

GSE9960\_GRAM\_NEG\_AND\_POS\_SEPSIS\_PBM\_UP,GSE9960\_GRAM\_POS\_VS\_GRAM\_NEG\_AND\_POS\_SEPSIS\_PBM\_UP  
GSE3039\_NKT\_CELL\_VS\_ALPHABETA\_CD8\_TCELL\_DN,GSE3039\_NKT\_CELL\_VS\_ALPHABETA\_CD8\_TCELL\_DN  
GSE12392\_CD8A\_POS\_VS\_NEG\_SPLEEN\_IFNB\_KO\_DC\_UP,GSE12392\_CD8A\_POS\_VS\_NEG\_SPLEEN\_IFNB\_KO\_DC\_UP  
GSE24142\_ADULT\_VS\_FETAL\_DN3\_THYMOCYTE\_UP,GSE24142\_ADULT\_VS\_FETAL\_DN3\_THYMOCYTE\_UP  
GSE5589\_WT\_VS\_IL10\_KO\_LPS\_AND\_IL10\_STIM\_MACROPHAGE\_45MIN\_DN,GSE5589\_WT\_VS\_IL10\_KO\_LPS\_AND\_IL10\_STIM\_MACROPHAGE\_45MIN\_DN  
GSE17721\_CTRL\_VS\_CPG\_24H\_BMDC\_DN,GSE17721\_CTRL\_VS\_CPG\_24H\_BMDC\_DN  
GSE24142\_ADULT\_VS\_FETAL\_DN2\_THYMOCYTE\_DN,GSE24142\_ADULT\_VS\_FETAL\_DN2\_THYMOCYTE\_DN  
GSE27670\_CTRL\_VS\_BLIMP1\_TRANSDUCED\_GC\_BCELL\_DN,GSE27670\_CTRL\_VS\_BLIMP1\_TRANSDUCED\_GC\_BCELL\_DN  
GSE42021\_TCONV\_PLN\_VS\_CD24LO\_TCONV\_THYMUS\_UP,GSE42021\_TCONV\_PLN\_VS\_CD24LO\_TCONV\_THYMUS\_UP  
IKEDA\_MIR30\_TARGETS\_UP,IKEDA\_MIR30\_TARGETS\_UP  
BYSTRYKH\_HEMATOPOIESIS STEM\_CELL\_QTL\_CIS,BYSTRYKH\_HEMATOPOIESIS STEM\_CELL\_QTL\_CIS  
GSE1925\_CTRL\_VS\_3H\_IFNG\_STIM\_IFNG\_PRIMED\_MACROPHAGE\_DN,GSE1925\_CTRL\_VS\_3H\_IFNG\_STIM\_IFNG\_PRIMED\_MACROPHAGE\_DN  
MIR3688\_5P,MIR3688\_5P  
GSE21379\_WT\_VS\_SAP\_KO\_TFH\_CD4\_TCELL\_UP,GSE21379\_WT\_VS\_SAP\_KO\_TFH\_CD4\_TCELL\_UP  
RB\_P130\_DN.V1\_DN,RB\_P130\_DN.V1\_DN  
BYSTRYKH\_HEMATOPOIESIS STEM\_CELL\_AND\_BRAIN\_QTL\_TRANS,BYSTRYKH\_HEMATOPOIESIS STEM\_CELL\_AND\_BRAIN\_QTL\_TRANS  
MIR421,MIR421  
GSE26912\_TUMORICIDAL\_VS\_CTRL\_MACROPHAGE\_UP,GSE26912\_TUMORICIDAL\_VS\_CTRL\_MACROPHAGE\_UP  
MIR8066,MIR8066  
MIR6792\_5P,MIR6792\_5P  
MIR4720\_3P,MIR4720\_3P  
GSE19888\_CTRL\_VS\_A3R\_ACT\_TREATED\_MAST\_CELL\_PRETREATED\_WITH\_A3R\_INH\_UP,GSE19888\_CTRL\_VS\_A3R\_ACT\_TREATED\_MAST\_CELL\_PRETREATED\_WITH\_A3R\_INH\_UP  
CHIARADONNA NEOPLASTIC\_TRANSFORMATIONS\_CDC25\_UP,CHIARADONNA NEOPLASTIC\_TRANSFORMATIONS\_CDC25\_UP  
MIR892B,MIR892B  
GGGNRMNNYCAT\_UNKNOWN,GGGNRMNNYCAT\_UNKNOWN  
GOBP\_PROTEIN\_AUTOUBIQUITINATION,GOBP\_PROTEIN\_AUTOUBIQUITINATION  
MIR7153\_5P,MIR7153\_5P  
MIR146A\_5P,MIR146A\_5P  
MIR146B\_5P,MIR146B\_5P  
