

Figure. S1 COPD and osteoporosis disease-specific protein interaction network. (A) COPD disease-specific protein interaction network; (B) Osteoporosis disease-specific protein interaction network; (C) The relative positions of 340 common targets in the PPI network of COPD; (D) The relative position of 340 common targets in the PPI network of osteoporosis. The node size is proportional to the Degree value, and the node color is proportional to the Betweenness value.

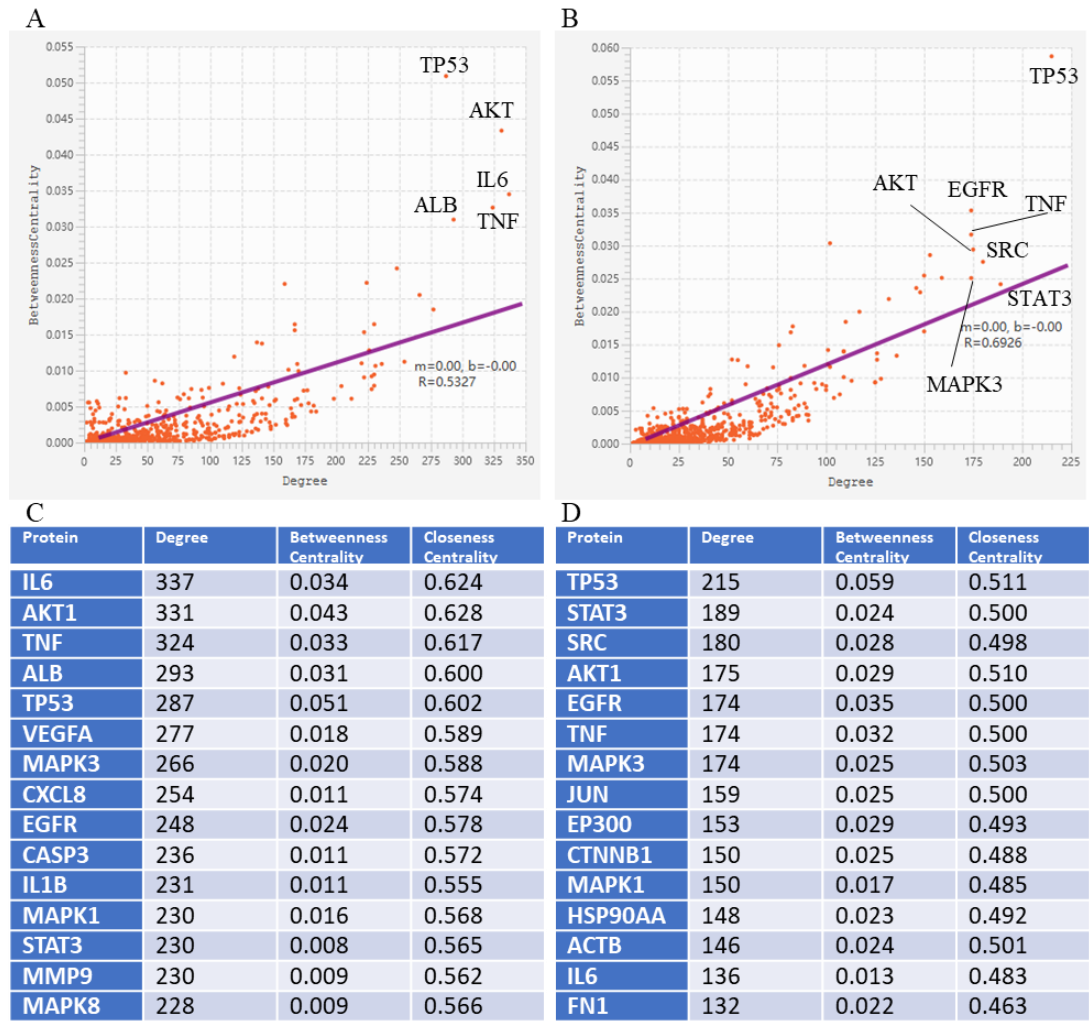


Figure. S2 Analysis of COPD and osteoporosis disease-specific PPI network. (A) Relationship between Degree and Betweenness of nodes in COPD disease-specific PPI network; (B) Relationship between Degree and Betweenness of nodes in osteoporosis disease-specific PPI network; (C) Top 15 protein targets in COPD disease-specific PPI network and (D) The top 15 protein targets in osteoporosis disease-specific PPI network according to the value of the degree.

