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| **Table S16. List of disease &functions which is specifically identified in gene co-expression modules in B cells of primary Sjögren's syndrome.** | | | | | |
| Categories | Diseases or Functions Annotation | p-Value | # Molecules | Molecules | Moldule |
| Amino Acid Metabolism,Molecular Transport,Small Molecule Biochemistry | Secretion of homocysteine | 0.0128 | 1 | PCYT1A | blue |
| Auditory and Vestibular System Development and Function,Auditory Disease,Cell Morphology,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities | Abnormal morphology of marginal stria vascularis cells | 0.0441 | 1 | COL4A3 | blue |
| Auditory Disease,Infectious Diseases | Infection of ear | 0.00642 | 1 | NCF1 | blue |
| Behavior | Self-administration of cocaine | 0.0379 | 1 | AGO2 | blue |
| Behavior,Nervous System Development and Function | Olfactory-discrimination memory | 0.0254 | 1 | NREP | blue |
| Cancer,Cardiovascular Disease,Developmental Disorder,Hematological Disease,Hereditary Disorder,Organismal Injury and Abnormalities | Diamond-Blackfan anemia type 12 | 0.00642 | 1 | RPL15 | blue |
| Cancer,Cell Cycle | Aneuploidization of cervical cancer cell lines | 0.0128 | 1 | YWHAH | blue |
| Cancer,Cellular Movement,Organismal Injury and Abnormalities | Invasion of melanocytes | 0.0317 | 1 | PIK3CA | blue |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities | Myxoid/round cell liposarcoma | 0.0128 | 1 | PIK3CA | blue |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Reproductive System Disease,Skeletal and Muscular Disorders | Metastasis to bone of breast cancer cell lines | 0.0254 | 1 | SMAD3 | blue |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Delay in initiation of growth of skeletal metastasis | 0.00642 | 1 | SMAD3 | blue |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Giant cell tumor of bone in femur | 0.00642 | 1 | H3F3A/H3F3B | blue |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Chondroblastoma in humerus | 0.00642 | 1 | H3F3A/H3F3B | blue |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Bone cancer | 0.04 | 4 | BPTF,H3F3A/H3F3B,MAP4,SMAD3 | blue |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Hyperplasia of basal epidermal cells | 0.0128 | 1 | PIK3CA | blue |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Malignant skin appendage neoplasm | 0.0128 | 1 | PIK3CA | blue |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Skin papilloma | 0.0311 | 2 | SMAD3,TRAF3IP2 | blue |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Skin appendage carcinoma | 0.0317 | 1 | PIK3CA | blue |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities,Reproductive System Disease | Intraductal papilloma | 0.0128 | 1 | PIK3CA | blue |
| Cancer,Endocrine System Disorders,Neurological Disease,Organismal Injury and Abnormalities | Benign pheochromocytoma | 0.0441 | 1 | H3F3A/H3F3B | blue |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities | Adrenal cortex carcinoma | 0.0189 | 2 | H3F3A/H3F3B,PIK3CA | blue |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities,Reproductive System Disease | Testicular seminoma | 0.0189 | 2 | PIK3C2B,PIK3CA | blue |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities,Reproductive System Disease | Malignant mixed Mullerian tumor in ovary | 0.0191 | 1 | PIK3CA | blue |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities,Reproductive System Disease | Mucinous low malignant potential tumor in ovary | 0.0317 | 1 | PIK3CA | blue |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities,Reproductive System Disease | Cervical small cell carcinoma | 0.0379 | 1 | PIK3CA | blue |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities,Reproductive System Disease,Tissue Morphology | Quantity of gonadal tumor | 0.0317 | 1 | PIK3CA | blue |
| Cancer,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Hepatobiliary system cancer | 0.00548 | 55 | ADD1,ADGRG1,AEBP1,AGO2,ANAPC16,AP1B1,ARHGEF7,ATP10D,BPTF,CD58,CEP295,CHD1L,CNST,COL4A3,CRTC3,CTNNA1,DDHD1,DIS3,DTNBP1,EIF4G3,ELOVL5,GALNT1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,LHFPL2,MICAL3,MLXIP,MPRIP,MSI2,NFATC3,PFKFB2,PGK1,PIK3CA,PIK3R5,PRUNE2,PSD4,RAB1A,RASGRP2,RPAIN,SLC2A5,SLC5A3,SP1,SPTBN1,TBC1D1,TCHP,TLE1,TMEM131L,TNR,TRAF3IP2,WDR74,YWHAH,ZDHHC23,ZNF829 | blue |
| Cancer,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Liver cancer | 0.0131 | 51 | ADD1,ADGRG1,AEBP1,AGO2,ANAPC16,AP1B1,ARHGEF7,ATP10D,BPTF,CD58,CEP295,CHD1L,COL4A3,CRTC3,CTNNA1,DIS3,DTNBP1,EIF4G3,ELOVL5,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,LHFPL2,MICAL3,MLXIP,MPRIP,MSI2,NFATC3,PFKFB2,PIK3CA,PIK3R5,PRUNE2,PSD4,RAB1A,RASGRP2,RPAIN,SLC2A5,SLC5A3,SP1,SPTBN1,TBC1D1,TCHP,TLE1,TMEM131L,TNR,TRAF3IP2,WDR74,YWHAH,ZDHHC23,ZNF829 | blue |
| Cancer,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Liver carcinoma | 0.021 | 49 | ADD1,ADGRG1,AEBP1,AGO2,ANAPC16,AP1B1,ARHGEF7,ATP10D,BPTF,CD58,CEP295,CHD1L,COL4A3,CRTC3,CTNNA1,DIS3,DTNBP1,EIF4G3,ELOVL5,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,LHFPL2,MICAL3,MLXIP,MPRIP,MSI2,NFATC3,PFKFB2,PIK3CA,PIK3R5,PRUNE2,PSD4,RASGRP2,RPAIN,SLC2A5,SLC5A3,SP1,SPTBN1,TBC1D1,TCHP,TLE1,TMEM131L,TNR,TRAF3IP2,YWHAH,ZDHHC23,ZNF829 | blue |
| Cancer,Gastrointestinal Disease,Hereditary Disorder,Organismal Injury and Abnormalities | PTEN hamartoma tumor syndrome | 0.0254 | 1 | PIK3CA | blue |
| Cancer,Gastrointestinal Disease,Immunological Disease,Organismal Injury and Abnormalities,Respiratory Disease | Tonsillar squamous cell carcinoma | 0.0128 | 1 | PIK3CA | blue |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Adenocarcinoma of the small bowel | 0.0065 | 2 | PIK3CA,SSBP2 | blue |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Cecum adenocarcinoma | 0.0108 | 10 | AKAP7,DIS3,EIF4G3,EVL,MAP4,MICAL3,NREP,PIK3CA,SMAD3,ZBTB20 | blue |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Salivary duct carcinoma in parotid gland | 0.0128 | 1 | PIK3CA | blue |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Large intestine adenocarcinoma | 0.0141 | 88 | ADD1,AEBP1,AGPAT5,AKAP7,AP1B1,AP3M2,ARHGEF7,ARMH1,ATP10D,BHLHE41,BPTF,CCDC174,CD58,CEP295,CHD1L,CHML,CNST,COL4A3,CRTC3,CTNNA1,CYFIP2,DDHD1,DEF8,DIS3,DTNBP1,ECPAS,EIF4G3,ELOVL5,EVL,FBXL20,FGD6,GALNT1,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HIP1R,ITPRIPL2,LUC7L,MAP4,MICAL3,MPRIP,MSI2,NFATC3,NREP,PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PSD4,PTPRJ,RASGRP2,RBMS1,RPL15,SLC2A5,SLC5A3,SMAD3,SNX29,SNX30,SOCS5,SP1,SPTBN1,SSBP2,ST3GAL2,STAG3,TBC1D1,TBXA2R,TCHP,TLE1,TNR,TRAF3IP2,VPREB3,WDR74,YPEL1,YWHAH,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZNF19,ZNF362,ZNF44,ZNF789 | blue |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Colorectal adenocarcinoma | 0.0152 | 51 | ADD1,AEBP1,AGPAT5,AKAP7,AP3M2,ARHGEF7,ATP10D,CCDC174,CD58,COL4A3,CYFIP2,DDHD1,DEF8,DIS3,EIF4G3,EVL,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,ITPRIPL2,MAP4,MICAL3,MPRIP,NREP,PGK1,PIK3C2B,PIK3CA,PIK3R5,PRUNE2,PTPRJ,SLC5A3,SMAD3,SNX30,SOCS5,SPTBN1,SSBP2,STAG3,TBC1D1,TNR,TRAF3IP2,VPREB3,WDR74,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZNF19,ZNF362,ZNF789 | blue |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Digestive system cancer | 0.02 | 99 | ADD1,ADGRG1,AEBP1,AGO2,AGPAT5,AKAP7,ANAPC16,AP1B1,AP3M2,ARHGEF7,ARMH1,ATP10D,BHLHE41,BPTF,CCDC174,CD58,CD79B,CEP295,CHD1L,CHML,CNST,COL4A3,CRTC3,CTNNA1,CYFIP2,DDHD1,DEF8,DIS3,DTNBP1,ECPAS,EIF4G3,ELOVL5,EVL,FBXL20,FGD6,GALNT1,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HIP1R,ITPRIPL2,LHFPL2,LUC7L,MAP4,MICAL3,MLXIP,MPRIP,MSI2,NFATC3,NREP,PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PSD4,PTPRJ,RAB1A,RASGRP2,RBMS1,RPAIN,RPL15,SLC2A5,SLC5A3,SMAD3,SNX29,SNX30,SOCS5,SP1,SPTBN1,SSBP2,ST3GAL2,STAG3,TBC1D1,TBXA2R,TCHP,TLE1,TMEM131L,TNR,TRAF3IP2,VPREB3,WDR74,YPEL1,YWHAH,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZDHHC23,ZNF19,ZNF362,ZNF44,ZNF789,ZNF829 | blue |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Colon adenocarcinoma | 0.03 | 48 | ADD1,AEBP1,AGPAT5,AKAP7,ARHGEF7,ATP10D,CCDC174,CD58,COL4A3,CYFIP2,DDHD1,DEF8,DIS3,EIF4G3,EVL,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,ITPRIPL2,MAP4,MICAL3,MPRIP,NREP,PGK1,PIK3C2B,PIK3CA,PIK3R5,PRUNE2,PTPRJ,SLC5A3,SMAD3,SNX30,SPTBN1,SSBP2,TBC1D1,TNR,TRAF3IP2,VPREB3,WDR74,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZNF19,ZNF362,ZNF789 | blue |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Gastrointestinal carcinoma | 0.0304 | 90 | ADD1,AEBP1,AGO2,AGPAT5,AKAP7,AP1B1,AP3M2,ARHGEF7,ARMH1,ATP10D,BHLHE41,BPTF,CCDC174,CD58,CEP295,CHD1L,CHML,CNST,COL4A3,CRTC3,CTNNA1,CYFIP2,DDHD1,DEF8,DIS3,DTNBP1,ECPAS,EIF4G3,ELOVL5,EVL,FBXL20,FGD6,GALNT1,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HIP1R,ITPRIPL2,LUC7L,MAP4,MICAL3,MPRIP,MSI2,NFATC3,NREP,PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PSD4,PTPRJ,RASGRP2,RBMS1,RPL15,SLC2A5,SLC5A3,SMAD3,SNX29,SNX30,SOCS5,SP1,SPTBN1,SSBP2,ST3GAL2,STAG3,TBC1D1,TBXA2R,TCHP,TLE1,TNR,TRAF3IP2,VPREB3,WDR74,YPEL1,YWHAH,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZDHHC23,ZNF19,ZNF362,ZNF44,ZNF789 | blue |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Jejunum adenocarcinoma | 0.0379 | 1 | SSBP2 | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Astrocytoma in posterior cranial fossa | 0.00642 | 1 | H3F3A/H3F3B | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Medulloblastoma in cerebral hemisphere | 0.00642 | 1 | H3F3A/H3F3B | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Neuroblastoma in autonomic ganglion | 0.00719 | 2 | CD79B,PIK3CA | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Non-brainstem pediatric glioblastoma | 0.0128 | 1 | H3F3A/H3F3B | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Pediatric diffuse intrinsic pontine glioma | 0.0128 | 1 | H3F3A/H3F3B | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Oligodendroglioma in thalamus | 0.0128 | 1 | H3F3A/H3F3B | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Astrocytoma in brainstem | 0.0129 | 2 | H3F3A/H3F3B,PIK3CA | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Oligoastrocytoma in brainstem | 0.0191 | 1 | H3F3A/H3F3B | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Ganglioglioma in cerebellum | 0.0191 | 1 | H3F3A/H3F3B | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Thalamic astrocytoma | 0.0254 | 1 | H3F3A/H3F3B | blue |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Astrocytoma in spinal cord | 0.0254 | 1 | H3F3A/H3F3B | blue |
| Cancer,Organismal Injury and Abnormalities | Mixed neoplasia | 0.00117 | 24 | AP1B1,ATP10D,CD79B,CEP295,DDHD1,ECPAS,FGD6,GLCCI1,GUCY2C,LUC7L,MICAL3,MPRIP,PCYT1A,PIK3C2B,PIK3CA,PIK3R5,PRUNE2,PSD4,RP9,SPTBN1,TBXA2R,TLE1,TNR,ZNF19 | blue |
| Cancer,Organismal Injury and Abnormalities | Incidence of tumor | 0.00535 | 82 | ADD1,ADGRG1,AEBP1,AGO2,AGPAT5,AKAP7,AP1B1,AP3M2,ARHGEF7,ATP10D,BPTF,CCDC174,CD58,CD79B,CEP295,CHML,COL4A3,CRTC3,CTNNA1,CYFIP2,DDHD1,DEF8,DIS3,ECPAS,EIF4G3,ELOVL5,EVL,FGD6,GADD45B,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HMBOX1,ITPRIPL2,LHFPL2,LUC7L,MAP4,MICAL3,MPRIP,MSI2,NFATC3,NPIPB5 (includes others),NREP,PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PTPRJ,RAB1A,RCN2,RP9,SLC2A5,SLC5A3,SMAD3,SNX30,SOCS5,SPTBN1,SSBP2,STAG3,TBC1D1,TBXA2R,TLE1,TNR,TRAF3IP2,VPREB3,WDR74,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZDHHC23,ZNF19,ZNF362,ZNF44,ZNF789,ZNF829 | blue |
| Cancer,Organismal Injury and Abnormalities | Development of malignant tumor | 0.00621 | 79 | ADD1,ADGRG1,AEBP1,AGO2,AGPAT5,AKAP7,AP1B1,AP3M2,ARHGEF7,ATP10D,BPTF,CCDC174,CD58,CD79B,CEP295,CHML,COL4A3,CRTC3,CTNNA1,CYFIP2,DDHD1,DEF8,DIS3,ECPAS,EIF4G3,ELOVL5,EVL,FGD6,GADD45B,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HMBOX1,ITPRIPL2,LHFPL2,LUC7L,MAP4,MICAL3,MPRIP,MSI2,NPIPB5 (includes others),NREP,PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PTPRJ,RAB1A,RCN2,RP9,SLC5A3,SMAD3,SNX30,SOCS5,SPTBN1,SSBP2,STAG3,TBC1D1,TBXA2R,TLE1,TNR,TRAF3IP2,VPREB3,WDR74,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZNF19,ZNF362,ZNF44,ZNF789,ZNF829 | blue |
| Cancer,Organismal Injury and Abnormalities | Frequency of tumor | 0.00638 | 80 | ADD1,ADGRG1,AEBP1,AGO2,AGPAT5,AKAP7,AP1B1,AP3M2,ARHGEF7,ATP10D,BPTF,CCDC174,CD58,CD79B,CEP295,CHML,COL4A3,CRTC3,CTNNA1,CYFIP2,DDHD1,DEF8,DIS3,ECPAS,EIF4G3,ELOVL5,EVL,FGD6,GADD45B,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HMBOX1,ITPRIPL2,LHFPL2,LUC7L,MAP4,MICAL3,MPRIP,MSI2,NFATC3,NPIPB5 (includes others),NREP,PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PTPRJ,RAB1A,RCN2,RP9,SLC5A3,SMAD3,SNX30,SOCS5,SPTBN1,SSBP2,STAG3,TBC1D1,TBXA2R,TLE1,TNR,TRAF3IP2,VPREB3,WDR74,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZNF19,ZNF362,ZNF44,ZNF789,ZNF829 | blue |
| Cancer,Organismal Injury and Abnormalities | Development of carcinoma | 0.0123 | 77 | ADD1,AEBP1,AGO2,AGPAT5,AKAP7,AP1B1,AP3M2,ARHGEF7,ATP10D,CCDC174,CD58,CD79B,CEP295,CHML,COL4A3,CRTC3,CTNNA1,CYFIP2,DDHD1,DEF8,DIS3,ECPAS,EIF4G3,ELOVL5,EVL,FGD6,GADD45B,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HMBOX1,ITPRIPL2,LHFPL2,LUC7L,MAP4,MICAL3,MPRIP,MSI2,NPIPB5 (includes others),NREP,PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PTPRJ,RAB1A,RCN2,RP9,SLC5A3,SMAD3,SNX30,SOCS5,SPTBN1,SSBP2,STAG3,TBC1D1,TBXA2R,TLE1,TNR,TRAF3IP2,VPREB3,WDR74,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZNF19,ZNF362,ZNF44,ZNF789,ZNF829 | blue |
| Cancer,Organismal Injury and Abnormalities | Tumorigenesis of adenosquamous carcinoma | 0.0191 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities | Adenocarcinoma | 0.0198 | 99 | ADD1,AEBP1,AGO2,AGPAT5,AKAP7,AP1B1,AP3M2,ARHGEF7,ARMH1,ATP10D,BHLHE41,BPTF,CCDC174,CD58,CD79B,CEP295,CHD1L,CHML,CNST,COL4A3,CRTC3,CTNNA1,CYFIP2,DDHD1,DEF8,DIS3,DTNBP1,ECPAS,EIF4G3,ELOVL5,EVL,FBXL20,FGD6,GADD45B,GALNT1,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HIP1R,HMBOX1,ITPRIPL2,LHFPL2,LUC7L,MAP4,MICAL3,MPRIP,MSI2,NFATC3,NPIPB5 (includes others),NREP,PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PSD4,PTPRJ,RAB1A,RASGRP2,RBMS1,RCN2,RP9,RPL15,SLC2A5,SLC5A3,SMAD3,SNX29,SNX30,SOCS5,SP1,SPTBN1,SSBP2,ST3GAL2,STAG3,TBC1D1,TBXA2R,TCHP,TLE1,TNR,TRAF3IP2,VPREB3,WDR74,YPEL1,YWHAH,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZDHHC23,ZNF19,ZNF362,ZNF44,ZNF789,ZNF829 | blue |
| Cancer,Organismal Injury and Abnormalities | Abdominal carcinoma | 0.0238 | 102 | ADD1,ADGRG1,AEBP1,AGO2,AGPAT5,AKAP7,ANAPC16,AP1B1,AP3M2,ARHGEF7,ARMH1,ATP10D,BHLHE41,BPTF,CCDC174,CD58,CD79B,CEP295,CHD1L,CHML,CNST,COL4A3,CRTC3,CTNNA1,CYFIP2,DDHD1,DEF8,DIS3,DTNBP1,ECPAS,EIF4G3,ELOVL5,EVL,FBXL20,FGD6,GALNT1,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HIP1R,HMBOX1,ITPRIPL2,LHFPL2,LUC7L,MAP4,MICAL3,MLXIP,MPRIP,MSI2,NFATC3,NPIPB5 (includes others),NREP,PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PSD4,PTPRJ,RAB1A,RASGRP2,RBMS1,RP9,RPAIN,RPL15,SLC2A5,SLC5A3,SMAD3,SNX29,SNX30,SOCS5,SP1,SPTBN1,SSBP2,ST3GAL2,STAG3,TBC1D1,TBXA2R,TCHP,TLE1,TMEM131L,TNR,TRAF3IP2,VPREB3,WDR74,YPEL1,YWHAH,ZBTB20,ZBTB44,ZC2HC1A,ZC3H15,ZDHHC23,ZNF19,ZNF362,ZNF44,ZNF789,ZNF829 | blue |
| Cancer,Organismal Injury and Abnormalities | Cancer of head | 0.0247 | 19 | AKAP7,AP1B1,CEP295,COL4A3,FGD6,H3F3A/H3F3B,MICAL3,MPRIP,MSI2,NFATC3,PIK3C2B,PIK3CA,RAB1A,SSBP2,TNR,ZBTB20,ZDHHC23,ZNF362,ZNF44 | blue |
| Cancer,Organismal Injury and Abnormalities | Genitourinary tumor | 0.0312 | 77 | ADGRG1,AEBP1,AGO2,AGPAT5,AP1B1,AP3M2,ARHGEF7,ARMH1,ATP10D,BPTF,CCDC174,CD79B,CEP295,CHML,CRTC3,CTNNA1,CYFIP2,DDHD1,DIS3,ECPAS,EIF4G3,ELOVL5,FBXL20,FGD6,GADD45B,GALNT1,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HIP1R,HMBOX1,LHFPL2,LUC7L,MAP4,MICAL3,MPRIP,NFATC3,NPIPB5 (includes others),PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PSD4,PTPRJ,RAB1A,RASGRP2,RBMS1,RP9,SLC2A5,SLC5A3,SMAD3,SOCS5,SPTBN1,SSBP1,SSBP2,STAG3,TBC1D1,TBXA2R,TLE1,TNR,WDR74,YWHAH,ZBTB20,ZBTB44,ZC3H15,ZDHHC23,ZNF19,ZNF362,ZNF44,ZNF789,ZNF829 | blue |
| Cancer,Organismal Injury and Abnormalities | Development of mesenchymal tumor | 0.0317 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities | Adenocarcinoma with squamous metaplasia | 0.0317 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities | Metastatic potential of adenocarcinoma cell lines | 0.0317 | 1 | MSI2 | blue |
| Cancer,Organismal Injury and Abnormalities | Malignant genitourinary solid tumor | 0.0317 | 76 | ADGRG1,AEBP1,AGO2,AGPAT5,AP1B1,AP3M2,ARHGEF7,ARMH1,ATP10D,BPTF,CCDC174,CD79B,CEP295,CHML,CRTC3,CTNNA1,CYFIP2,DDHD1,DIS3,ECPAS,EIF4G3,ELOVL5,FBXL20,FGD6,GADD45B,GALNT1,GLCCI1,GUCY2C,H3F3A/H3F3B,HEATR5B,HEXDC,HIP1R,HMBOX1,LHFPL2,LUC7L,MAP4,MICAL3,MPRIP,NFATC3,NPIPB5 (includes others),PCYT1A,PFKFB2,PGK1,PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PSD4,PTPRJ,RAB1A,RASGRP2,RBMS1,RP9,SLC5A3,SMAD3,SOCS5,SPTBN1,SSBP1,SSBP2,STAG3,TBC1D1,TBXA2R,TLE1,TNR,WDR74,YWHAH,ZBTB20,ZBTB44,ZC3H15,ZDHHC23,ZNF19,ZNF362,ZNF44,ZNF789,ZNF829 | blue |
| Cancer,Organismal Injury and Abnormalities,Renal and Urological Disease | Hyperplasia of mesangial cells | 0.00584 | 2 | COL4A3,TRAF3IP2 | blue |
| Cancer,Organismal Injury and Abnormalities,Renal and Urological Disease | Growth of bladder tumor | 0.0191 | 1 | GALNT1 | blue |
| Cancer,Organismal Injury and Abnormalities,Renal and Urological Disease | Renal cancer | 0.0209 | 17 | ARHGEF7,CD79B,ELOVL5,LHFPL2,MICAL3,NPIPB5 (includes others),PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PSD4,RAB1A,SLC5A3,SPTBN1,TBC1D1,TNR | blue |
| Cancer,Organismal Injury and Abnormalities,Renal and Urological Disease | Transitional-cell carcinoma in renal pelvis | 0.0254 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Renal and Urological Disease | Transitional-cell carcinoma in urinary tract | 0.0317 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Renal and Urological Disease | Low grade urinary bladder neoplasm | 0.0379 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | ER positive HER2 negative PIK3CA mutation positive luminal breast cancer | 0.0191 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Usual ductal breast hyperplasia | 0.0191 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Endometrial carcinoma type I | 0.0254 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Teratoma in reproductive tract | 0.0254 | 1 | FGD6 | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Mixed endometrioid serous endometrial carcinoma | 0.0317 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Mammary fibroadenoma | 0.0317 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Luminal A breast carcinoma | 0.0317 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | HER2 negative hormone receptor positive PI3K mutation positive breast cancer | 0.0379 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Germ cell tumor | 0.0395 | 3 | FGD6,PIK3C2B,PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Teratoma | 0.0439 | 2 | FGD6,PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Gleason sum score 7-9 prostate cancer | 0.0441 | 1 | AGO2 | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Luminal B breast carcinoma | 0.0441 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease,Tissue Morphology,Tumor Morphology | Induction of breast carcinoma | 0.0254 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease,Tumor Morphology | Metastatic luminal B-like breast carcinoma | 0.0128 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease,Tumor Morphology | Regression of breast adenocarcinoma | 0.0379 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Acinar-cell carcinoma in left upper lobe of lung | 0.0191 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Lung sarcomatoid carcinoma | 0.0191 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Pulmonary metastasis | 0.0293 | 4 | MAP4,PIK3CA,PTPRJ,SSBP1 | blue |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Lung metastasis of tumor cell lines | 0.0352 | 2 | MAP4,SSBP1 | blue |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Mucinous lung adenocarcinoma | 0.0379 | 1 | PIK3CA | blue |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease,Tissue Morphology | Quantity of lung adenocarcinoma | 0.0128 | 1 | SSBP2 | blue |
| Cancer,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Sclerosing rhabdomyosarcoma | 0.0128 | 1 | PIK3CA | blue |
| Carbohydrate Metabolism | Metabolism of carbohydrate | 0.0086 | 13 | AGPAT5,PCYT1A,PFKFB2,PGK1,PIGL,PIK3C2B,PIK3CA,SLC2A5,SLC5A3,SMAD3,ST3GAL2,TBXA2R,ZBTB20 | blue |
| Carbohydrate Metabolism | Accumulation of carbohydrate | 0.0226 | 4 | PIK3C2B,PIK3CA,PIK3R5,SP1 | blue |
| Carbohydrate Metabolism | Glycolysis | 0.0249 | 4 | NCF1,PFKFB2,PGK1,ZBTB20 | blue |
| Carbohydrate Metabolism | Metabolism of fructose-2,6-diphosphate | 0.0317 | 1 | PFKFB2 | blue |
| Carbohydrate Metabolism | Quantity of myo-inositol | 0.0379 | 1 | SLC5A3 | blue |
| Carbohydrate Metabolism,Cellular Function and Maintenance,Molecular Transport,Small Molecule Biochemistry | Transport of D-glucose | 0.0205 | 4 | PIK3CA,SLC2A5,SLC5A3,TBC1D1 | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Accumulation of phosphoinositide | 0.00214 | 3 | PIK3C2B,PIK3CA,PIK3R5 | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Accumulation of phosphatidylinositol-3,4,5-triphosphate | 0.00791 | 2 | PIK3CA,PIK3R5 | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Quantity of 1-oleoyl lysophosphatidylcholine | 0.0128 | 1 | SMAD3 | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Accumulation of phosphatidylinositol-3-phosphate | 0.0191 | 1 | PIK3C2B | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Accumulation of phosphatidylinositol 3,4-diphosphate | 0.0441 | 1 | PIK3CA | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Phosphorylation of phosphatidylinositol phosphate | 0.00258 | 2 | PIK3C2B,PIK3CA | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Binding of phosphatidylinositol 3,5-diphosphate | 0.0191 | 1 | HIP1R | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Binding of phosphatidylinositol-3-phosphate | 0.0254 | 1 | HIP1R | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Binding of phosphatidylinositol 3,4-diphosphate | 0.0254 | 1 | HIP1R | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Phosphorylation of phosphatidylinositol 4-phosphate | 0.0317 | 1 | PIK3C2B | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Phosphorylation of phosphatidylinositol-3,4,5-triphosphate | 0.0317 | 1 | PIK3CA | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Binding of phosphatidylinositol-3,4,5-triphosphate | 0.0379 | 1 | HIP1R | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Phosphorylation of phosphatidylinositol 4,5-diphosphate | 0.0379 | 1 | PIK3CA | blue |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Binding of phosphatidylinositol 4,5-diphosphate | 0.0441 | 1 | HIP1R | blue |
| Carbohydrate Metabolism,Molecular Transport | Transport of carbohydrate | 0.0164 | 5 | PCYT1A,PIK3CA,SLC2A5,SLC5A3,TBC1D1 | blue |
| Carbohydrate Metabolism,Molecular Transport | Quantity of glycogen | 0.0338 | 3 | ELOVL5,PCYT1A,ZBTB20 | blue |
| Carbohydrate Metabolism,Molecular Transport,Small Molecule Biochemistry | Absorption of D-fructose | 0.00642 | 1 | SLC2A5 | blue |
| Carbohydrate Metabolism,Molecular Transport,Small Molecule Biochemistry | Transport of DL-fructose | 0.0128 | 1 | SLC2A5 | blue |
| Carbohydrate Metabolism,Molecular Transport,Small Molecule Biochemistry | Transport of D-fructose | 0.0254 | 1 | SLC2A5 | blue |
| Carbohydrate Metabolism,Molecular Transport,Small Molecule Biochemistry | Uptake of D-hexose | 0.0289 | 5 | CRTC3,MLXIP,PFKFB2,PIK3CA,SLC2A5 | blue |
| Carbohydrate Metabolism,Molecular Transport,Small Molecule Biochemistry | Transport of myo-inositol | 0.0317 | 1 | SLC5A3 | blue |
| Carbohydrate Metabolism,Small Molecule Biochemistry | Metabolism of D-glucose | 0.0232 | 3 | PFKFB2,PIK3CA,ZBTB20 | blue |
| Carbohydrate Metabolism,Small Molecule Biochemistry | Catabolism of D-glucose | 0.0379 | 1 | PFKFB2 | blue |
| Carbohydrate Metabolism,Small Molecule Biochemistry | Metabolism of myo-inositol | 0.0441 | 1 | SLC5A3 | blue |
| Cardiovascular Disease,Cardiovascular System Development and Function,Cell Morphology,Cellular Function and Maintenance,Organismal Injury and Abnormalities,Tissue Morphology | Permeability of endothelial cells | 0.00953 | 3 | ARHGEF7,PIK3CA,PTPRJ | blue |
