

Supplementary Table SI. Differentially coexpressed genes (DCGs) in samples from Parkinson' disease

Genes	P-value	Genes	P-value	Genes	P-value	Genes	P-value
SLC39A11	0.0031	IL18RAP	0.255839	RPS3	0.065966	FAM66C	0.322321
ZCCHC6	0.004934	SLC5A3	0.255839	SYNDIG1	0.071067	MTERFD3	0.322321
FAM120A	0.006344	MED7	0.258394	FAM69A	0.071067	LOC283075	0.322321
ORMDL3	0.006897	DDX27	0.27152	RAB5C	0.074629	SHISA4	0.322321
TMEM168	0.007932	GLYR1	0.27152	DOC2A	0.075937	OLIG2	0.322321
FOXN3	0.008447	WDR53	0.27152	BCL9L	0.075937	CUEDC1	0.322321
ADCY8	0.008591	IGFBP3	0.27152	RNASEH2C	0.075937	ZNF175	0.322321
TINAGL1	0.008591	C19orf24	0.27152	PAGR1	0.078825	HNRNPH3	0.32283
BEST1	0.009117	SAP30L	0.274075	SIMC1	0.079951	GGT5	0.32283
DANCR	0.011441	SGSM3	0.279645	STARD7	0.080825	CDKN2C	0.32283
ARHGDI1	0.014286	ZMPSTE24	0.28163	CTHRC1	0.092689	ADCY9	0.334243
SOCS7	0.014728	KDM4C	0.28163	NSAP11	0.092689	SETBP1	0.334243
ATF7	0.019738	SIKE1	0.28163	HHIP	0.092689	EPHA3	0.342612
IFT172	0.020959	GDPD3	0.28163	LOC401052	0.092689	MSH3	0.342612
UEVLD	0.024181	MYRF	0.28163	TMSB4X	0.092689	C11orf83	0.342612
COBLL1	0.024181	STARD10	0.283589	UNC13B	0.092689	USP21	0.342612
RBM27	0.026646	VWF	0.30115	AKAP13	0.092689	PAPD4	0.342612
SPATA13	0.028799	TARDBP	0.30115	SGK2	0.092879	RIPPLY2	0.344608
MAP3K1	0.028799	FRAT2	0.30115	SAFB2	0.0989	MYL12A	0.344608
RRAD	0.031222	PTK2	0.30115	DPF2	0.099194	FAM217B	0.344608
TNFAIP3	0.034626	NOL11	0.30115	P4HA1	0.099194	TSC22D1-AS1	0.344608
RELN	0.039478	ATG4A	0.307249	HBEGF	0.100178	LOC100132352	0.349062
TNRC6C-AS1	0.040232	MICAL3	0.307249	FAM126A	0.100178	COL27A1	0.349062
ZNF589	0.043661	ZNF207	0.307249	GPR124	0.100178	KCTD2	0.360535
SLC35A3	0.043661	CCDC151	0.307249	DDX23	0.100472	PARK7	0.360535
LTBP1	0.043661	RIC8B	0.307249	BCAR1	0.107911	TMEM106C	0.360535
CBFA2T2	0.043842	RNF8	0.3079	KCTD1	0.112012	CDK2AP2	0.366411
EIF1AX	0.045399	MYO6	0.3079	NPRL2	0.112748	SMC5	0.377372
NUCKS1	0.045399	MYH7B	0.322321	NEK3	0.124013	BIRC2	0.377372
TMEM209	0.045399	SEBOX	0.322321	MMRN2	0.12558	LOC644656	0.377372
IL6ST	0.045399	ICAM1	0.322321	APOM	0.131873	CLN8	0.377372
YTHDC1	0.054295	TMEM61	0.322321	CTSO	0.131873	ZNF653	0.377372
GAS2L1	0.058172	PIK3IP1	0.322321	AK3	0.131873	ZNF596	0.385135
B4GALT3	0.058172	WRAP53	0.322321	BRWD3	0.134054	DKFZP586I1420	0.385135
FANCG	0.058172	HIF1AN	0.322321	TAF5	0.135479	DMTF1	0.385135
HECA	0.064959	CTSK	0.322321	PHF15	0.135479	TNFSF4	0.385135
PURG	0.065546	SNAP29	0.322321	C18orf8	0.141024	ZNF133	0.385135

Supplementary Table S1. Cont.

Genes	P-value	Genes	P-value	Genes	P-value	Genes	P-value
SIRT4	0.141057	TMEM205	0.385135	SALL2	0.200212	ZNF415	0.442127
PSMD6-AS2	0.141057	UTP3	0.385135	TRIB2	0.200212	PQLC1	0.442127
RCC2	0.141057	SUPT7L	0.385135	LOC441402	0.200212	RPTOR	0.442127
ACTR3C	0.141057	EIF3G	0.385135	MID1	0.200212	CRIM1	0.442127
EPC1	0.15481	ELOF1	0.385135	LOC100133130	0.200212	FASTKD1	0.442127
TTYH2	0.156607	KPTN	0.385135	CLIC4	0.200212	ZNF582-AS1	0.442127
SLC30A3	0.156607	IRX1	0.385135	CENPT	0.200212	CSK	0.442127
AP3B1	0.156607	SLITRK2	0.385135	G6PD	0.200212	SPR	0.442127
KEAP1	0.161695	SGK494	0.385135	COASY	0.200212	FASTKD3	0.442127
GID8	0.164852	RP9P	0.385135	KCNJ2	0.203205	SOX2-OT	0.442127
AURKAIP1	0.165423	ABCC10	0.385135	P2RX7	0.204701	AARS	0.442127
IP6K1	0.165423	LMNA	0.386662	LOC100507316	0.204701	ZRANB1	0.443717
TMEM161B-AS1	0.165423	C5orf48	0.386662	MRPL27	0.204701	LCOR	0.443717
TADA3	0.165423	ECSIT	0.386662	LOC100127983	0.204701	ZNF540	0.444353
FKBP4	0.165423	SEC14L2	0.388172	SLC35A1	0.216995	PAPD5	0.444353
ADAM15	0.165423	MRPS6	0.388172	PIDD	0.216995	CCDC117	0.444353
ZBTB22	0.165423	NUDCD3	0.406048	ADAM11	0.216995	LINC00493	0.444353
ATG4D	0.165423	ARHGAP21	0.411336	LOC100506421	0.216995	PELI2	0.444353
KLHL18	0.170384	SDS	0.411336	CCDC101	0.22035	PHF21A	0.444353
GAS1	0.170384	SEMA6D	0.411336	CAND2	0.229876	DEDD2	0.444353
CLEC11A	0.176788	PIP5K1C	0.411336	TMEM18	0.229876	MORC3	0.452586
NAA15	0.176788	CCAR2	0.411336	NUDT9	0.229876	WDR17	0.452586
RBM4	0.176788	NAA30	0.411336	SOX12	0.229876	MRPL34	0.452586
VPS4A	0.176788	SUPV3L1	0.411336	PSME4	0.229876	PGBD5	0.462336
PTPN11	0.176788	AASS	0.412522	CTSV	0.229876	DNA2	0.463093
FAM195B	0.176788	SCAMP4	0.412522	PBLD	0.235722	HINFP	0.463093
SMIM10	0.176788	CLSTN1	0.431316	HGSNAT	0.235722	C1RL	0.476306
EME1	0.176788	RBM3	0.431316	MGC21881	0.235722	USP13	0.476306
PPP1R26	0.176788	C1orf132	0.438026	PRKCSH	0.235722	LRP5	0.476306
CLEC18A	0.176788	FLCN	0.438026	SLFN5	0.235722	SLC25A38	0.476306
SLC47A1	0.176788	ACVR2A	0.438026	CYB561D1	0.235722	SEC24C	0.476306
TBC1D31	0.177647	UBQLN4	0.442127	CCT3	0.235722	GPR108	0.476306
IL1R2	0.180218	NKAPL	0.442127	MRPL28	0.237483	PPP2R2D	0.480766
GAREML	0.180218	PKD1P1	0.442127	FZD9	0.237483	PCBD1	0.493836
AFTPH	0.189884	ISLR2	0.442127	AUP1	0.237912	RALGPS1	0.493836
MGARP	0.197021	EFNA3	0.442127	RBM14	0.237912	LOC100506238	0.493836
LOC100507534	0.200212	SLC25A1	0.442127	ULK3	0.251119	PPP1R16A	0.493836

Supplementary Table SI. Cont.

