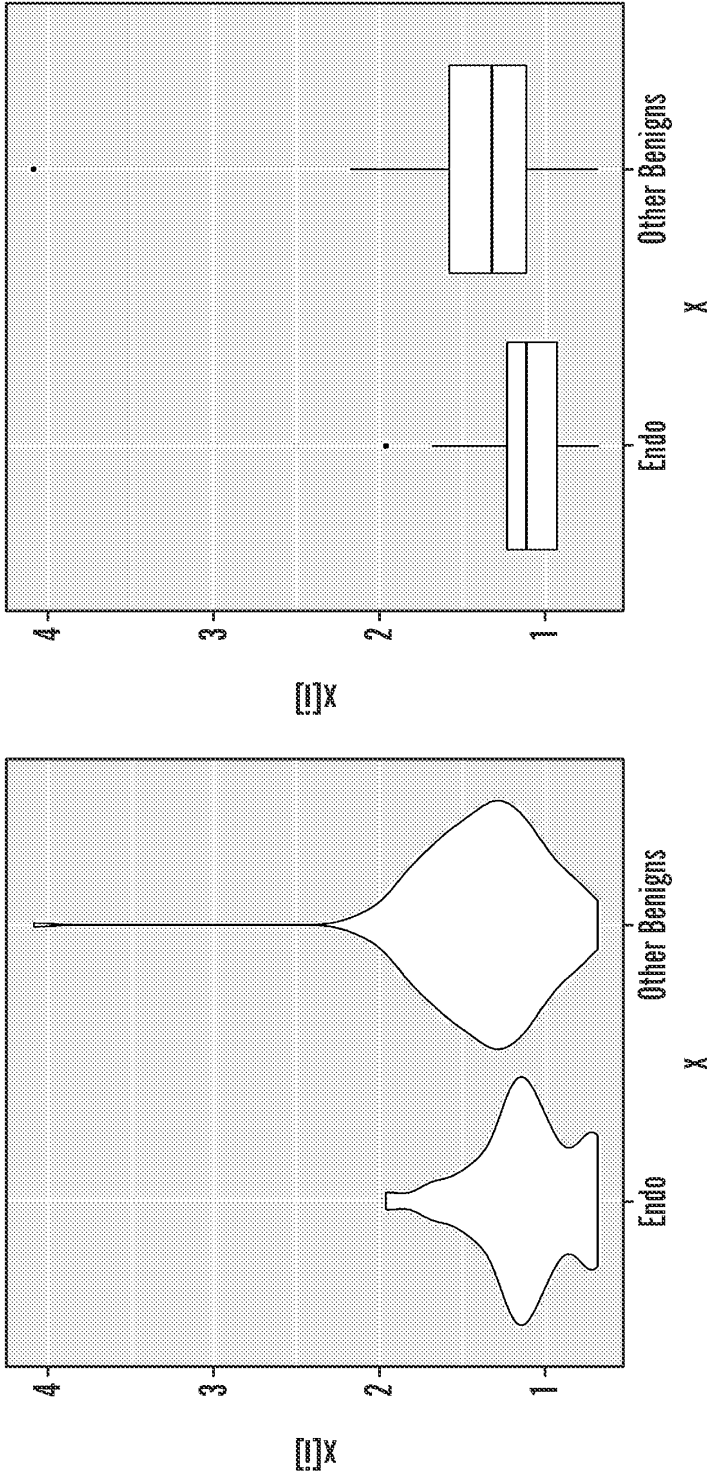


FIG. 25

Hepatocyte Growth Factor

I-Test P value:	0.015442162
Anova P value	0.018777349

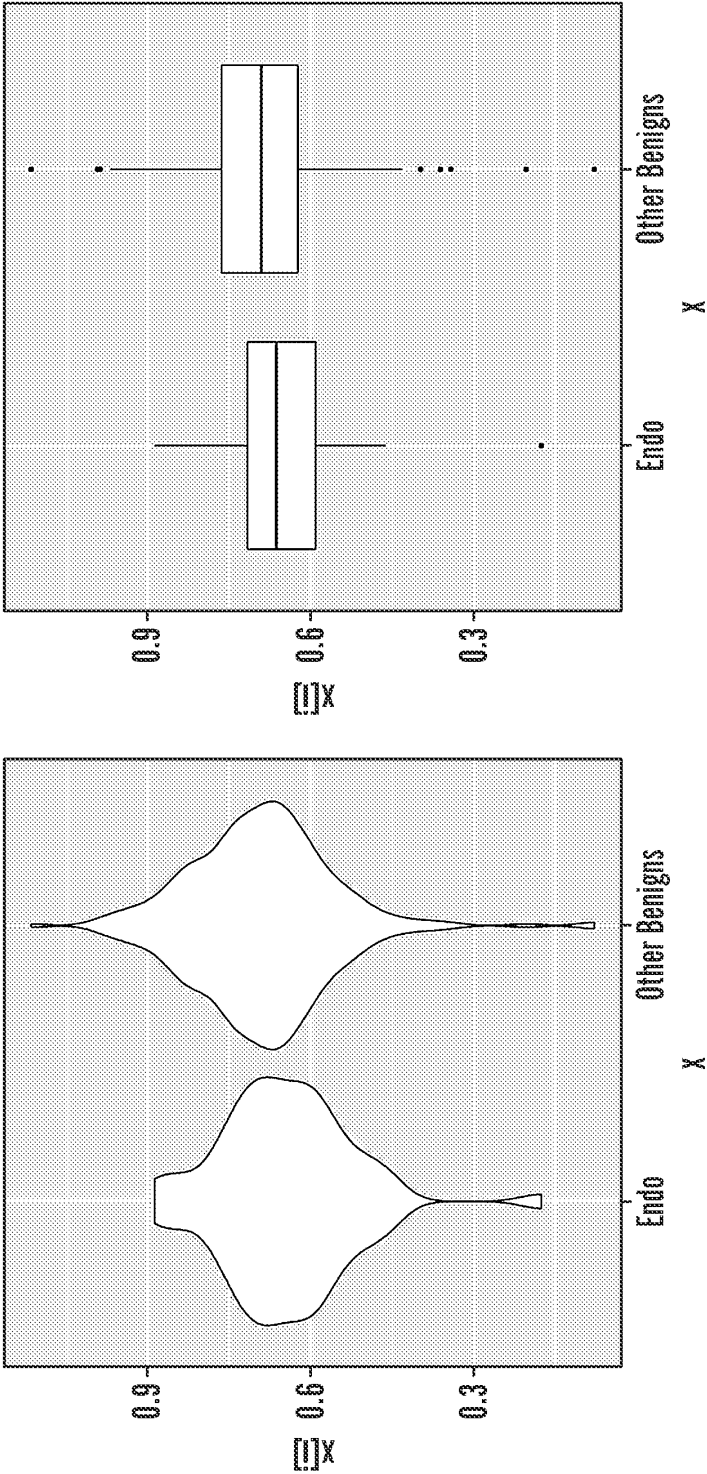


FIG. 26

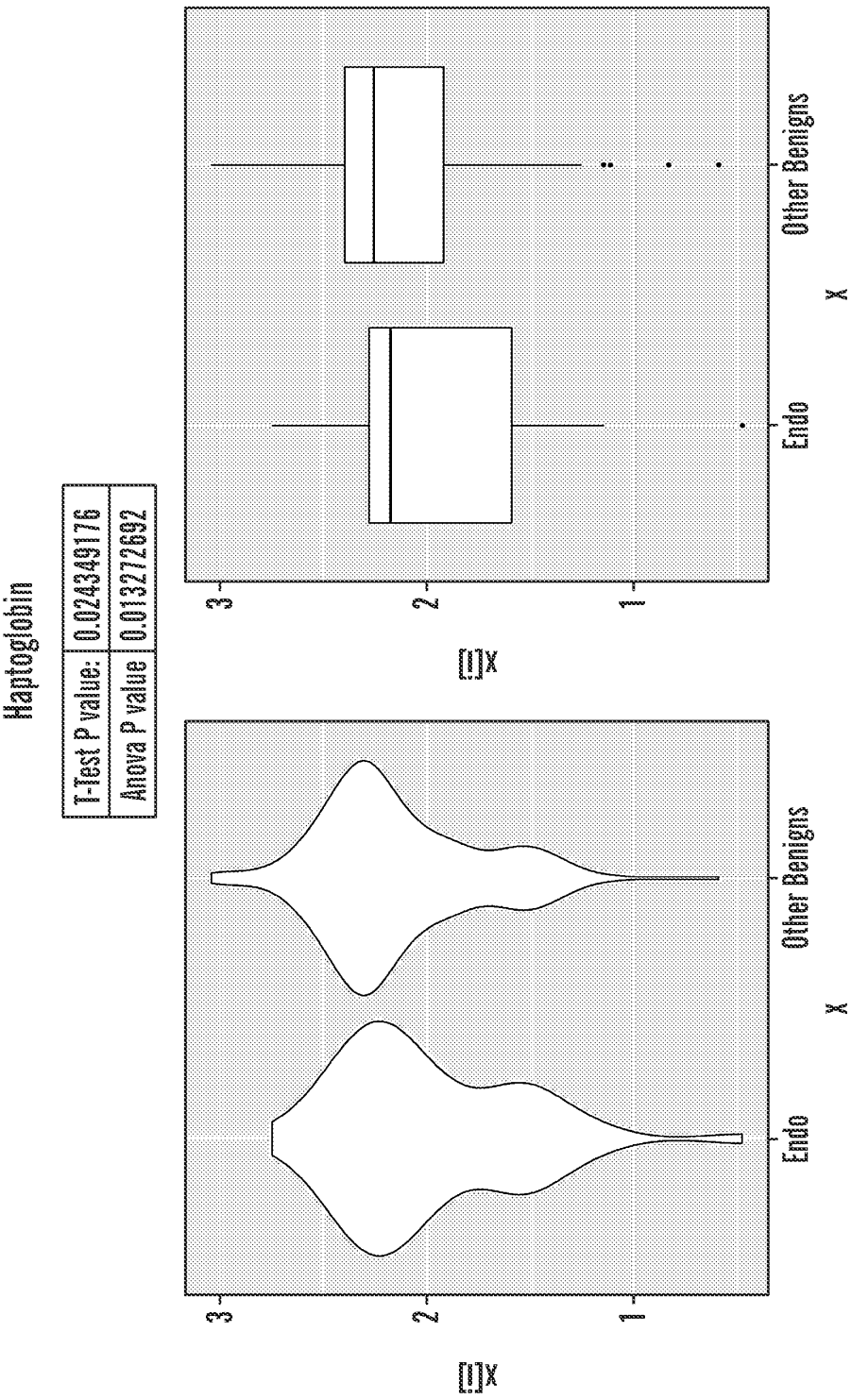


FIG. 27

Immunoglobulin E

I-Test P value:	0.002767311
Anova P value	0.01606784

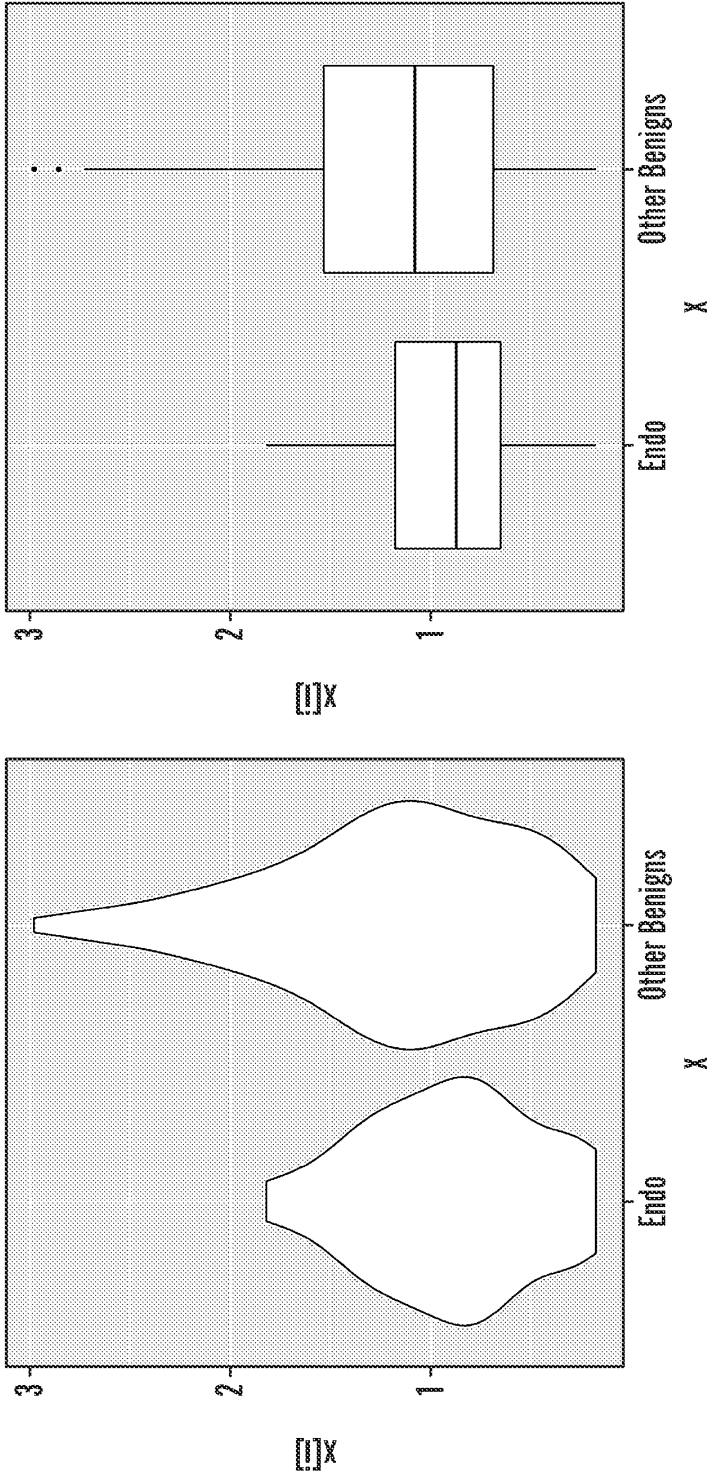


FIG. 28

Insulin like Growth Factor Binding Protein 4

I-Test P value:	7.93E-05
Anova P value	0.000303469

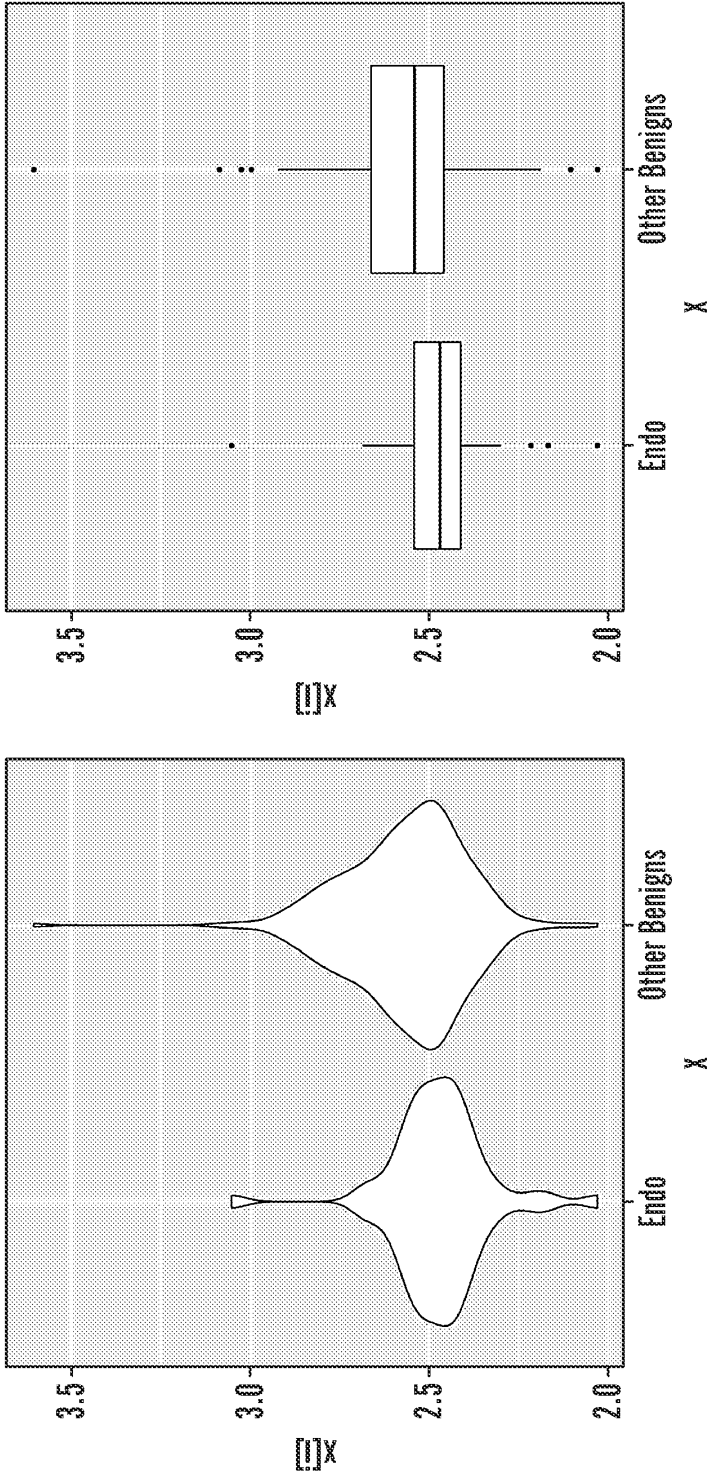


FIG. 29

Insulin like Growth Factor I

T-Test P value:	0.00555704
Anova P value	0.012697007

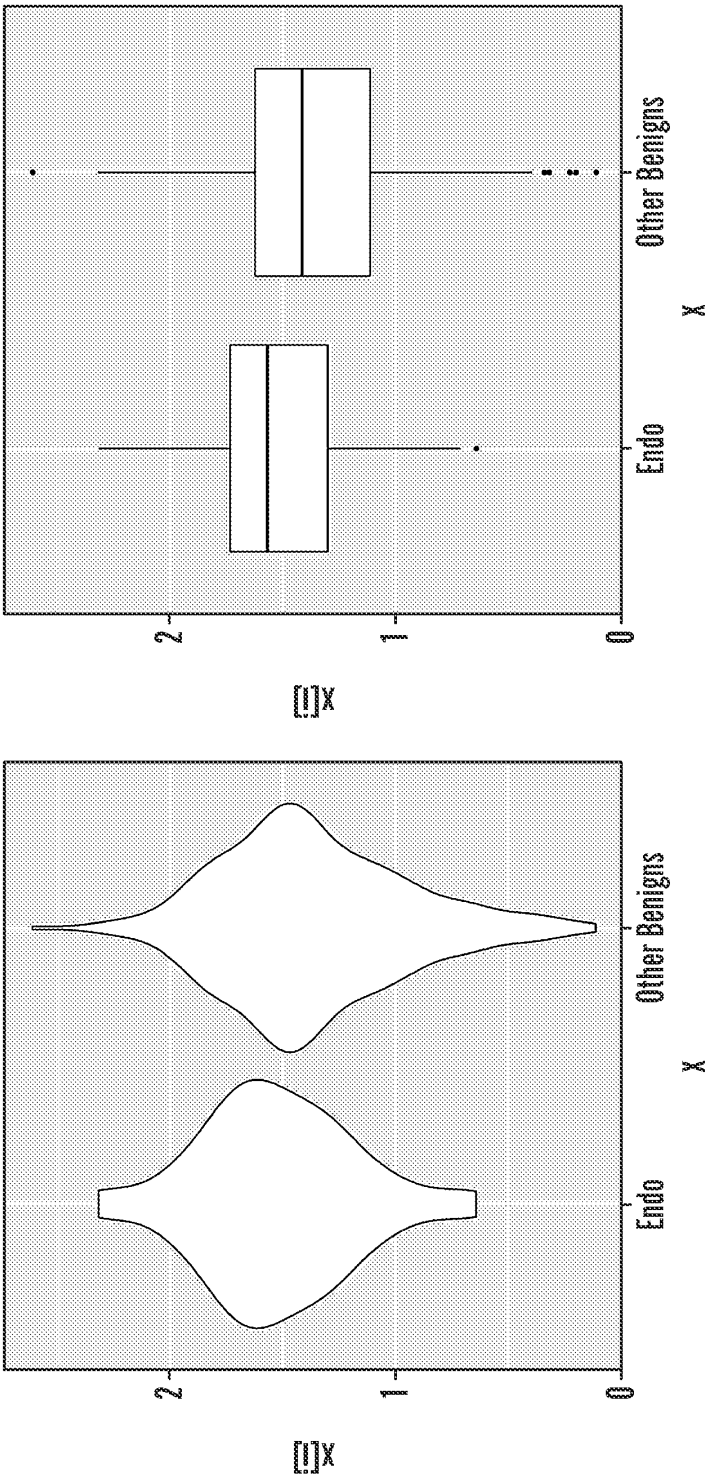


FIG. 30

Immunoglobulin M

I-Test P value:	0.000197569
Anova P value	0.000246332

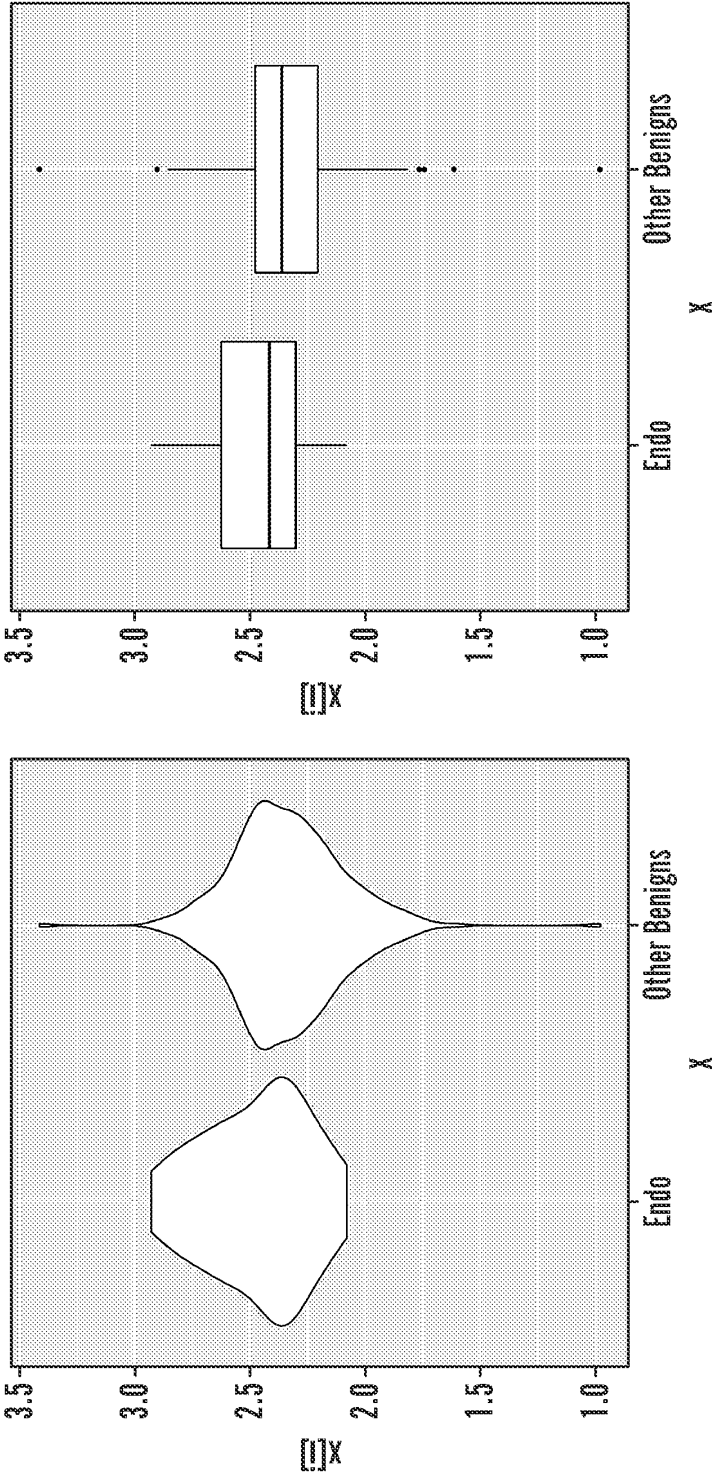


FIG. 31

Interleukin 8

I-Test P value:	0.006948129
Anova P value	0.005925486

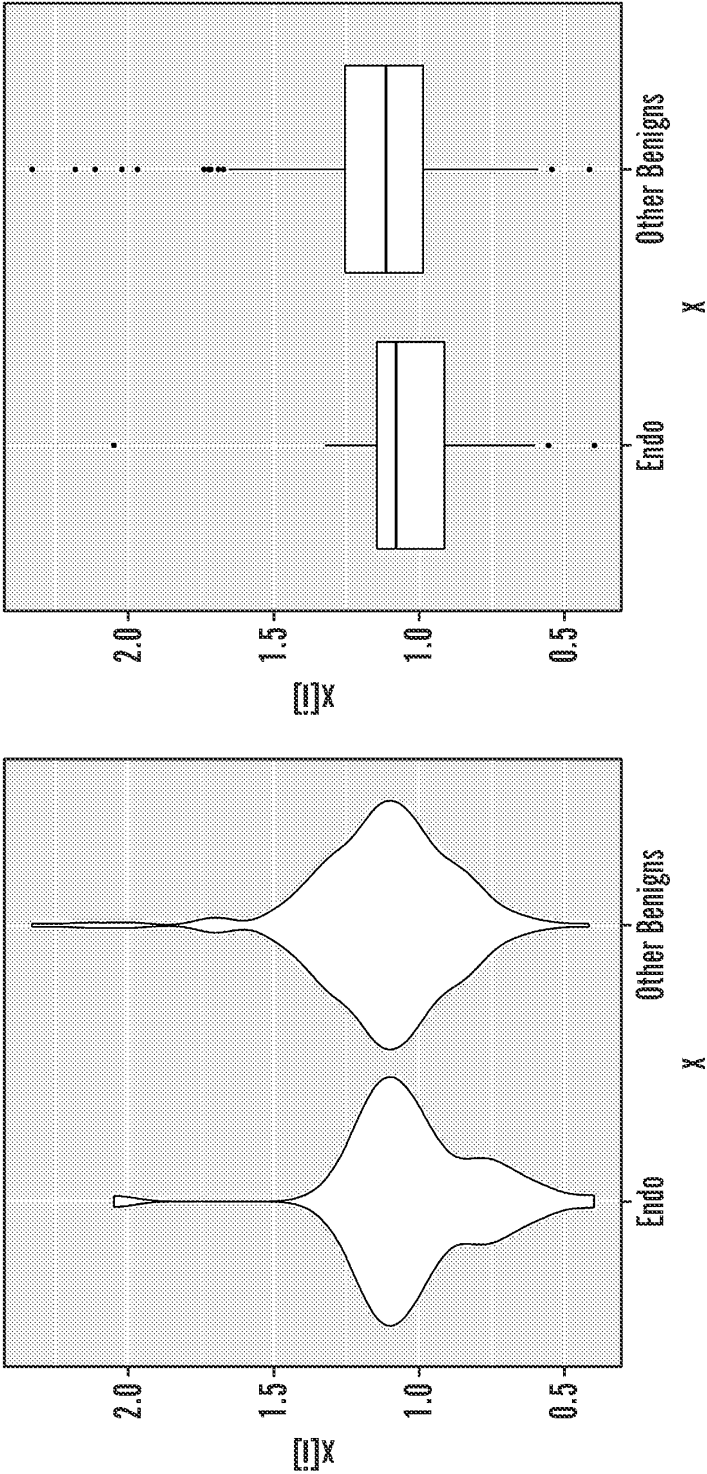


FIG. 32

Interferon gamma induced Protein 10

I-Test P value:	0.002864778
Anova P value	0.013197708

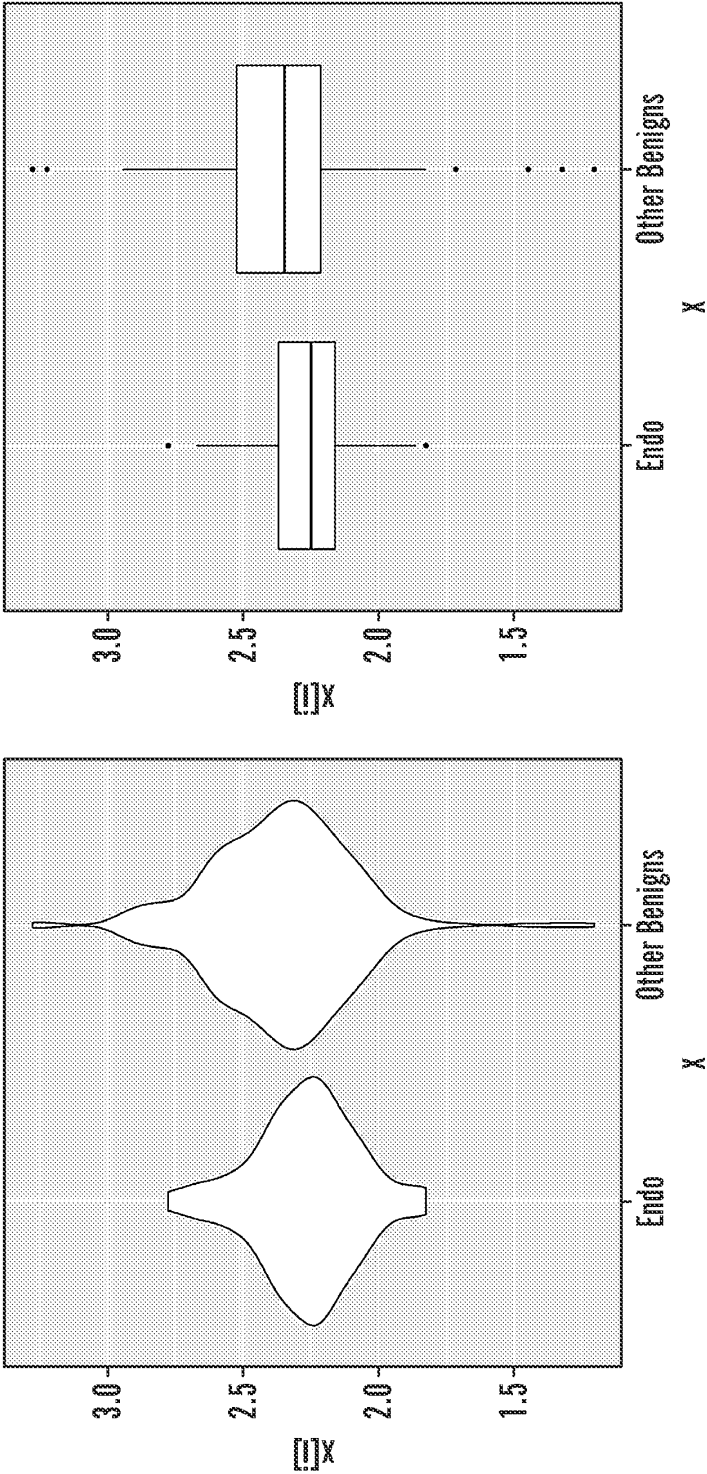


FIG. 33

Interferon inducible T cell alpha chemoattractant

T-Test P value:	0.014546449
Anova P value	0.008407845

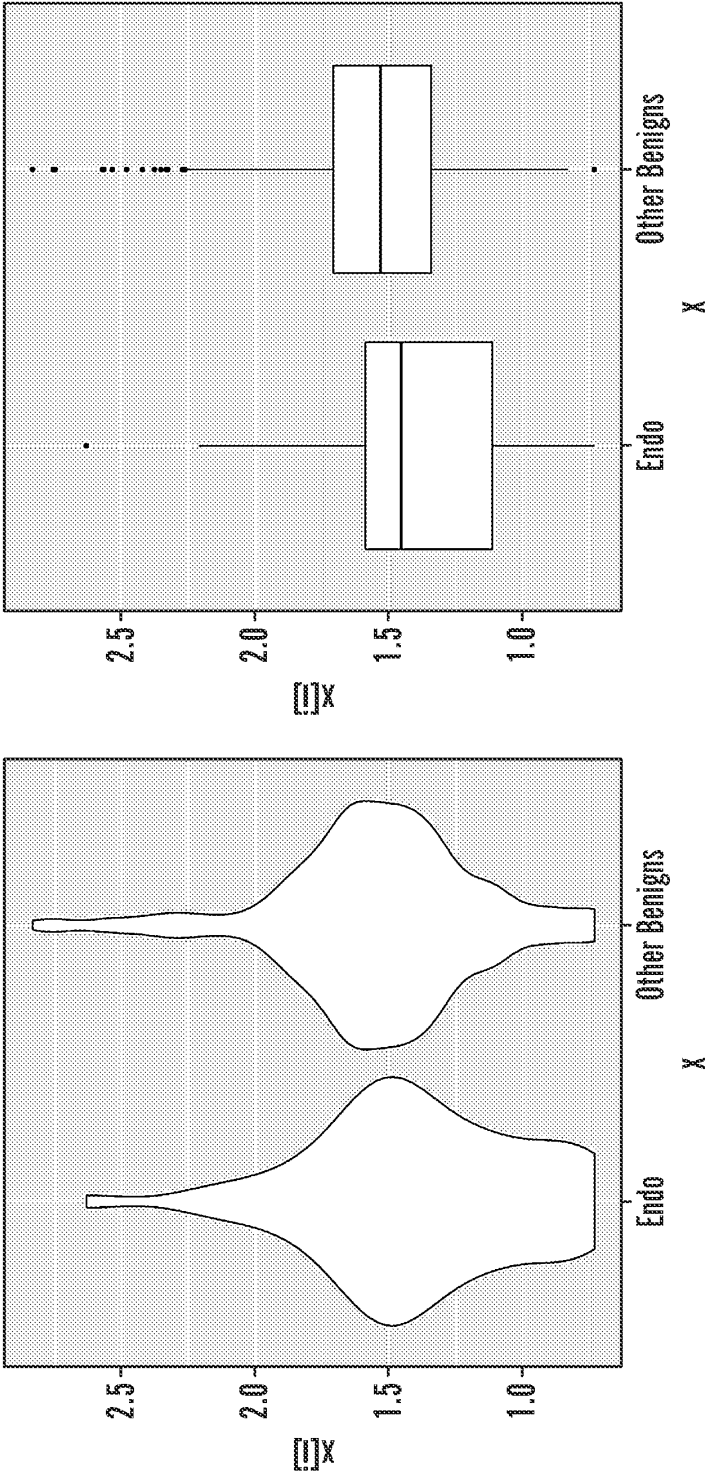


FIG. 34

Kalikrein 5

I-Test P value:	0.046583474
Anova P value	0.042409341

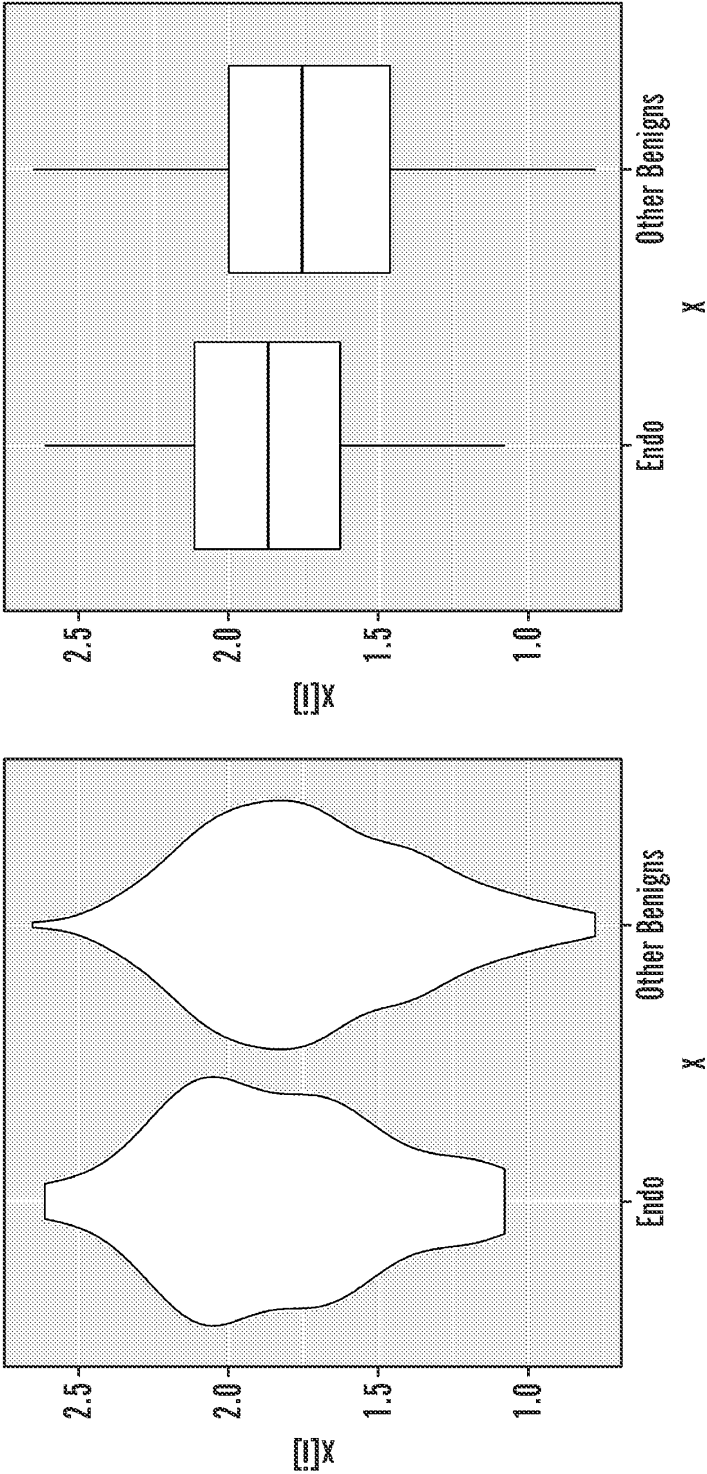


FIG. 35

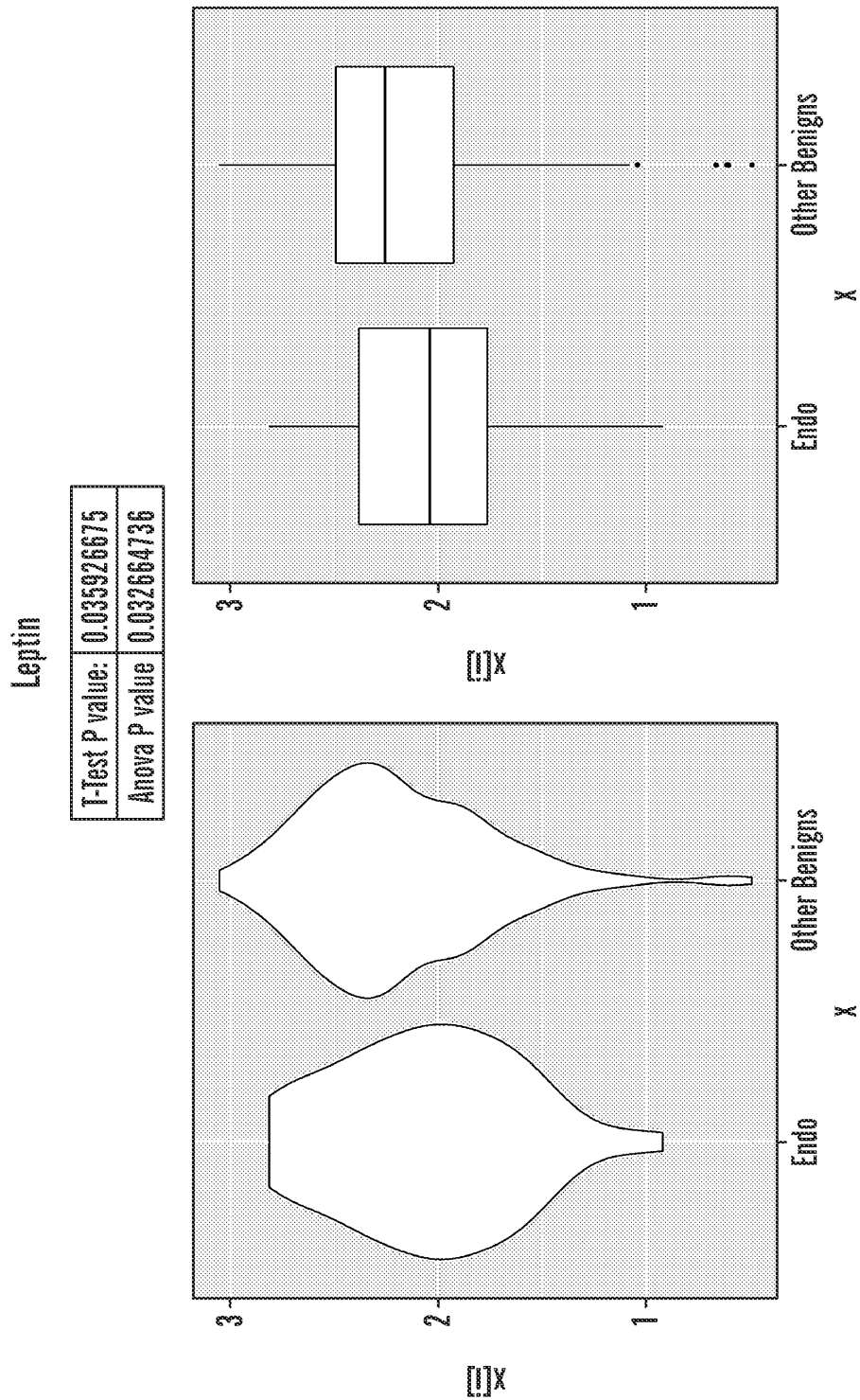


FIG. 36

Luteinizing Hormone

I-Test P value:	0.000299949
Anova P value	0.000514077

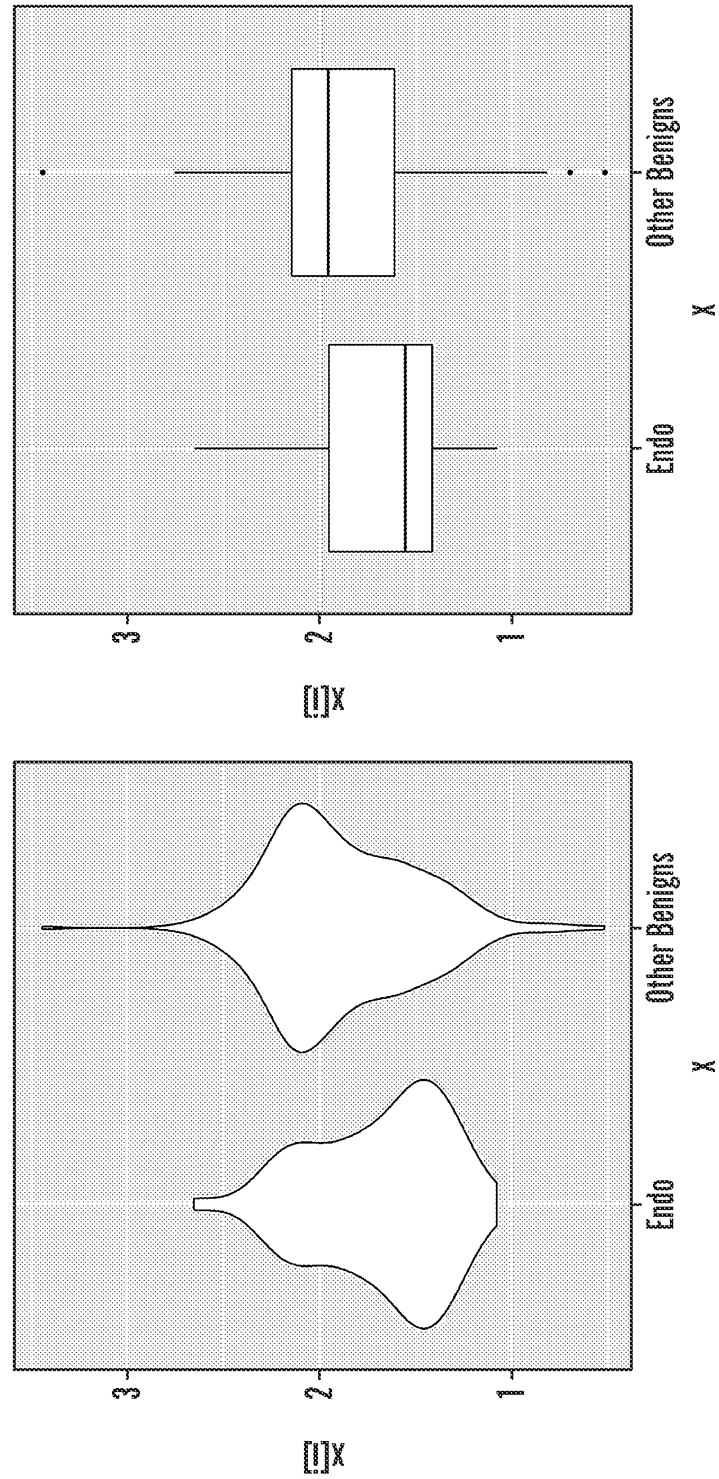


FIG. 37

Monocyte Chemotactic Protein 1

I-Test P value:	0.016118767
Anova P value	0.026274289

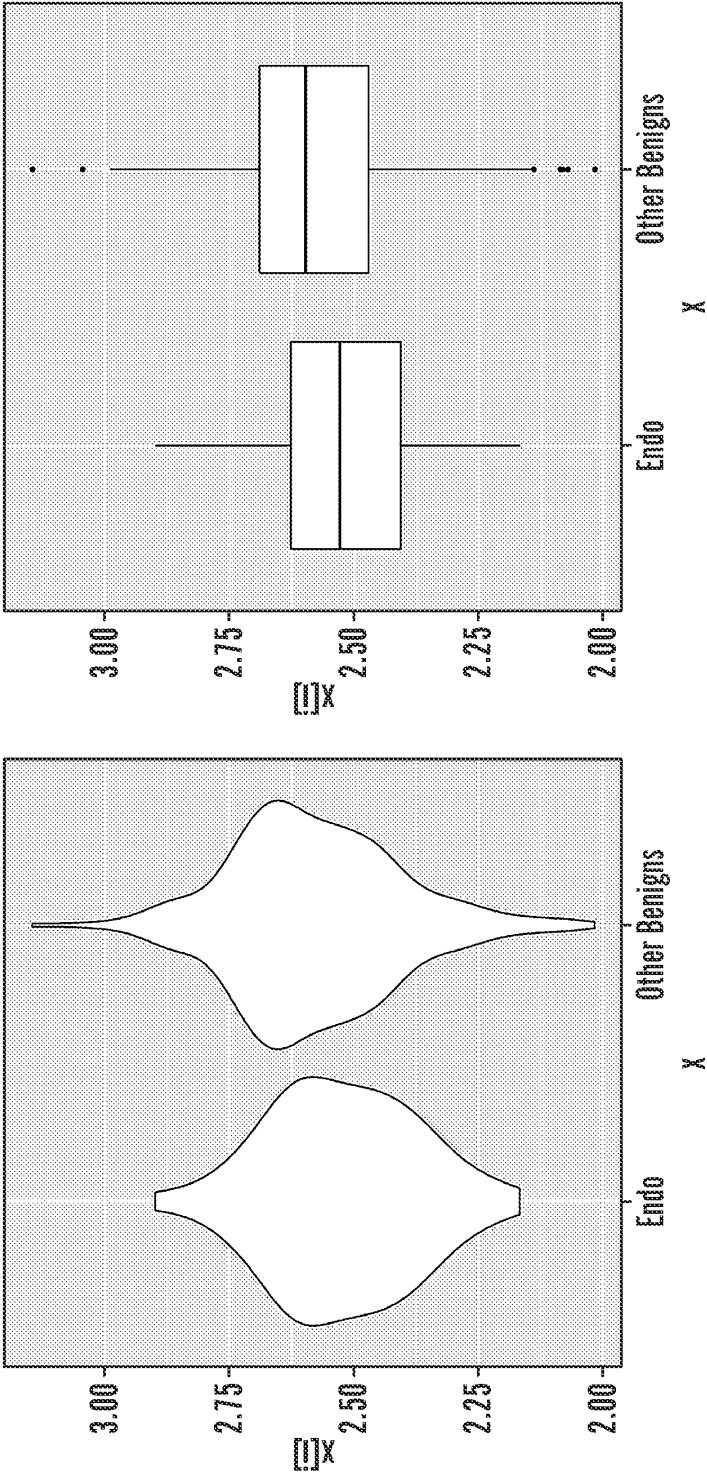


FIG. 38

Monocyte Chemotactic Protein 4

I-Test P value:	0.004779873
