

K\_UP.V1\_UP, MEK\_UP.V1\_UP

HALLMARK\_APICAL\_JUNCTION, HALLMARK\_APICAL\_JUNCTION  
AKT\_UP\_MTOR\_DN.V1\_UP, AKT\_UP\_MTOR\_DN.V1\_UP  
GSE20715\_0H\_VS\_6H\_OZONE\_LUNG\_DN, GSE20715\_0H\_VS\_6H\_OZONE\_LUNG\_DN  
KRAS.DF.V1\_UP, KRAS.DF.V1\_UP  
MEBARKI\_HCC\_PROGENITOR\_WNT\_UP, MEBARKI\_HCC\_PROGENITOR\_WNT\_UP  
DOANE\_RESPONSE\_TO\_ANDROGEN\_UP, DOANE\_RESPONSE\_TO\_ANDROGEN\_UP  
BYSTRYKH\_HEMATOPOIESIS\_STEM\_CELL\_AND\_BRAIN\_QTL\_TRANS, BYSTRYKH\_HEMATOPOIESIS\_STEM\_CELL\_AND\_BRAIN\_QTL\_TRANS  
GSE24814\_STAT5\_KO\_VS\_WT\_PRE\_BCELL\_UP, GSE24814\_STAT5\_KO\_VS\_WT\_PRE\_BCELL\_UP  
PEDERSEN\_METASTASIS\_BY\_ERBB2\_ISOFORM\_4, PEDERSEN\_METASTASIS\_BY\_ERBB2\_ISOFORM\_4  
MODULE\_180, MODULE\_180  
WALLACE\_PROSTATE\_CANCER\_RACE\_DN, WALLACE\_PROSTATE\_CANCER\_RACE\_DN  
BERTUCCI\_MEDULLARY\_VS\_DUCTAL\_BREAST\_CANCER\_DN, BERTUCCI\_MEDULLARY\_VS\_DUCTAL\_BREAST\_CANCER\_DN  
MEISSNER\_NPC\_HCP\_WITH\_H3K4ME3\_AND\_H3K27ME3, MEISSNER\_NPC\_HCP\_WITH\_H3K4ME3\_AND\_H3K27ME3  
GSE22611\_MUTANT\_NOD2\_VS\_CTRL\_TRANSDUCED\_HEK293T\_CELL\_DN, GSE22611\_MUTANT\_NOD2\_VS\_CTRL\_TRANSDUCED\_HEK293T\_CELL\_DN  
GSE29949\_MICROGLIA\_BRAIN\_VS\_CD8\_POS\_DC\_SPLEEN\_DN, GSE29949\_MICROGLIA\_BRAIN\_VS\_CD8\_POS\_DC\_SPLEEN\_DN  
PTEN\_DN.V2\_UP, PTEN\_DN.V2\_UP  
GSE3982\_MAC\_VS\_NEUTROPHIL\_LPS\_STIM\_DN, GSE3982\_MAC\_VS\_NEUTROPHIL\_LPS\_STIM\_DN  
KIM\_RESPONSE\_TO\_TSA\_AND\_DECITABINE\_UP, KIM\_RESPONSE\_TO\_TSA\_AND\_DECITABINE\_UP  
MODULE\_199, MODULE\_199  
DESCARTES\_FETAL\_PLACENTA\_IGFBP1\_DKK1\_POSITIVE\_CELLS, DESCARTES\_FETAL\_PLACENTA\_IGFBP1\_DKK1\_POSITIVE\_CELLS  
TRAVAGLINI\_LUNG\_CAPILLARY\_AEROCYTE\_CELL, TRAVAGLINI\_LUNG\_CAPILLARY\_AEROCYTE\_CELL  
MODULE\_259, MODULE\_259  
PRC2\_SUZ12\_UP.V1\_UP, PRC2\_SUZ12\_UP.V1\_UP  
LIU\_PROSTATE\_CANCER\_UP, LIU\_PROSTATE\_CANCER\_UP  
IGARASHI\_ATF4\_TARGETS\_DN, IGARASHI\_ATF4\_TARGETS\_DN  
MIR4493, MIR4493  
