**Table S2. Biological process gene ontology (GO) terms significantly enriched among the 76 validated mir-346 target genes.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **GO term** | **Description** | **P-value1** | **FDR q-value2** | **Enrichment (N, B, n, b)3** | **Genes** |
| GO:0071364 | cellular response to epidermal growth factor stimulus | 4.88E-4 | 3.92E-1 | 19.46 (18238,38,74,3) | PDPK1 - 3-phosphoinositide dependent protein kinase-1ZFP36 - zfp36 ring finger proteinCFLAR - casp8 and fadd-like apoptosis regulator |
| GO:0070849 | response to epidermal growth factor | 6.57E-4 | 3.85E-1 | 17.60 (18238,42,74,3) | PDPK1 - 3-phosphoinositide dependent protein kinase-1ZFP36 - zfp36 ring finger proteinCFLAR - casp8 and fadd-like apoptosis regulator |
| GO:0018022 | peptidyl-lysine methylation | 2.44E-4 | 4.13E-1 | 13.14 (18238,75,74,4) | KMT2D - lysine (k)-specific methyltransferase 2dPRDM16 - pr domain containing 16EZH1 - enhancer of zeste homolog 1 (drosophila)SETD4 - set domain containing 4 |
| GO:0016571 | histone methylation | 4.31E-4 | 4.38E-1 | 11.33 (18238,87,74,4) | KMT2D - lysine (k)-specific methyltransferase 2dPRDM16 - pr domain containing 16EZH1 - enhancer of zeste homolog 1 (drosophila)PRMT5 - protein arginine methyltransferase 5 |
| GO:0002474 | antigen processing and presentation of peptide antigen via MHC class I | 5.11E-4 | 3.9E-1 | 10.83 (18238,91,74,4) | PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3BCAP31 - b-cell receptor-associated protein 31TAP1 - transporter 1, atp-binding cassette, sub-family b (mdr/tap) |
| GO:0006479 | protein methylation | 1.6E-4 | 6.09E-1 | 9.78 (18238,126,74,5) | KMT2D - lysine (k)-specific methyltransferase 2dPRDM16 - pr domain containing 16EZH1 - enhancer of zeste homolog 1 (drosophila)PRMT5 - protein arginine methyltransferase 5SETD4 - set domain containing 4 |
| GO:0008213 | protein alkylation | 1.6E-4 | 4.88E-1 | 9.78 (18238,126,74,5) | KMT2D - lysine (k)-specific methyltransferase 2dPRDM16 - pr domain containing 16EZH1 - enhancer of zeste homolog 1 (drosophila)PRMT5 - protein arginine methyltransferase 5SETD4 - set domain containing 4 |
| GO:0038093 | Fc receptor signaling pathway | 9.6E-5 | 1E0 | 8.13 (18238,182,74,6) | PDPK1 - 3-phosphoinositide dependent protein kinase-1PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3BTK - bruton agammaglobulinemia tyrosine kinaseLIMK1 - lim domain kinase 1CD247 - cd247 molecule |
| GO:0006367 | transcription initiation from RNA polymerase II promoter | 4.43E-4 | 4.22E-1 | 7.85 (18238,157,74,5) | NR6A1 - nuclear receptor subfamily 6, group a, member 1MED16 - mediator complex subunit 16RXRB - retinoid x receptor, betaTEAD2 - tea domain family member 2NR2F6 - nuclear receptor subfamily 2, group f, member 6 |
| GO:0050851 | antigen receptor-mediated signaling pathway | 5.87E-4 | 4.26E-1 | 7.38 (18238,167,74,5) | PDPK1 - 3-phosphoinositide dependent protein kinase-1PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3BTK - bruton agammaglobulinemia tyrosine kinaseCD247 - cd247 molecule |
| GO:0002699 | positive regulation of immune effector process | 6.36E-4 | 4.04E-1 | 7.25 (18238,170,74,5) | PDPK1 - 3-phosphoinositide dependent protein kinase-1IL18 - interleukin 18 (interferon-gamma-inducing factor)GPI - glucose-6-phosphate isomeraseBTK - bruton agammaglobulinemia tyrosine kinasePVR - poliovirus receptor |