| Cardiovascular Disease,Cardiovascular System Development and Function,Cell Morphology,Cellular Function and Maintenance,Organismal Injury and Abnormalities,Tissue Morphology | Permeability of vascular endothelial cells | 0.0338 | 2 | PIK3CA,PTPRJ | blue |
| Cardiovascular Disease,Cardiovascular System Development and Function,Cell Morphology,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders,Skeletal and Muscular System Development and Function,Tissue Morphology | Hypertrophy of cardiac muscle | 0.0278 | 4 | DTNBP1,NCF1,NFATC3,RAB1A | blue |
| Cardiovascular Disease,Cardiovascular System Development and Function,Connective Tissue Disorders,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Tissue Morphology | Abnormal morphology of pericardial cavity | 0.00178 | 2 | PTPRJ,SMAD3 | blue |
| Cardiovascular Disease,Cardiovascular System Development and Function,Connective Tissue Disorders,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Tissue Morphology | Abnormal morphology of pericardium | 0.0272 | 3 | NFATC3,PTPRJ,SMAD3 | blue |
| Cardiovascular Disease,Cardiovascular System Development and Function,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities | Hypertrophy of heart | 0.00725 | 8 | ADGRG1,DTNBP1,GUCY2C,NCF1,NFATC3,PIK3CA,RAB1A,SMAD3 | blue |
| Cardiovascular Disease,Cardiovascular System Development and Function,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities | Pressure overload hypertrophy | 0.0317 | 1 | ADGRG1 | blue |
| Cardiovascular Disease,Cardiovascular System Development and Function,Organ Morphology,Organismal Injury and Abnormalities,Renal and Urological Disease,Renal and Urological System Development and Function,Tissue Morphology | Abnormal morphology of glomerular capillary | 0.00945 | 2 | COL4A3,TRAF3IP2 | blue |
| Cardiovascular Disease,Cardiovascular System Development and Function,Organismal Development,Organismal Injury and Abnormalities,Tissue Morphology | Abnormal morphology of descending thoracic aorta | 0.0317 | 1 | NCF1 | blue |
| Cardiovascular Disease,Connective Tissue Disorders,Developmental Disorder,Hereditary Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Loeys-Dietz syndrome type 3 | 0.0128 | 1 | SMAD3 | blue |
| Cardiovascular Disease,Dermatological Diseases and Conditions,Developmental Disorder,Hereditary Disorder,Neurological Disease,Ophthalmic Disease,Organismal Injury and Abnormalities | CHIME syndrome | 0.00642 | 1 | PIGL | blue |
| Cardiovascular Disease,Developmental Disorder,Neurological Disease,Organismal Injury and Abnormalities | Megalencephaly-capillary malformation-polymicrogyria syndrome | 0.0191 | 1 | PIK3CA | blue |
| Cardiovascular Disease,Hereditary Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Familial hypertrophic cardiomyopathy-4 | 0.0317 | 1 | NCF1 | blue |
| Cardiovascular Disease,Organismal Injury and Abnormalities | Fibrosis of heart | 0.0106 | 5 | CTNNA1,NCF1,PIK3CA,SMAD3,TBXA2R | blue |
| Cardiovascular Disease,Organismal Injury and Abnormalities | Injury of heart tissue | 0.0128 | 1 | PIK3CA | blue |
| Cardiovascular Disease,Organismal Injury and Abnormalities | Fibrosis of heart ventricle | 0.0148 | 2 | CTNNA1,TBXA2R | blue |
| Cardiovascular Disease,Organismal Injury and Abnormalities | Microangiopathy | 0.0226 | 4 | COL4A3,PIK3C2B,PIK3CA,TRAF3IP2 | blue |
| Cardiovascular Disease,Organismal Injury and Abnormalities | Coronary artery disease | 0.0256 | 6 | AGPAT5,BPTF,EIF4G3,SMAD3,SNX29,TBXA2R | blue |
| Cardiovascular Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Interstitial fibrosis of myocardium | 0.0128 | 1 | NCF1 | blue |
| Cardiovascular System Development and Function | Adhesion of cremasteric venule | 0.0128 | 1 | GALNT1 | blue |
| Cardiovascular System Development and Function,Cell Morphology | Ruffling of vascular endothelial cells | 0.0317 | 1 | NCF1 | blue |
| Cardiovascular System Development and Function,Cell Morphology,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Organismal Development,Tissue Development | Morphogenesis of vascular endothelial cells | 0.00945 | 2 | PIK3C2B,PTPRJ | blue |
| Cardiovascular System Development and Function,Cell Morphology,Embryonic Development,Organ Development,Organ Morphology,Organismal Development,Skeletal and Muscular System Development and Function,Tissue Development,Tissue Morphology | Surface area of ventricular myocytes | 0.0317 | 1 | DTNBP1 | blue |
| Cardiovascular System Development and Function,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Organismal Development,Tissue Development | Cell proliferation of vascular endothelial cells | 0.0425 | 4 | PIK3CA,PTPRJ,SP1,TBXA2R | blue |
| Cardiovascular System Development and Function,Cellular Development,Embryonic Development,Organismal Development,Tissue Development | Differentiation of mesoangioblast | 0.0128 | 1 | BHLHE41 | blue |
| Cardiovascular System Development and Function,Cellular Movement | Migration of pulmonary artery endothelial cells | 0.0254 | 1 | SMAD3 | blue |
| Cardiovascular System Development and Function,Organismal Development,Tissue Morphology | Vasodilation of carotid artery | 0.0254 | 1 | ARHGEF7 | blue |
| Cardiovascular System Development and Function,Tissue Morphology | Thickness of pulmonary artery | 0.0128 | 1 | NFATC3 | blue |
| Cardiovascular System Development and Function,Tissue Morphology | Diameter of arteriole | 0.0379 | 1 | NCF1 | blue |
| Cell Cycle | Delay in initiation of G2/M phase of myeloma cell lines | 0.00642 | 1 | TBXA2R | blue |
| Cell Cycle | Senescence of calvarial cells | 0.00642 | 1 | NCF1 | blue |
| Cell Cycle | Arrest in G2/M phase of bone marrow cells | 0.0191 | 1 | GADD45B | blue |
| Cell Cycle | Arrest in G1 phase of epithelial cells | 0.0441 | 1 | SP1 | blue |
| Cell Cycle,DNA Replication, Recombination, and Repair | Homologous pairing | 0.0352 | 2 | EVL,STAG3 | blue |
| Cell Cycle,DNA Replication, Recombination, and Repair | Homologous pairing of DNA | 0.0379 | 1 | EVL | blue |
| Cell Cycle,DNA Replication, Recombination, and Repair | DNA recombination | 0.04 | 4 | CD79B,EVL,RPAIN,STAG3 | blue |
| Cell Cycle,Embryonic Development | Cell division of neuroretina cells | 0.0254 | 1 | PIK3CA | blue |
| Cell Cycle,Gene Expression | Binding of PAX8 binding site | 0.00642 | 1 | SMAD3 | blue |
| Cell Cycle,Gene Expression | Binding of E box motif | 0.0138 | 2 | SMAD3,SSBP2 | blue |
| Cell Cycle,Gene Expression | Binding of CCAAT element | 0.0317 | 1 | SP1 | blue |
| Cell Cycle,Hematological System Development and Function | Entry into cell cycle progression of T lymphocytes | 0.0441 | 1 | SMAD3 | blue |
| Cell Death and Survival | Survival of suprabasal cells | 0.0128 | 1 | PIK3CA | blue |
| Cell Death and Survival | Killing of leukemia cell lines | 0.0148 | 2 | PIK3C2B,SP1 | blue |
| Cell Death and Survival | Mitotic catastrophe of colorectal cancer cell lines | 0.0191 | 1 | YWHAH | blue |
| Cell Death and Survival | Anoikis of fibroblasts | 0.0254 | 1 | PIK3CA | blue |
| Cell Death and Survival | Mitotic catastrophe of cervical cancer cell lines | 0.0379 | 1 | YWHAH | blue |
| Cell Death and Survival,Cell Signaling | Activation of caspase | 0.00953 | 3 | COL4A3,HIP1R,SMAD3 | blue |
| Cell Death and Survival,Cellular Compromise | Cytotoxicity of epithelial cell lines | 0.0128 | 1 | ADGRG1 | blue |
| Cell Death and Survival,Cellular Compromise | Cytotoxicity of kidney cell lines | 0.0128 | 1 | ADGRG1 | blue |
| Cell Death and Survival,Cellular Compromise | Cytotoxicity of embryonic cell lines | 0.0128 | 1 | ADGRG1 | blue |
| Cell Death and Survival,Cellular Compromise | Cytotoxicity of ovarian cancer cell lines | 0.0254 | 1 | RASGRP2 | blue |
| Cell Death and Survival,Cellular Compromise | Cytotoxicity of peripheral blood natural killer cells | 0.0441 | 1 | CD58 | blue |
| Cell Death and Survival,Cellular Compromise,Neurological Disease,Tissue Morphology | Degeneration of myelin figure | 0.0128 | 1 | RAB1A | blue |
| Cell Death and Survival,Digestive System Development and Function | Survival of intestinal cell lines | 0.0254 | 1 | PIK3CA | blue |
| Cell Death and Survival,Embryonic Development | Cell death of embryonic stem cells | 0.00452 | 3 | AGO2,H3F3A/H3F3B,SP1 | blue |
| Cell Death and Survival,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Apoptosis of hepatocytes | 0.0185 | 4 | GADD45B,NCF1,SMAD3,SPTBN1 | blue |
| Cell Death and Survival,Hematological System Development and Function | Survival of marginal-zone B lymphocytes | 0.0191 | 1 | TRAF3IP2 | blue |
| Cell Death and Survival,Hematological System Development and Function | Survival of transitional B lymphocytes | 0.0191 | 1 | TRAF3IP2 | blue |
| Cell Morphology | Apico-basal polarity of breast cancer cell lines | 0.00642 | 1 | PSD4 | blue |
| Cell Morphology | Polarization of fibroblast cell lines | 0.0191 | 1 | PIK3CA | blue |
| Cell Morphology | Size of lipid droplets | 0.0259 | 2 | CRTC3,PCYT1A | blue |
| Cell Morphology | Elongation of lens fiber cells | 0.0441 | 1 | COL4A3 | blue |
| Cell Morphology,Cellular Assembly and Organization | Size of Golgi stacks | 0.00642 | 1 | RAB1A | blue |
| Cell Morphology,Cellular Assembly and Organization | Size of dense-core vesicles | 0.0254 | 1 | DTNBP1 | blue |
| Cell Morphology,Cellular Assembly and Organization,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Embryonic Development,Nervous System Development and Function,Organismal Development,Tissue Development | Formation of dendritic spines | 0.000522 | 4 | ARHGEF7,DTNBP1,EIF4G3,TNR | blue |
| Cell Morphology,Cellular Function and Maintenance | Autophagy of tumor cell lines | 0.0346 | 4 | FBXL20,PIK3CA,RAB1A,TCHP | blue |
| Cell Morphology,Cellular Function and Maintenance,DNA Replication, Recombination, and Repair | Double-stranded DNA break repair of epithelial cells | 0.0191 | 1 | SMAD3 | blue |
| Cell Morphology,Cellular Movement | Cell spreading of neuroblastoma cell lines | 0.0254 | 1 | MPRIP | blue |
| Cell Morphology,Connective Tissue Development and Function,Connective Tissue Disorders,Organismal Injury and Abnormalities,Tissue Morphology | Abnormal morphology of adipocytes | 0.0259 | 2 | AEBP1,CRTC3 | blue |
| Cell Morphology,Developmental Disorder,Organ Morphology,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders,Skeletal and Muscular System Development and Function,Tissue Morphology | Hypertrophy of plantaris muscle | 0.0128 | 1 | ADGRG1 | blue |
| Cell Morphology,Embryonic Development | Polarization of embryonic cell lines | 0.0254 | 1 | PIK3CA | blue |
| Cell Morphology,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Tissue Morphology | Morphology of demarcation membrane systems | 0.0128 | 1 | SP1 | blue |
| Cell Morphology,Hematological System Development and Function,Inflammatory Response,Tissue Morphology | Morphology of blood platelets | 0.0235 | 2 | ADD1,TBXA2R | blue |
| Cell Morphology,Hematopoiesis | Morphology of hematopoietic progenitor cells | 0.0268 | 4 | CD79B,PTPRJ,SP1,TRAF3IP2 | blue |
| Cell Morphology,Hematopoiesis,Humoral Immune Response,Immunological Disease,Lymphoid Tissue Structure and Development | Abnormal morphology of pre-B lymphocytes | 0.000415 | 3 | CD79B,PTPRJ,TRAF3IP2 | blue |
| Cell Morphology,Hematopoiesis,Humoral Immune Response,Immunological Disease,Lymphoid Tissue Structure and Development | Abnormal morphology of transitional B lymphocytes | 0.000602 | 2 | PTPRJ,TRAF3IP2 | blue |
| Cell Morphology,Organ Morphology,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders,Skeletal and Muscular System Development and Function,Tissue Morphology | Muscular hypertrophy | 0.0184 | 5 | ADGRG1,DTNBP1,NCF1,NFATC3,RAB1A | blue |
| Cell Morphology,Organ Morphology,Skeletal and Muscular System Development and Function,Tissue Morphology | Area of vascular smooth muscle cells | 0.00642 | 1 | MPRIP | blue |
| Cell Morphology,Organ Morphology,Skeletal and Muscular System Development and Function,Tissue Morphology | Morphology of muscle cells | 0.0101 | 8 | ADGRG1,DTNBP1,MPRIP,NCF1,NFATC3,PIK3CA,RAB1A,SPTBN1 | blue |
| Cell Morphology,Organ Morphology,Skeletal and Muscular System Development and Function,Tissue Morphology | Area of muscle cells | 0.0138 | 2 | DTNBP1,MPRIP | blue |
| Cell Signaling | Second-messenger-mediated signaling | 0.0272 | 2 | PIK3CA,TBXA2R | blue |
| Cell-mediated Immune Response,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Proliferation of T lymphoblasts | 0.0254 | 1 | NFATC3 | blue |
| Cell-mediated Immune Response,Cellular Movement,Hematological System Development and Function,Immune Cell Trafficking | Transendothelial migration of T lymphoblasts | 0.0128 | 1 | PIK3CA | blue |
| Cell-To-Cell Signaling and Interaction | Binding of central nervous system cells | 0.00945 | 2 | ADGRG1,TNR | blue |
| Cell-To-Cell Signaling and Interaction | Penetration of adenocarcinoma cells | 0.0128 | 1 | SMAD3 | blue |
| Cell-To-Cell Signaling and Interaction | Adhesion of thymic epithelial cells | 0.0254 | 1 | CD58 | blue |
| Cell-To-Cell Signaling and Interaction | Adhesion of keratinocyte cancer cell lines | 0.0441 | 1 | ADD1 | blue |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization | Targeting of plasma membrane | 0.00642 | 1 | AKAP7 | blue |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization,Cellular Function and Maintenance | Organization of tight junctions | 0.0191 | 1 | CTNNA1 | blue |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization,Cellular Function and Maintenance | Organization of intercellular junctions | 0.0362 | 3 | CTNNA1,SMAD3,TNR | blue |
| Cell-To-Cell Signaling and Interaction,Cellular Function and Maintenance,Nervous System Development and Function | Discharge of neurons | 0.0379 | 1 | SLC5A3 | blue |
| Cell-To-Cell Signaling and Interaction,Cellular Growth and Proliferation,Hematological System Development and Function | Stimulation of T-cell hybrid cells | 0.0317 | 1 | SPTBN1 | blue |
| Cell-To-Cell Signaling and Interaction,Cellular Growth and Proliferation,Nervous System Development and Function | Excitation of neocortical neurons | 0.00642 | 1 | DTNBP1 | blue |
| Cell-To-Cell Signaling and Interaction,Cellular Growth and Proliferation,Nervous System Development and Function | Excitation of interneurons | 0.0191 | 1 | DTNBP1 | blue |
| Cell-To-Cell Signaling and Interaction,Connective Tissue Disorders,Inflammatory Response,Organismal Injury and Abnormalities | Inflammation of calvarial cells | 0.00642 | 1 | NCF1 | blue |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response,Nervous System Development and Function | Binding of microglia | 0.0441 | 1 | TNR | blue |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Immune Cell Trafficking,Nervous System Development and Function | Adhesion of microglia | 0.0128 | 1 | TNR | blue |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Inflammatory Response | Antibody-dependent cell-mediated cytotoxicity of natural killer cells | 0.0191 | 1 | SMAD3 | blue |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Inflammatory Response,Organismal Functions | Activation of blood platelets | 0.0218 | 4 | PIK3CA,PIK3R5,PTPRJ,TBXA2R | blue |
| Cell-To-Cell Signaling and Interaction,Hepatic System Development and Function | Adhesion of hepatocytes | 0.0379 | 1 | SMAD3 | blue |
| Cell-To-Cell Signaling and Interaction,Inflammatory Response | TH1 immune response of lymph node cells | 0.00642 | 1 | NCF1 | blue |
| Cell-To-Cell Signaling and Interaction,Nervous System Development and Function | Conduction of neuroglia | 0.00642 | 1 | TNR | blue |
| Cell-To-Cell Signaling and Interaction,Nervous System Development and Function | Firing of interneurons | 0.0191 | 1 | DTNBP1 | blue |
| Cell-To-Cell Signaling and Interaction,Nervous System Development and Function | Adhesion of cerebellar granule cell | 0.0191 | 1 | ADGRG1 | blue |
| Cellular Assembly and Organization | Targeting of cellular membrane | 0.000122 | 2 | AKAP7,NCF1 | blue |
| Cellular Assembly and Organization | Association of clathrin-coated vesicles | 0.00642 | 1 | HIP1R | blue |
| Cellular Assembly and Organization | Organization of cellular membrane | 0.0181 | 6 | CTNNA1,HIP1R,SPTBN1,TBC1D1,TNR,YWHAH | blue |
| Cellular Assembly and Organization | Quantity of collagen fibrils | 0.0317 | 1 | SMAD3 | blue |
| Cellular Assembly and Organization | Quantity of GW body | 0.0379 | 1 | AGO2 | blue |
| Cellular Assembly and Organization | Nucleation of filaments | 0.038 | 2 | ARHGEF7,CYFIP2 | blue |
| Cellular Assembly and Organization,Cellular Compromise | Disruption of Golgi spectrin skeletons | 0.00642 | 1 | SPTBN1 | blue |
| Cellular Assembly and Organization,Cellular Function and Maintenance | Formation of artificial clathrin cages | 0.00462 | 2 | AP1B1,HIP1R | blue |
| Cellular Assembly and Organization,Cellular Function and Maintenance,Cellular Movement,Nervous System Development and Function | Anterograde axonal transport | 0.0158 | 2 | AP3M2,DTNBP1 | blue |
| Cellular Assembly and Organization,Cellular Function and Maintenance,Protein Synthesis | Polymerization of actin | 0.0366 | 2 | EVL,PIK3CA | blue |
| Cellular Assembly and Organization,DNA Replication, Recombination, and Repair | Formation of centromeric heterochromatin | 0.0191 | 1 | H3F3A/H3F3B | blue |
| Cellular Assembly and Organization,Nervous System Development and Function | Assembly of axon initial segments | 0.0191 | 1 | SPTBN1 | blue |
| Cellular Compromise | Disorganization of mitochondria | 0.0317 | 1 | DDHD1 | blue |
| Cellular Compromise,Organismal Injury and Abnormalities | Degeneration of oocytes | 0.0379 | 1 | SMAD3 | blue |
| Cellular Development | Transition of pulmonary fibroblasts | 0.00642 | 1 | AEBP1 | blue |
| Cellular Development | Initiation of differentiation of neuroblastoma cell lines | 0.0128 | 1 | PCYT1A | blue |
| Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation | Assembly of mural cells | 0.0128 | 1 | SMAD3 | blue |
| Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation | Assembly of cells | 0.0347 | 7 | COL4A3,PIK3C2B,PIK3CA,PTPRJ,SMAD3,SP1,TBXA2R | blue |
| Cellular Development,Cellular Growth and Proliferation,Connective Tissue Development and Function,Embryonic Development,Skeletal and Muscular System Development and Function,Tissue Development | Chondrogenesis of embryonic cell lines | 0.0317 | 1 | NFATC3 | blue |
| Cellular Development,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Humoral Immune Response,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Formation of Ab-secreting B cells | 0.0317 | 1 | SMAD3 | blue |
| Cellular Development,Cellular Growth and Proliferation,Organ Development | Proliferation of enterocytes | 0.0223 | 2 | GUCY2C,NFATC3 | blue |
| Cellular Development,Cellular Growth and Proliferation,Reproductive System Development and Function | Proliferation of gonadal cell lines | 0.019 | 3 | COL4A3,PCYT1A,PTPRJ | blue |
| Cellular Development,Connective Tissue Development and Function,Embryonic Development,Organismal Development,Tissue Development | Differentiation of adipose mesenchymal stem cells | 0.0128 | 1 | SMAD3 | blue |
| Cellular Development,Nervous System Development and Function,Tissue Development | Initiation of differentiation of neurons | 0.0191 | 1 | PCYT1A | blue |
| Cellular Development,Renal and Urological System Development and Function,Tissue Development | Epithelial-mesenchymal transition of renal tubular epithelial cells | 0.0191 | 1 | SMAD3 | blue |
| Cellular Function and Maintenance,Hematological System Development and Function,Hematopoiesis,Humoral Immune Response | Progression of pro-B lymphocytes | 0.00642 | 1 | CD79B | blue |
| Cellular Function and Maintenance,Skeletal and Muscular System Development and Function | Respiration of muscle cells | 0.0379 | 1 | CRTC3 | blue |
| Cellular Growth and Proliferation | Clonogenicity of mesothelioma cell lines | 0.00642 | 1 | SP1 | blue |
| Cellular Growth and Proliferation | Clonogenicity of lymphoma cell lines | 0.0128 | 1 | SSBP2 | blue |
| Cellular Growth and Proliferation | Clonogenicity of tumor cell lines | 0.0284 | 2 | SP1,SSBP2 | blue |
| Cellular Growth and Proliferation,Nervous System Development and Function | Cytostasis of astrocytes | 0.0128 | 1 | SMAD3 | blue |
| Cellular Movement | Migration of mesothelioma cell lines | 0.0128 | 1 | SP1 | blue |
| Cellular Movement | Cell movement of hepatic stellate cells | 0.0138 | 2 | NCF1,SMAD3 | blue |
| Cellular Movement | Migration of urothelial cells | 0.0191 | 1 | PIK3CA | blue |
| Cellular Movement | Chemotaxis of ovarian cancer cell lines | 0.0254 | 1 | SMAD3 | blue |
| Cellular Movement | Chemotaxis of melanoma cell lines | 0.0379 | 1 | COL4A3 | blue |
| Cellular Movement | Invasion by vascular endothelial cells | 0.0441 | 1 | PTPRJ | blue |
| Cellular Movement,Connective Tissue Development and Function | Infiltration by myofibroblasts | 0.000122 | 2 | COL4A3,SMAD3 | blue |
| Cellular Movement,Connective Tissue Development and Function,Hair and Skin Development and Function | Chemotaxis of dermal fibroblasts | 0.0128 | 1 | SMAD3 | blue |
| Cellular Movement,Connective Tissue Development and Function,Hepatic System Development and Function | Chemotaxis of hepatic stellate cells | 0.0441 | 1 | SMAD3 | blue |
| Cellular Movement,Hair and Skin Development and Function | Chemotaxis of keratinocytes | 0.0191 | 1 | SMAD3 | blue |
| Cellular Movement,Hematological System Development and Function,Hypersensitivity Response,Immune Cell Trafficking,Inflammatory Response | Influx of mast cells | 0.00642 | 1 | SMAD3 | blue |
| Cellular Movement,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response | Cell movement of microglia | 0.0272 | 2 | SMAD3,TNR | blue |
| Cellular Movement,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response | Chemotaxis of antigen presenting cells | 0.0283 | 4 | PIK3CA,PTPRJ,SMAD3,TRAF3IP2 | blue |
| Cellular Movement,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response | Cellular infiltration by tumor-associated macrophages | 0.0379 | 1 | SMAD3 | blue |
| Cellular Movement,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response | Chemotaxis of macrophages | 0.0412 | 3 | PTPRJ,SMAD3,TRAF3IP2 | blue |
| Cellular Movement,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response | Influx of monocytes | 0.0441 | 1 | SMAD3 | blue |
| Cellular Movement,Renal and Urological System Development and Function | Migration of kidney cell lines | 0.0412 | 3 | ADD1,PIK3C2B,TBXA2R | blue |
| Connective Tissue Development and Function,Connective Tissue Disorders,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders,Skeletal and Muscular System Development and Function,Tissue Development | Abnormal morphology of talus | 0.0254 | 1 | SMAD3 | blue |
| Connective Tissue Development and Function,Embryonic Development,Organismal Development,Skeletal and Muscular System Development and Function,Tissue Development | Development of vertebral column | 0.0424 | 2 | ARHGEF7,HIP1R | blue |
| Connective Tissue Development and Function,Skeletal and Muscular System Development and Function,Tissue Development | Chondrogenesis | 0.0223 | 2 | NFATC3,SMAD3 | blue |
| Connective Tissue Development and Function,Tissue Morphology | Quantity of fibroblasts | 0.0297 | 2 | COL4A3,SMAD3 | blue |
| Connective Tissue Disorders,Developmental Disorder,Gastrointestinal Disease,Hereditary Disorder,Neurological Disease,Organismal Development,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Neurodevelopmental disorder with dysmorphic facies and distal limb anomalies | 0.00642 | 1 | BPTF | blue |
| Connective Tissue Disorders,Developmental Disorder,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Primrose syndrome | 0.00642 | 1 | ZBTB20 | blue |
| Connective Tissue Disorders,Developmental Disorder,Hereditary Disorder,Ophthalmic Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Spondylometaphyseal dysplasia with cone-rod dystrophy | 0.00642 | 1 | PCYT1A | blue |
| Connective Tissue Disorders,Developmental Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Formation of osteophyte | 0.0379 | 1 | SMAD3 | blue |
| Connective Tissue Disorders,Hematological Disease,Organismal Injury and Abnormalities | Severe macrothrombocytopenia | 0.0191 | 1 | SP1 | blue |
