

TANT\_NOD2\_TRANSDUCED\_HEK293T\_CELL\_DN, GSE22611\_UNSTIM\_VS\_2H\_MDP\_STIM\_MUTANT\_NOD2\_TRANSDUCED\_HEK293T\_CELL\_DN

GSE37416\_12H\_VS\_24H\_F\_TULARENSIS\_1VS\_NEUTROPHIL\_UP  
GSE411\_UNSTIM\_VS\_100MIN\_IL6\_STIM\_SOCS3\_KO\_MACROPHAGE\_DN, GSE411\_UNSTIM\_VS\_100MIN\_IL6\_STIM\_SOCS3\_KO\_MACROPHAGE\_DN  
GSE11924\_TH1\_VS\_TH2\_CD4\_TCELL\_UP, GSE11924\_TH1\_VS\_TH2\_CD4\_TCELL\_UP  
GOBP\_GOLGI\_ORGANIZATION, GOBP\_GOLGI\_ORGANIZATION  
ACACTCG, MIR199A, MIR199B, ACACTCG, MIR199A, MIR199B  
GSE4590\_SMALL\_VS\_VPREB\_POS\_LARGE\_PRE\_BCELL\_UP, GSE4590\_SMALL\_VS\_VPREB\_POS\_LARGE\_PRE\_BCELL\_UP  
MIR302A\_5P, MIR302A\_5P  
GOBP\_REGULATION\_OF\_MACROAUTOPHAGY, GOBP\_REGULATION\_OF\_MACROAUTOPHAGY  
GSE25085\_FETAL\_BM\_VS\_ADULT\_BM\_SP4\_THYMIC\_IMPLANT\_UP, GSE25085\_FETAL\_BM\_VS\_ADULT\_BM\_SP4\_THYMIC\_IMPLANT\_UP  
GSE14769\_20MIN\_VS\_360MIN\_LPS\_BMDM\_DN, GSE14769\_20MIN\_VS\_360MIN\_LPS\_BMDM\_DN  
MORE\_REV3L, MORE\_REV3L  
GSE26928\_NAIVE\_VS\_CXCR5\_POS\_CD4\_TCELL\_DN, GSE26928\_NAIVE\_VS\_CXCR5\_POS\_CD4\_TCELL\_DN  
GSE17721\_0.5H\_VS\_12H\_LPS\_BMDC\_DN, GSE17721\_0.5H\_VS\_12H\_LPS\_BMDC\_DN  
GSE22935\_WT\_VS\_MYD88\_KO\_MACROPHAGE\_12H\_MBOVIS\_BCG\_STIM\_UP, GSE22935\_WT\_VS\_MYD88\_KO\_MACROPHAGE\_12H\_MBOVIS\_BCG\_STIM\_UP  
GSE15330\_HSC\_VS\_LYMPHOID\_PRIMED\_MULTIPOTENT\_PROGENITOR\_UP, GSE15330\_HSC\_VS\_LYMPHOID\_PRIMED\_MULTIPOTENT\_PROGENITOR\_UP  
GSE26669\_CTRL\_VS\_COSTIM\_BLOCK\_MLR\_CD4\_TCELL\_UP, GSE26669\_CTRL\_VS\_COSTIM\_BLOCK\_MLR\_CD4\_TCELL\_UP  
GSE17721\_0.5H\_VS\_8H\_LPS\_BMDC\_DN, GSE17721\_0.5H\_VS\_8H\_LPS\_BMDC\_DN  
MIR2116\_5P, MIR2116\_5P  
GOBP\_TOR\_SIGNALING, GOBP\_TOR\_SIGNALING  
MIR1245B\_3P, MIR1245B\_3P  
GOBP\_ALCOHOL\_BIOSYNTHETIC\_PROCESS, GOBP\_ALCOHOL\_BIOSYNTHETIC\_PROCESS  
GOBP\_REGULATION\_OF\_TOR\_SIGNALING, GOBP\_REGULATION\_OF\_TOR\_SIGNALING  
GSE22589\_HEALTHY\_VS\_SIV\_INFECTED\_DC\_DN, GSE22589\_HEALTHY\_VS\_SIV\_INFECTED\_DC\_DN  
