

Table S8. The genes identified in the TRRUST database being regulated by the TFs, selected using the 10 genes from the validation set

A2M	AK4	AREG	BATF3	C1QBP	CCNE1	CDC42BPG	CHEK1	CRHBP	CYP11A1	DHFR	EGFR
ABCA1	AKAP12	ARF1	BAX	C4A	CCNG2	CDC6	CHEK2	CRHR1	CYP11B1	DIRAS3	EGLN1
ABCA3	AKR1B1	ARF6	BBC3	C4B	CCNT1	CDC73	CHGA	CRISP1	CYP11B2	DISC1	EGLN2
ABCB1	AKR1C2	ARG1	BCAR1	CA12	CCR1	CDCA7	CHI3L1	CRISP3	CYP17A1	DKK1	EGLN3
ABCB8	AKR1C3	ARG2	BCAS3	CA2	CCR2	CDH1	CHRNB4	CRMP1	CYP19A1	DKK3	EGR1
ABCC1	AKT1	ARL6IP5	BCL11A	CA9	CCR3	CDH11	CHRNE	CRP	CYP1A1	DKK4	EGR2
ABCC3	AKT2	ARNT	BCL2	CABIN1	CCR5	CDH2	CHST4	CRTC1	CYP1A2	DLG4	EGR3
ABCC6	ALAS2	ARNT2	BCL2A1	CABLES1	CCR6	CDH3	CHUK	CRX	CYP1B1	DLL4	EIF2AK1
ABCG2	ALDH1A1	ARNTL	BCL2L1	CACNA1H	CCR7	CDH5	CIAO1	CRYAB	CYP24A1	DLX5	EIF2AK2
ACAN	ALDH1A2	ASAH1	BCL2L1L1	CAD	CD14	CDK1	CIC	CSF1	CYP27A1	DMD	ELANE
ACAT1	ALDH1A3	ASAP2	BCL3	CALB1	CD151	CDK2	CIITA	CSF1R	CYP27B1	DMPK	ELF1
ACE	ALDOA	ASCL2	BCL6	CALD1	CD163	CDK20	CISH	CSF2	CYP2A6	DMRT1	ELF3
ACE2	ALKBH2	ASF1B	BDKRB1	CAMP	CD19	CDK4	CITED2	CSF3R	CYP2B6	DNAAF4	ELF4
ACHE	ALOX12	ASNS	BDKRB2	CAPN6	CD1D	CDK5R1	CKM	CSH1	CYP2C19	DNAJB4	ELK1
ACO1	ALOX15	ASPH	BDNF	CARD8	CD2	CDK6	CKS2	CSN2	CYP2E1	DNASE2	ELK4
ACRV1	ALOX15B	ASPM	BECN1	CARM1	CD22	CDKL5	CLDN2	CSNK2A1	CYP2F1	DNM3	ELMO3
ACTA1	ALOX5	ASPN	BEX2	CASP1	CD24	CDKN1A	CLDN3	CSRP1	CYP2J2	DNMT1	ELN
ACTC1	ALOX5AP	ASS1	BGLAP	CASP3	CD28	CDKN1B	CLDN7	CST5	CYP3A4	DNMT3A	EMX2
ACTG2	ALPI	ASXL1	BGN	CASP7	CD2AP	CDKN1C	CLK3	CSTA	CYP3A5	DNMT3B	ENG
ACTN4	AMACR	ATAD2	BHLHE22	CASP8	CD33	CDKN2A	CLOCK	CTBP2	CYP3A7	DOK1	ENO1
ACVRL1	AMH	ATF1	BHLHE40	CASP9	CD34	CDKN2B	CLU	CTCF	CYP7A1	DPYSL2	ENPP2
ADA	ANAPC4	ATF2	BHLHE41	CASR	CD36	CDKN2C	COL10A1	CTGF	CYP7B1	DRAM1	EP300