Anova P value	0.009492907

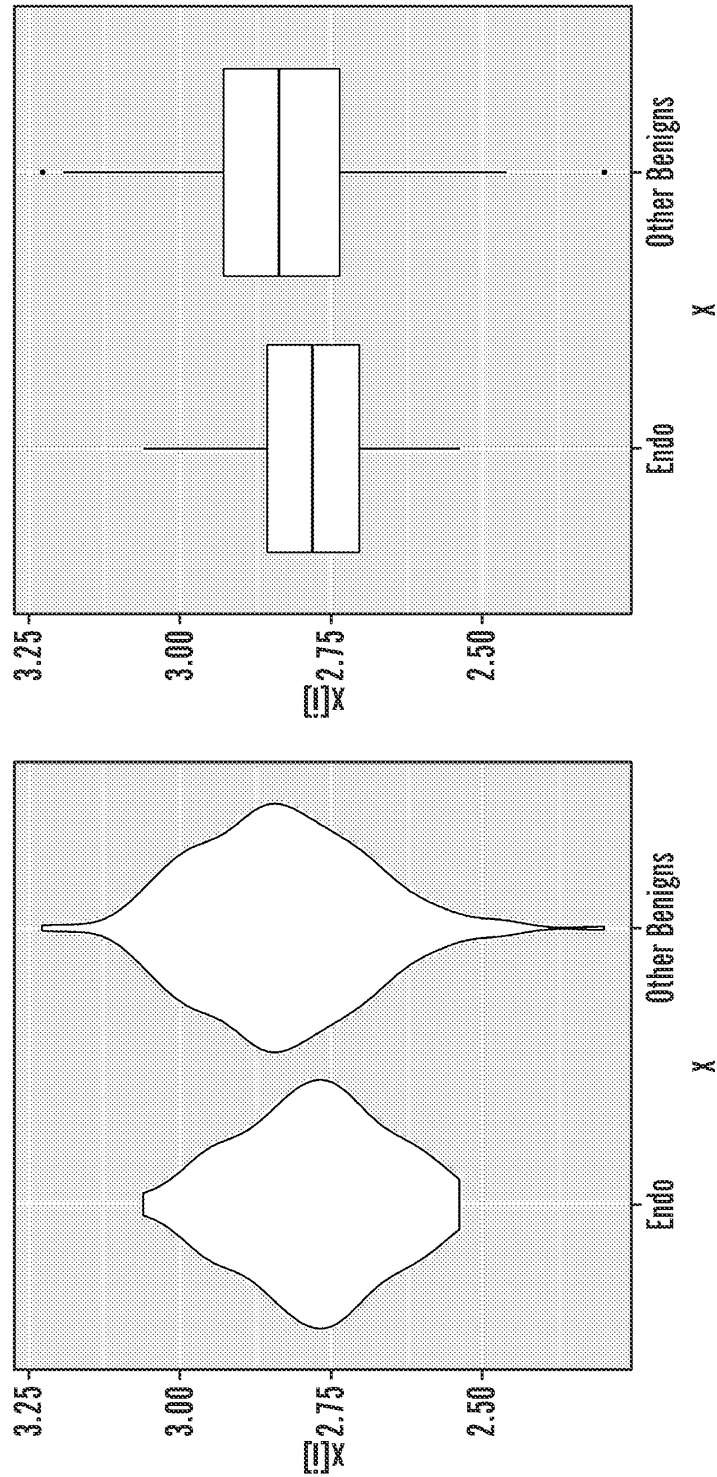


FIG. 39

Macrophage Derived Chemokine

T-Test P value:	0.000160439
Anova P value	0.00075816

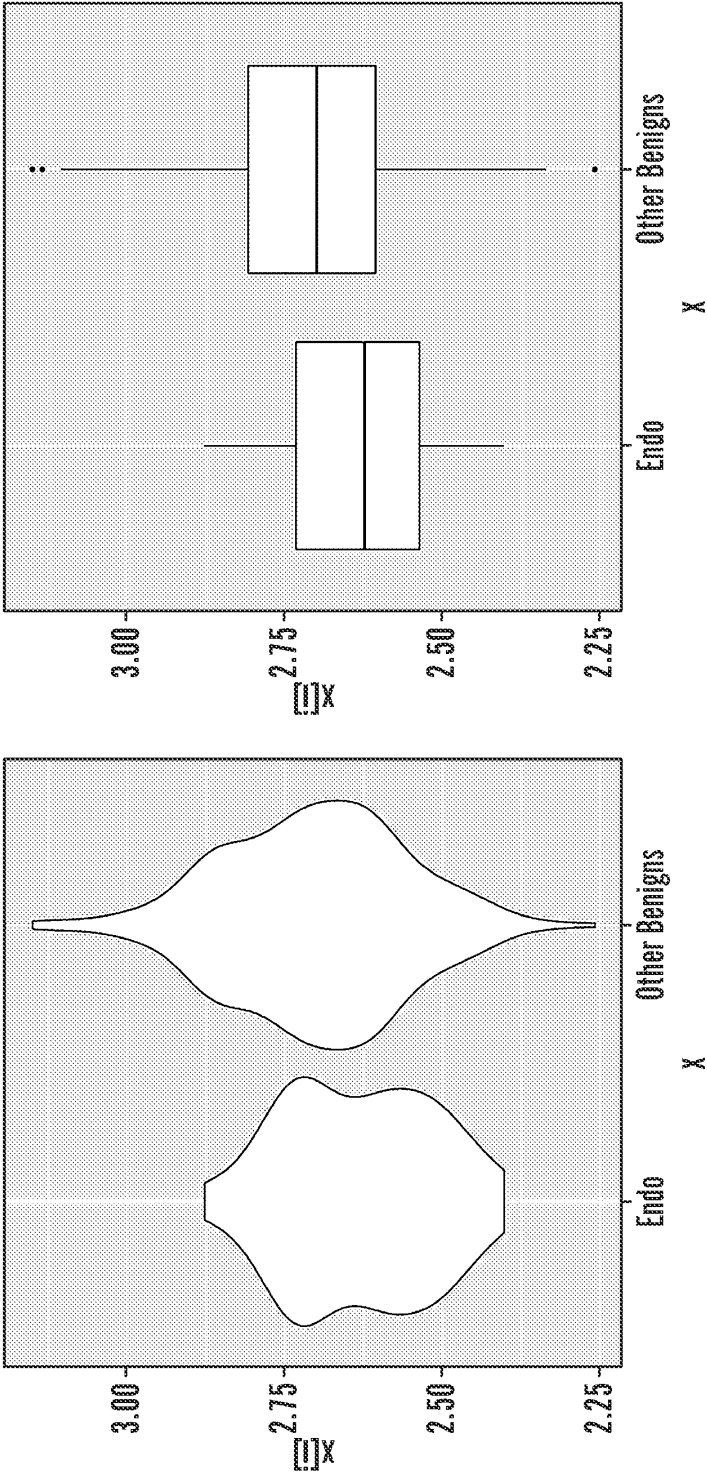


FIG. 40

Monokine Induced by Gamma Interferon

I-Test P value:	1.74E-05
Anova P value	0.000224771

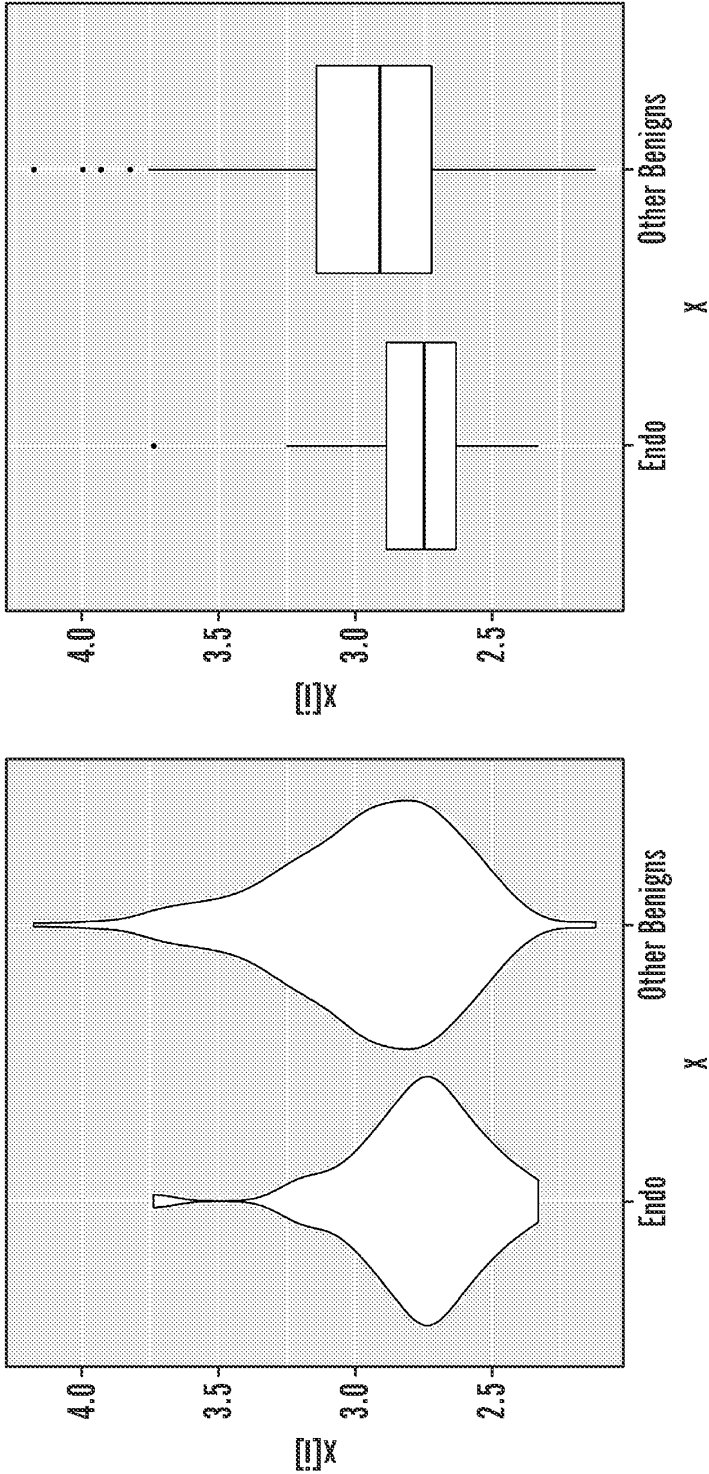


FIG. 41

Macrophage Inflammatory Protein 1 alpha

I-Test P value:	4.58E-05
Anova P value	0.004489255

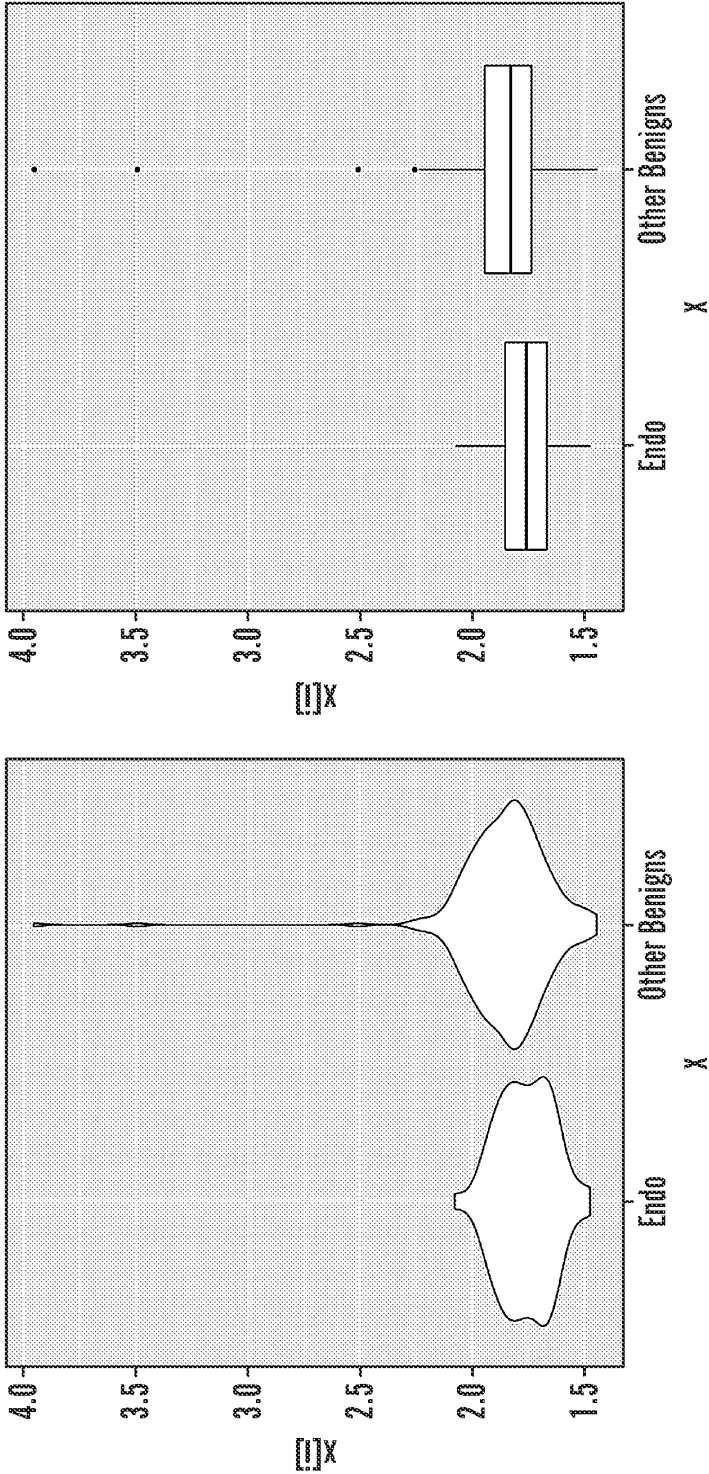


FIG. 42

Matrix Metalloproteinase 3

T-Test P value:	0.003018177
Anova P value	0.0110712

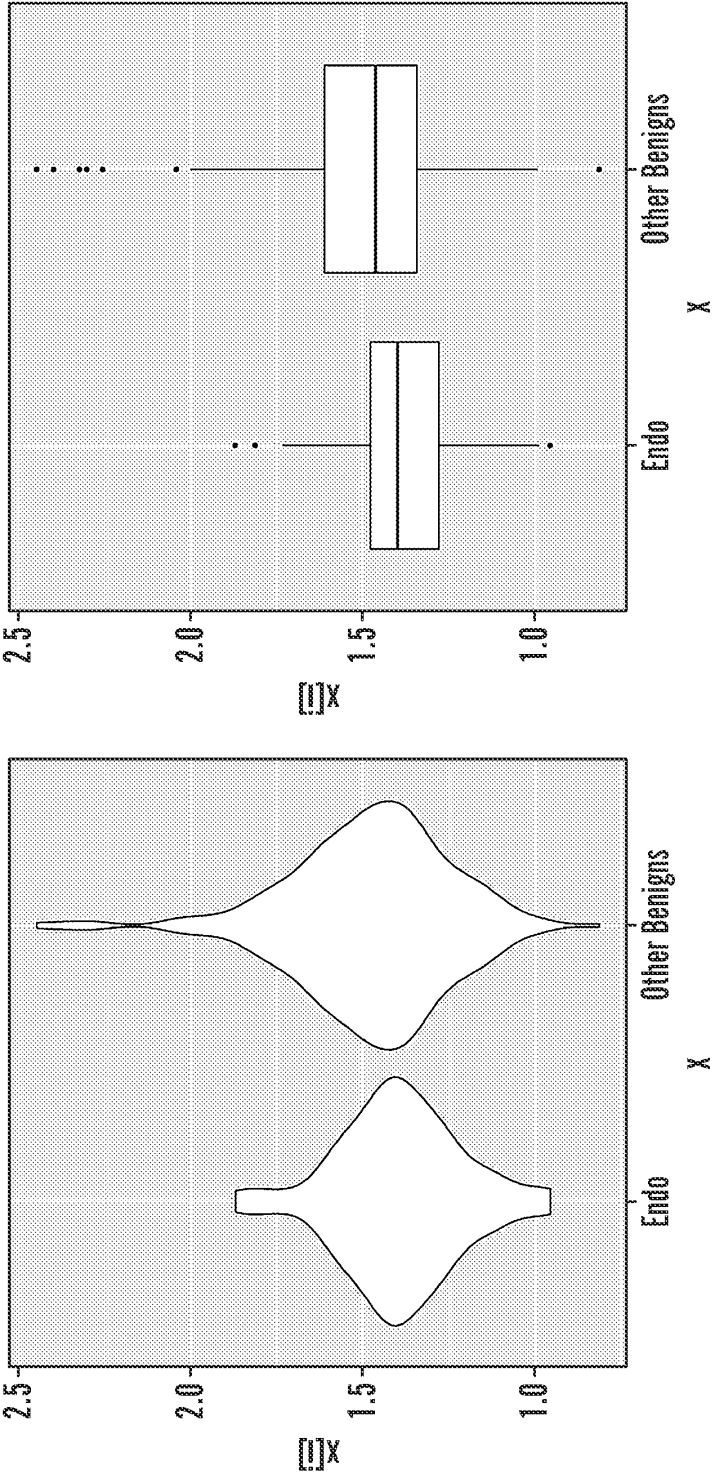


FIG. 43

Myoglobin

I-Test P value:	0.023334861
Anova P value	0.045711399

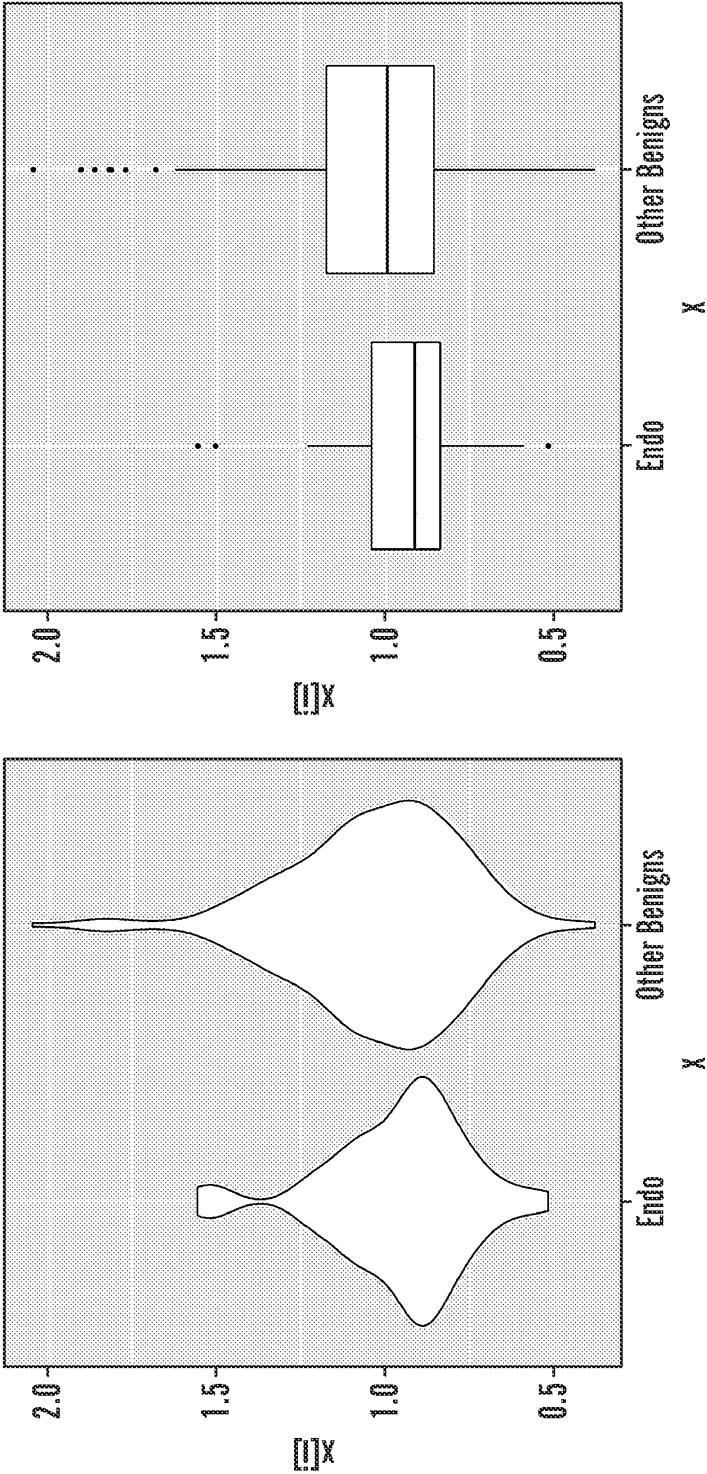


FIG. 44

N terminal prohormone of brain natriuretic peptide

I-Test P value:	0.018733342
Anova P value	0.038941406

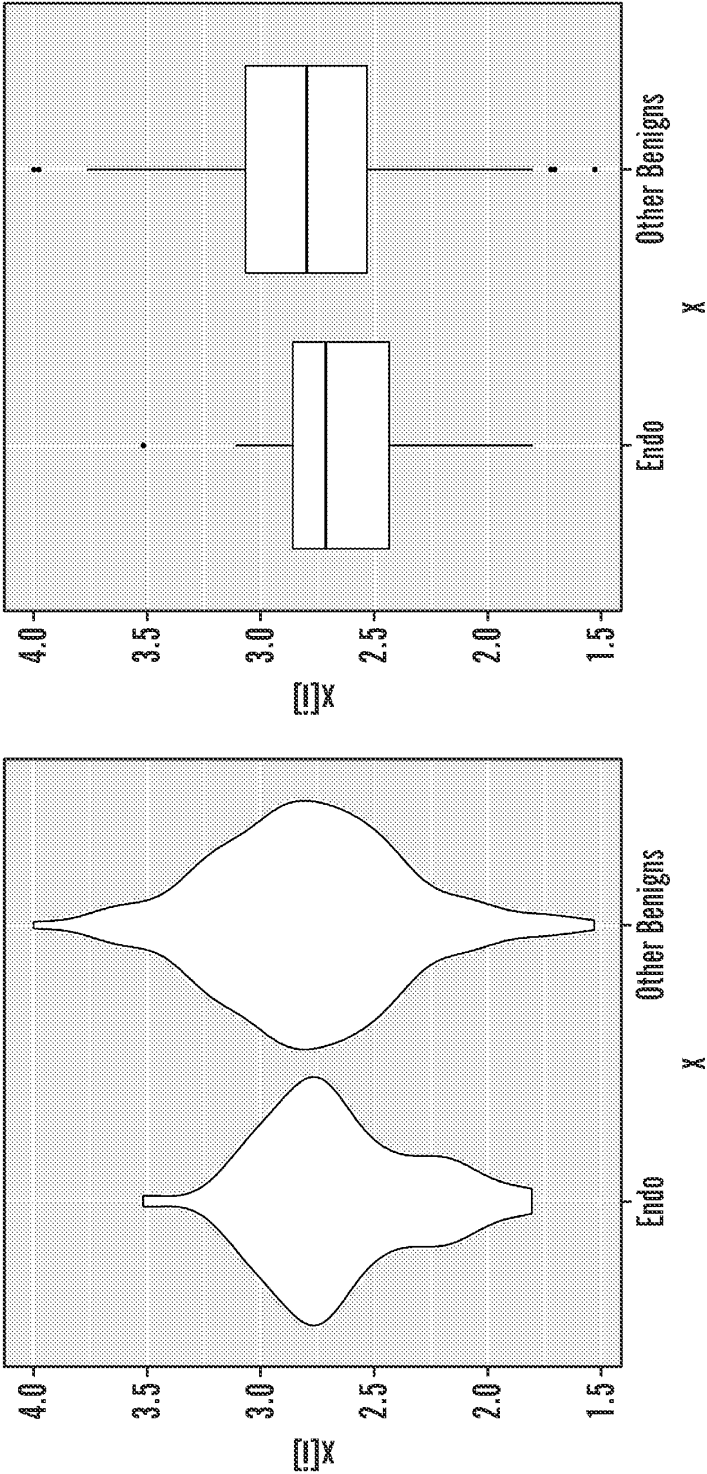


FIG. 45

Osteoprotegerin

I-Test P value:	5.92E-05
Anova P value	0.00083078

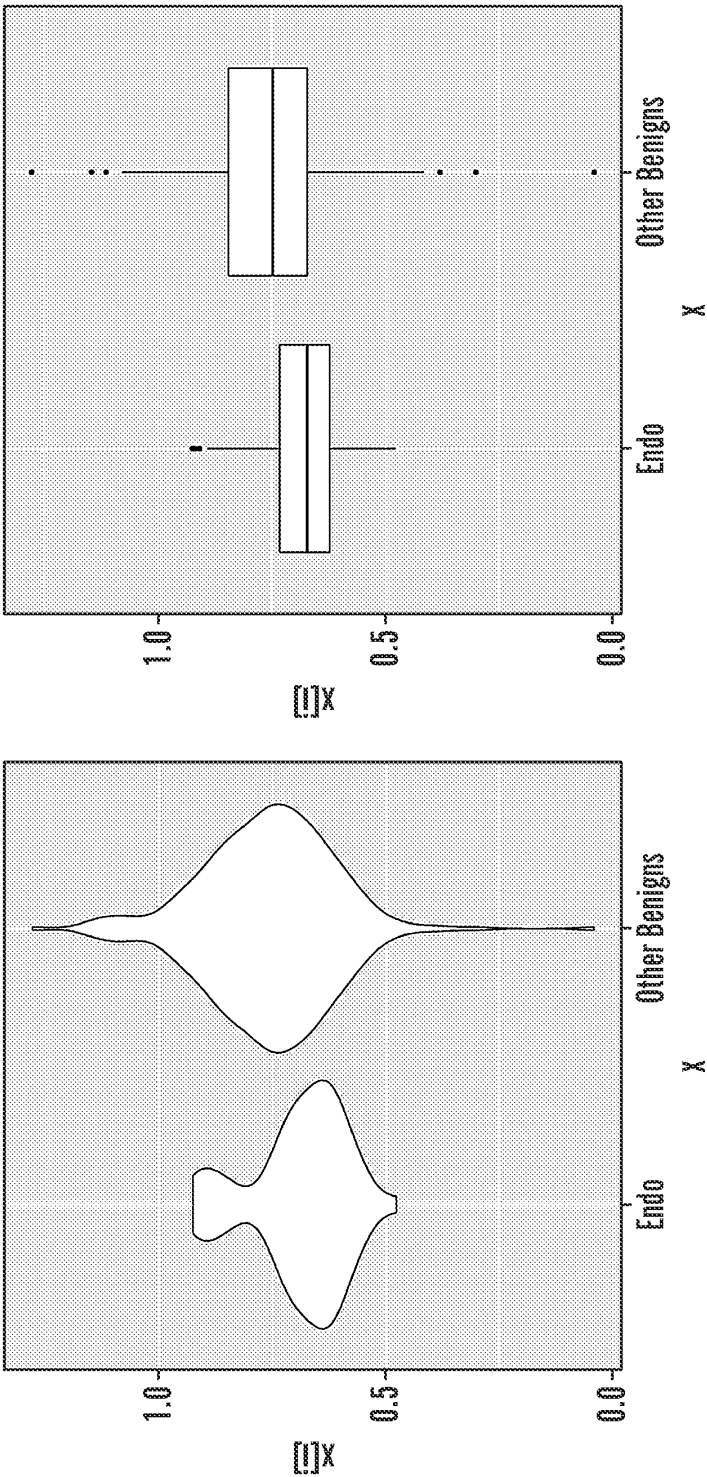


FIG. 46

Pulmonary and Activation Regulated Chemokine

I-Test P value:	0.007626677
Anova P value	0.015178076

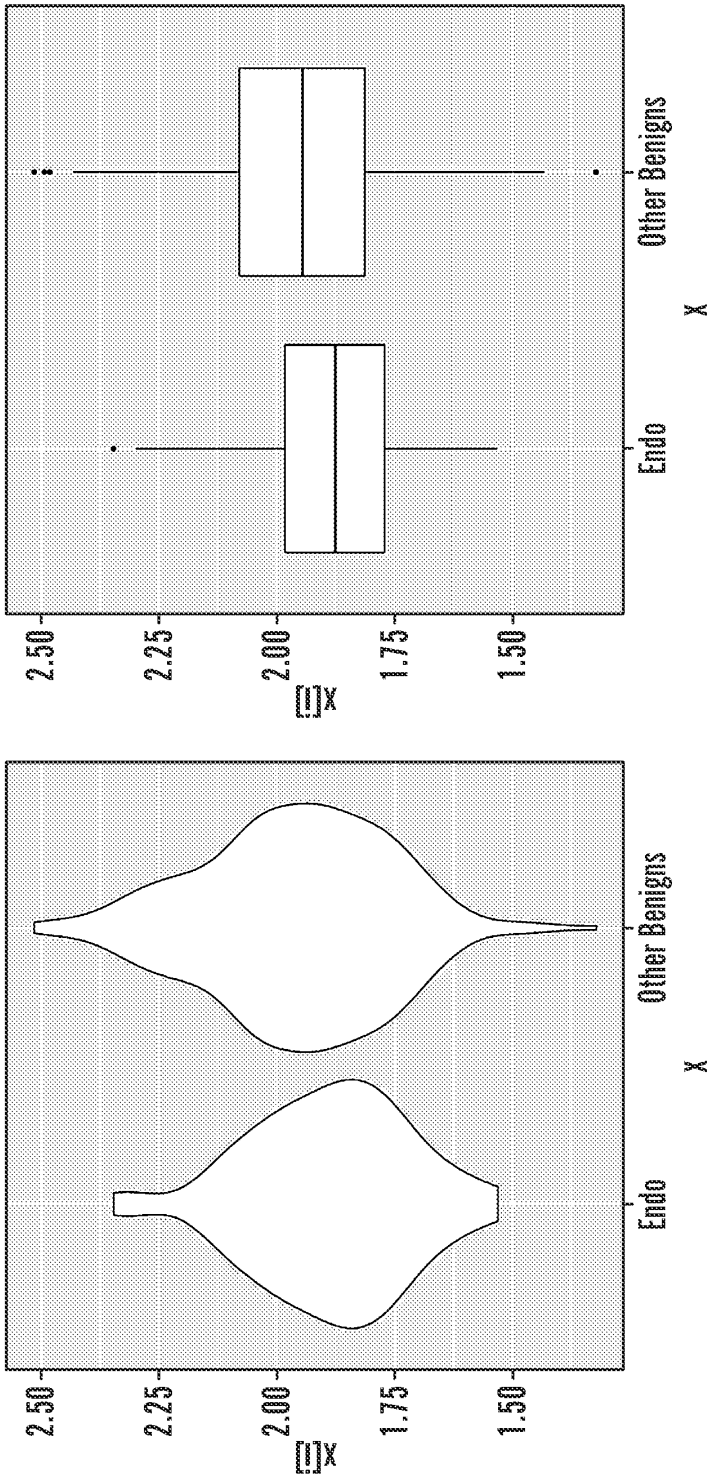


FIG. 47

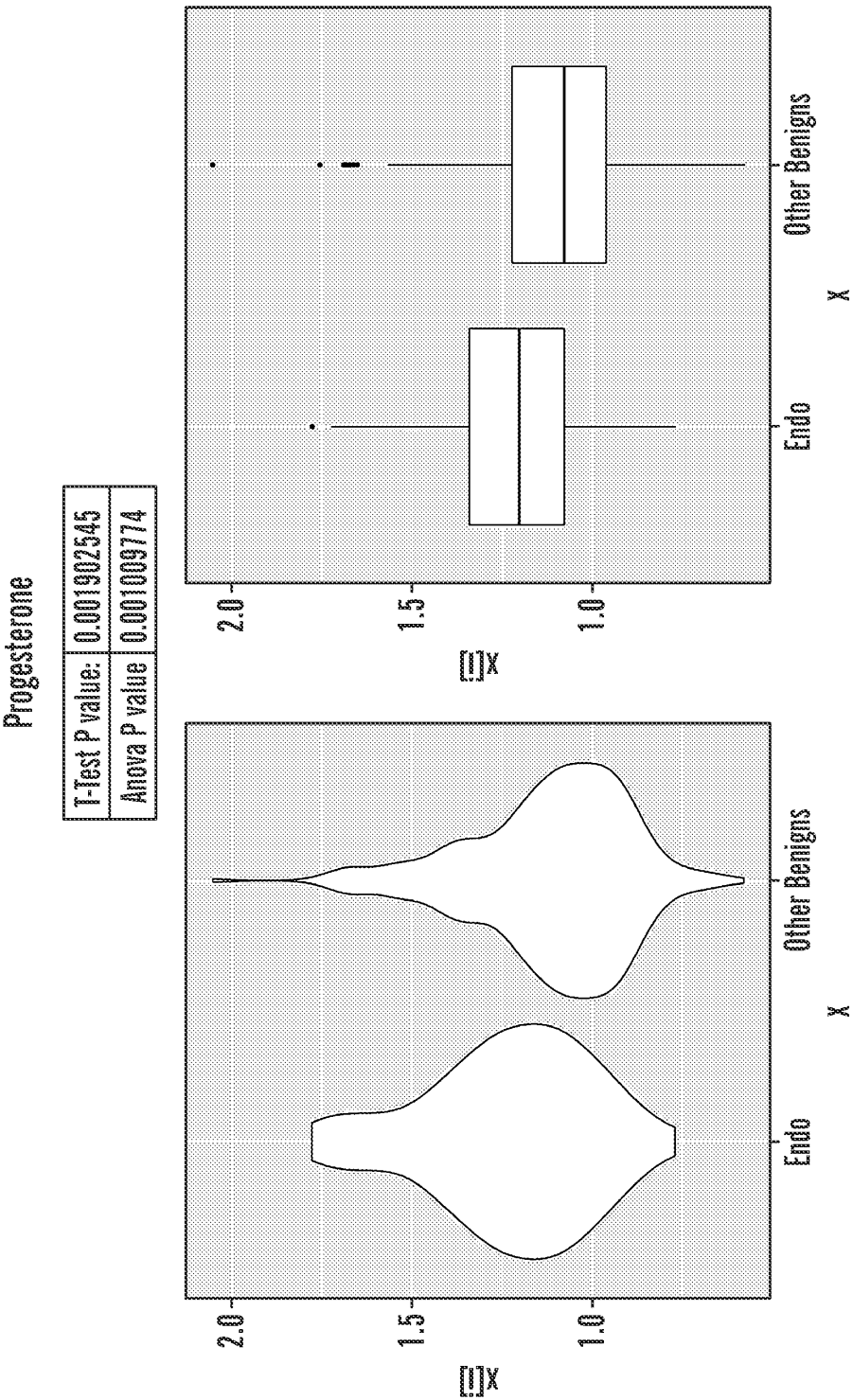


FIG. 48

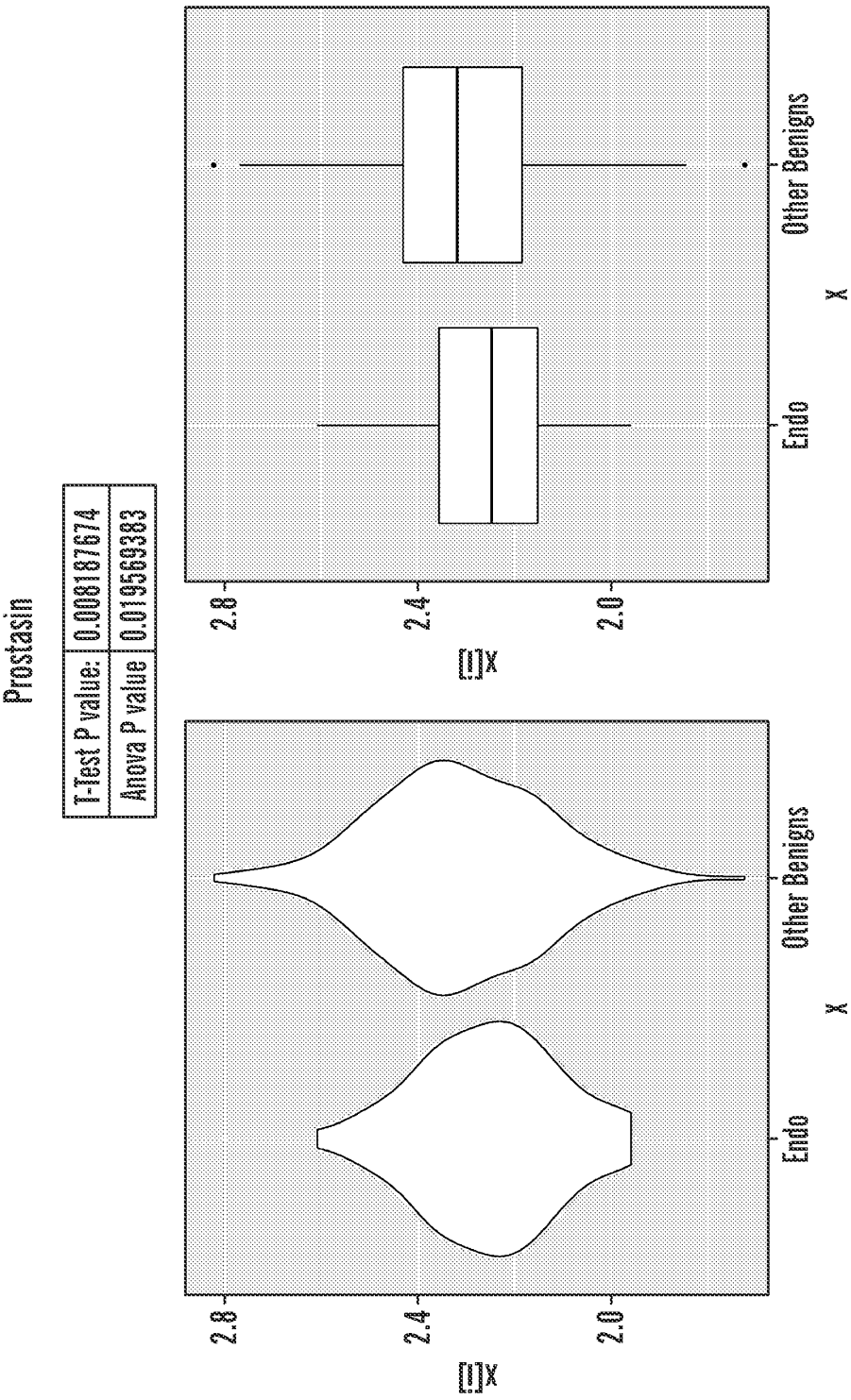


FIG. 49

Phosphoserine Aminotransferase

I-Test P value:	0.0020895
Anova P value	0.005440518

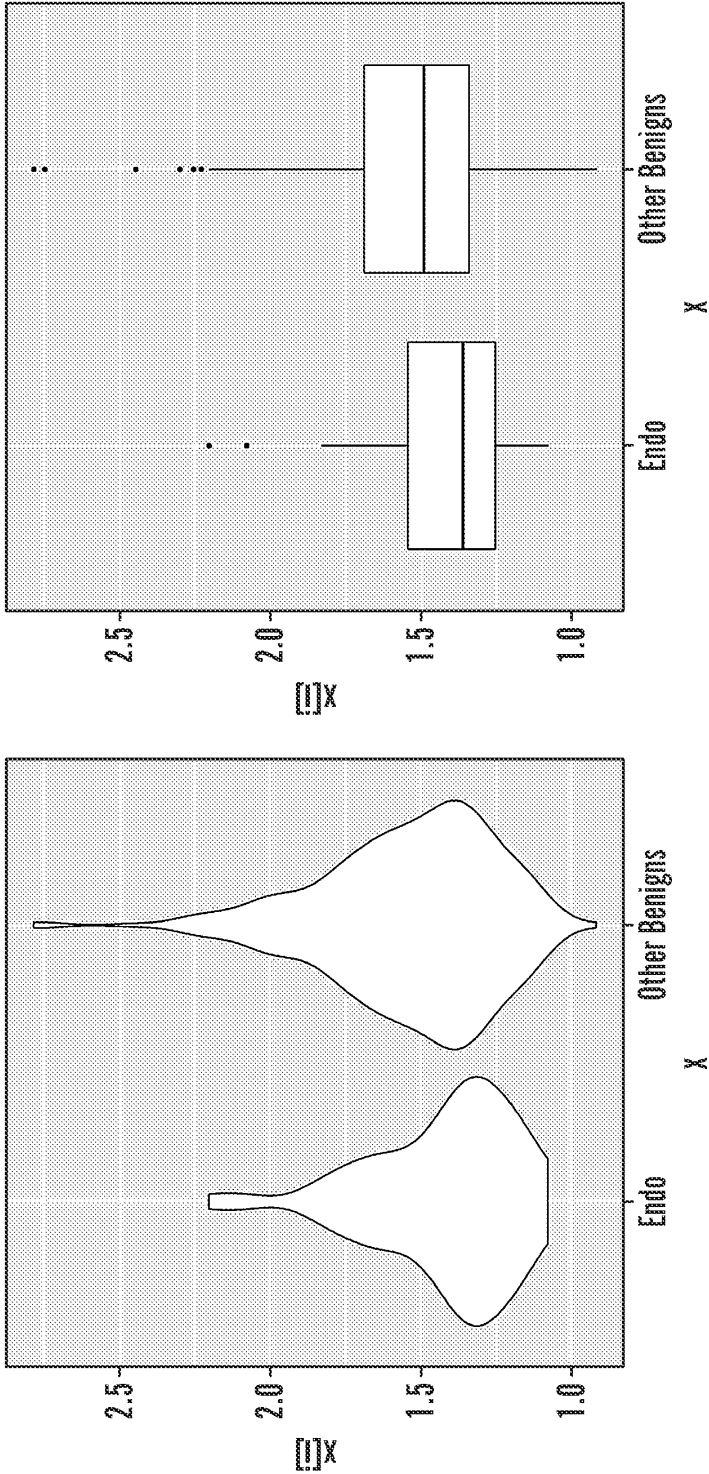


FIG. 50

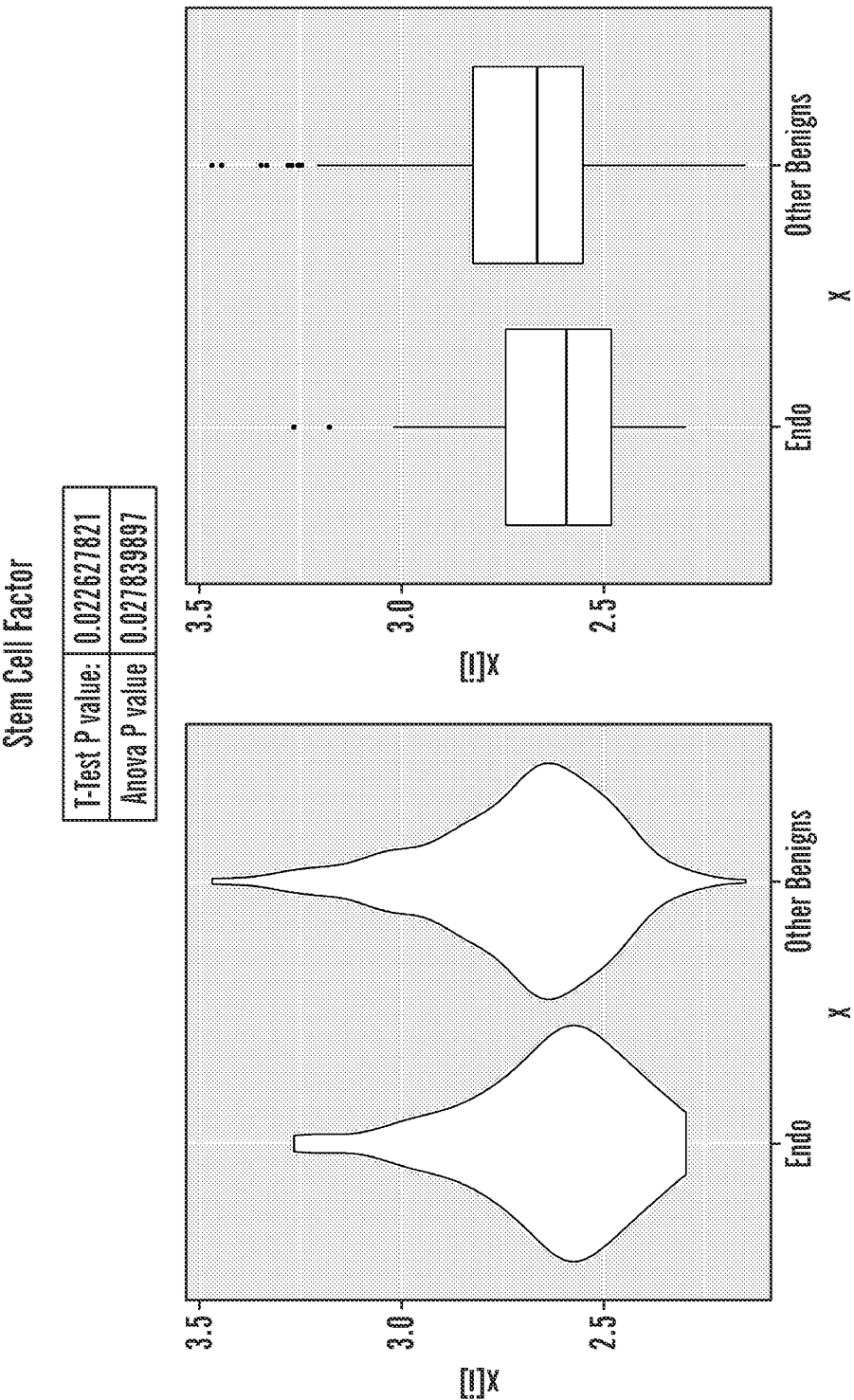


FIG. 51

Thymus Expressed Chemokine

T-Test P value:	0.001503438
Anova P value	0.00184837

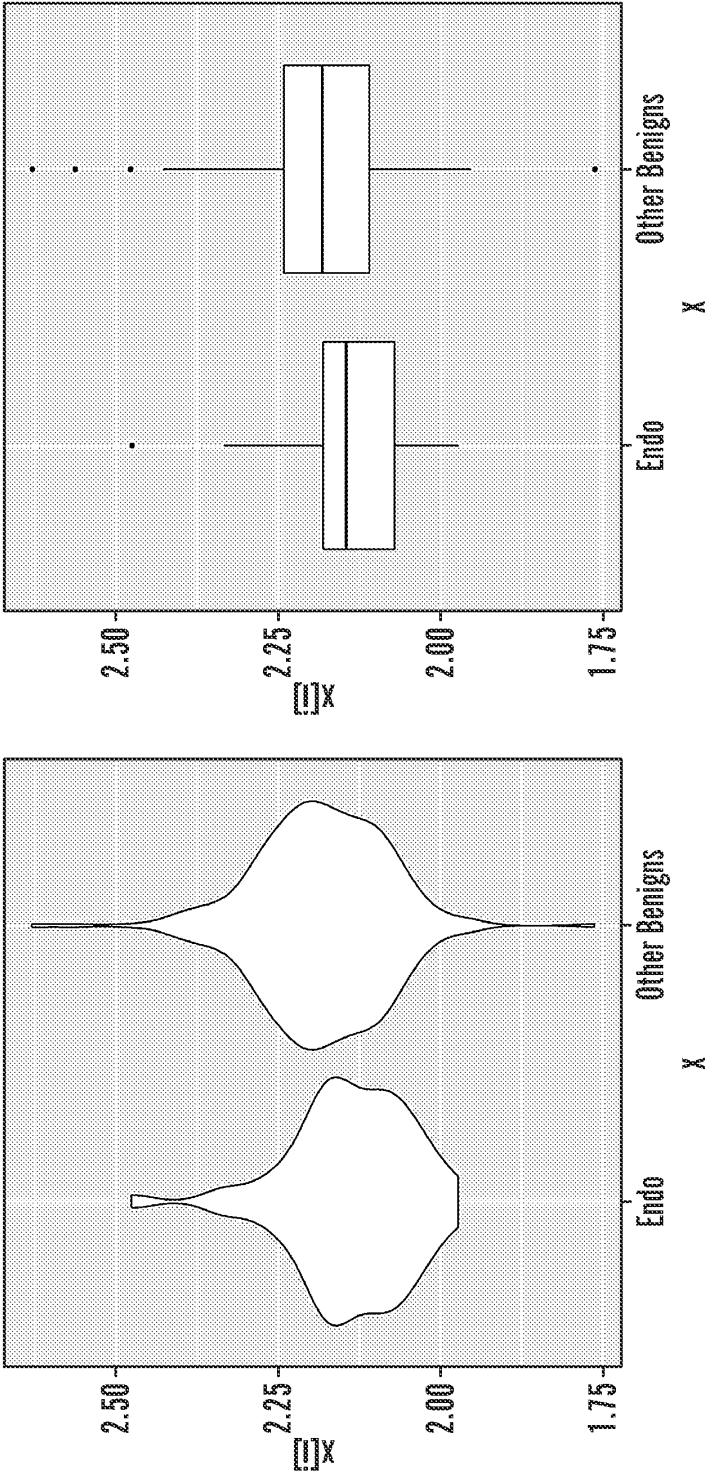


FIG. 52

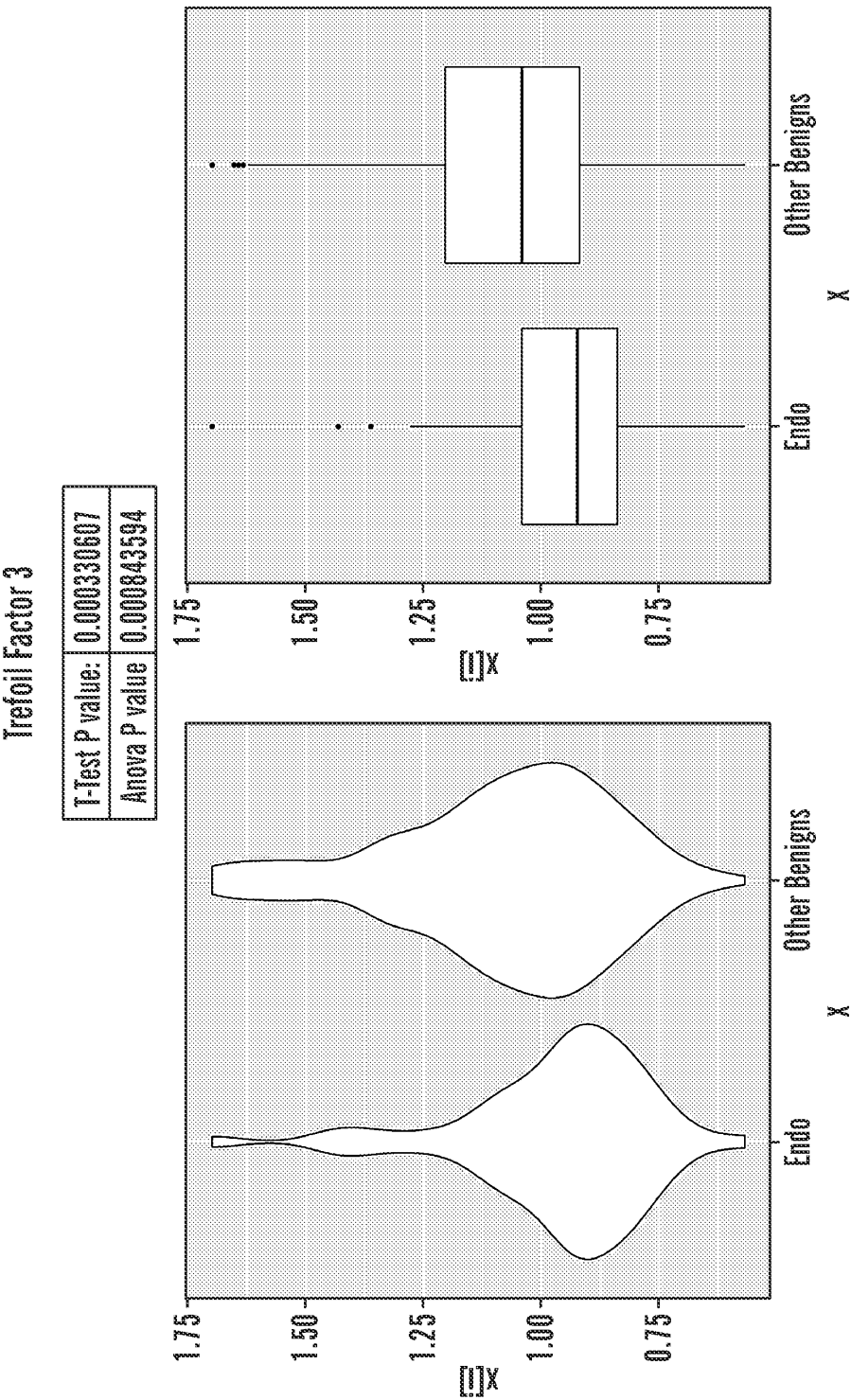


FIG. 53