Genes	P-value	Genes	P-value	Genes	P-value	Genes	P-value
GKAP1	0.251119	LOC100996457	0.493836	ROBO4	0.253091	TCHP	0.493836
RBM23	0.253091	MRPL48	0.493836	MUM1	0.253091	LPCAT1	0.493836
LOC728743	0.253091	IGBP1	0.493836	STK36	0.253091	LOC100505549	0.493836
ATP5E	0.253091	TMEM252	0.493836	INTS3	0.253091	FAM73B	0.493836
PPP1R3F	0.253091	HSPG2	0.493836	CDKL2	0.253091	ZDHHC9	0.493836
ZNF74	0.253091	PTPDC1	0.493836	KRBOX1	0.255572	ADD1	0.493836
LOC100505679	0.253091	PDS5B	0.493836	BANP	0.255572	LOC284023	0.493836
GLIS3-AS1	0.253091	HDDC3	0.493836	ZNF248	0.255572	EPC2	0.494275
ACPL2	0.253091	TMEM57	0.493836	HNRNPC	0.255839	ZEB2	0.494275
BCO2	0.253091	TIGD7	0.493836			LOC283588	0.494275
AIF1L	0.253091	PHF14	0.493836			CREBBP	0.494275

Supplementary Table SII. Differentially coexpressed gene pairs or links

Gene 1	Gene 2	Correlation	Gene 1	Gene 2	Correlation
RAB5C	GAS7	0.665632	C1orf65	ADAM15	0.775213
YTHDC1	MRPL28	0.666797	GPR124	PAPD4	0.775317
ZRANB1	DNAJB6	0.667246	HEXIM2	TBC1D31	0.775413
SGK2	ATF7	0.669456	TARDBP	FAM126A	0.776251
ZBTB22	HAGH	0.671914	APOM	STK11IP	0.776637
TTYH2	PTK2	0.672769	HNRNPH3	CDKN2C	0.777495
MGARP	TMEM106C	0.672774	TMEM161B-AS1	RELN	0.777633
AURKAIP1	TRO	0.673764	FILIP1L	C19orf24	0.778171
SUPV3L1	MALL	0.673826	TRPC5	SLFN5	0.778274
COX17	SEC14L2	0.674391	SRP68	POLN	0.778704
SPATA13	PHF21A	0.675123	UBQLN4	XRRA1	0.778742
EMILIN3	EIF1AX	0.675208	C18orf8	THAP2	0.779215
MMRN2	FAM50A	0.675744	TMEM168	CXXC1	0.779347
TMEM252	LOC100506392	0.676232	MRPL34	ATF7	0.779824
AKR1C3	THAP2	0.677423	GPR56	GGT5	0.779834
AP3B1	SYNDIG1	0.678208	PANK4	TMEM209	0.779842
SLC35A3	ELOF1	0.679435	CCT3	RPS3	0.780102
GAS1	BANP	0.679759	FAM220A	ECSIT	0.780117
AP3B1	DMTF1	0.679873	MADD	RBM3	0.780265
HNRNPH3	CRIM1	0.68119	CDKN2C	ZNF615	0.780462
BCL9L	AUP1	0.68223	DANCR	ZNF32	0.780891
STYXL1	HYLS1	0.683493	LOC284023	ARHGDI1A	0.780914
GDPD3	MED7	0.684459	NOL11	HECA	0.781478
ABCC10	ZNF653	0.685064	NOL11	CREBBP	0.782053
KANSL1L	LOC100287896	0.686008	STAT3	KDM6A	0.782553
PPP1R3F	CTSO	0.686279	ZCCHC6	KLHDC3	0.782838
ADAM11	SLC25A1	0.686753	AKR1C1	RCC2	0.7832
ATG4D	HYLS1	0.686941	RSG1	SGK494	0.783314
PRKCSH	GGT5	0.687134	PHF15	ZNF32	0.783597
REXO4	CENPT	0.687242	MYL12A	VWF	0.785607
GATS	AHSA1	0.687351	SOX12	BCL9L	0.785691
MGARP	C1orf132	0.687754	TMEM18	TMCC1	0.786386
RHOA	PURG	0.687901	DANCR	AUP1	0.786654
TSC22D1-AS1	DANCR	0.689267	G6PD	RELN	0.787078
GLTSCR1L	ADCY9	0.689661	RBM14	FLCN	0.787291
YTHDC1	CDKL2	0.689947	C18orf8	KEAP1	0.788041
SIKE1	LOC100507316	0.690402	AKR1C3	RPL23A	0.78847

Supplementary Table SII. Cont.

Gene 1	Gene 2	Correlation	Gene 1	Gene 2	Correlation
PAPD4	NAT8L	0.691467	MMRN2	SAFB2	0.788848
CLSTN1	ZNF329	0.691703	SGK2	RAB24	0.788876
DPF1	ZNF322	0.691955	ULK3	PIP5K1C	0.789443
SLC35A3	DDX27	0.692377	ZNF558	GKAP1	0.790686
MAP3K1	PAPD7	0.692564	HGSNAT	CCDC101	0.791788
FASTKD3	ING4	0.692881	AK3	SHISA4	0.791902
DNAJA1	CDK2AP2	0.693346	PTK2	NEK3	0.792315
HNRNPC	RBM14	0.693413	C5orf48	FAM214B	0.793629
POLR2H	MAP3K1	0.693478	CLSTN1	FBXO34	0.794629
COBLL1	UNC13B	0.694035	CLDND1	CTBS	0.795241
SNAP29	COA5	0.694147	TRO	BEST1	0.796118
FAM69A	FAM66C	0.694976	ZNF596	DPH6	0.796371
TYK2	SIKE1	0.695313	SOCS7	KRBOX1	0.796804
RACGAP1	SLC39A11	0.695544	AKR1C3	ZNF558	0.797313
EFNA3	PILRB	0.696096	MRPL28	SASS6	0.797715
SLITRK2	PSME4	0.69616	FAM214B	FAM177A1	0.797786
TMEM205	TADA3	0.696163	SLC30A3	SLC25A38	0.798581
G6PD	PELI2	0.696287	SLC5A3	SAP30L	0.798998
MORC3	DDX23	0.696394	GAREML	CTSV	0.799211
PBLD	C9orf114	0.697116	MGARP	AFTPH	0.79981
MICAL3	FANCG	0.69769	EIF3G	ANXA13	0.800648
MED7	IFT20	0.69807	MYRF	MYO6	0.800779
GPBP1	RPS3	0.698613	SIMC1	IL1R2	0.800833
LCOR	CDKN2C	0.698719	SYNDIG1	ORMDL3	0.80215
CLEC11A	RPTOR	0.700009	TRERF1	RMND5B	0.802416
HPS4	MAP3K1	0.70009	TTC4	NOL11	0.802699
ULK3	SDR39U1	0.700762	HINFP	GID8	0.802906
METTL17	FAM89B	0.701048	SEC24C	WDR53	0.803193
ATG4A	STARD7	0.701361	NR2F6	GGT5	0.804316
FAM195B	UEVLD	0.701617	ISLR2	CTSO	0.805654
CNTN3	PIP5K1C	0.701669	VPS4A	LOC100996457	0.806169
RELN	AKIRIN1	0.701764	ZBTB22	EME1	0.807536
POLR2H	PHF15	0.702876	SERTAD4-AS1	DNAJB6	0.807667
ZNF302	SAFB2	0.702911	LINC00085	CTSV	0.808987
PGBD5	DEDD2	0.703082	TTYH2	ATG4D	0.80956
AKR1C2	RCC2	0.703452	STARD7	KEAP1	0.810762
NUDT9	CDK2AP2	0.703591	EPC2	RELN	0.811475

Supplementary Table SII. Cont.

