

GSE27786\_BCELL\_VS\_MONO\_MAC\_UP, GSE27786\_BCELL\_VS\_MONO\_MAC\_UP  
GSE27786\_1SK\_VS\_MONO\_MAC\_UP, GSE27786\_1SK\_VS\_MONO\_MAC\_UP  
GSE27786\_CD8\_TCELL\_VS\_ERYTHROBLAST\_UP, GSE27786\_CD8\_TCELL\_VS\_ERYTHROBLAST\_UP  
GSE27786\_NKTCCELL\_VS\_MONO\_MAC\_UP, GSE27786\_NKTCCELL\_VS\_MONO\_MAC\_UP  
GSE27786\_CD8\_TCELL\_VS\_MONO\_MAC\_UP, GSE27786\_CD8\_TCELL\_VS\_MONO\_MAC\_UP  
GSE27786\_NKTCCELL\_VS\_NEUTROPHIL\_UP, GSE27786\_NKTCCELL\_VS\_NEUTROPHIL\_UP  
GSE27786\_CD8\_TCELL\_VS\_NEUTROPHIL\_UP, GSE27786\_CD8\_TCELL\_VS\_NEUTROPHIL\_UP  
GSE27786\_CD4\_TCELL\_VS\_MONO\_MAC\_UP, GSE27786\_CD4\_TCELL\_VS\_MONO\_MAC\_UP  
GSE27786\_CD4\_TCELL\_VS\_NEUTROPHIL\_UP, GSE27786\_CD4\_TCELL\_VS\_NEUTROPHIL\_UP  
GSE27786\_1SK\_VS\_NEUTROPHIL\_UP, GSE27786\_1SK\_VS\_NEUTROPHIL\_UP  
GSE27786\_NKCELL\_VS\_MONO\_MAC\_UP, GSE27786\_NKCELL\_VS\_MONO\_MAC\_UP  
GSE27786\_BCELL\_VS\_NKCELL\_UP, GSE27786\_BCELL\_VS\_NKCELL\_UP  
GSE27786\_NKCELL\_VS\_NEUTROPHIL\_UP, GSE27786\_NKCELL\_VS\_NEUTROPHIL\_UP  
GSE27786\_BCELL\_VS\_ERYTHROBLAST\_UP, GSE27786\_BCELL\_VS\_ERYTHROBLAST\_UP  
GSE27786\_LIN\_NEG\_VS\_NEUTROPHIL\_UP, GSE27786\_LIN\_NEG\_VS\_NEUTROPHIL\_UP  
GSE14308\_NAIVE\_CD4\_TCELL\_VS\_NATURAL\_TREG\_DN, GSE14308\_NAIVE\_CD4\_TCELL\_VS\_NATURAL\_TREG\_DN  
GSE27786\_BCELL\_VS\_NKTCCELL\_UP, GSE27786\_BCELL\_VS\_NKTCCELL\_UP  
GSE20366\_EX\_VIVO\_VS\_HOMEOSTATIC\_CONVERSION\_NAIVE\_CD4\_TCELL\_UP, GSE20366\_EX\_VIVO\_VS\_HOMEOSTATIC\_CONVERSION\_NAIVE\_CD4\_TCELL\_UP  
GSE21063\_CTRL\_VS\_ANTL\_I\_GCM\_STIM\_BCELL\_NFATC1\_KO\_16H\_DN, GSE21063\_CTRL\_VS\_ANTL\_I\_GCM\_STIM\_BCELL\_NFATC1\_KO\_16H\_DN  
GSE32423\_IL7\_VS\_IL7\_IL4\_MEMORY\_CD8\_TCELL\_DN, GSE32423\_IL7\_VS\_IL7\_IL4\_MEMORY\_CD8\_TCELL\_DN  
MIR4469, MIR4469  
GSE22443\_NAIVE\_VS\_ACT\_AND\_IL12\_TREATED\_CD8\_TCELL\_DN, GSE22443\_NAIVE\_VS\_ACT\_AND\_IL12\_TREATED\_CD8\_TCELL\_DN  