Tumor Necrosis Factor alpha

T-Test P value:	0.014204554
Anova P value	0.022421615

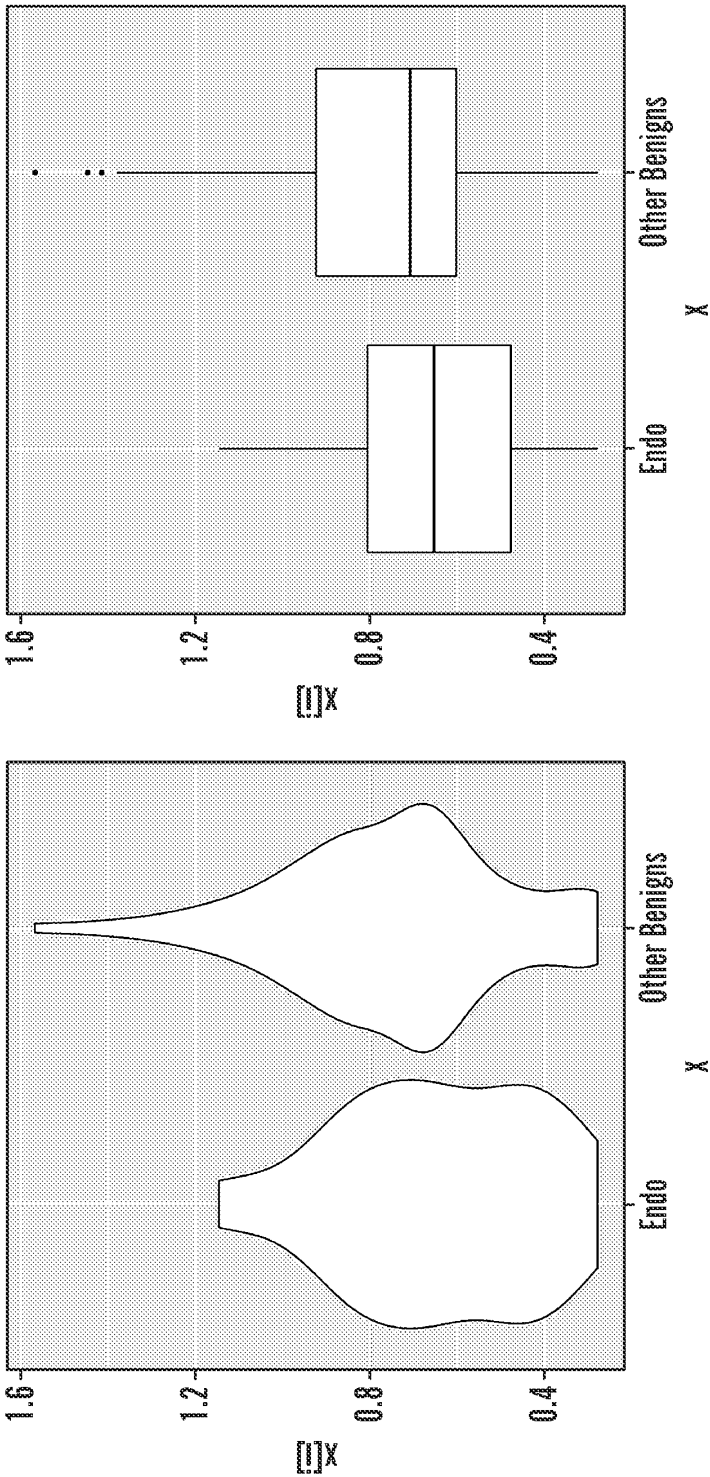


FIG. 54

Tumor Necrosis Factor Receptor 1

I-Test P value:	0.014381343
Anova P value	0.019132748

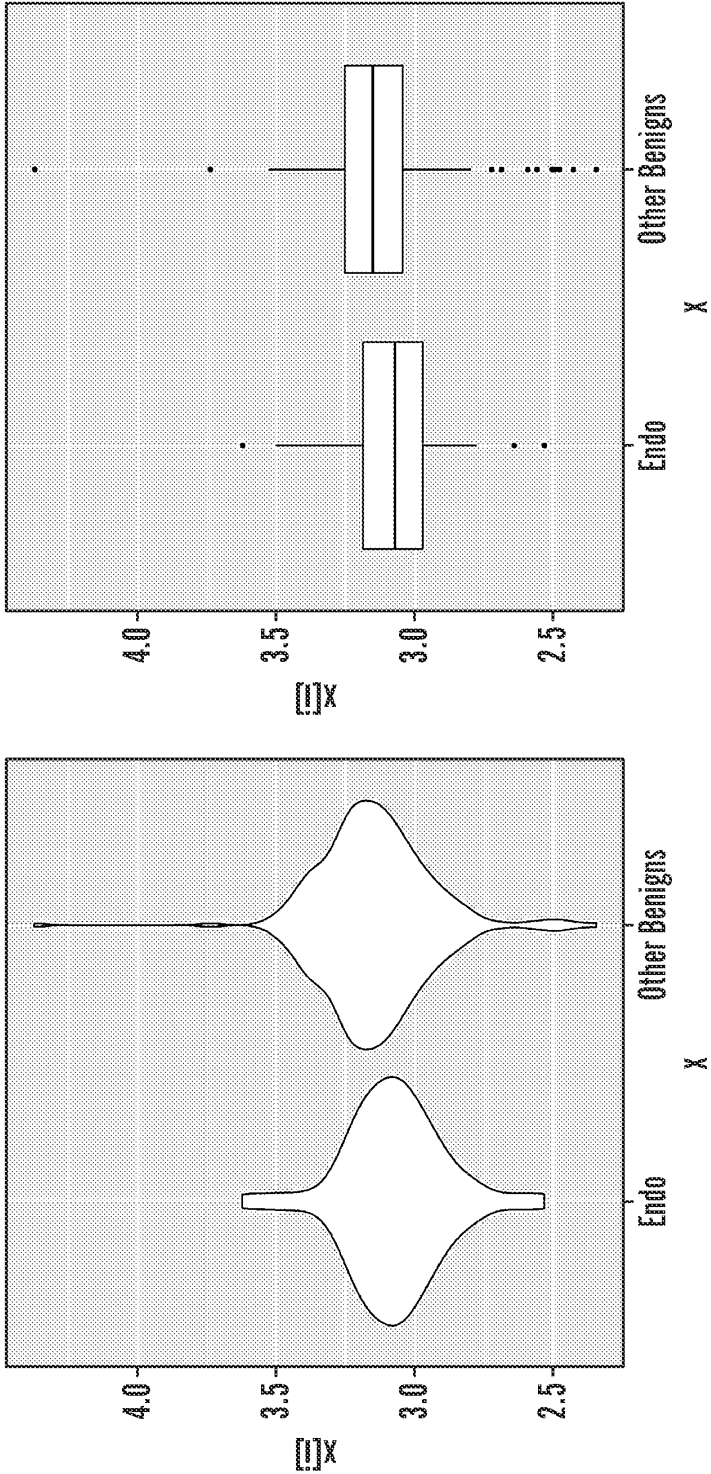


FIG. 55

Tumor Necrosis Factor Receptor 2

I-Test P value:	0.003319735
Anova P value	0.007034832

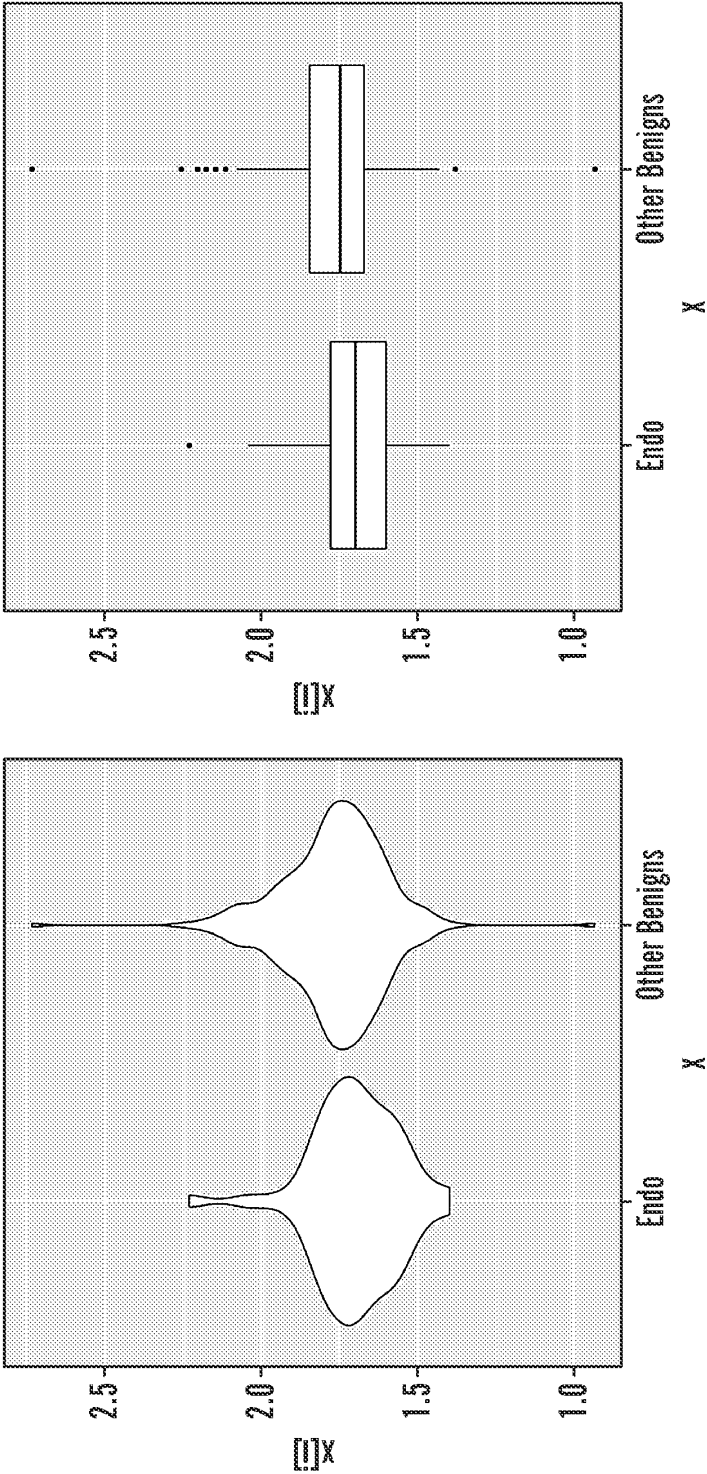


FIG. 56

Tissue type Plasminogen activator

I-Test P value:	0.008082804
Anova P value	0.012875445

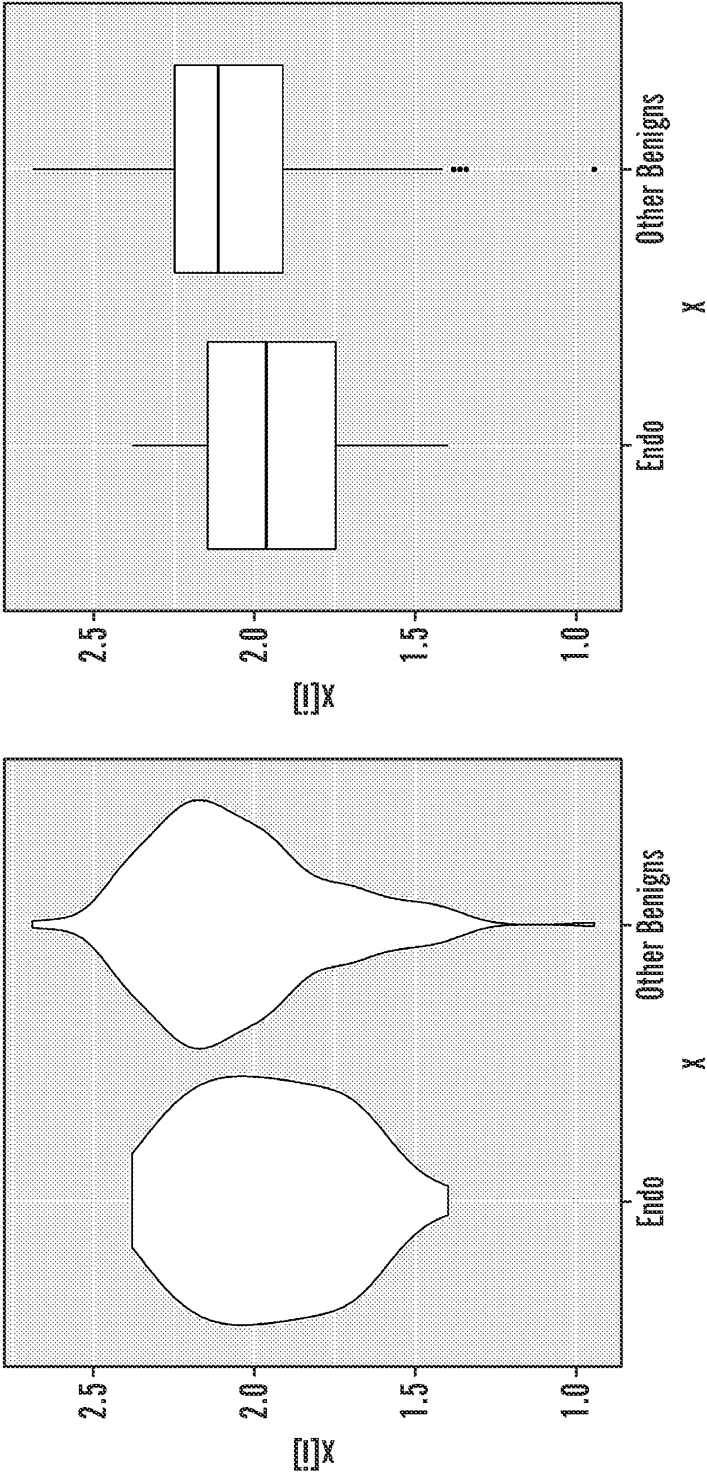


FIG. 57

Urokinase type Plasminogen Activator

I-Test P value:	0.037000092
Anova P value	0.033024437

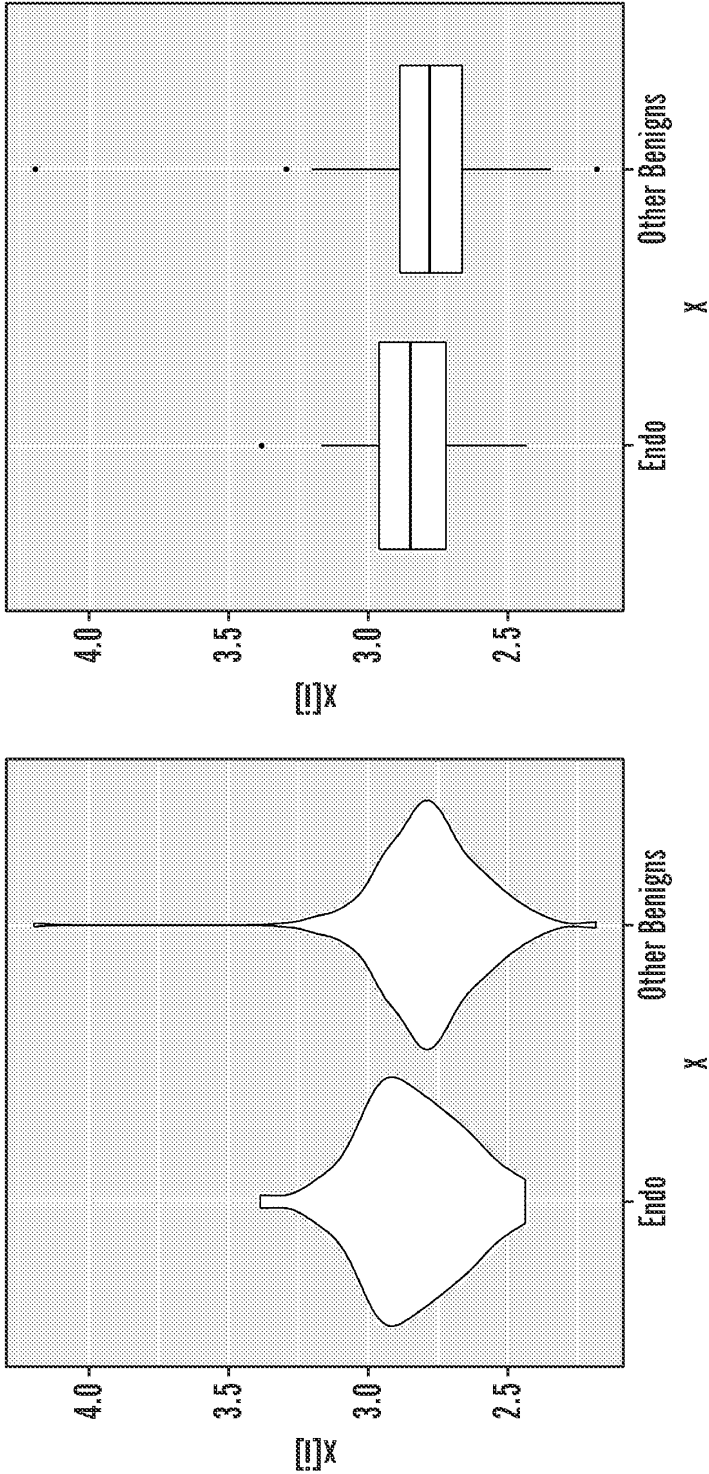


FIG. 58

Urokinase type Plasminogen Activator Receptor

I-Test P value:	0.010920432
Anova P value	0.018960524

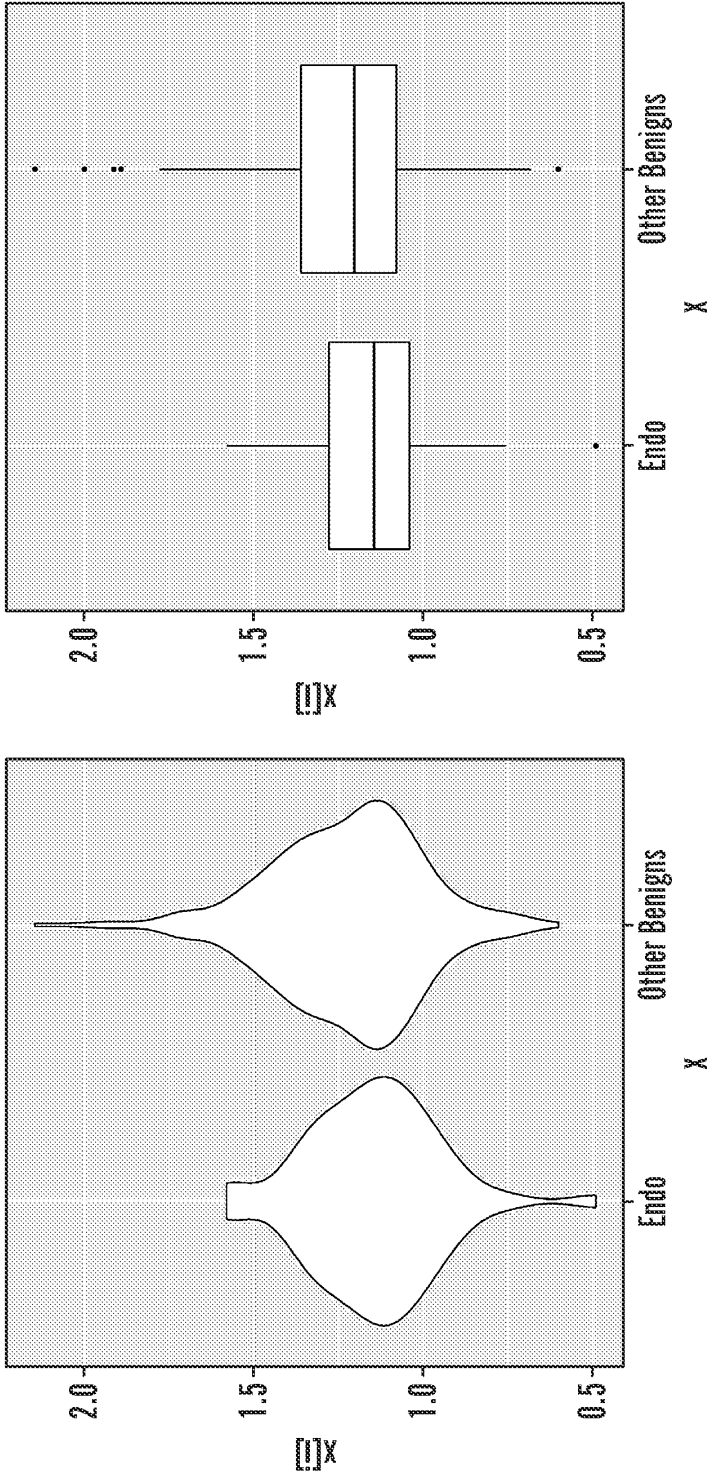


FIG. 59

Vascular Endothelial Growth Factor

I-Test P value:	0.009310391
Anova P value	0.01230176

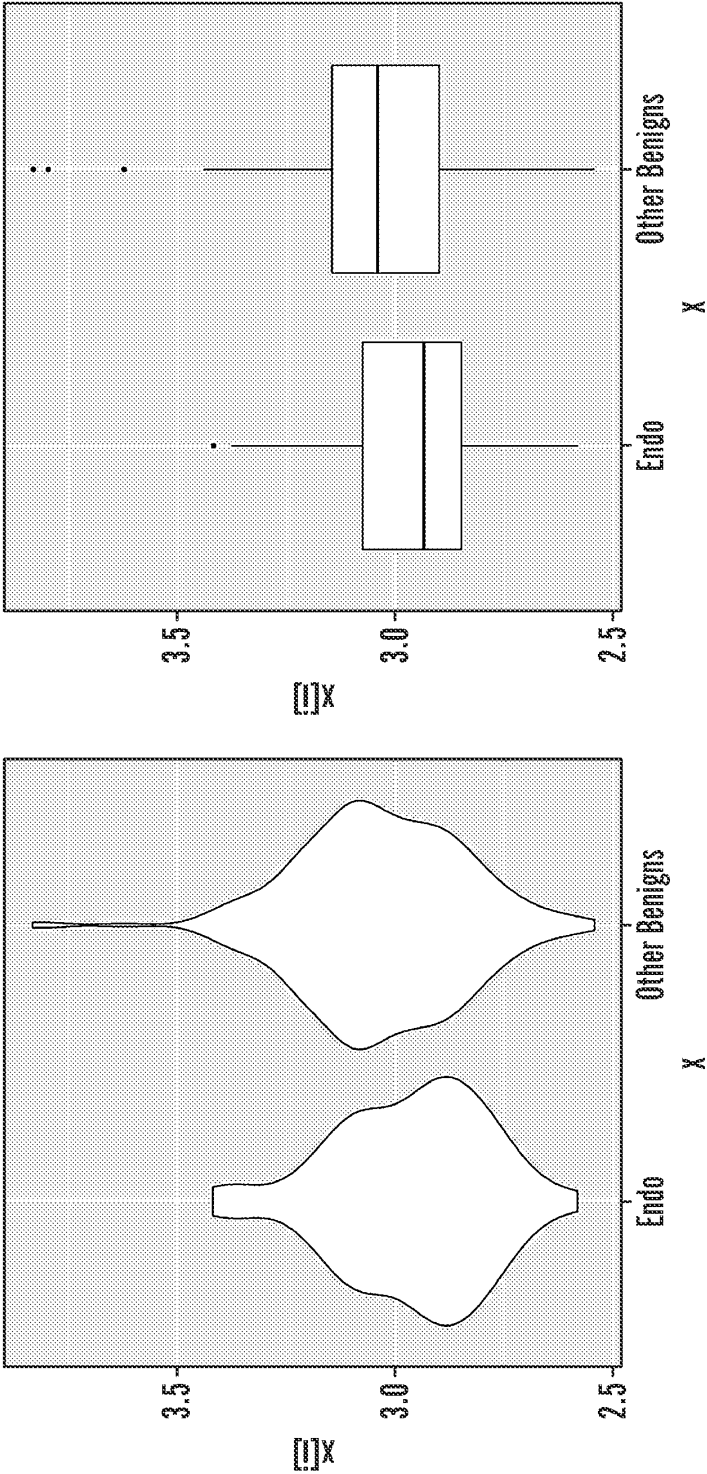


FIG. 60

von Willebrand Factor

I-Test P value:	0.001147826
Anova P value	0.006816804

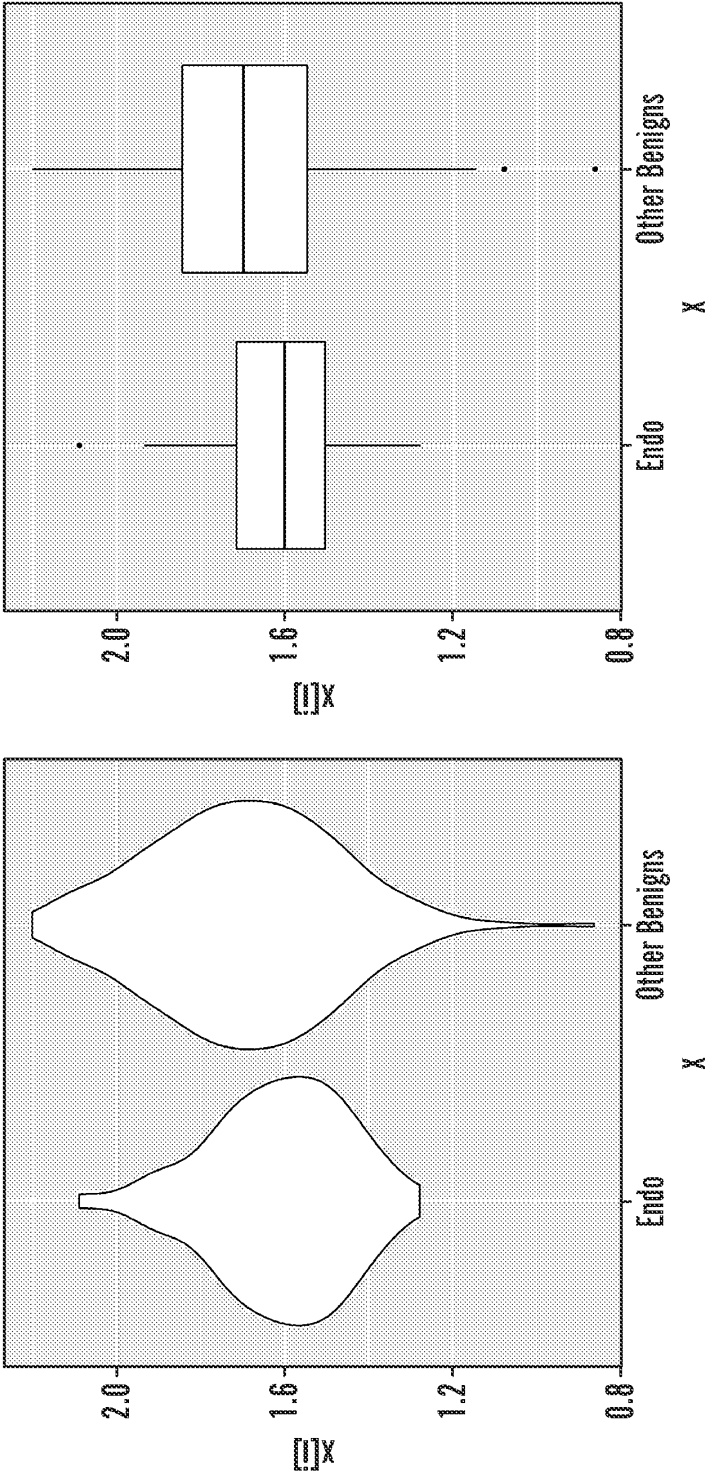


FIG. 61

YKL 40

I-Test P value:	0.002100646
Anova P value	0.012624494

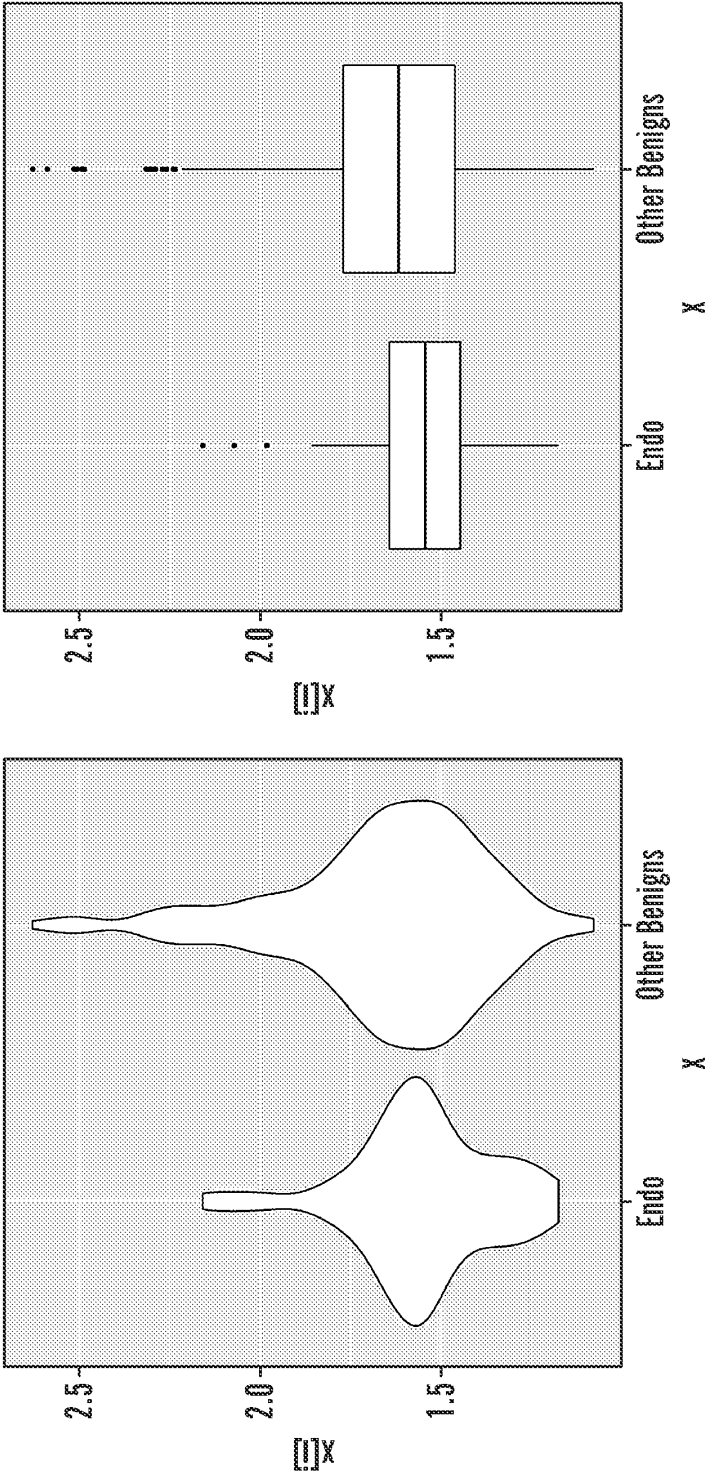


FIG. 62

FIG. 63***Follicle-stimulating hormone (FSH)***

1 mktlqffflf ccwkaiccns celtnitiai ekeecrfcis inttwcagyc ytrdlvykdp
61 arpkiqktct fkelvyetvr vpgcahads lytypvatqc hcgkcdsdst dctvrglgps
121 ycsfgemke

Human Epididymis Protein 4 (HE4)

1 mpacrlgpla aalllslllf gftlvsgtga ektgvcpelq adqntqecv sdsecadnlk
61 ccsagcatfc slpndkegsc pqvninfpql glcrdqcqvd sqcpqgmkc rncgkvscv
121 tpnf

FIG. 63 (cont'd)

CA 125

10	20	30	40	50	60
