

| Significant Latent Factors – Marginal (Solid/italic) and Interactions |  | COL3A1 | GPRC5A    | TMSB10 | HBA2     | SELENOP | ATP1B1  | MT.CO1   | HLA.B  | RNF213  | PTPRB    | CXCL8    | TMEM100 | WDR74    | OLR1    | MTCO1P12 | HLA.DQA1 | IGFBP4 | X.2395  | PGD       | CFH    | DES     | JUN    | F13A1  | ACP5    | RGS5    | WIF1     | APOL6   | SCG2    | KIT       | IGLV2.11 | MYH11   | CEMIP2  | MACF1  | LCP1  | ELN   |       |      |
|---|--|--------|-----------|--------|----------|---------|---------|----------|--------|---------|----------|----------|---------|----------|---------|----------|----------|--------|---------|-----------|--------|---------|--------|--------|---------|---------|----------|---------|---------|-----------|----------|---------|---------|--------|-------|-------|-------|------|
| Significant Latent Factors  |  | COL1A1 | LM07      | MYL6   | HBA1     | SLC40A1 | CTSE    | MT.ND4   | HLA.C  | STAT2   | ARHGAP29 | IL1B     | SMAD6   | ZNF354B  | SPN     | MTATP6P1 | HLA.DQB1 | FAT1   | CYP27A1 | RNA5.8SP6 | TALDO1 | ETV5    | ACTG2  | STAB1  | DTX3L   | GPX3    | SERPINF1 | IER2    | MSMB    | CHGA      | LAP3     | NMNAT3  | FDP5    | AQP9   | DMD   |       |       |      |
| Significant Latent Factors  |  | COL1A2 | CD55      | MYL12B | HBB      | EEF2    | ALDH1A3 | MT.CO3   | SP100  | MYO9B   | CELF2    | SERPINB2 | SEMA6A  | ELOVL5   | BRI3    | ERNL     | LGALS8   | IGF1   | PRDX1   | PPP2R1A   | FBXO32 | ATXN1   | RAB8B  | CP     | CHST9   | FAM241A | ACSS2    | PHACTR1 | CALD1   | PTPRC     | PKD1     |         |         |        |       |       |       |      |
| Significant Latent Factors  |  | COL5A1 | RAB11FIP1 | CLIC1  | NHS1     | CCNG1   | ASS1    | MT.ND5   | HSDL2  | EGFR    | FKBP1A   | SYNGR2   | JOSD1   | MAN2A1   | KDM5C   | CD93     | PTGFRN   | VSIG4  | PDCD6IP | SP100     | TANCA1 | DSTN    | WFDC2  | ROBO1  | MEF2D   | FAM20B  | COLEC12  | DOK5    | ITGB2   | KALRN     |          |         |         |        |       |       |       |      |
| Significant Latent Factors  |  | COL5A2 | ARAP2     | TMSB4X | CRK      | MYH9    | HIPK2   | MT.CYB   | NR3C1  | CTNNB1  | UBA2     | DNM2     | RCN1    | WASF2    | ATXN1   | UBA1     | AGPAT3   | PSD3   | COBLL1  | IGF2R     | APBB2  | CERT1   | ADH5   | ACAP2  | ZHX3    | PARP1   | STX12    | PTPN12  | FPR1    | TNRC18    |          |         |         |        |       |       |       |      |
| Significant Latent Factors  |  | QARS1  | PAPSS2    | LARP1  | HECA     | NOMO2   | ATL2    | MT.ATP6  | CPT1A  | NCOR2   | SPATS2L  | OTULINL  | PLA2G2A | ARHGAP21 | PRKD3   | PTGES3   | CMIP     | GLUD1  | MAFB    | RNF19A    | LARP4B | TRIM8   | HTT    | VPS41  | RICTOR  | ERGIC1  | SLK      | RPAP2   | BHLHE40 | DDR2      | TLR2     | TPM2    |         |        |       |       |       |      |
| Significant Latent Factors  |  | PTPN14 | HACD2     | GOLGA4 | DENNND4C | LAPTM4A | PEAK1   | MT.CO2   | YEL5   | EIF2AK2 | BACH1    | GPC4     | IMPDH2  | LPIN2    | CRK     | SRSF5    | CD44     | AFF1   | S100A11 | LARP4B    | GPC4   | LPIN2   | CACUL1 | EMP1   | SLK     | RDX     | GNG12    | NONO    | TMED5   | NOPOCHAP1 | ADGRG6   | FAT4    | PLEK    | CNOT8  |       |       |       |      |
| Significant Latent Factors  |  | NUMB   | IGSF10    | PANK3  | ARID5B   | HPGD    | MT.ND4L | AP2M1    | SCARB2 | IL13RA1 | ANXA5    | OCLN     | LRPAP1  | CNN3     | TSC22D1 | CAST     | SPARC    | SKAP2  | WASL    | HNRNPf    | IFNGR1 | LTBP2   | SCARB2 | CIRBP  | ARID5B  | PMP22   | ATP2A2   | NUCKS1  | ATN1    | SCARB2    | SH3BGRL2 | TRNT1   | TMBM45A | DNAJB6 | UACA  | SIRPA | EIF3C |      |
| Significant Latent Factors  |  | CERT1  | AGFG1     | SKP1   | ZFP36L2  | CERT1   | CAPN2   | ITM2B    | FAM20B | IFI16   | IFNGR1   | ELOVL5   | ARL5A   | CDS2     | KAT6A   | TACC1    | CD93     | PICALM | SRSF3   | RAB11A    | EMCN   | GTF2IP4 | EMSR1  | PI5K1A | ATP6V1A | CSNK1D  | MEF2D    | PI15    | NIBAN2  | HM13      | SP100    | CD53    | DNM2    | CD40   |       |       |       |      |
| Significant Latent Factors  |  | GNG12  | IGF2R     | CELF1  | SERPI    | MAN1A1  | TLE3    | SH3PXD2A | RDX    | COBL1   | SBDS     | TP1I     | MYO5A   | DCN      | VGLL3   | CHSY1    | PP1CB    | CD151  | CYB5R3  | IFNAR1    | LITAF  | NOTCH2  | PRKD3  | MSRB3  | NCF2    | ZBTB21  | MSRB3    | PRKD3   | CD40    | IL4R      | BAZ2B    | CAMSAP2 | SPCS3   | MARCO  | BAZ2B | SPC53 | CD40L | CD40 |