GOMF\_NUCLEAR\_RECEPTOR\_COACTIVATOR\_ACTIVITY, GOMF\_NUCLEAR\_RECEPTOR\_COACTIVATOR\_ACTIVITY  
MIR4633\_5P, MIR4633\_5P  
HP\_DELAYED\_CNS\_MYELINATION, HP\_DELAYED\_CNS\_MYELINATION  
MIR2278, MIR2278  
MIR4302, MIR4302  
GSE22025\_UNTREATED\_VS\_TGFB1\_TREATED\_CD4\_TCELL\_DN, GSE22025\_UNTREATED\_VS\_TGFB1\_TREATED\_CD4\_TCELL\_DN  
AGGAGTG, MIR483, AGGAGTG, MIR483  
GOBP\_MORPHOGENESIS\_OF\_A\_BRANCHING\_STRUCTURE, GOBP\_MORPHOGENESIS\_OF\_A\_BRANCHING\_STRUCTURE  
ACATATC, MIR190, ACATATC, MIR190  
REACTOME\_TNFR1\_INDUCED\_NFKAPPAR\_SIGNALING\_PATHWAY, REACTOME\_TNFR1\_INDUCED\_NFKAPPAR\_SIGNALING\_PATHWAY  
HP\_MALIGNANT\_NEOPLASM\_OF\_THE\_CENTRAL\_NERVOUS\_SYSTEM, HP\_MALIGNANT\_NEOPLASM\_OF\_THE\_CENTRAL\_NERVOUS\_SYSTEM  
REACTOME\_TNF\_SIGNALING, REACTOME\_TNF\_SIGNALING  
HP\_GONADAL\_NEOPLASM, HP\_GONADAL\_NEOPLASM  
HINATA\_NFKB\_TARGETS\_FIBROBLAST\_UP, HINATA\_NFKB\_TARGETS\_FIBROBLAST\_UP  
GOBP\_INTRACILIARY\_TRANSPORT\_INVOLVED\_IN\_CILIUM\_ASSEMBLY, GOBP\_INTRACILIARY\_TRANSPORT\_INVOLVED\_IN\_CILIUM\_ASSEMBLY  
ROY\_WOUND\_BLOOD\_VESSEL\_UP, ROY\_WOUND\_BLOOD\_VESSEL\_UP  
GOBP\_NEGATIVE\_REGULATION\_OF\_TYPE\_1\_INTERFERON\_PRODUCTION, GOBP\_NEGATIVE\_REGULATION\_OF\_TYPE\_1\_INTERFERON\_PRODUCTION  
GOBP\_RESPONSE\_TO\_TYPE\_1\_INTERFERON, GOBP\_RESPONSE\_TO\_TYPE\_1\_INTERFERON  
GOBP\_BRANCHING\_MORPHOGENESIS\_OF\_AN\_EPITHELIAL\_TUBE, GOBP\_BRANCHING\_MORPHOGENESIS\_OF\_AN\_EPITHELIAL\_TUBE  
MIR3189\_3P, MIR3189\_3P  
GRE\_C, GRE\_C  
NIKOLSKY\_MUTATED\_AND\_AMPLIFIED\_IN\_BREAST\_CANCER, NIKOLSKY\_MUTATED\_AND\_AMPLIFIED\_IN\_BREAST\_CANCER  
GSE8921\_UNSTIM\_0H\_VS\_TLR1\_2\_STIM\_MONOCYTE\_24H\_UP, GSE8921\_UNSTIM\_0H\_VS\_TLR1\_2\_STIM\_MONOCYTE\_24H\_UP  
GOBP\_PLACENTA\_DEVELOPMENT, GOBP\_PLACENTA\_DEVELOPMENT  
HP\_SPASTIC\_DYSARTHRIA, HP\_SPASTIC\_DYSARTHRIA  