| Connective Tissue Disorders,Hereditary Disorder,Immunological Disease,Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Renal and Urological Disease | Autosomal recessive Alport syndrome | 0.0128 | 1 | COL4A3 | blue |
| Connective Tissue Disorders,Hereditary Disorder,Immunological Disease,Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Renal and Urological Disease | Thin basement membrane disease | 0.0128 | 1 | COL4A3 | blue |
| Connective Tissue Disorders,Hereditary Disorder,Immunological Disease,Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Renal and Urological Disease | Autosomal dominant Alport syndrome | 0.0254 | 1 | COL4A3 | blue |
| Connective Tissue Disorders,Immunological Disease,Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Renal and Urological Disease,Skeletal and Muscular Disorders | Lupus-like autoimmune nephritis | 0.0254 | 1 | TRAF3IP2 | blue |
| Connective Tissue Disorders,Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Respiratory Disease | Rapidly progressive idiopathic pulmonary fibrosis | 0.0317 | 1 | AGO2 | blue |
| Connective Tissue Disorders,Inflammatory Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Systemic rheumatic disease | 0.0128 | 1 | TRAF3IP2 | blue |
| Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders,Skeletal and Muscular System Development and Function | Abnormal morphology of synovial capsule | 0.00642 | 1 | SMAD3 | blue |
| Dermatological Diseases and Conditions,Hereditary Disorder,Infectious Diseases,Organismal Injury and Abnormalities | Familial candidiasis type 8 | 0.00642 | 1 | TRAF3IP2 | blue |
| Dermatological Diseases and Conditions,Hereditary Disorder,Organismal Injury and Abnormalities | Susceptibility to psoriasis 13 | 0.00642 | 1 | TRAF3IP2 | blue |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Fibrosis of skin lesion | 0.00642 | 1 | SMAD3 | blue |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Acanthosis of epidermis | 0.0191 | 1 | SMAD3 | blue |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Epidermal nevus | 0.0379 | 1 | PIK3CA | blue |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Lesioning of skin | 0.0441 | 1 | CD79B | blue |
| Developmental Disorder | Developmental delay of cardiac loop | 0.0191 | 1 | PTPRJ | blue |
| Developmental Disorder,Embryonic Development,Organismal Development,Tissue Morphology | Abnormal morphology of vitelline vessel | 0.00836 | 4 | NFATC3,PIK3CA,PTPRJ,SPTBN1 | blue |
| Developmental Disorder,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Hypoplasia of liver | 0.0352 | 2 | SMAD3,SPTBN1 | blue |
| Developmental Disorder,Hematological Disease,Hereditary Disorder,Metabolic Disease,Organismal Injury and Abnormalities | Variant phosphoglycerate kinase deficiency | 0.00642 | 1 | PGK1 | blue |
| Developmental Disorder,Hereditary Disorder,Metabolic Disease,Ophthalmic Disease,Organismal Injury and Abnormalities | Hermansky-pudlak syndrome type 7 | 0.00642 | 1 | DTNBP1 | blue |
| Developmental Disorder,Hereditary Disorder,Metabolic Disease,Ophthalmic Disease,Organismal Injury and Abnormalities | Hermansky-Pudlak syndrome 1 | 0.0128 | 1 | DTNBP1 | blue |
| Developmental Disorder,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities | Autosomal recessive bilateral perisylvian polymicrogyria | 0.00642 | 1 | ADGRG1 | blue |
| Developmental Disorder,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities | Autosomal recessive bilateral frontoparietal polymicrogyria | 0.00642 | 1 | ADGRG1 | blue |
| Developmental Disorder,Immunological Disease,Organismal Injury and Abnormalities | Hypoplasia of lymph node | 0.0158 | 2 | GALNT1,NFATC3 | blue |
| Developmental Disorder,Immunological Disease,Organismal Injury and Abnormalities | Hypoplasia of lymphoid organ | 0.024 | 4 | GALNT1,NFATC3,SMAD3,SSBP2 | blue |
| Developmental Disorder,Neurological Disease,Organismal Injury and Abnormalities | Polymicrogyria | 0.00462 | 2 | ADGRG1,PIK3CA | blue |
| Developmental Disorder,Skeletal and Muscular Disorders | Congenital malformation of forelimb | 0.0128 | 1 | SMAD3 | blue |
| Digestive System Development and Function,Embryonic Development,Hepatic System Development and Function,Organ Development,Organismal Development,Tissue Development | Development of liver | 0.0101 | 4 | PIK3CA,SMAD3,SP1,SPTBN1 | blue |
| Digestive System Development and Function,Embryonic Development,Hepatic System Development and Function,Organ Development,Organismal Development,Tissue Development | Formation of intrahepatic bile duct | 0.0128 | 1 | SPTBN1 | blue |
| Digestive System Development and Function,Organ Morphology,Organismal Development | Size of submandibular gland | 0.0379 | 1 | TRAF3IP2 | blue |
| Drug Metabolism,Nucleic Acid Metabolism,Small Molecule Biochemistry | Metabolism of lamivudine | 0.00642 | 1 | PGK1 | blue |
| Embryonic Development,Hair and Skin Development and Function,Organ Development,Organ Morphology,Organismal Development,Tissue Development | Thickness of dermis | 0.0191 | 1 | SMAD3 | blue |
| Embryonic Development,Nervous System Development and Function,Organ Development,Organismal Development,Tissue Development | Development of retrosplenial cortex | 0.00642 | 1 | ZBTB20 | blue |
| Embryonic Development,Nervous System Development and Function,Organ Development,Organismal Development,Tissue Development | Development of subiculum | 0.00642 | 1 | ZBTB20 | blue |
| Embryonic Development,Organ Development,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Renal and Urological Disease,Renal and Urological System Development and Function,Tissue Development | Expansion of mesangial matrix | 0.00258 | 2 | COL4A3,SMAD3 | blue |
| Embryonic Development,Organ Development,Organismal Development,Reproductive System Development and Function,Tissue Development | Development of embryonic placenta | 0.0138 | 2 | BPTF,SP1 | blue |
| Embryonic Development,Organismal Development,Tissue Development | Development of axial mesendoderm | 0.0128 | 1 | SMAD3 | blue |
| Embryonic Development,Organismal Development,Tissue Development | Morphogenesis of paraxial mesoderm | 0.0191 | 1 | SMAD3 | blue |
| Embryonic Development,Organismal Development,Tissue Development | Development of trophoectoderm | 0.0317 | 1 | CTNNA1 | blue |
| Endocrine System Development and Function,Endocrine System Disorders,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities | Abnormal morphology of small thyroid gland | 0.0441 | 1 | SMAD3 | blue |
| Endocrine System Development and Function,Lipid Metabolism,Small Molecule Biochemistry,Vitamin and Mineral Metabolism | Catabolism of glucocorticoid | 0.0128 | 1 | YWHAH | blue |
| Endocrine System Development and Function,Molecular Transport,Small Molecule Biochemistry | Concentration of hormone | 0.0173 | 8 | CRTC3,GUCY2C,NCF1,PIK3CA,RBMS1,SMAD3,SP1,ZBTB20 | blue |
| Endocrine System Disorders,Hereditary Disorder,Organismal Injury and Abnormalities,Reproductive System Disease | Premature ovarian failure type 8 | 0.00642 | 1 | STAG3 | blue |
| Gastrointestinal Disease | Chronic idiopathic constipation | 0.0254 | 1 | GUCY2C | blue |
| Gastrointestinal Disease,Hepatic System Disease,Inflammatory Disease,Organismal Injury and Abnormalities | Abscess of liver | 0.0191 | 1 | NCF1 | blue |
| Gastrointestinal Disease,Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities | Inflammation of mucosa | 0.0297 | 2 | SMAD3,TRAF3IP2 | blue |
| Gastrointestinal Disease,Inflammatory Disease,Organismal Injury and Abnormalities | Inflammatory disorder of stomach | 0.0128 | 1 | SMAD3 | blue |
| Gastrointestinal Disease,Inflammatory Response,Organismal Injury and Abnormalities | Inflammation of submandibular gland | 0.000839 | 2 | CD79B,TRAF3IP2 | blue |
| Gastrointestinal Disease,Organ Morphology,Organismal Injury and Abnormalities | Pathological dilation of colon | 0.00642 | 1 | SLC2A5 | blue |
| Gastrointestinal Disease,Organismal Injury and Abnormalities | Irritable bowel syndrome characterized by constipation | 0.0128 | 1 | GUCY2C | blue |
| Gastrointestinal Disease,Organismal Injury and Abnormalities | Meconium ileus | 0.0128 | 1 | GUCY2C | blue |
| Gene Expression,Protein Synthesis | Initiation of translation of mRNA | 0.0409 | 2 | AGO2,EIF4G3 | blue |
| Hair and Skin Development and Function,Organismal Injury and Abnormalities | Epithelialization of wound | 0.0128 | 1 | SMAD3 | blue |
| Hematological Disease,Hereditary Disorder,Immunological Disease,Metabolic Disease,Organismal Injury and Abnormalities | Agammaglobulinemia type 6 | 0.00642 | 1 | CD79B | blue |
| Hematological Disease,Hereditary Disorder,Organismal Injury and Abnormalities | Platelet-type bleeding disorder type 18 | 0.00642 | 1 | RASGRP2 | blue |
| Hematological Disease,Hereditary Disorder,Organismal Injury and Abnormalities | Susceptibility to platelet-type bleeding disorder type 13 | 0.00642 | 1 | TBXA2R | blue |
| Hematological Disease,Immunological Disease,Infectious Diseases | Infection of monocyte-derived macrophages | 0.0379 | 1 | SPTBN1 | blue |
| Hematological System Development and Function | Bleeding time | 0.000759 | 4 | GALNT1,RASGRP2,ST3GAL2,TBXA2R | blue |
| Hematological System Development and Function | Hemoglobin concentration distribution width | 0.0317 | 1 | ADD1 | blue |
| Hematological System Development and Function,Hematopoiesis,Humoral Immune Response,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of transitional B lymphocytes | 0.0247 | 2 | CD79B,TRAF3IP2 | blue |
| Hematological System Development and Function,Humoral Immune Response,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of follicular B lymphocytes | 0.0142 | 4 | GALNT1,NFATC3,PTPRJ,TRAF3IP2 | blue |
| Hematological System Development and Function,Humoral Immune Response,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of marginal-zone B lymphocytes | 0.0232 | 3 | NFATC3,PTPRJ,TRAF3IP2 | blue |
| Hematological System Development and Function,Immunological Disease,Lymphoid Tissue Structure and Development,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Tissue Morphology | Abnormal morphology of cervical lymph node | 0.00521 | 2 | TBXA2R,TRAF3IP2 | blue |
| Hematological System Development and Function,Immunological Disease,Lymphoid Tissue Structure and Development,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Tissue Morphology | Abnormal morphology of spleen B cell corona | 0.0254 | 1 | TRAF3IP2 | blue |
| Hematological System Development and Function,Immunological Disease,Lymphoid Tissue Structure and Development,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Tissue Morphology | Abnormal morphology of enlarged cervical lymph node | 0.0379 | 1 | TRAF3IP2 | blue |
| Hematological System Development and Function,Immunological Disease,Lymphoid Tissue Structure and Development,Organ Morphology,Organismal Injury and Abnormalities,Tissue Morphology | Abnormal morphology of enlarged submandibular lymph node | 0.0317 | 1 | TRAF3IP2 | blue |
| Hematological System Development and Function,Lymphoid Tissue Structure and Development,Organ Morphology,Tissue Morphology | Enlargement of lymph node | 0.00258 | 2 | SMAD3,TRAF3IP2 | blue |
| Hematological System Development and Function,Lymphoid Tissue Structure and Development,Organ Morphology,Tissue Morphology | Enlargement of cervical lymph node | 0.00642 | 1 | TRAF3IP2 | blue |
| Hematological System Development and Function,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of memory T lymphocytes | 0.0133 | 3 | CD79B,GADD45B,TRAF3IP2 | blue |
| Hematological System Development and Function,Organismal Functions | Coagulation of blood | 0.0286 | 6 | DTNBP1,H3F3A/H3F3B,PIK3CA,PIK3R5,PTPRJ,TBXA2R | blue |
| Hereditary Disorder,Immunological Disease,Inflammatory Disease,Organismal Injury and Abnormalities | Cytochrome b-positive autosomal recessive chronic granulomatous disease type I | 0.00642 | 1 | NCF1 | blue |
| Hereditary Disorder,Immunological Disease,Organismal Injury and Abnormalities | Leukocyte adhesion deficiency type I | 0.0191 | 1 | RASGRP2 | blue |
| Hereditary Disorder,Neurological Disease,Ophthalmic Disease,Organismal Injury and Abnormalities | Ataxia-oculomotor apraxia 3 | 0.00642 | 1 | PIK3R5 | blue |
| Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities | Spinocerebellar ataxia 38 | 0.00642 | 1 | ELOVL5 | blue |
| Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities | Rett Syndrome | 0.0101 | 4 | ADGRG1,CTNNA1,HMBOX1,TRAF3IP2 | blue |
| Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Psychological Disorders | Short sleeper | 0.00642 | 1 | BHLHE41 | blue |
| Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Infantile hypotonia with psychomotor retardation | 0.00642 | 1 | CCDC174 | blue |
| Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Autosomal recessive spastic paraplegia type 28 | 0.00642 | 1 | DDHD1 | blue |
| Hereditary Disorder,Ophthalmic Disease,Organismal Injury and Abnormalities | Retinitis pigmentosa type 9 | 0.00642 | 1 | RP9 | blue |
| Hereditary Disorder,Ophthalmic Disease,Organismal Injury and Abnormalities | Autosomal dominant retinal degeneration | 0.0272 | 2 | CTNNA1,RP9 | blue |
| Immunological Disease,Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Respiratory Disease | Allergic inflammation of airway | 0.0317 | 1 | SMAD3 | blue |
| Infectious Diseases | Production of hepatitis B virus | 0.0379 | 1 | AGO2 | blue |
| Infectious Diseases | Infection by HIV-1 | 0.039 | 10 | CNST,CRTC3,FGD6,H3F3A/H3F3B,HIP1R,MAP4,MICAL3,PTPRJ,SPTBN1,TMEM131L | blue |
| Infectious Diseases,Skeletal and Muscular Disorders | Infection of paw | 0.00642 | 1 | NCF1 | blue |
| Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Renal and Urological Disease | Severe glomerulonephritis | 0.00642 | 1 | COL4A3 | blue |
| Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Renal and Urological Disease | Tubular nephritis | 0.0379 | 1 | COL4A3 | blue |
| Inflammatory Disease,Ophthalmic Disease,Organismal Injury and Abnormalities | Blepharitis | 0.00584 | 2 | NFATC3,TRAF3IP2 | blue |
| Inflammatory Disease,Organismal Injury and Abnormalities | Formation of abscess | 0.00791 | 2 | NCF1,SMAD3 | blue |
| Inflammatory Response | Inflammation of stroma | 0.0191 | 1 | PIK3CA | blue |
| Inflammatory Response | Mucosal immunity | 0.0379 | 1 | SMAD3 | blue |
| Inflammatory Response | Th2 immune response of lung | 0.0379 | 1 | TRAF3IP2 | blue |
| Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Efflux of phospholipid | 0.0138 | 2 | PCYT1A,SP1 | blue |
| Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Release of thromboxane A2 | 0.0191 | 1 | RASGRP2 | blue |
| Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Accumulation of linoleic acid | 0.0191 | 1 | ELOVL5 | blue |
| Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Quantity of palmitoleic acid | 0.0379 | 1 | ELOVL5 | blue |
| Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Efflux of cholesterol | 0.0412 | 3 | AEBP1,PCYT1A,SP1 | blue |
| Lipid Metabolism,Small Molecule Biochemistry | Synthesis of thromboxane | 0.0103 | 2 | RASGRP2,TBXA2R | blue |
| Lipid Metabolism,Small Molecule Biochemistry | Mass of phosphatidylcholine | 0.0128 | 1 | PCYT1A | blue |
| Lipid Metabolism,Small Molecule Biochemistry | Synthesis of lipid | 0.013 | 14 | AGPAT5,ELOVL5,NCF1,PCYT1A,PFKFB2,PIGL,PIK3C2B,PIK3CA,RASGRP2,SMAD3,SP1,ST3GAL2,TBXA2R,ZBTB20 | blue |
| Lipid Metabolism,Small Molecule Biochemistry | Incorporation of choline | 0.0254 | 1 | PCYT1A | blue |
| Molecular Transport | Clearance of synthetic promoter | 0.00642 | 1 | SP1 | blue |
| Nervous System Development and Function | Elaboration of dendrites | 0.0379 | 1 | PIK3CA | blue |
| Nervous System Development and Function,Neurological Disease | Lack of phrenic nerve | 0.00642 | 1 | SLC5A3 | blue |
| Nervous System Development and Function,Neurological Disease | Abnormal morphology of vagus nerve | 0.0441 | 1 | SLC5A3 | blue |
| Nervous System Development and Function,Neurological Disease,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities | Abnormal morphology of dorsal column of spinal cord | 0.0379 | 1 | NFATC3 | blue |
| Neurological Disease,Organismal Injury and Abnormalities | Communicating hydrocephalus | 0.0317 | 1 | ADD1 | blue |
| Neurological Disease,Organismal Injury and Abnormalities | Nonconvulsive seizure | 0.0317 | 1 | AP3M2 | blue |
| Neurological Disease,Skeletal and Muscular Disorders | Hypotonia | 0.0272 | 2 | CCDC174,NFATC3 | blue |
| Ophthalmic Disease,Organismal Injury and Abnormalities | Periorbital edema | 0.0191 | 1 | NFATC3 | blue |
| Organ Development,Renal and Urological System Development and Function | Growth of renal glomerulus | 0.0129 | 3 | ARHGEF7,COL4A3,SMAD3 | blue |
| Organ Morphology | Enlargement of lacrimal gland | 0.00642 | 1 | TRAF3IP2 | blue |
| Organ Morphology | Enlargement of submandibular gland | 0.00642 | 1 | TRAF3IP2 | blue |
| Organ Morphology,Organismal Injury and Abnormalities,Renal and Urological Disease,Renal and Urological System Development and Function | Abnormal morphology of mesangial matrix | 0.012 | 2 | COL4A3,SMAD3 | blue |
| Organ Morphology,Organismal Injury and Abnormalities,Renal and Urological Disease,Renal and Urological System Development and Function | Abnormal morphology of kidney | 0.0172 | 6 | COL4A3,NFATC3,SMAD3,SPTBN1,SSBP2,TRAF3IP2 | blue |
| Organ Morphology,Organismal Injury and Abnormalities,Renal and Urological Disease,Renal and Urological System Development and Function | Abnormal morphology of renal glomerulus | 0.0259 | 3 | COL4A3,SMAD3,TRAF3IP2 | blue |
| Organismal Development,Organismal Injury and Abnormalities | Abnormal morphology of neck | 0.0226 | 3 | SMAD3,TBXA2R,TRAF3IP2 | blue |
| Organismal Injury and Abnormalities | Calcification of joint | 0.0128 | 1 | SMAD3 | blue |
| Organismal Injury and Abnormalities | Interstitial fibrosis | 0.0272 | 3 | COL4A3,NCF1,SMAD3 | blue |
| Organismal Injury and Abnormalities | Fibrosis of exocrine gland | 0.0379 | 1 | TRAF3IP2 | blue |
| Organismal Injury and Abnormalities | Injury of mucosa | 0.0441 | 1 | GUCY2C | blue |
| Organismal Injury and Abnormalities,Renal and Urological Disease | Renal lesion | 0.012 | 19 | ARHGEF7,CD79B,COL4A3,ELOVL5,LHFPL2,MICAL3,NPIPB5 (includes others),PIK3C2B,PIK3CA,PIK3R5,PPIL2,PRUNE2,PSD4,RAB1A,SLC5A3,SMAD3,SPTBN1,TBC1D1,TNR | blue |
| Organismal Injury and Abnormalities,Renal and Urological Disease | Fibrosis of tubulointerstitium | 0.0128 | 1 | COL4A3 | blue |
| Organismal Injury and Abnormalities,Renal and Urological Disease | Bleeding of renal glomerulus | 0.0254 | 1 | COL4A3 | blue |
| Organismal Injury and Abnormalities,Tissue Morphology | Width of wound | 0.00642 | 1 | SMAD3 | blue |
| Post-Translational Modification | Lipidation of protein | 0.0439 | 2 | PIGL,ZDHHC23 | blue |
| Post-Translational Modification,Protein Synthesis | O-glycosylation of peptide | 0.0191 | 1 | GALNT1 | blue |
| Protein Trafficking,Tissue Development | Organization of collagen fiber | 0.0254 | 1 | SMAD3 | blue |
| RNA Damage and Repair | Catabolism of rRNA | 0.0379 | 1 | DIS3 | blue |
| RNA Post-Transcriptional Modification | Processing of siRNA | 0.0128 | 1 | AGO2 | blue |
| RNA Post-Transcriptional Modification | Production of siRNA | 0.0317 | 1 | AGO2 | blue |
| Skeletal and Muscular System Development and Function | Mineralization of tibia | 0.0191 | 1 | GADD45B | blue |
| Skeletal and Muscular System Development and Function | Morphology of muscle | 0.0329 | 9 | ADGRG1,DTNBP1,MPRIP,NCF1,NFATC3,PIK3CA,PTPRJ,RAB1A,SPTBN1 | blue |
| Small Molecule Biochemistry | Concentration of fructose-2,6-diphosphate | 0.0317 | 1 | PFKFB2 | blue |
| Auditory and Vestibular System Development and Function,Cell Morphology,Cellular Assembly and Organization | Polarization of stereocilia bundles | 0.0103 | 1 | VANGL2 | brown |
| Auditory and Vestibular System Development and Function,Cellular Growth and Proliferation,Connective Tissue Development and Function,Organ Development,Tissue Development | Proliferation of utricular supporting cells | 0.0103 | 1 | SOX4 | brown |
| Behavior | Odor habituation | 0.0103 | 1 | PTEN | brown |
| Behavior,Organismal Functions | Hypolocomotion of mice | 0.0103 | 1 | NT5E | brown |
| Cancer | Hyperplasia of urothelium | 0.00517 | 1 | PTEN | brown |
| Cancer | Atypical hyperplasia or endometroid intraepithelial neoplasia | 0.0103 | 1 | PTEN | brown |
| Cancer | Transformation of kidney cell lines | 0.0126 | 2 | JUP,PTEN | brown |
| Cancer,Cell Cycle,Organismal Injury and Abnormalities | Arrest in G1 phase of endometrial adenocarcinoma cells | 0.0103 | 1 | PTEN | brown |
| Cancer,Cell Death and Survival,Organismal Injury and Abnormalities,Tumor Morphology | Apoptosis of lung cancer cells | 0.00341 | 2 | PTEN,TNFRSF10B | brown |
| Cancer,Cell Death and Survival,Organismal Injury and Abnormalities,Tumor Morphology | Apoptosis of leukemia cells | 0.00971 | 3 | CD44,PTEN,TNFRSF10B | brown |
| Cancer,Cell Death and Survival,Organismal Injury and Abnormalities,Tumor Morphology | Apoptosis of thyroid cancer cells | 0.0103 | 1 | PTEN | brown |
| Cancer,Cell Death and Survival,Organismal Injury and Abnormalities,Tumor Morphology | Survival of non-small-cell lung cancer cells | 0.0103 | 1 | PTEN | brown |
| Cancer,Cellular Development,Cellular Growth and Proliferation,Hematological Disease,Organismal Injury and Abnormalities,Tumor Morphology | Proliferation of multiple myeloma cells | 0.00231 | 2 | PTEN,XBP1 | brown |
| Cancer,Cellular Development,Cellular Growth and Proliferation,Organismal Injury and Abnormalities,Tumor Morphology | Proliferation of thyroid cancer cells | 0.0103 | 1 | PTEN | brown |
| Cancer,Cellular Movement,Organismal Injury and Abnormalities,Tumor Morphology | Invasion of tumor cells | 0.00055 | 6 | ACKR3,ASAP1,CD44,JUP,PTEN,RHOB | brown |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Metastasis to bone of carcinoma cell lines | 0.00517 | 1 | NT5E | brown |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Metastasis to bone of hepatoma cell lines | 0.00517 | 1 | NT5E | brown |
| Cancer,Dermatological Diseases and Conditions,Metabolic Disease,Organismal Injury and Abnormalities | Malignant fibrous histiocytoma | 0.00979 | 2 | CD44,PTEN | brown |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Primary skin squamous cell carcinoma | 0.0103 | 1 | CD44 | brown |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Hyperplasia of basal epidermal cells | 0.0103 | 1 | PTEN | brown |
| Cancer,Developmental Disorder,Gastrointestinal Disease,Hereditary Disorder,Organismal Injury and Abnormalities | Riley-Smith syndrome | 0.00517 | 1 | PTEN | brown |
| Cancer,Developmental Disorder,Organismal Injury and Abnormalities | Proteus-like syndrome | 0.00517 | 1 | PTEN | brown |
| Cancer,Endocrine System Disorders,Gastrointestinal Disease,Organismal Injury and Abnormalities | Development of pancreatic tumor | 0.00979 | 2 | CD44,PTEN | brown |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities | Growth of endocrine gland tumor | 0.00383 | 2 | MME,PTEN | brown |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities,Reproductive System Disease | Growth of ovarian tumor | 0.00792 | 2 | NT5E,PTEN | brown |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities,Reproductive System Disease | Development of ovarian carcinoma | 0.0103 | 1 | PTEN | brown |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities,Respiratory Disease | Lung typical carcinoid tumor | 0.0103 | 1 | CD44 | brown |
| Cancer,Gastrointestinal Disease,Hereditary Disorder,Organismal Injury and Abnormalities | Cowden disease type 1 | 0.0103 | 1 | PTEN | brown |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Salivary gland tumor | 0.00463 | 3 | PLAG1,PRKACB,PTEN | brown |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Cancer of forestomach | 0.0103 | 1 | PTEN | brown |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Neoplastic intestinal polyp | 0.0126 | 2 | CD44,PTEN | brown |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Advanced colorectal adenoma | 0.0154 | 1 | CD44 | brown |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Germinal center B-cell-like diffuse large B-cell lymphoma | 0.0057 | 2 | MME,PTEN | brown |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Low grade scattered non-Hodgkin lymphoma | 0.0103 | 1 | CD44 | brown |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Spleen metastasis | 0.0103 | 1 | CD44 | brown |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | In situ follicular neoplasia | 0.0103 | 1 | MME | brown |