Gene 1	Gene 2	Correlation	Gene 1	Gene 2	Correlation
DDX23	FZD9	0.704441	PTPDC1	SLFN5	0.81171
IFT172	MRPL34	0.704529	IFT52	ZFY	0.813463
COQ5	LINC00883	0.704608	SALL2	LOC100127983	0.813919
RIC8B	MRPS6	0.704688	SGSM3	PPP2R2D	0.813959
SLC35A1	EIF1AX	0.704845	CAND2	RBM14	0.813973
FSD1	EMR2	0.70634	PSMD6-AS2	MRPL27	0.815491
ZRANB1	HINFP	0.706393	BRWD1-IT2	SALL2	0.815516
TAF6	CCAR2	0.706605	ARHGAP21	MTMR9	0.815582
SIMC1	MYRF	0.70675	EPC2	TSHZ1	0.815658
SLC30A3	LINC00493	0.706752	TMEM209	FKBP4	0.816664
GDPD3	DKFZP58611420	0.707565	SIRT4	SDS	0.816722
GAS1	CYB5R3	0.70889	P2RX7	PNPT1	0.818855
IL18RAP	PARK7	0.709429	MGAT5	INTS7	0.81942
BEST1	NAA30	0.709523	ROBO4	PPP1R26	0.819725
ZNF589	MTERFD3	0.709832	SUPT7L	NUCKS1	0.819751
ELL2	IL1R2	0.710198	LOC100505616	DANCR	0.822495
CTSK	ACVR2A	0.710466	MGC21881	KCNE4	0.826594
CBFA2T2	HNRNPH3	0.710648	MORC3	CCNA2	0.828465
FOXN3	TMEM106C	0.71069	KEAP1	DANCR	0.831446
TARDBP	ORMDL3	0.710724	NUDT9	USP21	0.831621
FAM217B	SPATA13	0.71134	KEAP1	PHF15	0.833533
PELI2	FAM177A1	0.711763	ZFYVE19	AFF4	0.83629
LOC100507534	MRPS6	0.712368	FANCG	AKIRIN1	0.836387
IGFBP3	ZNF558	0.7128	SAFB2	SEC24C	0.841517
B4GALT3	AARS	0.71284	IL18RAP	TRO	0.845323
CBFA2T2	SIMC1	0.713007	BCAR1	COX5B	0.845612
HBEGF	CLIC4	0.713473	ADAM11	PPP1R3E	0.862545
ZNF302	FLCN	0.713542	DTYMK	DPF2	0.864514
B4GALT3	IL13RA1	0.714584	WRAP53	COASY	0.865362
ACOT4	INTS8	0.714789	TSC22D1-AS1	CDKN2C	0.868529
PBLD	RBM3	0.714931	BIRC2	IFT172	0.872978
ADCY8	KIT	0.715138	GLIS3-AS1	ACPL2	0.873489
STYXL1	PPP2R2D	0.715539	PNPT1	PHF15	0.873656
YTHDC1	MRPL27	0.715824	AUP1	GID8	0.874339
RPL23A	GID8	0.716928	HNRNPC	ZC3H11A	0.877884
TINAGL1	GAS2L1	0.717497	DDX23	GKAP1	0.878576
ZMPSTE24	DANCR	0.717535	RBM10	LOC100507316	0.880503

Supplementary Table SII. Cont.

Gene 1	Gene 2	Correlation	Gene 1	Gene 2	Correlation
RNASEH2C	KAT2A	0.717732	KLHDC3	P4HA1	0.881307
KEAP1	GAREML	0.717779	UBE2H	STIP1	0.883021
LOC283588	BRWD3	0.718062	IFT20	GKAP1	0.891357
ZCCHC6	VWF	0.718403	DDX23	OPALIN	0.892811
EPC1	LCOR	0.718808	ZCCHC6	LMNA	0.893397
NSAP11	MUM1	0.719009	SLC39A11	LOC100506421	0.894087
PAGR1	FANCG	0.719549	GAS1	LCOR	0.899627
TMEM161B-AS1	FAM13A	0.72012	FBXL20	SPR	0.903214
CENPT	PPM1G	0.720382	MMRN2	SLC39A11	0.90482
GABPB2	SMARCD1	0.720437	HBEGF	LOC157562	0.906393
SMIM10	AKAP13	0.720866	FRAT2	STARD10	0.907689
KIFC2	IL6R	0.720963	FRAT2	PTK2	0.909336
COX17	LOC100507534	0.72121	KIFC2	GGT5	0.909525
LOC100132352	DANCR	0.721718	SOCS7	PPP2R3A	0.909905
RNF111	ZNF653	0.721796	HNRNPC	GKAP1	0.912051
HNRNPC	RPL37A	0.721945	USP13	ZNF420	0.917039
TMEM120A	KDM4C	0.721991	ULK3	BEST1	0.920931
LOC100132352	STARD7	0.722223	IFT20	DANCR	0.920968
IFT172	LINC00493	0.722911	ZEB2	SMARCD1	0.921706
KEAP1	HECA	0.72321	ZNF589	PARK7	0.926624
CTHRC1	UTP3	0.723995	FOXN3	AFTPH	0.929157
SOX12	ZNF248	0.72406	MYL12A	ZNF558	0.933128
DNA2	MAP3K1	0.725738	DDX23	HECA	0.936146
MID1	IRX1	0.72577	EPHA3	DDX3Y	0.939478
FRAT2	ULK3	0.726514	ZC3H11A	SAFB2	0.93959
USP13	MRPS6	0.726596	STARD7	LOC100506421	0.946458
KCTD1	HEXIM2	0.726786	TNFAIP3	LTBP1	0.948828
MRPL34	STARD10	0.726858	THAP11	TAF5	0.954839
GAREML	PNPLA6	0.727342	LOC283588	AFTPH	0.956706
CCDC117	CCNA2	0.727548	NUDCD3	RBM14	0.958372
SLC35A3	EPHA3	0.727656	RBM27	BRWD3	0.96115
SSR3	FAM117B	0.728003	MYL12A	IGFBP3	0.96541
SLC25A23	SLC35A1	0.728293	PGBD5	ZEB2	0.96553
FOXN3	SLC5A3	0.728595	PGBD5	BEST1	0.972156
TMEM116	CHMP4A	0.728625	MMRN2	LOC100506421	0.974941
SERTAD4-AS1	GTF3A	0.728707	ZEB2	ECSIT	0.976536
ZRANB1	TSHZ1	0.729034	DNA2	KLHL8	0.976983

Supplementary Table SII. Cont.