NAKAYA\_PPMC\_FLUMIST\_AGE\_18\_30YO\_7DY\_IPN\_SUBSET\_UP, NAKAYA\_PPMC\_FLUMIST\_AGE\_18\_30YO\_7DY\_IPN\_SUBSET\_UP  
GOBP\_ENDODERM\_FORMATION, GOBP\_ENDODERM\_FORMATION  
GTAAGAT, MIR200A, GTAAGAT, MIR200A  
HP\_NEOPLASM\_OF\_THE\_RESPIRATORY\_SYSTEM, HP\_NEOPLASM\_OF\_THE\_RESPIRATORY\_SYSTEM  
REACTOME\_REGULATION\_OF\_TNFR1\_SIGNALING, REACTOME\_REGULATION\_OF\_TNFR1\_SIGNALING  
HP\_APLASIA\_HYPOPLASIA\_INVOLVING\_THE\_PELVIS, HP\_APLASIA\_HYPOPLASIA\_INVOLVING\_THE\_PELVIS  
GOBP\_SERINE\_FAMILY\_AMINO\_ACID\_METABOLIC\_PROCESS, GOBP\_SERINE\_FAMILY\_AMINO\_ACID\_METABOLIC\_PROCESS  
GOBP\_NEGATIVE\_REGULATION\_OF\_VIRAL\_GENOME\_REPLICATION, GOBP\_NEGATIVE\_REGULATION\_OF\_VIRAL\_GENOME\_REPLICATION  
TERT\_TARGET\_GENES, TERT\_TARGET\_GENES  
MEIS1BHOXA9\_01, MEIS1BHOXA9\_01  
GOBP\_EMBRYONIC\_PLACENTA\_DEVELOPMENT, GOBP\_EMBRYONIC\_PLACENTA\_DEVELOPMENT  
HP\_BASAL\_CELL\_CARCINOMA, HP\_BASAL\_CELL\_CARCINOMA  
GOBP\_ENDODERM\_DEVELOPMENT, GOBP\_ENDODERM\_DEVELOPMENT  
HP\_GLIOMA, HP\_GLIOMA  
GOBP\_REGULATION\_OF\_ANDROGEN\_RECEPTOR\_SIGNALING\_PATHWAY, GOBP\_REGULATION\_OF\_ANDROGEN\_RECEPTOR\_SIGNALING\_PATHWAY  
GSE22025\_UNTREATED\_VS\_TGFB1\_TREATED\_CD4\_TCELL\_DN, GSE22025\_UNTREATED\_VS\_TGFB1\_TREATED\_CD4\_TCELL\_DN  
WP\_TNF\_RELATED\_WEAK\_INDUCER\_OF\_APOPTOSIS\_TWEAK\_SIGNALING\_PATHWAY, WP\_TNF\_RELATED\_WEAK\_INDUCER\_OF\_APOPTOSIS\_TWEAK\_SIGNALING\_PATHWAY  
BREDEMEYER\_RAG\_SIGNALING\_NOT\_VIA\_ATM\_UP, BREDEMEYER\_RAG\_SIGNALING\_NOT\_VIA\_ATM\_UP  
MIR1285\_5P, MIR1285\_5P  
HP\_OVARIAN\_NEOPLASM, HP\_OVARIAN\_NEOPLASM  
MIR6759\_5P, MIR6759\_5P  
GOCC\_INTRACILIARY\_TRANSPORT\_PARTICLE\_B, GOCC\_INTRACILIARY\_TRANSPORT\_PARTICLE\_B  
GOBP\_CELL\_CELL\_JUNCTION\_ASSEMBLY, GOBP\_CELL\_CELL\_JUNCTION\_ASSEMBLY  
HP\_PROGRESSIVE\_GAIT\_ATAXIA, HP\_PROGRESSIVE\_GAIT\_ATAXIA  
GOBP\_REGULATION\_OF\_EPIDERMIS\_DEVELOPMENT, GOBP\_REGULATION\_OF\_EPIDERMIS\_DEVELOPMENT  