MLKPSGLPGS	SSPTRSLMTG	SRSTKATPEM	DSGLTGATLS	PKTSTGAIVV	TEHTLPFTSP
70	80	90	100	110	120
DKTLASPTSS	VVGRTTQSLG	VMSSALPEST	SRGMTHSEQR	TSPSLSPQVN	GTPSRNYPAT
130	140	150	160	170	180
SMVSGLSPPR	TRTSSTEGNF	TKEASTYTTL	VETTSGPVTE	KYTVPTETST	TEGDSTETPW
190	200	210	220	230	240
DTRYIPVKIT	SPMKTFADST	ASKENAPVSM	TPAETTVTDS	HTPGRTNPSF	GTLYSSFLLD
250	260	270	280	290	300
SPKGTTPNSRG	ETSLELILST	TGYPFSSPEP	GSAGHSRIST	SAPLSSASV	LDNKISETSI
310	320	330	340	350	360
FSGQSLTSPL	SPGVPEARAS	TMPNSAIPFS	MTLSNAETSA	ERVIRSTISSL	GTPSISTKQT
370	380	390	400	410	420
AETILTFHAF	AETMDIPSTH	IAKTLASEWL	GSPGTLGGTS	TSALTTTSPS	TTLVSEETNT
430	440	450	460	470	480
HHSTSGKETE	GTLNTSMTPL	ETSAPGEESE	MTATLVPTLG	FTTLDSKIRS	PSQVSSHPT
490	500	510	520	530	540
RELRTTGSTS	GRQSSSTAAB	GSSDILRATT	SSTSKASSWT	SESTAQQFSE	PQHTQWVETS
550	560	570	580	590	600
PSMKTERPPA	STSVAAPITT	SVPSVSGFT	TLKTSSTKGI	WLEETSADTL	IGESTAGPTT
610	620	630	640	650	660
HQFAVPTGIS	MTGGSSTRGS	QGTTHLLTRA	TASSETSADL	TLATNGVPVS	VSPAVSKTAA
670	680	690	700	710	720
GSSPPGGTKP	SYTMVSSVIP	ETSSLQSSAF	REGTSLGLTP	LNTRHPFSSP	EPDSAGHTKI
730	740	750	760	770	780
STSIPLLLSA	SVLEDKVSAT	STFHHKATS	SITTGTPEIS	TKTKPSSAVL	SSMTLSNAAT
790	800	810	820	830	840
SPERVRNATS	PLTHPSPSGE	ETAGSVLTLS	TSAETTDSPN	IHPTGTLTSE	SSESPSTLSL
850	860	870	880	890	900
PSVSGVKTTT	SSSTPSTHLF	TSGEETEETS	NPSVSQPETS	VSRVRTTLAS	TSVPTPVFPT
910	920	930	940	950	960
MDTWPTRSAQ	FSSSHLVSEL	RATSSTSVTN	STGSALPKIS	HLTGTATMSQ	TNRDTFNDSA
970	980	990	1000	1010	1020
APQSTTWPET	SPRFKTGLPS	ATTTVSTSAT	SLSATVMVSK	FTSPATSSME	ATSIREPSTT
1030	1040	1050	1060	1070	1080
ILTTETTINGP	GSMASVTNI	PIGKYITEG	RLDTSHLPIG	TTASSETSMD	FTMAKESVSM
1090	1100	1110	1120	1130	1140
SVSPSQSMDA	AGSSTPGRTS	QFVDTFSDDV	YHLTSREITI	PRDGTSSALT	PQMTATHPPS

FIG. 63 (cont'd)