MIR653\_3P, MIR653\_3P  
FAX5\_01, FAX5\_01  
GOBP\_STEROL\_METABOLIC\_PROCESS, GOBP\_STEROL\_METABOLIC\_PROCESS  
MIR623, MIR623  
GSE2585\_THYMIC\_MACROPHAGE\_VS\_MTEC\_DN, GSE2585\_THYMIC\_MACROPHAGE\_VS\_MTEC\_DN  
EIF4E\_DN, EIF4E\_DN  
ZHANG\_TARGETS\_OF\_EWSR1\_FLI1\_FUSION, ZHANG\_TARGETS\_OF\_EWSR1\_FLI1\_FUSION  
HP\_BROAD\_FOREHEAD, HP\_BROAD\_FOREHEAD  
GOBP\_PLATELET\_ACTIVATION, GOBP\_PLATELET\_ACTIVATION  
GSE19941\_LPS\_VS\_LPS\_AND\_IL10\_STIM\_IL10\_KO\_MACROPHAGE\_DN, GSE19941\_LPS\_VS\_LPS\_AND\_IL10\_STIM\_IL10\_KO\_MACROPHAGE\_DN  
MIR496, MIR496  
MIR1286, MIR1286  
GSE22589\_HIV\_VS\_HIV\_AND\_SIV\_INFECTED\_DC\_UP, GSE22589\_HIV\_VS\_HIV\_AND\_SIV\_INFECTED\_DC\_UP  
MIR3682\_5P, MIR3682\_5P  
GOMF\_PHOSPHOPROTEIN\_BINDING, GOMF\_PHOSPHOPROTEIN\_BINDING  
MIR5699\_3P, MIR5699\_3P  
MIR185\_3P, MIR185\_3P  
MIR6775\_3P, MIR6775\_3P  
MIR3136\_5P, MIR3136\_5P  
GOBP\_CARDIAC\_CHAMBER\_MORPHOGENESIS, GOBP\_CARDIAC\_CHAMBER\_MORPHOGENESIS  
HP\_GASTROINTESTINAL\_INFLAMMATION, HP\_GASTROINTESTINAL\_INFLAMMATION  
GOBP\_NEURON\_DEATH\_IN\_RESPONSE\_TO\_OXIDATIVE\_STRESS, GOBP\_NEURON\_DEATH\_IN\_RESPONSE\_TO\_OXIDATIVE\_STRESS  
MIR3173\_5P, MIR3173\_5P  
FINETTI\_BREAST\_CANCERS\_KINOME\_GRAY, FINETTI\_BREAST\_CANCERS\_KINOME\_GRAY  
SIRNA\_EIF4GL\_DN, SIRNA\_EIF4GL\_DN  
MIR4540, MIR4540  
MIR7158\_3P, MIR7158\_3P  
BREDEMEYER\_RAG\_SIGNALING\_NOT\_VIA\_ATM\_UP, BREDEMEYER\_RAG\_SIGNALING\_NOT\_VIA\_ATM\_UP  
GOBP\_NEGATIVE\_REGULATION\_OF\_TOR\_SIGNALING, GOBP\_NEGATIVE\_REGULATION\_OF\_TOR\_SIGNALING  
GOBP\_ORGANELLE\_INHERITANCE, GOBP\_ORGANELLE\_INHERITANCE  
GOBP\_LEARNING, GOBP\_LEARNING  
MIR6799\_3P, MIR6799\_3P  
EV11\_05, EV11\_05  
MIR6734\_5P, MIR6734\_5P  
GOBP\_PEPTIDYL\_LYSINE\_DIMETHYLATION, GOBP\_PEPTIDYL\_LYSINE\_DIMETHYLATION  
REACTOME\_SIGNALING\_BY\_ERYTHROPOIETIN, REACTOME\_SIGNALING\_BY\_ERYTHROPOIETIN  
MIR657, MIR657  
GOBP\_REGULATION\_OF\_OXIDATIVE\_STRESS\_INDUCED\_NEURON\_DEATH, GOBP\_REGULATION\_OF\_OXIDATIVE\_STRESS\_INDUCED\_NEURON\_DEATH  