| GO:0051348 | negative regulation of transferase activity | 1.18E-4 | 9E-1 | 5.37 (18238,367,74,8) | PDPK1 - 3-phosphoinositide dependent protein kinase-1PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1ZFP36 - zfp36 ring finger proteinPSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3GSK3B - glycogen synthase kinase 3 betaLIMK1 - lim domain kinase 1TERF1 - telomeric repeat binding factor (nima-interacting) 1MAPK8IP1 - mitogen-activated protein kinase 8 interacting protein 1 |
| GO:0002429 | immune response-activating cell surface receptor signaling pathway | 8.91E-4 | 4.24E-1 | 5.36 (18238,276,74,6) | PDPK1 - 3-phosphoinositide dependent protein kinase-1PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3BTK - bruton agammaglobulinemia tyrosine kinaseLIMK1 - lim domain kinase 1CD247 - cd247 molecule |
| GO:0031349 | positive regulation of defense response | 2.47E-4 | 3.43E-1 | 4.82 (18238,409,74,8) | PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1PDPK1 - 3-phosphoinositide dependent protein kinase-1IL18 - interleukin 18 (interferon-gamma-inducing factor)CNPY3 - canopy fgf signaling regulator 3PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3BTK - bruton agammaglobulinemia tyrosine kinaseETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1PVR - poliovirus receptor |
| GO:0002757 | immune response-activating signal transduction | 7.37E-4 | 4.16E-1 | 4.68 (18238,369,74,7) | PDPK1 - 3-phosphoinositide dependent protein kinase-1PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1CNPY3 - canopy fgf signaling regulator 3PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3BTK - bruton agammaglobulinemia tyrosine kinaseLIMK1 - lim domain kinase 1CD247 - cd247 molecule |
| GO:1903706 | regulation of hemopoiesis | 4.28E-4 | 4.66E-1 | 4.44 (18238,444,74,8) | PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1KMT2D - lysine (k)-specific methyltransferase 2dIL18 - interleukin 18 (interferon-gamma-inducing factor)ZFP36 - zfp36 ring finger proteinPSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3BTK - bruton agammaglobulinemia tyrosine kinaseETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1LIF - leukemia inhibitory factor |
| GO:0050778 | positive regulation of immune response | 8.14E-4 | 4.14E-1 | 3.62 (18238,613,74,9) | PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1PDPK1 - 3-phosphoinositide dependent protein kinase-1IL18 - interleukin 18 (interferon-gamma-inducing factor)CNPY3 - canopy fgf signaling regulator 3PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3BTK - bruton agammaglobulinemia tyrosine kinaseLIMK1 - lim domain kinase 1PVR - poliovirus receptorCD247 - cd247 molecule |
| GO:0002684 | positive regulation of immune system process | 2.39E-4 | 4.56E-1 | 3.30 (18238,895,74,12) | PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1PDPK1 - 3-phosphoinositide dependent protein kinase-1IL18 - interleukin 18 (interferon-gamma-inducing factor)CNPY3 - canopy fgf signaling regulator 3PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3BTK - bruton agammaglobulinemia tyrosine kinaseGPI - glucose-6-phosphate isomeraseETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1LIMK1 - lim domain kinase 1LIF - leukemia inhibitory factorPVR - poliovirus receptorCD247 - cd247 molecule |
| GO:0018193 | peptidyl-amino acid modification | 6.49E-4 | 3.96E-1 | 3.16 (18238,858,74,11) | PDPK1 - 3-phosphoinositide dependent protein kinase-1KMT2D - lysine (k)-specific methyltransferase 2dUSP22 - ubiquitin specific peptidase 22PRDM16 - pr domain containing 16EZH1 - enhancer of zeste homolog 1 (drosophila)BTK - bruton agammaglobulinemia tyrosine kinasePRMT5 - protein arginine methyltransferase 5GSK3B - glycogen synthase kinase 3 betaASGR2 - asialoglycoprotein receptor 2LIF - leukemia inhibitory factorSETD4 - set domain containing 4 |
