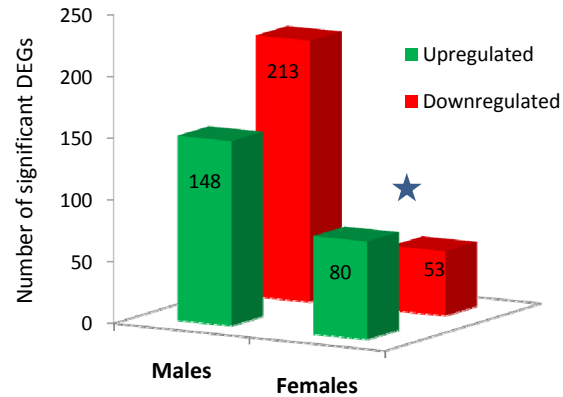


A



B



Upregulated in males

- Metabolic process: HMGCS2 FBP2 SLC45A2 GSTM4 CAMK2B CYP20A1 ATP10B CUL5 CDKN2A NSMCE1 FOXB2 POLI NDUFC1 TAT AHR FBXO30 PSAT1 SRBD1 PLS3
- Amine metabolic process: MTR FTCD ITIH3 PSAT1 TAT
- Nitrogen compound metabolic process: MTR HEBP1 UROD MCTS2 PSAT1 TPH1 CNOT8 LSM6
- Gene expression: HDAC2 ENY2 BMI1 ETOH1 TAF1A RBM4 CDKN2A ZFP819 SCG5 FOXB2 EXOSC8 AHR GTF2H2 MED31 PARP14
- Cellular response to stimulus: AHR GSTM4 ING4 CLSPN POLI NSMCE1 CX3CR1 MBD4 TOPBP1 GTF2H2

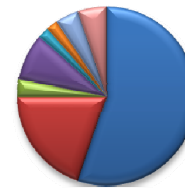
C



Downregulated in males

- Regulation of biological process: MAP2K4 HFS4 KCNH1 KCNH2 EIF4EBP2 CRY2 HSF1 SIK1 SSBP3 RELA VAMP2 BAT2 BAT3 SPOCK2 PXN TRIB1 PER1 PLCD1
- Basic helix-loop-helix transcription factor: TAL2 TCFE3 TCF3 HEYL
- Cellular macromolecule metabolic process: SREBP2 CAMKK1 CRY2 BRD4 ZDHHC3 PKDCC PIM3 IRF2BP1 PROX1 NEK11 PURA HOXC10 CREB5 SPOCK2 UBP1 SRRM2
- Phosphorylation: BCKDK LIMK1 MYLK3 PKDCC PIM3 ADORA1 PXN TRIB1 DYRK1B BRD4 ND6 STK38L
- Regulation of transcription: GATA4 MEF2D NOTCH4 JDP2 ZFP42 RORC TCFE3 MED12L TAL2 NR1H2 FOXJ2 FOXP4 SF1 CREB5 SKI PROX1 PURA HOXB3 HOXC10 TRAF3IP1 SP2 HEYL
- Voltage-gated ion channel: SCN5A KCNH1 KCNJ9 SCN9A KCTD17 KCNJ12 KCNH2
- Anatomical structure development: RORC PXN TAL2 RGMA SPRY1 KATNA1 KIRREL3 LIMK1 PCNT LDB1 PROX1 NTN1 XIRP1 DYRK1B POLDIP2 BIN3 STMN1 MESP1 NFIC ATP7B
- Apoptosis: TRAF3IP2 ECE1 TBGR4 GRAMD4 NTN1 BAT3 BAT2 PURA PHLDA1
- Cell cycle: PCNT KATNA1 SF1 NEK11
- Cardiac cell differentiation: XIRP1 GATA4 PROX1
- Viral myocarditis: MYH14 MYH8 H2-M10.3 DAG1 H2-T10
- Actin binding cytoskeletal protein: CORO1B ACTL6B PXN XIRP1 SYNPO2L

D



Upregulated in females

- Binding: HMGCS2 FBP2 PAQR5 MYO7A TNFSF14 TRPV5 MS4A2 POLI AIFM3 DECR2 MBD4 CAMK2B FBN2 TRIM25 NEB EMILIN1 STAT2 CLSPN STK36 SNRNP35 GRIFIN GRK4 LUC7L PSAT1 SRBD1 PDZD3 ATP7B
- Nitrogen compound metabolism: FTCD MBD4 AHR BRWD1 ZFP819 SDS GUCY1A2 FOXB2 SNRNP35 GM7278 ITIH3 PSAT1 TPH1 SRBD1
- Extracellular matrix organization: SERPINB5 GFOD2 EMILIN1
- Enzyme regulator activity: RGL3 TNFSF14 RAPGEF3 ITIH3 PDZD3
- Ammonia-lyase activity: SDS FTCD
- Caspase regulator activity: AIFM3 TNFSF14
- Chemokine signaling pathway: STAT2 CX3CR1 GRK4
- Cation transport: CAPS2 TRPV5 CHRN3 KCNA5 ATP7B

E



Downregulated in females

- Response to stimulus: PRG4 SLC6A2 H2-10 HCK C230052I12RIK PDE3B COTL1 MDK TRAF3IP2 PDE6A PENK SCN9A ABAT CRY1
- Multicellular response to stress: PENK SLC6A2 SCN9A
- Hydrolase activity: KDELR3 LASS4 PTPLB PDE3B IIGP1 DOLPP1 ADORA1 SREBF2 2900062L11RIK
- Endoplasmic Reticulum: DE6A DUSP5 PTPLB INPP5J PDE3B PNPLA3
- Transaminase: BCAT1 ABAT