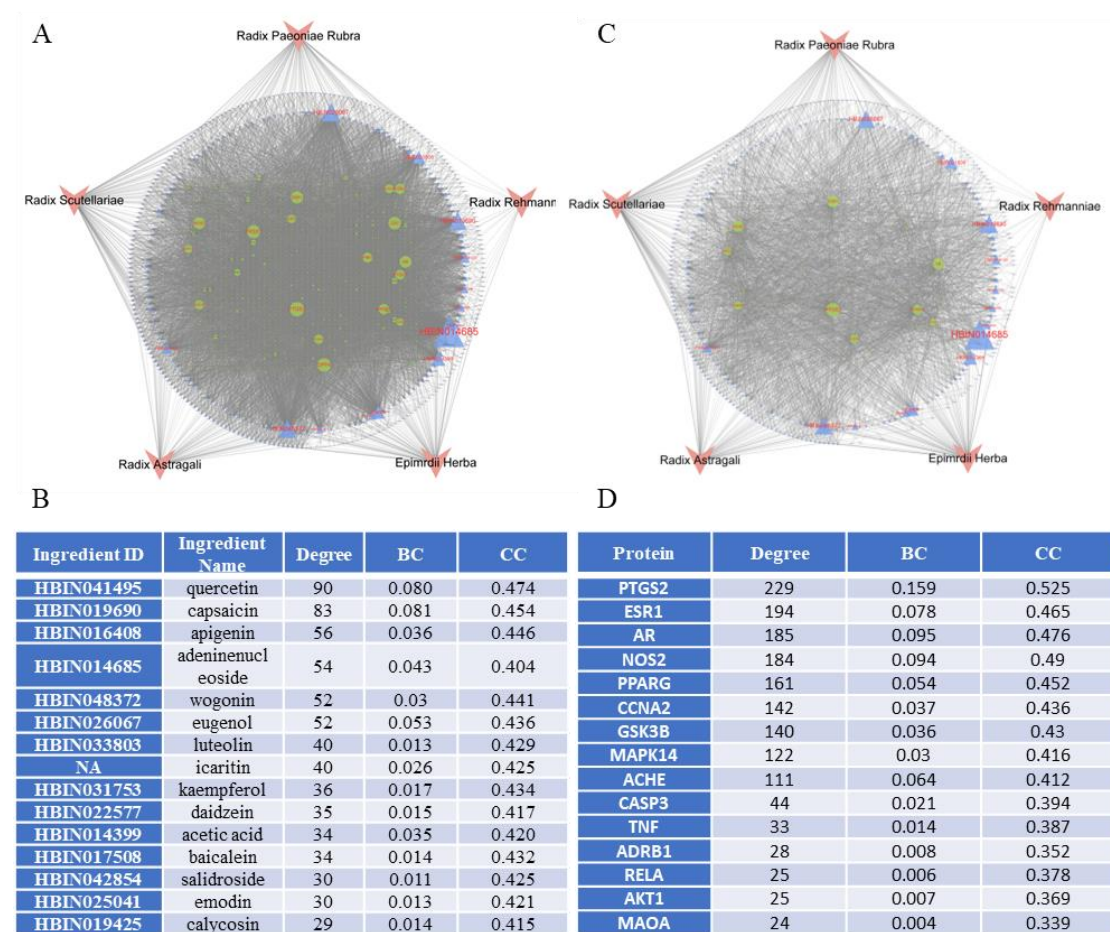


Figure. S3 The Herb-Ingredient-Target (H-I-T) network and the Herb-Potential Ingredient-Potential Target (HB-PI-PT) network. The V shapes, triangles, and circles represent the herbs, ingredients, and targets, respectively. The core ingredients, targets, potential ingredients, and targets for COPD-related OP therapy, were marked. The H-I-T network (A) and the relationship between degree and betweenness centrality (B) in this network. The HB-PI-PT network (C) and the relationship between degree and betweenness centrality (D) in this network.

Table S1 The composition of MBSYQ formulae

Botanical plant name	Chinese name	Part used	Dosage (g)	Place of origin	Test report number
Astragalus mongholicus Bunge	Huang Qi	Root	30	Gansu, China	No.78456
Epimedium brevicornu Maxim.	Yin Yang Huo	Aerial part	20	Gansu, China	No.81428
Rehmannia glutinosa (Gaertn.) DC.	Di Huang	Root tuber	15	Henan, China	No.79639
Scutellaria baicalensis Georgi	Huang Qin	Root	30	Shandong, China	No.75369
Paeonia lactiflora Pall.	Chi Shao	Root	30	Nei Mongol, China	No.77927

