

Significant Latent Factors – Marginals (bold/italic) and Interactions																																		
Genes Associated with Significant Latent Factors	COL3A1	GPRC5A	TMSB10	HBA2	MT.CO1	HLA.B	RNF213	PTPRB	TMEM100	WDR74	OLR1	IGFBP4	ACP5	PGD	RGS5	X.2395	WIF1	DES	CFH	MUC5AC	SCG2	IGLV2.11	TSPAN1	WARS1	GASK1A	FADS1	MYH11	MACF1	LCP1					
	COL1A1	LMO7	MYL6	HBA1	MT.ND4	HLA.C	STAT2	ARHGAP29	SMAD6	ZNF354B	SPN	FAT1	CYP27A1	TALDO1	ANTXR1	RNA5.8SP6	ETV5	ACTG2	GPX3	IER2	STAB1	DTX3L	CSF3R	ABC13	LAP3	NNMAT3	FDPS	CNN1	DST	AQP9				
	COL1A2	CD55	MYL12B	HBB	MT.CO3	SP100	MYO9B	CELF2	SEMA6A	ELOVL5	UBASH3B	IGF1	PRDX1	BRI3	FILIP1L	PPP2R1A	ATXN1	RAB8B	FBXO32	PLTP	SCN3A	MYO9A	CHG4	CHGA	IGLV2.8	ABCA13	ACSS2	IGFBP3	CALD1	PTPRC				
	COL5A1	RAB11FIP1	CLIC1	NHSL1	MT.ND5	HSDL2	EGFR	CD93	SYNGR2	JOSD1	MAN2A1	PTGFRN	VSIG4	TANC1	S100A9	IGFBP7	PDCD6IP	DSTN	DPY19L1	RICTOR	ANXA2	BAZ2A	FAM20B	CR1	MGP	MEF2D	PROM1	MAB21L3	DOCK5	ROBO1	TIMP2	ITGB2		
	COL5A2	ARAP2	TMSB4X	CRK	MT.CYB	NR3C1	CTNNB1	UBA2	RCN1	WASF2	ATXN1	PSD3	ADH5	ZNFX1	S100A8	COBL1	IGF2R	APBB2	CERT1	LYST	SOS1	DNM2	PARP1	PTPN12	PLEKHS1	TAP1	PIGN	STX12	PPP4R2	PLXDC2	FPR1			
	QARS1	PAPSS2	LARP1	HECA	MT.ATP6	CPT1A	NCOR2	SPATS2L	PLA2G2A	ARHGAP21	PRKD3	GLUD1	MAFB	CD63	S100A12	RNF19A	LARP4B	TRIM8	HTT	ARSD	CLU	ERGIC1	MARCHF6	FNDC3B	RICKTOR	ETS2	SPRED1	SLK	RPAP2	BHLHE40	UBA1	DDR2	TLR2	
	PTPN14	HACD2	GOLGA4	DENND4C	MT.CO2	YPEL5	EIF2AK2	BACH1	IMPDH2	LPIN2	CRK	AFF1	S100A11	LARP4B	CD177	GPC4	LPIN2	CACUL1	EMP1	RDX	PDE4DIP	PURB	SLK	DIAPH2	ACOX1	NONO	GOLIM4	TMED5	YES1	NOPCHAP1	CALCOCO1	SP100	FAT4	PLEK
	NUMB	IGSF10	PANK3	ARID5B	MT.ND4L	AP2M1	SCARB2	IL13RA1	OCLN	LRPAP1	CNN3	SPARC	SKAP2	KMT2D	WASL	NRP2	HNRNPf	SCARB2	CIRBP	IFNGR1	PMP22	HNRRNPf	CAVIN1	LTBP2	ATP2A2	TRNT1	SCARB2	SH3BGRL2	ATP2A5	UACA	SIRPA			
	CERT1	AGFG1	SKP1	ZFP36L2	ITM2B	FAM20B	IFI16	IFNGR1	ARL5A	CDS2	FGD4	CD93	ATP6V1A	CSNK1D	PICALM	C4orf3	SRSF3	RAB11A	EWSR1	GTF2IP4	CDC42SE1	ZFAND5	GABARAP	KLC1	RO60	PI15	NIBAN2	MTND2P28	CUL4B	RESF1	HM13	FMOD	CD53	
	GNG12	IGF2R	CELF1	SERP1	SH3PXD2A	RDX	COBLL1	HIPK2	TPI1	MYO5A	DCN	CHSY1	GNG12	CD151	TNPO1	PP1CB	IFNAR1	SH3BGRL2	NOTCH2	MLXIP	PPEN1	CD151	TYRP1	IFNAR1	INSR	CAMSAP2	SDCBP	SPCS3	MARCO	BAZ2B	MAGT1	PRKD3	MSRB3	NCF2
	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	NOTCH2	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3	FCN3		
	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	GPI	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1	HMGCS1		
	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	ACOX1	VNN2	VNN2	VNN2	HMGCS1	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2	VNN2		
	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2	EFNB2			
	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX	PRX			
	SLC39A8	SLC39A8	SLC39A8	SLC39A8	NPR3	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	VNN2	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8	SLC39A8			
	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	EFNB2	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3	NPR3			
	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	S100A4	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	PRX	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	NUPR1	S100A4	NUPR1	NUPR1	NUPR1			
	S100A4	MSMO1	S100A4	S100A4	MSMO1	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	NUPR1	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4	S100A4		
	MSMO1	ANXA3	MSMO1	MSMO1	ANXA3	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	NPR3	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1	MSMO1		
Significant Latent Factor																																		
3	6	10	12	16	21	22	25	37	38	39	49	60	62	66	68	69	73	77	81	87	88	92	93	102	105	114	126	127	133	140	145	150	156	161