1150	1160	1170	1180	1190	1200
PDPGSARSTW	LGILSSSPSS	PTPKVTMSST	FSTQRVTTS	IMDTVETSRW	NMPNLPSTTS
1210	1220	1230	1240	1250	1260
LTPSNIPTSG	AIGKSTLVPL	DTPSPATSLE	ASEGGLPTLS	TYPESTNTPS	IHLGAHASSE
1270	1280	1290	1300	1310	1320
SPSTIKLTMA	SVVKPGSYTP	LTFPSIETHI	HVSTARMAYS	SGSSPEMTAP	GETNTGSTWD
1330	1340	1350	1360	1370	1380
PTTYITTTDP	KDTSSAQVST	PHSVRTLRTT	ENHPKTESAT	PAAYSGSPKI	SSSPNLTPA
1390	1400	1410	1420	1430	1440
TKAWTITDIT	EHSTQLHYTK	LAEKSSGFET	QSAPGPVSVV	IPTSPTIGSS	TLELTSDVPG
1450	1460	1470	1480	1490	1500
EPLVLAPSEQ	TTITLPMATW	LSTSLTEEMA	STDLDISSPS	SPMSTFAIFP	PMSTPSHEL
1510	1520	1530	1540	1550	1560
KSEADTSAIR	NTDSTTLDQH	LGIRSLGRTG	DLTTPVITPL	TTTWTSVIEH	STQAQDTLSA
1570	1580	1590	1600	1610	1620
TMSPTHVTQS	LKDQTSIPAS	ASPSHLTEVY	PELGTQGRSS	SEATTFWKPS	TDTLSREIET
1630	1640	1650	1660	1670	1680
GPTNIQSTPP	MDNTTTGSSS	SGVTLGIAHL	PIGTSSPAET	STNMALERRS	STATVSMAGT
1690	1700	1710	1720	1730	1740
MGLLVTSAPG	RSISQSLGRV	SSVLSESTTE	GVTDSSKGSS	PRLNTQGNTA	LSSSLEPSYA
1750	1760	1770	1780	1790	1800
EGSQMST SIP	LTSSPTTPDV	EFIGGSTFWT	KEVTTVMTSD	ISKSSARTES	SSATLMSTAL
1810	1820	1830	1840	1850	1860
GSTENTGKEK	LRTASMDLPS	PTPSMEVTPW	ISLTLSNAPN	TTDSLDDLHG	VHTSSAGTLA
1870	1880	1890	1900	1910	1920
TDRSLNTGVT	RASRENGSD	TSSKSLSMGN	STHTSMTDTE	KSEVSSSIHP	RPETSAPGAE
1930	1940	1950	1960	1970	1980
TTLTSTPGNR	AISLTLPFSS	IPVEEVISTG	ITSGPDINSA	PMTHSPITPP	TIVWTSTGTI
1990	2000	2010	2020	2030	2040
EQSTQPLHAV	SSEKVSQQTQ	STPYVNSVAV	SASPTHENSV	SSGSSTSSPY	SSASLESIDS
2050	2060	2070	2080	2090	2100
TISRRAITS	WLWDLTSLP	TTTWPSTSL	EALSSGHSGV	SNPSSTTTEF	PLFSAASTSA
2110	2120	2130	2140	2150	2160
AKQRNPETET	HGPQNTAAST	LNTDASSVTG	LSETPVGASI	SSEVPLPMI	TSRSDVSGLT
2170	2180	2190	2200	2210	2220
SESTANPSLG	TASSAGTKLT	RTISLPTSES	LVSFRMNKDP	WTVSIPLGSH	PTTNTETSIP
2230	2240	2250	2260	2270	2280
VNSAGPPGLS	TVASDVIDTP	SDGAESIPTV	SFSPSPDTEV	TTISHFPEKT	THSFRTISSL
2290	2300	2310	2320	2330	2340
THELTSRVTP	IPGDWMSSAM	STKPTGASPS	ITLGERRTIT	SAAPTTSPIV	LTASFTEST
2350	2360	2370	2380	2390	2400
VSLDNETTVK	TSDILDARKT	NELPSDSSSS	SDLINTSIAS	STMDVTKTAS	ISPTSISGMT

FIG. 63 (cont'd)

2410	2420	2430	2440	2450	2460
ASSSPSLFSS	DRPQVPTSTT	ETNTATSPSV	SSNTYSLDGG	SNVGGTPSTL	PPFTITHPVE
2470	2480	2490	2500	2510	2520
TSSALLAWSR	PVRTFSTMVS	TDTASGENPT	SSNSVVTSTVP	APGTWASVGS	TTDLPMAGFL
2530	2540	2550	2560	2570	2580
KTSPAGEAHS	LLASTIEPAT	AFTPHLSAAV	VTGSSATSEA	SLLTTSSEKA	IHSSPQTPTT
2590	2600	2610	2620	2630	2640
PTSGANWETS	ATPESLLVVT	ETSDTTLTSTK	ILVTDITLFS	TVSTPPSKFP	STGTLGASGF
2650	2660	2670	2680	2690	2700
PTLLPDTPAI	PLTATEPTSS	LATSFDTSTPL	VTIASDSLGT	VPETTLTMSE	TSNGDALVLK
2710	2720	2730	2740	2750	2760
TVSNPDRSIP	GITIQQVTES	PLHPSSTSPS	KIVAPRNTTY	EGSITVALST	LPAGTTGSLV
2770	2780	2790	2800	2810	2820
FSQSSENSET	TALVDSSAGL	ERASVMPLTT	GSQGMASGSG	IRSGSTHSTG	TKTFSSLPLT
2830	2840	2850	2860	2870	2880
MNPGEVTAMS	EITTNRLTAT	QSTAPKGIPV	KPTSAESGLL	TPVSASSSPS	KAFASLTAP
2890	2900	2910	2920	2930	2940
PSTWGIPQST	LTFEFSEVPS	LDTKSASLPT	PGQSLNTIPD	SDASTASSSL	SKSPEKNPRA
2950	2960	2970	2980	2990	3000
RMMTSTKAIS	ASSFQSTGFT	ETPEGSASPS	MAGHEPRVPT	SGTGDPRYAS	ESMSYPDPSTK
3010	3020	3030	3040	3050	3060
ASSAMTSTSL	ASKLTTLFST	GQAARSGSSS	SPISLSTEKE	TSFLSPTAST	SRKTSFLGLP
3070	3080	3090	3100	3110	3120
SMARQPNILV	HLQTSALTLS	PTSTLNMSQE	EPPELTSSQT	IAEEEGTTAE	TQTLTFTPSE
3130	3140	3150	3160	3170	3180
TPTSLLPVSS	PTEPTARRKS	SPETWASSIS	VPAKTSLVET	TDGTLVTTIK	MSSQAAQGNS
3190	3200	3210	3220	3230	3240
TWPAPAEETG	TSPAGTSPGS	PEVSTTLKIM	SSKEPSISPE	IRSTVRNSPW	KTPETTVPME
3250	3260	3270	3280	3290	3300
TTVEPVTLQS	TALGSGSTSI	SHLPTGTTSP	TKSPTENMLA	TERVSLSPSP	PEAWTNLYSG
3310	3320	3330	3340	3350	3360
TPGGTRQSLA	TMSSVSLESP	TARSITGTGQ	QSSPELVSKT	TGMEFSMWHG	STGGTTGDTH
3370	3380	3390	3400	3410	3420
VSLSTSSNIL	EDPVTSPNSV	SSLTDKSKHK	TETWVSTTAI	PSTVLNNKIM	AAEQQTSRSV
3430	3440	3450	3460	3470	3480
DEAYSSTSSW	SDQTSBGSDIT	LGASPDVTNT	LYITSTAQTT	SLVSLPSGDQ	GITSLTNPSG
3490	3500	3510	3520	3530	3540
GKTSSASSVT	SPSIGLETLR	ANVSAVKSDI	APTAGHLSQT	SSPAEVSILD	VTTAPTGPIS
3550	3560	3570	3580	3590	3600
TTITTMGTNS	ISTTTNPNEV	GMSTMDSTPA	TERRTTSTEH	PSTWSSTAAS	DSWTVTDMTS
3610	3620	3630	3640	3650	3660
NLKVARSPGT	ISTMHTTSFL	ASSTELDSMS	TPHGRITVIG	TSLVTPSSDA	SAVKTETSTS

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FIG. 63 (cont'd)

3670	3680	3690	3700	3710	3720
ERTLSPSDTT	ASTPISTFSR	VQRMSISVPD	ILSTSWTPSS	TEAEDVPVSM	VSTDHASTKT
3730	3740	3750	3760	3770	3780
DPNTPLSTFL	FDSLSTLDWD	TGRSLSSATA	TTSAPQGATT	PQELTLETMI	SPATSQLPFS
3790	3800	3810	3820	3830	3840
IGHITSAVTP	AAMARSSGV	FSRPDPTSKK	AEQTSTQLPT	TTSAHPGQVP	RSATTLTDLVI
3850	3860	3870	3880	3890	3900
PHTAKTPDAT	FQRQGGTALT	TEARATSDSW	NEKEKSTPSA	PWITEMMNSV	SEDTIKEVTS
3910	3920	3930	3940	3950	3960
SSSVLKDPY	AGHKLGIWDD	FIPKFGKAAH	MRELPLLSP	QDKEAIHPST	NTVETTGWVT
3970	3980	3990	4000	4010	4020
SSEHASHSTI	PAHSASSKLT	SPVVTSTRE	QAIVSMSTTT	WPESTRARTE	PNSFLTIELR
4030	4040	4050	4060	4070	4080
DVSPYMDTSS	TTQTSTIISP	GSTAITKGPR	TEITSSKRIS	SSFLAQSMRS	SDSPSEAITR
4090	4100	4110	4120	4130	4140
LSNFPAMTES	GGMILAMQTS	PPGATSLSAP	TLDTSATASW	TGTPLATTQR	FTYSEKTLF
4150	4160	4170	4180	4190	4200
SKGPEDTSQP	SPPSVEETSS	SSSLVPIHAT	TSPSNILLTS	QGHSPSSTPP	VTSVFLSETS
4210	4220	4230	4240	4250	4260
GLGKTTDMSR	ISLEPGTSLP	PNLSSTAGEA	LSTYEASRDT	KAIHHSADTA	VTNMEATSSE
4270	4280	4290	4300	4310	4320
YSPPIPGHTKP	SKATSPLVTS	HIMGDITSST	SVFGSSETTE	IETVSSVNQG	LQERSTSQVA
4330	4340	4350	4360	4370	4380
SSATETSTVI	THVSSGDATT	HVTKTQATFS	SGTSISSPHQ	FITSTNTFTD	VSTNPSTSLI
4390	4400	4410	4420	4430	4440
MTESSGVITIT	TQTGTGAAT	QGPYLLDTST	MPYLTETPLA	VTPDFMQSEK	TTLISKGPKD
4450	4460	4470	4480	4490	4500
VTWTSPPSVA	ETSYPPSSLTP	FLVTTIPPAT	STLQGQHTSS	PVSATSVLTS	GLVKTTDMLN
4510	4520	4530	4540	4550	4560
TSMEPVTNSP	QNLNPSNEI	LATLAATTDI	ETIHPSINKA	VTNMGTASSA	HVLHSTLPVS
4570	4580	4590	4600	4610	4620
SEPSTATSPM	VPASSMGDAL	ASISIPGSET	TDIEGEPTSS	LTAGRKENST	LQEMNSTTES
4630	4640	4650	4660	4670	4680
NIILSNVSVG	AITEATKMEV	PSFDATFIPT	PAQSTKFPDI	FSVASSRLSN	SPPMTISTHM
4690	4700	4710	4720	4730	4740
TTTQTGSSGA	TSKIPLALDT	STLETSAGTP	SVVTEGFAHS	KITTAMNNDV	KDVSQTNPPF
4750	4760	4770	4780	4790	4800
QDEASSPSSQ	APVLVTTLPS	SVAFTPQWHS	TSSPVSMSSV	LTSSLVKTAG	KVDTSLETVT
4810	4820	4830	4840	4850	4860
SSPQSMSNTL	DDISVTSAA	TDIETHPSI	NTVVTVNGTT	GSAFESHSTV	SAYPEPSKVT
4870	4880	4890	4900	4910	4920
SPNVTTSTME	DTTISRIPK	SSKTTRTETE	TTSSLTPKLR	ETSIHQEITS	STETSTVPYK

FIG. 63 (cont'd)

4930	4940	4950	4960	4970	4980
ELTGATTEVS	RTDVTSSSST	SFPGPDQSTV	SLDISTETNT	RLSTSPIMTE	SAEITITTQT
4990	5000	5010	5020	5030	5040
GPHGATSQDT	FTMDPSNTTP	QAGIHSAMTH	GFSQLDVTTL	MSRIPQDVSW	TSPPSVDKTS
5050	5060	5070	5080	5090	5100
SPSSFLSSPA	MTTPSLISST	LPEDKLSSPM	TSLLTSGLVK	ITDILRTRLE	PVTSSLPNFS
5110	5120	5130	5140	5150	5160
STSDKILATS	KDSKDTKEIF	PSINTEETNV	KANNSGHESH	SPALADSETP	KATTQMVIIT
5170	5180	5190	5200	5210	5220
TVGDPAPSTS	MPVHGSSETT	NIKREPTYFL	TPRLRETSTS	QESSFPTDTS	FLLSKVPTGT
5230	5240	5250	5260	5270	5280
ITEVSSTGVN	SSSKIISTPDH	DKSTVPPDTF	TGEIPRVFTS	SIKTKSAEMT	ITTQASPPES
5290	5300	5310	5320	5330	5340
ASHSTLPLDT	STTLSQGGTH	STVTQGFYPS	EVTTLMGMP	GNVSWMTTPP	VEETSSVSSL
5350	5360	5370	5380	5390	5400
MSSPAMTSPS	PVSSTSPQSI	PSSPLPVTAL	PTSVLVTTTD	VLGTTSPESV	TSSPPNLSSI
5410	5420	5430	5440	5450	5460
THERPATYKD	TAHTEAMHH	STNTAVTNVG	TSGSGHKSQS	SVLADSETSK	ATPLMSTTST
5470	5480	5490	5500	5510	5520
LGDTSVSTST	PNISQTNQIQ	TEPTASLSPR	LRESSTSEKT	SSTTETNTAF	SYVPTGAIQ
5530	5540	5550	5560	5570	5580
ASRTEISSSR	TSISDLDRPT	IAPDISTGMI	TRLFTSPIMT	KSAEMTVTTQ	TTTTPGATSQG
5590	5600	5610	5620	5630	5640
ILPWDSTTTL	FQGGTHSTVS	QGFPHSEITT	LRSRTPGDVS	WMTTPPVEET	SSGFSMLSPS
5650	5660	5670	5680	5690	5700
MTSPSPVSST	SPESIPSSPL	PVTALLTSVL	VTTTNVLGTT	SPETVTSSPP	NLSSPTQERL
5710	5720	5730	5740	5750	5760
TTYKDTAHE	AMHAMHTNT	AVANVGTSIS	GHESSQSSVPA	DSHTSKATSP	MGITFAMGDT
5770	5780	5790	5800	5810	5820
SVSTSTPAFF	ETRIQTESTS	SLIPGLRDTR	TSEEINTVTE	TSTVLSEVPT	TTTTTEVSRTE
5830	5840	5850	5860	5870	5880
VITSSRTTIS	GPDHSMSPY	ISTETITRLS	TFPFVTGSTE	MAITNQTGPI	GTISQATLTL
5890	5900	5910	5920	5930	5940
DTSSSTASWEG	THSPVTQRFP	HSEETTTMSR	STKGVSWQSP	PSVEETSSPS	SPVPLPAITS
5950	5960	5970	5980	5990	6000
HSSLYSAVSG	SSPTSALPVT	SLLTSGRRKT	IDMLDTHSEL	VTSSLPSASS	FSGEILTSEA
6010	6020	6030	6040	6050	6060
STNTETIHFS	ENTAETNMGT	TNSMHKLHSS	VSIHSQPSGH	TPPKVTGSMM	EDAIVSTSTP
6070	6080	6090	6100	6110	6120
GSPETKNVDR	DSTSPLTPEL	KEDSTALVMN	STTESNTVFS	SVSLDAATEV	SRAEVYYDP
6130	6140	6150	6160	6170	6180
TFMPASAQST	KSPDISPEAS	SSHNSNPPLT	ISTHKTIATQ	TGPGSVTSLG	QLTLDTSTIA

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FIG. 63 (cont'd)

6190	6200	6210	6220	6230	6240
TSAGTPSART	QDFVDSETTS	VMNNDLNDVL	KTSPFSAEEA	NSLSSQAPLL	VTTSPSPVTS
6250	6260	6270	6280	6290	6300
TLQEHSTSSL	VSVTSVPTPT	LAKITDMDTN	LEPVTRSPQN	LRNTLATSEA	TTDTHTMHPS
6310	6320	6330	6340	6350	6360
INTAMANVGT	TSSPNEFYFT	VSPDSDPYKA	TSAVVITSTS	GDSIVSTSMP	RSSAMKKIES
6370	6380	6390	6400	6410	6420
ETTFSLIFRL	RETSTSQKIG	SSSDTSTVFD	KAFTAATTEV	SRTELTSSSR	TSIQGTEKPT
6430	6440	6450	6460	6470	6480
MSPDTSTRSV	TMLSTFAGLT	KSEERTIATQ	TGPHRATSQG	TLTWDTSITT	SQAGTHSAMT
6490	6500	6510	6520	6530	6540
HGFSQLDLST	LTSRVPEYIS	GTSPPSVEKT	SSSSLLSLP	AITSPSPVPT	TLPESRPSSP
6550	6560	6570	6580	6590	6600
VHLTSLPTSG	LVKTTDMLAS	VASLPPNLGS	TSHKIPTTSE	DIKDTEKMYP	STNIAVTNVG
6610	6620	6630	6640	6650	6660
TTTSEKESYS	SVPAYSEPPK	VTSPMVTSTN	IRDTIVSTSM	PGSSEITRIE	MESTFVSAHG
6670	6680	6690	6700	6710	6720
LKGTSTSQDP	IVSTEKSAVL	HKLTTGATET	SRTEVASSRR	TSIPGPDHST	ESPDISTEVI
6730	6740	6750	6760	6770	6780
PSLPISLGIT	ESSNMTIITR	TGPPLGSTSQ	GTFTLDTPTT	SSRAGTHSMA	TQEFPHSEMT
6790	6800	6810	6820	6830	6840
TVMNKDPEIL	SWTIPPSIEK	TSFSSSLMPS	PAMTSPPVSS	TLPKTIHTTP	SPMTSLLTPS
6850	6860	6870	6880	6890	6900
LVMTTDTLGT	SPEPTTSSPP	NLSSTSHVIL	TTDEDTTAIE	AMHPSTSTAA	TNVETTCSGH
6910	6920	6930	6940	6950	6960
GSQSSVLTD	EKTKATAPMD	TTSTMGHTTV	STSMSVSSET	TKIKRESTYS	LTPGLRETSI
6970	6980	6990	7000	7010	7020
SQNASFSTDT	SIVLSEVPTG	TTAEVSRTEV	TSSGRTSIPG	PSQSTVLPEI	STRMTMLFA
7030	7040	7050	7060	7070	7080
SPTMTESAEM	TIPTQTGPSP	STSQDTLTLD	TSTTKSQAKT	HSTLTQRFPH	SEMTTLMRSG
7090	7100	7110	7120	7130	7140
PGDMSWQSSP	SLENPSSLPS	LLSLPATTSP	PPISSTLPVT	ISSSPLPVT	LLTSSPVTTT
7150	7160	7170	7180	7190	7200
DMLHTSPELV	TSSPPKLSHT	SDERLTTGKD	TTNTEAVHPS	TNTAASNVEI	PSFGHESPSS
7210	7220	7230	7240	7250	7260
ALADSETSKA	TSPMFITSTQ	EDTTVAISTP	HFLETSRIQK	ESISSLSPKL	RETGSSVETS
7270	7280	7290	7300	7310	7320
SAIETSAVLS	EVSIGATTEI	SRTEVTSSSR	TSISGSAEST	MLPEISTTRK	IIKFPTSPIL
7330	7340	7350	7360	7370	7380
AESSEMTIKT	QTSPPGSTSE	STFTLDTSTT	PSLVITHSTM	TQRLPHSEIT	TLVSRGAGDV
7390	7400	7410	7420	7430	7440
PRPSSLPVEE	TSPSSQLSL	SAMISPSPV	STLPASSHSS	SASVTSPLTP	GQVKTEVLD

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FIG. 63 (cont'd)

7450	7460	7470	7480	7490	7500
ASAEPETSSP	PSLSSTSVEI	LATSEVTDDT	EKIHPFPNTA	VTKVGTSSSG	HESPSSVLDP
7510	7520	7530	7540	7550	7560
SETTKATSAM	GTISIMGDT	VSTLTPALSN	TRKIQSEPAS	SLTTRLRETS	TSEETSLATE
7570	7580	7590	7600	7610	7620
ANTVLSKVST	GATTEVSRT	AISFSRTSMS	GPEQSTMSQD	ISIGTIPRIS	ASSVLTESAK
7630	7640	7650	7660	7670	7680
MTITTQTGPS	ESTLESTLNL	NTATTPSWVE	THSIVIQQFP	HPEMTTSMGR	GPGGVSWPSP
7690	7700	7710	7720	7730	7740
PFVKETSPPS	SPLSLPAVTS	PHPVSTTFLA	HIPPSPLPVT	SLLTSGPATT	TDILGTSTEP
7750	7760	7770	7780	7790	7800
GTSSSSSLST	TSHERLTTRYK	DTAHTEAVHP	STNTGGTNVA	TTSSGYKSQS	SVLADSSPMC
7810	7820	7830	7840	7850	7860
TTSTMGDTSV	LTSTPAFLET	RRIQTECLASS	LTPGLRESSG	SEGTSSSGTKM	STVLSKVPTG
7870	7880	7890	7900	7910	7920
ATTEISKEDV	TSIPGPAQST	ISPDISTRTV	SWFSTSPVMT	ESAEITMNTN	TSPLGATTQG
7930	7940	7950	7960	7970	7980
TSTLATSSST	SLTMTHSTIS	QGFSHSQMST	LMRRGPEDVS	WMSPPLLEKT	RPSFSLMSSP
7990	8000	8010	8020	8030	8040
ATTSPSPVSS	TLPEISSSSP	LPVTSLLTSG	LAKTTDMLHK	SSEPVTNSPA	NLSSTSVEIL
8050	8060	8070	8080	8090	8100
ATSEVTDDTE	KTHPSSNRTV	TDVGTSSSGH	ESTSFVLADS	QTSKVTSPMV	ITSTMEDTSV
8110	8120	8130	8140	8150	8160
STSTPGFFET	SRIQTEPTSS	LTLGLRKTSS	SEGTSLATEM	STVLSGVPTG	ATAEVSRTVE
8170	8180	8190	8200	8210	8220
TSSSRSTSISG	FAQLTVSPET	STETITRLPT	SSIMTESAEM	MIKTQTDPPG	STPESTHTVD
8230	8240	8250	8260	8270	8280
ISTTPNWVET	HSTVTQRFHS	SEMTTLVSR	PGDMLWPSQS	SVEETSSASS	LLSLPATTSP
8290	8300	8310	8320	8330	8340
SPVSSSTLVED	FPSASLPVTS	LLTPGLVITT	DRMGISREPG	TSSTSNLSST	SHERLTTLED
8350	8360	8370	8380	8390	8400
TVDTEDMQPS	THTAVTNVRT	SISGHESQSS	VLSDSETPKA	TSPMGTTYTM	GETSVSISTS
8410	8420	8430	8440	8450	8460
DDFFETSRIQI	EPTSSSLTSG	RETSSSERIS	SATEGSTVLS	EVPSGATTEV	SRTEVISSRG
8470	8480	8490	8500	8510	8520
TSMSPGDQFT	ISPDISTEAI	TRLSTSPIMT	ESAESAITIE	TGSPGATSEG	TLTLDSTTTT
8530	8540	8550	8560	8570	8580
FWSGTHSTAS	PGFSHSEMTT	LMSRTPGDVP	WPSLPSVEEA	SSVSSSLSSP	AMTSTSFSSA
8590	8600	8610	8620	8630	8640
LPESISSSPH	PVTALLTLGP	VKTTDMLRTS	SEPETSSPPN	LSSTSAEILA	TSEVTKDREK

FIG. 63 (cont'd)

8650	8660	8670	8680	8690	8700
IHPSSNTPVW	NVGTVIYKHL	SPSSVLADLV	TTKPTSPMAT	TSTLGNTSVS	TSTPAFPETM
8710	8720	8730	8740	8750	8760
MTQPTSSLTS	GLREISTSQE	TSSATERSAS	LSGMPTGATT	KVSRTEALSL	GRTSTPGPAQ
8770	8780	8790	8800	8810	8820
STISPEISTE	TITRISTPLT	TTGSAEMTIT	PKTGHSGASS	QGTFTLDTSS	RASWPGTHSA
8830	8840	8850	8860	8870	8880
ATHRSPHSGM	TPPMSRGPED	VSWPSRPSVE	KTSPPPSSLVS	LSAVTSPSPSL	YSTPSESSHs
8890	8900	8910	8920	8930	8940
SPLRVTSLFT	PVMMKTDDML	DTSLEPVTTS	PPSMNITSDE	SLATSKATME	TEAIQLSENT
8950	8960	8970	8980	8990	9000
AVTQMGTISA	RQEFYSSYPG	LPEPSKVTSP	VVTSSTIKDI	VSTTIPASSE	ITRIEMESTS
9010	9020	9030	9040	9050	9060
TLTPTPRETS	TSQEIHSATK	PSTVPYKALT	SATIEDSMTQ	VMSSSRGPSP	DQSTMSQDIS
9070	9080	9090	9100	9110	9120
SEVITRLSTS	PIKAESTEMT	ITTQTGSPGA	TSRGTLTLDT	STTFMSGTHS	TASQGFHSQ
9130	9140	9150	9160	9170	9180
MTALMSRTPG	DVPWLHPSV	EEASSASFSL	SSPVMTSSSP	VSSTLPDSIH	SSSLPVTSL
9190	9200	9210	9220	9230	9240
TSGLVKTTTEL	LGTSSSEPETS	SPPNLSSTSA	EILATTEVTT	DTEKLEMTNV	VTSGYTHESP
9250	9260	9270	9280	9290	9300
SSVLADSVTT	KATSSMGITY	PTGDTNVLT	TPAFSDTSRI	QTKSKLSLTP	GLMETSISEE
9310	9320	9330	9340	9350	9360
TSSATEKSTV	LSSVPTGATT	EVSRTAIAISS	SRTSIPGPAQ	STMSSDTSME	TITRISTPLT
9370	9380	9390	9400	9410	9420
RKESTDMAIT	PKTGPSPGATS	QGTFTLDSSS	TASWPGTHSA	TTQRFPPQSVV	TPPMSRGPED
9430	9440	9450	9460	9470	9480
VSWPSPLSVE	KNSPPSSLVS	SSSVTSPSPSL	YSTPSGSSHS	SPVPVTSLFT	SIMMKATDML
9490	9500	9510	9520	9530	9540
DASLEPETTS	APNMNITSDE	SLATSKATTE	TEAIHVFENT	AASHVETTS	TEELYSSSPG
9550	9560	9570	9580	9590	9600
FSEPTKVISP	VVTSSSIRDN	MVSTTMPGSS	GITRIEIESM	SSLTPGLRET	RTSQDITSST
9610	9620	9630	9640	9650	9660
ETSTVLYKMS	SGATPEVSRT	EVMPSRTSI	PGPAQSTMSL	DISDEVVTRL	STSPIMTESA
9670	9680	9690	9700	9710	9720
EITITTQTGY	SLATSQVTL	LGTSMTFLSG	THSTMSQGLS	HSEMTNLMSR	GPESLSWTSP
9730	9740	9750	9760	9770	9780
RFVETTRSSS	SLTSLPLTTS	LSPVSSTLLD	SSPSSPLPVT	SLILPGLVKT	TEVLDTSEP
9790	9800	9810	9820	9830	9840
KTSSSPNLSS	TSVEIPATSE	IMTDTEKIHP	SSNTAVAKVR	TSSSVHESHS	SVLADSETTI

FIG. 63 (cont'd)

9850	9860	9870	9880	9890	9900
TIPSMGITSA	VDDTTVFTSN	PAFSETRRIP	TEPTFSLTPG	FRETSTSEET	TSITETSAVL
9910	9920	9930	9940	9950	9960
YGVPTSATTE	VSMTEIMSSN	RTHIPDSDQS	TMSPDIITEV	ITRLSSSSMM	SESTQMTITT
9970	9980	9990	10000	10010	10020
QKSSPGATAQ	STLTLLATTTA	PLARTHSTVP	PRFLHSEMTT	LMSRSPENPS	WKSSPFVEKT
10030	10040	10050	10060	10070	10080
SSSSLLSLP	VTTSPSVSST	LPQSIPSSSF	SVTSLLTSGM	VKTTDTSTEP	GTSLSPNLGS
10090	10100	10110	10120	10130	10140
TSVEILAASE	VTTDTEKIHP	SSSMAVTNVG	TTSSGHELYS	SVSIHSEPSK	ATYPVGTPTS
10150	10160	10170	10180	10190	10200
MAETSISTSM	PANFETTGFEE	AEPFSLTSG	FRKTNMSLDT	SSVTPTNTPS	SPGSTHLLQS
10210	10220	10230	10240	10250	10260
SKTDFTSSAK	TSSPDWPPAS	QYTEIPVDII	TPFNASPSIT	ESTGITSFPE	SRFTMSVTES
10270	10280	10290	10300	10310	10320
THHLSTDLLP	SAETISTGTV	MPSLSEAMTS	FATTGVPRAI	SGSGSPFSRT	ESGPGDATLS
10330	10340	10350	10360	10370	10380
TIAESLPSST	PVPFSSSTFT	TTDSSTIPAL	HEITSSSATP	YRVDTSLGTE	SSTTEGRLVM
10390	10400	10410	10420	10430	10440
VSTLDTSSQP	GRTSSTPILD	TRMTESVELG	TVTSAYQVPS	LSTRLTRTDG	IMEHITKIPN
10450	10460	10470	10480	10490	10500
EAAHRGTIRP	VKGPPQTSTP	ASPKGLHTGG	TKRMETTTTA	LKTTTTALKT	TSRATLTTSV
10510	10520	10530	10540	10550	10560
YPTLGLTLTP	LNASRQMAST	ILTEMMITTP	YVFPDVPETT	SSLATSLGAE	TSTALPRTPP
10570	10580	10590	10600	10610	10620
SVLNRESETT	ASLVSRSGAE	RSPVIQTLDV	SSSEPDTTAS	WVIHPAETIP	TVSKTTPNFF
10630	10640	10650	10660	10670	10680
HSELDTVSST	ATSHGADVSS	AIPTNISPS	LDALTPLVTI	SGTDTSTTFP	TLTKSPHETE
10690	10700	10710	10720	10730	10740
TRTTWLTHPA	ETSSTIPRTI	PNFSHHESDA	TPSIATSPGA	ETSSAIPIMT	VSPGAEDLVT
10750	10760	10770	10780	10790	10800
SQVTSSGTDR	NMTIPTLTLS	PGEPKTIASL	VTHPEAQTS	AIPTSTISPA	VSRLVTSMTV
10810	10820	10830	10840	10850	10860
SLAAKTSTTN	RALTNSPGEP	ATTVSLVTHP	AQTSPTVPWT	TSIFFHKSDD	TTPSMTTSHG
10870	10880	10890	10900	10910	10920
AESSAVPTP	TVSTEVPGVV	TPLVTSSRAV	ISTTIPILT	SPGEPETTPS	MATSHGEEAS
10930	10940	10950	10960	10970	10980
SAIPTPTVSP	GVPGVVTSLV	TSSRAVTSTT	IPILTFLSLGE	PETTPSMATS	HGTEAGSAVP
10990	11000	11010	11020	11030	11040
TVLPEVPGMV	TSLVASSRAV	TSTTLPTLTL	SPGEPETTPS	MATSHGAEAS	STVPTVSPEV

FIG. 63 (cont'd)

11050	11060	11070	11080	11090	11100
PGVVTSLVTS	SSGVNSTSIP	TLILSPGELE	TTPSMATSHG	AEASSAVPTP	TVSPGVSGVV
11110	11120	11130	11140	11150	11160
TPLVTSSRAV	TSTTIPILTL	SSSEPETTPS	MATSHGVEAS	SAVLTVSPEV	PGMVTSLVTS
11170	11180	11190	11200	11210	11220
SRAVTSTTIP	TLTISSDEPE	TTTSLVTHSE	AKMISAIPTL	AVSPTVQGLV	TSLVTSSGSE
11230	11240	11250	11260	11270	11280
TSAFSNLTV	SSQPETIDSW	VAHPGTEASS	VVPTLTVSTG	EPFTNISLVT	HPAESSSTLP
11290	11300	11310	11320	11330	11340
RTTSRFSHSE	LDTMPSTVTS	PEAESSAIS	TTISPGIPGV	LTSLVTSSGR	DISATFPTVP
11350	11360	11370	11380	11390	11400
ESPHSEATA	SWVTHPAVTS	TTVPRTTPNY	SHSEPDTTPS	IATSPGAEAT	SDFPTITVSP
11410	11420	11430	11440	11450	11460
DVPDMVTSQV	TSSGTDTSIT	IPTLTLSSGE	PETTTSFITY	SEHTTSSAIP	TLPVSPGASK
11470	11480	11490	11500	11510	11520
MLTSLVISSG	TDSTTTFFPTL	TETPYEPETT	AIQLIHPAET	NTMVPKTTPK	FSHKSDDTL
11530	11540	11550	11560	11570	11580
PVAITSPGPE	ASSAVSTTTI	SPDMSDLVTS	LVPSSGTDTS	TTFPTLSETP	YEPETTVTWL
11590	11600	11610	11620	11630	11640
THPAETSTTV	SGTIPNFESH	GSDTAPSMVT	SPGVDTRSGV	PTTTIPPSIP	GVVTSQVTSS
11650	11660	11670	11680	11690	11700
ATDTSTAIP	LTPSPGEPET	TASSATHPGT	QTGFTVPIRT	VPSSEPDTMA	SWVTHPPQTS
11710	11720	11730	11740	11750	11760
TPVSRRTSSS	SHSSPDATPV	MATSPRTEAS	SAVLTTISPG	APEMVTSQIT	SSGAATSTTV
11770	11780	11790	11800	11810	11820
PTLTHSPGMP	ETTALLSTHP	RTGTSKTFPA	STVFPQVSET	TASLTIRPGA	ETSTALPTQT
11830	11840	11850	11860	11870	11880
TSSLFTLLVT	GTSRVDLSPT	ASPGVSAKTA	PLSTHPGTET	STMIPTSTLS	LGLLETTGLL
11890	11900	11910	11920	11930	11940
ATSSSAETST	STLTLTVSPA	VSGLSSASIT	TDKPQTVTSW	NTETSPSVTS	VGPPEFSRTV
11950	11960	11970	11980	11990	12000
TGTTMTLIPS	EMPTPPKTS	GEGVSPTTIL	RTTMVEATNL	ATTGSSPTVA	KTTTTFNTLA
12010	12020	12030	12040	12050	12060
GSLFTPLTTP	GMSTLASESV	TSRTSYNHRS	WISTTSSYNR	RYWTPATSTP	VTSTFSPGIS
12070	12080	12090	12100	12110	12120
TSSIPSTTAA	TVPFMVPFTL	NFTITNLQYE	EDMRHPGSRK	FNATERELQG	LLKPLFRNSS
12130	12140	12150	12160	12170	12180
LEYLYSGCRL	ASLRPEKDSS	AMAVDAICTH	RPDPEDLGLD	RERLYWELSN	LTNGIQELGP
12190	12200	12210	12220	12230	12240
YTLDRNSLYV	NGFTHRSSMP	TTSTPGTSTV	DVGTSGETPSS	SPSPTAAGPL	LMPFTLNFTI
12250	12260	12270	12280	12290	12300
TNLQYEEDMR	RTGSRKFNTM	ESVLQGLLKP	LFKNTSVGPL	YSGCRLTLR	PEKDGAATGV