ADAM10	ANG	ATF3	BHMT	CAT	CD38	CDKN3	COL11A2	CTLA4	CYR61	DRD2	EPAS1
ADAM17	ANGPT1	ATG5	BID	CAV1	CD3G	CDX2	COL18A1	CTNNB1	DAB2	DRG2	EPCAM
ADAM23	ANGPT2	ATM	BIRC2	CBFB	CD4	CEACAM1	COL1A1	CTNNBIP1	DACT3	DROSHA	EPHA2
ADAMTS5	ANGPTL4	ATP1B1	BIRC3	CBS	CD40	CEACAM5	COL1A2	CTPS1	DAPK1	DSG4	EPO
ADGRB1	ANKRD1	ATP2A2	BIRC5	CBX5	CD40LG	CEBPA	COL2A1	CTSB	DAPK2	DST	EPOR
ADGRE5	ANPEP	ATP2A3	BLK	CCAR2	CD44	CEBPB	COL4A2	CTSD	DBF4	DUSP1	EPSTI1
ADH6	ANTXR1	ATP2C1	BLM	CCK	CD46	CEBPE	COL4A3	CTSL	DBH	DUSP10	ERAP1
ADIPOQ	ANXA8	ATP5F1A	BLMH	CCL11	CD58	CEL	COL7A1	CTSV	DBI	DUX4	ERAP2
ADIPOR1	APAF1	ATXN7	BMI1	CCL13	CD68	CELSR3	COMP	CUX1	DCBLD2	E2F1	ERBB2
ADIPOR2	APC	AURKA	BMP2	CCL19	CD69	CENPH	COP1	CX3CL1	CK	E2F2	ERBB3
ADM	APCS	AURKB	BMP4	CCL2	CD74	CENPW	COP5	CXADR	DCN	E2F3	ERCC1
ADORA1	APEX1	AVP	BMP7	CCL20	CD79A	CEP55	COX1	CXCL1	DCT	E2F6	ERCC2
ADORA2A	APH1A	AXIN2	BNIP3	CCL22	CD80	CERS2	COX6A1	CXCL10	DCB1	E2F7	ERCC4
ADORA3	APLNR	AXL	BRCA1	CCL3	CD82	CES1	COX7C	CXCL12	DB2	EAF2	ERCC5
ADRA1A	APOA1	B2M	BRCA2	CCL4	CD83	CETP	CPD	CXCL14	DDIT3	EAPP	EREG
ADRA2B	APOA2	B4GALT1	BRD7	CCL5	CD86	CFB	CPEB1	CXCL2	DDIT4	EBI3	ERG
ADRB2	APOA5	B4GALT5	BRIP1	CCL7	CD8A	CFH	CPT1B	CXCL5	DDR2	EBNA1BP2	ERICD
ADRB3	APOB	BABAM2	BR3	CCNA1	CD8B	CFI	CR2	CXCL8	DDX18	ECM1	ERN1
AFP	APOBR	BACE1	BSG	CCNA2	CD99	CFLAR	CRABP1	CXCR2	DDX21	ECT2	ERO1A
AGER	APOC3	BACE2	BST1	CCNB1	CDAN1	CFTR	CRABP2	CXCR4	DDX58	EDA	ERP29
AGR2	APOE	BACH1	BTG1	CCNB2	CDC20	CGA	CREB1	CXCR5	DEFB1	EDEM2	ERP44
AGT	APOM	BAD	BTG2	CCNC	CDC25A	CGB3	CREB3	CXCR5	DEFB103A	EDN1	ERVW-1
AGTR1	APP	BAG2	BTG3	CCND1	CDC25B	CGB5	CREBBP	CYBB	DEFB4A	EDNRB	ESR1
AHR	AQP3	BAK1	BTK	CCND2	CDC25C	CHAC1	CREM	CYFIP2	DEK	EFNB3	ESR2
