

Significant Latent Factors – Marginals (bold/italic) and Interactions																														
Genes Associated with Significant Latent Factors	COL3A1	GPRC5A	MRC1	TMSB10	HBA2	APOLD1	PTPN13	MMP2	MTCO1P12	ITGA1	PGD	RGS5	X.2395	ADGRL2	DES	APOL6	CFH	SCG2	WARS1	SLC38A2	GASK1A	MYH11	SAMD9L	UNC13B	MACF1	LCP1				
	COL1A1	LMO7	TNFSF13	MYL6	HBA1	PTPRB	PHLDA1	MECOM	MMP14	MTATP6P1	GUCY1A2	TALDO1	ANTXR1	RNA5.8SP6	HECW2	ACTG2	DTX3L	CSF3R	SERPINF1	CHGA	LAMB1	NMNAT3	CNN1	OAS2	MLPH	DST	AQP9			
	COL1A2	CD55	GRN	CDC42	HBB	ARHGAP29	SLC19A2	NKX2.1	IL1R1	ARHGEF2	SEMA5A	BRI3	FILIP1L	LARP4B	ARHGEF12	MYLK	YWHAB	DYSF	FBXO32	SCN3A	IL32	PDGFRA	FAM241A	SYNPO2	PARP14	FREM2	CALD1	PTPRC		
	COL5A1	RAB11FIP1	SLC31A1	MYL12B	ST3GAL5	MGAT4A	ASAP1	MYO5C	LOX	LRIG1	PEAK1	TKT	IGFBP7	ACTG1	PCDHGC3	HTT	YWHAH	CR1	CLU	COTL1	LAMC1	MAB21L3	TPM2	EIF2AK2	PLXNA2	TIMP2	ITGB2			
	COL5A2	ARAP2	CYB5R3	SAP18	CFI	ARHGAP31	AREG	KIAA0319L	MAP4K4	MT.ATP8	ZDHHC3	ATP6V0D1	ROBO1	TNS3	SPOCK2	GATAD2A	CNDP2	SELL	MGP	NUCKS1	TAP1	PIGN	EPAS1	DAB2	ABI3BP	LPCAT1	PLXDC2	FPR1		
	SH3PXD2A	PARD6B	FCGR2A	RHOC	ZMAT3	NOTCH1	ADAMTS1	LGALS3BP	EEF2	MTND1P23	SDC3	FTH1	S100A8	ITGA9	ADGRG6	DUSP3	LYST	FLOT2	ZHX3	ZNF292	GBP1	DOCK9	RPAP2	SLC6A4	ITPR1	NUDT3	ITPR3	DDR2	TLR2	
	COL6A3	CGN	CTSC	SERF2	LRRK2	ZEB1	OGFRL1	SMIM14	PDGFRB	NOTCH2NLA	PRICKLE2	ATP6V0E1	S100A12	ENAH	ACADSB	ANK3	RB1	PIM1	COL16A1	KDM5B	STAT1	PTPRG	NOPCHAP1	SLCO2A1	SARAF	TNS3	ARRB1	FAT4	PLEK	
	SH3BGRL2	LRRFIP1	MGAT5	NRAS	NBL1	ANO6	PRDM1	ARSD	KDELR1	ADA2	C5orf24	SQOR	CD177	SH3PXD2A	CEPB	ZC3H7B	SDC2	LARP1	WDFY3	THY1	MARCHF6	GBP2	STON1	TRNT1	VIPR1	NIBAN1	SLC8A1	FLNB	UACA	SIRPA
	COL16A1	OCLN	AP1B1	LGALS1	ROS1	ATP13A4	CCND2	PTPRK	PALLD	LSM14A	SMURF2	ALDOA	USP15	NBL1	BCL6	NCKAP1	MYO6	SLFN11	TLN1	ENAH	PARP1	LUZP1	JAK1	HECTD4	ACVRL1	SCARA5	GNPTAB	PATJ	FMOD	CD53
	CKAP4	SCEL	LRP2	CLIC1	FKBP8	EPB41L5	NUDT4	NUMA1	EMILIN1	TNS3	PTAR1	FTL	VNN2	NRP2	BRI3	TNFAIP1	RBM47	RDX	CDC42SE1	DPYSL3	PFKFB2	PARP9	ANO6	BLOC1S6	SLC9A3R2	PCNX1	KLF9	CYP4B1	MSRB3	NCF2