Gene 1	Gene 2	Correlation	Gene 1	Gene 2	Correlation
FAM13A	SETBP1	0.729066	TMEM38A	RNMTL1	0.978559
BCL9L	PAGR1	0.729231	ABCA5	RNASEH2C	0.986305
ATG4A	CTSV	0.729617	CCDC151	NQO2	0.991497
GPR124	ZNF582-AS1	0.729928	C1RL	CLN8	0.992884
ZRANB1	TARDBP	0.730455	MSH3	MSL2	0.993935
GID8	SAP30L	0.730894	MCL1	P4HA1	0.994407
ZNF74	CYB561D1	0.73221	WDR17	KCNJ2	0.995393
TINAGL1	LOC644656	0.732246	MRPL34	SEC14L2	0.99617
ACTR3C	CHMP7	0.732299	RIPPLY2	STRA13	1.002182
CAD	PSME4	0.732819	SGSM3	RIPPLY2	1.005065
ZMPSTE24	ATP5E	0.733097	HDCC3	BRWD3	1.009555
TMEM168	SAP30L	0.733332	DANCR	GID8	1.010554
PDIK1L	NOL11	0.733406	GDPD3	TPD52L2	1.010782
SOCS7	KCNH2	0.734378	RARA	ANKRD18A	1.012796
IFT52	FOXN3	0.734407	TEX30	ATF7	1.018188
MRPL28	CCNA2	0.734694	SIMC1	ULK3	1.020188
SHQ1	RCC2	0.734706	EPC2	HECA	1.020286
PDZD4	IRS1	0.734822	DOK4	ENGASE	1.02437
PHF14	SCAMP4	0.735429	RPS6KA2	TBC1D31	1.026137
LOC100132352	GPR108	0.735448	PIK3IP1	NTAN1	1.033179
FOXN3	STARD10	0.735644	METTL17	PAGR1	1.039972
C5orf45	GCHFR	0.735772	ZCCHC6	SF3B2	1.046732
LOC100505616	HECA	0.7363	TAF5	SAP30L	1.049964
C9orf114	RNASEH2C	0.736369	FAM120A	ACTR3C	1.051545
ZRANB1	MAP3K1	0.736509	TMEM18	ZNF248	1.051925
CCAR2	RNF44	0.737008	CBFA2T2	SPATA13	1.052293
SLC5A3	PAPD7	0.73707	ZCCHC8	TSHZ1	1.058547
SOCS7	FBXO34	0.737115	LCOR	NUDCD3	1.058633
ZNF175	PSME4	0.73724	DOC2A	HINFP	1.058916
C11orf83	BAG6	0.737462	TNRC6C-AS1	SIKE1	1.061659
TRIB2	ZNF329	0.737946	FOXN3	SCAMP4	1.062091
VWF	AASS	0.738199	HSPG2	INTS3	1.065059
TAF5	ADAM15	0.738492	LRP5	LOC100507316	1.070661
SOX12	CREBBP	0.738661	ZC3H11A	NUDCD3	1.076809
RIC8B	SH3D19	0.738961	ZEB2	RIPPLY2	1.081935
KCNJ2	VWF	0.738978	CAND2	KDM4C	1.081943
CLSTN1	NQO2	0.739012	EPC1	TMEM168	1.083271

Supplementary Table SII. Cont.

Gene 1	Gene 2	Correlation	Gene 1	Gene 2	Correlation
RBM27	NAA15	0.739288	SLC35A1	BEST1	1.085683
DOC2A	GLTSCR1L	0.739508	MGC21881	MORC2-AS1	1.086912
TMEM18	BANP	0.739516	DDX23	STARD7	1.089631
IP6K1	CLIC4	0.739813	ARHGAP21	MADD	1.090935
KCNH2	COLEC11	0.740162	DOC2A	TSHZ1	1.094252
ZNF222	RPS27	0.740238	GLYR1	FUS	1.107758
KIAA0922	SLC39A11	0.740375	DMAP1	AURKAIP1	1.108951
PCBD1	SLC30A3	0.740484	PSMD6-AS2	SEMA6D	1.108952
FZD9	HECA	0.740521	KDR	NPRL2	1.109805
FAM120A	KIT	0.740944	TMEM168	KRBOX1	1.109977
ZMPSTE24	GPR108	0.741153	FAM120A	KCTD1	1.110687
BCAR1	MRPL27	0.741392	DDX23	DANCR	1.11113
MSH3	CCDC101	0.741711	PSMD6-AS2	CCDC117	1.124244
TNRC6C-AS1	LRP5	0.741965	LOC728743	KPTN	1.131554
ADAM11	PGBD5	0.742646	PAPD5	RNF145	1.132375
MGARP	SCAMP4	0.742711	SIMC1	SPATA13	1.137035
MORC3	OPALIN	0.743092	SAFB2	GKAP1	1.137541
CDK2AP2	BANP	0.74314	CBFA2T2	LOC100127983	1.139056
ARHGDI1A	RELN	0.74332	LOC283588	HECA	1.142447
MORC3	ZC3H11A	0.744104	WDR17	CERS4	1.147559
COG2	GID8	0.744194	MYL12A	PPP1R14B	1.148423
IZUMO4	UMOD	0.744387	KIFC2	KCTD2	1.149066
AP3B1	RPS3	0.74502	PPP2R2D	PURG	1.154975
ZNF133	UEVLD	0.745529	CLDND1	SPATA13	1.156818
HNRNPC	KDR	0.745667	HNRNP3	RPS3	1.158429
LOC401052	HHIP	0.746618	FOXN3	ZNF250	1.159532
FBXO34	LZTR1	0.74674	LOC441402	PARK7	1.162188
MID1	ARHGDI1A	0.747096	STAT3	P4HA1	1.170986
PRUNE	SGK2	0.7472	RRAD	MMS19	1.174269
PGBD5	KCNH2	0.747874	STARD7	DNAJB6	1.176396
LCOR	BCL9L	0.747996	COL27A1	SLC5A3	1.200875
IL18RAP	BEST1	0.748167	EPC1	PAGR1	1.201047
LOC100132352	SAFB2	0.748756	ICAM1	LTBP1	1.208889
RBM23	IFT172	0.748826	DDX23	CCDC101	1.210567
KLHL18	TBC1D31	0.749051	FSD1	P4HA1	1.227019
FAM13A	AFTPH	0.750084	TNFAIP3	WDR53	1.233629
BCL9L	SAP30L	0.750159	TMSB4X	RP9P	1.248661

Supplementary Table SII. Cont.

Gene 1	Gene 2	Correlation	Gene 1	Gene 2	Correlation
HGSNAT	FKBP4	0.750182	RAB5C	KDM4C	1.258204
BIRC2	ATF7	0.75032	IFT172	ATF7	1.259284
SLC35A1	PPP1R16A	0.750382	KLHL18	ECSIT	1.267326
CCDC151	TNFAIP3	0.750729	KLHL18	STRA13	1.279118
DNA2	NPRL2	0.750994	LOC100130428	SLC25A38	1.29837
AK3	ZBTB33	0.751402	LOC100505501	CAMTA2	1.304582
RBM27	SMC5	0.751448	CLSTN1	KCTD1	1.312239
SMC5	YTHDC1	0.751684	ZNF207	FLCN	1.317042
ACVR2A	DEDD2	0.752107	FOXN3	PPP2R2D	1.322607
CDK2AP2	PTGES3	0.752432	DNMT1	HECA	1.329304
TSC22D1-AS1	SLC39A11	0.753104	SIRT4	TAF5	1.332002
TNRC6C-AS1	ZNF329	0.753265	C18orf8	IFT20	1.33813
WDR17	PIDD	0.753413	HECA	ZNF250	1.343093
STK38	ZNF248	0.753456	MYH7B	FAM195A	1.349021
PDS5B	ZNF540	0.754363	MED7	RBM14	1.349459
SOCS7	RNF8	0.754677	RBM3	RNASEH2C	1.360024
DTYMK	ZNF532	0.754816	FSD1	DPF2	1.361744
TMEM168	SOCS7	0.755641	ZNF207	SEMA6D	1.376674
AUP1	RBM3	0.755904	CYB561D1	DENND4B	1.381411
SEBOX	METTL15	0.755911	KCTD2	AASS	1.381879
CCT3	CUEDC1	0.755983	PDZD4	KCTD2	1.383608
FAM120A	CTBS	0.755989	ZNF420	NEK3	1.391076
LRRC38	LPPR2	0.756511	TSC22D1-AS1	LOC100506421	1.402054
SIMC1	MYO6	0.756983	PKD1P1	ORMDL3	1.406899
TMEM168	GAS1	0.756987	ELL2	MYO6	1.41687
C1RL	C2CD5	0.757018	C1orf132	ZDHHC9	1.419187
ACOT4	AUP1	0.757162	SAV1	2014/9/7	1.426173
SDS	RNF8	0.757936	MYRF	ACVR2A	1.453308
FAM126A	RCC2	0.758072	SPATA13	KCNJ2	1.453796
ZCCHC6	ZNF589	0.758242	ZNF302	NUDCD3	1.465218
BEST1	CLN8	0.758274	MRPL48	FZD9	1.469562
ACAD8	NUCKS1	0.758375	MRPL28	MORC2	1.477769
PAPD5	CXXC1	0.758381	PTPN11	STK36	1.4817
IL18RAP	TBC1D31	0.758395	ATP5S	MOB2	1.487831
TNRC6C-AS1	MICAL3	0.758533	BEST1	C2CD5	1.500224
ADAM11	BCO2	0.758797	EPC1	GAS1	1.502938
MMS19	SEC14L2	0.759088	COL27A1	TAF5	1.52948

Supplementary Table SII. Cont.