AICDA	AR	BAMBI	BT51	CCND3	CDC34	CHAT	CRH	CYLD	DHCR24	EGF	ESRRA

Table S8. Cont. The genes identified in the TRRUST database being regulated by the TFs, selected using the 10 genes from the validation set

ESRRG	FGF4	FZD1	GPX4	HIP1	HSPA8	IL1R1	IVL	LAMC2	MAOB	MIR708	MYH9
ETNK2	FGF7	GOS2	GREB1	HIPK2	HSPB1	IL1RN	JAG1	LAMTOR5	MAP1LC3A	MITF	MYL9
ETS1	FGF8	GABPA	GRHL1	HIST2H2BE	HSPH1	IL2	JAK1	LAPTM4B	MAP1LC3B	MKI67	NAB2
ETS2	FGFBP1	GAD1	GRHL2	HLA-A	HTRA1A	IL21	JAK2	LBP	MAP3K1	MKNK2	NAMPT
ETV1	FGFR1	GADD45A	GRIN1	HLA-B	HTRA2	IL23A	JUN	LCA1	MAP3K5	MME	NANOG
ETV3	FGFR3	GADD45G	GRIN2B	HLA-C	HTT	IL24	JUNB	LCK	MAP4	MMP1	NAT1
ETV4	FGG	GALNT3	GRIP1	HLA-DOB	HYAL1	IL27	JUND	LCN2	MAPK1	MMP10	NBN
ETV6	FGL1	GAPDH	GRK2	HLA-DQA1	HYOU1	IL2RA	KAT5	LCT	MAPK3	MMP12	NCAM1
EVPL	FHLT	GAS2	GRM2	HLA-DQB1	IBSP	IL2RB	KDR	LDHA	MAPK8	MMP13	NCF2
EXO1	FHL2	GAST	GRPR	HLA-DRA	ICAM1	IL3	KHSRP	LDLR	MAT2A	MMP14	NCOR1
EXT1	FKBP4	GATA1	GSK3A	HLA-DRB1	ID1	IL32	KIF2C	LEF1	MBD1	MMP17	NDC80
EYA3	FLI1	GATA2	GSK3B	HLA-E	ID2	IL4	KIR2DL3	LEP	MBD2	MMP2	NDRG1
EZH2	FLT1	GATA3	GSTP1	HLA-F	ID4	IL5	KIR3DL1	LGALS3	MBP	MMP20	NDRG2
EZR	FLT3	GATA4	GT2F2B	HLA-G	IER3	IL5RA	KISS1	LGALS3BP	MC2R	MMP28	NEFL
F10	FLT4	GATA5	GT2F2F1	HLTF	IFI16	IL6	KISS1R	LGALS4	MCAM	MMP3	NEIL1
F12	FMN2	GBA	GT2F2I	HMGA1	IFIT3	ILK	KIT	LGALS9	MCL1	MMP7	NELL2
F2R	FMO3	GBP1	GUCY1B1	HMGA2	IFITM3	IMPDH2	KL	LHB	MCM10	MMP9	NES
F3	FMO4	GC	GUSB	HMGCS1	IFITM5	ING1	KLF10	LHX3	MCM2	MNAT1	NEUROG3
F7	FMR1	GCG	GYP A	HMGXB4	IFNA1	INO80	KLF11	LIN28A	MCM3	MPG	NF1
F8	FN1	GCK	H19	HMMR	IFNA13	INS	KLF12	LIPC	MCM4	MPL	NFATC1
FAAH	FOLH1	GCLC	H2AFX	HMOX1	IFNAR1	INSM1	KLF17	LIPE	MCM5	MSH2	NFE2
FABP4	FOS	GCM1	HAMP	HNF4A	IFNB1	INSR	KLF2	LMO2	MCM6	MSL1	NFKB1