SENESE\_HDAC2\_TARGETS\_DN, SENESE\_HDAC2\_TARGETS\_DN  
GSE29618\_PRE\_VS\_DAY7\_POST\_LAIV\_FLU\_VACCINE\_PDC\_UP, GSE29618\_PRE\_VS\_DAY7\_POST\_LAIV\_FLU\_VACCINE\_PDC\_UP  
GSE30153\_LUPUS\_VS\_HEALTHY\_DONOR\_BCELL\_DN, GSE30153\_LUPUS\_VS\_HEALTHY\_DONOR\_BCELL\_DN  
LEF1\_UP.V1\_UP, LEF1\_UP.V1\_UP  
MODULE\_85, MODULE\_85  
MIR4314, MIR4314  
BLANCO\_MELO\_HUMAN\_PARAINFLUENZA\_VIRUS\_3\_INFECTION\_A594\_CELLS\_DN, BLANCO\_MELO\_HUMAN\_PARAINFLUENZA\_VIRUS\_3\_INFECTION\_A594\_CELLS\_DN  
GSE22886\_IL2\_VS\_IL15\_STIM\_NKCELL\_UP, GSE22886\_IL2\_VS\_IL15\_STIM\_NKCELL\_UP  
GOBP\_HETEROTYPIC\_CELL\_CELL\_ADHESION, GOBP\_HETEROTYPIC\_CELL\_CELL\_ADHESION  
GSE7568\_CTRL\_VS\_24H\_TGFB\_TREATED\_MACROPHAGES\_WITH\_IL4\_AND\_DEXAMETHASONE\_DN, GSE7568\_CTRL\_VS\_24H\_TGFB\_TREATED\_MACROPHAGES\_WITH\_IL4\_AND\_DEXAMETHASONE\_DN  
PGF\_UP.V1\_DN, PGF\_UP.V1\_DN  
HUPER\_BREAST\_BASAL\_VS\_LUMINAL\_DN, HUPER\_BREAST\_BASAL\_VS\_LUMINAL\_DN  
KRAS.LUNG.BREAST\_UP.V1\_DN, KRAS.LUNG.BREAST\_UP.V1\_DN  
GSE6681\_DELETED\_FOXP3\_VS\_WT\_TREG\_UP, GSE6681\_DELETED\_FOXP3\_VS\_WT\_TREG\_UP  
GSE4142\_PLASMA\_CELL\_VS\_MEMORY\_BCELL\_UP, GSE4142\_PLASMA\_CELL\_VS\_MEMORY\_BCELL\_UP  
KEGG\_ARACHIDONIC\_ACID\_METABOLISM, KEGG\_ARACHIDONIC\_ACID\_METABOLISM  
GSE10094\_LCMV\_VS\_LISTERIA\_IND\_EFF\_CD4\_TCELL\_DN, GSE10094\_LCMV\_VS\_LISTERIA\_IND\_EFF\_CD4\_TCELL\_DN  
GOBP\_ARACHIDONIC\_ACID\_METABOLIC\_PROCESS, GOBP\_ARACHIDONIC\_ACID\_METABOLIC\_PROCESS  
BOQUEST\_STEM\_CELL\_CULTURED\_VS\_FRESH\_DN, BOQUEST\_STEM\_CELL\_CULTURED\_VS\_FRESH\_DN  
RICKMAN\_HEAD\_AND\_NECK\_CANCER\_F, RICKMAN\_HEAD\_AND\_NECK\_CANCER\_F  
GOMF\_CORECEPTOR\_ACTIVITY, GOMF\_CORECEPTOR\_ACTIVITY  
MEBARKI\_HCC\_PROGENITOR\_WNT\_UP\_CTNNB1\_DEPENDENT, MEBARKI\_HCC\_PROGENITOR\_WNT\_UP\_CTNNB1\_DEPENDENT  
GOBP\_NEGATIVE\_REGULATION\_OF\_WOUND\_HEALING, GOBP\_NEGATIVE\_REGULATION\_OF\_WOUND\_HEALING  
FOXD3\_TARGET\_GENES, FOXD3\_TARGET\_GENES  
MODULE\_426, MODULE\_426  
