**List of Ligand Receptor Pairs used in the analysis:**

EPGN\_EGFR

EREG\_EGFR

EREG\_ERBB4

NRG3\_ERBB4

NRG4\_ERBB4

ADAM15\_ITGAV

ADAM2\_ITGA9

ADAM2\_ITGB7

AGRN\_ATP1A3

AGRN\_LRP4

AGRP\_SDC3

AMELX\_LAMP1

AMELY\_LAMP1

AMH\_ACVR1

APOB\_LSR

APOB\_OLR1

APP\_CD74

APP\_TNFRSF21

AREG\_ERBB3

ARTN\_GFRA1

BGN\_TLR2

BGN\_TLR4

BMP10\_ENG

BMP2\_HFE2

BTLA\_CD79A

C1QB\_LRP1

C3\_CD19

C4BPA\_CD40

CD14\_ITGA4

CD14\_ITGB1

CD5L\_CD5

CDH1\_IGF1R

CEL\_CXCR4

CNTN4\_PTPRG

COL4A1\_ITGAV

COL4A3\_CD47

COL4A3\_ITGAV

CP\_SLC40A1

CRP\_OLR1

CTGF\_ITGA5

CTGF\_NTRK1

CTHRC1\_FZD3

CTHRC1\_FZD5

CTHRC1\_FZD6

CXCL10\_SDC4

CXCL12\_ITGB1

DCN\_ERBB4

DCN\_MET

DEFB103B\_CCR2

DEFB103B\_CCR6

DHH\_BOC

DHH\_CDON

DKK2\_KREMEN2

DLK2\_NOTCH1

EDN2\_EDNRB

EFEMP1\_EGFR

EFNA5\_EPHB6

EFNB1\_ERBB2

EFNB2\_EPHA6

EGF\_ERBB4

F13A1\_ITGA4

F13A1\_ITGA9

F13A1\_ITGB1

F2\_GP9

F8\_LDLR

FAT4\_DCHS1

FBN1\_ITGA5

FBN1\_ITGAV

FBN1\_ITGB1

FBN1\_ITGB3

FCN2\_LRP1

FGA\_ITGA5

FGA\_ITGAM

FGA\_ITGAV

FGA\_ITGB1

FGB\_ITGA2B

FGB\_ITGA5

FGB\_ITGAM

FGB\_ITGAV

FGB\_ITGB1

FGB\_ITGB2

FGF13\_SCN5A

FGF19\_KLB

FGF20\_FGFR4

FGF21\_FGFR4

FGG\_ITGA2B

FGG\_ITGA5

FGG\_ITGAV

FGG\_ITGB1

FGG\_ITGB2

FGL1\_EGFR

FN1\_CD44

FN1\_ITGA9

FN1\_ITGAV

FN1\_PLAUR

GDF2\_ACVR1

GDF2\_ACVR2A

GDF2\_ACVR2B

GDF2\_BMPR2

GDF2\_ENG

GIP\_DPP4

GNAI2\_TBXA2R

GPC3\_CD81

GPC3\_IGF1R

GRP\_BRS3

GRP\_NMBR

HBEGF\_ERBB2

HGF\_CD44

HLA-A\_KIR3DL1

HLA-B\_CANX

HMGB1\_SDC1

HMGB1\_THBD

HSP90AA1\_CFTR

HSP90AA1\_EGFR

HSP90AA1\_FGFR3

IGFBP4\_FZD8

IGFBP4\_LRP6

IGFL1\_IGFLR1

IGFL2\_IGFLR1

IGFL3\_IGFLR1

IHH\_BOC

IHH\_CDON

IL12B\_IL23R

IL15\_IL2RA

IL17A\_IL17RC

IL17F\_IL17RA

IL34\_CSF1R

L1CAM\_EGFR

L1CAM\_ERBB2

L1CAM\_ERBB3

LPL\_GPIHBP1

LPL\_SDC1

MATN1\_ITGB1

MEPE\_PHEX

MFAP2\_NOTCH1

MFAP5\_NOTCH1

MFGE8\_ITGAV

MFGE8\_ITGB3

MFGE8\_PDGFRB

MIA\_CDH7

MMP2\_SDC2

MMP7\_ERBB4

MUC2\_AGR2

MYOC\_FZD1

MYOC\_FZD10

MYOC\_FZD3

MYOC\_FZD4

MYOC\_FZD7

NLGN1\_NRXN2

NMB\_BRS3

NPY\_FAP

NTN1\_UNC5A

NTN1\_UNC5B

NTN1\_UNC5D

NTNG2\_LRRC4

OMG\_RTN4R

PCSK9\_VLDLR

PIGF\_FLT1

PLG\_PLGRKT

PSPN\_GFRA1

PYY\_FAP

RARRES2\_CCRL2

RBP4\_STRA6

RGMB\_NEO1

RNASE2\_TLR2

RSPO1\_ZNRF3

RSPO3\_FZD8

RSPO3\_LRP6

RSPO3\_SDC4

S100A8\_TLR4

S100A9\_TLR4

SCT\_VIPR2

SEMA3A\_NRP2

SEMA3C\_PLXND1

SEMA3D\_NRP1