BRUECKNER\_TARGETS\_OF\_MIRLET7A3\_UP,BRUECKNER\_TARGETS\_OF\_MIRLET7A3\_UP  
GSE20366\_EX\_VIVO\_VS\_DEC205\_CONVERSION\_NAIVE\_CD4\_TCELL\_DN,GSE20366\_EX\_VIVO\_VS\_DEC205\_CONVERSION\_NAIVE\_CD4\_TCELL\_DN  
LUI\_THYROID\_CANCER\_CLUSTER\_1,LUI\_THYROID\_CANCER\_CLUSTER\_1  
PID\_IL2\_1PATHWAY,PID\_IL2\_1PATHWAY  
NAKAYAMA\_FRA2\_TARGETS,NAKAYAMA\_FRA2\_TARGETS  
CHIARADONNA NEOPLASTIC\_TRANSFORMATIONS\_KRAS\_CDC25\_UP,CHIARADONNA NEOPLASTIC\_TRANSFORMATIONS\_KRAS\_CDC25\_UP  
CHESLER BRAIN\_QTL\_CIS,CHESLER BRAIN\_QTL\_CIS  
MIR532\_5P,MIR532\_5P  
WP\_MESODERMAL\_COMMITMENT\_PATHWAY,WP\_MESODERMAL\_COMMITMENT\_PATHWAY  
WP\_HIPPOCAMPUS\_SIGNALING\_DYSREGULATION,WP\_HIPPOCAMPUS\_SIGNALING\_DYSREGULATION  
WEIGEL\_OXIDATIVE\_STRESS\_BY\_HNE\_AND\_TBH,WEIGEL\_OXIDATIVE\_STRESS\_BY\_HNE\_AND\_TBH  
GSE9650\_GP33\_VS\_GP276\_LCMV\_SPECIFIC\_EXHAUSTED\_CD8\_TCELL\_UP,GSE9650\_GP33\_VS\_GP276\_LCMV\_SPECIFIC\_EXHAUSTED\_CD8\_TCELL\_UP  
PID\_ERBB1\_RECEPTOR\_PROXIMAL\_PATHWAY,PID\_ERBB1\_RECEPTOR\_PROXIMAL\_PATHWAY  
MIR4298,MIR4298  
GCAAGGA\_MIR502,GCAAGGA\_MIR502  
MIR6796\_5P,MIR6796\_5P  
MIR3118,MIR3118  
PID\_ER\_NONGENOMIC\_PATHWAY,PID\_ER\_NONGENOMIC\_PATHWAY  
PID\_THROMBIN\_PAR1\_PATHWAY,PID\_THROMBIN\_PAR1\_PATHWAY  
GOBP\_FORMATION\_OF\_PRIMARY\_GERM\_LAYER,GOBP\_FORMATION\_OF\_PRIMARY\_GERM\_LAYER  
GOBP\_CELLULAR\_COMPONENT\_MAINTENANCE,GOBP\_CELLULAR\_COMPONENT\_MAINTENANCE  
PID\_ECADHERIN\_NASCENT\_AJ\_PATHWAY,PID\_ECADHERIN\_NASCENT\_AJ\_PATHWAY  
REACTOME\_HEME\_SIGNALING,REACTOME\_HEME\_SIGNALING  
RIZ\_ERYTHROID\_DIFFERENTIATION\_12HR,RIZ\_ERYTHROID\_DIFFERENTIATION\_12HR  
GOBP\_PYRIMIDINE\_NUCLEOSIDE\_METABOLIC\_PROCESS,GOBP\_PYRIMIDINE\_NUCLEOSIDE\_METABOLIC\_PROCESS  
BILANGES\_RAPAMYCIN\_SENSITIVE\_GENES,BILANGES\_RAPAMYCIN\_SENSITIVE\_GENES  
MIR505\_5P,MIR505\_5P  
HP\_CAPILLARY\_HEMANGIOMA,HP\_CAPILLARY\_HEMANGIOMA  
WP\_FGF23\_SIGNALLING\_IN\_HYPOPHOSPHATEMIC\_RICKETS\_AND\_RELATED\_DISORDERS,WP\_FGF23\_SIGNALLING\_IN\_HYPOPHOSPHATEMIC\_RICKETS\_AND\_RELATED\_DISORDERS  
WP\_DEVELOPMENT\_OF\_URETERIC\_COLLECTION\_SYSTEM,WP\_DEVELOPMENT\_OF\_URETERIC\_COLLECTION\_SYSTEM  
HP\_ASYMMETRIC\_GROWTH,HP\_ASYMMETRIC\_GROWTH  