| Cancer,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities | Glioma susceptibility 2 | 0.00517 | 1 | PTEN | brown |
| Cancer,Hereditary Disorder,Organismal Injury and Abnormalities | Cowden-like syndrome | 0.00517 | 1 | PTEN | brown |
| Cancer,Neurological Disease,Organismal Functions,Organismal Injury and Abnormalities,Tumor Morphology | Suppression of glioma | 0.0103 | 1 | PTEN | brown |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Hyperplasia of cerebral cortex | 0.00517 | 1 | PTEN | brown |
| Cancer,Organismal Functions,Organismal Injury and Abnormalities,Tumor Morphology | Suppression of melanoma | 0.0103 | 1 | NT5E | brown |
| Cancer,Organismal Injury and Abnormalities | Metastasis of cells | 0.000728 | 8 | ALOX5,ASAP1,CD44,JUP,NT5E,PTEN,RHOB,TNFRSF21 | brown |
| Cancer,Organismal Injury and Abnormalities | Metastasis of tumor cell lines | 0.000926 | 7 | ALOX5,ASAP1,CD44,JUP,NT5E,PTEN,TNFRSF21 | brown |
| Cancer,Organismal Injury and Abnormalities | Growth of melanoma | 0.000939 | 4 | CD44,HRK,NT5E,PTEN | brown |
| Cancer,Organismal Injury and Abnormalities | Precancerous condition | 0.0039 | 4 | ALOX5,CD44,MYBPC2,PTEN | brown |
| Cancer,Organismal Injury and Abnormalities | Neoplasia of embryonic cell lines | 0.0052 | 2 | CD44,PTEN | brown |
| Cancer,Organismal Injury and Abnormalities | Head and neck melanoma | 0.00623 | 2 | CD44,PTEN | brown |
| Cancer,Organismal Injury and Abnormalities | Metastasis of cancer cells | 0.00677 | 2 | CD44,PTEN | brown |
| Cancer,Organismal Injury and Abnormalities | Delay in growth of tumor | 0.00852 | 2 | IKZF2,NT5E | brown |
| Cancer,Organismal Injury and Abnormalities | Metastasis of tumor cells | 0.0091 | 3 | CD44,PTEN,RHOB | brown |
| Cancer,Organismal Injury and Abnormalities | Growth of carcinoma | 0.00972 | 4 | APCDD1,MME,PTEN,RHOB | brown |
| Cancer,Organismal Injury and Abnormalities | Development of endometrioid carcinoma | 0.0103 | 1 | PTEN | brown |
| Cancer,Organismal Injury and Abnormalities | Superficial papillary transitional cell carcinoma | 0.0103 | 1 | PTEN | brown |
| Cancer,Organismal Injury and Abnormalities | Metastatic potential of hepatoma cell lines | 0.0103 | 1 | CTSH | brown |
| Cancer,Organismal Injury and Abnormalities | Cancer of head | 0.0124 | 17 | AHNAK2,ASAP1,CD44,CTSH,HRK,IKZF2,LIG4,MPPED2,MSI2,PLAG1,PRKACB,PTEN,RAPGEF5,TLE3,TRIB2,TTC28,ZNF608 | brown |
| Cancer,Organismal Injury and Abnormalities,Renal and Urological Disease | Papillary carcinoma of bladder | 0.000261 | 2 | CD44,PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Renal and Urological Disease | Pedicellate papillary transitional-cell carcinoma | 0.00517 | 1 | PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Renal and Urological Disease | Invasive malignant bladder tumor | 0.0118 | 2 | CD44,PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Metastasis of breast cancer cell lines | 0.00307 | 4 | ALOX5,CD44,JUP,PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Invasive breast adenocarcinoma | 0.0101 | 4 | CD44,CDC42EP3,PTEN,TLE3 | brown |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Stage I invasive ductal breast cancer | 0.0103 | 1 | CD44 | brown |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Endometrial intraepithelial neoplasia | 0.0103 | 1 | PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Endometrial carcinoma associated with endometrial intraepithelial neoplasia | 0.0103 | 1 | PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Tumorigenesis of dorsolateral prostatic lobe | 0.0103 | 1 | PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Tumorigenesis of ventral prostatic lobe | 0.0103 | 1 | PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Nonseminoma | 0.0126 | 2 | CD44,PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease,Tissue Morphology | Quantity of endometrial adenocarcinoma | 0.00517 | 1 | PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease,Tumor Morphology | Progression of prostatic tumor | 0.00265 | 2 | PTEN,SOX4 | brown |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Lung metastasis of cells | 0.00232 | 3 | NT5E,PTEN,TNFRSF21 | brown |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Pulmonary metastasis | 0.00247 | 5 | ALOX5,NT5E,PTEN,PTPRJ,TNFRSF21 | brown |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Lung metastasis of thyroid cancer cells | 0.0103 | 1 | PTEN | brown |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Lung metastasis of hepatoma cell lines | 0.0103 | 1 | NT5E | brown |
| Cancer,Organismal Injury and Abnormalities,Tissue Morphology,Tumor Morphology | Induction of malignant tumor | 0.00677 | 2 | NT5E,PTEN | brown |
| Carbohydrate Metabolism | Accumulation of D-glucose | 0.0103 | 1 | PTEN | brown |
| Carbohydrate Metabolism | Accumulation of D-ribose-5-phosphate | 0.0103 | 1 | PTEN | brown |
| Carbohydrate Metabolism | Accumulation of fructose-1,6-diphosphate | 0.0103 | 1 | PTEN | brown |
| Carbohydrate Metabolism | Accumulation of fructose-6-phosphate | 0.0103 | 1 | PTEN | brown |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Regulation of phosphatidylinositol-3,4,5-triphosphate | 0.00517 | 1 | PTEN | brown |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Degradation of phosphatidylinositol 4,5-diphosphate | 0.00517 | 1 | PTEN | brown |
| Carbohydrate Metabolism,Nucleic Acid Metabolism,Small Molecule Biochemistry | Hydrolysis of UDP-D-glucose | 0.00517 | 1 | NT5E | brown |
| Carbohydrate Metabolism,Small Molecule Biochemistry | Accumulation of glucose-6-phosphate | 0.0103 | 1 | PTEN | brown |
| Cardiovascular Disease,Cardiovascular System Development and Function,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Dilated cardiomyopathy | 0.00447 | 6 | ABCA5,ATP2A3,CDC42EP3,JUP,LIMS2,MYBPC2 | brown |
| Cardiovascular Disease,Connective Tissue Disorders,Hereditary Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Calcification of joints and arteries | 0.00517 | 1 | NT5E | brown |
| Cardiovascular Disease,Hematological Disease,Organismal Injury and Abnormalities | Delay in formation of thrombus | 0.0103 | 1 | ATP2A3 | brown |
| Cardiovascular Disease,Organismal Injury and Abnormalities | Spontaneous ventricular tachycardia | 0.0103 | 1 | JUP | brown |
| Cardiovascular Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Mixed cardiomyopathy | 0.00517 | 1 | ATP2A3 | brown |
| Cardiovascular System Development and Function | Morphology of vascular sprout | 0.000079 | 2 | PTEN,RHOB | brown |
| Cardiovascular System Development and Function | Vasoconstriction of umbilical artery | 0.0103 | 1 | MME | brown |
| Cardiovascular System Development and Function | Length of vascular sprout | 0.0103 | 1 | PTEN | brown |
| Cardiovascular System Development and Function,Cell Morphology,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Organismal Development,Tissue Development | Morphogenesis of vascular endothelial cells | 0.00623 | 2 | PTEN,PTPRJ | brown |
| Cardiovascular System Development and Function,Cell Morphology,Embryonic Development,Organ Development,Organ Morphology,Organismal Development,Skeletal and Muscular System Development and Function,Tissue Development,Tissue Morphology | Size of cardiomyocytes | 0.00352 | 3 | GDF11,LIMS2,PTEN | brown |
| Cardiovascular System Development and Function,Cell-To-Cell Signaling and Interaction | Binding of endothelial cell lines | 0.00547 | 3 | CD44,NT5E,PTPRJ | brown |
| Cardiovascular System Development and Function,Cellular Function and Maintenance,Tissue Development | Function of vascular endothelial cells | 0.00677 | 2 | ATP2A3,CD44 | brown |
| Cardiovascular System Development and Function,Cellular Movement | Migration of vascular endothelial cells | 0.00567 | 5 | ACKR3,CD44,CD9,PTEN,PTPRJ | brown |
| Cardiovascular System Development and Function,Organ Morphology,Organismal Development | Size of heart | 0.00379 | 4 | GDF11,JUP,LIMS2,PTEN | brown |
| Cardiovascular System Development and Function,Tissue Development | Morphogenesis of endothelial tissue | 0.00288 | 3 | PTEN,PTPRJ,RHOB | brown |
| Cell Cycle | Arrest in cell cycle progression of breast cancer cell lines | 0.00054 | 3 | MGAT4A,PTEN,XBP1 | brown |
| Cell Cycle | Arrest in cell cycle progression of prostate cancer cell lines | 0.00341 | 2 | ACKR3,PTEN | brown |
| Cell Cycle | Cell cycle progression of stem cells | 0.00383 | 2 | GDF11,PTEN | brown |
| Cell Cycle | Arrest in cell cycle progression of endometrial cancer cell lines | 0.00517 | 1 | PTEN | brown |
| Cell Cycle | Delay in cell cycle progression of breast cancer cell lines | 0.0103 | 1 | PTEN | brown |
| Cell Cycle | Arrest in cell cycle progression of tumor cell lines | 0.0117 | 4 | ACKR3,MGAT4A,PTEN,XBP1 | brown |
| Cell Cycle,Cellular Development | Senescence of thymocytes | 0.00517 | 1 | PTEN | brown |
| Cell Cycle,Reproductive System Development and Function | Arrest in mitosis of primordial germ cells | 0.00517 | 1 | PTEN | brown |
| Cell Death and Survival | Anoikis of tumor cell lines | 0.00547 | 3 | PTEN,RHOB,TNFRSF10B | brown |
| Cell Death and Survival | Apoptosis of squamous cell carcinoma cell lines | 0.00664 | 3 | CD44,JUP,TNFRSF10B | brown |
| Cell Death and Survival | Initiation of cell death of synovial cells | 0.0103 | 1 | TNFRSF10B | brown |
| Cell Death and Survival | Survival of suprabasal cells | 0.0103 | 1 | PTEN | brown |
| Cell Death and Survival | Apoptosis of CD34+ progenitor-derived connective tissue-type mast cells | 0.0103 | 1 | PTEN | brown |
| Cell Death and Survival | Apoptosis of neuroglia | 0.0139 | 3 | CD44,TICAM2,TNFRSF21 | brown |
| Cell Death and Survival,Cellular Development,Cellular Function and Maintenance | Self-renewal of squamous cell carcinoma cell lines | 0.0103 | 1 | CD44 | brown |
| Cell Death and Survival,Digestive System Development and Function | Survival of paneth cells | 0.0103 | 1 | XBP1 | brown |
| Cell Death and Survival,Embryonic Development | Cell viability of embryonic stem cells | 0.00852 | 2 | CD9,PTEN | brown |
| Cell Death and Survival,Endocrine System Disorders,Gastrointestinal Disease,Organismal Injury and Abnormalities | Apoptosis of beta islet cells | 0.00741 | 3 | MME,PTEN,XBP1 | brown |
| Cell Morphology | Polarity of neural stem cells | 0.00517 | 1 | PTEN | brown |
| Cell Morphology | Morphology of mesothelioma cell lines | 0.0103 | 1 | TRIB2 | brown |
| Cell Morphology | Surface area of cells | 0.0111 | 2 | PTEN,XBP1 | brown |
| Cell Morphology,Cellular Assembly and Organization | Polarization of microtubule organizing centers | 0.00302 | 2 | CD2AP,PTEN | brown |
| Cell Morphology,Cellular Assembly and Organization,Cellular Function and Maintenance | Formation of cellular protrusions | 0.00838 | 14 | ASAP1,BTBD3,CD2AP,CD44,CD9,HDGFL3,P2RX1,PRKACB,PTEN,RAB31,RHOB,TNFRSF21,VANGL2,WASF1 | brown |
| Cell Morphology,Cellular Assembly and Organization,Cellular Function and Maintenance | Formation of microtentacles | 0.0103 | 1 | PTEN | brown |
| Cell Morphology,Cellular Assembly and Organization,Cellular Function and Maintenance | Reorganization of actin filaments | 0.0133 | 2 | JUP,RHOB | brown |
| Cell Morphology,Cellular Assembly and Organization,Cellular Function and Maintenance,Inflammatory Response | Delay in initiation of closure of phagocytic cups | 0.0103 | 1 | RAB31 | brown |
| Cell Morphology,Cellular Assembly and Organization,Tissue Morphology | Volume of rough endoplasmatic reticulum | 0.0103 | 1 | XBP1 | brown |
| Cell Morphology,Cellular Compromise | Multinucleation of alveolar macrophages | 0.0103 | 1 | CD44 | brown |
| Cell Morphology,Connective Tissue Development and Function | Shape change of fibroblast cell lines | 0.0139 | 3 | ASAP1,PTEN,TNFRSF10B | brown |
| Cell Morphology,Embryonic Development,Organ Development,Organ Morphology,Organismal Development,Respiratory System Development and Function,Tissue Development | Size of pneumocytes | 0.0103 | 1 | PTEN | brown |
| Cell Morphology,Hematopoiesis,Humoral Immune Response,Immunological Disease,Lymphoid Tissue Structure and Development | Abnormal morphology of pre-B lymphocytes | 0.00623 | 2 | PTPRJ,SOX4 | brown |
| Cell Morphology,Organismal Injury and Abnormalities,Tissue Morphology | Hypertrophy of neural stem cells | 0.00517 | 1 | PTEN | brown |
| Cell Morphology,Organismal Injury and Abnormalities,Tissue Morphology | Hypertrophy of dentate granule cells | 0.0103 | 1 | PTEN | brown |
| Cell Morphology,Tissue Morphology | Size of melanocytes | 0.00517 | 1 | PTEN | brown |
| Cell Morphology,Tissue Morphology | Size of epithelial cells | 0.00677 | 2 | PTEN,XBP1 | brown |
| Cell Signaling,Molecular Transport,Vitamin and Mineral Metabolism | Mobilization of Ca2+ | 0.00637 | 7 | ACKR3,ATP2A3,CD44,CLEC4C,IGHG1,PTEN,PTPRJ | brown |
| Cell-mediated Immune Response,Cellular Movement,Hematological System Development and Function,Immune Cell Trafficking | Transendothelial migration of Th1 cells | 0.0103 | 1 | CD44 | brown |
| Cell-To-Cell Signaling and Interaction | Adhesion of connective tissue cells | 0.00312 | 5 | CD44,JUP,MME,PTPRJ,RHOB | brown |
| Cell-To-Cell Signaling and Interaction | Signaling of lymphatic system cells | 0.0126 | 2 | CD44,CD9 | brown |
| Cell-To-Cell Signaling and Interaction | Adhesion of Streptococcus pneumoniae D39 | 0.0154 | 1 | CD9 | brown |
| Cell-To-Cell Signaling and Interaction | Adhesion of Neisseria meningitidis strain MC58 C13 derivative | 0.0154 | 1 | CD9 | brown |
| Cell-To-Cell Signaling and Interaction | Adhesion of Neisseria lactamica NL1009 | 0.0154 | 1 | CD9 | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization | Cell-cell adhesion | 0.00912 | 5 | CD2AP,CD44,JUP,LIMS2,NT5E | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization | Fusion of multinucleated cells | 0.0103 | 1 | CD9 | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization | Adhesion of nuclear matrix | 0.0105 | 2 | JUP,PTPRJ | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization,Cellular Function and Maintenance | Organization of stereocilia in hair cells | 0.00677 | 2 | CECR2,VANGL2 | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization,Cellular Function and Maintenance | Formation of focal adhesions | 0.0139 | 4 | CD44,PTEN,PTPRJ,RHOB | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization,Hematological System Development and Function,Immune Cell Trafficking,Infectious Diseases,Inflammatory Response | Fusion of macrophages | 0.00677 | 2 | CD44,CD9 | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Compromise,Tumor Morphology | Adhesion of chronic lymphocytic leukemia cells | 0.0154 | 1 | CD44 | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Function and Maintenance | Positive selection of neurons | 0.0103 | 1 | LIG4 | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Function and Maintenance,Hematological System Development and Function,Inflammatory Response | Phagocytosis by peritoneal macrophages | 0.00852 | 2 | PTEN,XBP1 | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Function and Maintenance,Hematological System Development and Function,Inflammatory Response | Phagocytosis of red blood cells | 0.00852 | 2 | CD44,PTEN | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Function and Maintenance,Inflammatory Response | Phagocytosis by macrophage cancer cell lines | 0.0052 | 2 | CD44,RAB31 | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Growth and Proliferation,Respiratory System Development and Function,Skeletal and Muscular System Development and Function | Induction of airway smooth muscle cells | 0.00517 | 1 | PTEN | brown |
| Cell-To-Cell Signaling and Interaction,Cellular Movement | Recruitment of cardiomyocytes | 0.0103 | 1 | PTEN | brown |
| Cell-To-Cell Signaling and Interaction,Connective Tissue Development and Function | Adhesion of fibroblast cell lines | 0.00741 | 3 | CD44,JUP,PTPRJ | brown |
| Cell-To-Cell Signaling and Interaction,Connective Tissue Development and Function | Adhesion of dermal fibroblasts | 0.0154 | 1 | CD44 | brown |
| Cell-To-Cell Signaling and Interaction,Embryonic Development,Nervous System Development and Function | Synaptic transmission of pre-Botzinger complex | 0.0103 | 1 | CD44 | brown |
| Cell-To-Cell Signaling and Interaction,Hair and Skin Development and Function | Adhesion of keratinocytes | 0.00623 | 2 | CD44,JUP | brown |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response | Activation of CD56bright natural killer cells | 0.0103 | 1 | PTEN | brown |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response | Adhesion of monocyte-derived dendritic cells | 0.0154 | 1 | CD44 | brown |
| Cell-To-Cell Signaling and Interaction,Nervous System Development and Function | Evoked potential of dentate granule cells | 0.00517 | 1 | PTEN | brown |
| Cell-To-Cell Signaling and Interaction,Nervous System Development and Function | Activation of dentate granule cells | 0.00517 | 1 | PTEN | brown |
| Cell-To-Cell Signaling and Interaction,Reproductive System Development and Function | Adhesion of ova | 0.0154 | 1 | CD9 | brown |
| Cellular Assembly and Organization | Quantity of macropinosomes | 0.000725 | 2 | PTEN,RAB34 | brown |
| Cellular Assembly and Organization | Production of microvesicles | 0.0103 | 1 | CD9 | brown |
| Cellular Assembly and Organization | Redistribution of lysosome | 0.0103 | 1 | RAB34 | brown |
| Cellular Assembly and Organization,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Connective Tissue Development and Function,Skeletal and Muscular System Development and Function,Tissue Development | Formation of podosomes | 0.00623 | 2 | ASAP1,CD44 | brown |
| Cellular Development,Cellular Growth and Proliferation | Expansion of breast cancer cell lines | 0.0103 | 1 | PTEN | brown |
| Cellular Development,Cellular Growth and Proliferation,Connective Tissue Development and Function | Proliferation of fibroblast cell lines | 0.00919 | 8 | ACKR3,ALOX5,CD9,CDC14B,LIG4,PLAG1,PTEN,RHOB | brown |
| Cellular Development,Cellular Growth and Proliferation,Digestive System Development and Function | Proliferation of intestinal cell lines | 0.0148 | 2 | ALOX5,RHOB | brown |
| Cellular Development,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Humoral Immune Response,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Formation of plasmablasts | 0.0103 | 1 | XBP1 | brown |
| Cellular Development,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Humoral Immune Response,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Differentiation of pro-B lymphocytes | 0.0133 | 2 | LIG4,SOX4 | brown |
| Cellular Development,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Lymphopoiesis of long-term bone marrow culture cells | 0.0103 | 1 | CD44 | brown |
| Cellular Development,Cellular Growth and Proliferation,Nervous System Development and Function,Tissue Development | Generation of retinal ganglion cells | 0.0103 | 1 | SOX4 | brown |
| Cellular Development,Cellular Growth and Proliferation,Organ Development,Reproductive System Development and Function,Tissue Development,Tissue Morphology | Expansion of prostate progenitor cells | 0.00517 | 1 | PTEN | brown |
| Cellular Development,Endocrine System Development and Function | Differentiation of endocrine cells | 0.00173 | 3 | GDF11,PTEN,TLE3 | brown |
| Cellular Development,Endocrine System Development and Function | Differentiation of islet cells | 0.0052 | 2 | GDF11,PTEN | brown |
| Cellular Development,Endocrine System Development and Function | Transdifferentiation of islet cells | 0.0103 | 1 | PTEN | brown |
| Cellular Function and Maintenance,Cellular Growth and Proliferation | Production of neurons | 0.00979 | 2 | PTEN,SOX4 | brown |
| Cellular Function and Maintenance,Cellular Growth and Proliferation | Production of hair cells | 0.0103 | 1 | SOX4 | brown |
| Cellular Function and Maintenance,Cellular Growth and Proliferation,Nervous System Development and Function | Production of dentate granule cells | 0.00517 | 1 | PTEN | brown |
| Cellular Function and Maintenance,Cellular Movement,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response | Localization of monocytes | 0.0103 | 1 | CD44 | brown |
| Cellular Function and Maintenance,Hepatic System Development and Function | Mitochondrial respiration of hepatocytes | 0.00517 | 1 | PTEN | brown |
| Cellular Growth and Proliferation | Colony formation of hepatocytes | 0.00517 | 1 | PTEN | brown |
| Cellular Growth and Proliferation | Colony formation of bone marrow cell lines | 0.00852 | 2 | JUP,PTPRJ | brown |
| Cellular Growth and Proliferation,Reproductive System Development and Function | Colony formation of embryonic germ cell | 0.00517 | 1 | PTEN | brown |
| Cellular Movement | Cell movement of prostate cancer cells | 0.00265 | 2 | PTEN,RHOB | brown |
| Cellular Movement | Dissemination of tumor cells | 0.00265 | 2 | PTEN,RHOB | brown |
| Cellular Movement | Chemotaxis of bladder cancer cell lines | 0.00517 | 1 | PTEN | brown |
| Cellular Movement | Migration of mesothelioma cells | 0.0103 | 1 | CD44 | brown |
| Cellular Movement | Invasion by boundary cap cells | 0.0103 | 1 | ACKR3 | brown |
| Cellular Movement | Migration of hepatoma cell lines | 0.0124 | 3 | CD44,CTSH,PTEN | brown |
| Cellular Movement,Connective Tissue Development and Function | Cell movement of fibroblast cell lines | 0.00958 | 5 | ASAP1,CD44,LIMS2,PTEN,PTPRJ | brown |
| Cellular Movement,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response | Influx of monocyte-derived macrophages | 0.0103 | 1 | PTEN | brown |
| Cellular Movement,Nervous System Development and Function | Migration of Golgi interneurons | 0.00517 | 1 | PTEN | brown |
| Connective Tissue Development and Function,Organ Morphology,Organismal Development,Skeletal and Muscular System Development and Function,Tissue Development | Porosity of femur | 0.0103 | 1 | IGHG1 | brown |
| Connective Tissue Development and Function,Tissue Morphology | Density of stromal cells | 0.00517 | 1 | PTEN | brown |
| Connective Tissue Disorders,Dermatological Diseases and Conditions,Developmental Disorder,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Dubowitz syndrome | 0.00517 | 1 | LIG4 | brown |
| Connective Tissue Disorders,Developmental Disorder,Hereditary Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Severe osteopetrosis | 0.0103 | 1 | RGS10 | brown |
| Connective Tissue Disorders,Developmental Disorder,Neurological Disease,Organismal Injury and Abnormalities,Psychological Disorders,Skeletal and Muscular Disorders | Macrocephaly/autism syndrome | 0.00517 | 1 | PTEN | brown |
| Connective Tissue Disorders,Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Collagen-induced arthritis of ankle joint | 0.00517 | 1 | PTEN | brown |
| Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Lytic bone lesion | 0.0103 | 1 | XBP1 | brown |
| Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Spinal stenosis of lumbar region | 0.0103 | 1 | CD44 | brown |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Exhaustion of melanocyte stem cell | 0.00517 | 1 | PTEN | brown |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Keratosis | 0.00816 | 4 | ALOX5,JUP,MYBPC2,PTEN | brown |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Naxos disease | 0.0103 | 1 | JUP | brown |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Ulceration of skin | 0.0126 | 2 | JUP,NEIL1 | brown |
| Developmental Disorder,Embryonic Development,Organismal Development,Tissue Morphology | Abnormal morphology of neural tube | 0.00304 | 3 | PTEN,SOX4,XBP1 | brown |
| Developmental Disorder,Embryonic Development,Organismal Development,Tissue Morphology | Abnormal morphology of branchial arch mesenchyme | 0.0154 | 1 | SOX4 | brown |
| Developmental Disorder,Hereditary Disorder,Immunological Disease,Metabolic Disease,Organismal Injury and Abnormalities | Athabascan severe combined immunodeficiency | 0.0103 | 1 | LIG4 | brown |
| Developmental Disorder,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Vacterl with hydrocephalus | 0.0103 | 1 | PTEN | brown |
| Developmental Disorder,Neurological Disease,Organismal Injury and Abnormalities | Lhermitte-Duclos disease | 0.00517 | 1 | PTEN | brown |