SEMA3G\_NRP2

SEMA4B\_DCBLD2

SEMA4C\_PLXNB2

SEMA4D\_ERBB2

SEMA4G\_PLXNB2

SEMA6A\_PLXNA2

SEMA6A\_PLXNA4

SEMA6D\_TREM2

SEMA6D\_TYROBP

SEMA7A\_ITGA1

SEMA7A\_ITGB1

SFRP1\_FZD2

SHH\_GPC5

SHH\_LRP2

SPINK1\_EGFR

SPP1\_ITGA4

SPP1\_S1PR1

TCTN1\_TMEM67

TGM2\_SDC4

THBS1\_ITGA2B

THBS1\_ITGA3

THBS1\_ITGA4

THBS1\_ITGA6

THBS1\_ITGB1

THBS2\_ITGA4

THBS2\_ITGA6

THBS2\_ITGB1

THBS2\_NOTCH3

TIMP3\_AGTR2

TNC\_ITGA7

TNC\_ITGB1

VASP\_CXCR2

VCAN\_EGFR

VCAN\_TLR2

VIM\_CD44

VTN\_ITGAV

WNT2\_FZD5

WNT2\_FZD7

WNT2\_FZD8

WNT3A\_APCDD1

WNT3A\_FZD2

WNT3A\_FZD5

WNT3A\_FZD7

WNT3A\_FZD8

WNT3\_FZD7

WNT5A\_FZD8

WNT5A\_LRP5

WNT5A\_MCAM

WNT5A\_ROR1

WNT7A\_FZD10

ZG16B\_CXCR4

ZG16B\_TLR2

ZG16B\_TLR4

ZG16B\_TLR5

ZG16B\_TLR6

A2M\_LRP1

AANAT\_MTNR1A

AANAT\_MTNR1B

ADAM12\_ITGA9

ADAM12\_ITGB1

ADAM12\_SDC4

ADAM15\_ITGA5

ADAM15\_ITGA9

ADAM15\_ITGB1

ADAM15\_ITGB3

ADAM17\_ITGA5

ADAM17\_ITGB1

ADAM23\_ITGA5

ADAM23\_ITGB3

ADAM2\_ITGA6

ADAM2\_ITGB1

ADAM9\_ITGA6

ADAM9\_ITGAV

ADAM9\_ITGB1

ADAM9\_ITGB5

ADCYAP1\_ADCYAP1R1

ADCYAP1\_VIPR1

ADCYAP1\_VIPR2

ADIPOQ\_ADIPOR1

ADIPOQ\_ADIPOR2

ADM2\_CALCR

ADM2\_CALCRL

ADM2\_RAMP1

ADM\_CALCR

ADM\_CALCRL

ADM\_GPR182

ADM\_MRGPRX2

ADM\_RAMP2

AGRN\_MUSK

AGRP\_MC3R

AGRP\_MC4R

AGRP\_MC5R

AGT\_AGTR1

AGT\_AGTR2

AGT\_LRP2

AGT\_MAS1

AMH\_AMHR2

ANGPT1\_TEK

ANGPT1\_TIE1

ANGPT2\_TEK

ANGPT4\_TEK

ANGPTL1\_TEK

ANXA1\_FPR1

ANXA1\_FPR2

ANXA1\_FPR3

APLN\_APLNR

APOB\_LDLR

APOE\_LDLR

APOE\_LRP5

APOE\_LRP8

APOE\_SORL1

APOE\_VLDLR

APP\_FPR2

AREG\_EGFR

ARF1\_PLD2

ARTN\_GFRA3

ARTN\_RET

ASIP\_ATRN

ASIP\_MC1R

AVP\_AVPR1A

AVP\_AVPR1B

AVP\_AVPR2

AVP\_OXTR

BDNF\_NGFR

BDNF\_NTRK2

BMP10\_ACVR2A

BMP10\_ACVRL1

BMP10\_BMPR1A

BMP10\_BMPR1B

BMP10\_BMPR2

BMP15\_ACVR2A

BMP15\_BMPR1A

BMP15\_BMPR1B

BMP15\_BMPR2

BMP2\_ACVR1

BMP2\_ACVR2A

BMP2\_ACVR2B

BMP2\_BMPR1A

BMP2\_BMPR1B

BMP2\_BMPR2

BMP3\_ACVR2B

BMP4\_BMPR1A

BMP4\_BMPR1B

BMP4\_BMPR2

BMP5\_BMPR1A

BMP6\_ACVR1

BMP6\_ACVR2A

BMP6\_BMPR1A

BMP6\_BMPR1B

BMP6\_BMPR2

BMP7\_ACVR1

BMP7\_ACVR2A

BMP7\_ACVR2B

BMP7\_BMPR1A

BMP7\_BMPR1B

BMP7\_BMPR2

BTC\_EGFR

BTC\_ERBB3

BTC\_ERBB4

BTLA\_TNFRSF14

C3\_C3AR1

C3\_ITGAX

C3\_ITGB2

C3\_LRP1

C5\_C5AR1

C5\_C5AR2

CALCA\_CALCR

CALCA\_CALCRL

CALCA\_RAMP1

CALCB\_CALCR

CALCB\_CALCRL

CALCB\_RAMP1