MIR4522, MIR4522  
GOBP\_NEGATIVE\_REGULATION\_OF\_PROTEIN\_TYROSINE\_KINASE\_ACTIVITY, GOBP\_NEGATIVE\_REGULATION\_OF\_PROTEIN\_TYROSINE\_KINASE\_ACTIVITY  
GOMF\_ANDROGEN\_RECEPTOR\_BINDING, GOMF\_ANDROGEN\_RECEPTOR\_BINDING  
MIR6086, MIR6086  
MIR6876\_3P, MIR6876\_3P  
CAMPS\_COLON\_CANCER\_COPY\_NUMBER\_DN, CAMPS\_COLON\_CANCER\_COPY\_NUMBER\_DN  
MIR626, MIR626  
HP\_HASHIMOTO\_THYROIDITIS, HP\_HASHIMOTO\_THYROIDITIS  
MIR4513, MIR4513  
MIR6855\_3P, MIR6855\_3P  
MIR1262, MIR1262  
MIR377\_5P, MIR377\_5P  
GOMF\_PHOSPHOTYROSINE\_RESIDUE\_BINDING, GOMF\_PHOSPHOTYROSINE\_RESIDUE\_BINDING  
WP\_HEDGEHOG\_SIGNALING\_PATHWAY, WP\_HEDGEHOG\_SIGNALING\_PATHWAY  
MIR4701\_3P, MIR4701\_3P  
WP\_GLYCEROPHOSPHOLIPID\_BIOSYNTHETIC\_PATHWAY, WP\_GLYCEROPHOSPHOLIPID\_BIOSYNTHETIC\_PATHWAY  
MIR5591\_3P, MIR5591\_3P  
GOBP\_REGULATION\_OF\_EPIDERMAL\_GROWTH\_FACTOR\_ACTIVATED\_RECEPTOR\_ACTIVITY, GOBP\_REGULATION\_OF\_EPIDERMAL\_GROWTH\_FACTOR\_ACTIVATED\_RECEPTOR\_ACTIVITY  
MIR6736\_5P, MIR6736\_5P  
GOBP\_COPIL\_COATED\_VESICLE\_CARGO\_LOADING, GOBP\_COPIL\_COATED\_VESICLE\_CARGO\_LOADING  
HP\_AKINESIA, HP\_AKINESIA  
GOBP\_DOPAMINERGIC\_NEURON\_DIFFERENTIATION, GOBP\_DOPAMINERGIC\_NEURON\_DIFFERENTIATION  
FONTAINE\_PAPILLARY\_THYROID\_CARCINOMA\_DN, FONTAINE\_PAPILLARY\_THYROID\_CARCINOMA\_DN  
GOBP\_ARF\_PROTEIN\_SIGNAL\_TRANSDUCTION, GOBP\_ARF\_PROTEIN\_SIGNAL\_TRANSDUCTION  
PRDM12\_TARGET\_GENES, PRDM12\_TARGET\_GENES  
GOBP\_HEART TRABECULA\_MORPHOGENESIS, GOBP\_HEART TRABECULA\_MORPHOGENESIS  
GOCC\_DENDRITIC\_SHAFT, GOCC\_DENDRITIC\_SHAFT  
SILIGAN\_TARGETS\_OF\_EWS\_FLI1\_FUSION\_UP, SILIGAN\_TARGETS\_OF\_EWS\_FLI1\_FUSION\_UP  
HOFT\_CD4\_POSITIVE\_ALPHA\_BETA\_MEMORY\_T\_CELL\_BCG\_VACCINE\_AGE\_18\_45YO\_7DY\_UP, HOFT\_CD4\_POSITIVE\_ALPHA\_BETA\_MEMORY\_T\_CELL\_BCG\_VACCINE\_AGE\_18\_45YO\_7DY\_UP  
MIR4525, MIR4525  
REACTOME\_TELOMERE\_C\_STRAND\_SYNTHESIS\_INITIATION, REACTOME\_TELOMERE\_C\_STRAND\_SYNTHESIS\_INITIATION  