| GO:0002682 | regulation of immune system process | 4.58E-4 | 3.88E-1 | 2.62 (18238,1409,74,15) | IL18 - interleukin 18 (interferon-gamma-inducing factor)ZFP36 - zfp36 ring finger proteinPSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3CNPY3 - canopy fgf signaling regulator 3LIMK1 - lim domain kinase 1LIF - leukemia inhibitory factorKMT2D - lysine (k)-specific methyltransferase 2dPDPK1 - 3-phosphoinositide dependent protein kinase-1PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1GPI - glucose-6-phosphate isomeraseBTK - bruton agammaglobulinemia tyrosine kinaseIFNGR2 - interferon gamma receptor 2 (interferon gamma transducer 1)ETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1PVR - poliovirus receptorCD247 - cd247 molecule |
| GO:0045595 | regulation of cell differentiation | 2.47E-4 | 3.77E-1 | 2.55 (18238,1642,74,17) | IL18 - interleukin 18 (interferon-gamma-inducing factor)PRDM16 - pr domain containing 16ZFP36 - zfp36 ring finger proteinPSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3CFLAR - casp8 and fadd-like apoptosis regulatorLIMK1 - lim domain kinase 1LIF - leukemia inhibitory factorSSH3 - slingshot protein phosphatase 3PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1KMT2D - lysine (k)-specific methyltransferase 2dGJC2 - gap junction protein, gamma 2, 47kdaINPP5J - inositol polyphosphate-5-phosphatase jBTK - bruton agammaglobulinemia tyrosine kinasePRMT5 - protein arginine methyltransferase 5GSK3B - glycogen synthase kinase 3 betaETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1TEAD2 - tea domain family member 2 |
| GO:0048584 | positive regulation of response to stimulus | 1.32E-4 | 6.72E-1 | 2.41 (18238,2044,74,20) | IL18 - interleukin 18 (interferon-gamma-inducing factor)PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3CNPY3 - canopy fgf signaling regulator 3PPP2R1B - protein phosphatase 2, regulatory subunit a, betaCFLAR - casp8 and fadd-like apoptosis regulatorLIMK1 - lim domain kinase 1LIF - leukemia inhibitory factorMAPK8IP1 - mitogen-activated protein kinase 8 interacting protein 1PIK3R3 - phosphoinositide-3-kinase, regulatory subunit 3 (gamma)PDPK1 - 3-phosphoinositide dependent protein kinase-1PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1KMT2D - lysine (k)-specific methyltransferase 2dHRK - harakiri, bcl2 interacting protein (contains only bh3 domain)BCAP31 - b-cell receptor-associated protein 31BTK - bruton agammaglobulinemia tyrosine kinasePRMT5 - protein arginine methyltransferase 5GSK3B - glycogen synthase kinase 3 betaETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1PVR - poliovirus receptorCD247 - cd247 molecule |
| GO:0006357 | regulation of transcription by RNA polymerase II | 6.17E-4 | 4.09E-1 | 2.28 (18238,1945,74,18) | IL18 - interleukin 18 (interferon-gamma-inducing factor)PRDM16 - pr domain containing 16ZFP36 - zfp36 ring finger proteinPSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3MED16 - mediator complex subunit 16POU2F1 - pou class 2 homeobox 1RXRB - retinoid x receptor, betaLIF - leukemia inhibitory factorFOXF2 - forkhead box f2RFX1 - regulatory factor x, 1 (influences hla class ii expression)PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1NR6A1 - nuclear receptor subfamily 6, group a, member 1KMT2D - lysine (k)-specific methyltransferase 2dBCOR - bcl6 corepressorEZH1 - enhancer of zeste homolog 1 (drosophila)ETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1TEAD2 - tea domain family member 2NR2F6 - nuclear receptor subfamily 2, group f, member 6 |