CALR\_SCARF1

CAMP\_FPR2

CCK\_CCKAR

CCK\_CCKBR

CCL11\_ACKR2

CCL11\_CCR2

CCL11\_CCR3

CCL11\_CCR5

CCL11\_CXCR3

CCL13\_ACKR2

CCL13\_CCR1

CCL13\_CCR2

CCL13\_CCR3

CCL13\_CCR5

CCL13\_CXCR3

CCL14\_ACKR2

CCL14\_CCR1

CCL14\_CCR5

CCL15\_CCR1

CCL15\_CCR3

CCL16\_CCR1

CCL16\_CCR2

CCL16\_CCR5

CCL16\_HRH4

CCL17\_CCR4

CCL17\_CCR8

CCL19\_ACKR4

CCL19\_CCR7

CCL19\_CCRL2

CCL19\_CXCR3

CCL1\_CCR8

CCL20\_CCR6

CCL20\_CXCR3

CCL21\_ACKR4

CCL21\_CCR7

CCL21\_CXCR3

CCL22\_CCR4

CCL23\_CCR1

CCL24\_CCR2

CCL24\_CCR3

CCL25\_ACKR4

CCL25\_CCR9

CCL26\_CCR2

CCL26\_CCR3

CCL27\_CCR10

CCL28\_CCR10

CCL28\_CCR3

CCL2\_ACKR2

CCL2\_CCR1

CCL2\_CCR2

CCL2\_CCR3

CCL2\_CCR4

CCL2\_CCR5

CCL3\_CCR1

CCL3\_CCR5

CCL4\_ACKR2

CCL4\_CCR1

CCL4\_CCR5

CCL4\_CCR8

CCL5\_ACKR2

CCL5\_CCR1

CCL5\_CCR3

CCL5\_CCR4

CCL5\_CCR5

CCL5\_CXCR3

CCL5\_GPR75

CCL7\_ACKR2

CCL7\_CCR1

CCL7\_CCR2

CCL7\_CCR3

CCL7\_CCR5

CCL7\_CXCR3

CCL8\_ACKR2

CCL8\_CCR1

CCL8\_CCR2

CCL8\_CCR3

CCL8\_CCR5

CD24\_SELP

CD34\_SELL

CD40LG\_CD40

CD70\_CD27

CDH1\_ITGAE

CDH1\_ITGB7

CFH\_SELL

CGA\_FSHR

CGA\_LHCGR

CGA\_TSHR

CHAD\_ITGA2

CHAD\_ITGB1

CLCF1\_CNTFR

CLCF1\_CRLF1

CLCF1\_IL6ST

CLCF1\_LIFR

CNTF\_CNTFR

CNTF\_IL6ST

CNTF\_LIFR

COL18A1\_GPC1

COL18A1\_ITGA5

COL18A1\_ITGB1

COL1A1\_DDR1

COL1A1\_DDR2

COL1A1\_ITGA11

COL1A1\_ITGA2

COL1A1\_ITGB1

COL2A1\_ITGA10

COL2A1\_ITGA2

COL2A1\_ITGB1

COL4A1\_ITGA1

COL4A1\_ITGB1

COL4A1\_ITGB8

COL5A3\_SDC3

CORT\_GHSR

CORT\_MRGPRX2

CORT\_SSTR1

CORT\_SSTR2

CORT\_SSTR3

CORT\_SSTR4

CORT\_SSTR5

CRH\_CRHR1

CRH\_CRHR2

CRH\_MC2R

CSF1\_CSF1R

CSF2\_CSF1R

CSF2\_CSF2RA

CSF2\_CSF2RB

CSF2\_CSF3R

CSF3\_CSF1R

CSF3\_CSF3R

CSH1\_PRLR

CSH2\_PRLR

CSHL1\_PRLR

CTF1\_IL6ST

CTF1\_LIFR

CTGF\_ITGAM

CTGF\_ITGB2

CTGF\_LRP6

CX3CL1\_CX3CR1

CXCL10\_CCR3

CXCL10\_CXCR3

CXCL11\_ACKR3

CXCL11\_CCR3

CXCL11\_CXCR3

CXCL12\_ACKR3

CXCL12\_CXCR3

CXCL12\_CXCR4

CXCL13\_CXCR5

CXCL16\_CXCR6

CXCL1\_CXCR1

CXCL1\_CXCR2

CXCL2\_CXCR1

CXCL2\_CXCR2

CXCL2\_XCR1

CXCL3\_CXCR1

CXCL3\_CXCR2

CXCL5\_CXCR1

CXCL5\_CXCR2

CXCL6\_CXCR1

CXCL6\_CXCR2

CXCL9\_CCR3

CXCL9\_CXCR3

CYR61\_ITGA5

CYR61\_ITGAM

CYR61\_ITGB2

CYR61\_ITGB3

DEFB4A\_CCR6

DEFB4B\_CCR6

DHH\_HHIP

DHH\_PTCH2

DKK1\_KREMEN1

DKK1\_KREMEN2

DKK1\_LRP6

DKK2\_LRP6

DLK1\_NOTCH1

DLL1\_NOTCH1

DLL1\_NOTCH2