Table S2 Primer sequences used for quantitative RT-PCR

Gene	Forward primer (5' to 3')	Reverse primer (5' to 3')
Actb	CCTCTATGCCAACACAGT	AGCCACCAATCCACACAG
Gpx1	ATAGAAGCCCTGCTGTCCAAG	ATCACCAAGCCCAGATACCA
Gpx4	TCTGTGTAAATGGGGACGATG	CGCAGCCGTTCTTATCAATG
Uqcrb	CCCCAGGTTAGTTACCCAG	AAGCCCATAATGGAATACAGAC
Ndufa4	AAACATCCCAGCTTGATCC	ATACAGTGCTGCTCCAGTACC

Table S3. Proteins related to COPD and OP based on TTD, CTD and DisGeNET database

Osteoporosis						Chronic obstructive pulmonary disease			
BGLAP	BIRC5	LUM	ABCC3	KISS1	PRPF6	MMP1	TAFA2	BAX	DMBT1
TNFSF11	ALDOA	PTPN11	KLRK1	MYBBP1A	AREG	HMOX1	OR6F1	CASP9	ELOVL3
TNF	IGFBP5	MTOR	SELENOP	RHOQ	CYP27B1	SFTPD	IFNG	PER2	OIP5
BCL2	ME1	NCOA1	AGTR1A	NR1I3	FBLN5	HDAC2	BMP8A	SOD1	TNFSF4
RUNX2	IL18	CSF2	ARPP19	COL12A1	FBXO32	MMP9	IL1A	ITGB2	FOSL1
CASP3	PDGFA	APOB	CDC42	ECI1	GAP43	TGFB1	IL1B	NDC80	GADD45A
TNFRSF11B	IL12A	MT2A	IL23A	NDUFS1	HADH	FAM13A	IL5	ATF3	CRISPLD2
TGFB1	PIK3R1	IGF1R	ITGA1	PTCH1	IL1RL1	SERPINA1	IL10	SMAD2	SQSTM1
BAX	PTH	SDC1	AREG	GSN	ITGA3	DSP	IL13	STAT1	ADRA1D
NFE2L2	CDK4	ABCG1	F2R	PDIA3	MSR1	ELN	IL18	MT1	ATP2A2
IL6	RAC1	IDO1	PDGFRA	AMIGO2	NCAPG	EPHX1	CXCL10	CCL4	FOLR1
NOS2	GFAP	HNF4A	CDH2	CAMKK2	PHB	MTCL1	ITGA1	HSP90AA1	DLL1
PPARGC1A	GAS6	HSD11B1	ENO1	UTRN	RFC3	IL6	ITGB8	SERPINB2	KIF23
PPARG	IRAK1	PCSK9	BASP1	AGTR1	MMP16	CXCL8	ITPK1	TNFSF10	PTPRG
ALPL	CTSK	CFLAR	DRD2	BMF	PLPP2	EEFSEC	EFCAB5	RELB	GPX4
HMOX1	ATP2A2	SLC3A2	RAP1A	MXD1	MMP2	TNF	KCNMA1	IL3	IL9