| GO:0006793 | phosphorus metabolic process | 7.53E-4 | 4.1E-1 | 2.24 (18238,1978,74,18) | IL18 - interleukin 18 (interferon-gamma-inducing factor)ZFP36 - zfp36 ring finger proteinPSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3LIMK1 - lim domain kinase 1GALT - galactose-1-phosphate uridylyltransferaseLIF - leukemia inhibitory factorMAPK8IP1 - mitogen-activated protein kinase 8 interacting protein 1PIK3R3 - phosphoinositide-3-kinase, regulatory subunit 3 (gamma)PDPK1 - 3-phosphoinositide dependent protein kinase-1SSH3 - slingshot protein phosphatase 3PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1INPP5J - inositol polyphosphate-5-phosphatase jSBF1 - set binding factor 1TSTA3 - tissue specific transplantation antigen p35bBTK - bruton agammaglobulinemia tyrosine kinaseCKB - creatine kinase, brainGPI - glucose-6-phosphate isomeraseGSK3B - glycogen synthase kinase 3 beta |
| GO:0009892 | negative regulation of metabolic process | 7.73E-4 | 4.06E-1 | 1.96 (18238,2887,74,23) | PRDM16 - pr domain containing 16ZFP36 - zfp36 ring finger proteinPSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3CFLAR - casp8 and fadd-like apoptosis regulatorPOU2F1 - pou class 2 homeobox 1APLP2 - amyloid beta (a4) precursor-like protein 2LIMK1 - lim domain kinase 1LIF - leukemia inhibitory factorFOXF2 - forkhead box f2TERF1 - telomeric repeat binding factor (nima-interacting) 1MAPK8IP1 - mitogen-activated protein kinase 8 interacting protein 1PDPK1 - 3-phosphoinositide dependent protein kinase-1PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1NR6A1 - nuclear receptor subfamily 6, group a, member 1KMT2D - lysine (k)-specific methyltransferase 2dBCOR - bcl6 corepressorBSCL2 - berardinelli-seip congenital lipodystrophy 2 (seipin)INPP5J - inositol polyphosphate-5-phosphatase jGPI - glucose-6-phosphate isomeraseGSK3B - glycogen synthase kinase 3 betaPRMT5 - protein arginine methyltransferase 5RPL30 - ribosomal protein l30NR2F6 - nuclear receptor subfamily 2, group f, member 6 |
| GO:0048856 | anatomical structure development | 4.44E-4 | 3.99E-1 | 1.95 (18238,3154,74,25) | LIMK1 - lim domain kinase 1LIF - leukemia inhibitory factorCCHCR1 - coiled-coil alpha-helical rod protein 1IL11RA - interleukin 11 receptor, alphaPDPK1 - 3-phosphoinositide dependent protein kinase-1KMT2D - lysine (k)-specific methyltransferase 2dBCOR - bcl6 corepressorUSP22 - ubiquitin specific peptidase 22GJC2 - gap junction protein, gamma 2, 47kdaGPI - glucose-6-phosphate isomeraseBTK - bruton agammaglobulinemia tyrosine kinaseETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1CD164 - cd164 molecule, sialomucinPRDM16 - pr domain containing 16CFLAR - casp8 and fadd-like apoptosis regulatorFOXF2 - forkhead box f2SLC39A1 - solute carrier family 39 (zinc transporter), member 1EZH1 - enhancer of zeste homolog 1 (drosophila)CKB - creatine kinase, brainGSK3B - glycogen synthase kinase 3 betaPRMT5 - protein arginine methyltransferase 5ASGR2 - asialoglycoprotein receptor 2CRELD1 - cysteine-rich with egf-like domains 1TEAD2 - tea domain family member 2NR2F6 - nuclear receptor subfamily 2, group f, member 6 |