DLL1\_NOTCH3

DLL4\_NOTCH1

DLL4\_NOTCH2

DLL4\_NOTCH3

DLL4\_NOTCH4

EDA\_EDA2R

EDA\_EDAR

EDN1\_EDNRA

EDN2\_EDNRA

EDN3\_EDNRB

EFNA1\_EPHA1

EFNA1\_EPHA2

EFNA1\_EPHA3

EFNA1\_EPHA4

EFNA1\_EPHA5

EFNA1\_EPHA6

EFNA1\_EPHA7

EFNA1\_EPHA8

EFNA2\_EPHA2

EFNA2\_EPHA3

EFNA2\_EPHA4

EFNA2\_EPHA5

EFNA2\_EPHA6

EFNA2\_EPHA7

EFNA2\_EPHA8

EFNA3\_EPHA1

EFNA3\_EPHA2

EFNA3\_EPHA3

EFNA3\_EPHA4

EFNA3\_EPHA5

EFNA3\_EPHA6

EFNA3\_EPHA7

EFNA3\_EPHA8

EFNA3\_EPHB1

EFNA4\_EPHA2

EFNA4\_EPHA3

EFNA4\_EPHA4

EFNA4\_EPHA5

EFNA4\_EPHA6

EFNA4\_EPHA7

EFNA4\_EPHA8

EFNA5\_EPHA2

EFNA5\_EPHA3

EFNA5\_EPHA4

EFNA5\_EPHA5

EFNA5\_EPHA6

EFNA5\_EPHA7

EFNA5\_EPHA8

EFNA5\_EPHB2

EFNB1\_EPHB1

EFNB1\_EPHB2

EFNB1\_EPHB3

EFNB1\_EPHB4

EFNB1\_EPHB6

EFNB2\_EPHA4

EFNB2\_EPHB1

EFNB2\_EPHB2

EFNB2\_EPHB3

EFNB2\_EPHB4

EFNB2\_EPHB6

EFNB3\_EPHA4

EFNB3\_EPHB2

EFNB3\_EPHB3

EFNB3\_EPHB4

EGF\_EGFR

EPGN\_EGFR

EPO\_EPOR

EREG\_EGFR

EREG\_ERBB4

F2\_F2R

F2\_F2RL1

F2\_F2RL2

F2\_F2RL3

F7\_F3

F8\_LRP1

F9\_LRP1

FASLG\_FAS

FASLG\_TNFRSF6B

FGA\_ITGAX

FGA\_ITGB2

FGF10\_FGFR2

FGF16\_FGFR2

FGF16\_FGFR3

FGF16\_FGFR4

FGF17\_FGFR1

FGF17\_FGFR2

FGF17\_FGFR3

FGF17\_FGFR4

FGF18\_FGFR1

FGF18\_FGFR2

FGF18\_FGFR3

FGF18\_FGFR4

FGF19\_FGFR1

FGF19\_FGFR2

FGF19\_FGFR3

FGF19\_FGFR4

FGF1\_FGFR1

FGF1\_FGFR2

FGF1\_FGFR3

FGF1\_FGFR4

FGF22\_FGFR2

FGF23\_FGFR1

FGF23\_FGFR2

FGF23\_FGFR4

FGF2\_FGFR1

FGF2\_FGFR2

FGF2\_FGFR3

FGF2\_FGFR4

FGF2\_SDC2

FGF2\_SDC4

FGF3\_FGFR1

FGF3\_FGFR2

FGF4\_FGFR1

FGF4\_FGFR2

FGF4\_FGFR3

FGF4\_FGFR4

FGF5\_FGFR1

FGF5\_FGFR2

FGF5\_FGFR3

FGF5\_FGFR4

FGF6\_FGFR1

FGF6\_FGFR2

FGF6\_FGFR4

FGF7\_FGFR2

FGF8\_FGFR1

FGF8\_FGFR2

FGF8\_FGFR3

FGF8\_FGFR4

FGF9\_FGFR1

FGF9\_FGFR2

FGF9\_FGFR3

FGF9\_FGFR4

FLT3LG\_FLT3

FN1\_ITGA2

FN1\_ITGA2B

FN1\_ITGA4

FN1\_ITGA5

FN1\_ITGA8

FN1\_ITGB1

FN1\_ITGB3

FN1\_ITGB6

FN1\_ITGB8

FN1\_SDC2

FSHB\_FSHR

GALP\_GALR1

GALP\_GALR2

GALP\_GALR3

GAL\_GALR1

GAL\_GALR2

GAL\_GALR3

GAS6\_AXL

GAS6\_MERTK

GAS6\_TYRO3

GAST\_CCKBR

GCG\_GCGR

GCG\_GLP1R

GCG\_GLP2R

GDF11\_ACVR1B

GDF11\_ACVR2A

GDF11\_ACVR2B

GDF2\_ACVRL1

GDF5\_BMPR1B

GDF5\_BMPR2

GDF5\_ROR2

GDF6\_BMPR1A

GDF6\_BMPR2

GDF7\_ACVR2A

GDF7\_BMPR1A

GDF7\_BMPR2

GDF9\_BMPR2

GDF9\_TGFBR1

GDNF\_GFRA1

GDNF\_GFRA2

GDNF\_RET

GH1\_GHR

GH2\_GHR