CASP9	NTRK2	BIRC3	F11	SHC1	ANXA4	NOS3	TNPO1	TH	ITGA5
VEGFA	ECH1	CCN3	DRD1	SHH	AVP	CYP1A1	MIR99AHG	INS1	PRKCA
TP53	LCN2	THRA	MCM2	NFIL3	LPAR1	SOD3	LINC01118	FOXP3	PRDX2
CDKN1A	HSD3B1	ACSS2	BDKRB2	RBBP8	RYR1	FOXO3	CASC15	RB1	CXCL14
PTGS2	CXCL1	ATF3	CXCL14	NR0B2	MUC1	NOS2	LPO	ADM	MB
CTNNA1	LDLR	EZR	SLC1A3	VDAC1	CEBPD	CXCL1	ARVCF	COL1A1	PLCG1
MMP9	EIF4EBP1	GH1	ATG12	UBC	CD74	CYP1A2	MFAP2	IL2RA	IGF1R
RELA	MGP	ITGA2	DNMT3A	WT1	PLD1	HTR2A	MMP12	AR	NRF1
IL1B	RPS6KB1	HMGCR	SESN1	YWHAZ	APOC1	TRPV4	SUZ12P1	BIRC3	IL1R1
MMP2	ADM	STAT4	CHEK1	AMD1	HDAC2	RAPGEF3	LINC02869	IGFBP3	ZNF845
FOS	CYP11A1	JUNB	CCL7	IFI6	IFITM3	TP53	IRF1-AS1	SLCO1B1	MCF2L
MAPK1	IGF2	BNIP3	BACE1	ILF3	LGMN	CXCL2	PLF	CYCS	TSC22D3
FN1	MSMO1	MYH7	BTG2	UGT1A1	NPHS1	MMP14	MYH7	BMP2	SLC22A2
JUN	APOE	DUSP4	NR5A1	KCNJ16	SYK	KLF5	NCF2	PBK	CCNE2
IGF1	ASNS	SCD2	PIIF	DIO3	ARNTL	TNNT2	NCF4	NGF	PDGFB
FAS	G6PD	CCNB2	TRAF2	TLR3	HSPA2	CD8A	RERE	CLU	CX3CR1
CD14	SMAD3	CYP3A11	ACO2	APAF1	SOX2	IL17A	DELEC1	SLC22A3	JUNB
CAT	RB1	PLEC	TCF4	GCH1	UHRF1	MIR218-2	PCDH9	UCP1	TGFBR2
NQO1	CDH1	CYP19A1	HSD11B2	CSF2RB	IDH2	MUC5AC	PCM1	MYL2	PFKFB3
CXCL8	RHOA	ENC1	KRT19	OXTR	BCR	NFE2L2	PLCE1	ABCB1	PTK2
CXCL12	FST	F13A1	AHSG	ALCAM	BST2	TIMP1	RSRC1	AHR	RAD51
MAPK3	PLA2G2A	PTHLH	PTH1R	CCNA1	HNRNPD	VEGFA	PDE4A	TNFRSF1B	CCNA2
BMP2	DDX21	DLC1	CAMK2A	EFEMP1	PEX11A	EGFR	HDAC7	MYD88	CYP17A1
NFKB1	KIT	PPP3CA	PROS1	SFRP1	PIGR	CASP3	SERPINE2	CD40LG	PLEC
SOD2	IGFBP4	PSAT1	METTL7A	SULT1A1	TICAM1	SERPINE1	PIK3CA	TGFB1	MIR1224
SPP1	TF	SP1	H2BC5	CSF1	PBK	MUC1	PIK3CD	NR1D1	PPARA
VCAM1	CASP7	F3	MMP10	SYNJ2	CD14	PLAU	PITPNA	ABCA1	CD33
NFKBIA	BMP4	GPD1	SLC26A2	TNIP1	TGFB2	SLPI	BTBD1	STAT3	SLC6A14
GSK3B	NRF1	LAMP1	ESR1	ETS2	GLI1	CCN2	RAB4B	CIRBP	CDC25B
CCND1	POU5F1	MAP2K2	HPCA	IFNB1	NCAM1	MPO	SNTG2	SPC25	KRT1
CCL2	GSTM3	GPAM	ADA	MVK	LDHA	STAT4	GDAP1	TGM1	MT2
AKT1	EIF2S1	CYP24A1	CST3	NOS3	DNER	DDIT3	PPARG	THBD	MAP1LC3B
IL4	PRKCE	LY6E	DUSP2	GAPDH	ECI2	SMAD4	FEV	CCR2	ATG12
CYP3A4	GRB2	CRH	PRKACA	FGFR1	HSPA12A	BNIP3	TET2	GSN	FABP1
CYCS	NGF	CYP7A1	RPL6	IRF1	CYP7B1	CASP12	BNC2	CTNNA1	CPT1B
IL10	NOX4	JAK2	TGFB2	CYP4B1	FKBP1A	CFTR	BCAS3	COL4A1	IL11
PARP1	BCL3	PHGDH	ASIC1	SDHA	HADHB	CHRNA3	CASZ1	CKM	GSK3B
COL1A1	NR1H3	TLR2	GDF15	PTGIS	PTPRC	CHRNA5	MKS1	IL7R	PDGFRB
IFNG	TK1	ALAS1	XIAP	SCARB1	SLC9A1	NQO1	RNF220	MCM6	CSF3
EDN1	BECN1	MMP13	XRCC1	SCD	GPER1	AGER	CCDC91	SOCS3	E2F7
GSR	PDK4	TGFB1	ACLY	VSNL1	PGR	ERBB3	SLC30A10	AGR2	FOXO1
FASN	VDR	GADD45A	AURKA	ANXA3	FGFR3	FAIM2	FGD6	MMP13	FBXO32
INS1	FSHB	FTH1	CTSL	CDK2AP2	GHR	FAS	PRKCB	AQP1	IFT1
CASP8	POMC	NPPA	TPM3	SULT2A1	KLF5	FASLG	PKN2	CCL19	LITAF

