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| **Category** | **Term** | **Count** | ***p*‐value** | **Genes** |
| BP | GO:0001570~vasculogenesis | 5 | 0.01 | GJC1, ACKR3, PTK2, TEAD2, VEGFA |
| BP | GO:0050900~leukocyte migration | 7 | 0.011 | SELP, CXADR, ITGA4, PDE4B, SIRPA, SLC16A3, NKX2-3 |
| BP | GO:0051607~defense response to virus | 7 | 0.04 | DNAJC3, RNASEL, CXADR, OAS1, STAT1, NCBP3, IFIT1 |
| BP | GO:0007507~heart development | 7 | 0.06 | GJA1, CXADR, LOX, TRPS1, XIRP2, BCOR, FBN1 |
| BP | GO:0009311~oligosaccharide metabolic process | 3 | 0.056 | ST6GAL2, ST8SIA4, ST3GAL6 |
| BP | GO:0007159~leukocyte cell-cell adhesion | 3 | 0.056 | SELP, ITGA4, EZR |
| BP | GO:0009615~response to virus | 4 | 0.09 | GJA1, STMN1, TRIM13, GNG11 |
|  |  |  |  |  |
| BP | GO:0030198~extracellular matrix organization | 7 | 0.084 | ITGA4, LOX, ABI3BP, ITGA2, SPP1, PTK2, FBN1 |
| CC | GO:0005662~DNA replication factor A  complex | 4 | 1.4E-3 | PURB, PURA, RPA4, ERCC5 |

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| CC | GO:0005654~nucleoplasm | 60 | 0.7E-2 | NUMA1, C2ORF88, ZBTB20, EFCAB13, AHR, CLINT1, PTPDC1, CDC14A, DCAF7, CDC14B, SPRED1, METTL14, TRPS1, NAMPT, UBXN7, TEAD2, C8ORF44, KDM6A, FNBP4, CXADR, RMI1, GTF3A, HCFC2, CDC25A, EMSY, SGO2, ZC3H11A, MORF4L2, BMP2K, AAGAB, ANAPC5, MCTP2, CASZ1, XIAP, NMD3, TGOLN2, CAND1, NAA25, E2F1, SRSF11, SCAI, TCF7L2, RBM39, NFYB, STAT1, PCIF1, ANKRD23, BTBD8, SMARCA2, SCAF4, FOSL2, SELP, RAD52, NFIA, RPA4, ZNF217, ERCC5, NANOG, RAD18, FERMT2 |

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| CC | GO:0005925~focal adhesion | 14 | 0.8E-2 | TPM4, ITGA4, ITGA2, LPP, TRIOBP, PTK2, GJA1, NFASC, NCSTN, CSRP2,  ATP6V0A2, P4HB, EZR, FERMT2 |
| CC | GO:0043197~dendritic spine | 6 | 1.9E-2 | FARP1, ARHGAP32, PDE4B, CRIPT, STRN, SHANK2 |

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| CC | GO:0045177~apical part of cell | 5 | 2.9E-2 | SRR, NUMA1, FAT4, EZR, ATP6V1C1 |
| KEGG | hsa05160:Hepatitis C | 7 | 1.4E-2 | RNASEL, OAS1, PPP2R1B, PPP2R2B, STAT1, PPP2R2D, IFIT1 |
| KEGG | hsa04390:Hippo signaling pathway | 6 | 7.5E-2 | TCF7L2, PPP2R1B, PPP2R2B, PPP2R2D, BMPR1B, TEAD2 |
| KEGG | hsa05412:Arrhythmogenic right ventricular  cardiomyopathy (ARVC) | 4 | 7.8E-2 | TCF7L2, GJA1, ITGA4, ITGA2 |

*Note*. BP: biological process; CC: cell component; GO: gene ontology; KEGG: Kyoto Encyclopedia of Genes and Genomes; MF: molecular function (as ranked by the p-value)