	FCN3	NUPR1	FCN3	FCN3	FCN3	KAT6A	FCN3	FCN1	FCN3	HMGCS1	HMGCS1	FCN3	CNN2	VNN2	FCN3	VNN2	FCN3	TMEM165	HMGCS1	FCN3	NPR3	FCN3	NPR3	FCN3	HMGCS1	FCN3	FCN3	FCN3		
	HMGCS1	ANXA3	NPR3	HMGCS1	HMGCS1	HMGCS1	SLC39A8	RTKN2	HMGCS1	VNN2	VNN2	HMGCS1	ETS2	NPR3	HMGCS1	S100A4	VNN2	GRK5	HMGCS1	ANXA3	VNN2	NUPR1	S100A4	VNN2	HMGCS1	ANXA3	VNN2	NUPR1	ANXA3	
	VNN2	MNDA	S100A4	VNN2	VNN2	EFNB2	MSMO1	CLDN5	EFNB2	EFNB2	NUPR1	SLC39A8	MSMO1	VNN2	PRX	EFNB2	HMGCS1	MSMO1	MSMO1	VNN2	PRX	EFNB2	IDI1	NPR3	GIMAP8	MSMO1	MNDA	CALCRL	EHD1	
	EFNB2	MGAM	MSMO1	NPR3	PRX	FCN1	MNDA	CD14	S100A4	SLC39A8	S100A4	NPR3	PRKCD	MNDA	EFNB2	SLC39A8	NPR3	ANXA3	SLC39A8	PRX	CD36	ANXA3	FOXF1	ANXA3	FCN1	TNFSF10	TNFSF10	SPI1		
	PRX	PALM2AKAP2	ANXA3	S100A4	NPR3	MGAM	FCN1	RGCC	MNDA	NPR3	MSMO1	NUPR1	FCN3	FCN1	PRX	MGAM	NUPR1	SLC39A8	PREX1	INSIG1	EFNB2	INSIG1	MGAM	RTKN2	FABP5	FCN1				
	SLC39A8	PAPSS2	CD36	ANXA3	NUPR1	VSIR	MGAM	PCDH17	MGAM	MSMO1	INSIG1	S100A4	HMGCS1	VSIR	SLC39A8	ANXA3	S100A4	CALCRL	EPB41L5	MNDA	PRX	MNDA	TNFSF10	SPOCK2	HHIP	PIK3AP1				
	NPR3	PEBP4	MCEMP1	INSIG1	S100A4	CALCRL	VSIR	HOPX	PAPSS2	INSIG1	MNDA	MSMO1	EFNB2	CALCRL	NPR3	MNDA	MSMO1	CHI3L2	NPR3	CALCRL	MSMO1	NUPR1	CLDN5	MGAM	SLC39A8	FCN1	IDI1	BRI3	FASN	MGAM
	NUPR1	CD14	BRI3	VSIR	MSMO1	PALM2AKAP2	TNFSF10	HMOX1	MCEMP1	FCN1	ANXA3	PRX	TNFSF10	NUPR1	FCN1	MNDA	RTKN2	S100A4	PALM2AKAP2	ANXA3	MSMO1	IFIT3	IDI1	NUPR1	CALCRL	PAPSS2	EDNRB	PLBD1	HCK	
	S100A4	RALA	HHIP	TNFSF10	INSIG1	PAPSS2	CHI3L2	DPYD	FABP5	MGAM	IDI1	INSIG1	SLC39A8	RTKN2	S100A4	MGAM	BRI3	MSMO1	RTKN2	CD52	PAPSS2	RTKN2	IL17RA	LYZ	FGR					
	MSMO1	SEMA3G	GBP4	PALM2AKAP2	MNDA	CD36	RTKN2	ARHGEF2	CD14	FGR	RTKN2	MNDA	NPR3	EPB41L5	MSMO1	ESAM	SPOCK2	FCN1	HMOX1	EPB41L5	MGAM	MME	ANXA3	CHI3L2	EPB41L5	GBP4	KLF2	VSIR		
73 Significant Latent Factor																														
3	6	9	10	12	25	36	42	47	52	57	66	68	69	73	80	81	93	102	105	118	133	140	146	150	152	154	156	161		