MKI67	SOX9	WNT5A	WNT5A	SOCS3	MYOG	IREB2	CCL28	ENO1	RHOA
AGT	CAMK2D	BBC3	LILRB3	DUSP10	RRP12	PLAUR	C1GALT1	MIR125A	CDC45
ICAM1	CALCA	BCL2A1	SPP1	TMPO	ATP2B1	SMPD3	PDSS2	ANGPTL4	CORO1A
SOD1	CCNE1	COX2	ADAMTS4	DNAJB1	COL4A2	CASP8	ADAMTSL3	AQP3	FCER1G
CDKN1B	SMAD2	ITGB2	ACAA2	MAPK14	TJP2	CHRN4	ADGRG6	TNC	SLC7A7
APP	ECE1	UPP1	COL18A1	ARNT2	TWIST1	CTLA4	PTGS2	IKBKB	ABCG2
BCL2L1	TNFRSF1A	MGP	EIF4E	DLK1	SOCS2	MMP3	MICAL3	S100A4	AKR1B10
ESR1	TXNIP	PPP1R15A	SDC4	JAK3	CD40	HSPA4	TSHZ3	OLR1	APCS
IL12B	SERPINE2	MIF	ATAD2	MX1	KRT8	CHRM3	RARB	MMP8	MFN1
NR3C1	RGS2	ATP5F1A	TP53NP1	PTGDS	ACADVL	SCGB1A1	RNPEP	PPBP	APP
LPL	CTSB	DNMT1	CFB	COPB2	ATP1A2	PLB1	RREB1	CD68	CD40
VWF	IRS1	ABCA1	MMP12	SOX13	FOXA2	PRTN3	CCL2	ACTB	MIR185
PCNA	ODC1	HMGCS2	MVD	TNK2	IFI27	THSD4	SFTPB	MT3	KIF20A
S100A9	PRKCD	SPHK1	STIP1	RHOB	PAICS	CYBA	HHIP	THY1	PER1
ALB	CYP24A1	ANGPTL4	SLC6A1	TXNRD1	ULK1	HSPA1A	SGCD	GSTA4	GPRC5A
NOS3	CASP1	ALDH3A2	CASP4	HPCAL1	XRCC5	HTR4	LINC00598	PLA2G7	EFNA1
MPO	BIRC2	GRN	HES1	ACSL4	MCTP1	NFKB1	PCDH15	CXCL16	ANXA4
CXCL2	SP7	XBP1	IFT1	COL5A2	SGK3	RNF150	NCF1	OAS1	BCHE
COL3A1	PRL	NOS1	LITAF	COL6A1	TGM2	TNS1	BTC	CAR3	CYP3A5
CTSD	SLCO2B1	ADGRG1	CCND2	MAP3K1	ABCC4	CDH13	TBX1	ITGAM	ACTA1
ESR2	CCN5	HSF1	KL	TGFA	DNAJA1	HYKK	TGFB2	LMNA	PKM
CPT1A	CASP12	F2	ATP2B4	HAMP	IDH1	CYBB	THRA	MIR342	HMOX2
SREBF1	SRC	IL1RN	FSTL1	C1QB	NEFH	DNAAF4	TLR2	SMAD3	PARP1
IGFBP3	CCNA2	EGF	OLFML3	INHBB	BRCA1	PSORS1C1	TLR4	CREB1	CD177
RARA	HPGD	FHL2	GADD45G	ITGAV	CEACAM6	DLG2	TOP2B	SAA3	CTSK
SLC2A2	TGFBR2	MMP3	GSTA1	MAF	AGTR2	DNAH5	PPIEL	CXCL3	HSPA6
GPT	CLGN	CSF1R	HAVCR1	COL10A1	G6PC	DOCK1	AMD1P3	EREG	CCL22
STAT3	CYP17A1	ADAM17	RUNX2	EHHADH	OPA1	PDZD2	HIRA	MAP3K14	FDXR
STAT1	MAP2K6	INSIG1	ACAN	TSC22D1	JAG1	NPNT	DIRC3	CASP2	ODC1
CCN2	TGFBR1	CFL1	ARHGDI4	EDN2	TGFB1	HLA-DPA1	LINC00886	RAC1	SRC
PLAT	CYBA	COL5A1	NREP	OLFM1	FABP1	HLA-DPB1	UFD1	KRT15	LIPC
TLR4	NUPR1	TGFA	SERPINA1	NDUFA4L2	CPN1	HSPA1B	WAS	CCND1	GPX3
ADIPOQ	SLC2A1	SLC27A2	PMAIP1	TNC	STIM1	HSPA1L	ZKSCAN1	LEP	PDK4
MAOA	ADORA2A	STC2	ARNT	ANTXR1	NIBAN1	INPP5D	SLMAP	PLA2G4A	COX2
GCLC	HMGB1	PRDX2	INSR	APOM	SLC7A2	KCNK1	CYBC1	COL3A1	GIN52
THBS1	CAV1	RHBDF1	NOLC1	HOPX	TFAP2A	ARHGEF38	SPAG16	MAD2L1	ISYNA1
IL2	CYP1B1	PAK2	PTPN1	SERPIN5	CCL11	INTS12	SYNP02L	CDKN1A	CCNB2
PGR	HSPB1	CALR	KEAP1	NDC80	ORM1	CSMD1	DENND2D	GSR	NOTCH3
BAD	PDGFRB	RBP1	CYP3A4	PDE5A	CHEK2	WIPF1	STN1	GNB1	CXCL6
MAPK8	FGF2	LTBP1	CPT1B	PTPRR	ASS1	FTO	TMEM254	SLC22A1	MYL4
ITPR1	GGT1	TRADD	FLT1	SGK1	GLRX	GSTCD	PPP1R2C	TGFA	TXN
DKK1	MAPT	NR1H4	ACTG2	TGFBR2	ADH1A	GAB2	CEP70	NR4A1	APOLD1
VDR	SOD3	PON1	FGF9	CLDN11	COX6C	ZDHHC20P2	ADAM33	AGT	DNAJA1
MAP2K1	HSP90B1	ATF6	HYOU1	LAMB2	SMPD3	MAPT-AS1	HMGA2	CDKN1B	CTTN