Gene 1	Gene 2	Correlation	Gene 1	Gene 2	Correlation
NKAPL	CREBBP	0.759119	GKAP1	CCDC101	1.547839
LMNA	LOC100127983	0.759245	LOC283588	FOXN3	1.553271
FAM73B	NAA30	0.759525	FAM217B	ZNF415	1.556326
FAM69A	LOC100133130	0.759578	EPC1	ARHGDI1A	1.561723
C5orf48	PQLC1	0.759956	KCTD1	ACTR3C	1.574056
TNRC6C-AS1	LOC100505549	0.760194	DDX27	NPRL2	1.614306
PHF15	GTF3A	0.760581	C18orf8	MED7	1.632109
SETBP1	AFTPH	0.760622	C18orf8	SAFB2	1.633042
RNF111	ATF7	0.761221	SIRT4	KRBOX1	1.657965
LOC100506238	TADA3	0.76135	C18orf8	PIDD	1.659626
ADCY8	OSBPL2	0.761413	SIRT4	RNF8	1.662612
COBLL1	LOC283075	0.761697	LOC100505679	RALGPS1	1.66622
TIMM21	IPPK	0.762089	FAM217B	KCTD1	1.670401
TMEM106C	TIGD7	0.763077	DOC2A	SETD1B	1.676328
STARD10	ADCY9	0.76313	KLHL18	SGSM3	1.679767
POLR2H	SLC5A3	0.763309	LOC441402	KCNJ2	1.679897
AIF1L	OLIG2	0.763795	AP1G2	EPC2	1.682539
FOXN3	C1orf132	0.764031	ACTR3C	P4HA1	1.686848
P2RX7	SUPV3L1	0.764145	PPP2R2D	PTK2	1.688312
LOC644656	TCHP	0.76422	IP6K1	ADCY9	1.689038
PURG	FASTKD1	0.765236	FAM217B	DPF2	1.69371
RBM4	CLEC18A	0.765423	PADI2	PSMD6-AS2	1.695561
PIDD	DDX56	0.765455	TTYH2	ULK3	1.701873
C5orf48	NMUR2	0.765575	RBM27	TARDBP	1.704827
GAS2L1	RNASEH2C	0.765748	C18orf8	GAS2L1	1.705105
IL18RAP	FAM220A	0.766044	HIF1AN	IL6ST	1.707385
IGBP1	TMEM61	0.766075	COL27A1	MRPS6	1.710505
BCAR1	CAND2	0.766247	RAB5C	ADD1	1.711493
ZCCHC6	WDR17	0.7666	SGSM3	DCAF16	1.71304
ESF1	IL6ST	0.766671	KCNJ2	LMNA	1.713644
NUDT9	COASY	0.767012	CREBBP	PAPD7	1.714383
HSD17B1	DENND4B	0.76715	P2RX7	IL1R2	1.714875
PIDD	MUS81	0.768617	PRKCSH	PURG	1.716589
TNRC6C-AS1	SORBS3	0.769464	CCT6B	DDX23	1.717658
TNFAIP3	TNFSF4	0.769476	DPF2	FBXL20	1.721841
SDR39U1	SEC14L2	0.769912	ZNF189	FCHSD2	1.72304
LPCAT1	LRRN1	0.769943	ACOT4	MMRN2	1.726174

Supplementary Table SII. Cont.

Gene 1	Gene 2	Correlation	Gene 1	Gene 2	Correlation
ZNF250	MAP3K1	0.770306	APOM	FZD9	1.733015
DOC2A	SETBP1	0.770332	STARD7	PHF15	1.741535
RRAD	C11orf83	0.770694	TMEM57	LTBP1	1.742775
B4GALT3	TAF12	0.770785	SLC47A1	ENG	1.744764
ZCCHC6	DPF2	0.771531	TRIB2	SOX2-OT	1.745733
NUDCD3	GID8	0.772773	ZNF540	NEK3	1.747847
BCAR1	NARS	0.772886	COL27A1	POLR2H	1.74833
FRAT2	NEK3	0.772918	PURG	AFTPH	1.751531
RRAD	POMT1	0.773501	CCDC101	DNAJB6	1.753618
NTM	SOCS7	0.774371	COL27A1	LOC100132352	1.754731
UBE2Q1	STARD10	0.774531	USP21	LOC100133130	1.781419
ZCCHC6	PHF21A	0.774672	PHC1	GLYR1	1.78748
KLHL18	STARD10	0.774697	TMEM168	TAF5	1.807002
RIPPLY2	AASS	0.77518	C19orf24	CSK	1.84172

Supplementary Table SIII. The interactions in gene transcription regulatory network

Common.TF	Gene 1	Gene 2
AHR	TAF5	ADAM15
AHR	RELN	AKIRIN1
AHR	EPC1	ARHGDI1A
AHR	MID1	ARHGDI1A
AHR	C11orf83	BAG6
AHR	RRAD	C11orf83
AHR	NUDT9	CDK2AP2
AHR	SOX12	CREBBP
AHR	SOCS7	FBXO34
AHR	HGSNAT	FKBP4
AHR	TINAGL1	GAS2L1
AHR	DNMT1	HECA
AHR	EPC2	HECA
AHR	SOCS7	KCNH2
AHR	ADCY8	KIT
AHR	FBXO34	LZTR1
AHR	PKD1P1	ORMDL3
AHR	CREBBP	PAPD7
AHR	STARD7	PHF15
AHR	SLITRK2	PSME4
AHR	FAM126A	RCC2
AHR	ARHGDI1A	RELN
AHR	EPC2	RELN
AHR	DOC2A	SETBP1
AHR	ZEB2	SMARCD1
AHR	THAP11	TAF5
AHR	COL27A1	TAF5
AHR	NUDT9	USP21
AP-2alphaA	FOXN3	AFTPH
AP-2alphaA	PURG	AFTPH
AP-2alphaA	RELN	AKIRIN1
AP-2alphaA	LCOR	BCL9L
AP-2alphaA	SOX12	BCL9L
AP-2alphaA	SOX12	CREBBP
AP-2alphaA	CLSTN1	FBXO34
AP-2alphaA	SOCS7	FBXO34
AP-2alphaA	KCTD1	HEXIM2
AP-2alphaA	CLSTN1	KCTD1
AP-2alphaA	FAM120A	KCTD1
AP-2alphaA	CREBBP	PAPD7
AP-2alphaA	DOC2A	SETD1B
AP-2alphaA	GPBP1	RPS3
AP-2alphaA	SMC5	YTHDC1
AP-2gamma	FOXN3	AFTPH
AP-2gamma	PURG	AFTPH
AP-2gamma	RELN	AKIRIN1
AP-2gamma	SOX12	BCL9L
AP-2gamma	LCOR	BCL9L
AP-2gamma	SOX12	CREBBP
AP-2gamma	SOCS7	FBXO34
AP-2gamma	CLSTN1	FBXO34
AP-2gamma	KCTD1	HEXIM2
AP-2gamma	SOCS7	KCNH2
AP-2gamma	FAM120A	KCTD1
AP-2gamma	CLSTN1	KCTD1
AP-2gamma	PDZD4	KCTD2
AP-2gamma	TMEM57	LTBP1
AP-2gamma	CREBBP	PAPD7
AP-2gamma	KEAP1	PHF15
AP-2gamma	ADAM11	PPP1R3E
AP-2gamma	EPC2	RELN
AP-2gamma	GPBP1	RPS3
AP-2gamma	DOC2A	SETD1B
AP-2gamma	SMC5	YTHDC1
ARNT	RELN	AKIRIN1
ARNT	MID1	ARHGDI1A
ARNT	C11orf83	BAG6
ARNT	SOX12	BCL9L
ARNT	RRAD	C11orf83
ARNT	HGSNAT	FKBP4
ARNT	EPC2	HECA
ARNT	FAM120A	KIT

Supplementary Table SIII. Cont.