| DNA Replication, Recombination, and Repair,Nucleic Acid Metabolism,Small Molecule Biochemistry | Dephosphorylation of adenosine | 0.00517 | 1 | NT5E | brown |
| DNA Replication, Recombination, and Repair,Nucleic Acid Metabolism,Small Molecule Biochemistry | Hydrolysis of IMP | 0.00517 | 1 | NT5E | brown |
| DNA Replication, Recombination, and Repair,Nucleic Acid Metabolism,Small Molecule Biochemistry | Catabolism of AMP | 0.0103 | 1 | NT5E | brown |
| DNA Replication, Recombination, and Repair,Nucleic Acid Metabolism,Small Molecule Biochemistry | Degradation of adenosine | 0.0103 | 1 | NT5E | brown |
| Embryonic Development,Organismal Development,Tissue Development | Development of chorion | 0.0103 | 1 | PTEN | brown |
| Endocrine System Development and Function,Endocrine System Disorders,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities | Abnormal morphology of thyroid follicle | 0.00169 | 2 | ABCA5,PTEN | brown |
| Endocrine System Disorders,Gastrointestinal Disease,Metabolic Disease,Organismal Injury and Abnormalities | Overt diabetes mellitus | 0.00517 | 1 | PTEN | brown |
| Endocrine System Disorders,Organismal Injury and Abnormalities,Reproductive System Disease | Polycystic ovary syndrome | 0.015 | 3 | CDC42EP3,MYBPC2,TLE3 | brown |
| Energy Production,Nucleic Acid Metabolism,Small Molecule Biochemistry | Dephosphorylation of ATP | 0.0103 | 1 | NT5E | brown |
| Gastrointestinal Disease,Hepatic System Disease,Metabolic Disease,Organismal Injury and Abnormalities | Hepatic steatosis | 0.013 | 6 | ALOX5,CD44,MGAT4A,NEIL1,PTEN,XBP1 | brown |
| Gastrointestinal Disease,Hepatic System Disease,Metabolic Disease,Organismal Injury and Abnormalities | Advanced stage hepatic steatosis | 0.0154 | 1 | CD44 | brown |
| Gastrointestinal Disease,Inflammatory Disease | Crohn disease | 0.00419 | 6 | ALOX5,CD44,MYBPC2,TLE1,TLE3,XBP1 | brown |
| Gastrointestinal Disease,Inflammatory Disease | Inflammatory Bowel Disease | 0.0073 | 7 | ALOX5,CD44,CDC42EP3,MYBPC2,TLE1,TLE3,XBP1 | brown |
| Gastrointestinal Disease,Organismal Injury and Abnormalities | Intestinal polyp | 0.00288 | 3 | ALOX5,CD44,PTEN | brown |
| Gastrointestinal Disease,Organismal Injury and Abnormalities | Intestinalomegaly | 0.00517 | 1 | PTEN | brown |
| Gastrointestinal Disease,Organismal Injury and Abnormalities | Colorectal polyp | 0.0126 | 2 | CD44,PTEN | brown |
| Gastrointestinal Disease,Organismal Injury and Abnormalities | Abnormality of large intestine | 0.015 | 7 | ALOX5,CD44,CDC42EP3,GDF11,MME,NT5E,XBP1 | brown |
| Hematological Disease,Immunological Disease | Invasive lymphoproliferative disorder | 0.00517 | 1 | PTEN | brown |
| Hematological System Development and Function | Thromboregulation | 0.00517 | 1 | NT5E | brown |
| Hematological System Development and Function,Humoral Immune Response,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of follicular B lymphocytes | 0.00678 | 4 | ACKR3,PTEN,PTPRJ,SOX4 | brown |
| Hematological System Development and Function,Humoral Immune Response,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of marginal-zone B lymphocytes | 0.0131 | 3 | ACKR3,PTPRJ,SOX4 | brown |
| Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response,Tissue Development | Accumulation of macrophages | 0.00103 | 4 | ACKR3,CD44,IGHG1,NT5E | brown |
| Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response,Tissue Development | Accumulation of regulatory T lymphocytes | 0.00677 | 2 | NT5E,PTEN | brown |
| Hereditary Disorder,Organismal Injury and Abnormalities | Lig4 syndrome | 0.00517 | 1 | LIG4 | brown |
| Hereditary Disorder,Organismal Injury and Abnormalities,Renal and Urological Disease | Susceptibility to focal segmental glomerulosclerosis type 3 | 0.00517 | 1 | CD2AP | brown |
| Infectious Diseases | Reactivation of human herpesvirus 8 | 0.0103 | 1 | XBP1 | brown |
| Inflammatory Disease,Respiratory Disease | Airway hyperresponsiveness | 0.00462 | 4 | ALOX5,CD44,IGHG1,PTEN | brown |
| Lipid Metabolism,Small Molecule Biochemistry | Dephosphorylation of inositol phospholipid | 0.00517 | 1 | PTEN | brown |
| Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of lymph follicle | 0.00225 | 5 | ACKR3,IKZF2,PTEN,PTPRJ,SOX4 | brown |
| Metabolic Disease,Neurological Disease,Organismal Injury and Abnormalities,Psychological Disorders | Alzheimer disease | 0.00496 | 10 | CD2AP,CDC42EP3,IGHG1,MME,MYBPC2,PON2,PRKACB,PTEN,WASF1,XBP1 | brown |
| Molecular Transport,Small Molecule Biochemistry | Release of adenosine | 0.0103 | 1 | NT5E | brown |
| Nervous System Development and Function | Regeneration of pyramidal tract | 0.0103 | 1 | PTEN | brown |
| Nervous System Development and Function,Organ Development | Overgrowth of brain | 0.00517 | 1 | PTEN | brown |
| Nervous System Development and Function,Tissue Morphology | Induction of nervous tissue | 0.0103 | 1 | GDF11 | brown |
| Neurological Disease,Organismal Injury and Abnormalities | Brain cyst | 0.00517 | 1 | NT5E | brown |
| Nucleic Acid Metabolism | Regulation of GTPase | 0.0103 | 1 | ASAP1 | brown |
| Nucleic Acid Metabolism,Small Molecule Biochemistry | Conversion of AMP | 0.00517 | 1 | NT5E | brown |
| Nucleic Acid Metabolism,Small Molecule Biochemistry | Generation of ADP | 0.0103 | 1 | NT5E | brown |
| Nucleic Acid Metabolism,Small Molecule Biochemistry | Dephosphorylation of AMP | 0.0103 | 1 | NT5E | brown |
| Organ Development,Reproductive System Development and Function | Growth of prostate gland | 0.00302 | 2 | PLAG1,PTEN | brown |
| Organ Morphology,Organismal Injury and Abnormalities,Reproductive System Development and Function,Reproductive System Disease | Abnormal morphology of placental spongiotrophoblast layer | 0.00852 | 2 | JUP,PEG10 | brown |
| Organ Morphology,Organismal Injury and Abnormalities,Reproductive System Development and Function,Reproductive System Disease | Abnormal morphology of small placenta | 0.0126 | 2 | JUP,PEG10 | brown |
| Organ Morphology,Reproductive System Development and Function,Tissue Development | Involution of uterus | 0.0103 | 1 | CD44 | brown |
| Organ Morphology,Tissue Morphology | Quantity of exocrine cells | 0.0133 | 2 | GDF11,PTEN | brown |
| Organ Morphology,Tissue Morphology,Visual System Development and Function | Quantity of retinal cells | 0.00547 | 3 | GDF11,MME,PTEN | brown |
| Organismal Development | Branching of bile duct | 0.0103 | 1 | PTEN | brown |
| Organismal Injury and Abnormalities | Dysplasia of bile duct | 0.0103 | 1 | PTEN | brown |
| Organismal Injury and Abnormalities | Rebleeding | 0.0103 | 1 | ATP2A3 | brown |
| Organismal Injury and Abnormalities,Renal and Urological Disease | Onset of nephrosis | 0.00517 | 1 | CD2AP | brown |
| Organismal Injury and Abnormalities,Reproductive System Disease | Endometriotic tissue in endometrium | 0.00517 | 1 | PTEN | brown |
| Small Molecule Biochemistry | Production of nitrite | 0.0111 | 2 | ALOX5,PTEN | brown |
| Tissue Development | Formation of extracellular matrix | 0.00623 | 2 | CD44,CD9 | brown |
| Auditory and Vestibular System Development and Function,Cell Morphology,Cellular Assembly and Organization | Orientation of stereocilia bundles | 0.0371 | 1 | SMURF2 | green |
| Cancer | Transformation of prostate cell lines | 0.00595 | 1 | PAWR | green |
| Cancer,Cell Death and Survival,Organismal Injury and Abnormalities,Tumor Morphology | Apoptosis of prostate cancer cells | 0.0333 | 1 | PAWR | green |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Humerus osteosarcoma | 0.039 | 1 | BPTF | green |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Digestive organ tumor | 0.00631 | 34 | BPTF,BTF3L4,CEP295,CHD9,CHML,CRIM1,DHX32,DPH5,ICK,IDI1 | green |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Digestive system cancer | 0.0174 | 33 | BPTF,BTF3L4,CEP295,CHD9,CHML,CRIM1,DHX32,DPH5,ICK,IDI1 | green |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Oral squamous cell carcinoma | 0.0285 | 7 | BTF3L4,CEP295,DHX32,LCOR,LRRC4,NDFIP1,RBM48 | green |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Gastrointestinal carcinoma | 0.0399 | 30 | BPTF,BTF3L4,CEP295,CHD9,CHML,CRIM1,DHX32,DPH5,ICK,IDI1 | green |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Small B-cell lymphocytic lymphoma | 0.018 | 4 | DPH5,ICK,KPNA1,PSME4 | green |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities,Tissue Morphology | Quantity of lymphoma | 0.039 | 1 | SMURF2 | green |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Metastasis of 4TO7 cells | 0.039 | 1 | SMURF2 | green |
| Carbohydrate Metabolism,Connective Tissue Development and Function,Skeletal and Muscular System Development and Function,Small Molecule Biochemistry,Tissue Development | Synthesis of chondroitin sulfate | 0.00151 | 2 | UST,XYLT1 | green |
| Carbohydrate Metabolism,Connective Tissue Development and Function,Skeletal and Muscular System Development and Function,Small Molecule Biochemistry,Tissue Development | Synthesis of chondroitin sulfate B | 0.0255 | 1 | UST | green |
| Carbohydrate Metabolism,Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Quantity of phosphatidylinositol 4-phosphate | 0.0197 | 1 | PIP5K1B | green |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Synthesis of phosphatidylinositol 4,5-diphosphate | 0.0371 | 1 | PIP5K1B | green |
| Cardiovascular Disease,Hematological Disease,Organismal Injury and Abnormalities | Hypochromic microcytic anemia | 0.0138 | 1 | NDFIP1 | green |
| Cardiovascular Disease,Hereditary Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Brugada syndrome type 1 | 0.0467 | 1 | SLMAP | green |
| Cell Cycle,Hematological System Development and Function | Entry into cell cycle progression of peripheral T lymphocyte | 0.00199 | 1 | PAWR | green |
| Cell Cycle,Reproductive System Development and Function | Cell cycle progression of prostate cell lines | 0.00793 | 1 | PAWR | green |
| Cell Death and Survival | Apoptosis of peripheral T lymphocyte | 0.0177 | 1 | PAWR | green |
| Cell Death and Survival | Apoptosis of synovial fibroblasts | 0.0428 | 1 | TNFAIP8 | green |
| Cell Death and Survival | Apoptosis of prostate cell lines | 0.0428 | 1 | PAWR | green |
| Cell Death and Survival | Apoptosis of motor neurons | 0.0448 | 1 | PAWR | green |
| Cell Morphology | Polarity of leukemia cell lines | 0.00397 | 1 | PIP5K1B | green |
| Cell Morphology | Detachment of flagella | 0.0217 | 1 | PIP5K1B | green |
| Cell Morphology,Cellular Assembly and Organization,Cellular Function and Maintenance | Formation of microvilli | 0.0448 | 1 | PIP5K1B | green |
| Cell Morphology,Endocrine System Disorders,Organ Morphology,Organismal Injury and Abnormalities,Reproductive System Development and Function,Reproductive System Disease | Abnormal morphology of sperm midpiece | 0.0467 | 1 | PIP5K1B | green |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization | Formation of actin comet | 0.0138 | 1 | PIP5K1B | green |
| Cell-To-Cell Signaling and Interaction,Cellular Assembly and Organization,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Nervous System Development and Function,Tissue Development | Formation of ribbon synapse | 0.00595 | 1 | LRRC4 | green |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Immune Cell Trafficking,Inflammatory Response | Activation of CD4+ T-lymphocytes | 0.00219 | 2 | NDFIP1,PIP5K1B | green |
| Cell-To-Cell Signaling and Interaction,Molecular Transport,Small Molecule Biochemistry | Uptake of choline | 0.0158 | 1 | PAWR | green |
| Cell-To-Cell Signaling and Interaction,Nervous System Development and Function | Synaptic transmission of collateral synapses | 0.0119 | 1 | LRRC4 | green |
| Cellular Assembly and Organization | Decapping of actin filaments | 0.0099 | 1 | PIP5K1B | green |
| Cellular Assembly and Organization | Quantity of clathrin-coated pits | 0.0177 | 1 | PIP5K1B | green |
| Cellular Assembly and Organization | Intraciliary transport | 0.0275 | 1 | ICK | green |
| Cellular Assembly and Organization | Formation of flagella | 0.0352 | 1 | PIP5K1B | green |
| Cellular Development,Cellular Growth and Proliferation,Connective Tissue Development and Function,Tissue Development | Proliferation of synovial fibroblasts | 0.0352 | 1 | TNFAIP8 | green |
| Cellular Development,Nervous System Development and Function,Tissue Development | Differentiation of axons | 0.00595 | 1 | LRRC4 | green |
| Cellular Development,Reproductive System Development and Function | Differentiation of spermatids | 0.0217 | 1 | RHBDD1 | green |
| Connective Tissue Disorders,Developmental Disorder,Gastrointestinal Disease,Hereditary Disorder,Neurological Disease,Organismal Development,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Neurodevelopmental disorder with dysmorphic facies and distal limb anomalies | 0.00199 | 1 | BPTF | green |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Formation of blister | 0.0197 | 1 | CRIM1 | green |
| Developmental Disorder,Embryonic Development,Organismal Development,Tissue Morphology | Abnormal morphology of floor plate | 0.0467 | 1 | SMURF2 | green |
| Developmental Disorder,Endocrine System Disorders,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Endocrine-cerebroosteodysplasia | 0.00199 | 1 | ICK | green |
| Drug Metabolism,Protein Synthesis | Synthesis of aldesleukin | 0.0428 | 1 | PAWR | green |
| Embryonic Development,Tissue Morphology | Contraction of hindgut | 0.00595 | 1 | PAWR | green |
| Energy Production,Lipid Metabolism,Small Molecule Biochemistry | Oxidation of cholesterol | 0.0119 | 1 | PON2 | green |
| Free Radical Scavenging,Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Quantity of lipid peroxide | 0.039 | 1 | PON2 | green |
| Immunological Disease | Passive cutaneous anaphylaxis | 0.0467 | 1 | PIP5K1B | green |
| Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Quantity of glucosylceramide | 0.0177 | 1 | PON2 | green |
| Neurological Disease,Organismal Injury and Abnormalities | Juvenile myoclonic epilepsy | 0.0119 | 1 | ICK | green |
| Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Reproductive System Development and Function,Reproductive System Disease | Abnormal morphology of thin myometrium | 0.0119 | 1 | KPNA1 | green |
| Organismal Injury and Abnormalities,Renal and Urological Disease | Progressive renal fibrosis | 0.0138 | 1 | SMURF2 | green |
| Organismal Injury and Abnormalities,Reproductive System Disease | Dystocia | 0.0138 | 1 | KPNA1 | green |
| Organismal Injury and Abnormalities,Reproductive System Disease | Asthenozoospermia | 0.0178 | 2 | PIP5K1B,PSME4 | green |
| Reproductive System Development and Function | Spermiation | 0.0352 | 1 | PIP5K1B | green |
| Reproductive System Development and Function | Parturition | 0.039 | 1 | KPNA1 | green |
| Cancer,Cell Death and Survival,Organismal Injury and Abnormalities,Tumor Morphology | Cell death of acute myeloid leukemia blast cells | 0.00748 | 1 | RPS3A | grey |
| Cancer,Cell Morphology,Organismal Injury and Abnormalities | Cell rounding of astrocytoma cells | 0.00996 | 1 | AKAP13 | grey |
| Cancer,Gastrointestinal Disease,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Lymphoid hyperplasia of small intestine | 0.0025 | 1 | TXNIP | grey |
| Cancer,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Biliary tract carcinoma | 0.0193 | 6 | AKAP13,LARP7,PAPOLA,RREB1,SNTB1,ZBTB4 | grey |
| Cancer,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Bile duct carcinoma | 0.0483 | 5 | LARP7,PAPOLA,RREB1,SNTB1,ZBTB4 | grey |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Intestinal gastric adenocarcinoma | 0.00865 | 4 | HIVEP3,LARP7,TTC3,ZBTB4 | grey |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Oral cavity carcinoma | 0.0146 | 9 | DOCK9,FAM13B,MTMR7,PAPOLA,RREB1,SNTB1,THUMPD2,TMPO,TTC3 | grey |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Lip and oral cavity carcinoma | 0.0223 | 1 | SNTB1 | grey |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Oral squamous cell carcinoma | 0.0337 | 8 | DOCK9,FAM13B,MTMR7,PAPOLA,RREB1,THUMPD2,TMPO,TTC3 | grey |
| Cancer,Hematological Disease,Organismal Injury and Abnormalities | Blastic plasmacytoid dendritic cell neoplasm | 0.0368 | 1 | IKZF3 | grey |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Endometrial adenocarcinoma | 0.0371 | 14 | ABHD6,DOCK9,FAM13B,HIVEP3,HMGN5,JAM3,KBTBD8,LARP7,MTMR7,THOC6,TMPO,TRMT11,TTC3,ZNF277 | grey |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Dephosphorylation of phosphatidylinositol-3-phosphate | 0.0149 | 1 | MTMR7 | grey |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Hydrolysis of phosphatidylinositol-3-phosphate | 0.0198 | 1 | MTMR7 | grey |
| Carbohydrate Metabolism,Small Molecule Biochemistry | Dephosphorylation of inositol phosphate | 0.0223 | 1 | MTMR7 | grey |
| Cardiovascular Disease,Cardiovascular System Development and Function,Hereditary Disorder,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Dilated cardiomyopathy type 1T | 0.0025 | 1 | TMPO | grey |
| Cardiovascular Disease,Cardiovascular System Development and Function,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders,Skeletal and Muscular System Development and Function | Thickening of myocardium | 0.00499 | 1 | AKAP13 | grey |
| Cardiovascular Disease,Connective Tissue Disorders,Developmental Disorder,Hereditary Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Loeys-Dietz syndrome type 2B | 0.00499 | 1 | TMPO | grey |
| Cardiovascular System Development and Function,Cell Death and Survival | Cell viability of heart cell lines | 0.0198 | 1 | TXNIP | grey |
| Cardiovascular System Development and Function,Cellular Assembly and Organization,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Embryonic Development,Organ Development,Organismal Development,Skeletal and Muscular System Development and Function,Tissue Development | Formation of sarcomere | 0.0296 | 1 | AKAP13 | grey |
| Cardiovascular System Development and Function,Embryonic Development,Nervous System Development and Function,Organ Development,Organismal Development,Tissue Development,Visual System Development and Function | Angiogenesis of retina | 0.032 | 1 | JAM3 | grey |
| Cardiovascular System Development and Function,Organismal Development,Tissue Morphology | Outgrowth of blood vessel | 0.0441 | 1 | JAM3 | grey |
| Cell Cycle,Cell-To-Cell Signaling and Interaction,Cellular Growth and Proliferation,Hematological System Development and Function,Hematopoiesis,Humoral Immune Response | Contact growth inhibition of pre-B lymphocytes | 0.00996 | 1 | IKZF3 | grey |
| Cell Cycle,Embryonic Development | Arrest in Gap 0-Gap 1 phase of embryonic cell lines | 0.0025 | 1 | TXNIP | grey |
| Cell Cycle,Hair and Skin Development and Function | Arrest in Gap 0-Gap 1 phase of epithelial cell lines | 0.00499 | 1 | TXNIP | grey |
| Cell Cycle,Renal and Urological System Development and Function | Arrest in Gap 0-Gap 1 phase of kidney cell lines | 0.0025 | 1 | TXNIP | grey |
| Cell Death and Survival,Skeletal and Muscular System Development and Function | Cell viability of muscle cell lines | 0.0488 | 1 | TXNIP | grey |
| Cell Morphology | Polarity of lung cancer cell lines | 0.00499 | 1 | JAM3 | grey |
| Cell Morphology | Polarity of carcinoma cell lines | 0.00748 | 1 | JAM3 | grey |
| Cell Morphology | Apico-basal polarity of tumor cell lines | 0.0149 | 1 | JAM3 | grey |
| Cell Morphology,Cellular Assembly and Organization | Polarization of cell surface | 0.00499 | 1 | RAB3IP | grey |
| Cell Morphology,Cellular Assembly and Organization,Tissue Morphology | Volume of nucleus | 0.00499 | 1 | TMPO | grey |
| Cell Morphology,Cellular Development,Tissue Development | Tubulation of lung cell lines | 0.00996 | 1 | PATJ | grey |
| Cell Morphology,Cellular Function and Maintenance,Nervous System Development and Function,Tissue Morphology | Length of nodes of Ranvier | 0.00499 | 1 | JAM3 | grey |
| Cell-To-Cell Signaling and Interaction | Adhesion of fibrosarcoma cell lines | 0.0174 | 1 | JAM3 | grey |
| Cell-To-Cell Signaling and Interaction,Cellular Compromise | Disassembly of adherens junctions | 0.0149 | 1 | JAM3 | grey |
| Cell-To-Cell Signaling and Interaction,Connective Tissue Development and Function | Binding of synovial fibroblasts | 0.0198 | 1 | JAM3 | grey |
| Cell-To-Cell Signaling and Interaction,Connective Tissue Development and Function | Response of fibroblasts | 0.0488 | 1 | TTC3 | grey |
| Cell-To-Cell Signaling and Interaction,Nervous System Development and Function | Conductance velocity of sciatic nerve | 0.00748 | 1 | JAM3 | grey |
| Cellular Assembly and Organization | Remodeling of actin stress fibers | 0.00499 | 1 | RAB3IP | grey |
| Cellular Assembly and Organization | Decondensation of chromatin | 0.032 | 1 | AKAP13 | grey |
| Cellular Assembly and Organization | Formation of stress granule | 0.0464 | 1 | STAU1 | grey |
| Cellular Assembly and Organization,Cellular Function and Maintenance | Organization of mitochondrial membrane | 0.0247 | 1 | CLN8 | grey |
| Cellular Assembly and Organization,Cellular Function and Maintenance,Nervous System Development and Function,Tissue Development | Organization of neurofilaments | 0.0223 | 1 | CLN8 | grey |
| Cellular Assembly and Organization,DNA Replication, Recombination, and Repair | Formation of inner nuclear membrane | 0.0025 | 1 | TMPO | grey |
| Cellular Assembly and Organization,DNA Replication, Recombination, and Repair | Formation of nuclear envelope | 0.0344 | 1 | TMPO | grey |
| Cellular Compromise,Organismal Injury and Abnormalities,Renal and Urological Disease | Injury of podocytes | 0.0271 | 1 | TXNIP | grey |
| Cellular Development | Differentiation of stromal cell lines | 0.0368 | 1 | HIVEP3 | grey |
| Cellular Development,Cellular Growth and Proliferation,Connective Tissue Development and Function,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Skeletal and Muscular System Development and Function,Tissue Development | Osteoclastogenesis of bone marrow stromal cells | 0.0025 | 1 | HIVEP3 | grey |
| Cellular Development,Cellular Growth and Proliferation,Nervous System Development and Function | Myelination of cells | 0.0293 | 2 | FAM126A,JAM3 | grey |
| Cellular Development,Cellular Growth and Proliferation,Organ Development,Reproductive System Development and Function | Proliferation of primordial germ cells | 0.0174 | 1 | LARP7 | grey |
| Cellular Development,Nervous System Development and Function,Tissue Development | Differentiation of somatic motor neurons | 0.00748 | 1 | CLN8 | grey |
| Cellular Function and Maintenance | Barrier function of tight junctions | 0.0149 | 1 | JAM3 | grey |
| Cellular Function and Maintenance | Homeostasis of neutrophils | 0.0174 | 1 | JAM3 | grey |
| Cellular Function and Maintenance,Organ Development | Function of splenocytes | 0.0296 | 1 | AKAP13 | grey |
| Cellular Growth and Proliferation | Proliferation of uterine cell lines | 0.0247 | 1 | TMPO | grey |
| Cellular Movement | Migration of cholangiocarcinoma cell lines | 0.0174 | 1 | TMPO | grey |
| Cellular Movement | Invasion of stomach cancer cell lines | 0.0488 | 1 | TMPO | grey |
| Connective Tissue Development and Function,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders,Skeletal and Muscular System Development and Function,Tissue Development,Tissue Morphology | Abnormal morphology of trabecula | 0.0393 | 1 | HIVEP3 | grey |
| Connective Tissue Development and Function,Skeletal and Muscular System Development and Function | Resorption of osteoclastic bone | 0.0174 | 1 | HIVEP3 | grey |
| Connective Tissue Development and Function,Tissue Development | Maturation of growth plate | 0.00499 | 1 | HIVEP3 | grey |
| Connective Tissue Disorders,Developmental Disorder,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Alazami syndrome | 0.0025 | 1 | LARP7 | grey |
| Connective Tissue Disorders,Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | K/BxN serum transfer arthritis | 0.0344 | 1 | JAM3 | grey |
| Developmental Disorder,Embryonic Development,Organismal Development,Tissue Morphology | Abnormal morphology of small first branchial arch | 0.0198 | 1 | AKAP13 | grey |
| Developmental Disorder,Hereditary Disorder,Metabolic Disease,Neurological Disease,Organismal Injury and Abnormalities | Neuronal ceroid lipofuscinosis 8 northern epilepsy variant | 0.0025 | 1 | CLN8 | grey |
