**Supplementary able 1. Common up or down genes list**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Up regulated genes (30) | Down regulated genes (144) | | | | |
| *C1QTNF6* | *ABCA3* | *CDKN2C* | *HCG26* | *NSUN7* | *SUSD4* |
| *CALU* | *ALG1L* | *CLIC2* | *HESX1* | *NUPR1* | *SYCE2* |
| *CDK6* | *AMICA1* | *CLIC6* | *HLF* | *OSTalpha* | *SYCP2* |
| *FAM126A* | *ANKRD24* | *CMAH* | *HPCA* | *OXER1* | *SYNGR1* |
| *FKBP14* | *ANKRD34B* | *CNTD1* | *HSH2D* | *PATL2* | *SYNGR3* |
| *FSCN1* | *APOBEC3B* | *CORT* | *IDO2* | *PBX4* | *TAF7L* |
| *HIF1A* | *APOBEC3D* | *CST7* | *IL12A* | *PCP2* | *TBC1D10C* |
| *HOXA1* | *APOBEC3H* | *CXCR2P1* | *IL34* | *PLAC8* | *TCP11* |
| *ITGA5* | *ARHGAP15* | *CXCR3* | *ISL1* | *PPFIBP2* | *TJP3* |
| *ITGB1* | *ASCL2* | *CYP4F12* | *LAG3* | *PPIL6* | *TLE2* |
| *KIFC3* | *BCL11A* | *CYP4X1* | *LAMB2L* | *PRR22* | *TMC8* |
| *KIRREL* | *BDNFOS* | *DBP* | *LCK* | *PSTPIP1* | *TMEM80* |
| *KLF7* | *BZRAP1* | *DHDH* | *LDHC* | *RAB26* | *TREX1* |
| *LAMB1* | *C11orf92* | *EBF4* | *LGALS9* | *RDM1* | *TRIM74* |
| *LAMC1* | *C11orf93* | *EPHB6* | *LIME1* | *RIBC1* | *TSPAN32* |
| *NRP1* | *C16orf75* | *EPHX2* | *LOC113230* | *RIBC2* | *TTC21A* |
| *OSMR* | *C19orf57* | *EYA2* | *LOC254559* | *RNF212* | *TTC23L* |
| *P4HA2* | *C21orf49* | *FAM3B* | *LOC339674* | *RNFT2* | *UBXN11* |
| *PANX1* | *C2orf77* | *FLT3LG* | *LOC541473* | *RUFY4* | *WBP2NL* |
| *PHLDB2* | *C3orf47* | *FOXE3* | *LOC643008* | *S1PR4* | *WNK2* |
| *PMEPA1* | *C5orf39* | *FRAT1* | *LRRC56* | *SCNN1A* | *YPEL1* |
| *PTP4A1* | *CA11* | *GADD45G* | *LST1* | *SEPT1* | *ZAP70* |
| *SGPP1* | *CBR3* | *GATM* | *MAK* | *SEPT3* | *ZFR2* |
| *SHC1* | *CCDC114* | *GCHFR* | *MAP4K1* | *SH2D1A* | *ZNF541* |
| *SLC39A14* | *CCDC28B* | *GGT6* | *MFSD4* | *SKAP1* |  |
| *TMED7-TICAM2* | *CD2* | *GHRL* | *MGAT3* | *SLC16A11* |  |
| *TNFRSF12A* | *CD3D* | *GLB1L2* | *MRS2P2* | *SLC25A29* |  |
| *TUBB3* | *CD3E* | *GLS2* | *N4BP2L1* | *SMAD5OS* |  |
| *WWC2* | *CD6* | *GRAMD1C* | *NPM2* | *SMC1B* |  |
| *ZNF281* | *CD8B* | *GZMM* | *NRADDP* | *SOX21* |  |

SAM cutoff values:

* FDR: 0.01
* FC: 1.7