RICKMAN\_TUMOR\_DIFFERENTIATED\_WELL\_VS\_MODERATELY\_DN, RICKMAN\_TUMOR\_DIFFERENTIATED\_WELL\_VS\_MODERATELY\_DN  
GSE8515\_IL1\_VS\_IL6\_4H\_STIM\_MAC\_DN, GSE8515\_IL1\_VS\_IL6\_4H\_STIM\_MAC\_DN  
GOBP\_REGULATION\_OF\_HORMONE\_BIOSYNTHETIC\_PROCESS, GOBP\_REGULATION\_OF\_HORMONE\_BIOSYNTHETIC\_PROCESS  
KEGG\_ETHER\_LIPID\_METABOLISM, KEGG\_ETHER\_LIPID\_METABOLISM  
KEGG\_TERPENOID\_BACKBONE\_BIOSYNTHESIS, KEGG\_TERPENOID\_BACKBONE\_BIOSYNTHESIS  
MIR5010\_5P, MIR5010\_5P  
HALLMARK\_NOTCH\_SIGNALING, HALLMARK\_NOTCH\_SIGNALING  
GOBP\_NEURON\_REMODELING, GOBP\_NEURON\_REMODELING  
GOBP\_REGULATION\_OF\_CHEMOKINE\_MEDIATED\_SIGNALING\_PATHWAY, GOBP\_REGULATION\_OF\_CHEMOKINE\_MEDIATED\_SIGNALING\_PATHWAY  
WP\_LNCRNAMEDIATED\_MECHANISMS\_OF\_THERAPEUTIC\_RESISTANCE, WP\_LNCRNAMEDIATED\_MECHANISMS\_OF\_THERAPEUTIC\_RESISTANCE  
GOBP\_INOSITOL\_PHOSPHATE\_BIOSYNTHETIC\_PROCESS, GOBP\_INOSITOL\_PHOSPHATE\_BIOSYNTHETIC\_PROCESS  
KYNG\_DNA\_DAMAGE\_BY\_4NQO, KYNG\_DNA\_DAMAGE\_BY\_4NQO  
GOCC\_DENSE\_CORE\_GRANULE\_MEMBRANE, GOCC\_DENSE\_CORE\_GRANULE\_MEMBRANE  
GOMF\_JUN\_KINASE\_KINASE\_KINASE\_ACTIVITY, GOMF\_JUN\_KINASE\_KINASE\_KINASE\_ACTIVITY  
GOBP\_NEURON\_MATURATION, GOBP\_NEURON\_MATURATION  
GYORFFY\_DOXORUBICIN\_RESISTANCE, GYORFFY\_DOXORUBICIN\_RESISTANCE  
GOCC\_RIPOPTOSOME, GOCC\_RIPOPTOSOME  
GOBP TRABECULA\_FORMATION, GOBP TRABECULA\_FORMATION  
GOMF\_ENDODEOXYRIBONUCLEASE\_ACTIVITY\_PRODUCING\_5\_PHOSPHOMONOESTERS, GOMF\_ENDODEOXYRIBONUCLEASE\_ACTIVITY\_PRODUCING\_5\_PHOSPHOMONOESTERS  
GOBP\_REGULATION\_OF\_VASCULAR\_ENDOTHELIAL\_GROWTH\_FACTOR\_RECEPTOR\_SIGNALING\_PATHWAY, GOBP\_REGULATION\_OF\_VASCULAR\_ENDOTHELIAL\_GROWTH\_FACTOR\_RECEPTOR\_SIGNALING\_PATHWAY  
GOBP\_AXON\_CHOICE\_POINT\_RECOGNITION, GOBP\_AXON\_CHOICE\_POINT\_RECOGNITION  
HP\_RECURRENT\_JOINT\_DISLOCATION, HP\_RECURRENT\_JOINT\_DISLOCATION  
LIU\_TARGETS\_OF\_VMYB\_VS\_CMYB\_UP, LIU\_TARGETS\_OF\_VMYB\_VS\_CMYB\_UP  