PRKAA1	MYH6	FDFT1	IRAK2	MKNK2	SMAD7	WTAPP1	RSPH6A	TPM3	VDR
CRP	SELP	CFTR	P4HA1	NPY1R	BCL6	LINC01006	TSPAN14	RGS2	APOE
ERN1	COL4A1	GPM6B	SLC27A1	UQCRC2	CITED2	CHRM3-AS2	SYN3	FKBP5	MAP2K6
GPX1	FOXO1	ACE	SLC4A4	BMP7	HTR1A	MIA-RAB4B	LRMDA	G6PD	PFKP
ABCG2	PTGES	BCL2L11	SLC10A1	NFATC1	LPIN1	RAB4B-EGLN2	ADGRV1	CYP1B1	INIP
CDH2	TNFRSF10B	NANOG	GATA4	ARG1	PLPP1	NNT-AS1	ARMC2	HSPB1	GADD45B
TH	RASGRP1	AKT2	CSRP2	FGFR2	PLOD2	COX10-AS1	ZDHHC18	LEF1	MYH10
CEBPA	MYL2	DCN	HMCN1	GSTA2	CRYAB	CDH11	ABLM2	SPHK1	NCAPG
SCD1	FOXO3	FGR	CRP	OXT	NT5E	LINC01807	CAT	CFB	BCL2L1
DDIT3	SULF2	TPD52L1	PGF	NPTN	ISG20	LINC01876	TOX2	ASPM	GSTA2
SELE	HMGCS1	IL13	TRIB3	GART	SPTAN1	CD96	ADAM19	OGG1	TMC5
SPARC	GPX3	NUCB2	CDKN2C	TGFBR3	GSK3A	LINC02863	CDC123	GAS1	BAD
TRP53	PXN	SDC2	CTSC	CLDN1	SC5D	TESK2	HERC1	NLRP3	DSC2
TNFSF10	CKB	HSPA1A	DGAT2	GRIN1		CFDP1	PKD2L1	STAR	P4HA1
SQSTM1	MMP14	UCP1	NGFR	NCF2		RNASEH2A	IL33	BECN1	TFAM
CCL5	ZEB1	SLP1	COL1A2	SLC6A9		LINC01937	PLXNA4	HSPA8	TTR
HSPA5	ACHE	TIMP3	SRXN1	UBE2I		LINC01997	WDR20	ANXA2	ARG2
C3	HRAS	RXRA	CALCR	SERPINA5		LINC02625	MFHAS1	NUSAP1	ASS1
MMP1	PRNP	NCL	KNG1	CAPN2		MIR4527HG	KCNG4	HSPD1	S100A6
CD36	GLUL	HSP90AA1	DNMT3B	ITGA5		HSF2BP	ADIPOQ	CD83	HGF
CCL3	HSPD1	CYP27B1	IL33	SCNN1A		ADCY5	CDRT15P1	KRT8	RETNLA
CEBPB	CDK6	IL17A	RET	VCAN		SGF29	CDYL	S100A8	XDH
CYP2E1	DUSP5	SLC6A3	CD40LG	JUND		BTBD9	TBX4	ABCC1	SMC4
FASLG	PLAU	STMN1	CP	AKAP9		KLHL32	SEC24C	DNAJB4	PDE4B
ID3	PTX3	F8	CLIC4	ARPC1B		GALNT13	VGLL4	TXNRD1	PTPRC
BID	SFRP2	MAP2	EIF5A	COL8A1		BTBD11	TM9SF4	IHH	GSTA1
BDNF	AHR	UCP2	FLNB	GSTA4		TMEM219	ATP2C2	THBS1	TYMS
VIM	NPPB	BGLAP	CCNG1	PCSK5		UBR3	EDN1	CALML3	CDKN3
CCNB1	PLPP3	CD44	NRG1	PDLIM7		COMT	CSF2	SPON2	ISG15
S100A8	PLSCR1	S100A6	FGF8	FGF1		SCLT1	IL4	ITGB1	MGMT
SLC2A4	ABCC2	REN	TRIM16	HOXA5		CRP	CCL5	CDKN2B	C5AR2
FABP4	SERPINB2	PSMC3	CTH	ABCB1B		NOL4L	ICAM1	IL32	NRN1
EGR1	FDP5	TNFRSF21	LOX	RASD1		MAPK14	CD44	KRT18	CD24
NR1H2	INHBA	PRKCB	ATP1A1	SLC7A5		CSE1L	SOD2	XBP1	GGT1
ACP5	ACKR3	EPB41L1	TNFRSF10A	TNFRSF12A		ARHGAP42	CCL3	PRDX6	AIF1
AR	BGN	LTBR	ALDOC	GPRC5A		LYSMD4	NR3C1	TFRC	KCND3
XDH	SIRT3	PTEN	FADD	GSTT1		SLC35F3	ADRB1	FGF23	MTA1
TJP1	CCN1	CXCL5	GREB1	LRP1		CNTN4	FOS	GSTM3	CTSL
TIMP1	GCLM	ISG15	HSD17B4	SPTBN1		SCFD2	NFKBIA	CSF3R	CTSB
PRKCA	GRB10	ELK1	MAOB	GZMB		ADRB2	RELA	EIF2AK3	CTSS
DNAJB9	CASP2	IGFBP1	SLCO1A1	PFKFB4		AMZ1	MAPK1	H19	CTSF
GOT1	KLF4	IL15	TACC1	SERPINA3		SPPL2C	VCAM1	ABCC2	PAR2
CDK2	CASP6	MUC1	ATP1B1	SNAI1		ACE	SLC5A1	SLC22A4	PDE4
RRM2	ROCK1	IRS2	CDKN2B	TOP2B		GLIS3	IL2	TRADD	MADCAM1