| GO:0044271 | cellular nitrogen compound biosynthetic process | 6E-4 | 4.16E-1 | 1.92 (18238,3216,74,25) | TERF1 - telomeric repeat binding factor (nima-interacting) 1RFX1 - regulatory factor x, 1 (influences hla class ii expression)NR6A1 - nuclear receptor subfamily 6, group a, member 1PDPK1 - 3-phosphoinositide dependent protein kinase-1BDH2 - 3-hydroxybutyrate dehydrogenase, type 2KMT2D - lysine (k)-specific methyltransferase 2dBCOR - bcl6 corepressorUSP22 - ubiquitin specific peptidase 22BTK - bruton agammaglobulinemia tyrosine kinaseETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1PRDM16 - pr domain containing 16MED16 - mediator complex subunit 16POU2F1 - pou class 2 homeobox 1RXRB - retinoid x receptor, betaFOXF2 - forkhead box f2ZNF417 - zinc finger protein 417EZH1 - enhancer of zeste homolog 1 (drosophila)TSTA3 - tissue specific transplantation antigen p35bPOLD3 - polymerase (dna-directed), delta 3, accessory subunitRAD51AP1 - rad51 associated protein 1PRMT5 - protein arginine methyltransferase 5RPL30 - ribosomal protein l30TEAD2 - tea domain family member 2GGT5 - gamma-glutamyltransferase 5NR2F6 - nuclear receptor subfamily 2, group f, member 6 |
| GO:1901576 | organic substance biosynthetic process | 2.3E-4 | 5E-1 | 1.82 (18238,4197,74,31) | IL18 - interleukin 18 (interferon-gamma-inducing factor)TERF1 - telomeric repeat binding factor (nima-interacting) 1RFX1 - regulatory factor x, 1 (influences hla class ii expression)PIK3R3 - phosphoinositide-3-kinase, regulatory subunit 3 (gamma)KMT2D - lysine (k)-specific methyltransferase 2dNR6A1 - nuclear receptor subfamily 6, group a, member 1PDPK1 - 3-phosphoinositide dependent protein kinase-1BDH2 - 3-hydroxybutyrate dehydrogenase, type 2BCOR - bcl6 corepressorUSP22 - ubiquitin specific peptidase 22INPP5J - inositol polyphosphate-5-phosphatase jPTGS1 - prostaglandin-endoperoxide synthase 1 (prostaglandin g/h synthase and cyclooxygenase)GPI - glucose-6-phosphate isomeraseBTK - bruton agammaglobulinemia tyrosine kinaseETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1PRDM16 - pr domain containing 16MED16 - mediator complex subunit 16POU2F1 - pou class 2 homeobox 1RXRB - retinoid x receptor, betaFOXF2 - forkhead box f2ZNF417 - zinc finger protein 417EZH1 - enhancer of zeste homolog 1 (drosophila)SBF1 - set binding factor 1TSTA3 - tissue specific transplantation antigen p35bPOLD3 - polymerase (dna-directed), delta 3, accessory subunitRAD51AP1 - rad51 associated protein 1PRMT5 - protein arginine methyltransferase 5TEAD2 - tea domain family member 2RPL30 - ribosomal protein l30GGT5 - gamma-glutamyltransferase 5NR2F6 - nuclear receptor subfamily 2, group f, member 6 |
| GO:0044249 | cellular biosynthetic process | 3.46E-4 | 4.06E-1 | 1.81 (18238,4085,74,30) | TERF1 - telomeric repeat binding factor (nima-interacting) 1RFX1 - regulatory factor x, 1 (influences hla class ii expression)PIK3R3 - phosphoinositide-3-kinase, regulatory subunit 3 (gamma)KMT2D - lysine (k)-specific methyltransferase 2dNR6A1 - nuclear receptor subfamily 6, group a, member 1PDPK1 - 3-phosphoinositide dependent protein kinase-1BDH2 - 3-hydroxybutyrate dehydrogenase, type 2BCOR - bcl6 corepressorUSP22 - ubiquitin specific peptidase 22INPP5J - inositol polyphosphate-5-phosphatase jPTGS1 - prostaglandin-endoperoxide synthase 1 (prostaglandin g/h synthase and cyclooxygenase)GPI - glucose-6-phosphate isomeraseBTK - bruton agammaglobulinemia tyrosine kinaseETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1PRDM16 - pr domain containing 16MED16 - mediator complex subunit 16POU2F1 - pou class 2 homeobox 1RXRB - retinoid x receptor, betaFOXF2 - forkhead box f2ZNF417 - zinc finger protein 417EZH1 - enhancer of zeste homolog 1 (drosophila)SBF1 - set binding factor 1TSTA3 - tissue specific transplantation antigen p35bPOLD3 - polymerase (dna-directed), delta 3, accessory subunitRAD51AP1 - rad51 associated protein 1PRMT5 - protein arginine methyltransferase 5TEAD2 - tea domain family member 2RPL30 - ribosomal protein l30GGT5 - gamma-glutamyltransferase 5NR2F6 - nuclear receptor subfamily 2, group f, member 6 |