FIG. 63 (cont'd)

12310	12320	12330	12340	12350	12360
DAICTHRLDP	KSPGLNREQ	YWELSKLTND	IEELGPYTLD	RNSLYVNGFT	HQSSVSTTST
12370	12380	12390	12400	12410	12420
PGTSTVDLRT	SGTPSSLSSP	TIMAAGPLL	PFTLNFTITN	LQYGEDMGHP	GSRKFNTER
12430	12440	12450	12460	12470	12480
VLQGLLGPIF	KNTSVGPLY	GCRLTSLRSE	KDGAATGVDA	ICIHHLDPKS	PGLNRERLYW
12490	12500	12510	12520	12530	12540
ELSQLTNGIK	ELGPYTLDNR	SLYVNGFTHR	TSVPTTSTPG	TSTVDLGTSG	TPFSLPSPAT
12550	12560	12570	12580	12590	12600
AGPLLVLFTL	NFTITNLKYE	EDMHRPGSRK	FNTTERVLQT	LLGPMFKNTS	VGLLYSGCRL
12610	12620	12630	12640	12650	12660
TLLRSEKDGA	ATGVDAICTH	RLDPKSPGLD	REQLYWELSQ	LTNGIKELGP	YTLDRNSLYV
12670	12680	12690	12700	12710	12720
NGFTHWIPVP	TSSTPGTSTV	DLGSGTPSSL	PSPTAAGPLL	VPFTLNFTIT	NLQYEEDMH
12730	12740	12750	12760	12770	12780
PGSRKFNTTE	RVLQGLLGPM	FKNTSVGLLY	SGCRLTLLRS	EKDGAATGVD	AICTHRLDPK
12790	12800	12810	12820	12830	12840
SPGVDREQLY	WELSQTNGI	KELGPYTLDNR	NSLYVNGFTH	QTSAPNTSTP	GTSTVDLGTS
12850	12860	12870	12880	12890	12900
GTPSSLPSPT	SAGPLLVPFT	LNFTITNLQY	EEDMRHPGSR	KFNTTERVLQ	GLLKPLFKST
12910	12920	12930	12940	12950	12960
SVGPLYSGCR	LTLRSEKDG	AATGVDAICT	HRLDPKSPGV	DREQLYWELS	QLTNGIKELG
12970	12980	12990	13000	13010	13020
PYTLDNRSLY	VNGFTHQTSA	PNTSTPGTST	VDLGTSGTPS	SLPSPTSAGP	LLVPFTLNFT
13030	13040	13050	13060	13070	13080
ITNLQYEEDM	HHPGSRKFNT	TERVLQGLLG	PMFKNTSVGL	LYSGCRLTLL	RPEKNGAATG
13090	13100	13110	13120	13130	13140
MDAICSHRLD	PKSPGLNREQ	LYWELSQTTH	GIKELGPYTL	DRNSLYVNGF	THRSSVAPTS
13150	13160	13170	13180	13190	13200
TPGTSTVDLG	TSGTPSSLPS	PTTAVPLLVP	FTLNFTITNL	QYGEDMRHPG	SRKFNTTERV
13210	13220	13230	13240	13250	13260
LQGLLGPLFK	NSSVGPLYSG	CRLISLRSEK	DGAATGVDAI	CTHHLNPQSP	GLDREQLYWQ
13270	13280	13290	13300	13310	13320
LSQMTNGIKE	LGPYTLDNR	LYVNGFTHRS	SGLTTSTPWT	STVDLGTSGT	PSPVPSPTTA
13330	13340	13350	13360	13370	13380
GPLLVPFTLN	FTITNLQYEE	DMHRPGSRKF	NTTERVLQGL	LSPIFKNSSV	GPLYSGCRLT
13390	13400	13410	13420	13430	13440
SLRPEKDGA	TGMDAVCLYH	PNPKRPGLDR	EQLYWELSQT	THNITELGPY	SLDRDSLNVN
13450	13460	13470	13480	13490	13500
GFTHQNSVPT	TSTPGTSTVY	WATTGTPSSF	PGHTEPGPLL	IPFTFNFTIT	NLHYEENMQH
13510	13520	13530	13540	13550	13560
PGSRKFNTTE	RVLQGLLKPL	FKNTSVGPLY	SGCRLTSLRP	EKDGAATGMD	AVCLYHPNPK

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FIG. 63 (cont'd)

13570	13580	13590	13600	13610	13620
RPGLDREQLY	WELSQLTHNI	TELGYPYSLDR	DSLYVNGFTH	QNSVPTTSTP	GTSTVYWATT
13630	13640	13650	13660	13670	13680
GTPSSFPGHT	EPGPLLIPFT	FNFTITNLHY	EENMQHPGSR	KFNTTTERVLQ	GLLKPLFKNT
13690	13700	13710	13720	13730	13740
SVGPLYSGCR	LTLLRPEKHE	AATGVDTICT	HRVDPIGPGL	DRERLYWELS	QLTNSITELG
13750	13760	13770	13780	13790	13800
PYTLDLDRSLY	VNGFNPRSSV	PTTSTPGTST	VHLATSGTPS	SLPGHTAPVP	LLIPFTLNFT
13810	13820	13830	13840	13850	13860
ITNLHYEENM	QHPGSRKFNT	TERVLQGLLK	PLFKNTSVGP	LYSGCRLTLL	RPEKHEAATG
13870	13880	13890	13900	13910	13920
VDTICTHRVD	PIGPGLXXEX	LYWELSXLTX	XIXELGPYTL	DRXSPLYVNGF	THXXSXPTTS
13930	13940	13950	13960	13970	13980
TPGTSTVXXG	TSGTPSSXPX	XTSAGPLLVP	FTLNFTITNL	QYEEDMHHPG	SRKFNTTERTV
13990	14000	14010	14020	14030	14040
LQGLLGPMFK	NTSVGLLYSG	CRLTLLRPEK	NGAATGMDAI	CSHRLDPKSP	GLDREQLYWE
14050	14060	14070	14080	14090	14100
LSQLTHGIKE	LGPYTLDRNS	LYVNGFTHRS	SVAPTSTPGT	STVDLGTSGT	PSSLPSPTTA
14110	14120	14130	14140	14150	14160
VPLLVPFTLN	FTITNLQYGE	DMRHGSRKF	NTTERVLQGL	LGPLFKNSSV	GPLYSGCRLI
14170	14180	14190	14200	14210	14220
SLRSEKDGA	TGVDAICTHH	LNPQSPGLDR	EQLYWQLSQM	TNGIKELGPY	TLDRNSLYVN
14230	14240	14250	14260	14270	14280
GFTHRSSGLT	TSTPWTSTVD	LGTSGTPSPV	PSPTTAGPLL	VPFTLNFTIT	NLQYEEDMHR
14290	14300	14310	14320	14330	14340
PGSRKFNATE	RVLQGLLSPI	FKNSSVGPLY	SGCRLTSLRP	EKDGAATGMD	AVCLYHPNPK
14350	14360	14370	14380	14390	14400
RPGLDREQLY	WELSQLTHNI	TELGYPYSLDR	DSLYVNGFTH	QSSMTTTRTP	DTSTMHLATS
14410	14420	14430	14440	14450	14460
RTPASLSGPT	TASPLLVLFT	INCTITNLQY	EEDMRRTGSR	KFNTMESVLQ	GLLKPLFKNT
14470	14480	14490	14500	14510	14520
SVGPLYSGCR	LTLLRPKKDG	AATGVDAICT	HRLDPKSPGL	NREQLYWELS	KLTNDIEELG
14530	14540	14550	14560	14570	14580
PYTLDLDRNSLY	VNGFTHQSSV	STTSTPGTST	VDLRTSGTPS	SLSSPTIMXX	XPLLXPFTXN
14590	14600	14610	14620	14630	14640
XTITNLXXXX	XMXXPGSRKF	NTTERVLQGL	LRPLFKNTSV	SSLYSGCRLT	LLRPEKDGAA
14650	14660	14670	14680	14690	14700
TRVDAACTYR	PDPKSPGLDR	EQLYWELS QL	THSITELGPY	TLDRVSLYVN	GFNPRSSVPT
14710	14720	14730	14740	14750	14760
TSTPGTSTVH	LATSGTPSSL	PGHTXXXPLL	XPFTXNXTIT	NLXXXXXMX	PGSRKFNTTE
14770	14780	14790	14800	14810	14820
RVLQGLLKPL	FRNSSLEYLY	SGCRLASLRP	EKDSSAMAVD	AICTHRPDPE	DLGLDRERLY

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FIG. 63 (cont'd)

14830	14840	14850	14860	14870	14880
WELSNLTNGI	QELGPTYLDR	NSLYVNGFTH	RSSGLTTSTP	WTSTVDLGTS	GTPSPVPSP
14890	14900	14910	14920	14930	14940
TAGPLLVPFT	LNFTITNLQY	EEDMHRPGSR	RFTTTERVLQ	GLLTPLFKNT	SVGPLYSGCR
14950	14960	14970	14980	14990	15000
LTLRLPEKQE	AATGVDTICT	HRVDPGPGPL	DRERLYWELS	QLTNSITELG	PYTLDNRSLY
15010	15020	15030	15040	15050	15060
VNGFNPWSSV	PTTSTPGTST	VHLATSGTPS	SLPGHTAPVP	LLIPFTLNFT	ITDLHYEENM
15070	15080	15090	15100	15110	15120
QHPGSRKFNT	TERVLQGLLK	PLFKSTSVGP	LYSGCRLTLL	RPEKHGAATG	VDAICTLRDL
15130	15140	15150	15160	15170	15180
PTGPGDLRER	LYWELSQLTN	SVTELGPYTL	DRDSLTVNGF	THRSSVPTTS	IPGTSVAHLE
15190	15200	15210	15220	15230	15240
TSGTPASLPG	HTAPGPLLVP	FTLNFTITNL	QYEEDMRHPG	SRKFSTTERV	LQGLLKPLFK
15250	15260	15270	15280	15290	15300
NTSVSSLYSG	CRLTLRLPEK	DGAATRVDAV	CTHRPDPKSP	GLDRERLYWK	LSQLTHGITE
15310	15320	15330	15340	15350	15360
LGPYTLDRHS	LYVNGFTHQS	SMTTTRTPDT	STMHLATSRT	PASLSGPTTA	SPLLVLFTIN
15370	15380	15390	15400	15410	15420
FTITNLRYEE	NMHHPGSRKF	NTTERVLQGL	LRPVFKNTSV	GPLYSGCRLT	TLRPPKDGAA
15430	15440	15450	15460	15470	15480
TKVDAICTYR	PDPKSPGLDR	EQLYWELSQL	THSITELGPY	TQDRDSLTVN	GFTHRSSVPT
15490	15500	15510	15520	15530	15540
TSIPGTSAVH	LETSGTPASL	PGHTAPGPLL	VPFTLNFTIT	NLQYEEDMRH	PGSRKFNTTE
15550	15560	15570	15580	15590	15600
RVLQGLLKPL	FKSTSVGPLY	SGCRLTLRLP	EKRGAAATGVD	TICTHRLDPL	NPGLDREQLY
15610	15620	15630	15640	15650	15660
WELSKLTRGI	IELGPYLLDR	GSLYVNGFTH	RTSVPTTSTP	GTSTVDLGTS	GTPFSLPSPA
15670	15680	15690	15700	15710	15720
XXXPLLXPFT	XNXTITNLXX	XXXMXXPGSR	KFNTTERVLQ	TLLGPMFKNT	SVGLLYSGCR
15730	15740	15750	15760	15770	15780
LTLRLSEKDG	AATGVDAICT	HRLDPKSPGV	DREQLYWELS	QLTNGIKELG	PYTLDNRSLY
15790	15800	15810	15820	15830	15840
VNGFTHWIPV	PTSSTPGTST	VDLGSCTPSS	LPSPTTAGPL	LVPFTLNFTI	TNLKYEEDMH
15850	15860	15870	15880	15890	15900
CPGSRKFNTT	ERVLQSLLGP	MFKNTSVGGL	YSGCRLTLRL	SEKDGAATGV	DAICTHRLDP
15910	15920	15930	15940	15950	15960
KSPGVDRQL	YWELSQTNG	IKELGPYTL	RNSLYVNGFT	HQTSAPNTST	PGTSTVDLGT
15970	15980	15990	16000	16010	16020
SGTPSSLPS	TXXXPLLXPF	TXNXTITNLX	XXXXMXXPGS	RKFNTTEXVL	QGLLXPXFKN
16030	16040	16050	16060	16070	16080
XSVGXLYSGC	RLTXLRXEKX	GAATGXDAIC	XHXXXPKXPG	LXXEXLYWEL	SXLTXIXEL

FIG. 63 (cont'd)

16090	16100	16110	16120	16130	16140
GPYTLDRXSL	YVNGFTHWIP	VPTSSTPGTS	TVDLGSGTPS	SLPSPTTAGP	LLVPFTLNFT
16150	16160	16170	16180	16190	16200
ITNLKYEEDM	HCPGSRKFNT	TERVLQSLLG	PMFKNTSVGP	LYSGCRLTSL	RSEKDGAATG
16210	16220	16230	16240	16250	16260
VDAICTHRVD	PKSPGVDREQ	LYWELSQTIN	GIKELGPYTL	DRNSLYVNGF	THQTSAPNTS
16270	16280	16290	16300	16310	16320
TPGTSTVXXG	TSGTPSSXPX	XTSAGPLLVP	FTLNFTITNL	QYEEDMHHPG	SRKFNTTERTV
16330	16340	16350	16360	16370	16380
LQGLLGPMFK	NTSVGLLYSG	CRLTLRPEK	NGATTGMDAI	CTHRLDPKSP	GLXXEXLYWE
16390	16400	16410	16420	16430	16440
LSXLTXIXE	LGPYTLDRXS	LYVNGFTHXX	SXPTTSTPGT	STVXXGTSST	PSSXPXXTXX
16450	16460	16470	16480	16490	16500
XPLLXPFTXN	XTITNLXXXX	XXXPGRKFK	NTTERTVLQGL	LKPLFRNSSL	EYLYSGCRLA
16510	16520	16530	16540	16550	16560
SLRPEKDSSA	MAVDAICTHR	PDPEDLGLDR	ERLYWELSNL	TNGIQELGPY	TLDRNSLYVN
16570	16580	16590	16600	16610	16620
GFTHRSSMPT	TSTPGTSTVD	VGTSSTPSSS	PSPTTAGPLL	IPFTLNFTIT	NLQYGEDMGH
16630	16640	16650	16660	16670	16680
PGSRKFNTTE	RVLQGLLGPI	FKNTSVGPLY	SGCRLTSLRS	EKDGAATGVD	AICIHHLDPK
16690	16700	16710	16720	16730	16740
SPGLNRERLY	WELSQTNGI	KELGPYTLDR	NSLYVNGFTH	RTSVPTTSTP	GTSTVDLGTS
16750	16760	16770	16780	16790	16800
GTPFSLPSPA	TAGPLLVLFT	LNFTITNLKY	EEDMHRPGSR	KFNTTERTVLQ	TLLGPMFKNT
16810	16820	16830	16840	16850	16860
SVGLLYSGCR	LTLRSEKDG	AATGVDAICT	HRLDPKSPGL	XXEXLYWELS	XLTXIXELG
16870	16880	16890	16900	16910	16920
PYTLDRXSLY	VNGFTHXXSX	PTTSTPGTST	VXXGTSSTPS	SXPXTXXXP	LLXPFTXNXT
16930	16940	16950	16960	16970	16980
ITNLXXXXXM	XXPGSRKFNT	TERVLQGLLR	PVFKNTSVGP	LYSGCRLTLL	RPKKDGAATK
16990	17000	17010	17020	17030	17040
VDAICTYRPD	PKSPGLDREQ	LYWELSQTTH	SITELGPYTQ	DRDSLYVNGF	THRSSVPTTS
17050	17060	17070	17080	17090	17100
IPGTSVAHLE	TTGTPSSFPG	HTEPGPLLIP	FTFNFTITNL	RYEENMQHPG	SRKFNTTERTV
17110	17120	17130	17140	17150	17160
LQGLLTPLFK	NTSVGPLYSG	CRLTLRPEK	QEAATGVDTI	CTHRVDPIGP	GLDRERLYWE
17170	17180	17190	17200	17210	17220
LSQLTNSITE	LGPYTLDRDS	LYVDGFNPWS	SVPTTSTPGT	STVHLATSGT	PSPLPGHTAP
17230	17240	17250	17260	17270	17280
VPLLIPFTLN	FTITDLHYEE	NMQHPGRKFK	NTTERTVLQGL	LKPLFKSTSV	GPLYSGCRLT
17290	17300	17310	17320	17330	17340
LLRPEKHGAA	TGVDAICTLR	LDPTGPGLDR	ERLYWELSQT	TNSITELGPY	TLDRDSLYVN

FIG. 63 (cont'd)

17350	17360	17370	17380	17390	17400
GFNPWSSVPT	TSTPGTSTVH	LATSGTPSSL	PGHTTAGPLL	VPFTLNFTIT	NLKYEEDMHC
17410	17420	17430	17440	17450	17460
PGSRKFNTTE	RVLQSLHGPM	FKNTSVGPLY	SGCRLTLLRS	EKDGAATGVD	AICTHRLDPK
17470	17480	17490	17500	17510	17520
SPGLXXEXLY	WELSXLTXXI	XELGPYTLDR	XSLYVNGFTH	XXSXPTTSTP	GTSTVXXGTS
17530	17540	17550	17560	17570	17580
GTPSSXPXXT	XXXPLLXPFT	XNXSTITNLXX	XXXMXXPGSR	KFNTTEXVLQ	GLLXPXFKNX
17590	17600	17610	17620	17630	17640
SVGXLYSGCR	LTXLRXEKXG	AATGXDAICX	HXXXPKXPGL	XXEXLYWELS	XLTNSTITELG
17650	17660	17670	17680	17690	17700
PYTLDLDRSLY	VNGFTHRSSM	PTTSIPGTSA	VHLETSGTPA	SLPGHTAPGP	LLVPFTLNFT
17710	17720	17730	17740	17750	17760
ITNLQYEEDM	RHPGSRKFNT	TERVLQGLLK	PLFKSTSVGP	LYSGCRLTLL	RPEKRGAAATG
17770	17780	17790	17800	17810	17820
VDTICTHRLD	PLNPGLXXEX	LYWELSXLTX	XIXELGPYTL	DRXSLYVNGF	THXXSXPTTS
17830	17840	17850	17860	17870	17880
TPGTSTVXXG	TSGTPSSXPX	XTXXXPLLXP	FTXNXTITNL	XXXXXXMXXPG	SRKFNTTEXV
17890	17900	17910	17920	17930	17940
LQGLLXPXFK	NXSVGXLYSG	CRLTXLRXEK	XGAATGXDAI	CXHXXXPKXP	GLXXEXLYWE
17950	17960	17970	17980	17990	18000
LSXLTXXIXE	LGPYTLDLDRXS	LYVNGFHPRS	SVPTTSTPGT	STVHLATSGT	PSSLPGHTAP
18010	18020	18030	18040	18050	18060
VPLLIPFTLN	FTITNLHYEE	NMQHPGSRKF	NTTERVLQGL	LGPMFKNTSV	GLLYSGCRLT
18070	18080	18090	18100	18110	18120
LLRPEKNGAA	TGMDAICSHR	LDPKSPGLXX	EXLYWELSXL	TXXIXELGPY	TLDRXSILYVN
18130	18140	18150	18160	18170	18180
GFTHXXSXPT	TSTPGTSTVX	XGTSGTPSSX	PXXTXXXPLL	XPFTXNXTIT	NLXXXXMXX
18190	18200	18210	18220	18230	18240
PGSRKFNTTE	XVLQGLLXPX	FKNXSVGXLY	SGCRLTXLRX	EKXGAATGXD	AICXHXXXPK
18250	18260	18270	18280	18290	18300
XPGLXXEXLY	WELSXLTXXI	XELGPYTLDR	XSLYVNGFTH	QNSVPTTSTP	GTSTVYWATT
18310	18320	18330	18340	18350	18360
GTPSSFPGHT	EPGPLLIPFT	FNFTITNLHY	EENMQHPGSR	KFNTTERVLQ	GLLTPLFKNT
18370	18380	18390	18400	18410	18420
SVGPLYSGCR	LTLLRPEKQE	AATGVDTICT	HRVDPIGPGL	XXEXLYWELS	XLTXIXELG
18430	18440	18450	18460	18470	18480
PYTLDLDRSLY	VNGFTHXXSX	PTTSTPGTST	VXXGTSGTPS	SXPXXTXXXP	LLXPFTXNXT
18490	18500	18510	18520	18530	18540
ITNLXXXXXM	XXPGSRKFNT	TEXVLQGLLX	PXFKNXSVGX	LYSGCRLTXL	RXEKXGAATG
18550	18560	18570	18580	18590	18600
XDAICXHXXX	PKXPGLXXEX	LYWELSXLTX	XIXELGPYTL	DRXSLYVNGF	THRSSVPTTS

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FIG. 63 (cont'd)

18610	18620	18630	18640	18650	18660
SPGTSTVHLA	TSGTPSSSLPG	HTAPVPLLIP	FTLNFTITNL	HYEENMQHPG	SRKFNTTERV
18670	18680	18690	18700	18710	18720
LQGLLKPLFK	STSVGPLYSG	CRLTLRPEK	HGAATGVDAI	CTLRDPTGP	GLXXEXLYWE
18730	18740	18750	18760	18770	18780
LSXLTXIXE	LGPYTLDRXS	LYVNGFTHXX	SXPTTSTPGT	STVXXGTSST	PSSXPXTXX
18790	18800	18810	18820	18830	18840
XPLLPFTXN	XTITNLXXXX	XXXXPGSRKF	NTTEXVLQGL	LXPXFKNXSV	GXLYSGCRLT
18850	18860	18870	18880	18890	18900
XLRXEKXGAA	TGXDAICXHX	XXPKXPGLXX	EXLYWELSXL	TXXIXELGPY	TLDRXSLYVN
18910	18920	18930	18940	18950	18960
GFTHRTSVPT	TSTPGTSTVH	LATSGTPSSL	PGHTAPVPLL	IPFTLNFTIT	NLQYEEDMHR
18970	18980	18990	19000	19010	19020
PGSRKFNTTE	RVLQGLLSPI	FKNSSVGPLY	SGCRLTSLRP	EKDGAATGMD	AVCLYHPNPK
19030	19040	19050	19060	19070	19080
RPGLDREQLY	CELSQLTHNI	TELGPYSLDR	DSLYVNGFTH	QNSVPTTSTP	GTSTVYWATT
19090	19100	19110	19120	19130	19140
GTPSSFPGHT	XXXPLLXPFT	XNXTITNLXX	XXXMXXPGSR	KFNTTEXVLQ	GLLXPXFKNX
19150	19160	19170	19180	19190	19200
SVGXLYSGCR	LTXLRXEKXG	AATGXDAICX	HXXXPKXPGL	XXEXLYWELS	XLTXIXELG
19210	19220	19230	19240	19250	19260
PYTLDRXSLY	VNGFTHWSSG	LTTSTPWTST	VDLGTSGTPS	PVPSPTTAGP	LLVPFTLNFT
19270	19280	19290	19300	19310	19320
ITNLQYEEDM	HRPGSRKFNA	TERVLQGLLS	PIFKNTSVGP	LYSGCRLTLL	RPEKQEAATG
19330	19340	19350	19360	19370	19380
VDTICTHRVD	PIGPGLXXEX	LYWELSXLTX	XIXELGPYTL	DRXSLYVNGF	THXXSXPTTS
19390	19400	19410	19420	19430	19440
TPGTSTVXXG	TSGTPSSXPX	XTXXXPLLXP	FTXNXTITNL	XXXXXMXXPG	SRKFNTTEXV
19450	19460	19470	19480	19490	19500
LQGLLXPXFK	NXSVGXLYSG	CRLTXLRXEK	XGAATGXDAI	CXHXXXPKXP	GLXXEXLYWE
19510	19520	19530	19540	19550	19560
LSXLTXIXE	LGPYTLDRXS	LYVNGFTHRS	FGLTTSTPWT	STVDLGTSGT	PSPVPSPTTA
19570	19580	19590	19600	19610	19620
GPLLVPFTLN	FTITNLQYEE	DMHRPGSRKF	NTTERVLQGL	LTPLFRNTSV	SSLYSGCRLT
19630	19640	19650	19660	19670	19680
LLRPEKDGAA	TRVDAVCTHR	PDPKSPGLXX	EXLYWELSXL	TXXIXELGPY	TLDRXSLYVN
19690	19700	19710	19720	19730	19740
GFTHXXSXPT	TSTPGTSTVX	XGTSSTPSSX	PXXTXXXPLL	XPFTXNXTIT	NLXXXXMXX
19750	19760	19770	19780	19790	19800
PGSRKFNTTE	XVLQGLLXPX	FKNXSVGXLY	SGCRLTXLRX	EKXGAATGXD	AICXHXXXPK
19810	19820	19830	19840	19850	19860
XPGLXXEXLY	WELSXLTXXI	XELGPYTLDR	XSLYVNGFTH	WIPVPTSSTP	GTSTVDLGSG

FIG. 63 (cont'd)

19870	19880	19890	19900	19910	19920
TPSSLPSPTT	AGPLLVPFTL	NFTITNLQYG	EDMGHPGSRK	FNTTTERVLQG	LLGP1FKNTS
19930	19940	19950	19960	19970	19980
VGPLYSGCRL	TSLRSEKDGA	ATGVDAICIH	HLDPKSPGLX	XEXLYWELSX	LTXXIXELGP
19990	20000	20010	20020	20030	20040
YTLDRXSlyV	NGFTHXXSXP	TTSTPGTSTV	XXGTSGTPSS	XPXXTXXXPL	LXPFTXNXTI
20050	20060	20070	20080	20090	20100
TNLXXXXXXMX	XPGSRKFNTT	EXVLQGLLXP	XFKNXSVGXL	YSGCRLTXLR	XEXXGAATGX
20110	20120	20130	20140	20150	20160
DAICXHXXP	KXPGLXXEXL	YWELSXLTX	IXELGPYTLD	RXSLYVNGFT	HQTFAPNTST
20170	20180	20190	20200	20210	20220
PGTSTVDLGT	SGTPSSLPSP	TSAGPLLVPF	TLNFTITNLQ	YEEDMHHPGS	RKFNTTTERVL
20230	20240	20250	20260	20270	20280
QGLLGPMFKN	TSVGLLYSGC	RLTLRPEKN	GAATRVDAVC	THRPDPKSPG	LXXEXLYWEL
20290	20300	20310	20320	20330	20340
SXLTXIXEL	GPYTLDXSL	YVNGFTHXXS	XPTTSTPGTS	TVXXGTSGTP	SSXPXTAPV
20350	20360	20370	20380	20390	20400
PLLIPFTLNF	TITNLHYEEN	MQHPGSRKFN	TTERVLQGLL	KPLFKSTSVG	PLYSGCRLTL
20410	20420	20430	20440	20450	20460
LRPEKHGAAT	GVDAICTLRL	DPTGPGLDRE	RLYWELSQT	NSVTELGPYT	LDRDSLTVNG
20470	20480	20490	20500	20510	20520
FTQRSSVPTT	SIPGTSAVHL	ETSGTPASLP	GHTAPGPLLV	PFTLNFTITN	LQYEVDMRHP
20530	20540	20550	20560	20570	20580
GSRKFNTER	VLQGLLKPLF	KSTSVGPLYS	GCRLTLRPE	KRGATGVDT	ICTHRLDPLN
20590	20600	20610	20620	20630	20640
PGLDREQLYW	ELSKLTRGII	ELGPYLLDRG	SLYVNGFTHR	NFVPITSTPG	TSTVHLGTSE
20650	20660	20670	20680	20690	20700
TPSSLPRPIV	PGPLLVPFTL	NFTITNLQYE	EAMRHGSRK	FNTTTERVLQG	LLRPLFKNTS
20710	20720	20730	20740	20750	20760
IGPLYSSCRL	TLLRPEKDKA	ATRVDAICTH	HPDPQSPGLN	REQLYWELSQ	LTHGITELG
20770	20780	20790	20800	20810	20820
YTLDRDSLIV	DGFTHWSPIP	TTSTPGTSIV	NLGTSGIPPS	LPETTXXXPL	LXPFTXNXTI
20830	20840	20850	20860	20870	20880
TNLXXXXXXMX	XPGSRKFNTT	ERVLQGLLKP	LFKSTSVGPL	YSGCRLTLR	PEKDG VATRV
20890	20900	20910	20920	20930	20940
DAICTHRPDP	KIPGLDRQQL	YWELSQTLS	ITELGPYTLD	RDSLTVNGFT	QRSSVPTTST
20950	20960	20970	20980	20990	21000
PGTFTVQPET	SETPSSLPGP	TATGPVLLPF	TLNFTITNLQ	YEEDMHRPGS	RKFNTTTERVL
21010	21020	21030	21040	21050	21060
QGLLMPLFKN	TSVSSLYSGC	RLTLRPEKD	GAATRVDAVC	THRPDPKSPG	LDRERLYWKL
21070	21080	21090	21100	21110	21120
SQLTHGITE	GPYTLDRHSL	YVNGFTHQSS	MTTTRTPDTS	TMHLATS RTP	ASLSGPTTAS

FIG. 63 (cont'd)

21130	21140	21150	21160	21170	21180
PLLVLFITNF	TITNLRYEEN	MHHPGSRKFN	TTERVLQGLL	RPVFKNTSVG	PLYSGCRLTL
21190	21200	21210	21220	21230	21240
LRPKKDGAAT	KVDAICTYRP	DPKSPGLDRE	QLYWELSQLT	HSITELGPYT	LDRDSLYVNG
21250	21260	21270	21280	21290	21300
FTQRSSVPTT	SIPGTPTVDL	GTSGTPVSKP	GPSAASPLL	LFTLNFTITN	LYEENMQHP
21310	21320	21330	21340	21350	21360
GSRKFNTER	VLQGLLRSLF	KSTSVGPLYS	GCRLTLRPE	KDGTATGVDA	ICTHHPDPKS
21370	21380	21390	21400	21410	21420
PRLDREQLYW	ELSQLTHNIT	ELGHYALDND	SLFVNGFTHR	SSVSTTSTPG	TPTVYLGASK
21430	21440	21450	21460	21470	21480
TPASIFGPSA	ASHLLILFTL	NFTITNLRYE	ENMWPGSRKF	NTTERVLQGL	LRPLFKNTSV
21490	21500	21510	21520	21530	21540
GPLYSGSRLT	LLRPEKDGEA	TGVDAICTHR	PDPTGPGLDR	EQLYLELSQL	THSITELGPY
21550	21560	21570	21580	21590	21600
TLDRDSLYVN	GFTHRSSVPT	TSTGVVSEEP	FTLNFTINNL	RYMADMGQPG	SLKFNITDNV
21610	21620	21630	21640	21650	21660
MKHLSPFLQ	RSSLGARYTG	CRVIALRSVK	NGAETRVDLL	CTYLQPLSGP	GLPIKQVFHE
21670	21680	21690	21700	21710	21720
LSQQTHGITR	LGPYSLDKDS	LYLNGYNEPG	LDEPPTTPKP	ATTFLPPLSE	ATTAMGYHLK
21730	21740	21750	21760	21770	21780
TLTLNFTISN	LQYSPDMGKG	SATFNSTEGV	LQHLLRPLFQ	KSSMGPFYLG	CQLISLRPEK
21790	21800	21810	21820	21830	21840
DGAATGVDTT	CTYHPDPVGP	GLDIQQLYWE	LSQLTHGVTQ	LGIFYVLDLRS	LFINGYAPQN
21850	21860	21870	21880	21890	21900
LSIRGEYQIN	FHIVNWNLSN	PDPTSSEYIT	LLRDIQDKVT	TLYKGSQQLHD	TFRFCLVTNL
21910	21920	21930	21940	21950	21960
TMDSVLVTVK	ALFSSNLDPS	LVEQVFLDKT	LNASFHWLGS	TYQLVDIHVT	EMESSVYQPT
21970	21980	21990	22000	22010	22020
SSSSTQHFYL	NFTITNLPYS	QDKAQPGTTN	YQRNKRNIED	ALNQLFRNSS	IKSYFSDCQV
22030	22040	22050	22060	22070	22080
STFRSVPNRH	HTGVDSL CNF	SPLARRVDRV	AIYEEFLRMT	RNGTQLQNFT	LDRSSVLVDG
22090	22100	22110	22120	22130	22140
YSPNRNEPLT	GNSDLPFWAV	ILIGLAGLLG	LITCLICGVL	VTTRRRKKEG	EYNVQQQCPG
22150					
YYQSHLDLED	LQ				

FIG. 63 (cont'd)***Transthyretin***

10	20	30	40	50	60
MASHRLLLLC	LAGLVFVSEA	GPTGTGESKC	PLMVKVLDAV	RGSPAINVAV	HVFRKAADDT
70	80	90	100	110	120
WEPFASGKTS	ESGELHGLTT	EEEFVEGIYK	VEIDTKSYWK	ALGISPFHEH	AEVVFTANDS
130	140				
GPRRYTIAAL	LSPYSYSTTA	VVTNPKE			