GHRH\_GHRHR

GHRH\_VIPR1

GHRL\_GHSR

GHRL\_GPR39

GIP\_GIPR

GNRH1\_GNRHR

GNRH2\_GNRHR

GPHA2\_TSHR

GPI\_AMFR

GRP\_GRPR

GSTP1\_TRAF2

GUCA2A\_GUCY2C

GUCA2B\_GUCY2C

GZMB\_IGF2R

HAS2\_CD44

HAS2\_HMMR

HBEGF\_EGFR

HBEGF\_ERBB4

HCRT\_HCRTR1

HCRT\_HCRTR2

HEBP1\_FPR3

HGF\_MET

HLA-A\_KIR3DL2

HLA-B\_KIR3DL1

HLA-C\_KIR2DL1

HLA-C\_KIR2DL3

HLA-C\_KIR2DS4

HLA-E\_KLRC1

HLA-E\_KLRC2

HLA-E\_KLRD1

HLA-G\_KIR2DL4

HLA-G\_KLRC1

HLA-G\_KLRD1

HLA-G\_LILRB1

IAPP\_CALCR

ICAM1\_ITGAL

ICAM1\_ITGAX

ICAM1\_ITGB2

ICAM2\_ITGAL

ICAM2\_ITGB2

ICAM3\_ITGAL

ICAM3\_ITGB2

ICAM4\_ITGA2B

ICAM4\_ITGAL

ICAM4\_ITGAM

ICAM4\_ITGAV

ICAM4\_ITGB2

ICAM4\_ITGB3

ICAM5\_ITGAL

ICAM5\_ITGB2

IFNA10\_IFNAR1

IFNA10\_IFNAR2

IFNA13\_IFNAR1

IFNA13\_IFNAR2

IFNA14\_IFNAR1

IFNA14\_IFNAR2

IFNA16\_IFNAR1

IFNA16\_IFNAR2

IFNA17\_IFNAR1

IFNA17\_IFNAR2

IFNA1\_IFNAR1

IFNA1\_IFNAR2

IFNA21\_IFNAR1

IFNA21\_IFNAR2

IFNA2\_IFNAR1

IFNA2\_IFNAR2

IFNA4\_IFNAR1

IFNA4\_IFNAR2

IFNA5\_IFNAR1

IFNA5\_IFNAR2

IFNA6\_IFNAR1

IFNA6\_IFNAR2

IFNA7\_IFNAR1

IFNA7\_IFNAR2

IFNA8\_IFNAR1

IFNA8\_IFNAR2

IFNB1\_IFNAR1

IFNB1\_IFNAR2

IFNG\_IFNGR1

IFNG\_IFNGR2

IFNL1\_IFNLR1

IFNL1\_IL10RB

IFNL2\_IFNLR1

IFNL2\_IL10RB

IFNL3\_IFNLR1

IFNL3\_IL10RB

IFNW1\_IFNAR1

IFNW1\_IFNAR2

IGF1\_IGF1R

IGF2\_IGF1R

IGF2\_IGF2R

IGF2\_INSR

IHH\_HHIP

IHH\_PTCH1

IL10\_IL10RA

IL10\_IL10RB

IL11\_IL11RA

IL11\_IL6ST

IL12A\_IL12RB1

IL12A\_IL12RB2

IL12B\_IL12RB1

IL12B\_IL12RB2

IL13\_IL13RA1

IL13\_IL13RA2

IL13\_IL2RG

IL13\_IL4R

IL15\_IL15RA

IL15\_IL2RB

IL15\_IL2RG

IL16\_CD4

IL17A\_IL17RA

IL17B\_IL17RB

IL18\_IL18R1

IL18\_IL18RAP

IL18\_IL1RAPL1

IL19\_IL20RA

IL19\_IL20RB

IL1A\_IL1R1

IL1A\_IL1R2

IL1B\_IL1R1

IL1B\_IL1R2

IL1B\_IL1RAP

IL1RN\_IL1R1

IL1RN\_IL1R2

IL20\_IL20RA

IL20\_IL20RB

IL20\_IL22RA1

IL21\_IL21R

IL21\_IL2RG

IL22\_IL10RA

IL22\_IL22RA1

IL22\_IL22RA2

IL23A\_IL12RB1

IL23A\_IL23R

IL24\_IL20RA

IL24\_IL20RB

IL24\_IL22RA1

IL25\_IL17RB

IL2\_IL2RA

IL2\_IL2RB

IL2\_IL2RG

IL31\_IL31RA

IL31\_OSMR

IL3\_CSF2RB

IL3\_IL3RA

IL4\_IL13RA1

IL4\_IL2RG

IL4\_IL4R

IL5\_CSF2RB

IL5\_IL5RA

IL6\_IL6R

IL6\_IL6ST

IL7\_IL2RG

IL7\_IL7R

IL9\_IL2RG

IL9\_IL9R

INHA\_ACVR2A

INHA\_TGFBR3

INHBA\_ACVR1

INHBA\_ACVR1B

INHBA\_ACVR2A

INHBA\_ACVR2B

INHBA\_BAMBI

INHBB\_ACVR1

INHBB\_ACVR1B

INHBB\_ACVR2A