| GO:0009058 | biosynthetic process | 3.07E-4 | 3.9E-1 | 1.79 (18238,4262,74,31) | IL18 - interleukin 18 (interferon-gamma-inducing factor)TERF1 - telomeric repeat binding factor (nima-interacting) 1RFX1 - regulatory factor x, 1 (influences hla class ii expression)PIK3R3 - phosphoinositide-3-kinase, regulatory subunit 3 (gamma)KMT2D - lysine (k)-specific methyltransferase 2dNR6A1 - nuclear receptor subfamily 6, group a, member 1PDPK1 - 3-phosphoinositide dependent protein kinase-1BDH2 - 3-hydroxybutyrate dehydrogenase, type 2BCOR - bcl6 corepressorUSP22 - ubiquitin specific peptidase 22INPP5J - inositol polyphosphate-5-phosphatase jPTGS1 - prostaglandin-endoperoxide synthase 1 (prostaglandin g/h synthase and cyclooxygenase)GPI - glucose-6-phosphate isomeraseBTK - bruton agammaglobulinemia tyrosine kinaseETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1PRDM16 - pr domain containing 16MED16 - mediator complex subunit 16POU2F1 - pou class 2 homeobox 1RXRB - retinoid x receptor, betaFOXF2 - forkhead box f2ZNF417 - zinc finger protein 417EZH1 - enhancer of zeste homolog 1 (drosophila)SBF1 - set binding factor 1TSTA3 - tissue specific transplantation antigen p35bPOLD3 - polymerase (dna-directed), delta 3, accessory subunitRAD51AP1 - rad51 associated protein 1PRMT5 - protein arginine methyltransferase 5TEAD2 - tea domain family member 2RPL30 - ribosomal protein l30GGT5 - gamma-glutamyltransferase 5NR2F6 - nuclear receptor subfamily 2, group f, member 6 |
| GO:0044238 | primary metabolic process | 2.11E-4 | 5.37E-1 | 1.45 (18238,8495,74,50) | IL18 - interleukin 18 (interferon-gamma-inducing factor)APLP2 - amyloid beta (a4) precursor-like protein 2LIMK1 - lim domain kinase 1LIF - leukemia inhibitory factorRFX1 - regulatory factor x, 1 (influences hla class ii expression)HNRNPA3 - heterogeneous nuclear ribonucleoprotein a3NR6A1 - nuclear receptor subfamily 6, group a, member 1PIK3R3 - phosphoinositide-3-kinase, regulatory subunit 3 (gamma)BDH2 - 3-hydroxybutyrate dehydrogenase, type 2BCOR - bcl6 corepressorINPP5J - inositol polyphosphate-5-phosphatase jBTK - bruton agammaglobulinemia tyrosine kinaseGPI - glucose-6-phosphate isomeraseRAD54B - rad54 homolog b (s. cerevisiae)PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3MED16 - mediator complex subunit 16CFLAR - casp8 and fadd-like apoptosis regulatorFOXF2 - forkhead box f2ZNF417 - zinc finger protein 417PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1BSCL2 - berardinelli-seip congenital lipodystrophy 2 (seipin)DCAF11 - ddb1 and cul4 associated factor 11EZH1 - enhancer of zeste homolog 1 (drosophila)TSTA3 - tissue specific transplantation antigen p35bRAD51AP1 - rad51 associated protein 1RPL30 - ribosomal protein l30GGT5 - gamma-glutamyltransferase 5GALT - galactose-1-phosphate uridylyltransferaseTERF1 - telomeric repeat binding factor (nima-interacting) 1SETD4 - set domain containing 4PDPK1 - 3-phosphoinositide dependent protein kinase-1KMT2D - lysine (k)-specific methyltransferase 