| Developmental Disorder,Hereditary Disorder,Neurological Disease,Ophthalmic Disease,Organismal Injury and Abnormalities,Psychological Disorders | Hypomyelinating leukodystrophy type 5 | 0.0025 | 1 | FAM126A | grey |
| Developmental Disorder,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities | Autosomal recessive mental retardation | 0.00919 | 3 | FAM126A,LARP7,THOC6 | grey |
| Developmental Disorder,Hereditary Disorder,Ophthalmic Disease,Organismal Injury and Abnormalities | Autosomal recessive congenital cataract | 0.00113 | 2 | FAM126A,JAM3 | grey |
| Embryonic Development,Nervous System Development and Function,Organ Development,Organismal Development,Tissue Development | Development of thalamus | 0.0368 | 1 | TAL2 | grey |
| Endocrine System Development and Function,Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Quantity of 2-arachidonoylglycerol | 0.0296 | 1 | ABHD6 | grey |
| Gene Expression | Initiation of reverse transcription of genomes | 0.0296 | 1 | AKAP13 | grey |
| Gene Expression,Molecular Transport,RNA Trafficking | Localization of mRNA | 0.0198 | 1 | STAU1 | grey |
| Hematological System Development and Function,Hematopoiesis,Humoral Immune Response,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of transitional type 1 B lymphocytes | 0.0271 | 1 | AKAP13 | grey |
| Hematological System Development and Function,Humoral Immune Response,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of naive B cells | 0.0124 | 1 | IKZF3 | grey |
| Hematological System Development and Function,Lymphoid Tissue Structure and Development,Tissue Morphology | Morphology of lymph follicle | 0.0484 | 2 | AKAP13,IKZF3 | grey |
| Immunological Disease | Hypersensitivity reaction type III | 0.0149 | 1 | IKZF3 | grey |
| Immunological Disease,Inflammatory Response,Organismal Injury and Abnormalities | Inflammation of spleen | 0.0223 | 1 | ABHD6 | grey |
| Infectious Diseases | Replication of Moloney murine leukemia virus | 0.0025 | 1 | TMPO | grey |
| Infectious Diseases | Release of Hepatitis C virus | 0.0223 | 1 | TXNIP | grey |
| Infectious Diseases | Production of Influenza A virus | 0.0247 | 1 | STAU1 | grey |
| Infectious Diseases | Infection of epithelial cell lines | 0.047 | 3 | AKAP13,RREB1,TTC3 | grey |
| Infectious Diseases | Viral entry of lung cancer cell lines | 0.0488 | 1 | AKAP13 | grey |
| Infectious Diseases | Viral entry of carcinoma cell lines | 0.0488 | 1 | AKAP13 | grey |
| Inflammatory Disease,Inflammatory Response,Neurological Disease,Organismal Injury and Abnormalities | Inflammation of cerebellum | 0.00499 | 1 | ABHD6 | grey |
| Inflammatory Response | Cytotoxic reaction of lung cells | 0.00499 | 1 | TTC3 | grey |
| Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Quantity of lysobisphosphatidic acid | 0.00748 | 1 | ABHD6 | grey |
| Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Efflux of cholesterol | 0.0356 | 2 | AKAP13,SNTB1 | grey |
| Lipid Metabolism,Small Molecule Biochemistry | Hydrolysis of lysobisphosphatidic acid | 0.0025 | 1 | ABHD6 | grey |
| Lipid Metabolism,Small Molecule Biochemistry | Degradation of lysobisphosphatidic acid | 0.0025 | 1 | ABHD6 | grey |
| Lipid Metabolism,Small Molecule Biochemistry | Hydrolysis of 1-oleoylglycerol | 0.00499 | 1 | ABHD6 | grey |
| Lipid Metabolism,Small Molecule Biochemistry | Hydrolysis of 2-palmitoylglycerol | 0.00996 | 1 | ABHD6 | grey |
| Lipid Metabolism,Small Molecule Biochemistry | Hydrolysis of 2-arachidonoylglycerol | 0.0149 | 1 | ABHD6 | grey |
| Lipid Metabolism,Small Molecule Biochemistry | Synthesis of ketone body | 0.0271 | 1 | TXNIP | grey |
| Lipid Metabolism,Small Molecule Biochemistry | Metabolism of ceramide | 0.0441 | 1 | CLN8 | grey |
| Lipid Metabolism,Small Molecule Biochemistry | Hydrolysis of phospholipid | 0.0478 | 2 | ABHD6,MTMR7 | grey |
| Molecular Transport | Nuclear export | 0.00464 | 3 | AKAP13,THOC6,U2AF1L4 | grey |
| Molecular Transport | Abnormal quantity of blood urea nitrogen | 0.0124 | 1 | IKZF3 | grey |
| Molecular Transport | Export of molecule | 0.018 | 4 | AKAP13,SNTB1,THOC6,U2AF1L4 | grey |
| Molecular Transport,RNA Trafficking | Nuclear export of mRNA | 0.024 | 2 | THOC6,U2AF1L4 | grey |
| Neurological Disease,Organismal Injury and Abnormalities,Psychological Disorders,Skeletal and Muscular Disorders | Parkinson's disease | 0.0428 | 3 | HIVEP3,RPS3A,RREB1 | grey |
| Organismal Injury and Abnormalities | Formation of scar tissue | 0.0368 | 1 | TXNIP | grey |
| Skeletal and Muscular System Development and Function,Tissue Morphology | Catabolism of bone | 0.0025 | 1 | HIVEP3 | grey |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Aggressive non-Hodgkin lymphoma | 0.00000065 | 94 | ADA,AHR,ALOX5,ANKRD36,AP4B1,BCL11B,BCL7A,BIRC3,BRAF,BTG1,CCND2,CD19,CD22,CD27,CD36,CD58,CD63,CD70,CDKN2C,CEBPA,CFLAR,CHD3,CIITA,CORO2A,CR2,CREBBP,CRELD2,CSF3R,DMXL1,DSP,EZH2,FBXW7,FCER2,FKBP1A,FOXO1,FOXP1,HIST1H3B,HSP90AB1,HSP90B1,IFNAR2,IGLL1/IGLL5,IKBIP,IL2RB,IL4R,IL9R,IMPDH1,IRF4,IRF8,ITPR1,MCL1,MDM2,MDM4,MGLL,MIR17HG,MKI67,MYO1G,NLRP7,NR3C1,P2RY8,PAG1,PAX5,PCSK5,PIK3CA,PPIA,PPWD1,PRDM1,PSMB2,PTPN14,REL,RRM2,RRM2B,SERPINA1,SETD2,SLC16A1,SLC16A7,SLC29A2,SMARCB1,SPN,SSBP2,TCL1A,TNF,TNFRSF10C,TOP2A,TP63,TPST2,TSHZ2,TTN,TUBA1C,TUBA4A,TUBB3,TUBB4B,TUBG1,TYMS,UQCRC1 | turquoise |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Evans stage IVS neuroblastoma | 0.00000847 | 17 | CSF2RB,CSF3R,FCGR1B,FCGR2A,FCGR2B,FCGR3A/FCGR3B,HSP90AB1,HSP90B1,IL2RB,NR3C1,RARG,TOP2A,TUBA1C,TUBA4A,TUBB3,TUBB4B,TUBG1 | turquoise |
| Cancer,Organismal Injury and Abnormalities | Aggressive cancer | 0.000000653 | 96 | ADA,AHR,ALOX5,ANKRD36,AP4B1,BCL11B,BCL7A,BIRC3,BRAF,BTG1,CCND2,CD19,CD22,CD27,CD36,CD58,CD63,CD70,CDKN2C,CEBPA,CFLAR,CHD3,CIITA,CORO2A,CR2,CREBBP,CRELD2,CSF3R,CYP1B1,DMXL1,DSP,EZH2,FBXW7,FCER2,FKBP1A,FLT1,FOXO1,FOXP1,HIST1H3B,HSP90AB1,HSP90B1,IFNAR2,IGLL1/IGLL5,IKBIP,IL2RB,IL4R,IL9R,IMPDH1,IRF4,IRF8,ITPR1,MCL1,MDM2,MDM4,MGLL,MIR17HG,MKI67,MYO1G,NLRP7,NR3C1,P2RY8,PAG1,PAX5,PCSK5,PIK3CA,PPIA,PPWD1,PRDM1,PSMB2,PTPN14,REL,RRM2,RRM2B,SERPINA1,SETD2,SLC16A1,SLC16A7,SLC29A2,SMARCB1,SPN,SSBP2,TCL1A,TNF,TNFRSF10C,TOP2A,TP63,TPST2,TSHZ2,TTN,TUBA1C,TUBA4A,TUBB3,TUBB4B,TUBG1,TYMS,UQCRC1 | turquoise |
| Cancer,Organismal Injury and Abnormalities | Subcutaneous tumor | 0.000001 | 93 | ABI2,ADARB1,ADGRE5,AHR,ALDH1A1,ALDOA,AP2S1,ARIH2,ARNT,BRAF,CCNC,CCND2,CDC42EP3,CLUH,CNP,COL18A1,COL19A1,COL4A3,COL4A4,COL9A1,CSF1R,CTNND1,CTSC,CUX1,CYP1B1,DDR1,DST,E2F2,EPPK1,ESR1,ESR2,FAS,FKBP1A,FLT1,GABBR1,GALK2,GNAS,HMMR,HSD17B10,HSP90AB1,IFNAR2,KCNG1,KCNN3,LSP1,LYN,MAPK1,MGST1,MLX,MMP11,MPHOSPH8,MTHFD2,MYL6,NR2F1,NR3C1,OBSCN,PIK3CA,PKD1,PLA2G6,PLD3,PLXNC1,PPP1R3D,PRKCI,PRR5,PSMA6,PTGS2,PTTG1,RAP2B,RORA,RXRA,S100A11,SLC2A5,SLC5A3,SMAD3,TARP,TBL1X,TFDP1,TFDP2,TGFBR3,TOP2A,TUBA1C,TUBA4A,TUBB3,TUBB4B,TUBG1,UBAC1,UQCRH,UTRN,VCAN,VCP,VDR,VEGFA,WEE1,ZYX | turquoise |
| Cancer,Organismal Injury and Abnormalities | Recurrent neoplasm | 0.0000013 | 58 | ABCB1,ACTG1,ADA,ANXA1,AURKA,BIRC3,BLMH,BRAF,CD19,CD22,CD33,CD38,CDK4,CSF1R,CSF2RB,CSF3R,CXCR4,CYP51A1,DDR1,ESR1,ESR2,FKBP1A,FLT1,HDAC9,HSP90AB1,HSP90B1,IDH2,IFNAR2,IL2RB,IMPDH1,LIMK1,LYN,MAPK1,MDM2,NLRP7,NR3C1,PIK3CA,PPIA,PSMB10,PSMB2,PTGS2,RARG,RRAS2,RRM2,RRM2B,RXRA,SLAMF7,TGFBR2,TNF,TOP2A,TUBA1C,TUBA4A,TUBB,TUBB3,TUBB4B,TUBG1,TYMS,VEGFA | turquoise |
| Cancer,Organismal Injury and Abnormalities | Benign connective or soft tissue neoplasm | 0.00000184 | 94 | ABI2,ADARB1,ADGRE5,AHR,ALDH1A1,ALDOA,AP2S1,ARIH2,ARNT,BRAF,CCNC,CCND2,CDC42EP3,CLUH,CNP,COL18A1,COL19A1,COL4A3,COL4A4,COL9A1,CSF1R,CTNND1,CTSC,CUX1,CYP1B1,DDR1,DST,E2F2,EPPK1,ESR1,ESR2,EXT1,FAS,FKBP1A,FLNA,FLT1,GABBR1,GALK2,GNAS,HMMR,HSD17B10,HSP90AB1,IDH2,IFNAR2,KCNG1,KCNN3,LSP1,LYN,MAPK1,MGST1,MLX,MMP11,MPHOSPH8,MTHFD2,MYL6,NR2F1,NR3C1,PIK3CA,PKD1,PLA2G6,PLD3,PLXNC1,PPP1R3D,PRR5,PSMA6,PTGS2,PTTG1,RAP2B,RORA,RXRA,S100A11,SETD2,SLC2A5,SLC5A3,TARP,TBL1X,TFDP1,TFDP2,TGFBR3,TOP2A,TUBA1C,TUBA4A,TUBB3,TUBB4B,TUBG1,UBAC1,UQCRH,UTRN,VCAN,VCP,VDR,VEGFA,WEE1,ZYX | turquoise |
| Cancer,Organismal Injury and Abnormalities | Papillary carcinoma | 0.00000342 | 83 | ACP5,ATP1B1,BMP6,BRAF,BUB1B,CADM1,CARD16,CD48,CD70,CDC42EP3,CDC6,CHD3,CIITA,COCH,CR1,CSF1R,CST7,CXCR4,E2F7,EEF1B2,ELOC,FAM111B,FBXW7,FCGBP,FKBP1A,FLT1,FOXO1,GNAS,HLA-B,HMGA1,HSP90AB1,HSP90B1,IGFBP4,IGFBP7,INPP5A,KCNK6,LGALS3,LRP8,LYNX1,MDM4,MKI67,MT1E,NCOA3,NOTCH4,NUSAP1,PDCD2L,PIK3CA,PKM,PNKD,PRKCE,PRR5,PTGS2,PTPRE,RUNX2,S100A11,S100A4,SDHB,SERPINA1,SETD2,SLC5A3,SLC9A3R1,SMC4,TGFBR2,THRB,TIMP1,TIMP2,TIMP3,TLE3,TOP2A,TRAM2,TSHR,TTN,TUBA1C,TUBA4A,TUBB3,TUBB4B,TUBG1,TXNIP,VAV3,VEGFA,VIM,ZC3HAV1L,ZNF677 | turquoise |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Estrogen receptor negative breast tumor | 0.00000687 | 45 | ABCB1,BIRC5,BMPR1A,CAV1,CCND2,CDKN2C,CEBPA,CPEB2,CSF1R,CSF3R,CXCL8,EPS8,ESR1,ESR2,ETS2,FAS,FLT1,FOSL2,GNAS,HSP90AB1,HSP90B1,IL1B,MYB,NT5E,PIK3CA,PRDM1,PTGS2,RRM2,S100A4,TGFBI,TGFBR2,TGFBR3,TIMP1,TIMP2,TIMP3,TNFRSF1B,TOP2A,TUBA1C,TUBA4A,TUBB,TUBB3,TUBB4B,TUBG1,TYMS,WEE1 | turquoise |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Triple negative breast neoplasm | 0.00000778 | 44 | ABCB1,BIRC5,BMPR1A,CAV1,CCND2,CDKN2C,CEBPA,CPEB2,CSF1R,CSF3R,CXCL8,EPS8,ESR1,ESR2,ETS2,FAS,FLT1,FOSL2,GNAS,HSP90AB1,HSP90B1,IL1B,MYB,NT5E,PIK3CA,PTGS2,RRM2,S100A4,TGFBI,TGFBR2,TGFBR3,TIMP1,TIMP2,TIMP3,TNFRSF1B,TOP2A,TUBA1C,TUBA4A,TUBB,TUBB3,TUBB4B,TUBG1,TYMS,WEE1 | turquoise |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Development of mammary tumor | 0.0000089 | 39 | CAV1,CD8A,CDK4,CDKN2C,CHEK1,CREB3,CTNND1,CUX1,E2F2,ESR1,EZH2,FABP5,FBXO4,GADD45A,KIF11,LYN,MDM2,MGAT3,NCOA3,NOTCH4,PDCD5,PIK3CA,PRDX1,PTGS2,PTK2,PTPRE,PTTG1,RASSF1,REL,RUNX2,S100A4,TGFBR2,TGFBR3,TIMP2,TP63,VAV3,VEGFA,WEE1,WNT7B | turquoise |
| Cancer,Organismal Injury and Abnormalities,Tissue Morphology,Tumor Morphology | Morphology of tumor | 0.00000822 | 51 | ANXA1,ARL6IP5,BRAF,CAV1,CCND2,CEBPA,COL18A1,CSTB,CTNND1,ESR2,ETS2,ETV4,EZH2,FAS,FBXW7,FLT1,FURIN,IL18BP,IQGAP2,LDHA,LSP1,MAP3K5,MGAT3,MGAT5,MIF,NLRP3,NR3C1,PRDX1,PRF1,PRKCB,PRKCD,PRKCI,PTGS2,PTPRE,PVT1,RASGRP1,RASSF1,RBL2,SATB1,SIRPA,SNHG7,STAB1,TGFB2,TGFBR2,TIMP1,TIMP2,TLR4,TMBIM6,TNF,VEGFA,WNT7B | turquoise |
| Cardiovascular Disease,Organismal Injury and Abnormalities | Peripheral arterial disease | 0.00000735 | 59 | ADA2,ADGRE5,ALOX5,BAG3,C5AR1,CACYBP,CCR1,CD163,CD36,CLEC2B,CPVL,CSF2RB,CTSA,CTSC,CXCR4,EEF1B2,EIF1B,EVI2A,FCGR2A,FCGR3A/FCGR3B,FPR1,FRG1,FYB1,GLRX,HCAR3,IFI30,IRF8,KCTD12,LILRB2,LYN,MAFB,MARCKS,NGRN,NR3C1,PDLIM5,PIK3IP1,PLAUR,PLXNC1,PLXND1,PSMA2,PTGS2,RAP2B,SAMSN1,SAT1,ST6GAL1,SUB1,TBC1D9B,TGFB2,TNIK,TREM1,TRIM14,TUBA1C,TUBA4A,TUBB3,TUBB4B,TUBG1,UBE2H,VEGFA,ZCCHC10 | turquoise |
| Cell Cycle | Arrest in G1 phase | 0.00000146 | 73 | AHR,ANXA2,APOBEC3A,ARG1,ARNT,BAG3,BAK1,BIRC5,BRAF,CAMKK2,CCNA2,CCND2,CDC6,CDCA2,CDK4,CDS1,CEBPA,CEBPB,CSF1R,CYP1B1,E2F2,EGOT,ESR2,EZH2,FKBP1A,FOXO1,GADD45A,GFI1,GMNN,GSPT1,IGFBP7,IGHM,IL7,ITGAV,ITGB1,KLF10,LGALS1,LGALS3,MAP3K5,MAPK1,MDM2,MDM4,MYB,NCOA3,NFYA,NR3C1,PIAS2,PKM,PPARGC1B,PTGES3,PTK2,RAD17,RASSF1,RASSF6,RB1-DT,RBL2,REL,RFFL,RPL23,RUNX3,SMARCA2,SMARCB1,STK38L,TFDP1,TFDP2,TFRC,TGFBR2,TIMP2,TNF,TOB2,TP63,TXNIP,TYMS | turquoise |
| Cell Cycle | S phase | 0.00000588 | 67 | ARNT,BID,BIRC5,BTLA,CAMK2N1,CAV1,CCL3,CCNA2,CCND2,CDC6,CDK4,CDKN2C,CEBPB,CHEK1,CREBBP,CSF1R,CSTB,CTNND1,E2F2,ESR2,FCER2,GAB1,GADD45A,GFI1,GTF2I,HBEGF,HMGA1,HMOX1,ID2,IL1B,IL4R,IL6R,IL7,ITGB1,LGALS1,LMNB1,LZTS1,MDM2,MXI1,NCOA3,NRIP1,PAX5,PCLAF,PFKFB3,PMEPA1,PRKCD,PSAP,RAD17,RASSF1,RB1-DT,RBL2,RBM5,REL,SMARCB1,SMC1A,SSH2,SUN1,TFDP1,TFDP2,TGFBR2,TNF,TP53I3,TYMS,UHRF1,VEGFA,ZBTB10,ZBTB16 | turquoise |
| Cell Death and Survival | Cytolysis of lymphatic system cells | 0.000000124 | 30 | CD226,CD4,CD48,CD8A,FCER1G,FCGR2A,FCGR2B,GZMA,HCST,IFNAR2,IL15RA,IL21R,ITGAL,LCP2,NFIL3,PRDX1,PRF1,PSME2,REL,RNF19B,SH2D1A,SLAMF7,STAT5B,STX11,TBK1,TBX21,TNF,TOX,TYROBP,VIM | turquoise |
| Cell Death and Survival | Cell death of lung cancer cell lines | 0.0000061 | 69 | ANXA2,ATP1B3,BAK1,BID,BIK,BIRC3,BIRC5,BRAF,CAV1,CCAR2,CDC6,CDKN2C,CEBPA,CEBPB,CERS6,CFLAR,CHEK1,CLPTM1L,COX5A,COX6B1,DSP,EXOG,FAS,GAB1,GADD45A,GNAS,GPI,GPX1,HCST,HIPK2,HMGA1,HSPA5,KEAP1,LGALS3,MAP3K5,MCL1,MDM2,MRPL49,NCOA3,NR3C1,NT5E,PAWR,PDE4D,PIK3C3,PIK3CA,PKM,PMEPA1,PPARGC1B,PRKCB,PRKCD,PRKCE,PTGS2,RABGGTA,RBX1,RRM2,RRM2B,RUNX3,S100A11,S100A4,SOD1,TBK1,TLR4,TNF,TP63,TUBB3,UACA,VDAC1,VEGFA,ZBTB16 | turquoise |
| Cell Death and Survival | Apoptosis of leukemia cell lines | 0.00000772 | 71 | AHR,ARG1,BAK1,BID,BIK,BIRC3,BIRC5,C5AR1,CAV1,CD4,CD55,CD59,CDC6,CDK5,CEBPA,CEBPD,CFLAR,CHEK1,CRH,CSF2RB,CXCR4,EIF4B,ERN1,ESR1,FAS,FCER2,FKBP5,GFI1,GIMAP4,GIMAP5,GNLY,GZMB,HMOX1,HSPA8,IL15RA,IL7,ITGAM,ITGB1,LGALS1,LGALS3,LYN,MCL1,MSRB2,MYB,NFIL3,NOTCH4,NR3C1,PAWR,PAX5,PBX3,PPIA,PRF1,PRKCB,PRKCD,PRKCI,PTK2,PTPRE,PYCARD,RBM5,S100A8,S100A9,SPN,STAT5B,STOML2,TCL1A,TLR2,TNF,TNFRSF25,TOX,TRADD,ZBTB16 | turquoise |
| Cell Death and Survival,Cellular Compromise | Cytotoxicity of lymphatic system cells | 0.00000735 | 42 | BMPR1A,CBLB,CCL5,CD226,CD27,CD300A,CD38,CD48,CD58,CD59,CD69,CD74,CFLAR,CRH,FAS,FCGR2A,FCGR3A/FCGR3B,GZMA,GZMB,HAVCR2,HSPA8,IL21R,IL7,IMPDH1,IRAK1,ITGAL,KLRD1,LAT,LDLR,LGALS3,PIK3CA,PRF1,RASGRP1,SH2D1A,SPN,STAT4,STAT5B,STX7,TBX21,TLR2,TNF,TYROBP | turquoise |
| Cell Death and Survival,Organismal Injury and Abnormalities | Cell death of epithelial cells | 0.00000973 | 119 | AAK1,AHR,ALDH1A1,AMOTL1,APOBEC3B,AURKA,BAK1,BID,BIK,BIRC3,BIRC5,BMP6,BNIP3L,BRAF,CALCR,CD4,CEBPA,CEBPB,CEBPD,CFLAR,CHEK1,CITED2,CR1,CSF1R,CXCL8,DDX17,DYNLL1,EEF2K,ERN1,ESR1,ESR2,FAIM,FAS,FGL2,FOXO1,GADD45A,GAPDH,GNLY,HAX1,HIPK2,HMOX1,HRH2,HSPA5,ID2,IER3,IL1B,IL1RN,IL6R,IQGAP2,IRF4,ITGAV,ITGB1,KLF10,LDHA,LDLR,LYN,MAP3K5,MAPK1,MAPKAPK3,MCL1,MDM2,MIAT,MIF,MLKL,MYB,MZB1,NAMPT,NDUFAB1,NEK6,NLRP3,NR3C1,PAWR,PDE4A,PKD1,PLAUR,PLCB1,PRDX3,PRF1,PRKCB,PRKCD,PRKCI,PTAFR,PTGS2,PTK2,PYCARD,RASGRP1,RASSF1,RASSF4,RBL2,REL,RGMB,RRAS2,RUNX3,SEL1L,SGPP2,SH3BP5,SH3RF1,SLC25A4,SLC8A1,SMAD3,SOD1,SRXN1,STK26,TFRC,TGFBR2,TIAM1,TIMP1,TIMP3,TLR2,TLR4,TMBIM6,TNF,TNFRSF1B,TNFRSF25,TP63,VDAC1,VOPP1,XBP1,ZMYND11 | turquoise |
| Cell Morphology,Cellular Function and Maintenance | Transmembrane potential of mitochondria | 0.0000032 | 58 | ATP5IF1,BAK1,BCL2L2,BID,BIRC5,BNIP3L,CD27,CD4,CD69,CFLAR,CISD2,CLEC11A,CLIC1,ESR2,EYA2,FAS,FPR1,GIMAP5,GNAQ,GNLY,GZMA,GZMB,GZMK,HMOX1,IGHM,IL1B,IL7,LDHA,LGALS1,LGALS2,LYN,MCL1,MSRB2,NDUFAB1,PANK2,PAPOLA,PAWR,PLA2G6,PPA2,PRDX3,PRELID1,PRF1,PRKCD,PRKCE,PYCARD,RTN4,SOD1,SRXN1,STOML2,TCL1A,TIMP3,TNF,VCP,VDAC1,VIM,XBP1,YWHAE,ZBTB16 | turquoise |
| Cell Signaling | Tyrosine phosphorylation | 0.00000372 | 52 | B3GNT5,BSG,CADM1,CBLB,CCL3,CCL5,CCR1,CD19,CD22,CD33,CD36,CD4,CD48,CD55,CD72,CD8A,CLEC7A,CSF1R,DDR1,FAS,FCER1G,FCGR2A,FCGR2B,FGF9,FLNA,IGHM,IL1B,IL7,ITGAM,ITGB1,LAX1,LGALS1,LILRB3,LYN,MIF,PAG1,PPIA,PRDX1,PRKCD,PSAP,PTK2,PTPN14,SAMSN1,SH2D1A,SH3KBP1,SLC3A2,SPN,ST6GAL1,SYN3,TNF,TYROBP,VEGFA | turquoise |
| Cell-To-Cell Signaling and Interaction | Adhesion of lymphatic system cells | 0.00000942 | 37 | ANXA1,ANXA2,CBLB,CCL3,CD48,CD58,CD80,CD99,CXCR3,CXCR4,DIAPH1,FAS,FLOT1,FYB1,ICOSLG/LOC102723996,IL1B,IL6R,IL7,IL7R,ITGAL,ITGB1,LCP2,MYO1G,NR3C1,NSD2,PPIB,RAP1B,RAP2A,RASGRP1,SELPLG,SH2D1A,SKAP1,SPN,SWAP70,TGFBI,TLR4,TNF | turquoise |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function | Binding of lymphocytes | 0.00000525 | 46 | ANXA1,BTLA,CBLB,CCL3,CCL5,CCR1,CD22,CD48,CD58,CD69,CD80,CD86,CD99,CXCR3,CXCR4,DIAPH1,FAS,FCGR3A/FCGR3B,FLOT1,FYB1,HLA-DMA,ICOSLG/LOC102723996,IL1B,IL6R,IL7,IL7R,ITGAL,ITGB1,ITGB7,LCP2,MYO1G,NFATC3,NR3C1,NT5E,PPIB,RAP1B,RAP2A,RASGRP1,SELPLG,SH2D1A,SKAP1,SPN,SWAP70,TFRC,TLR4,TNF | turquoise |
| Cellular Assembly and Organization,Tissue Development | Fibrogenesis | 0.00000371 | 113 | ACTG1,ACTR3,AIF1,AKAP13,ARF1,ARHGAP18,ARHGAP32,ARHGAP6,ARHGEF10,ARPC2,ARRB1,AURKA,BBS4,BIRC5,BRAF,CAMK2D,CAPN3,CAPZB,CAV1,CD14,CD38,CDK4,CFL1,CHCHD2,CLIP1,CNP,CNR1,COL18A1,CORO7/CORO7-PAM16,CRH,CTNND1,CXCL8,DAAM1,DIAPH1,DLGAP5,DOCK5,DPYSL2,DSTN,DYNLL1,DYSF,EPPK1,FBXW7,FCGR2A,FILIP1L,GNAQ,GNG5,GPI,GZMB,HAX1,HBEGF,HSPA5,IL1B,INPP5A,ITGB1,KIF2C,KIRREL1,KISS1R,LIMK1,LIMK2,MAPK1,MARCKSL1,MEF2C,MIF,MINK1,MKKS,MPRIP,MSRB1,MSRB2,MTSS1,MYH11,NCK2,NEK6,NUMA1,NUSAP1,OBSCN,PALLD,PDCD4,PFDN5,PHACTR1,PIP5K1B,PLAUR,PPP1R9A,PRKCD,PRKCE,PRKCI,PTK2,PTPRB,PXN,PYCARD,RASSF1,S100A10,SH3PXD2A,SIRPA,SKIL,SMAD3,STAB1,TGFBI,TGFBR2,TIAM1,TLR2,TLR4,TNF,TNFRSF1B,TP63,TPX2,TTN,TUBA4A,TUBB,TXN,VEGFA,VIM,WDR1,ZYX | turquoise |
| Cellular Compromise,Cellular Function and Maintenance | Endoplasmic reticulum stress response | 0.00000926 | 46 | BAK1,BHLHA15,BID,BIK,CEBPB,COL4A3,COL4A4,CREB3,CXCL8,DERL3,DST,ERN1,ERO1A,FAM129A,FLOT1,HMOX1,HSP90AB1,HSP90B1,HSPA5,HSPE1,HYOU1,KDELR1,MAP3K5,MBTPS2,MGAT2,MIA3,MYH11,P4HB,PIK3C3,PIK3IP1,PLA2G6,RTN1,SCAMP5,SDF2L1,SEL1L,SELENOS,SERP1,SOD1,STUB1,TMBIM6,TMCO1,TNF,UCHL1,UFC1,VCP,XBP1 | turquoise |
| Cellular Compromise,Inflammatory Response | Degranulation of granulocytes | 6.81E-22 | 139 | ADA2,ADGRE5,ALDOA,ALOX5,ANXA1,ANXA2,ARG1,ATP11A,ATP6V0A1,ATP6V1D,C5AR1,C6orf120,CAB39,CCL3,CCT8,CD14,CD300A,CD33,CD36,CD48,CD55,CD58,CD59,CD63,CD93,CFD,CFP,CKAP4,CLEC12A,CLEC4D,CMTM6,COTL1,CPPED1,CR1,CREG1,CRISPLD2,CST3,CSTB,CTSA,CTSC,CXCL8,CYFIP1,CYSTM1,DDOST,DIAPH1,DNAJC3,DOK3,DSP,DYNLL1,FABP5,FCAR,FCER1G,FCGR2A,FCGR2B,FCGR3A/FCGR3B,FCN1,FGL2,FPR1,FUCA2,GNS,GPI,GUSB,GYG1,HEXB,HMOX2,HSP90AB1,HSPA8,HVCN1,IMPDH1,IQGAP2,ITGAL,ITGAM,ITGAV,ITGAX,LAMTOR2,LGALS3,LILRB2,LILRB3,LYZ,MAGT1,MAPK1,MGST1,MIF,MLEC,MYO1F,NDUFC2,PA2G4,PDXK,PGAM1,PGM1,PKM,PLAUR,PPIA,PRDX4,PRKCD,PSAP,PSMA2,PSMA5,PSMB7,PSMC2,PSMD13,PSMD14,PTAFR,PTPRB,PYCARD,QPCT,RAB31,RAB3D,RAP1B,RAP2B,RHOF,S100A11,S100A12,S100A8,S100A9,SERPINA1,SERPINB6,SIRPA,SIRPB1,SLC11A1,SLC2A5,SNAP29,STX11,SURF4,SVIP,TIMP2,TLR2,TNF,TNFRSF1B,TREM1,TREML2,TUBB,TUBB4B,TXNDC5,TYROBP,VCL,VCP,VPS35L,XRCC6 | turquoise |
| Cellular Development,Cellular Growth and Proliferation | Expansion of blood cells | 0.00000128 | 62 | ABCB1,AHR,AURKA,BRAF,BTLA,C5AR1,CCND2,CD163,CD27,CD4,CD55,CD69,CD70,CD80,CD86,CDKN2C,CEBPA,CR2,CSF1R,CSF2RB,CUX1,CXCR3,DNM2,EZH2,FAS,FCGR2B,GFI1,HAVCR2,HMOX1,HSPA8,ICOSLG/LOC102723996,IGHM,IL1B,IL21R,IL4R,IL6R,IL7,IL7R,IL9R,IRF8,LAT,LCP2,LGALS4,LYN,MIR17HG,MYB,MYDGF,PIK3CA,PRF1,REL,STAT4,STAT5B,TBX21,TLR2,TLR4,TNF,TNFRSF13B,TNFRSF17,TNFRSF1B,TOX,VEGFA,ZBTB16 | turquoise |
| Cellular Development,Cellular Growth and Proliferation | Cell proliferation of breast cancer cell lines | 0.0000101 | 115 | ACTN4,AHR,AIM2,ANXA1,ANXA2,ARF1,AURKA,BIRC5,CAV1,CCND2,CD59,CEBPA,CEBPB,CEBPD,CFLAR,CHN2,CISD2,CNKSR1,CXCR3,CXCR4,DDX17,DLGAP5,DTL,DUSP6,EEF1B2,EIF3A,EIF3E,ENAH,ESR1,ESR2,ETS2,EZH2,FABP5,FAS,FBXW7,FLOT1,FOXO1,FOXP1,GATA3,GMNN,GNAS,GPX1,H2AFZ,HAVCR2,HBEGF,HBP1,HMGA1,HSPA5,ICMT,ID2,IER3,IGFBP7,IGKC,IL1B,IRS2,ITGB1,KPNA2,LDHA,LGALS1,LGALS3,MAGED1,MAPK1,MBD2,MCL1,MDM2,MGAT5,MTDH,MYB,MYCBP,NACC2,NCOA3,NFATC4,PA2G4,PAX5,PHGDH,PIK3CA,PIP4K2B,PKM,PLAUR,PPARGC1B,PRKCB,PRKCD,PRKCE,PTK2,PTPRE,PVT1,PYHIN1,RACGAP1,RANBP2,RARRES3,RASSF1,RBX1,RORA,RUNX3,RXRA,S100A4,SAT1,SEL1L,SLC16A1,SMARCB1,SMOX,SOD1,STAT5B,TES,TGFBR2,THEM4,TIMP2,TNF,TP63,TXN,TYMS,UTRN,VDR,VEGFA,XBP1 | turquoise |
| Cellular Development,Cellular Growth and Proliferation,Hematological System Development and Function,Lymphoid Tissue Structure and Development | Expansion of lymphocytes | 0.00000313 | 49 | AHR,AURKA,BRAF,BTLA,C5AR1,CCND2,CD27,CD4,CD55,CD69,CD70,CD80,CD86,CDKN2C,CR2,CXCR3,DNM2,FAS,FCGR2B,GFI1,HAVCR2,HSPA8,ICOSLG/LOC102723996,IGHM,IL1B,IL21R,IL4R,IL6R,IL7,IL7R,IRF8,LAT,LCP2,MIR17HG,MYB,MYDGF,PIK3CA,PRF1,REL,STAT4,STAT5B,TBX21,TLR2,TNF,TNFRSF13B,TNFRSF17,TNFRSF1B,TOX,ZBTB16 | turquoise |
| Cellular Growth and Proliferation | Colony formation | 0.00000909 | 137 | AHR,ALDH1A1,ANXA1,ANXA7,ARHGAP32,BACH2,BAG3,BIRC5,BNIP3L,BRAF,CADM1,CAV1,CBLB,CCL3,CD19,CD4,CDCA7,CDCA7L,CEBPA,CEBPB,CEMIP2,CHEK1,CLEC11A,CNKSR1,CREBBP,CSF1R,CSF2RB,CSF3R,CXCL8,CYTOR,DDX5,DUSP6,ENO1,ESR1,ESR2,FAS,FGF9,FLT1,FRS2,GADD45A,GNAQ,GZMB,HDGF,HMGA1,HMOX1,HSPA9,ICMT,IGFBP4,IGFBP7,IL1B,IL1RN,IL32,IL6R,IL7,IRF8,KPNA2,LGALS3,LZTS1,MAPK1,MDM2,MDM4,MGLL,MIF,MSI2,MT1X,MYB,MYCBP,NCOA3,NEAT1,NEK6,NFATC3,NFIL3,NR3C1,NRCAM,NSD2,OBSCN,PAX5,PHC1,PIK3C3,PIK3CA,PIK3R5,PIK3R6,PKM,PLA2G16,PLAUR,PRKCB,PRKCD,PRKCI,PTAFR,PTGS2,PTK2,PTTG1,PXN,PYCARD,RAD17,RARG,RASSF1,RBL2,RFFL,RPS6KA6,RRM2,RUNX2,RUNX3,S100A10,S100A4,S100A6,SATB1,SEC62,SEL1L,SELENOH,SERPINA1,SLC3A2,SMARCA2,SMARCB1,SOCS2,SOD1,SPRY1,ST6GAL1,STAT5B,STK26,TES,TGFB2,THRB,TIAM1,TLR2,TLR4,TNF,TOX,TP63,TSHR,UBE2C,UBE2N,VAV3,VCAN,VEGFA,XBP1,ZBTB16 | turquoise |
| Cellular Movement | Cellular infiltration by blood cells | 0.000000164 | 109 | ABCB4,ABCG1,ADA,AHR,AIM2,ANXA1,ARG1,ARRB1,BCL11B,BID,BMPR1A,BRAF,BSG,C5AR1,CAV1,CBLB,CCL3,CCL5,CCR1,CD14,CD300LF,CD36,CD38,CD48,CD55,CD80,CD86,CD93,CEBPA,CIITA,CNP,CNR1,COL4A3,CR1,CR2,CRH,CSF1R,CUX1,CX3CR1,CXCL2,CXCL8,CXCR3,CXCR5,ESR1,ESR2,FAS,FCAR,FCER1G,FCGR2B,FLT1,FPR1,GBA,GPR18,HMOX1,HSPA5,HYOU1,IGHE,IL15RA,IL16,IL18BP,IL1B,IL1RN,IL2RB,IL4R,IL6R,IL7,ITGAL,ITGAM,ITGB1,LDLR,LGALS1,LGALS3,LILRB3,LIMK1,LMNB1,MAP3K5,MIF,NAAA,NDST1,NINJ1,NLRP3,NT5E,PPIA,PRDM1,PRF1,PRKCD,PTGS2,RUNX3,S100A10,S100A8,S100A9,SELPLG,SERPINA1,SGPP1,SGPP2,SMAD3,STAT5B,TBX21,TGFBR2,TIMP1,TIMP3,TLR2,TLR4,TNF,TNFRSF1B,TREM1,TSHR,VAV3,ZBTB16 | turquoise |
| Cellular Movement | Cellular infiltration by myeloid cells | 0.00000922 | 80 | AIM2,ANXA1,ARG1,ARRB1,BID,BRAF,BSG,C5AR1,CAV1,CCL3,CCL5,CCR1,CD14,CD300LF,CD36,CD48,CD55,CNP,CNR1,COL4A3,CR1,CRH,CSF1R,CX3CR1,CXCL2,CXCL8,CXCR5,FAS,FCAR,FCER1G,FLT1,FPR1,GBA,GPR18,HMOX1,HSPA5,IGHE,IL15RA,IL16,IL1B,IL1RN,IL2RB,IL4R,IL6R,ITGAL,ITGAM,ITGB1,LDLR,LGALS1,LGALS3,LIMK1,LMNB1,MAP3K5,MIF,NAAA,NDST1,NINJ1,NLRP3,NT5E,PPIA,PRDM1,PRKCD,PTGS2,RUNX3,S100A10,SERPINA1,SGPP1,SGPP2,SMAD3,TGFBR2,TIMP1,TIMP3,TLR2,TLR4,TNF,TNFRSF1B,TREM1,TSHR,VAV3,ZBTB16 | turquoise |
| Connective Tissue Disorders,Immunological Disease,Inflammatory Disease,Inflammatory Response,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Systemic juvenile idiopathic arthritis | 0.00000252 | 26 | CD80,CD86,DYNLL1,EHD4,EIF1,FGL2,GALNT1,IL1B,IL6R,JMJD1C,MBD2,MCTP2,MIF,MRPS15,MRPS36,NDUFB10,PHF20,RAB1B,RBP7,SEC62,TALDO1,TBRG1,TNF,TPGS2,TRAK2,ZNF281 | turquoise |
| Developmental Disorder,Immunological Disease,Organismal Injury and Abnormalities | Hypoplasia of lymphoid organ | 0.00000336 | 42 | ABCC4,AFF1,AHR,AKAP13,BACH2,BAG3,BCL11A,BCL11B,CBX4,DCLRE1C,ESR1,ESR2,GALNT1,GFI1,HAX1,IGHM,IGKC,IGLL1/IGLL5,IL15RA,IL2RB,IL7,IL7R,LAT,LCP2,LYN,MDM2,MDM4,NFATC3,PCLAF,POU2AF1,PRF1,PTTG1,RHOH,RPS6KA4,RRM2B,SMAD3,SSBP2,STUB1,TNF,VDR,VEGFA,XRCC6 | turquoise |
| Developmental Disorder,Organismal Injury and Abnormalities | Hypoplasia of lymphatic system | 0.00000412 | 43 | ABCC4,AFF1,AHR,AKAP13,BACH2,BAG3,BCL11A,BCL11B,CBX4,DCLRE1C,ESR1,ESR2,GALNT1,GFI1,HAX1,IGHM,IGKC,IGLL1/IGLL5,IL15RA,IL2RB,IL7,IL7R,LAT,LCP2,LYN,MDM2,MDM4,NFATC3,PCLAF,POLM,POU2AF1,PRF1,PTTG1,RHOH,RPS6KA4,RRM2B,SMAD3,SSBP2,STUB1,TNF,VDR,VEGFA,XRCC6 | turquoise |
| Digestive System Development and Function,Hepatic System Development and Function,Organ Development | Response of liver | 0.000000347 | 87 | ABCB4,APOA2,ARIH2,BID,BIRC3,BTLA,CCL3,CCL5,CD14,CD48,CD55,CEBPA,CHCHD2,CNR1,CSF2RB,CSF3R,CXCL2,CXCL8,CXCR3,DDX5,DTX1,E2F2,ESR1,FAIM,FAS,FCGR1B,FCGR2A,FCGR2B,FCGR3A/FCGR3B,FKBP1A,FLT1,GABBR1,GLMP,HAVCR2,HMOX1,HSPA5,IFNAR2,IL1RN,IL2RB,IL4R,IL6R,IL7R,IMPDH1,ITGAM,LAT,LCP2,LDLR,LGALS3,LYN,MAP3K14,MAP3K5,MAPKAPK3,MRS2,NFE2L1,NLRP3,NR3C1,PDE4A,PDE4D,PDE7A,PDE7B,PLAUR,PPIA,PRDM1,PRF1,RASSF1,RXRA,S100A4,SIGMAR1,SOD1,STAB1,STAT4,STUB1,TARP,TBX21,TFRC,TIMP1,TIMP3,TLR4,TNF,TNFRSF13B,TNFRSF1B,TYROBP,UACA,VDR,VSIR,XBP1,ZBTB16 | turquoise |
| Hematological System Development and Function,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of CD4+ T-lymphocytes | 0.00000464 | 47 | AHR,AIM2,CCL5,CCR1,CD4,CD48,CD69,CD70,CD74,CD8A,CIITA,CXCR3,DCLRE1C,DIAPH1,ESR1,ESR2,FOXO1,GNLY,HAX1,HLA-DMA,ID2,IGHM,IL13RA1,IL15RA,IL21R,IL2RB,IL5RA,IL7,ITGAL,ITGAM,ITGB7,LAT,LCP2,LGALS2,NT5E,PRDX1,PRF1,PRKCB,RARG,RASGRP1,RHOH,SELPLG,SH2D1A,SHCBP1,TBX21,TNF,TOX | turquoise |
| Hematological System Development and Function,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of regulatory T lymphocytes | 0.00000576 | 35 | AHR,BACH2,CAMK4,CCL5,CD19,CD27,CD38,CD70,CD80,CD86,CXCR3,FABP5,FCGR2B,HLA-DMA,ICOSLG/LOC102723996,IL2RB,IL7,IL7R,IRAK1,IRF8,KLF10,LDLR,MIF,PTAFR,REL,SELPLG,STAT5B,TLR2,TLR4,TNF,TNFRSF1B,TNFRSF25,TXNIP,VDR,VEGFA | turquoise |