INHBB\_ACVR2B

INHBC\_ACVR1

INHBC\_ACVR1B

INHBC\_ACVR2A

INHBC\_ACVR2B

INSL3\_RXFP2

INSL5\_RXFP3

INSL5\_RXFP4

INS\_INSR

JAG1\_NOTCH1

JAG1\_NOTCH2

JAG1\_NOTCH3

JAG1\_NOTCH4

JAG2\_NOTCH1

JAG2\_NOTCH2

JAG2\_NOTCH3

KISS1\_KISS1R

KITLG\_KIT

KNG1\_BDKRB1

KNG1\_BDKRB2

KNG1\_GPR135

LAMA1\_ITGA7

LAMA1\_ITGB1

LAMA1\_ITGB8

LAMA1\_RPSA

LAMA2\_ITGA7

LAMA2\_ITGB1

LAMA2\_RPSA

LAMB1\_ITGA6

LAMB1\_ITGB1

LAMB2\_RPSA

LAMC2\_ITGA3

LAMC2\_ITGA6

LAMC2\_ITGB1

LAMC2\_ITGB4

LEFTY2\_ACVR2B

LEP\_LEPR

LHB\_LHCGR

LIF\_IL6ST

LIF\_LIFR

LIPH\_LPAR1

LIPH\_LPAR2

LIPH\_LPAR4

LRPAP1\_LRP1

LTA\_LTBR

LTA\_TNFRSF14

LTA\_TNFRSF1A

LTA\_TNFRSF1B

LTB\_CD40

LTB\_LTBR

LTF\_LRP1

LTF\_LRP11

MADCAM1\_ITGA4

MADCAM1\_ITGB7

MDK\_ALK

MDK\_PTPRZ1

MLN\_MLNR

MMP13\_LRP1

MMP9\_LRP1

MST1\_MST1R

NAMPT\_INSR

NCAM1\_ROBO1

NCAM1\_ROBO3

NDP\_FZD4

NDP\_LGR4

NGF\_NGFR

NGF\_NTRK1

NGF\_SORT1

NID1\_PTPRF

NLGN1\_NRXN1

NLGN1\_NRXN3

NLGN2\_NRXN1

NLGN2\_NRXN2

NLGN2\_NRXN3

NLGN3\_NRXN1

NLGN3\_NRXN2

NLGN3\_NRXN3

NMB\_GRPR

NMB\_NMBR

NMS\_NMUR1

NMS\_NMUR2

NMU\_NMUR1

NMU\_NMUR2

NODAL\_ACVR1B

NODAL\_ACVR1C

NODAL\_ACVR2A

NODAL\_ACVR2B

NOV\_NOTCH1

NPB\_NPBWR1

NPB\_NPBWR2

NPFF\_NPFFR1

NPFF\_NPFFR2

NPNT\_ITGA8

NPNT\_ITGB1

NPPA\_NPR1

NPPA\_NPR3

NPPB\_NPR1

NPPB\_NPR2

NPPB\_NPR3

NPPC\_NPR2

NPS\_NPSR1

NPVF\_NPFFR1

NPVF\_NPFFR2

NPW\_NPBWR1

NPW\_NPBWR2

NPY\_NPY1R

NPY\_NPY2R

NPY\_NPY4R

NPY\_NPY5R

NPY\_PRLHR

NRG1\_ERBB2

NRG1\_ERBB3

NRG1\_ERBB4

NRG2\_ERBB3

NRG2\_ERBB4

NRG3\_ERBB4

NRG4\_ERBB4

NRTN\_GFRA1

NRTN\_GFRA2

NRTN\_RET

NTF3\_NGFR

NTF3\_NTRK1

NTF3\_NTRK2

NTF3\_NTRK3

NTF4\_NGFR

NTF4\_NTRK1

NTF4\_NTRK2

NTN1\_DCC

NTN1\_UNC5C

NTN3\_CDON

NTN3\_NEO1

NTN4\_DCC

NTN4\_UNC5A

NTNG1\_LRRC4C

NTS\_NTSR1

NTS\_NTSR2

NXPH1\_NRXN1

NXPH1\_NRXN2

NXPH1\_NRXN3

NXPH3\_NRXN1

NXPH3\_NRXN2

NXPH3\_NRXN3

OMG\_LINGO1

OMG\_TNFRSF1B

OSM\_IL6ST

OSM\_LIFR

OSM\_OSMR

OSTN\_NPR3

OXT\_AVPR1A

OXT\_AVPR1B

OXT\_AVPR2

OXT\_OXTR

PDGFA\_PDGFRA

PDGFB\_PDGFRA

PDGFB\_PDGFRB

PDGFC\_FLT4

PDGFC\_KDR

PDGFC\_PDGFRA

PDGFD\_PDGFRB

PDYN\_OPRD1

PDYN\_OPRK1

PDYN\_OPRM1

PENK\_MRGPRX1

PENK\_OGFR

PENK\_OPRD1

PENK\_OPRM1

PF4\_FGFR2

PF4\_LDLR

PF4\_PROCR

PF4\_THBD

PGF\_FLT1

PGF\_NRP1

PLAT\_LRP1

PLAU\_LRP1

PLAU\_PLAUR

PLG\_ITGA9

PLG\_ITGB1

PMCH\_MCHR1