Common.TF	Gene 1	Gene 2
ARNT	ADCY8	KIT
ARNT	FBXO34	LZTR1
ARNT	YTHDC1	MRPL27
ARNT	BCAR1	MRPL27
ARNT	RIC8B	MRPS6
ARNT	COL27A1	MRPS6
ARNT	SLC5A3	PAPD7
ARNT	STARD7	PHF15
ARNT	ARHGDI1A	RELN
ARNT	EPC2	RELN
ARNT	DOC2A	SETBP1
ARNT	COL27A1	SLC5A3
ARNT	FOXN3	SLC5A3
ARNT	ZEB2	SMARCD1
ARNT	TTYH2	ULK3
ATF-2	YTHDC1	CDKL2
ATF-2	AP1G2	EPC2
ATF-2	STAT3	KDM6A
ATF-2	TMEM57	LTBP1
ATF-2	EPC2	TSHZ1
ATF6	PHC1	GLYR1
C/EBPalpha	ZEB2	SMARCD1
CBFB	RBM4	CLEC18A
CBFB	HNRNPC	RBM14
CEBPA	ZEB2	SMARCD1
COUP-TF1	GPR124	PAPD4
CP1A	RBM4	CLEC18A
CP1A	HNRNPC	RBM14
CP1C	RBM4	CLEC18A
CREB1	KCTD2	AASS
CREB1	PURG	AFTPH
CREB1	FOXN3	AFTPH
CREB1	CDK2AP2	BANP
CREB1	DNAJA1	CDK2AP2
CREB1	YTHDC1	CDKL2
CREB1	LCOR	CDKN2C
CREB1	PAPD5	CXXC1

Common.TF	Gene 1	Gene 2
CREB1	FZD9	HECA
CREB1	EPC2	HECA
CREB1	PDZD4	IRS1
CREB1	FAM120A	KCTD1
CREB1	PDZD4	KCTD2
CREB1	YTHDC1	MRPL28
CREB1	PAPD4	NAT8L
CREB1	ADCY8	OSBPL2
CREB1	SLITRK2	PSME4
CREB1	PAPD5	RNF145
CREB1	COL27A1	TAF5
CREB1	EPC2	TSHZ1
CREB1	SEC24C	WDR53
CUX1	KCNJ2	LMNA
CUX1	FBXO34	LZTR1
CUX1	RIC8B	SH3D19
DAND5	RELN	AKIRIN1
DAND5	SOX12	BCL9L
DAND5	LCOR	BCL9L
DAND5	LCOR	CDKN2C
DAND5	C19orf24	CSK
DAND5	AP1G2	EPC2
DAND5	MMRN2	FAM50A
DAND5	EPC2	HECA
DAND5	SOCS7	KCNH2
DAND5	STAT3	KDM6A
DAND5	ADCY8	OSBPL2
DAND5	SLC5A3	PAPD7
DAND5	STARD7	PHF15
DAND5	SPATA13	PHF21A
DAND5	MYL12A	PPP1R14B
DAND5	SOCS7	PPP2R3A
DAND5	HNRNPC	RBM14
DAND5	EPC2	RELN
DAND5	MMRN2	SLC39A11
DAND5	KIAA0922	SLC39A11
DAND5	FOXN3	SLC5A3

Supplementary Table SIII. Cont.

Common.TF	Gene 1	Gene 2	Common.TF	Gene 1	Gene 2
DAND5	TMEM168	SOCS7	E2F1	IFT52	FOXN3
DAND5	CBFA2T2	SPATA13	E2F1	GLYR1	FUS
DAND5	CLDND1	SPATA13	E2F1	DDX23	FZD9
DAND5	UBE2H	STIP1	E2F1	PHC1	GLYR1
DAND5	TMEM205	TADA3	E2F1	SOCS7	KCNH2
DAND5	COBLL1	UNC13B	E2F1	RIC8B	MRPS6
deltaCREB	KCTD2	AASS	E2F1	SLC5A3	PAPD7
deltaCREB	FOXN3	AFTPH	E2F1	STARD7	PHF15
deltaCREB	PURG	AFTPH	E2F1	SLC5A3	SAP30L
deltaCREB	CDK2AP2	BANP	E2F1	FOXN3	SLC5A3
deltaCREB	DNAJA1	CDK2AP2	E2F1	DDX23	STARD7
deltaCREB	LCOR	CDKN2C	E2F1	IFT52	ZFY
deltaCREB	FZD9	HECA	E2F2	PHC1	GLYR1
deltaCREB	EPC2	HECA	E2F4	PHC1	GLYR1
deltaCREB	PDZD4	IRS1	E2F5	PHC1	GLYR1
deltaCREB	FAM120A	KCTD1	EGR1	LCOR	CDKN2C
deltaCREB	PDZD4	KCTD2	EGR1	ZNF189	FCHSD2
deltaCREB	PAPD4	NAT8L	EGR1	FZD9	HECA
deltaCREB	ADCY8	OSBPL2	EGR1	SOCS7	KCNH2
deltaCREB	COL27A1	TAF5	EGR1	THAP11	TAF5
E2F-3a	PHC1	GLYR1	EGR1	RBM27	TARDBP
E2F	MORC3	DDX23	EGR1	RNF111	ZNF653
E2F	CCT6B	DDX23	EGR2	SETBP1	AFTPH
E2F	IFT52	FOXN3	EGR2	LCOR	CDKN2C
E2F	GLYR1	FUS	EGR2	EPC1	LCOR
E2F	DDX23	FZD9	EGR2	THAP11	TAF5
E2F	PHC1	GLYR1	EGR3	SETBP1	AFTPH
E2F	SOCS7	KCNH2	EGR3	MORC3	CCNA2
E2F	RIC8B	MRPS6	EGR3	LCOR	CDKN2C
E2F	SLC5A3	PAPD7	EGR3	SNAP29	COA5
E2F	STARD7	PHF15	EGR3	ADCY8	OSBPL2
E2F	SLC5A3	SAP30L	EGR3	CBFA2T2	SPATA13
E2F	FOXN3	SLC5A3	EGR3	THAP11	TAF5
E2F	DDX23	STARD7	Elk-1	DMAP1	AURKAIP1
E2F	IFT52	ZFY	Elk-1	KCNH2	COLEC11
E2F1	MORC3	DDX23	Elk-1	SLC35A3	DDX27
E2F1	CCT6B	DDX23	Elk-1	AP3B1	DMTF1

Supplementary Table SIII. Cont.