FABP6	FOSL1	GCSAM	HAS2	HNRNPA1	IFNG	IPO13	KLF4	LMO7	MCM7	MSMB	NFKB2
FAF1	FOXA1	GDAP1	HAX1	HNRNPA2B1	IFNLR1	IPO7	KLF5	LMTK2	MCM8	MSR1	NGF
FAM162A	FOXA2	GDF15	HBA1	HOXA10	IGF1	IRAK2	KLF9	LNPEP	MCPH1	MST1	NGFR
FANCA	FOXC1	GDNF	HBA2	HOXA4	IGF1R	IRF1	KLK1	LOR	MDC1	MT1G	NKX2-1
FAP	FOXC2	GFAP	HBB	HOXA9	IGF2	IRF2	KLK2	LOX	MDM2	MTA1	NKX3-1
FAS	FOX E1	GFER	HBD	HOXB13	IGF2BP1	IRF3	KLK3	LPAR2	MDM4	MTA3	NKX6-1
FASLG	FOX F1	GF11B	HBE1	HOXB4	IGF2BP2	IRF7	KLK4	LPIN1	MECOM	MTDH	NLK
FAT1	FOX L1	GGPS1	HBEGF	HOXB7	IGF2R	IRF8	KLK1	LRBA	MED1	MTF1	NLRC4
FBLN1	FOX M1	GH2	HGB1	HP	IGFBP1	IRF9	KPNA1	LRG2	MEF2A	MUC1	NME1
FBN1	FOX O1	GIN S3	HBP1	HPGD	IGFBP3	IRS2	KPNA2	LRP5	MEF2C	MUC2	NME3
FBP1	FOX O3	GJA1	HCFC1	HPGDS	IGFBP5	ISG20	KPNB1	LRRN3	MEF2D	MUC3A	NMNAT2
FBXO32	FOX P1	GK	HCK	HPSE	IGK	ISL1	KRAS	LSS	MEFV	MUC4	NMU
FCER1A	FOX P3	GKN2	HDAC1	HRAS	IHH	ISYNA1	KRT10	LTB	MEG3	MUC5AC	NOL7
FCER2	FRMD5	GLI2	HDAC2	HRH1	IKBKE	ITGA2B	KRT12	LTBP1	MELTF	MUC5B	NOLC1
FCGR1A	FSHB	GLS	HDAC3	HRK	IL10	ITGA5	KRT15	LTBP4	MEOX2	MVP	NOS2
FCGR2B	FSHR	GML	HDAC7	HSD11B2	IL11	ITGA6	KRT16	LTBR	MET	MXD1	NOS3
FCGR3B	FST	GNAS	HDC	HSD17B1	IL12A	ITGAD	KRT17	LTC4S	MFS2A	MXI1	NOTCH1
FCGRT	FSTL3	GNMT	HERC2	HSD17B2	IL12B	ITGAV	KRT18	LXN	MGMT	MYB	NOTCH4
FDPS	FTH1P18	GNRH1	HES1	HSD3B2	IL12RB2	ITGAX	KRT19	LY96	MGP	MYBL2	NOV
FDXR	FTO	GNRH2	HEY1	HSF1	IL15	ITGB1	KRT5	LYL1	MIA	MYC	NOX1
FGB	FUS	GP6	HFE	HSP90AA1	IL17A	ITGB2	KRT7	MACROD1	MICA	MYCBP	NOX4
FGF1	FUT3	GP9	HGF	HSP90AB1	IL17C	ITGB3	L1CAM	MAD1L1	MICB	MYCN	NOX5
FGF19	FUT7	GPA33	HIC1	HSPA1A	IL18	ITGB3BP	L1TD1	MAD2L1	MID1	MYD88	NPAS2
FGF2	FXN	GP NMB	HIF1A	HSPA4	IL1A	ITGB4	LAMA1	MAML1	MIF	MYEF2	NPAT
FGF21	FXR2	GPX1	HINFP	HSPA5	IL1B	ITGB8	LAMA3	MAOA	MIR202	MYH10	NPHS1