COL1A2	STAR	TFAM	ADIPOR2	ADH1B	DMWD	CCL11	CENPF	CXCR2
RPS6	CTSS	TGFB3	APOD	DES	DPP6	FN1	NFIL3	CXCR1
ABCB1	ACOX1	E2F1	CPE	IL1B	CYS1	VIM	FTH1	CCR5
MYC	INS	MYD88	DCLK1	SLC2A3	FAM227B	BCL2	ADRB3	CCR5 mRNA
PPARA	ABCC5	MAP2K3	HDAC9	ASPH	ELANE	HSPA5	CXCL11	CHRM
HGF	ALDH1A3	HSP90AB1	TNFSF14	BHMT	CFAP221	NPPA	IGF1	NE
HIF1A	SLC20A1	PIM1	JAK1	CAMK4	ALB	KRAS	ANKRD1	p38 alpha
LHB	TFF1	PLA1A	SELENBP1	ETS1	JMJD1C	MAPK8	GDF15	Telomerase mRNA
EEF1A1	ITPR3	AOX1	LAMB3	HSPA4	SYCP2L	MAPK3	CCR7	CHRM1
MAPK9	ACACA	CSRP3	GPX2	PRMT1	ATXN7L1	MMP2	MMP11	MARCKS
PLA2G4A	GJA1	ENO2	CACNA1E	RELA	FGL1	FGF2	ARG1	Bact metB
SIRT1	NFKB2	RACGAP1	SFTPB	SLCO4A1	FBXL7	PON1	CCN1	ADAM17
BAK1	SNCA	CLU	TNFRSF11A	ALAD	ASTN2	PPARGC1A	FGF7	CHRM5
ATP1A1	ACTB	MET	UBB	LIF	USP24	SPP1	NPR3	CACNA2D1
PTGS1	NPM1	CD86	NCOA1	ELF3	SIRT1	GPX2	PTH	ATP1A1
ACTA2	TNFAIP6	ANXA1	APOA1	GDA	ZFPM2	SELP	GCLC	ADOR
IKBKB	EFNA1	KYNU	HNRNPH1	GREB1	POFUT1	ATF2	FST	PRO
TFRC	ALPP	PTH	HSPA9	LAMC1	NNT	F3	SRXN1	PDE4D
CXCR4	MAPK10	EPHX2	PLIN2	PSAP	ZBTB38	MIRLET7E	ITGB4	KC
ITGAM	RAF1	UBE2D2	IRF7	SRM	MMS22L	CDKN2A	CCL1	5-LOX
CYP1A1	H2AX	DUSP6	CHAT	TSLP	NIFK-AS1	NPPB	CSF1	CCR1
IL1A	NFE2L1	IGFBP2	ELOVL5	IER3	GABPA	ANXA3	CALCA	TACR2
HDAC1	TIMP2	NCOA2	OGDH	PLCB1	COPD	AREG	CLCA1	TACR1
LEP	CHUK	HNRNPAB	TCP1	OLFML2A	CCDC69	SELE	SGK1	TACR3
CXCL10	PDGFB	NCF1	TNFSF9	PTPRU	PTPN22	ACTA2	IRS1	PDE3