2dSSH3 - slingshot protein phosphatase 3USP22 - ubiquitin specific peptidase 22PTGS1 - prostaglandin-endoperoxide synthase 1 (prostaglandin g/h synthase and cyclooxygenase)ETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1ZFP36 - zfp36 ring finger proteinPRDM16 - pr domain containing 16RXRB - retinoid x receptor, betaPOU2F1 - pou class 2 homeobox 1MAPK8IP1 - mitogen-activated protein kinase 8 interacting protein 1SBF1 - set binding factor 1FNTB - farnesyltransferase, caax box, betaPOLD3 - polymerase (dna-directed), delta 3, accessory subunitCKB - creatine kinase, brainGSK3B - glycogen synthase kinase 3 betaASGR2 - asialoglycoprotein receptor 2PRMT5 - protein arginine methyltransferase 5TEAD2 - tea domain family member 2NR2F6 - nuclear receptor subfamily 2, group f, member 6 |
| GO:0071704 | organic substance metabolic process | 8.22E-4 | 4.04E-1 | 1.39 (18238,8895,74,50) | IL18 - interleukin 18 (interferon-gamma-inducing factor)APLP2 - amyloid beta (a4) precursor-like protein 2LIMK1 - lim domain kinase 1LIF - leukemia inhibitory factorRFX1 - regulatory factor x, 1 (influences hla class ii expression)HNRNPA3 - heterogeneous nuclear ribonucleoprotein a3NR6A1 - nuclear receptor subfamily 6, group a, member 1PIK3R3 - phosphoinositide-3-kinase, regulatory subunit 3 (gamma)BDH2 - 3-hydroxybutyrate dehydrogenase, type 2BCOR - bcl6 corepressorINPP5J - inositol polyphosphate-5-phosphatase jBTK - bruton agammaglobulinemia tyrosine kinaseGPI - glucose-6-phosphate isomeraseRAD54B - rad54 homolog b (s. cerevisiae)PSMA3 - proteasome (prosome, macropain) subunit, alpha type, 3MED16 - mediator complex subunit 16CFLAR - casp8 and fadd-like apoptosis regulatorFOXF2 - forkhead box f2ZNF417 - zinc finger protein 417PSMD1 - proteasome (prosome, macropain) 26s subunit, non-atpase, 1BSCL2 - berardinelli-seip congenital lipodystrophy 2 (seipin)DCAF11 - ddb1 and cul4 associated factor 11EZH1 - enhancer of zeste homolog 1 (drosophila)TSTA3 - tissue specific transplantation antigen p35bRAD51AP1 - rad51 associated protein 1RPL30 - ribosomal protein l30GGT5 - gamma-glutamyltransferase 5GALT - galactose-1-phosphate uridylyltransferaseTERF1 - telomeric repeat binding factor (nima-interacting) 1SETD4 - set domain containing 4PDPK1 - 3-phosphoinositide dependent protein kinase-1KMT2D - lysine (k)-specific methyltransferase 2dSSH3 - slingshot protein phosphatase 3USP22 - ubiquitin specific peptidase 22PTGS1 - prostaglandin-endoperoxide synthase 1 (prostaglandin g/h synthase and cyclooxygenase)ETS1 - v-ets avian erythroblastosis virus e26 oncogene homolog 1ZFP36 - zfp36 ring finger proteinPRDM16 - pr domain containing 16RXRB - retinoid x receptor, betaPOU2F1 - pou class 2 homeobox 1MAPK8IP1 - mitogen-activated protein kinase 8 interacting protein 1SBF1 - set binding factor 1FNTB - farnesyltransferase, caax box, betaPOLD3 - polymerase (dna-directed), delta 3, accessory subunitCKB - creatine kinase, brainGSK3B - glycogen synthase kinase 3 betaASGR2 - asialoglycoprotein receptor 2PRMT5 - protein arginine methyltransferase 5TEAD2 - tea domain family member 2NR2F6 - nuclear receptor subfamily 2, group f, member 6 |

1Enrichment p-value computed according to the mHG or HG model

2Correction of the p-value for multiple testing using the Benjamini and Hochberg method.

3Enrichment = (b/n) / (B/N); N: the total number of genes; B: the total number of genes associated with a specific GO term; n: the number of genes in the target set; b: the number of genes in the intersection.