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NPHS2	PBK	PIP	PRDM1	RAD51	RPS6KA3	SH3BP2	SNAI1	STAT6	TGFB1	TRA	VEGFA
NPPA	PBXIP1	PIP5K1C	PRDM2	RAD51AP1	RPTOR	SHC1	SNAI2	STIM1	TGFB2	TRAP	VEGFB
NPPB	PC	PKLR	PRDX3	RAD51B	RRM1	SHH	SNAI3	STK11	TGFB3	TRH	VEGFC
NPY	PKC1	PKP3	PRG3	RAD9A	RRM2	SHMT1	SNAP91	STMN1	TGFB1	TRIB2	VEGFD
NQO1	PKC2	PLAC1	PRKAB1	RAG1	RRM2B	SHAH1	SNAPC1	STS	TGFB2	TRIB3	VHL
NROB1	PCLAF	PLAGL1	PRKCA	RAG2	RRP1B	SIGMAR1	SNRPN	SULT1E1	TGFB3	TRIM22	VIM
NRIH3	PCNA	PLAT	PRKCE	RAP1A	RS1	SIRT1	SOC1	SULT2A1	TH	TRPS1	VIP
NRIH4	PCSK1	PLAU	PRL	RARA	RSP2	SIRT2	SOC2	SUMO1	THBD	TRPV6	VLDLR
NR1I2	PCSK2	PLAUR	PRNP	RARB	RUNX1	SIVA1	SOC3	SUMO2	THBS1	TSC1	VWF
NR1I3	PCSK6	PLD1	PRODH	RARG	RUNX2	SIX3	SOC5	SURF1	THBS2	TSC2	WASF3
NR2C2	PDE7A	PLG	PROM1	RARRES1	RUNX3	SIX5	SOD1	SURF2	TIMP1	TSHR	WDFY4
NR2F1	PDGFA	PLIN2	PROS1	RASGEF1B	S100A10	SIX6	SOD2	SYK	TIMP2	TSIX	WEE1
NR2F6	PDGFB	PLK1	PRRX1	RASGRP1	S100A11	SKP2	SOX14	SYN1	TIMP3	TUBB3	WFS1
NR3C1	PDGFC	PLK3	PSCA	RASSF1	S100A2	SLC10A2	SOX18	SYN2	TJP1	TWIST1	WNT2B
NR4A1	PDGFRA	PLSCR1	PSEN1	RB1	S100A4	SLC16A1	SOX3	TAC3	TK1	TWIST2	WNT3A
NR4A3	PDGFRB	PMAIP1	PSEN2	RBBP8	S100A6	SLC19A1	SOX7	TAF7	TLR10	TXN	WNT4
NR5A1	PDHA1	PMEPAL	PSG3	RBL1	S100B	SLC1A3	SOX9	TAGLN	TLR2	TXNIP	WNT5A
NR5A2	PDIAG	PML	PSG5	RBL2	S100P	SLC20A1	SP1	TAP1	TLR3	TXNRD1	WNT7B
NRAS	PDK1	PNRC1	PSIP1	RBM38	S1PR1	SLC22A2	SP100	TAP2	TLR6	TYK2	WRN
NRCAM	PDK2	PNRC2	PSMB10	RCC1	SAA1	SLC22A3	SP3	TAPBP	TLR9	TYMS	WT1
NRF1	PDK4	PODXL	PSMB5	RECK	SALL4	SLC22A8	SP7	TAT	TLX1	U2AF2	WTAP
NRIP1	PDX1	POLB	PSMB9	RECQL4	SAMD4A	SLC26A3	SPARC	TBP	TMPO	UBA7	WWOX
NT5E	PEBP1	POLD1	PSMC5	REEP5	SAP30	SLC29A1	SP11	TBX21	TMPRSS2	UBE2C	XAF1