ATF2	SERPINE1	ACSL3	ESR2	ANGPT2	GC	CD14	FOSB	MMP-12
ABCC1	KRT5	PPP1R1B	ACADL	BSG	GLA	PRDX1	CDKN1C	D2R
CDK1	TNFRSF1B	GPER1	ACSL1	C4B	RBMS3	VWF	AGTR1	ROCK2
RGS4	HSPB8	THY1	ITGB1	NPC2	HPGDS	IL1RN	LTF	ROCK1
CREB1	IL6	TOP1	GDF10	ACOT1	TNRC6A	PECAM1	CD4	TNF-R1
TOP2A	TNFRSF11B	TNFAIP3	PRLR	MFN2	EML4	IL1R2	CXCR4	EPHX2
KDR	TNFSF11	ACACB	TRPV6	SLC38A2	GM2A	JUN	LBP	CO5
GSTP1	ALOX5	P2RX7	ARRB2	SLC22A8	GP1BB	DUSP1	LCAT	VIPR2
TRAF6	DUSP1	ALDH1A1	MDM2	TDO2	CRACR2B	CYP3A4	EGR2	ATIII
OCLN	MCL1	ACADM	NEFM	CD55	HNFI1A-AS1	CASP6	LIFR	p38
CYP1A2	POSTN	EIF2AK3	PPIA	CFD	LAMA1	MAPK9	S100P	P2RX7
SERPINH1	CCL20	IFIT3	ADRB1	ATM	NWD1	EGR1	CAV1	CIC
IL5	PTK2	AQP3	ARG2	HOXB9	C1orf185	AKT1	TIMP2	PCSK9
CYP2C9	ANXA2	EP300	CDKN3	NPHS2	GRIK4	BDNF	NEDD4L	CELA1
EGFR	SQLE	PDK1	AGR2	PLD3	GSTM1	IL1RL1	MYC	IL5RA
PECAM1	CES3	SLC40A1	TNF	AFP	GSTP1	IL12B	ITGA2	PTGDR2
SERPINE1	LBP	CH13L1	HSPA1B	TNFRSF25	GSTT1	CCL20	CCL7	CYM
PER2	DIO2	EPOR	CTSH	CDC20	GTF2I	CD86	CTNNAL1	CTSG
MMP7	SELL	PDHA1	MYLK	MGST1	HOOK2	S100A9	ATM	ADORA2A

CAPN1	SLC19A1	ATF4	RIPK1	UNG	CFH	ACHE	CYYR1	ESR1
COL2A1	SLC22A5	CD38	GLS	PAX8	ANXA5	ANXA1	MAOA	CASP7
CYBB	NOS2A	CLSTN1	LTF	WWC1	NRG1	OCLN	AURKA	DEPDC1B
ID1	DDIT4	RERG	MAP1B	SLC37A4	HIF1A	TNFAIP3	LIF	HSBP1
RELB	CBR1	SLC16A1	REL	GDNF	HLA-B	CXCL5	GCLM	TNFRSF1A
PCK1	DBN1	GSTM1	TGIF1	HRH1	ANXA11	PLAT	PHLDA1	ALDOA
MAPK14	SLC7A11	S100A4	CRIM1	KIF20A				