GOBP\_NEGATIVE\_REGULATION\_OF\_VASCULAR\_ENDOTHELIAL\_CELL\_PROLIFERATION, GOBP\_NEGATIVE\_REGULATION\_OF\_VASCULAR\_ENDOTHELIAL\_CELL\_PROLIFERATION  
HOLLERN\_SQUAMOUS\_BREAST\_TUMOR, HOLLERN\_SQUAMOUS\_BREAST\_TUMOR  
GOBP\_REGULATION\_OF KERATINOCYTE DIFFERENTIATION, GOBP\_REGULATION\_OF KERATINOCYTE DIFFERENTIATION  
GOBP\_EMBRYONIC\_SKELETAL\_JOINT\_DEVELOPMENT, GOBP\_EMBRYONIC\_SKELETAL\_JOINT\_DEVELOPMENT  
GNF2\_TIMP2, GNF2\_TIMP2  
GSE14769\_UNSTIM\_VS\_20MIN\_LPS\_BMDM\_UP, GSE14769\_UNSTIM\_VS\_20MIN\_LPS\_BMDM\_UP  
REACTOME\_SPHINGOLIPID\_DE\_NOVO\_BIOSYNTHESIS, REACTOME\_SPHINGOLIPID\_DE\_NOVO\_BIOSYNTHESIS  
GOBP\_REGULATION\_OF\_KETONE\_BIOSYNTHETIC\_PROCESS, GOBP\_REGULATION\_OF\_KETONE\_BIOSYNTHETIC\_PROCESS  
GNF2\_MMP11, GNF2\_MMP11  
WP\_OXIDATION\_BY\_CYTOCHROME\_P450, WP\_OXIDATION\_BY\_CYTOCHROME\_P450  
WP\_ESTROGEN\_METABOLISM, WP\_ESTROGEN\_METABOLISM  
GOBP\_SECONDARY\_METABOLIC\_PROCESS, GOBP\_SECONDARY\_METABOLIC\_PROCESS  
GOBP\_PRIMARY\_ALCOHOL\_CATABOLIC\_PROCESS, GOBP\_PRIMARY\_ALCOHOL\_CATABOLIC\_PROCESS  
GOBP\_NEGATIVE\_REGULATION\_OF\_INTERLEUKIN\_8\_PRODUCTION, GOBP\_NEGATIVE\_REGULATION\_OF\_INTERLEUKIN\_8\_PRODUCTION  
GNF2\_CDKN1C, GNF2\_CDKN1C  
GOMF\_MYOSIN\_HEAVY\_CHAIN\_BINDING, GOMF\_MYOSIN\_HEAVY\_CHAIN\_BINDING  
GOMF\_EPHRIN\_RECEPTOR\_ACTIVITY, GOMF\_EPHRIN\_RECEPTOR\_ACTIVITY  
GNF2\_IGFBP1, GNF2\_IGFBP1  
GOBP\_PROGESTERONE\_METABOLIC\_PROCESS, GOBP\_PROGESTERONE\_METABOLIC\_PROCESS  
GOCC\_INTERSTITIAL\_MATRIX, GOCC\_INTERSTITIAL\_MATRIX  
GOBP\_REGULATION\_OF\_SYSTEMIC\_ARTERIAL\_BLOOD\_PRESSURE\_BY\_HORMONE, GOBP\_REGULATION\_OF\_SYSTEMIC\_ARTERIAL\_BLOOD\_PRESSURE\_BY\_HORMONE  
GOBP\_EPOXYGENASE\_P450\_PATHWAY, GOBP\_EPOXYGENASE\_P450\_PATHWAY  
RICKMAN\_HEAD\_AND\_NECK\_CANCER\_E, RICKMAN\_HEAD\_AND\_NECK\_CANCER\_E  
GOBP\_CELL\_CELL\_JUNCTION\_MAINTENANCE, GOBP\_CELL\_CELL\_JUNCTION\_MAINTENANCE  
GOMF\_LIPID\_PHOSPHATASE\_ACTIVITY, GOMF\_LIPID\_PHOSPHATASE\_ACTIVITY  