EPPERT\_CE\_HSC\_LSC,EPPERT\_CE\_HSC\_LSC  
VALK\_AML\_CLUSTER\_3,VALK\_AML\_CLUSTER\_3  
GOBP\_SMAD\_PROTEIN\_COMPLEX\_ASSEMBLY,GOBP\_SMAD\_PROTEIN\_COMPLEX\_ASSEMBLY  
TANG\_SENESCENT\_TP53\_TARGETS\_UP,TANG\_SENESCENT\_TP53\_TARGETS\_UP  
GOBP\_STEM\_CELL\_PROLIFERATION,GOBP\_STEM\_CELL\_PROLIFERATION  
MCCLUNG\_DELTA\_FOSB\_TARGETS\_2WK,MCCLUNG\_DELTA\_FOSB\_TARGETS\_2WK  
NUNODA\_RESPONSE\_TO\_DASATINIB\_IMATINIB\_DN,NUNODA\_RESPONSE\_TO\_DASATINIB\_IMATINIB\_DN  
WP\_HAIR\_FOLLICLE\_DEVELOPMENT\_ORGANOGENESIS\_PART\_2\_OF\_3,WP\_HAIR\_FOLLICLE\_DEVELOPMENT\_ORGANOGENESIS\_PART\_2\_OF\_3  
CAIRO\_PML\_TARGETS\_BOUND\_BY\_MYC\_DN,CAIRO\_PML\_TARGETS\_BOUND\_BY\_MYC\_DN  
WP\_LNCRNAMED-MEDIATED\_MECHANISMS\_OF\_THERAPEUTIC\_RESISTANCE,WP\_LNCRNAMED-MEDIATED\_MECHANISMS\_OF\_THERAPEUTIC\_RESISTANCE  
REACTOME\_SIGNALING\_BY\_KIT\_IN\_DISEASE,REACTOME\_SIGNALING\_BY\_KIT\_IN\_DISEASE  
HP\_ABNORMALITY\_OF\_LIPOPROTEIN\_CHOLESTEROL\_CONCENTRATION,HP\_ABNORMALITY\_OF\_LIPOPROTEIN\_CHOLESTEROL\_CONCENTRATION  
MIR5191,MIR5191  
KEGG\_MELANOMA,KEGG\_MELANOMA  
GOBP\_CYTOPLASMIC\_SEQUESTERING\_OF\_PROTEIN,GOBP\_CYTOPLASMIC\_SEQUESTERING\_OF\_PROTEIN  
STAEGE\_EWING\_FAMILY\_TUMOR,STAEGE\_EWING\_FAMILY\_TUMOR  
GOBP\_NOTOCHORD\_DEVELOPMENT,GOBP\_NOTOCHORD\_DEVELOPMENT  
GOBP\_SERINE\_TRANSPORT,GOBP\_SERINE\_TRANSPORT  
MIR1225\_3P,MIR1225\_3P  
AMIT\_EGF\_RESPONSE\_20\_MCF10A,AMIT\_EGF\_RESPONSE\_20\_MCF10A  
MATZUK\_EMBRYONIC\_GERM\_CELL, MATZUK\_EMBRYONIC\_GERM\_CELL  
SANCHEZ\_MDM2\_TARGETS,SANCHEZ\_MDM2\_TARGETS  
GOBP\_CELL\_CELL\_JUNCTION\_MAINTENANCE,GOBP\_CELL\_CELL\_JUNCTION\_MAINTENANCE  
HP\_SOMATIC\_MOSAICISM,HP\_SOMATIC\_MOSAICISM  
GOBP KERATINOCYTE PROLIFERATION,GOBP KERATINOCYTE PROLIFERATION  
HP\_XANTHOMATOSIS, HP\_XANTHOMATOSIS  
GOBP MESODERM MORPHOGENESIS, GOBP MESODERM MORPHOGENESIS  
PID\_THROMBIN\_PAR4\_PATHWAY,PID\_THROMBIN\_PAR4\_PATHWAY  
GOBP\_RESPONSE\_TO\_CORTICOSTERONE,GOBP\_RESPONSE\_TO\_CORTICOSTERONE  
GOBP\_BUD\_ELONGATION\_INVOLVED\_IN\_LUNG\_BRANCHING,GOBP\_BUD\_ELONGATION\_INVOLVED\_IN\_LUNG\_BRANCHING  
MIR191\_5P,MIR191\_5P  
FAN\_EMBRYONIC\_CTX OPC,FAN\_EMBRYONIC\_CTX OPC  