GSE46606\_UNSTIM\_VS\_CD40L\_IL2\_IL5\_1DAY\_STIMULATED\_IRF4MID\_SORTED\_BCELL\_DN, GSE46606\_UNSTIM\_VS\_CD40L\_IL2\_IL5\_1DAY\_STIMULATED\_IRF4MID\_SORTED\_BCELL\_DN  
YANAGIHARA\_ESX1\_TARGETS, YANAGIHARA\_ESX1\_TARGETS  
MIR625\_3P, MIR625\_3P  
GOCC\_NSL\_COMPLEX, GOCC\_NSL\_COMPLEX  
MIR296\_5P, MIR296\_5P  
GOBP\_REGULATION\_OF\_EPITHELIAL\_CELL\_DIFFERENTIATION, GOBP\_REGULATION\_OF\_EPITHELIAL\_CELL\_DIFFERENTIATION  
HP\_MORPHOLOGICAL\_ABNORMALITY\_OF\_THE\_MIDDLE\_EAR, HP\_MORPHOLOGICAL\_ABNORMALITY\_OF\_THE\_MIDDLE\_EAR  
MIR1298\_5P, MIR1298\_5P  
GOBP\_POSITIVE\_REGULATION\_OF\_PHOSPHATIDYLINOSITOL\_3\_KINASE\_SIGNALING, GOBP\_POSITIVE\_REGULATION\_OF\_PHOSPHATIDYLINOSITOL\_3\_KINASE\_SIGNALING  
GOCC\_CONTRACTILE\_RING, GOCC\_CONTRACTILE\_RING  
REACTOME\_RND1\_GTPASE\_CYCLE, REACTOME\_RND1\_GTPASE\_CYCLE  
MIR4999\_3P, MIR4999\_3P  
GOBP\_POSITIVE\_REGULATION\_OF\_INTERFERON\_ALPHA\_PRODUCTION, GOBP\_POSITIVE\_REGULATION\_OF\_INTERFERON\_ALPHA\_PRODUCTION  
KEGG\_BASAL\_CELL\_CARCINOMA, KEGG\_BASAL\_CELL\_CARCINOMA  
HP\_APLASIA\_HYPOPLASIA\_OF\_THE\_FEMUR, HP\_APLASIA\_HYPOPLASIA\_OF\_THE\_FEMUR  
AZARE\_STAT3\_TARGETS, AZARE\_STAT3\_TARGETS  
TTCGGT, MIR191, TTCGGT, MIR191  
DORN\_ADENOVIRUS\_INFECTION\_32HR\_DN, DORN\_ADENOVIRUS\_INFECTION\_32HR\_DN  
KEGG\_CYTOSOLIC\_DNA\_SENSING\_PATHWAY, KEGG\_CYTOSOLIC\_DNA\_SENSING\_PATHWAY  
GOBP\_SPINAL\_CORD\_MOTOR\_NEURON\_DIFFERENTIATION, GOBP\_SPINAL\_CORD\_MOTOR\_NEURON\_DIFFERENTIATION  
GOBP\_PLACENTA\_BLOOD\_VESSEL\_DEVELOPMENT, GOBP\_PLACENTA\_BLOOD\_VESSEL\_DEVELOPMENT  
HP\_EPENDYMOMA, HP\_EPENDYMOMA  
REACTOME\_TRAF6\_MEDIATED\_NF\_KB\_ACTIVATION, REACTOME\_TRAF6\_MEDIATED\_NF\_KB\_ACTIVATION  
HP\_ADOXENOMATOUS\_COLONIC\_POLYPOSIS, HP\_ADOXENOMATOUS\_COLONIC\_POLYPOSIS  
GOCC\_LAMELLOPODIUM\_MEMBRANE, GOCC\_LAMELLOPODIUM\_MEMBRANE  