PMCH\_MCHR2

PNOC\_OPRL1

PODXL2\_SELL

POMC\_MC1R

POMC\_MC2R

POMC\_MC3R

POMC\_MC4R

POMC\_MC5R

POMC\_OPRD1

POMC\_OPRK1

POMC\_OPRM1

PPBP\_CXCR1

PPBP\_CXCR2

PPY\_NPY4R

PPY\_NPY5R

PRLH\_PRLHR

PRL\_PRLR

PRND\_RPSA

PROC\_PROCR

PROK1\_PROKR1

PROK1\_PROKR2

PROK2\_PROKR1

PROK2\_PROKR2

PROS1\_AXL

PROS1\_TYRO3

PSAP\_GPR37

PSAP\_GPR37L1

PSAP\_LRP1

PSEN1\_NCSTN

PSPN\_GFRA4

PSPN\_RET

PTDSS1\_JMJD6

PTDSS1\_SCARB1

PTGS2\_PTGDR2

PTH2\_PTH1R

PTH2\_PTH2R

PTHLH\_PRLHR

PTHLH\_PTH1R

PTHLH\_PTH2R

PTH\_PTH1R

PTH\_PTH2R

PTN\_PTPRB

PTN\_PTPRZ1

PYY\_NPY1R

PYY\_NPY2R

PYY\_NPY4R

PYY\_NPY5R

QRFP\_P2RY14

QRFP\_QRFPR

RARRES2\_CMKLR1

RARRES2\_GPR1

RELN\_ITGA3

RELN\_ITGB1

RELN\_LRP8

RELN\_VLDLR

REN\_ATP6AP2

RGMA\_NEO1

RLN1\_RXFP1

RLN1\_RXFP2

RLN2\_RXFP1

RLN2\_RXFP2

RLN3\_RXFP1

RLN3\_RXFP2

RLN3\_RXFP3

RLN3\_RXFP4

RPS19\_C5AR1

RSPO1\_LGR4

RSPO1\_LGR5

RSPO1\_LGR6

RSPO1\_LRP6

RSPO2\_LGR4

RSPO2\_LGR5

RSPO2\_LGR6

RSPO3\_LGR4

RSPO3\_LGR5

RSPO3\_LGR6

RSPO4\_LGR4

RSPO4\_LGR5

RSPO4\_LGR6

RTN4\_LINGO1

RTN4\_RTN4R

RTN4\_TNFRSF19

SAA1\_FPR2

SCT\_SCTR

SELPLG\_SELE

SELPLG\_SELP

SEMA3A\_NRP1

SEMA3A\_PLXNA1

SEMA3A\_PLXNA2

SEMA3A\_PLXNA4

SEMA3B\_NRP1

SEMA3C\_NRP2

SEMA3E\_PLXND1

SEMA3F\_NRP2

SEMA3F\_PLXNA3

SEMA4D\_MET

SEMA4D\_PLXNB1

SEMA4D\_PLXNB2

SEMA5A\_MET

SEMA5A\_PLXNB3

SEMA6D\_KDR

SEMA6D\_PLXNA1

SEMA7A\_PLXNC1

SERPINA1\_LRP1

SERPINC1\_LRP1

SERPINE1\_LRP1

SERPINE2\_LRP1

SERPING1\_LRP1

SHH\_BOC

SHH\_CDON

SHH\_HHIP

SHH\_PTCH1

SHH\_SMO

SLIT1\_GPC1

SLIT1\_ROBO1

SLIT1\_SDC1

SLIT2\_GPC1

SLIT2\_ROBO1

SLIT2\_ROBO2

SLIT2\_ROBO4

SLIT2\_SDC1

SOST\_LRP5

SOST\_LRP6

SPP1\_CD44

SPP1\_ITGAV

SST\_SSTR1

SST\_SSTR2

SST\_SSTR3

SST\_SSTR4

SST\_SSTR5

TAC1\_TACR1

TAC1\_TACR2

TAC1\_TACR3

TAC3\_TACR1

TAC3\_TACR2

TAC3\_TACR3

TAC4\_TACR1

TAC4\_TACR3

TDGF1\_ACVR2A

TFPI\_LRP1

TFPI\_VLDLR

TF\_TFRC

TGFA\_EGFR

TGFB1\_ACVRL1

TGFB1\_TGFBR1

TGFB1\_TGFBR2

TGFB1\_TGFBR3

TGFB2\_TGFBR1

TGFB2\_TGFBR2

TGFB2\_TGFBR3

TGFB3\_ACVRL1

TGFB3\_TGFBR1

TGFB3\_TGFBR2

TGFB3\_TGFBR3

THBS1\_CD36

THBS1\_CD47

THBS1\_SDC1

THBS2\_CD47

THPO\_MPL

TNFSF10\_TNFRSF10A

TNFSF10\_TNFRSF10B

TNFSF10\_TNFRSF10C

TNFSF10\_TNFRSF10D

TNFSF10\_TNFRSF11B

TNFSF11\_TNFRSF11A

TNFSF11\_TNFRSF11B

TNFSF12\_TNFRSF12A

TNFSF12\_TNFRSF25

TNFSF13B\_TNFRSF13B