| Hematological System Development and Function,Tissue Morphology | Abnormal number of leukocytes | 0.0000102 | 21 | CD4,CD74,CD80,CD86,CD8A,DENND1B,ESR1,ESR2,HAX1,IGHM,IGKC,IGLL1/IGLL5,IL1RN,IL5RA,IRF8,POLM,PRDX1,REL,SH3BP2,TOX,VDR | turquoise |
| Auditory and Vestibular System Development and Function,Cellular Growth and Proliferation,Connective Tissue Development and Function,Organ Development,Tissue Development | Proliferation of utricular supporting cells | 0.012 | 1 | SOX4 | yellow |
| Behavior,Digestive System Development and Function | Nursing | 0.00909 | 2 | FYN,MYBL1 | yellow |
| Behavior,Organismal Functions | Hypolocomotion of mice | 0.012 | 1 | NT5E | yellow |
| Cancer,Cell Cycle | Aneuploidization of cervical cancer cell lines | 0.012 | 1 | YWHAH | yellow |
| Cancer,Cell Death and Survival,Organismal Injury and Abnormalities,Tumor Morphology | Apoptosis of leukemia cells | 0.00173 | 4 | CDK6,IL15,SMARCA4,TNFRSF10A | yellow |
| Cancer,Cell Death and Survival,Organismal Injury and Abnormalities,Tumor Morphology | Apoptosis of cancer cells | 0.00419 | 6 | CDK6,FHIT,IL15,SMARCA4,SOX4,TNFRSF10A | yellow |
| Cancer,Cell Death and Survival,Organismal Injury and Abnormalities,Tumor Morphology | Delay in cell death of lymphoma cells | 0.00602 | 1 | LEF1 | yellow |
| Cancer,Cellular Development,Cellular Growth and Proliferation,Hematological Disease,Organismal Injury and Abnormalities,Tumor Morphology | Expansion of leukemia cells | 0.012 | 1 | IL15 | yellow |
| Cancer,Cellular Development,Cellular Growth and Proliferation,Organismal Injury and Abnormalities | Formation of squamous carcinoma cells | 0.00602 | 1 | FYN | yellow |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities | Myxoid/round cell liposarcoma | 0.012 | 1 | PIK3CA | yellow |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Metastasis to bone of tumor cell lines | 0.000355 | 2 | NT5E,SMAD3 | yellow |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Delay in initiation of growth of skeletal metastasis | 0.00602 | 1 | SMAD3 | yellow |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Metastasis to bone of carcinoma cell lines | 0.00602 | 1 | NT5E | yellow |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Metastasis to bone of hepatoma cell lines | 0.00602 | 1 | NT5E | yellow |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Giant cell tumor of bone in femur | 0.00602 | 1 | H3F3A/H3F3B | yellow |
| Cancer,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Chondroblastoma in humerus | 0.00602 | 1 | H3F3A/H3F3B | yellow |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Sebaceous gland tumor | 0.000136 | 3 | FHIT,LEF1,PIK3CA | yellow |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Papilloma | 0.00173 | 5 | DUSP5,FHIT,PIK3CA,SMAD3,TRAF3IP2 | yellow |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Development of papilloma | 0.00399 | 3 | DUSP5,SMAD3,TRAF3IP2 | yellow |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Development of skin tumor | 0.00901 | 3 | CDK6,LEF1,TRAF3IP2 | yellow |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Hyperplasia of basal epidermal cells | 0.012 | 1 | PIK3CA | yellow |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Malignant skin appendage neoplasm | 0.012 | 1 | PIK3CA | yellow |
| Cancer,Dermatological Diseases and Conditions,Organismal Injury and Abnormalities,Reproductive System Disease | Intraductal papilloma | 0.012 | 1 | PIK3CA | yellow |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities | Adrenal cortex carcinoma | 0.00101 | 3 | BMPR2,H3F3A/H3F3B,PIK3CA | yellow |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities | Development of endocrine gland tumor | 0.0109 | 4 | BMPR2,H3F3A/H3F3B,PIK3CA,SMARCA4 | yellow |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities,Reproductive System Disease | Sporadic ovarian small cell carcinoma hypercalcemic type | 0.00602 | 1 | SMARCA4 | yellow |
| Cancer,Endocrine System Disorders,Organismal Injury and Abnormalities,Reproductive System Disease | Growth of ovarian tumor | 0.0106 | 2 | NT5E,PIK3CA | yellow |
| Cancer,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Hepatobiliary system cancer | 0.000448 | 56 | ADAM28,AGO2,AP1B1,ARHGEF7,BANK1,BMPR2,C12orf49,CATSPER3,CD58,CDK6,CNST,CRTC3,CTNNA1,DIS3,DOCK9,ELOVL5,FHIT,H3F3A/H3F3B,HCK,HEATR5B,HIP1,HIVEP3,IL15,KCNQ5,LEF1,LHFPL2,MAP2K3,MICAL3,MPRIP,MSI2,NETO1,NT5E,PIK3CA,PLCG1,PRKD3,PRR5L,RASGRP2,RNFT2,RPAIN,SLC2A5,SLC5A3,SMARCA4,SNTB1,SOX4,TCHP,TM6SF1,TMEM131L,TMEM237,TNFSF8,TRAF3IP2,UBASH3B,WDR5B,WDR74,YWHAH,ZDHHC23,ZNF829 | yellow |
| Cancer,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Liver cancer | 0.000774 | 53 | ADAM28,AGO2,AP1B1,ARHGEF7,BANK1,BMPR2,C12orf49,CATSPER3,CD58,CDK6,CRTC3,CTNNA1,DIS3,DOCK9,ELOVL5,FHIT,H3F3A/H3F3B,HCK,HEATR5B,HIVEP3,IL15,KCNQ5,LEF1,LHFPL2,MAP2K3,MICAL3,MPRIP,MSI2,NETO1,NT5E,PIK3CA,PLCG1,PRKD3,PRR5L,RASGRP2,RNFT2,RPAIN,SLC2A5,SLC5A3,SMARCA4,SOX4,TCHP,TM6SF1,TMEM131L,TMEM237,TNFSF8,TRAF3IP2,UBASH3B,WDR5B,WDR74,YWHAH,ZDHHC23,ZNF829 | yellow |
| Cancer,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Liver carcinoma | 0.00153 | 51 | ADAM28,AGO2,AP1B1,ARHGEF7,BANK1,BMPR2,C12orf49,CATSPER3,CD58,CDK6,CRTC3,CTNNA1,DIS3,DOCK9,ELOVL5,FHIT,H3F3A/H3F3B,HCK,HEATR5B,HIVEP3,KCNQ5,LEF1,LHFPL2,MAP2K3,MICAL3,MPRIP,MSI2,NETO1,NT5E,PIK3CA,PLCG1,PRKD3,PRR5L,RASGRP2,RNFT2,RPAIN,SLC2A5,SLC5A3,SMARCA4,SOX4,TCHP,TM6SF1,TMEM131L,TMEM237,TNFSF8,TRAF3IP2,UBASH3B,WDR5B,YWHAH,ZDHHC23,ZNF829 | yellow |
| Cancer,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Liver tumor | 0.0053 | 56 | AAK1,ADAM28,AGO2,AP1B1,ARHGEF7,BANK1,BMPR2,C12orf49,CATSPER3,CD58,CDK6,CRTC3,CTNNA1,DIS3,DOCK9,ELOVL5,FHIT,H3F3A/H3F3B,HCK,HEATR5B,HIVEP3,IL15,KCNQ5,LEF1,LHFPL2,MAP2K3,MICAL3,MPRIP,MSI2,NETO1,NT5E,PIK3CA,PLCG1,PRKD3,PRR5L,RASGRP2,RNFT2,RPAIN,SLC2A5,SLC5A3,SMAD3,SMARCA4,SOX4,STAG3,TCHP,TM6SF1,TMEM131L,TMEM237,TNFSF8,TRAF3IP2,UBASH3B,WDR5B,WDR74,YWHAH,ZDHHC23,ZNF829 | yellow |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Lip and oral cavity carcinoma | 0.00126 | 2 | FHIT,SNTB1 | yellow |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Polyposis | 0.00466 | 3 | FHIT,PIK3CA,PLCG1 | yellow |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Cecum adenocarcinoma | 0.00698 | 10 | BMPR2,DIS3,FYN,MICAL3,NREP,PIK3CA,RNFT2,SMAD3,SMARCA4,ZBTB20 | yellow |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Digestive system cancer | 0.011 | 94 | AAK1,ADAM28,AGO2,AGPAT5,AKAP2,AP1B1,AP3M2,ARHGEF7,BANK1,BHLHE41,BMPR2,C12orf49,CAPN7,CATSPER3,CCDC174,CD58,CDK6,CHML,CNST,CRTC3,CTNNA1,DEF8,DIS3,DOCK9,DUSP5,ELOVL5,FHIT,FYN,GBP5,GLCCI1,GNG3,H3F3A/H3F3B,HCK,HEATR5B,HIP1,HIP1R,HIVEP3,IL15,ITPRIPL2,KCNQ5,LEF1,LHFPL2,LUC7L,MAML3,MAP2K3,MICAL3,MPRIP,MSI2,MYBL1,NAV1,NETO1,NREP,NT5E,PIK3C2B,PIK3CA,PLCG1,PPIL2,PRKD3,PRR5L,RASGRP2,RBMS1,RNFT2,RPAIN,SCML4,SLC2A5,SLC5A3,SMAD3,SMARCA4,SNTB1,SNX29,SOCS5,SOX4,STAG3,SUSD1,TBXA2R,TCHP,TM6SF1,TMEM131L,TMEM237,TNFRSF10A,TNFRSF19,TNFSF8,TRAF3IP2,UBASH3B,WDR5B,WDR74,YWHAH,ZBTB20,ZC2HC1A,ZC3H15,ZDHHC23,ZNF19,ZNF362,ZNF829 | yellow |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities | Salivary duct carcinoma in parotid gland | 0.012 | 1 | PIK3CA | yellow |
| Cancer,Gastrointestinal Disease,Organismal Injury and Abnormalities,Tissue Morphology | Quantity of hyperplastic polyp | 0.00602 | 1 | FHIT | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Accelerated phase BCR-ABL F359V positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Accelerated phase BCR-ABL E255K positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Lymphoid blast phase BCR-ABL F359C positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Lymphoid blast phase BCR-ABL Y253H positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Accelerated phase BCR-ABL F359I positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Myeloid blast phase BCR-ABL Y253H positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Myeloid blast phase BCR-ABL E255K positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Myeloid blast phase BCR-ABL E255V positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Refractory BCR-ABL E255K-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Chemoresistant Philadelphia positive chronic myeloid leukemia in blast crisis | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Accelerated phase BCR-ABL F359C positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Lymphoid blast phase BCR-ABL E255V positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Relapsed BCR-ABL F359V-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Refractory BCR-ABL F359C-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Relapsed BCR-ABL E255V-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Accelerated phase BCR-ABL Y253H positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Refractory BCR-ABL F359V-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Refractory BCR-ABL E255V-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Lymphoid blast phase BCR-ABL F359V positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Relapsed BCR-ABL F359C-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Relapsed BCR-ABL F359I-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Myeloid blast phase BCR-ABL F359C positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Myeloid blast phase BCR-ABL F359V positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Chronic phase BCR-ABL F359I positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Chronic phase BCR-ABL Y253H positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Myeloid blast phase BCR-ABL F359I positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Refractory BCR-ABL F359I-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Lymphoid blast phase BCR-ABL F359I positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Refractory BCR-ABL Y253H-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Chronic phase BCR-ABL F359V positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Chronic phase BCR-ABL E255V positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Chronic phase BCR-ABL E255K positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Accelerated phase BCR-ABL E255V positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Relapsed BCR-ABL E255K-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Chronic phase BCR-ABL F359C positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Lymphoid blast phase BCR-ABL E255K positive Philadelphia-positive chronic myeloid leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Relapsed BCR-ABL Y253H-positive Philadelphia-positive acute lymphoblastic leukemia | 0.00408 | 2 | FYN,HCK | yellow |
| Cancer,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Renal and Urological Disease | Rhabdoid tumor predisposition syndrome type 2 | 0.00602 | 1 | SMARCA4 | yellow |
| Cancer,Immunological Disease,Organismal Injury and Abnormalities | Hyperplasia of spleen | 0.00737 | 3 | GADD45B,MYBL1,TRAF3IP2 | yellow |
| Cancer,Immunological Disease,Organismal Injury and Abnormalities | Hyperplasia of lymph node | 0.0106 | 2 | MYBL1,TRAF3IP2 | yellow |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Medulloblastoma WNT-subtype | 0.000981 | 2 | PIK3CA,SMARCA4 | yellow |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Astrocytoma in posterior cranial fossa | 0.00602 | 1 | H3F3A/H3F3B | yellow |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Medulloblastoma in cerebral hemisphere | 0.00602 | 1 | H3F3A/H3F3B | yellow |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Neuroblastoma in autonomic ganglion | 0.00635 | 2 | PIK3CA,SMARCA4 | yellow |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Astrocytoma in brainstem | 0.0114 | 2 | H3F3A/H3F3B,PIK3CA | yellow |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Non-brainstem pediatric glioblastoma | 0.012 | 1 | H3F3A/H3F3B | yellow |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Pediatric diffuse intrinsic pontine glioma | 0.012 | 1 | H3F3A/H3F3B | yellow |
| Cancer,Neurological Disease,Organismal Injury and Abnormalities | Oligodendroglioma in thalamus | 0.012 | 1 | H3F3A/H3F3B | yellow |
| Cancer,Organismal Functions,Organismal Injury and Abnormalities,Tumor Morphology | Suppression of melanoma | 0.012 | 1 | NT5E | yellow |
| Cancer,Organismal Injury and Abnormalities | Survival of head and neck squamous cell carcinoma | 0.00602 | 1 | FHIT | yellow |
| Cancer,Organismal Injury and Abnormalities | Genitourinary tumor | 0.00898 | 75 | AAK1,ADAM28,AGO2,AGPAT5,AKAP2,AP1B1,AP3M2,ARHGEF7,BMPR2,CAPN7,CCDC174,CDK6,CHML,CRTC3,CTNNA1,DIS3,DOCK9,DUSP5,ELOVL5,FYN,GADD45B,GLCCI1,GNG3,H3F3A/H3F3B,HCK,HEATR5B,HIP1,HIP1R,HIVEP3,HRK,IL15,KCNQ5,LEF1,LHFPL2,LINC02245,LUC7L,MAML3,MAP2K3,MICAL3,MPRIP,MYBL1,NAV1,NETO1,NT5E,PIK3C2B,PIK3CA,PLCG1,PPIL2,PRKD3,RASGRP2,RBMS1,RNFT2,SCML4,SLC2A5,SLC5A3,SMAD3,SMARCA4,SNTB1,SOCS5,SOX4,SSBP1,STAG3,STARD10,SUSD1,TBXA2R,TNFRSF10A,TNFRSF19,WDR74,YWHAH,ZBTB20,ZC3H15,ZDHHC23,ZNF19,ZNF362,ZNF829 | yellow |
| Cancer,Organismal Injury and Abnormalities | Delay in growth of tumor | 0.0114 | 2 | NT5E,SMAD3 | yellow |
| Cancer,Organismal Injury and Abnormalities | KRAS codon 13 mutation positive cancer | 0.012 | 1 | CDK6 | yellow |
| Cancer,Organismal Injury and Abnormalities | Dermoid cyst | 0.012 | 1 | LEF1 | yellow |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Recurrent hormone receptor positive HER2 negative breast cancer | 0.00408 | 2 | CDK6,PIK3CA | yellow |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Androgen-dependent prostate tumor | 0.00602 | 1 | LEF1 | yellow |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Stage 2-3 multicentric invasive breast cancer | 0.012 | 1 | CDK6 | yellow |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease | Stage II-III bilateral invasive breast cancer | 0.012 | 1 | CDK6 | yellow |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease,Tumor Morphology | Progressive hormone receptor positive HER2 negative metastatic breast cancer | 0.00126 | 2 | CDK6,PIK3CA | yellow |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease,Tumor Morphology | Metastatic hormone receptor positive breast carcinoma | 0.00312 | 2 | CDK6,PIK3CA | yellow |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease,Tumor Morphology | Advanced metastatic breast cancer | 0.0114 | 2 | CDK6,PIK3CA | yellow |
| Cancer,Organismal Injury and Abnormalities,Reproductive System Disease,Tumor Morphology | Metastatic luminal B-like breast carcinoma | 0.012 | 1 | PIK3CA | yellow |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Recurrent ALK fusion negative EGFR mutation negative lung squamous cell carcinoma | 0.00126 | 2 | CDK6,PIK3CA | yellow |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Stage IV ALK fusion negative EGFR mutation negative non-small cell lung carcinoma | 0.00408 | 2 | CDK6,PIK3CA | yellow |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Pulmonary metastasis | 0.00477 | 5 | BMPR2,IL15,NT5E,PIK3CA,SSBP1 | yellow |
| Cancer,Organismal Injury and Abnormalities,Respiratory Disease | Lung metastasis of hepatoma cell lines | 0.012 | 1 | NT5E | yellow |
| Cancer,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Sclerosing rhabdomyosarcoma | 0.012 | 1 | PIK3CA | yellow |
| Cancer,Organismal Injury and Abnormalities,Tissue Morphology | Quantity of secondary tumor | 0.0025 | 3 | BMPR2,IL15,NT5E | yellow |
| Cancer,Organismal Injury and Abnormalities,Tissue Morphology,Tumor Morphology | Induction of malignant tumor | 0.00909 | 2 | NT5E,PIK3CA | yellow |
| Carbohydrate Metabolism,Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Quantity of 1-oleoyl lysophosphatidylcholine | 0.012 | 1 | SMAD3 | yellow |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Binding of phosphatidylinositol 3,5-diphosphate | 0.000107 | 2 | HIP1,HIP1R | yellow |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Binding of phosphatidylinositol-3-phosphate | 0.000214 | 2 | HIP1,HIP1R | yellow |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Binding of phosphatidylinositol 3,4-diphosphate | 0.000214 | 2 | HIP1,HIP1R | yellow |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Phosphorylation of phosphatidylinositol phosphate | 0.00228 | 2 | PIK3C2B,PIK3CA | yellow |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Metabolism of phosphoinositide | 0.00972 | 3 | PIK3C2B,PIK3CA,PLCG1 | yellow |
| Carbohydrate Metabolism,Lipid Metabolism,Small Molecule Biochemistry | Metabolism of phosphatidylinositol 4,5-diphosphate | 0.012 | 1 | PLCG1 | yellow |
| Carbohydrate Metabolism,Molecular Transport,Small Molecule Biochemistry | Absorption of D-fructose | 0.00602 | 1 | SLC2A5 | yellow |
| Carbohydrate Metabolism,Nucleic Acid Metabolism,Small Molecule Biochemistry | Hydrolysis of UDP-D-glucose | 0.00602 | 1 | NT5E | yellow |
| Carbohydrate Metabolism,Small Molecule Biochemistry | Hydrolysis of inositol | 0.012 | 1 | PLCG1 | yellow |
| Cardiovascular Disease,Cardiovascular System Development and Function,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities | Hypertrophy of heart | 0.00496 | 8 | BMPR2,DUSP5,HCK,MAP2K3,NT5E,PIK3CA,SMAD3,SMARCA4 | yellow |
| Cardiovascular Disease,Cellular Compromise,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Atrophy of ventricular myocytes | 0.00602 | 1 | MAP2K3 | yellow |
| Cardiovascular Disease,Connective Tissue Disorders,Developmental Disorder,Hereditary Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Loeys-Dietz syndrome type 3 | 0.012 | 1 | SMAD3 | yellow |
| Cardiovascular Disease,Connective Tissue Disorders,Hereditary Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Calcification of joints and arteries | 0.00602 | 1 | NT5E | yellow |
| Cardiovascular Disease,Organismal Injury and Abnormalities | Cardiac lesion | 0.00358 | 6 | CTNNA1,NT5E,PIK3CA,SMAD3,SMARCA4,TBXA2R | yellow |
| Cardiovascular Disease,Organismal Injury and Abnormalities | Fibrosis of heart | 0.00815 | 5 | CTNNA1,PIK3CA,SMAD3,SMARCA4,TBXA2R | yellow |
| Cardiovascular Disease,Organismal Injury and Abnormalities | Injury of heart tissue | 0.012 | 1 | PIK3CA | yellow |
| Cardiovascular System Development and Function | Vascular resistance | 0.000622 | 3 | BMPR2,NT5E,TBXA2R | yellow |
| Cardiovascular System Development and Function | Morphogenesis of cardiovascular system | 0.00275 | 7 | BMPR2,MAML3,MAP2K3,PIK3C2B,SMAD3,SMARCA4,SOX4 | yellow |
| Cardiovascular System Development and Function | Formation of neovasculature | 0.00602 | 1 | LEF1 | yellow |
| Cardiovascular System Development and Function,Cellular Development,Cellular Growth and Proliferation,Organ Development,Skeletal and Muscular System Development and Function,Tissue Development | Proliferation of vascular smooth muscle cells | 0.00384 | 5 | BMPR2,CDK6,SMAD3,SMARCA4,TNFRSF10A | yellow |
| Cardiovascular System Development and Function,Cellular Development,Embryonic Development,Organismal Development,Tissue Development | Differentiation of mesoangioblast | 0.012 | 1 | BHLHE41 | yellow |
| Cardiovascular System Development and Function,Cellular Movement | Migration of pulmonary artery endothelial cells | 0.000214 | 2 | BMPR2,SMAD3 | yellow |
| Cell Cycle | Arrest in S/G2 phase transition of squamous cell carcinoma cell lines | 0.00602 | 1 | FHIT | yellow |
| Cell Cycle | Delay in initiation of G2/M phase of myeloma cell lines | 0.00602 | 1 | TBXA2R | yellow |
| Cell Cycle | Cleavage of cells | 0.00767 | 5 | FYN,IL15,LEF1,PIK3CA,SMAD3 | yellow |
| Cell Cycle,Cell Morphology,Cellular Assembly and Organization,DNA Replication, Recombination, and Repair | Abnormal morphology of chromosomes | 0.00936 | 3 | H3F3A/H3F3B,HIP1R,MYBL1 | yellow |
| Cell Cycle,Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Inflammatory Response | Effector phase of T lymphocytes | 0.00408 | 2 | IL15,PLCG1 | yellow |
| Cell Cycle,Embryonic Development | Cell division of embryonic cells | 0.000739 | 2 | LEF1,PIK3CA | yellow |
| Cell Cycle,Embryonic Development | Arrest in G2/M phase of embryonic stem cells | 0.00602 | 1 | SMARCA4 | yellow |
| Cell Cycle,Embryonic Development,Nervous System Development and Function | Cell division of neuroblasts | 0.012 | 1 | LEF1 | yellow |
| Cell Cycle,Gene Expression | Binding of PAX8 binding site | 0.00602 | 1 | SMAD3 | yellow |
| Cell Cycle,Hematological System Development and Function | Cell division of T lymphocytes | 0.000443 | 3 | FYN,IL15,SMAD3 | yellow |
| Cell Cycle,Hematological System Development and Function,Humoral Immune Response | Mitogenesis of pro-B lymphocytes | 0.00602 | 1 | LEF1 | yellow |
| Cell Cycle,Renal and Urological System Development and Function | S phase of kidney cell lines | 0.00156 | 2 | CDK6,PLCG1 | yellow |
| Cell Cycle,Renal and Urological System Development and Function | Initiation of S phase of kidney cell lines | 0.012 | 1 | CDK6 | yellow |
| Cell Death and Survival | Killing of cells | 0.00479 | 6 | FHIT,FYN,HRK,IL15,PIK3C2B,PRKD3 | yellow |
| Cell Death and Survival | Survival of thymoma cell lines | 0.00602 | 1 | LEF1 | yellow |
| Cell Death and Survival | Delay in cell death of thymoma cell lines | 0.00602 | 1 | LEF1 | yellow |
| Cell Death and Survival | Apoptosis of pro-B lymphocytes | 0.00699 | 2 | SMAD3,SOX4 | yellow |
| Cell Death and Survival | Killing of lymphoblastoid cell lines | 0.012 | 1 | IL15 | yellow |
| Cell Death and Survival | Survival of suprabasal cells | 0.012 | 1 | PIK3CA | yellow |
| Cell Death and Survival,Cell Signaling | Activation of caspase | 0.008 | 3 | HIP1,HIP1R,SMAD3 | yellow |
| Cell Death and Survival,Cellular Development,Cellular Function and Maintenance | Self-renewal of tumor cell lines | 0.0046 | 2 | LEF1,SMARCA4 | yellow |
| Cell Death and Survival,Cellular Development,Cellular Function and Maintenance | Self-renewal of leukemia cell lines | 0.012 | 1 | SMARCA4 | yellow |
| Cell Death and Survival,Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Lipoapoptosis of hepatocytes | 0.00602 | 1 | TNFRSF10A | yellow |
| Cell Death and Survival,Hematological System Development and Function | Survival of hematopoietic cells | 0.00514 | 4 | GADD45B,LEF1,SMARCA4,TRAF3IP2 | yellow |
| Cell Death and Survival,Hematological System Development and Function | Cell viability of B lymphocytes | 0.00708 | 4 | HCK,LEF1,PIK3CA,TRAF3IP2 | yellow |
| Cell Death and Survival,Hematological System Development and Function | Survival of pre-B lymphocytes | 0.00909 | 2 | LEF1,TRAF3IP2 | yellow |
| Cell Death and Survival,Hematological System Development and Function | Survival of central memory cytotoxic T cells | 0.012 | 1 | IL15 | yellow |
| Cell Death and Survival,Neurological Disease,Organismal Injury and Abnormalities | Cell death of cortical neurons | 0.00969 | 5 | CDK6,HIP1,MAP2K3,PIK3CA,TNFRSF10A | yellow |
| Cell Morphology | Cell flattening of prostate cancer cell lines | 0.00602 | 1 | SMARCA4 | yellow |
| Cell Morphology | Surface area of prostate cancer cell lines | 0.00602 | 1 | FYN | yellow |
| Cell Morphology | Cell flattening of breast cancer cell lines | 0.00602 | 1 | SMARCA4 | yellow |
| Cell Morphology | Cell flattening of carcinoma cell lines | 0.012 | 1 | SMARCA4 | yellow |
| Cell Morphology,Cell-mediated Immune Response,Cellular Movement,Hematological System Development and Function,Immune Cell Trafficking | Cell spreading of CD4+ T-lymphocytes | 0.00602 | 1 | PLCG1 | yellow |
| Cell Morphology,Cellular Assembly and Organization,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Nervous System Development and Function,Organismal Development,Tissue Development | Branching of axon terminals | 0.00602 | 1 | FYN | yellow |
| Cell Morphology,Cellular Development,Cellular Growth and Proliferation,Embryonic Development,Nervous System Development and Function,Organ Development,Organ Morphology,Organismal Development,Tissue Development,Visual System Development and Function | Morphogenesis of lens fiber cells | 0.00602 | 1 | FYN | yellow |
| Cell Morphology,Cellular Function and Maintenance | Length of prostate cancer cell lines | 0.00602 | 1 | FYN | yellow |
| Cell Morphology,Cellular Function and Maintenance | Homologous recombination repair of epithelial cells | 0.012 | 1 | FHIT | yellow |
| Cell Morphology,Cellular Growth and Proliferation,Connective Tissue Development and Function,Tissue Development | Size of fibroblast cell lines | 0.00574 | 2 | PIK3CA,SMARCA4 | yellow |