Common.TF	Gene 1	Gene 2	Common.TF	Gene 1	Gene 2
Elk-1	PHC1	GLYR1	HOXA9	MID1	IRX1
Elk-1	SOCS7	KCNH2	HOXA9B	MID1	IRX1
Elk-1	ZCCHC6	KLHDC3	HSF1 (long)	USP13	MRPS6
Elk-1	YTHDC1	MRPL27	HSF2	USP13	MRPS6
Elk-1	GPR124	PAPD4	IKZF1	TARDBP	FAM126A
Elk-1	ZCCHC6	SF3B2	IRF2	RAB5C	GAS7
Elk-1	KIAA0922	SLC39A11	JUN	BCL9L	AUP1
Elk-1	PTPN11	STK36	JUN	BCAR1	CAND2
Elk-1	SEC24C	WDR53	JUN	EPHA3	DDX3Y
Elk-1	SMC5	YTHDC1	JUN	CAND2	KDM4C
EN1	FOXN3	AFTPH	JUN	ELL2	MYO6
EP300	RBM27	BRWD3	JUN	RIC8B	SH3D19
EP300	LCOR	CDKN2C	JUNB	RIC8B	SH3D19
EP300	SLC5A3	PAPD7	JUND	RIC8B	SH3D19
EP300	ZCCHC6	PHF21A	LMO2	LCOR	BCL9L
EP300	MMRN2	SLC39A11	LMO2	SLC30A3	SLC25A38
EPAS1	TINAGL1	LOC644656	MAX	KCTD1	HEXIM2
ER-alpha	TINAGL1	GAS2L1	MAX	STAT3	KDM6A
ESR1	TINAGL1	GAS2L1	MAX	ADCY8	KIT
FOS	RIC8B	SH3D19	MAX	SLC5A3	PAPD7
FOSB	RIC8B	SH3D19	MAX	IZUMO4	UMOD
FOXD1	KLHL18	STARD10	Max1	HNRNPH3	CDKN2C
FOXO1	SOX12	CREBBP	MECOM	RIC8B	SH3D19
FOXO3	PELI2	FAM177A1	MEF2A	TMEM57	LTBP1
FOXO3B	PELI2	FAM177A1	Meis-1	SGK2	ATF7
FOXO4	NOL11	HECA	Meis-1	MID1	IRX1
GATA1	ADAM11	BCO2	Meis-1	LOC728743	KPTN
GATA1	DPF2	FBXL20	MIA3	RELN	AKIRIN1
GATA1	ZBTB22	HAGH	MIA3	MID1	ARHGDI2A
GATA1	ZEB2	SMARCD1	MIA3	C11orf83	BAG6
GATA1	TRIB2	SOX2-OT	MIA3	SOX12	BCL9L
HLF	TINAGL1	LOC644656	MIA3	RRAD	C11orf83
HMX3	FAM120A	KCTD1	MIA3	HGSNAT	FKBP4
HMX3	PAPD5	RNF145	MIA3	EPC2	HECA
HNF-4alpha2	GPR124	PAPD4	MIA3	FAM120A	KIT
HOXA3	AP1G2	EPC2	MIA3	ADCY8	KIT
HOXA3	EPC2	TSHZ1	MIA3	FBXO34	LZTR1

Supplementary Table SIII. Cont.

Common.TF	Gene 1	Gene 2	Common.TF	Gene 1	Gene 2
MIA3	YTHDC1	MRPL27	MYCN	MID1	IRX1
MIA3	BCAR1	MRPL27	MYCN	AUP1	RBM3
MIA3	RIC8B	MRPS6	MYOD1	MRPL34	ATF7
MIA3	COL27A1	MRPS6	MYOD1	SOX12	CREBBP
MIA3	SLC5A3	PAPD7	MYOD1	SOCS7	FBXO34
MIA3	STARD7	PHF15	MYOD1	SOCS7	KCNH2
MIA3	ARHGDI1A	RELN	MYOD1	ADAM11	PPP1R3E
MIA3	EPC2	RELN	MZF1	SOX12	BCL9L
MIA3	DOC2A	SETBP1	MZF1	AP1G2	EPC2
MIA3	COL27A1	SLC5A3	MZF1	PDZD4	IRS1
MIA3	FOXN3	SLC5A3	MZF1	MID1	IRX1
MIA3	ZEB2	SMARCD1	MZF1	EPC2	RELN
MIA3	TTYH2	ULK3	MZF1	AK3	SHISA4
MIF-1	SGK2	ATF7	MZF1	UBE2H	STIP1
MIF-1	CBFA2T2	LOC100127983	MZF1	COL27A1	TAF5
MYB	SOCS7	FBXO34	MZF1	EPC2	TSHZ1
MYB	ZCCHC6	KLHDC3	NF-kappaB1	SOX12	BCL9L
MYB	C18orf8	MED7	NF-kappaB1	RBM27	BRWD3
MYB	SEBOX	METTL15	NF-kappaB1	RAB5C	GAS7
MYB	CCT3	RPS3	NF-kappaB1	BCL9L	SAP30L
MYB	NTM	SOCS7	NF-kappaB1	TAF5	SAP30L
MYB	UBE2H	STIP1	NF-kappaB1	UBE2H	STIP1
MYB	COL27A1	TAF5	NF-kappaB1	COL27A1	TAF5
MYB	C18orf8	THAP2	NF-Y	RBM4	CLEC18A
MYC	BCL9L	AUP1	NF-Y	HNRNPC	RBM14
MYC	HNRNPH3	CDKN2C	NF1	PHC1	GLYR1
MYC	HNRNPH3	CRIM1	NF1	PDZD4	IRS1
MYC	IFT20	GKAP1	NF1	SOCS7	KCNH2
MYC	KCTD1	HEXIM2	NF1	KCNJ2	LMNA
MYC	STAT3	KDM6A	NF1	RIC8B	SH3D19
MYC	ADCY8	KIT	NF1	FBXL20	SPR
MYC	SLC5A3	PAPD7	NF1	COL27A1	TAF5
MYC	ZEB2	RIPPLY2	NFE2L1	STAT3	KDM6A
MYC	IZUMO4	UMOD	NFE2L1	ZCCHC6	LMNA
MYC	ABCC10	ZNF653	NFKB1	BCL9L	SAP30L
MYCN	ACOT4	AUP1	NFKB1	UBE2H	STIP1
MYCN	KCTD1	HEXIM2	NFYA	RBM4	CLEC18A

Supplementary Table SIII. Cont.

Common.TF	Gene 1	Gene 2	Common.TF	Gene 1	Gene 2
NFYA	HNRNPC	RBM14	PAX5	PDZD4	IRS1
NFYB	RBM4	CLEC18A	PAX5	SOCS7	KCNH2
NFYB	HNRNPC	RBM14	PAX5	FAM120A	KCTD1
NFYC	RBM4	CLEC18A	PAX5	CLSTN1	KCTD1
NKX2-5	RNF111	ATF7	PAX5	TMEM120A	KDM4C
NRSF form 1	RAB5C	ADD1	PAX5	FAM120A	KIT
NRSF form 1	POLR2H	PHF15	PAX5	ADCY8	KIT
NRSF form 2	RAB5C	ADD1	PAX5	TMEM57	LTBP1
NRSF form 2	POLR2H	PHF15	PAX5	ICAM1	LTBP1
PATZ1	TAF5	ADAM15	PAX5	RBM27	NAA15
PATZ1	RELN	AKIRIN1	PAX5	CAD	PSME4
PATZ1	LCOR	BCL9L	PAX5	CDK2AP2	PTGES3
PATZ1	SOCS7	KCNH2	PAX5	COL27A1	TAF5
PATZ1	STAT3	KDM6A	PAX5	RBM27	TARDBP
PATZ1	COL27A1	MRPS6	PAX5	EPC2	TSHZ1
PATZ1	SLC5A3	PAPD7	PAX5	ZCCHC8	TSHZ1
PATZ1	STARD7	PHF15	PAX5	ABCC10	ZNF653
PATZ1	MYL12A	PPP1R14B	PAX6	SOX12	CREBBP
PATZ1	SOCS7	PPP2R3A	PELP1	FAM120A	KCTD1
PATZ1	FOXN3	SLC5A3	PELP1	PAPD5	RNF145
PATZ1	COL27A1	SLC5A3	PLAU	YTHDC1	CDKL2
PATZ1	GABPB2	SMARCD1	PLAU	STAT3	KDM6A
PATZ1	NTM	SOCS7	PLAU	ELL2	MYO6
PATZ1	UBE2H	STIP1	PLAU	EPC2	TSHZ1
PATZ1	COL27A1	TAF5	PLAU	AK3	ZBTB33
PATZ1	ABCC10	ZNF653	POU2F1	CBFA2T2	HNRNPH3
Pax-2	FZD9	HECA	POU2F1	MID1	IRX1
PAX3	AK3	SHISA4	POU2F1	SRP68	POLN
PAX5	PURG	AFTPH	POU2F1	ZCCHC6	WDR17
PAX5	SETBP1	AFTPH	POU3F2 (N-Oct-5a)	FOXN3	AFTPH
PAX5	FOXN3	AFTPH	POU3F2 (N-Oct-5b)	FOXN3	AFTPH
PAX5	SOX12	BCL9L	POU3F2	FOXN3	AFTPH
PAX5	LCOR	BCL9L	POU3F2	PURG	AFTPH
PAX5	DNAJA1	CDK2AP2	POU3F2	FSD1	P4HA1
PAX5	NUDT9	CDK2AP2	PPAR-gamma1	MRPL28	CCNA2
PAX5	LCOR	CDKN2C	PPAR-gamma1	YTHDC1	MRPL28
PAX5	EPC2	HECA	PPAR-gamma1	RIC8B	SH3D19

Supplementary Table SIII. Cont.