HP\_GASTRITIS, HP\_GASTRITIS  
GOBP\_POSITIVE\_REGULATION\_OF\_NUCLEOTIDE\_METABOLIC\_PROCESS, GOBP\_POSITIVE\_REGULATION\_OF\_NUCLEOTIDE\_METABOLIC\_PROCESS  
GOBP\_GLOMERULUS\_VASCULATURE\_MORPHOGENESIS, GOBP\_GLOMERULUS\_VASCULATURE\_MORPHOGENESIS  
REACTOME\_DEFECTIVE\_LFNG\_CAUSES\_SCDO3, REACTOME\_DEFECTIVE\_LFNG\_CAUSES\_SCDO3  
REACTOME\_DEFECTIVE\_RIPK1\_MEDIATED\_REGULATED\_NECROSIS, REACTOME\_DEFECTIVE\_RIPK1\_MEDIATED\_REGULATED\_NECROSIS  
WP\_SEROTONIN\_AND\_ANXIETYRELATED\_EVENTS, WP\_SEROTONIN\_AND\_ANXIETYRELATED\_EVENTS  
MODULE\_417, MODULE\_417  
GOMF\_ENDODEOXYRIBONUCLEASE\_ACTIVITY\_PRODUCING\_3\_PHOSPHOMONOESTERS, GOMF\_ENDODEOXYRIBONUCLEASE\_ACTIVITY\_PRODUCING\_3\_PHOSPHOMONOESTERS  
GOBP\_RENAL\_SYSTEM\_VASCULATURE\_MORPHOGENESIS, GOBP\_RENAL\_SYSTEM\_VASCULATURE\_MORPHOGENESIS  
REACTOME\_CREB1\_PHOSPHORYLATION\_THROUGH\_THE\_ACTIVATION\_OF\_ADENYLATE\_CYCLASE, REACTOME\_CREB1\_PHOSPHORYLATION\_THROUGH\_THE\_ACTIVATION\_OF\_ADENYLATE\_CYCLASE  
GOMF\_CROSSOVER\_JUNCTION\_ENDODEOXYRIBONUCLEASE\_ACTIVITY, GOMF\_CROSSOVER\_JUNCTION\_ENDODEOXYRIBONUCLEASE\_ACTIVITY  
GOBP\_POSITIVE\_REGULATION\_OF\_LONG\_TERM\_SYNAPTIC\_POTENTIATION, GOBP\_POSITIVE\_REGULATION\_OF\_LONG\_TERM\_SYNAPTIC\_POTENTIATION  
GOBP\_PROXIMAL\_TUBULE\_DEVELOPMENT, GOBP\_PROXIMAL\_TUBULE\_DEVELOPMENT  
GOBP\_SPONTANEOUS\_SYNAPTIC\_TRANSMISSION, GOBP\_SPONTANEOUS\_SYNAPTIC\_TRANSMISSION  
GOMF\_LYSOPHOSPHATIDIC\_ACID\_ACYLTRANSFERASE\_ACTIVITY, GOMF\_LYSOPHOSPHATIDIC\_ACID\_ACYLTRANSFERASE\_ACTIVITY  
GOBP\_REGULATION\_OF\_ALDOSTERONE\_METABOLIC\_PROCESS, GOBP\_REGULATION\_OF\_ALDOSTERONE\_METABOLIC\_PROCESS  
GOBP\_POSITIVE\_REGULATION\_OF\_RESPONSE\_TO\_OXIDATIVE\_STRESS, GOBP\_POSITIVE\_REGULATION\_OF\_RESPONSE\_TO\_OXIDATIVE\_STRESS  
GOBP\_ALDOSTERONE\_METABOLIC\_PROCESS, GOBP\_ALDOSTERONE\_METABOLIC\_PROCESS  
GOBP\_AXON\_MIDLINE\_CHOICE\_POINT\_RECOGNITION, GOBP\_AXON\_MIDLINE\_CHOICE\_POINT\_RECOGNITION  