NTF3	PEG10	POLD2	PTBP1	REG4	SART3	SLC2A1	SPINK4	TBX3	TNC	UBE2D3	XBP1
NTRK1	PEG3	POLH	PTEN	RELA	SAT1	SLC2A3	SPP1	TBX4	TNF	UBE2I	XIAP
NTRK3	PELP1	POLR3D	PTGDS	RELB	SCARB1	SLC2A4	SPRR1B	TBXA2R	TNFAIP3	UBE2S	XPA
NTS	PENK	POR	PTGER4	RELN	SCD	SLC39A1	SPRR3	TBXAS1	TNFRSF10A	UCN	XPC
NUPR1	PER1	POSTN	PTGES	REN	SCN9A	SLC3A1	SPRY1	TCEAL1	TNFRSF10B	UCP1	XPO1
OAS1	PERP	POU1F1	PTGIR	REST	SCNN1A	SLC4A2	SPRY2	TCF3	TNFRSF11B	UCP2	XRCC1
OAT	PF4	POU2AF1	PTGS1	RET	SDC4	SLC5A1	SQSTM1	TCF4	TNFRSF1B	UGT1A1	YBX1
OCA2	PFDN4	POU2F1	PTGS2	RETN	SDHB	SLC5A5	SRD5A3	TCF7L2	TNFRSF21	UGT1A4	YWHAQ
ODC1	PFKFB3	POU4F1	PTH	RETNLB	SELE	SLC6A4	SRF	TCN2	TNFSF10	UGT1A6	YY1
OGG1	PFKFB4	POU4F2	PTH1H	RGS10	SEMA6A	SLC6A6	SRPX	TDO2	TNFSF11	UGT1A9	ZEB1
OGN	PFKP	POU5F1	PTMA	RGS4	SERBP1	SLC9A1	SRR	TEK	TNFSF13B	UGT2B15	ZFHX3
OPRM1	PGA5	PPARA	PTN	RHO	SERPINB5	SLC9A3	SRSF1	TERF1	TOE1	UGT2B17	ZFP36
OSM	PGF	PPARD	PTP4A1	RHOB	SERPINB9	SLCO1B3	SRY	TERT	TOP1MT	UGT2B7	ZNF750
OXT	PGK1	PPARG	PTPA	RLN1	SERPINC1	SLCO4C1	SSTR2	TF	TOP2A	UHRF1	ZNF350
OXTR	PGR	PPARGC1A	PTPN1	RLN2	SERPINE1	SLPI	ST3GAL1	TFAM	TOP3A	UHRF1BP1	ZNF217
P4HA1	PHB	PIG	PTPN13	RNASEL	SERPINF1	SMAD3	ST3GAL3	TFAP2A	TP53	ULBP1	ZNF175
PADI1	PHGDH	PPM1D	PTPN6	RNF144A	SES1	SMAD4	ST3GAL4	TFAP4	TP53BP2	ULK1	ZHX2
PAEP	PHLDA1	PPP1R13B	PTPRC	RNF2	SETD2	SMAD6	ST3GAL5	TFDP1	TP53I3	UPP1	
PARP1	PIAS3	PPP1R3C	PTPRG	RNF7	SF1	SMAD7	ST6GAL1	TFE3	TP53INP1	USP26	
PAX2	PIGR	PPP2CA	PTPRO	ROR1	SFN	SMARCA4	STAR	TFF1	TP63	USP7	
PAX3	PIK3CA	PPP2R2B	PTTG1	RORA	SFRP1	SMARCB1	STAT1	TFPI2	TP73	UXT	
PAX5	PIK3R3	PPP2R2D	PVR	RP1	SFRP5	SMARCD3	STAT2	TFRC	TPH1	VCAM1	
PAX6	PIM1	PRAM1	RACGAP1	RPA2	SFTPB	SMN1	STAT3	TG	TPO	VCAN	
PAX8	PIN1	PRC1	RAD21	RPRM	SFTPD	SMYD1	STAT4	TGFA	TPT1	VDR	