Common.TF	Gene 1	Gene 2	Common.TF	Gene 1	Gene 2
PPAR-gamma2	MRPL28	CCNA2	RREB1	CLSTN1	KCTD1
PPAR-gamma2	YTHDC1	MRPL28	SOX9	KCTD1	HEXIM2
PPAR-gamma2	RIC8B	SH3D19	SP1	RELN	AKIRIN1
PSG1	RELN	AKIRIN1	SP1	LCOR	BCL9L
PSG1	LCOR	BCL9L	SP1	SOX12	BCL9L
PSG1	SOX12	BCL9L	SP1	LCOR	CDKN2C
PSG1	LCOR	CDKN2C	SP1	C19orf24	CSK
PSG1	C19orf24	CSK	SP1	AP1G2	EPC2
PSG1	AP1G2	EPC2	SP1	MMRN2	FAM50A
PSG1	MMRN2	FAM50A	SP1	EPC2	HECA
PSG1	EPC2	HECA	SP1	SOCS7	KCNH2
PSG1	SOCS7	KCNH2	SP1	STAT3	KDM6A
PSG1	STAT3	KDM6A	SP1	ADCY8	OSBPL2
PSG1	ADCY8	OSBPL2	SP1	SLC5A3	PAPD7
PSG1	SLC5A3	PAPD7	SP1	STARD7	PHF15
PSG1	STARD7	PHF15	SP1	SPATA13	PHF21A
PSG1	SPATA13	PHF21A	SP1	MYL12A	PPP1R14B
PSG1	MYL12A	PPP1R14B	SP1	SOCS7	PPP2R3A
PSG1	SOCS7	PPP2R3A	SP1	HNRNPC	RBM14
PSG1	HNRNPC	RBM14	SP1	EPC2	RELN
PSG1	EPC2	RELN	SP1	KIAA0922	SLC39A11
PSG1	KIAA0922	SLC39A11	SP1	MMRN2	SLC39A11
PSG1	MMRN2	SLC39A11	SP1	FOXN3	SLC5A3
PSG1	FOXN3	SLC5A3	SP1	TMEM168	SOCS7
PSG1	TMEM168	SOCS7	SP1	CBFA2T2	SPATA13
PSG1	CLDND1	SPATA13	SP1	CLDND1	SPATA13
PSG1	CBFA2T2	SPATA13	SP1	UBE2H	STIP1
PSG1	UBE2H	STIP1	SP1	TMEM205	TADA3
PSG1	TMEM205	TADA3	SP1	COBLL1	UNC13B
PSG1	COBLL1	UNC13B	SPZ1	FOXN3	AFTPH
PTK7	KCNH2	COLEC11	SPZ1	PURG	AFTPH
PTK7	MID1	IRX1	SPZ1	LOC284023	ARHGDI1A
RELA	ZCCHC8	TSHZ1	SPZ1	LCOR	CDKN2C
RFX1	SLC35A3	EPHA3	SPZ1	ZNF189	FCHSD2
RFX1	RAB5C	GAS7	SPZ1	ZBTB22	HAGH
RFX1	PDZD4	IRS1	SPZ1	STAT3	KDM6A
RFX1	STAT3	P4HA1	SPZ1	GABPB2	SMARCD1

Supplementary Table SIII. Cont.

Common.TF	Gene 1	Gene 2	Common.TF	Gene 1	Gene 2
SREBF1	HNRNPH3	CDKN2C	TFAP4	ADAM11	PPP1R3E
SREBF1	FAM120A	KIT	TFAP4	SLITRK2	PSME4
SREBF1	ADAM11	SLC25A1	TFAP4	SLC5A3	SAP30L
SREBP-1a	HNRNPH3	CDKN2C	TFAP4	TAF5	SAP30L
SREBP-1a	FAM120A	KIT	TFAP4	FOXN3	SLC5A3
SREBP-1a	ADAM11	SLC25A1	TFAP4	COL27A1	SLC5A3
SREBP-1b	HNRNPH3	CDKN2C	TFAP4	COL27A1	TAF5
SREBP-1b	FAM120A	KIT	TFCP2	KCNJ2	LMNA
SREBP-1b	ADAM11	SLC25A1	TLX2	FAM120A	KCTD1
SRF	KCNH2	COLEC11	TLX2	FOXN3	SLC5A3
SRF	MID1	IRX1	TP53	LCOR	BCL9L
STAT1	MRPL34	ATF7	TP53	LCOR	CDKN2C
STAT1	DNAJA1	CDK2AP2	TP53	AP1G2	EPC2
STAT1	TINAGL1	LOC644656	TP53	APOM	FZD9
STAT1	RBM27	NAA15	TP53	PDZD4	IRS1
STAT1alpha	DNAJA1	CDK2AP2	TP53	PGBD5	KCNH2
STAT1alpha	TINAGL1	LOC644656	TP53	FAM120A	KCTD1
STAT1alpha	RBM27	NAA15	TP53	PDZD4	KCTD2
STAT1beta	DNAJA1	CDK2AP2	TP53	EPC1	LCOR
STAT1beta	TINAGL1	LOC644656	TP53	TINAGL1	LOC644656
STAT1beta	RBM27	NAA15	TP53	ICAM1	LTBP1
STAT3	MRPL34	ATF7	TP53	LOC644656	TCHP
STAT3	CCT6B	DDX23	USF1	LOC284023	ARHGDI1A
STAT3	SLC35A3	EPHA3	USF1	IP6K1	CLIC4
STAT3	DPF2	FBXL20	USF1	BCAR1	MRPL27
STAT3	TINAGL1	LOC644656	USF1	FAM73B	NAA30
STAT3	TMEM57	LTBP1	USF2	LOC284023	ARHGDI1A
STAT5A	MID1	IRX1	USF2	IP6K1	CLIC4
STAT5B	MRPL34	ATF7	YY1	TAF5	ADAM15
STAT6	RBM27	NAA15	YY1	BCAR1	CAND2
STAT6	AUP1	RBM3	YY1	KCNJ2	LMNA
TCF3	SOX12	CREBBP	YY1	TINAGL1	LOC644656
TCF3	SOCS7	FBXO34	YY1	ZC3H11A	SAFB2
TCF3	SOCS7	KCNH2	YY1	DOC2A	SETBP1
TCF3	ADCY8	KIT	YY1	THAP11	TAF5
TFAP4	TMEM57	LTBP1	YY1	HNRNPC	ZC3H11A
TFAP4	COL27A1	MRPS6	ZEB1	CYB561D1	DENND4B

Supplementary Table SIII. Cont.

Common.TF	Gene 1	Gene 2	Common.TF	Gene 1	Gene 2
ZEB1	MID1	IRX1	ZIC3	EPC2	HECA
ZEB1	SPATA13	KCNJ2	ZIC3	DNMT1	HECA
ZEB1	PDZD4	KCTD2	ZSCAN1	SOX12	BCL9L
ZEB1	EPC1	LCOR	ZSCAN1	AP1G2	EPC2
ZEB1	KEAP1	PHF15	ZSCAN1	PDZD4	IRS1
ZIC1	AP3B1	DMTF1	ZSCAN1	MID1	IRX1
ZIC1	AP1G2	EPC2	ZSCAN1	EPC2	RELN
ZIC1	DNMT1	HECA	ZSCAN1	AK3	SHISA4
ZIC1	EPC2	HECA	ZSCAN1	UBE2H	STIP1
ZIC1	FAM126A	RCC2	ZSCAN1	COL27A1	TAF5
ZIC2	AP3B1	DMTF1	ZSCAN1	EPC2	TSHZ1