| Cell Morphology,Hematopoiesis,Humoral Immune Response,Immunological Disease,Lymphoid Tissue Structure and Development | Abnormal morphology of pre-B lymphocytes | 0.00836 | 2 | SOX4,TRAF3IP2 | yellow |
| Cell Morphology,Organ Morphology,Skeletal and Muscular System Development and Function,Tissue Morphology | Area of vascular smooth muscle cells | 0.00602 | 1 | MPRIP | yellow |
| Cell Signaling | Transmembrane receptor protein serine/threonine kinase signaling pathway | 0.00358 | 2 | AKAP2,BMPR2 | yellow |
| Cell Signaling,Post-Translational Modification | Delay in tyrosine phosphorylation of protein | 0.012 | 1 | FYN | yellow |
| Cell-mediated Immune Response,Cell-To-Cell Signaling and Interaction,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Stimulation of thymocytes | 0.012 | 1 | FYN | yellow |
| Cell-mediated Immune Response,Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Inflammatory Response | Th2 immune response of T lymphocytes | 0.00516 | 2 | TNFSF8,TRAF3IP2 | yellow |
| Cell-mediated Immune Response,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Differentiation of Th1 cells | 0.0029 | 4 | GADD45B,IL15,LEF1,SMARCA4 | yellow |
| Cell-mediated Immune Response,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Differentiation of helper T lymphocytes | 0.00304 | 6 | GADD45B,IL15,LEF1,SMAD3,SMARCA4,TNFSF8 | yellow |
| Cell-mediated Immune Response,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Development of natural killer T lymphocytes | 0.0046 | 2 | FYN,IL15 | yellow |
| Cell-mediated Immune Response,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Production of alpha-beta T lymphocytes | 0.00602 | 1 | FYN | yellow |
| Cell-mediated Immune Response,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Generation of natural killer T lymphocytes | 0.012 | 1 | IL15 | yellow |
| Cell-mediated Immune Response,Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Arrest in development of alpha-beta T lymphocytes | 0.012 | 1 | FYN | yellow |
| Cell-mediated Immune Response,Cellular Function and Maintenance,Hematological System Development and Function | Homeostasis of memory T lymphocytes | 0.012 | 1 | IL15 | yellow |
| Cell-To-Cell Signaling and Interaction | Penetration of adenocarcinoma cells | 0.012 | 1 | SMAD3 | yellow |
| Cell-To-Cell Signaling and Interaction | Responsiveness of naive T lymphocytes | 0.012 | 1 | IL15 | yellow |
| Cell-To-Cell Signaling and Interaction,Cellular Function and Maintenance,Inflammatory Response | Phagocytosis of Candida albicans | 0.012 | 1 | IL15 | yellow |
| Cell-To-Cell Signaling and Interaction,Cellular Growth and Proliferation,Hematological System Development and Function | Stimulation of T lymphocytes | 0.00969 | 4 | FYN,IL15,PIK3CA,SMAD3 | yellow |
| Cell-To-Cell Signaling and Interaction,Cellular Growth and Proliferation,Hematological System Development and Function | Suppression of macrophages | 0.012 | 1 | IL15 | yellow |
| Cell-To-Cell Signaling and Interaction,Cellular Growth and Proliferation,Hematological System Development and Function,Inflammatory Response | Induction of monocyte-derived dendritic cells | 0.012 | 1 | IL15 | yellow |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function | Response of cytotoxic T cells | 0.00268 | 2 | CD58,IL15 | yellow |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function | Aggregation of blood cells | 0.0073 | 6 | FYN,IL15,RASGRP2,TBXA2R,TRAF3IP2,UBASH3B | yellow |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Hematopoiesis,Immune Cell Trafficking,Inflammatory Response | Activation of thymocytes | 0.00699 | 2 | CD58,FYN | yellow |
| Cell-To-Cell Signaling and Interaction,Hematological System Development and Function,Inflammatory Response | Maintenance of memory cells of T lymphocytes | 0.012 | 1 | IL15 | yellow |
| Cell-To-Cell Signaling and Interaction,Inflammatory Response | Proinflammatory response of microglia | 0.012 | 1 | IL15 | yellow |
| Cell-To-Cell Signaling and Interaction,Nervous System Development and Function | Neurotransmission of mossy fiber synapse | 0.00602 | 1 | NETO1 | yellow |
| Cell-To-Cell Signaling and Interaction,Nervous System Development and Function | Long-term potentiation of dorsal striatum | 0.012 | 1 | FYN | yellow |
| Cellular Assembly and Organization | Rearrangement of actin | 0.000981 | 2 | HCK,PIK3CA | yellow |
| Cellular Assembly and Organization | Formation of cytoskeleton | 0.00125 | 10 | AKAP2,CDK6,FHIT,FYN,HCK,HIP1,HIP1R,MPRIP,SMAD3,SMARCA4 | yellow |
| Cellular Assembly and Organization | Development of mitochondria | 0.00399 | 3 | CRTC3,IL15,SSBP1 | yellow |
| Cellular Assembly and Organization | Association of clathrin-coated vesicles | 0.00602 | 1 | HIP1R | yellow |
| Cellular Assembly and Organization | Biogenesis of mitochondria | 0.00984 | 2 | CRTC3,IL15 | yellow |
| Cellular Assembly and Organization | Binding of nucleus | 0.012 | 1 | SMARCA4 | yellow |
| Cellular Assembly and Organization,Cellular Function and Maintenance | Formation of artificial clathrin cages | 0.000112 | 3 | AP1B1,HIP1,HIP1R | yellow |
| Cellular Assembly and Organization,Cellular Function and Maintenance | Formation of perinuclear vesicles | 0.012 | 1 | HIP1 | yellow |
| Cellular Assembly and Organization,Cellular Function and Maintenance,Tissue Development | Formation of actin filaments | 0.0103 | 7 | CDK6,FYN,HCK,HIP1R,MPRIP,SMAD3,SMARCA4 | yellow |
| Cellular Development,Cellular Function and Maintenance,Cellular Growth and Proliferation | Assembly of mural cells | 0.012 | 1 | SMAD3 | yellow |
| Cellular Development,Cellular Growth and Proliferation | Cell proliferation of lymphoma cell lines | 0.00722 | 5 | IL15,MYBL1,SMAD3,SOX4,TNFSF8 | yellow |
| Cellular Development,Cellular Growth and Proliferation,Connective Tissue Development and Function,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Skeletal and Muscular System Development and Function,Tissue Development | Osteoclastogenesis of bone marrow stromal cells | 0.00602 | 1 | HIVEP3 | yellow |
| Cellular Development,Cellular Growth and Proliferation,Embryonic Development,Hematological System Development and Function,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development,Tissue Development | Formation of splenocytes | 0.000981 | 2 | IL15,TRAF3IP2 | yellow |
| Cellular Development,Cellular Growth and Proliferation,Hair and Skin Development and Function,Organ Development,Tissue Development | Proliferation of epidermal cells | 0.00799 | 5 | CTNNA1,FYN,PRKD3,SMAD3,TRAF3IP2 | yellow |
| Cellular Development,Cellular Growth and Proliferation,Hematological System Development and Function | Cell proliferation of leukocyte cell lines | 0.000502 | 8 | FYN,GADD45B,HCK,HIP1,IL15,MPRIP,MSI2,PIK3CA | yellow |
| Cellular Development,Cellular Growth and Proliferation,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Tissue Development | Generation of monocyte derived langerhans cells | 0.012 | 1 | IL15 | yellow |
| Cellular Development,Cellular Growth and Proliferation,Hematological System Development and Function,Lymphoid Tissue Structure and Development | Proliferation of activated T lymphocytes | 0.0101 | 3 | FYN,IL15,SMAD3 | yellow |
| Cellular Development,Cellular Growth and Proliferation,Hematological System Development and Function,Lymphoid Tissue Structure and Development | Expansion of memory natural killer cells | 0.012 | 1 | IL15 | yellow |
| Cellular Development,Cellular Growth and Proliferation,Hematological System Development and Function,Lymphoid Tissue Structure and Development | Expansion of effector memory RA-positive cytotoxic T cells | 0.012 | 1 | IL15 | yellow |
| Cellular Development,Cellular Growth and Proliferation,Nervous System Development and Function | Growth of glial cell projections | 0.00602 | 1 | FYN | yellow |
| Cellular Development,Cellular Growth and Proliferation,Nervous System Development and Function | Delay in myelination of cells | 0.00602 | 1 | FYN | yellow |
| Cellular Development,Cellular Growth and Proliferation,Nervous System Development and Function,Tissue Development | Generation of retinal ganglion cells | 0.012 | 1 | SOX4 | yellow |
| Cellular Development,Cellular Growth and Proliferation,Organ Development,Skeletal and Muscular System Development and Function,Tissue Development | Proliferation of smooth muscle cells | 0.00455 | 7 | BMPR2,CDK6,IL15,PIK3CA,SMAD3,SMARCA4,TNFRSF10A | yellow |
| Cellular Development,Connective Tissue Development and Function,Embryonic Development,Organismal Development,Tissue Development | Differentiation of adipose mesenchymal stem cells | 0.012 | 1 | SMAD3 | yellow |
| Cellular Development,Connective Tissue Development and Function,Tissue Development | Differentiation of bone cells | 0.00907 | 8 | BMPR2,CDK6,H3F3A/H3F3B,HIVEP3,MAP2K3,SMAD3,TMEM178A,UBASH3B | yellow |
| Cellular Development,Embryonic Development,Hematological System Development and Function,Hematopoiesis,Lymphoid Tissue Structure and Development,Organ Development,Organismal Development | Maturation of pro-T3 thymocytes | 0.00602 | 1 | LEF1 | yellow |
| Cellular Development,Embryonic Development,Organismal Development,Tissue Development | Differentiation of intermediate progenitor cells | 0.00602 | 1 | LEF1 | yellow |
| Cellular Function and Maintenance | Cell saturation density of embryonic cells | 0.00602 | 1 | PLCG1 | yellow |
| Cellular Function and Maintenance | Maintenance of memory natural killer cells | 0.012 | 1 | IL15 | yellow |
| Cellular Function and Maintenance | Maintenance of effector T lymphocytes | 0.012 | 1 | IL15 | yellow |
| Cellular Function and Maintenance,Cellular Growth and Proliferation | Production of hair cells | 0.012 | 1 | SOX4 | yellow |
| Cellular Function and Maintenance,Hematological System Development and Function | Function of CD4+ T-lymphocytes | 0.00677 | 3 | FYN,GADD45B,MAP2K3 | yellow |
| Cellular Function and Maintenance,Hematological System Development and Function,Tissue Development | Function of blood platelets | 0.00443 | 3 | NT5E,RASGRP2,TBXA2R | yellow |
| Cellular Growth and Proliferation,Nervous System Development and Function | Cytostasis of astrocytes | 0.012 | 1 | SMAD3 | yellow |
| Cellular Movement | Chemotaxis of breast cancer cell lines | 0.00699 | 2 | NT5E,SMAD3 | yellow |
| Cellular Movement,Connective Tissue Development and Function,Hair and Skin Development and Function | Chemotaxis of dermal fibroblasts | 0.012 | 1 | SMAD3 | yellow |
| Cellular Movement,Hematological System Development and Function,Hypersensitivity Response,Immune Cell Trafficking | Cellular infiltration by eosinophils | 0.00768 | 3 | HCK,TNFSF8,TRAF3IP2 | yellow |
| Cellular Movement,Hematological System Development and Function,Hypersensitivity Response,Immune Cell Trafficking,Inflammatory Response | Influx of mast cells | 0.00602 | 1 | SMAD3 | yellow |
| Cellular Response to Therapeutics | Sensitivity of hematopoietic cell lines | 0.00602 | 1 | HCK | yellow |
| Connective Tissue Development and Function | Adipogenesis | 0.00195 | 5 | BMPR2,PIK3CA,SMAD3,SMARCA4,TNFRSF19 | yellow |
| Connective Tissue Development and Function,Connective Tissue Disorders,Digestive System Development and Function,Gastrointestinal Disease,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders,Skeletal and Muscular System Development and Function,Tissue Development,Tissue Morphology | Lack of alveolar bone | 0.012 | 1 | LEF1 | yellow |
| Connective Tissue Development and Function,Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders,Skeletal and Muscular System Development and Function,Tissue Development | Abnormal morphology of marrow space | 0.00699 | 2 | HCK,HIVEP3 | yellow |
| Connective Tissue Development and Function,Embryonic Development,Organismal Development,Skeletal and Muscular System Development and Function,Tissue Development | Development of vertebral column | 0.00358 | 3 | ARHGEF7,HIP1,HIP1R | yellow |
| Connective Tissue Development and Function,Skeletal and Muscular System Development and Function | Resorption of bone | 0.00898 | 5 | AGO2,DEF8,HIVEP3,TMEM178A,UBASH3B | yellow |
| Connective Tissue Development and Function,Tissue Development | Maturation of growth plate | 0.012 | 1 | HIVEP3 | yellow |
| Connective Tissue Disorders,Developmental Disorder,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Primrose syndrome | 0.00602 | 1 | ZBTB20 | yellow |
| Connective Tissue Disorders,Developmental Disorder,Hereditary Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Autosomal recessive primary microcephaly 12 | 0.00602 | 1 | CDK6 | yellow |
| Connective Tissue Disorders,Developmental Disorder,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Kyphosis of thoracolumbar spine | 0.00602 | 1 | HIP1 | yellow |
| Connective Tissue Disorders,Inflammatory Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Systemic rheumatic disease | 0.012 | 1 | TRAF3IP2 | yellow |
| Connective Tissue Disorders,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders,Skeletal and Muscular System Development and Function | Abnormal morphology of synovial capsule | 0.00602 | 1 | SMAD3 | yellow |
| Dermatological Diseases and Conditions,Hereditary Disorder,Infectious Diseases,Organismal Injury and Abnormalities | Familial candidiasis type 8 | 0.00602 | 1 | TRAF3IP2 | yellow |
| Dermatological Diseases and Conditions,Hereditary Disorder,Organismal Injury and Abnormalities | Susceptibility to psoriasis 13 | 0.00602 | 1 | TRAF3IP2 | yellow |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Fibrosis of skin lesion | 0.00602 | 1 | SMAD3 | yellow |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Formation of skin lesion | 0.00748 | 4 | CDK6,FYN,LEF1,TRAF3IP2 | yellow |
| Dermatological Diseases and Conditions,Organismal Injury and Abnormalities | Keratotic lesion | 0.012 | 1 | FYN | yellow |
| Developmental Disorder,Hereditary Disorder,Metabolic Disease,Neurological Disease,Ophthalmic Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A6 | 0.00602 | 1 | LARGE1 | yellow |
| Developmental Disorder,Hereditary Disorder,Metabolic Disease,Neurological Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Congenital muscular dystrophy 1D | 0.00602 | 1 | LARGE1 | yellow |
| Developmental Disorder,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities | Autosomal dominant mental retardation type 16 | 0.00602 | 1 | SMARCA4 | yellow |
| Developmental Disorder,Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Renal and Urological Disease,Skeletal and Muscular Disorders | Joubert syndrome type 14 | 0.00602 | 1 | TMEM237 | yellow |
| Developmental Disorder,Skeletal and Muscular Disorders | Congenital malformation of forelimb | 0.012 | 1 | SMAD3 | yellow |
| DNA Replication, Recombination, and Repair | Linking number of DNA | 0.00602 | 1 | LEF1 | yellow |
| DNA Replication, Recombination, and Repair | Recombination | 0.0116 | 5 | LEF1,MYBL1,RPAIN,SOX4,STAG3 | yellow |
| DNA Replication, Recombination, and Repair,Nucleic Acid Metabolism,Small Molecule Biochemistry | Dephosphorylation of adenosine | 0.00602 | 1 | NT5E | yellow |
| DNA Replication, Recombination, and Repair,Nucleic Acid Metabolism,Small Molecule Biochemistry | Hydrolysis of IMP | 0.00602 | 1 | NT5E | yellow |
| DNA Replication, Recombination, and Repair,Nucleic Acid Metabolism,Small Molecule Biochemistry | Catabolism of AMP | 0.012 | 1 | NT5E | yellow |
| DNA Replication, Recombination, and Repair,Nucleic Acid Metabolism,Small Molecule Biochemistry | Degradation of adenosine | 0.012 | 1 | NT5E | yellow |
| Embryonic Development,Nervous System Development and Function,Organ Development,Organismal Development,Tissue Development | Formation of hippocampus | 0.00597 | 4 | CDK6,FYN,LEF1,ZBTB20 | yellow |
| Embryonic Development,Nervous System Development and Function,Organ Development,Organismal Development,Tissue Development | Development of retrosplenial cortex | 0.00602 | 1 | ZBTB20 | yellow |
| Embryonic Development,Nervous System Development and Function,Organ Development,Organismal Development,Tissue Development | Development of subiculum | 0.00602 | 1 | ZBTB20 | yellow |
| Embryonic Development,Organismal Development,Tissue Development | Development of somites | 0.00231 | 4 | MAML3,PIK3CA,SMAD3,SOX4 | yellow |
| Embryonic Development,Organismal Development,Tissue Development | Development of paraxial mesoderm | 0.00574 | 2 | LEF1,SMAD3 | yellow |
| Embryonic Development,Organismal Development,Tissue Development | Formation of mesoderm | 0.00677 | 3 | BMPR2,LEF1,SMAD3 | yellow |
| Embryonic Development,Organismal Development,Tissue Development | Development of axial mesendoderm | 0.012 | 1 | SMAD3 | yellow |
| Endocrine System Development and Function,Lipid Metabolism,Small Molecule Biochemistry,Vitamin and Mineral Metabolism | Catabolism of glucocorticoid | 0.012 | 1 | YWHAH | yellow |
| Endocrine System Disorders,Hereditary Disorder,Organismal Injury and Abnormalities,Reproductive System Disease | Premature ovarian failure type 8 | 0.00602 | 1 | STAG3 | yellow |
| Energy Production,Nucleic Acid Metabolism,Small Molecule Biochemistry | Dephosphorylation of ATP | 0.012 | 1 | NT5E | yellow |
| Gastrointestinal Disease,Hepatic System Disease,Organismal Injury and Abnormalities | Liver lesion | 0.00428 | 58 | AAK1,ADAM28,AGO2,AP1B1,ARHGEF7,BANK1,BMPR2,C12orf49,CATSPER3,CD58,CDK6,CRTC3,CTNNA1,DIS3,DOCK9,ELOVL5,FHIT,GADD45B,H3F3A/H3F3B,HCK,HEATR5B,HIVEP3,IL15,KCNQ5,LEF1,LHFPL2,MAP2K3,MICAL3,MPRIP,MSI2,NETO1,NT5E,PIK3CA,PLCG1,PRKD3,PRR5L,RASGRP2,RNFT2,RPAIN,SLC2A5,SLC5A3,SMAD3,SMARCA4,SOX4,STAG3,TCHP,TM6SF1,TMEM131L,TMEM237,TNFRSF10A,TNFSF8,TRAF3IP2,UBASH3B,WDR5B,WDR74,YWHAH,ZDHHC23,ZNF829 | yellow |
| Gastrointestinal Disease,Inflammatory Disease,Organismal Injury and Abnormalities | Inflammatory disorder of stomach | 0.012 | 1 | SMAD3 | yellow |
| Gastrointestinal Disease,Organ Morphology,Organismal Injury and Abnormalities | Pathological dilation of colon | 0.00602 | 1 | SLC2A5 | yellow |
| Hair and Skin Development and Function,Organismal Injury and Abnormalities | Epithelialization of wound | 0.012 | 1 | SMAD3 | yellow |
| Hematological Disease,Hereditary Disorder,Organismal Injury and Abnormalities | Platelet-type bleeding disorder type 18 | 0.00602 | 1 | RASGRP2 | yellow |
| Hematological Disease,Hereditary Disorder,Organismal Injury and Abnormalities | Susceptibility to platelet-type bleeding disorder type 13 | 0.00602 | 1 | TBXA2R | yellow |
| Hematological Disease,Immunological Disease,Organismal Injury and Abnormalities | Leukocytosis | 0.0107 | 4 | FYN,IL15,SMAD3,TRAF3IP2 | yellow |
| Hematological System Development and Function | Thromboregulation | 0.00602 | 1 | NT5E | yellow |
| Hematological System Development and Function | Bleeding time | 0.00677 | 3 | NT5E,RASGRP2,TBXA2R | yellow |
| Hematological System Development and Function,Hematopoiesis | Development of hematopoietic system | 0.00537 | 8 | AGO2,FYN,H3F3A/H3F3B,HIVEP3,IL15,PLCG1,SMARCA4,TMEM178A | yellow |
| Hematological System Development and Function,Immunological Disease,Lymphoid Tissue Structure and Development,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities,Tissue Morphology | Abnormal morphology of cervical lymph node | 0.0046 | 2 | TBXA2R,TRAF3IP2 | yellow |
| Hematological System Development and Function,Lymphoid Tissue Structure and Development,Organ Morphology,Tissue Morphology | Enlargement of lymph node | 0.00228 | 2 | SMAD3,TRAF3IP2 | yellow |
| Hematological System Development and Function,Lymphoid Tissue Structure and Development,Organ Morphology,Tissue Morphology | Enlargement of cervical lymph node | 0.00602 | 1 | TRAF3IP2 | yellow |
| Hematological System Development and Function,Lymphoid Tissue Structure and Development,Organ Morphology,Tissue Morphology | Mass of lymph node | 0.012 | 1 | IL15 | yellow |
| Hematological System Development and Function,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of memory T lymphocytes | 0.0112 | 3 | GADD45B,IL15,TRAF3IP2 | yellow |
| Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities | Spinocerebellar ataxia 38 | 0.00602 | 1 | ELOVL5 | yellow |
| Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Psychological Disorders | Short sleeper | 0.00602 | 1 | BHLHE41 | yellow |
| Hereditary Disorder,Neurological Disease,Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Infantile hypotonia with psychomotor retardation | 0.00602 | 1 | CCDC174 | yellow |
| Humoral Immune Response,Lymphoid Tissue Structure and Development,Tissue Morphology | Quantity of germinal center | 0.00833 | 3 | BANK1,MYBL1,TRAF3IP2 | yellow |
| Immunological Disease,Organismal Injury and Abnormalities | Injury of spleen | 0.012 | 1 | MAP2K3 | yellow |
| Infectious Diseases | Binding of virus | 0.000529 | 4 | FYN,HCK,IL15,LARGE1 | yellow |
| Infectious Diseases | Binding of HIV | 0.000843 | 3 | FYN,HCK,IL15 | yellow |
| Infectious Diseases | Infection of microvascular endothelial cells | 0.00602 | 1 | PLCG1 | yellow |
| Infectious Diseases | Binding of Mobala virus | 0.00602 | 1 | LARGE1 | yellow |
| Infectious Diseases | Binding of Oliveros virus | 0.012 | 1 | LARGE1 | yellow |
| Infectious Diseases | Binding of lymphocytic choriomeningitis virus | 0.012 | 1 | LARGE1 | yellow |
| Infectious Diseases | Delay in replication of HIV-1 | 0.012 | 1 | HCK | yellow |
| Inflammatory Response | Degranulation by leukocytes | 0.00602 | 1 | HCK | yellow |
| Lipid Metabolism,Molecular Transport,Small Molecule Biochemistry | Accumulation of polyunsaturated fatty acids | 0.00574 | 2 | ELOVL5,HCK | yellow |
| Lipid Metabolism,Small Molecule Biochemistry | Synthesis of lipid | 0.003 | 15 | AGPAT5,BMPR2,ELOVL5,FYN,IL15,LARGE1,PIK3C2B,PIK3CA,PLCG1,PRKD3,RASGRP2,SMAD3,STARD10,TBXA2R,ZBTB20 | yellow |
| Lipid Metabolism,Small Molecule Biochemistry | Synthesis of thromboxane | 0.00909 | 2 | RASGRP2,TBXA2R | yellow |
| Molecular Transport,Small Molecule Biochemistry | Release of adenosine | 0.012 | 1 | NT5E | yellow |
| Nervous System Development and Function,Neurological Disease | Lack of phrenic nerve | 0.00602 | 1 | SLC5A3 | yellow |
| Nervous System Development and Function,Neurological Disease,Organ Morphology,Organismal Development,Organismal Injury and Abnormalities | Lack of mesencephalic tract of the trigeminal nerve | 0.00602 | 1 | LEF1 | yellow |
| Neurological Disease,Organismal Injury and Abnormalities | Kindling | 0.00268 | 2 | AP3M2,FYN | yellow |
| Neurological Disease,Organismal Injury and Abnormalities | Brain cyst | 0.00602 | 1 | NT5E | yellow |
| Neurological Disease,Organismal Injury and Abnormalities | Kindling of amygdala | 0.012 | 1 | FYN | yellow |
| Nucleic Acid Metabolism,Small Molecule Biochemistry | Conversion of AMP | 0.00602 | 1 | NT5E | yellow |
| Nucleic Acid Metabolism,Small Molecule Biochemistry | Generation of ADP | 0.012 | 1 | NT5E | yellow |
| Nucleic Acid Metabolism,Small Molecule Biochemistry | Dephosphorylation of AMP | 0.012 | 1 | NT5E | yellow |
| Organ Morphology | Enlargement of lacrimal gland | 0.00602 | 1 | TRAF3IP2 | yellow |
| Organ Morphology | Enlargement of submandibular gland | 0.00602 | 1 | TRAF3IP2 | yellow |
| Organ Morphology,Reproductive System Development and Function | Quantity of ovary | 0.00514 | 4 | CDK6,FYN,PIK3CA,SMAD3 | yellow |
| Organismal Development | Growth of organism | 0.0029 | 15 | AGO2,BMPR2,CDK6,CTNNA1,H3F3A/H3F3B,HIP1,HIP1R,IL15,MAP2K3,MSI2,PLCG1,SMAD3,SMARCA4,SOX4,ZBTB20 | yellow |
| Organismal Development | Arrest in growth of organism | 0.00678 | 5 | BMPR2,CDK6,PLCG1,SMARCA4,SOX4 | yellow |
| Organismal Injury and Abnormalities | Calcification of joint | 0.012 | 1 | SMAD3 | yellow |
| Organismal Injury and Abnormalities | Regression of endothelial tube | 0.012 | 1 | PLCG1 | yellow |
| Organismal Injury and Abnormalities,Skeletal and Muscular Disorders | Muscle stiffness | 0.012 | 1 | FYN | yellow |
| Organismal Injury and Abnormalities,Tissue Morphology | Quantity of lesion | 0.00137 | 7 | BMPR2,FHIT,HIP1,IL15,LEF1,NT5E,PIK3CA | yellow |
| Organismal Injury and Abnormalities,Tissue Morphology | Width of wound | 0.00602 | 1 | SMAD3 | yellow |
| Organismal Survival | Thriving of mice | 0.012 | 1 | HIP1 | yellow |
| RNA Post-Transcriptional Modification | Processing of siRNA | 0.012 | 1 | AGO2 | yellow |
| Skeletal and Muscular System Development and Function,Tissue Morphology | Catabolism of bone | 0.00602 | 1 | HIVEP3 | yellow |