GOBP\_POSITIVE\_REGULATION\_OF\_NECROPTOTIC\_PROCESS, GOBP\_POSITIVE\_REGULATION\_OF\_NECROPTOTIC\_PROCESS  
GOCC\_HOLLIDAY\_JUNCTION\_RESOLVASE\_COMPLEX, GOCC\_HOLLIDAY\_JUNCTION\_RESOLVASE\_COMPLEX  
REACTOME\_PKA\_MEDIATED\_PHOSPHORYLATION\_OF\_KEY\_METABOLIC\_FACTORS, REACTOME\_PKA\_MEDIATED\_PHOSPHORYLATION\_OF\_KEY\_METABOLIC\_FACTORS  
WP\_NEPHROGENESIS, WP\_NEPHROGENESIS  
GOBP\_REGULATION\_OF\_MESENCHYMAL\_STEM\_CELL\_DIFFERENTIATION, GOBP\_REGULATION\_OF\_MESENCHYMAL\_STEM\_CELL\_DIFFERENTIATION  
GOBP\_OVULATION\_FROM\_OVARIAN\_FOLLICLE, GOBP\_OVULATION\_FROM\_OVARIAN\_FOLLICLE  
REACTOME\_TLR3\_MEDIATED\_TICAM1\_DEPENDENT\_PROGRAMMED\_CELL\_DEATH, REACTOME\_TLR3\_MEDIATED\_TICAM1\_DEPENDENT\_PROGRAMMED\_CELL\_DEATH  
GOBP\_POSITIVE\_REGULATION\_OF\_RESPONSE\_TO\_REACTIVE\_OXYGEN\_SPECIES, GOBP\_POSITIVE\_REGULATION\_OF\_RESPONSE\_TO\_REACTIVE\_OXYGEN\_SPECIES  
GOBP\_NEGATIVE\_REGULATION\_OF\_BONE\_MINERALIZATION, GOBP\_NEGATIVE\_REGULATION\_OF\_BONE\_MINERALIZATION  
WP\_MICRORNA\_FOR\_TARGETING\_CANCER\_GROWTH\_AND\_VASCULARIZATION\_IN\_GLIOBLASTOMA, WP\_MICRORNA\_FOR\_TARGETING\_CANCER\_GROWTH\_AND\_VASCULARIZATION\_IN\_GLIOBLASTOMA  
GOBP\_REGULATION\_OF\_GROWTH\_RATE, GOBP\_REGULATION\_OF\_GROWTH\_RATE  
GOBP\_POSITIVE\_REGULATION\_OF\_VASCULAR\_ASSOCIATED\_SMOOTH\_MUSCLE\_CELL\_MIGRATION, GOBP\_POSITIVE\_REGULATION\_OF\_VASCULAR\_ASSOCIATED\_SMOOTH\_MUSCLE\_CELL\_MIGRATION  
GOBP\_NEGATIVE\_REGULATION\_OF\_SMOOTHENED\_SIGNALING\_PATHWAY\_INVOLVED\_IN\_DORSAL\_VENTRAL\_NEURAL\_TUBE\_PATTERNING, GOBP\_NEGATIVE\_REGULATION\_OF\_SMOOTHENED\_SIGNALING\_PATHWAY\_INVOLVED\_IN\_DORSAL\_VENTRAL\_N  
GOBP\_REGULATION\_OF\_SMOOTHENED\_SIGNALING\_PATHWAY\_INVOLVED\_IN\_DORSAL\_VENTRAL\_NEURAL\_TUBE\_PATTERNING, GOBP\_REGULATION\_OF\_SMOOTHENED\_SIGNALING\_PATHWAY\_INVOLVED\_IN\_DORSAL\_VENTRAL\_N  
REACTOME\_HDL\_ASSEMBLY, REACTOME\_HDL\_ASSEMBLY  
GOBP\_MINERALOCORTICOID\_METABOLIC\_PROCESS, GOBP\_MINERALOCORTICOID\_METABOLIC\_PROCESS