WP\_EICOSANOID\_METABOLISM\_VIA\_CYTOCHROME\_P450\_MONOOXYGENASES\_CYP\_PATHWAY, WP\_EICOSANOID\_METABOLISM\_VIA\_CYTOCHROME\_P450\_MONOOXYGENASES\_CYP\_PATHWAY  
GOMF\_FRIZZLED\_BINDING, GOMF\_FRIZZLED\_BINDING  
THUM\_MIR21\_TARGETS\_HEART\_DISEASE\_UP, THUM\_MIR21\_TARGETS\_HEART\_DISEASE\_UP  
GOBP\_SURFACTANT\_HOMEOSTASIS, GOBP\_SURFACTANT\_HOMEOSTASIS  
GOBP\_OLEFINIC\_COMPOUND\_BIOSYNTHETIC\_PROCESS, GOBP\_OLEFINIC\_COMPOUND\_BIOSYNTHETIC\_PROCESS  
MODULE\_106, MODULE\_106  
GOMF\_AROMATASE\_ACTIVITY, GOMF\_AROMATASE\_ACTIVITY  
GOBP\_PLASMINOGEN\_ACTIVATION, GOBP\_PLASMINOGEN\_ACTIVATION  
chr2q13, chr2q13  
HP\_PALMOPLANTAR\_BLISTERING, HP\_PALMOPLANTAR\_BLISTERING  
GOMF\_WATER\_TRANSMEMBRANE\_TRANSPORTER\_ACTIVITY, GOMF\_WATER\_TRANSMEMBRANE\_TRANSPORTER\_ACTIVITY  
GOBP\_MESODERMAL\_CELL\_FATE\_COMMITMENT, GOBP\_MESODERMAL\_CELL\_FATE\_COMMITMENT  
WP\_TAMOXIFEN\_METABOLISM, WP\_TAMOXIFEN\_METABOLISM  
WP\_DRUG\_INDUCION\_OF\_BILE\_ACID\_PATHWAY, WP\_DRUG\_INDUCION\_OF\_BILE\_ACID\_PATHWAY  
GOBP\_REGULATION\_OF\_ANIMAL\_ORGAN\_FORMATION, GOBP\_REGULATION\_OF\_ANIMAL\_ORGAN\_FORMATION  
DESCARTES\_MAIN\_FETAL\_MUC13\_DMBT1\_POSITIVE\_CELLS, DESCARTES\_MAIN\_FETAL\_MUC13\_DMBT1\_POSITIVE\_CELLS  
GOBP\_POSITIVE\_REGULATION\_OF\_CORTICOSTEROID\_HORMONE\_SECRETION, GOBP\_POSITIVE\_REGULATION\_OF\_CORTICOSTEROID\_HORMONE\_SECRETION  
GOBP\_NEGATIVE\_REGULATION\_OF\_APOPTOTIC\_PROCESS\_INVOLVED\_IN\_DEVELOPMENT, GOBP\_NEGATIVE\_REGULATION\_OF\_APOPTOTIC\_PROCESS\_INVOLVED\_IN\_DEVELOPMENT  
GOBP\_MESENCHYMAL\_STEM\_CELL\_MAINTENANCE\_INVOLVED\_IN\_NEPHRON\_MORPHOGENESIS, GOBP\_MESENCHYMAL\_STEM\_CELL\_MAINTENANCE\_INVOLVED\_IN\_NEPHRON\_MORPHOGENESIS  
GOBP\_POSITIVE\_REGULATION\_OF\_STEROID\_HORMONE\_SECRETION, GOBP\_POSITIVE\_REGULATION\_OF\_STEROID\_HORMONE\_SECRETION  
GOBP\_POSITIVE\_REGULATION\_OF\_GLUCOCORTICOID\_SECRETION, GOBP\_POSITIVE\_REGULATION\_OF\_GLUCOCORTICOID\_SECRETION