Transferrin

10	20	30	40	50	60
MRLAVGALLV	CAVLGLCLAV	PDKTVRWCAV	SEHEATKCQS	FRDHMKSVIP	SDGPSVACVK
70	80	90	100	110	120
KASYLDCIRA	IAANEADAVT	LDAGLVYDAY	LAPNNLKPVV	AEFYGSKEDP	QTFYYAVAVV
130	140	150	160	170	180
KKDSGFQMNQ	LRGKKSCHTG	LGRSAGWNIP	IGLLYCDLPE	PRKPLEKAVA	NFFSGSCAPC
190	200	210	220	230	240
ADGTDFFPQLC	QLCPGCGCST	LNQYFGYSGA	FKCLKDGAGD	VAFVKHSTIF	ENLANKADRD
250	260	270	280	290	300
QYELLCLDNT	RKPVDEYKDC	HLAQVPSHTV	VARSIGGKED	LIWELLNQAQ	EHFGKDKSKE
310	320	330	340	350	360
FQLFSSPHGK	DLLFKDSAAG	FLKVPPRMDA	KMYLGYEYVT	AIRNLREGTC	PEAPTDECKP
370	380	390	400	410	420
VKWCALSHHE	RLKCDEWSVN	SVGKIECVSA	ETTEDCIAKI	MNGEADAMSL	DGGFVYIAGK
430	440	450	460	470	480
CGLVPVLAEN	YNKSDNCEDT	PGAGYFAVAV	VKKSASDLTW	DNLKGKKSCH	TAVGRTAGWN
490	500	510	520	530	540
IPMGLLYNKI	NHCRFDEFFS	EGCAPGSKKD	SSLCKLCMGS	GLNLCEPNNK	EGYYGYTGAF
550	560	570	580	590	600
RCLVEKGDVA	FVKHQTVPQN	TGGKNPDPWA	KNLNEKDYEL	LCLDGTRKPV	EEYANCHLAR
610	620	630	640	650	660
APNHAVVTRK	DKEACVHKIL	RQQQHLFGSN	VTDCSGNFCL	FRSETKDLLF	RDDTVCLAKL
670	680	690			
HDRNTYEKYL	GEEYVKAVGN	LRKCSTSSLL	EACTFRRP		

FIG. 63 (cont'd)

Apolipoprotein A1

10	20	30	40	50	60
MKAAVLT LAV	LELTGSQARH	FWQQDEPPQS	PWDRVKDLAT	VYVDVLKDSG	RDYVSQFEGS
70	80	90	100	110	120
ALGKQLNLKL	LDNWDSVTST	FSKLREQLGP	VTQEFWDNLE	KETEGLRQEM	SKDLEEVKAK
130	140	150	160	170	180
VQPYLDDFQK	KWQEEMEL YR	QKVEPLRAEL	QEGARQKLHE	LQEKLSPLGE	EMRDRARAHV
190	200	210	220	230	240
DALRTHLAPY	SDELRQRLAA	RLEALKENG G	ARLAEYHAKA	TEHLSTLSEK	AKPALEDLRQ
250	260				
GLLPVLESEK	VSFLSALEEY	TKKLNTQ			

 β -2-microglobulin

10	20	30	40	50	60
MSRSVALAVL	ALLSLSGLEA	IQRTPKIQVY	SRHPAENGKS	NFLNCYVSGF	HPSDIEVDLL
70	80	90	100	110	
KNGERIEKVE	HSDLSFSKDW	SFYLLYYTEF	TPTEKDEYAC	RVNHVTL SQP	KIVKWDRDM

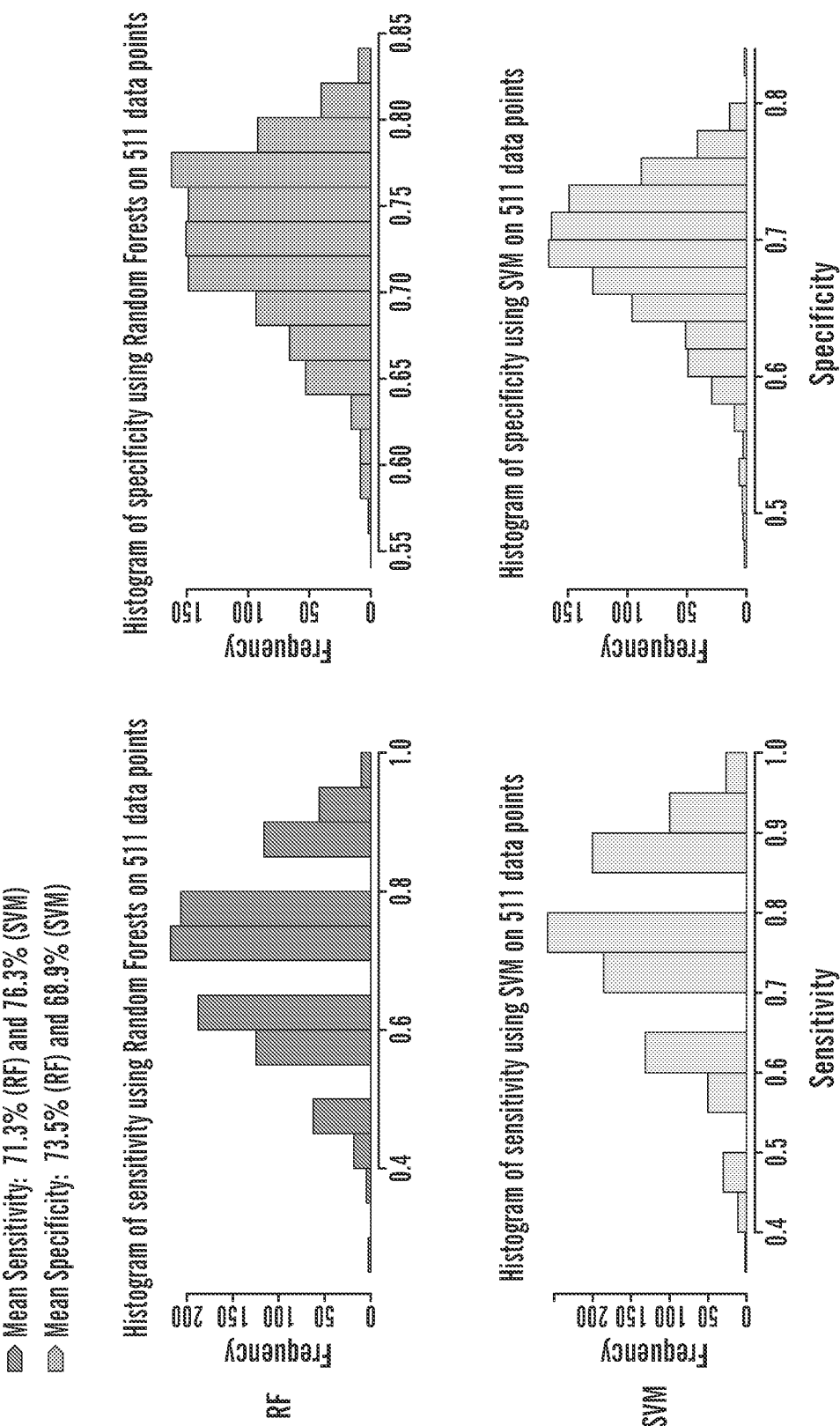


FIG. 64

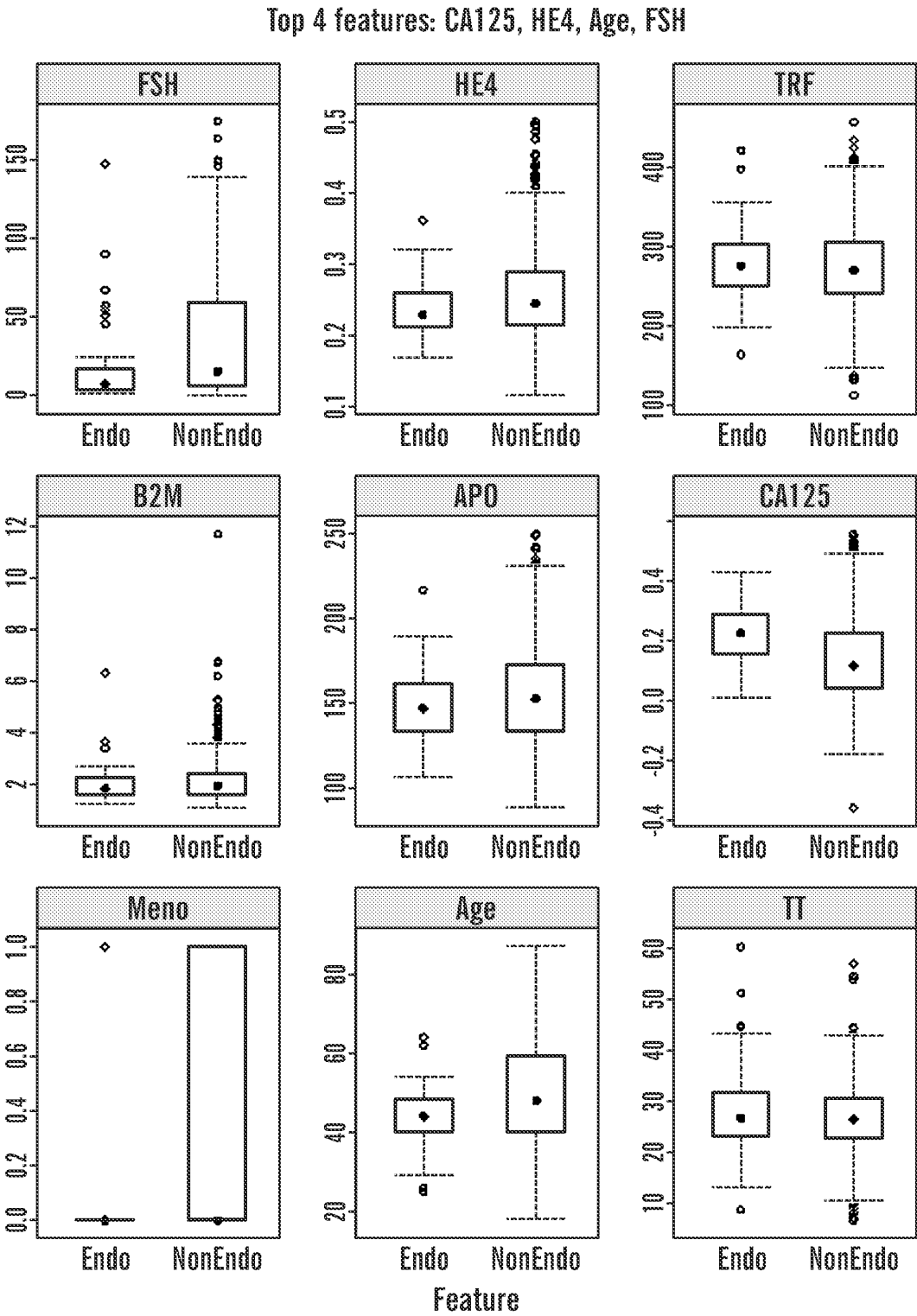
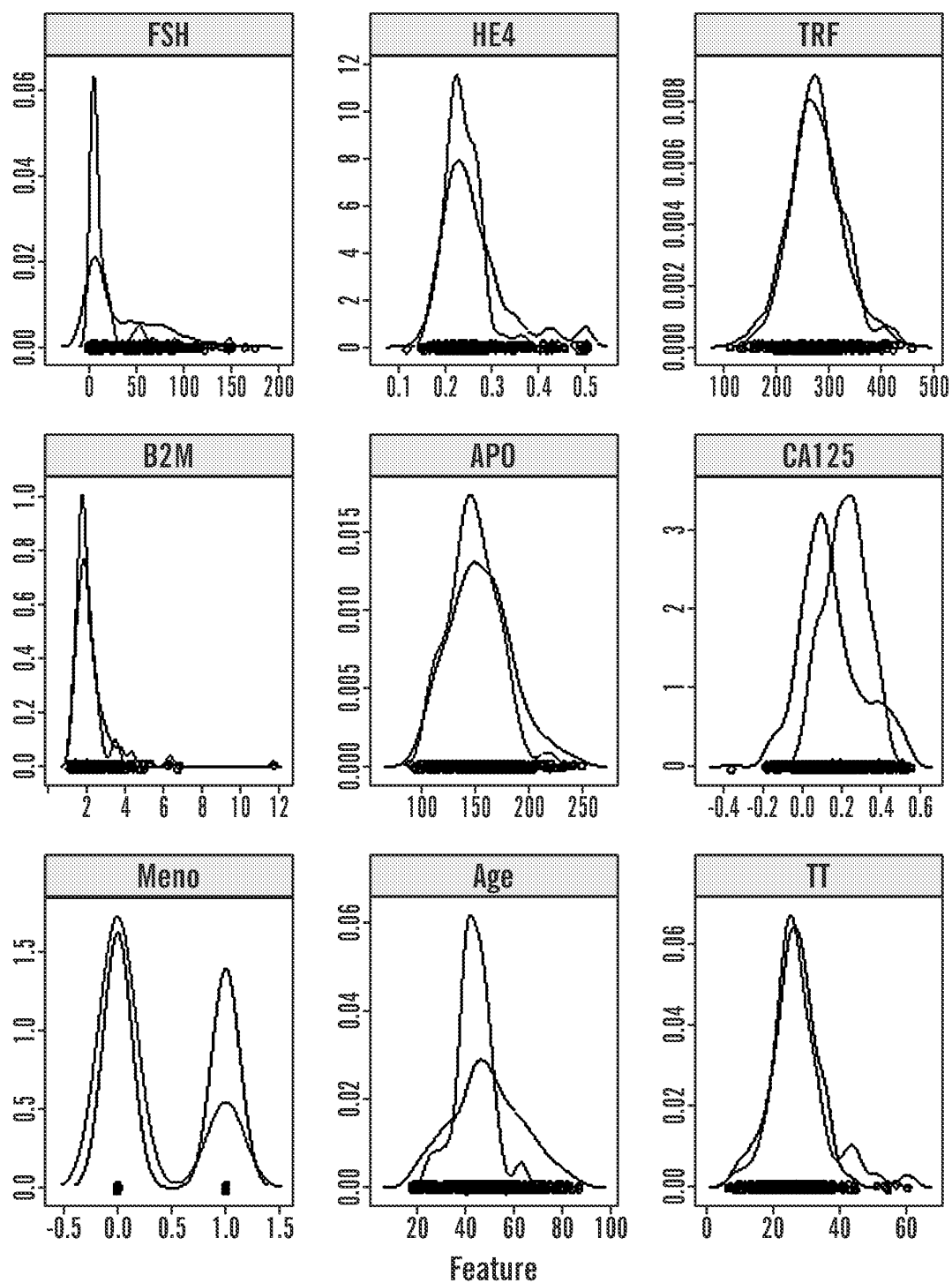


FIG. 65

**FIG. 65 (cont.)**

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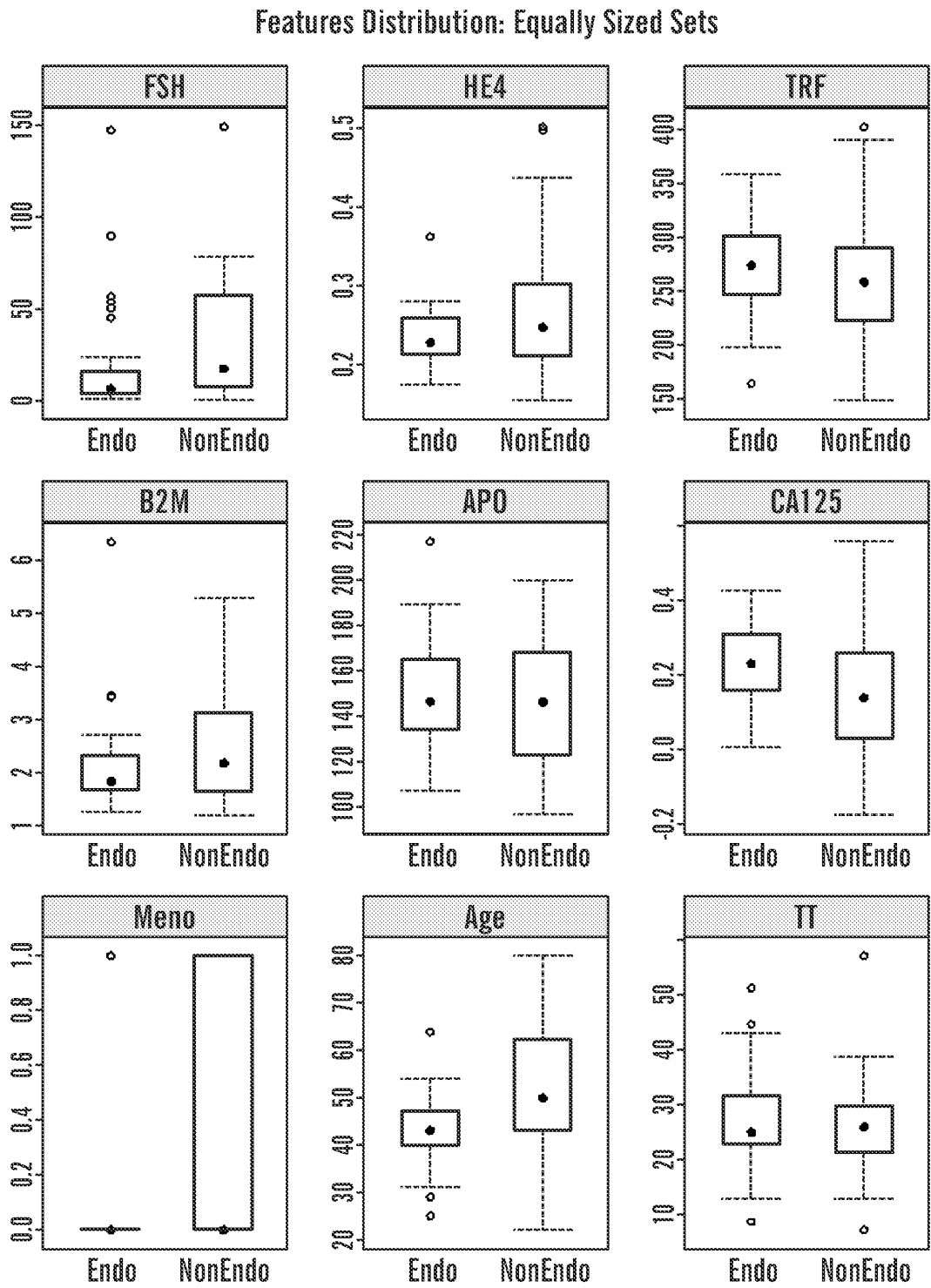
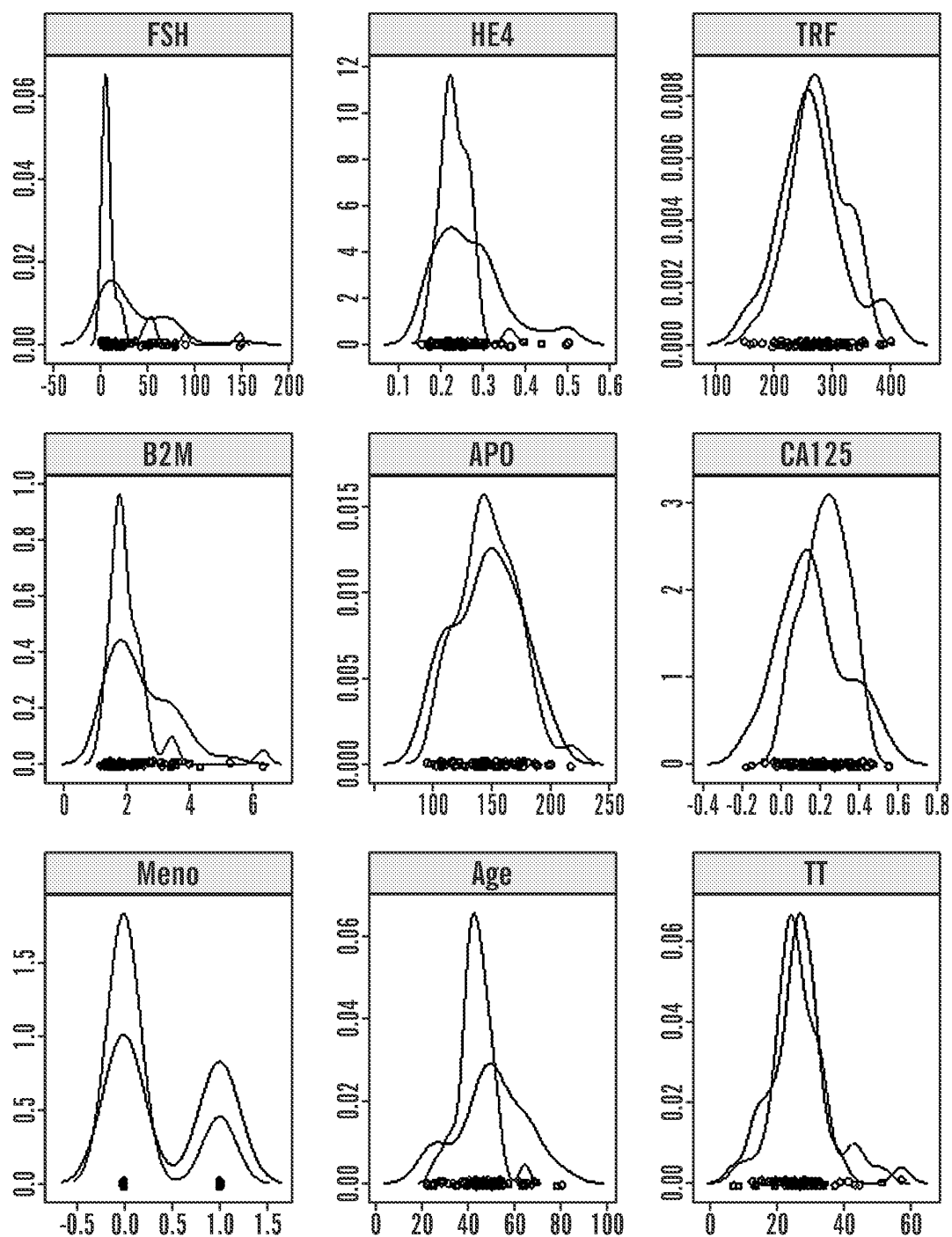


FIG. 66

**FIG. 66 (cont.)**

SUBSTITUTE SHEET (RULE 26)

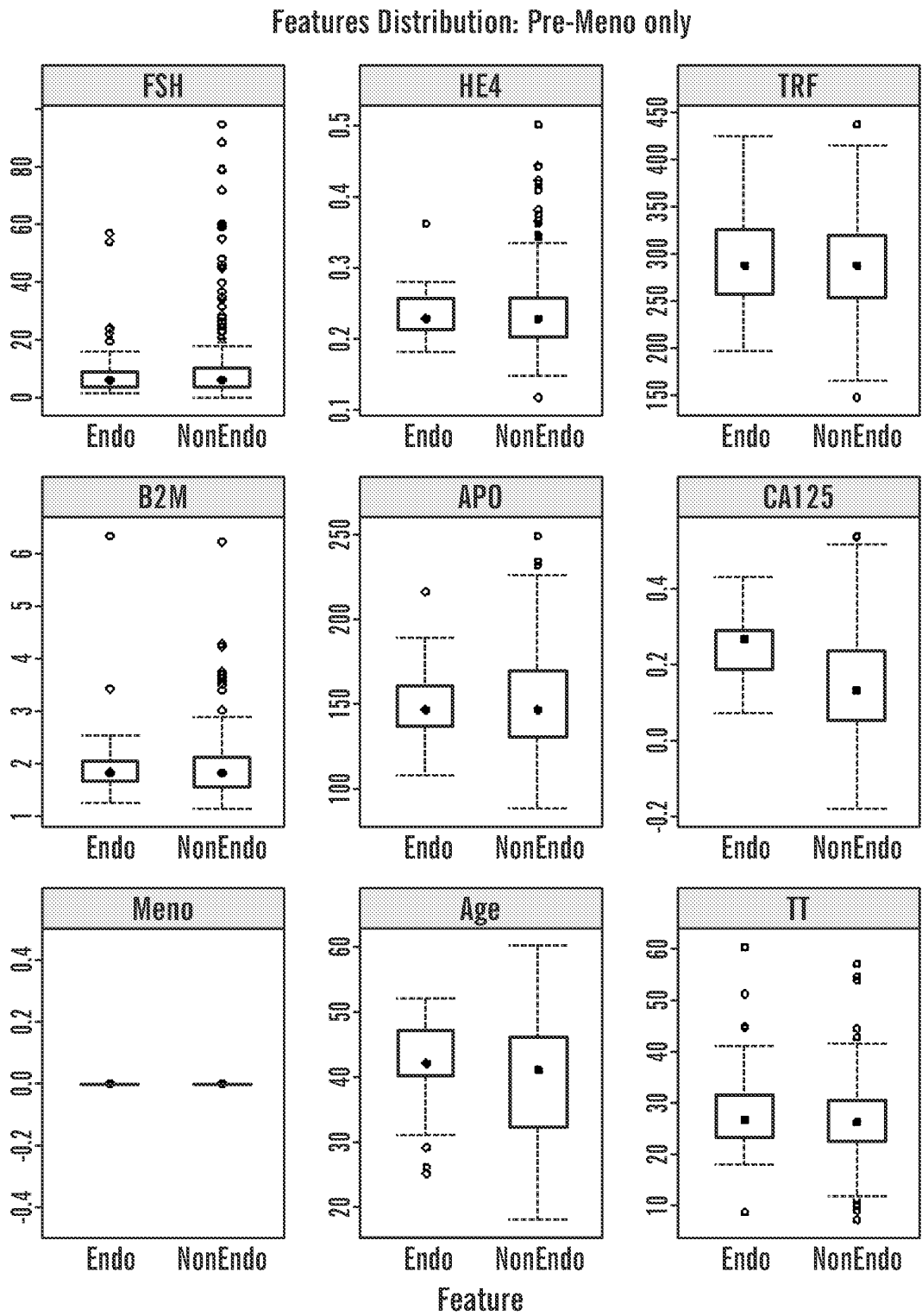
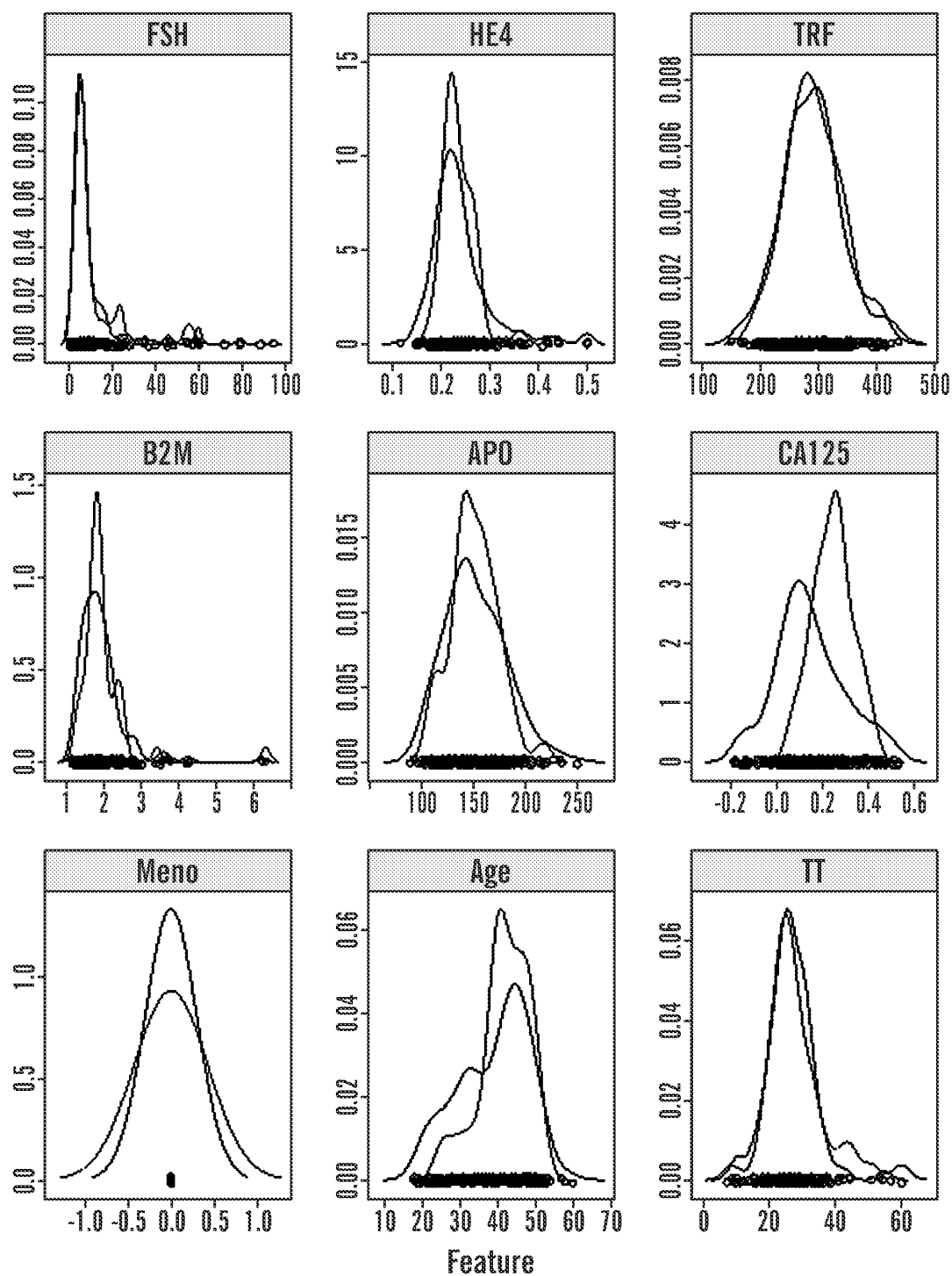


FIG. 67

**FIG. 67 (cont.)**

SUBSTITUTE SHEET (RULE 26)