GOBP ADHERENS JUNCTION MAINTENANCE,GOBP ADHERENS JUNCTION MAINTENANCE  
MURATA VIRULENCE OF H\_PILORI,MURATA VIRULENCE OF H\_PILORI  
GOBP\_MEMBRANE\_DEPOLARIZATION,GOBP\_MEMBRANE\_DEPOLARIZATION  
GOBP\_REGULATION\_OF\_POTASSIUM\_ION\_TRANSPORT,GOBP\_REGULATION\_OF\_POTASSIUM\_ION\_TRANSPORT  
GOBP\_NEPHRON\_TUBULE\_EPITHelial\_CELL\_DIFFERENTIATION,GOBP\_NEPHRON\_TUBULE\_EPITHelial\_CELL\_DIFFERENTIATION  
GOBP METANEPHRIC EPITHELium DEVELOPMENT,GOBP METANEPHRIC EPITHELium DEVELOPMENT  
HOFMANN MYELODYSPlastic SYNDROM RISK UP,HOFMANN MYELODYSPlastic SYNDROM RISK UP  
REACTOME\_SIGNALING\_BY\_FLT3\_ITD\_AND\_TKD\_MUTANTS,REACTOME\_SIGNALING\_BY\_FLT3\_ITD\_AND\_TKD\_MUTANTS  
GOBP LUNG EPITHELium DEVELOPMENT,GOBP LUNG EPITHELium DEVELOPMENT  
HP\_MILIA,HP\_MILIA  
GOBP METANEPHRIC TUBule DEVELOPMENT,GOBP METANEPHRIC TUBule DEVELOPMENT  
WP MIR5093P ALTERATION OF YAPIECM AXIS, WP MIR5093P ALTERATION OF YAPIECM AXIS  
GOBP MAMMARY GLAND ALVEOLUS DEVELOPMENT,GOBP MAMMARY GLAND ALVEOLUS DEVELOPMENT  
REACTOME\_LAMININ\_INTERACTIONS, REACTOME\_LAMININ\_INTERACTIONS  
GOBP POSITIVE REGULATION OF SPROUTING ANGIOGENESIS,GOBP POSITIVE REGULATION OF SPROUTING ANGIOGENESIS  
PYEON HPV POSITIVE TUMORS\_DN,PYEON HPV POSITIVE TUMORS\_DN  
GOBP\_RESPONSE\_TO\_MINERALOCORTICOID,GOBP\_RESPONSE\_TO\_MINERALOCORTICOID  
GOBP\_NEGATIVE\_REGULATION\_OF\_INTERLEUKIN\_6\_MEDIATED\_SIGNALING\_PATHWAY,GOBP\_NEGATIVE\_REGULATION\_OF\_INTERLEUKIN\_6\_MEDIATED\_SIGNALING\_PATHWAY  
GOBP\_NEGATIVE\_REGULATION\_OF\_T\_CELL\_DIFFERENTIATION\_IN\_THYMUS,GOBP\_NEGATIVE\_REGULATION\_OF\_T\_CELL\_DIFFERENTIATION\_IN\_THYMUS  
MIR4749\_5P,MIR4749\_5P  
HP\_LIMBAL\_DERMOID,HP\_LIMBAL\_DERMOID  
GOBP CHOLINE CATABOLIC PROCESS,GOBP CHOLINE CATABOLIC PROCESS  
REACTOME\_CHOLINE\_CATABOLISM, REACTOME\_CHOLINE\_CATABOLISM  
HP\_JUNCTIONAL\_SPLIT,HP\_JUNCTIONAL\_SPLIT  
chr4q22, chr4q22  
BIOCARTA\_FIBRINOLYSIS\_PATHWAY, BIOCARTA\_FIBRINOLYSIS\_PATHWAY  
GOMF THROMBIN\_ACTIVATED\_RECEPTOR\_ACTIVITY,GOMF THROMBIN\_ACTIVATED\_RECEPTOR\_ACTIVITY  
chr15q13, chr15q13  
GOBP NEGATIVE REGULATION OF EPITHELIAL CELL DIFFERENTIATION,GOBP NEGATIVE REGULATION OF EPITHELIAL CELL DIFFERENTIATION