TNFSF13B\_TNFRSF13C

TNFSF13B\_TNFRSF17

TNFSF13\_TNFRSF13B

TNFSF13\_TNFRSF17

TNFSF14\_LTBR

TNFSF14\_TNFRSF14

TNFSF14\_TNFRSF6B

TNFSF15\_TNFRSF25

TNFSF18\_TNFRSF18

TNFSF4\_TNFRSF4

TNFSF8\_TNFRSF8

TNFSF9\_TNFRSF9

TNF\_TNFRSF1A

TNF\_TNFRSF1B

TNF\_TNFRSF21

TRH\_TRHR

TSHB\_TSHR

UCN2\_CRHR1

UCN2\_CRHR2

UCN3\_CRHR2

UCN\_CRHR1

UCN\_CRHR2

ULBP2\_KLRK1

UTS2B\_UTS2R

UTS2\_UTS2R

VCAM1\_ITGA4

VCAM1\_ITGAD

VCAM1\_ITGB1

VCAM1\_ITGB2

VEGFA\_FLT1

VEGFA\_KDR

VEGFA\_NRP1

VEGFA\_NRP2

VEGFB\_FLT1

VEGFB\_NRP1

VEGFC\_FLT4

VEGFC\_KDR

VEGFC\_NRP2

VEGFC\_VIPR2

VIP\_ADCYAP1R1

VIP\_SCTR

VIP\_VIPR1

VIP\_VIPR2

VTN\_ITGA5

VTN\_ITGB3

WNT11\_FZD7

WNT1\_FZD3

WNT1\_FZD8

WNT1\_FZD9

WNT1\_RYK

WNT3A\_FZD6

WNT3\_FZD8

WNT3\_LRP6

WNT3\_RYK

WNT4\_FZD2

WNT4\_FZD6

WNT5A\_FZD2

WNT5A\_FZD4

WNT5A\_FZD6

WNT5A\_FZD7

WNT5A\_RYK

WNT7A\_FZD5

WNT7B\_FZD1

WNT7B\_FZD10

WNT7B\_LRP5

XCL1\_XCR1

XCL2\_XCR1

YARS\_CXCR1

ZP3\_MERTK

SCYL2\_CCR1

SCYL3\_CCR1

SCYL3\_CCR3

TPO\_MPL

PLEKHO2\_PDGFRB

DTL\_TNFRSF17

DTL\_TNFRSF13B

CD58\_CD2

CD86\_CD28

CD86\_CTLA4

HLA-A\_CD8A

PDCD1LG2\_PDCD1

ICOSLG\_ICOS

PVR\_CD226

CNTN1\_NRCAM

ALCAM\_CD6

PTPRC\_CD22

JAM2\_JAM3

ICOSLG\_CD28

ICOSLG\_CTLA4

COL1A1\_CD44

LAMC3\_CD44

COL1A1\_SDC1

FN1\_SDC1

COMP\_SDC1

TNC\_SDC1

COMP\_CD36

COL1A1\_GP6

COMP\_CD47

DLK1\_NOTCH2

DLK1\_NOTCH3

DLK1\_NOTCH4

JAG2\_NOTCH4

DLL3\_NOTCH1

DLL3\_NOTCH2

DLL3\_NOTCH3

DLL3\_NOTCH4

EFNA2\_EPHA1

EFNA4\_EPHA1

EFNA5\_EPHA1

EFNB1\_EPHA4

EFNB3\_EPHB1

EFNB3\_EPHB6

TNF\_LTBR

FGF12\_FGFR1

FGF12\_FGFR2

FGF12\_FGFR3

FGF12\_FGFR4

FGF13\_FGFR1

FGF13\_FGFR2

FGF13\_FGFR3

FGF13\_FGFR4

FGF14\_FGFR1

FGF14\_FGFR2

FGF14\_FGFR3

FGF14\_FGFR4

FGF16\_FGFR1

CLEC11A\_KIT

MDK\_PTPRB

PTN\_SDC3

BMP3\_BMPR1A

BMP3\_BMPR1B

BMP3\_BMPR2

BMP3\_ACVR1

BMP3\_ACVR2A

BMP4\_ACVR1

BMP4\_ACVR2A

BMP4\_ACVR2B

BMP5\_BMPR1B

BMP5\_BMPR2

BMP5\_ACVR1

BMP5\_ACVR2A

BMP5\_ACVR2B

BMP6\_ACVR2B

BMP8B\_BMPR1A

BMP8B\_BMPR1B

BMP8B\_BMPR2

BMP8B\_ACVR1

BMP8B\_ACVR2A

BMP8B\_ACVR2B

BMP10\_ACVR1

BMP10\_ACVR2B

BMP15\_ACVR1

BMP15\_ACVR2B

INHA\_ACVR1

INHA\_ACVR1B

INHA\_ACVR2B

IL17A\_IL17RB

IL17B\_IL17RA

IL17B\_IL17RC

MADCAM1\_SELL

GLG1\_SELE

CD274\_PDCD1

CD80\_CTLA4

CD80\_CD28

CD86\_CD28

NECTIN2\_CD226

NECTIN2\_TIGIT

PVR\_TIGIT

SIGLEC1\_SPN