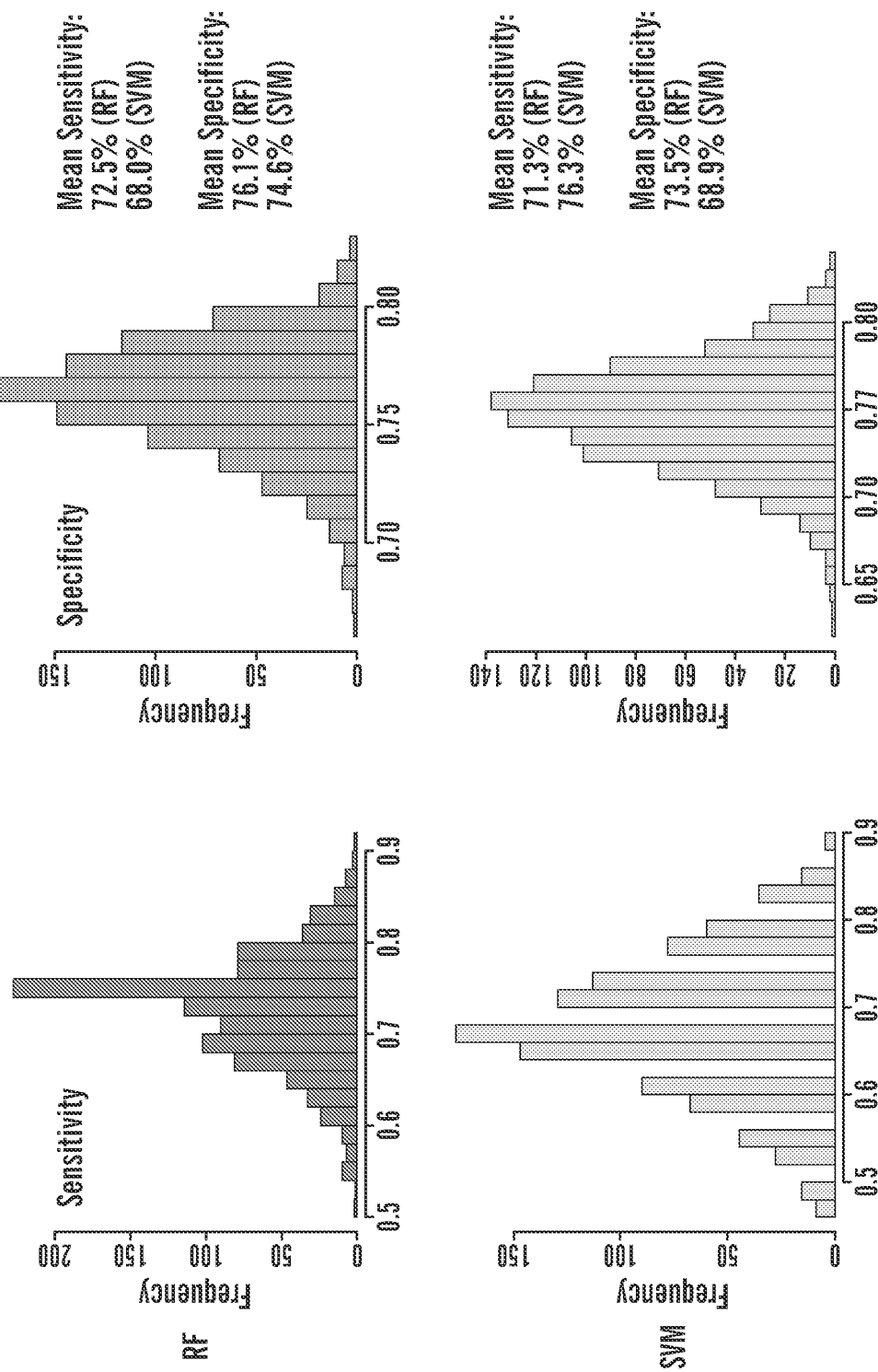


FIG. 68

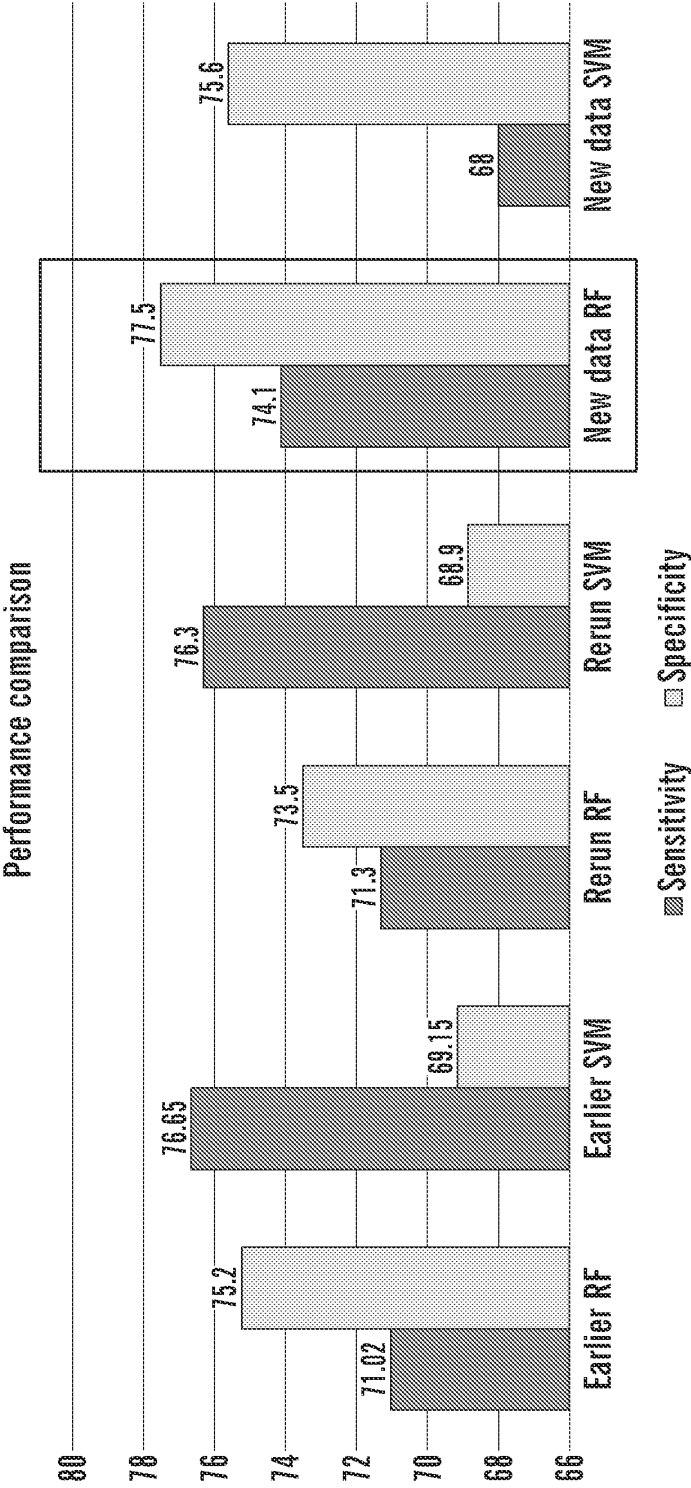


FIG. 69

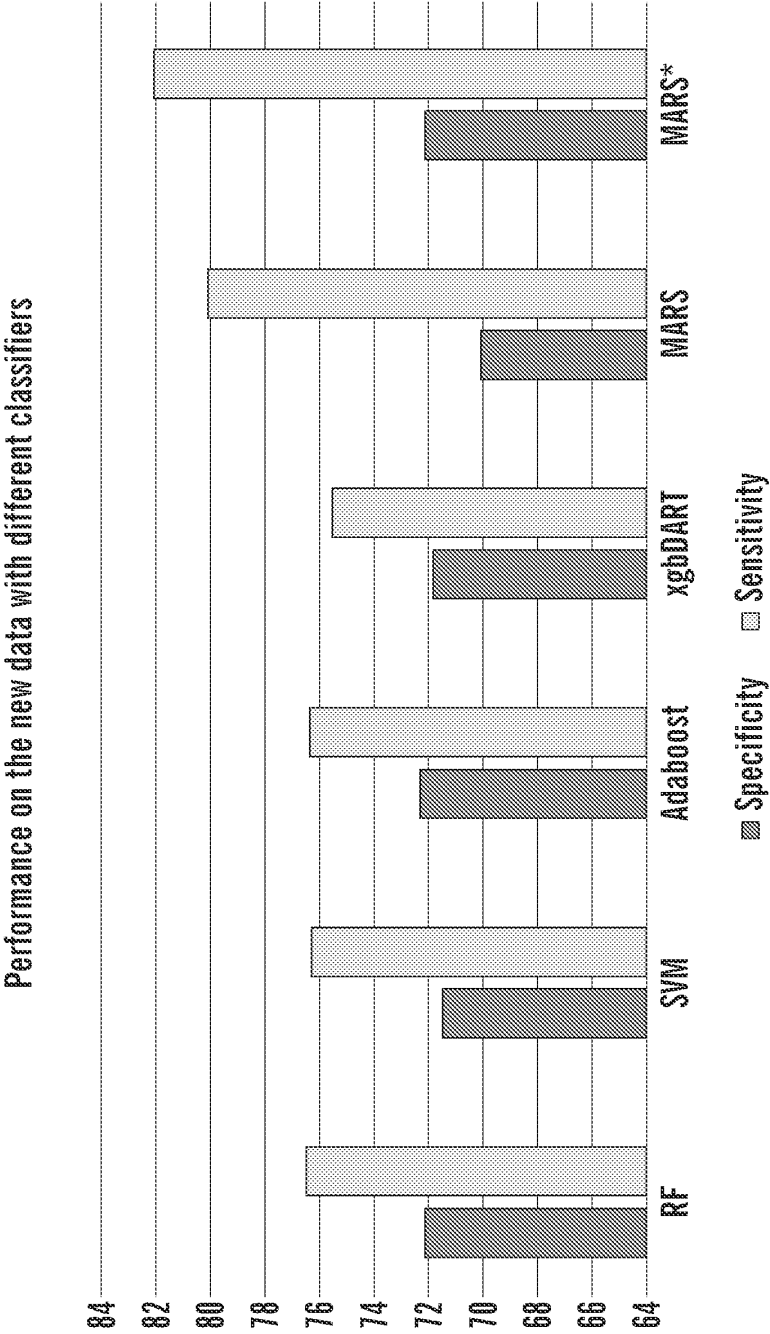
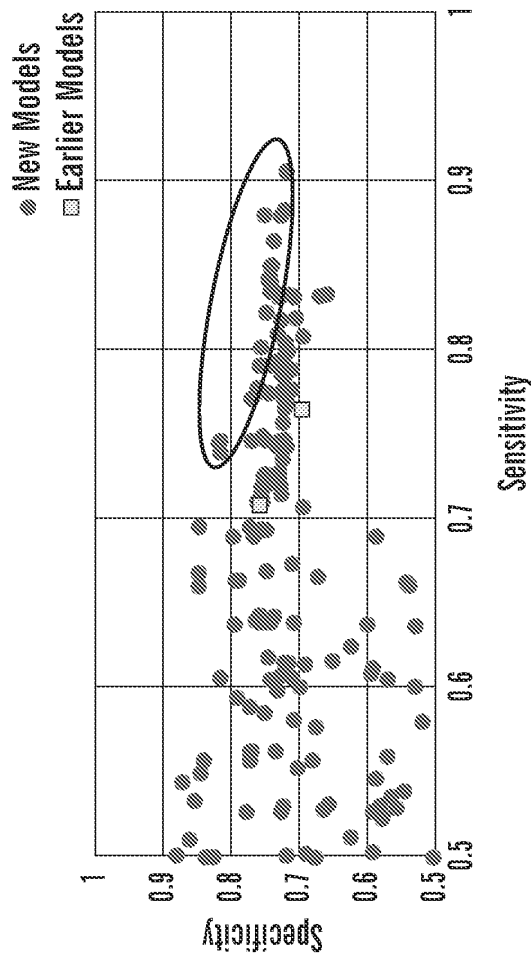


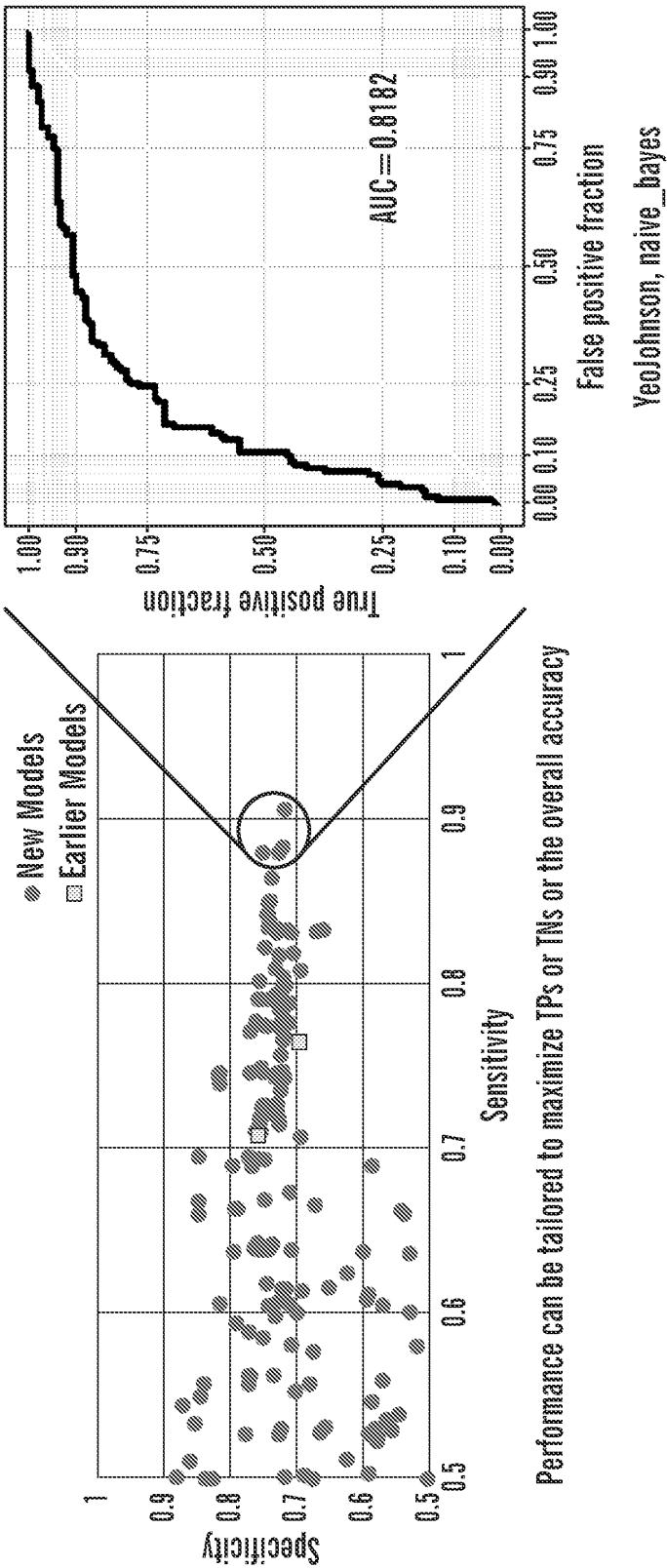
FIG. 70

Some Top Classification Models		
Processing technique (15), Classifier (65)	Sensitivity	Specificity
BoxCox, rda	0.906	0.713
YeoJohnson, naive_bayes	0.885	0.748
corr, avNNet	0.864	0.733
YeoJohnson, rda	0.88	0.722
PCA, nnet	0.88	0.716
pca, mlpWeightDecay	0.745	0.813
center, avNNet	0.738	0.811
BoxCox, naive_bayes	74.6	0.811
scale, avNNet	0.804	0.733



Each dot represents a classification model, averaged over 100 iterations.
Total of 975 models were trained.

FIG. 71



YeJohnson, naive_bayes

FIG. 72

Perceptrons linked into a deep neural network (deep learning)

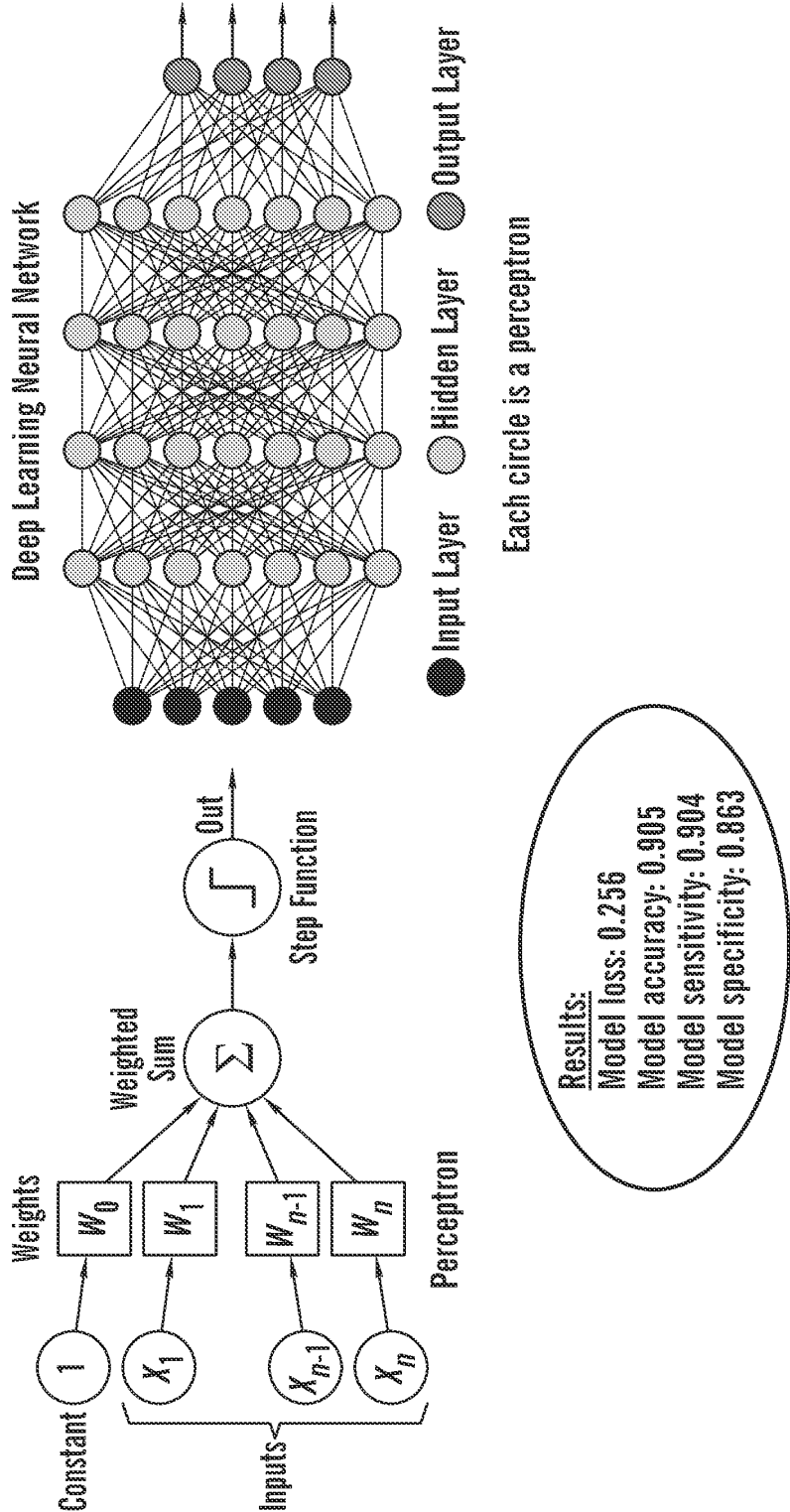
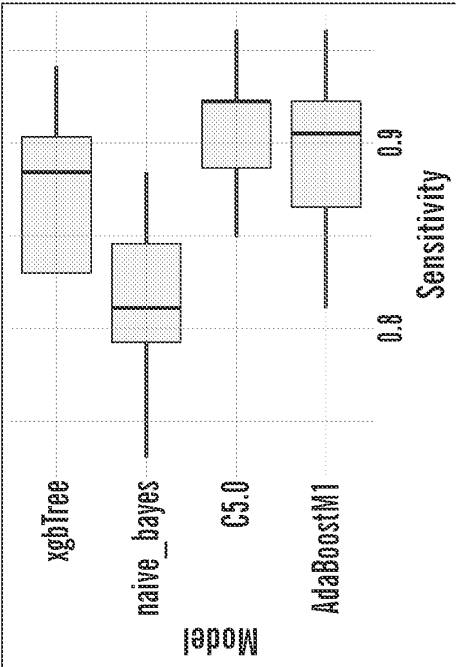


FIG. 73

Data sets: Bristow, 522
AdaBoost M1
C5.0
Naïve Bayesian classifier
Extreme gradient boosted tree classifier

Sensitivity

Model	min	max	median	mean	sd	n
AdaBoost.M1	0.811	0.962	0.906	0.893	0.057	5
C5.0	0.849	0.962	0.923	0.909	0.043	5
naive_bayes	0.731	0.885	0.811	0.813	0.058	5
xgbTree	0.830	0.942	0.885	0.878	0.049	5



Specificity

Model	min	max	median	mean	sd	n
AdaBoost.M1	0.788	0.904	0.792	0.828	0.054	5
C5.0	0.731	0.887	0.865	0.840	0.065	5
naive_bayes	0.788	0.868	0.827	0.828	0.038	5
xgbTree	0.769	0.904	0.849	0.851	0.056	5

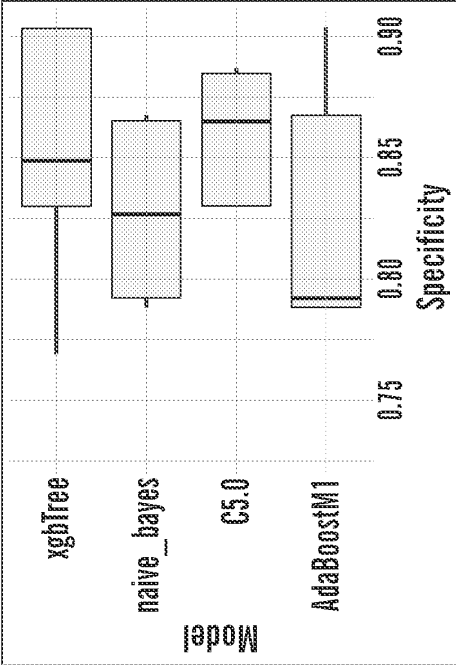


FIG. 74

Data sets: Correllogic

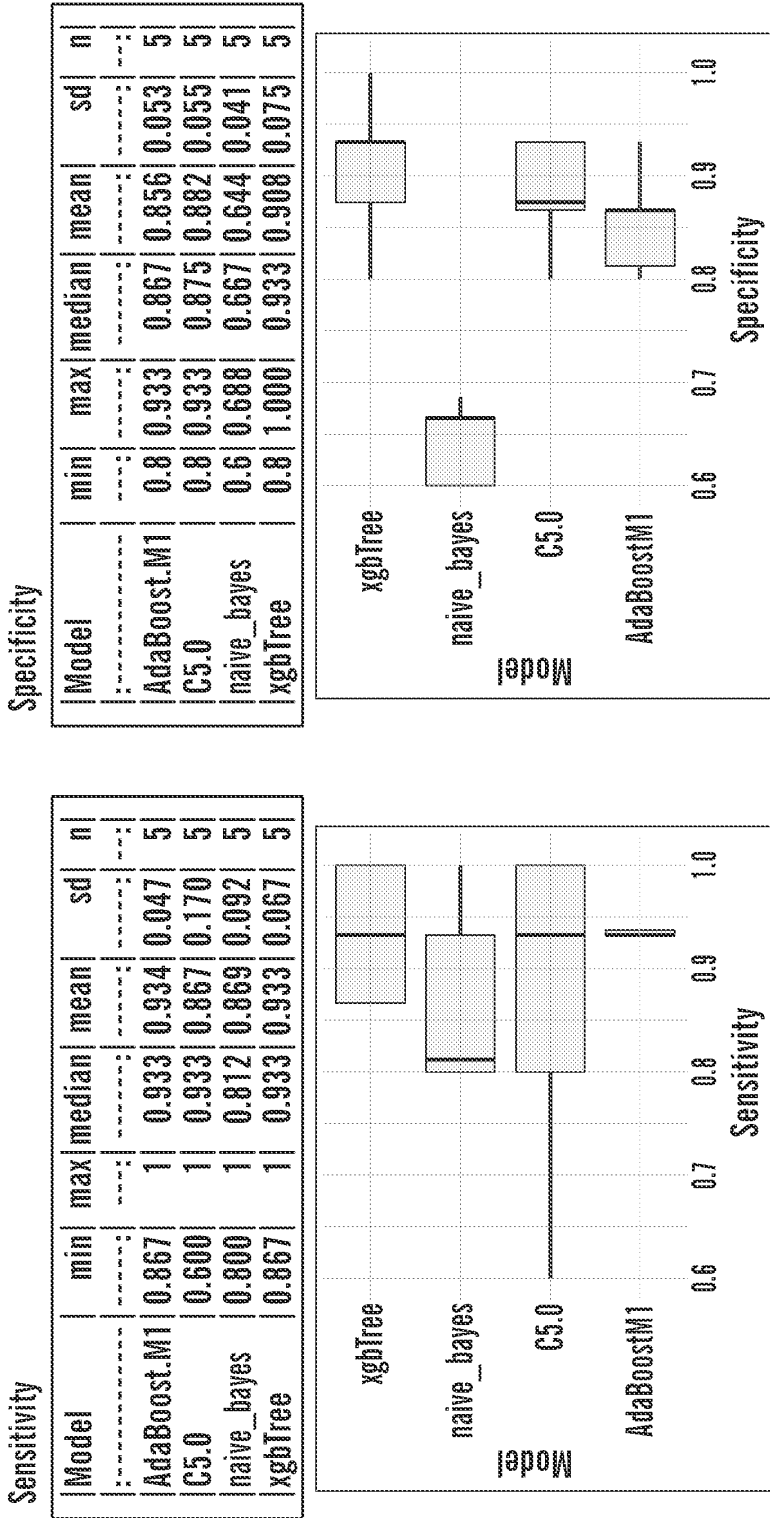


FIG. 75

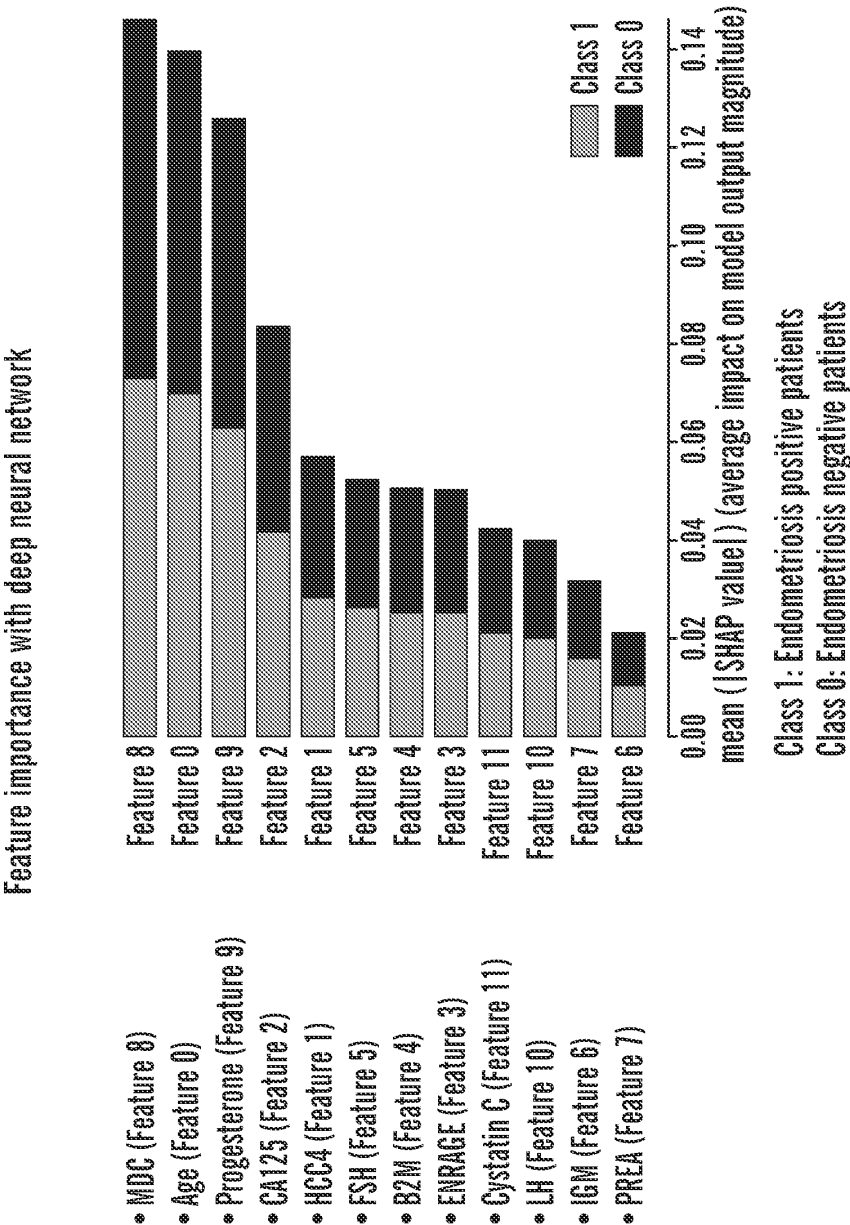
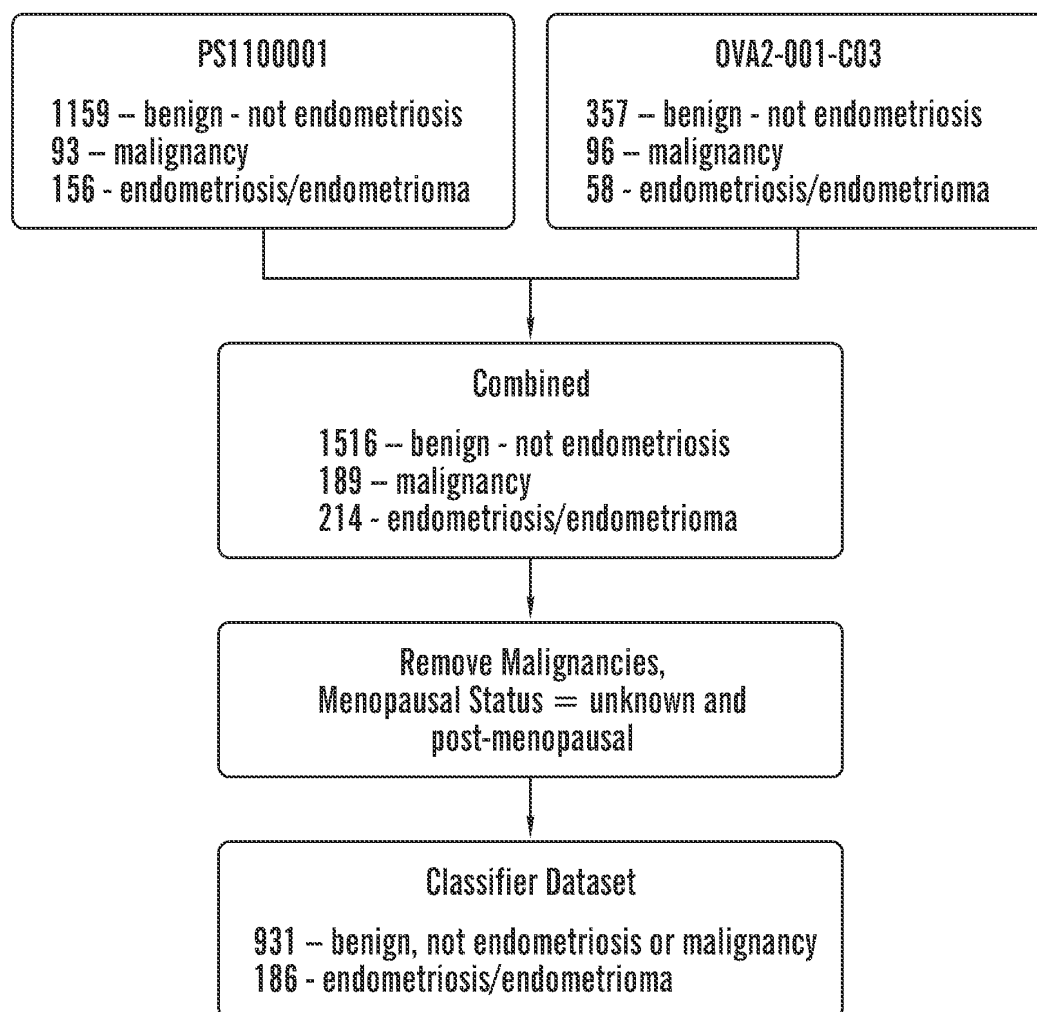


FIG. 76

**FIG. 77A**

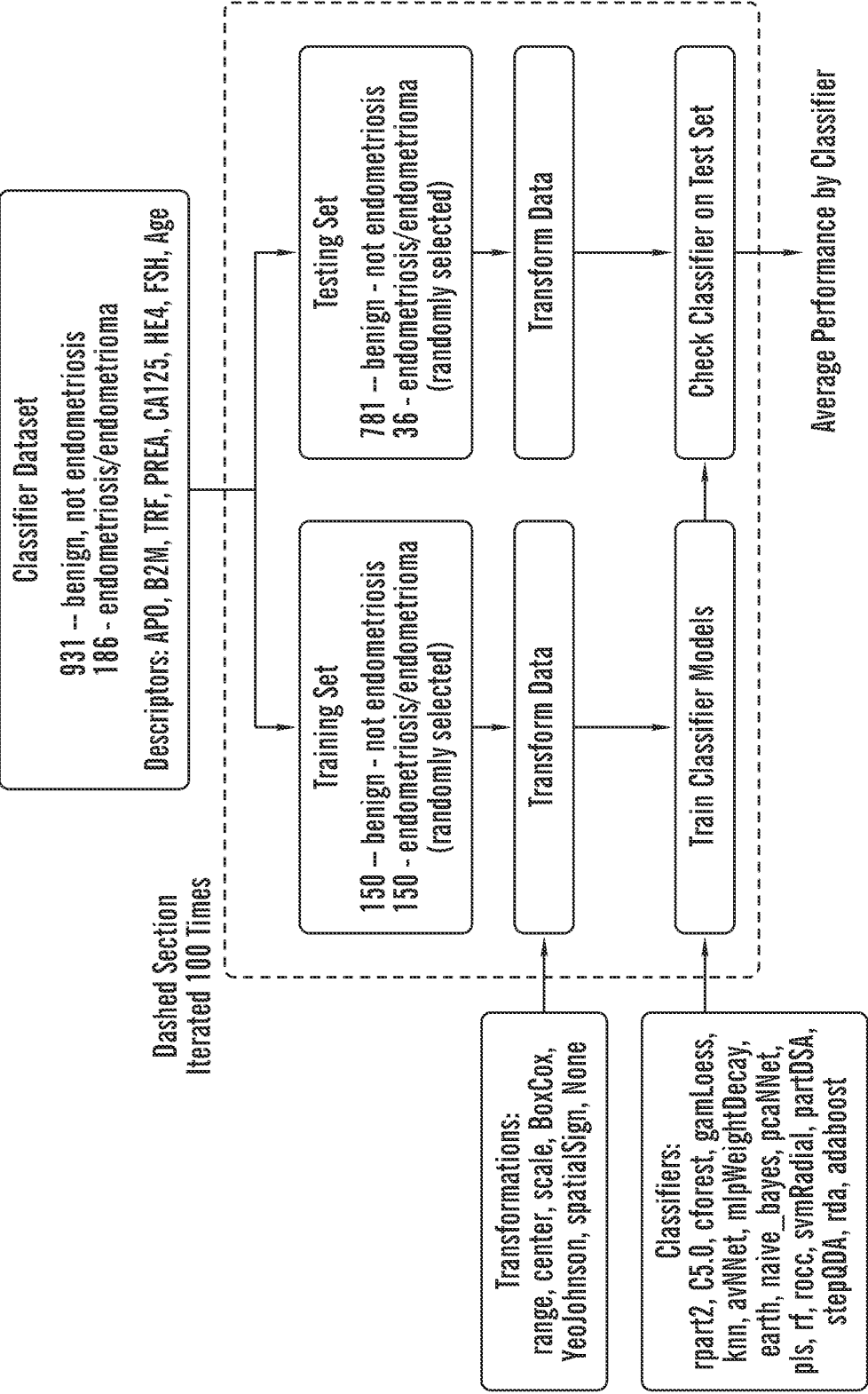


FIG. 77B

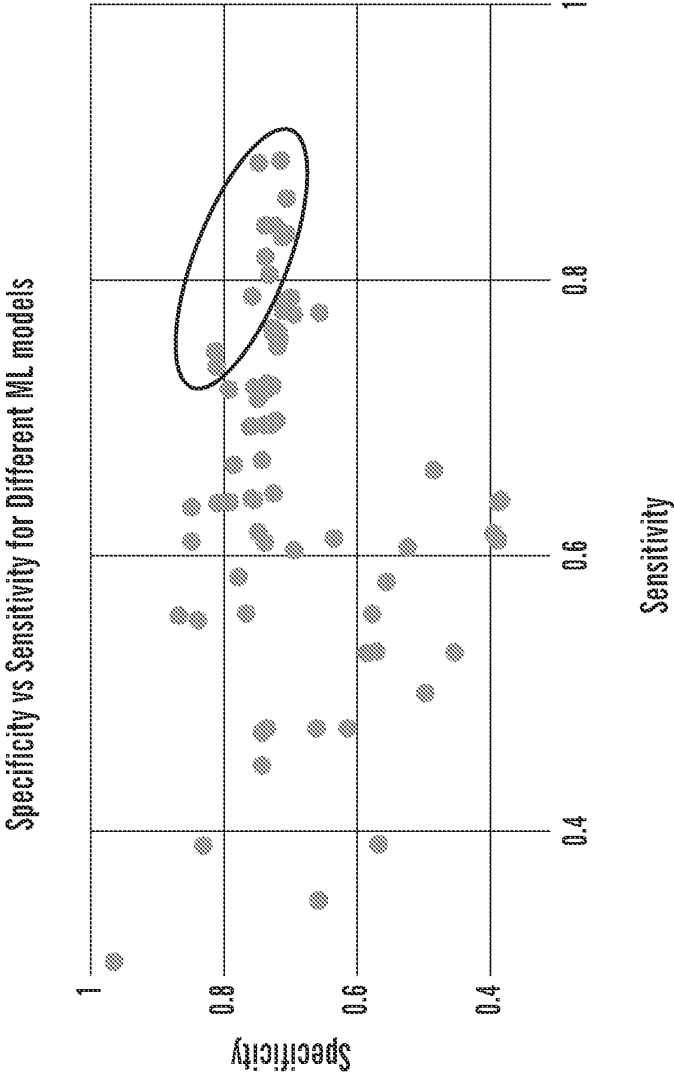


FIG. 78