REACTOME\_NF\_KB\_ACTIVATION\_THROUGH\_FADD\_RIP\_1\_PATHWAY, REACTOME\_NF\_KB\_ACTIVATION\_THROUGH\_FADD\_RIP\_1\_PATHWAY, MEDIATED\_BY\_CASPASE\_8\_AND\_10, REACTOME\_NF\_KB\_ACTIVATION\_THROUGH\_FADD\_RIP\_1\_PATHWAY, MEDIATED\_BY\_CASPASE\_8\_AND\_10  
SHIN\_B\_CELL\_LYMPHOMA\_CLUSTER\_7, SHIN\_B\_CELL\_LYMPHOMA\_CLUSTER\_7  
HP\_SHYNESS, HP\_SHYNESS  
GOBP\_EMBRYONIC\_EYE\_MORPHOGENESIS, GOBP\_EMBRYONIC\_EYE\_MORPHOGENESIS  
GOBP\_REGULATION\_OF\_RESPONSE\_TO\_OXIDATIVE\_STRESS, GOBP\_REGULATION\_OF\_RESPONSE\_TO\_OXIDATIVE\_STRESS  
HP\_URINARY\_URGENCY, HP\_URINARY\_URGENCY  
HP\_POLYPHAGIA, HP\_POLYPHAGIA  
HP\_UNUSUAL\_FUNGAL\_INFECTION, HP\_UNUSUAL\_FUNGAL\_INFECTION  
HP\_ABNORMAL\_EATING\_BEHAVIOR, HP\_ABNORMAL\_EATING\_BEHAVIOR  
HP\_INCREASED\_ARM\_SPAN, HP\_INCREASED\_ARM\_SPAN  
HP\_ABNORMAL\_CONSUMPTION\_BEHAVIOR, HP\_ABNORMAL\_CONSUMPTION\_BEHAVIOR  
GOBP\_VASCULAR\_ASSOCIATED\_SMOOTH\_MUSCLE\_CELL\_DIFFERENTIATION, GOBP\_VASCULAR\_ASSOCIATED\_SMOOTH\_MUSCLE\_CELL\_DIFFERENTIATION  
REACTOME\_DISEASES\_OF\_DNA\_REPAIR, REACTOME\_DISEASES\_OF\_DNA\_REPAIR  
GOBP\_BIOTIN\_METABOLIC\_PROCESS, GOBP\_BIOTIN\_METABOLIC\_PROCESS  
GOBP\_EMBRYONIC\_CAMERA\_TYPE\_EYE\_DEVELOPMENT, GOBP\_EMBRYONIC\_CAMERA\_TYPE\_EYE\_DEVELOPMENT  
GOBP\_POSITIVE\_REGULATION\_OF\_CIRCADIAN\_RHYTHM, GOBP\_POSITIVE\_REGULATION\_OF\_CIRCADIAN\_RHYTHM  
GILMORE\_CORE\_NFKB\_PATHWAY, GILMORE\_CORE\_NFKB\_PATHWAY  
GOBP\_REGULATION\_OF\_RAC\_PROTEIN\_SIGNAL\_TRANSDUCTION, GOBP\_REGULATION\_OF\_RAC\_PROTEIN\_SIGNAL\_TRANSDUCTION  
GCM\_HMG2, GCM\_HMG2  
MIR4313, MIR4313  
HP\_ABNORMAL\_ARM\_SPAN, HP\_ABNORMAL\_ARM\_SPAN  
GOBP\_L\_SERINE\_METABOLIC\_PROCESS, GOBP\_L\_SERINE\_METABOLIC\_PROCESS  
GOBP\_PHOSPHATIDYLSERINE\_METABOLIC\_PROCESS, GOBP\_PHOSPHATIDYLSERINE\_METABOLIC\_PROCESS  
GOBP\_BRANCHING\_INVOLVED\_IN\_SALIVARY\_GLAND\_MORPHOGENESIS, GOBP\_BRANCHING\_INVOLVED\_IN\_SALIVARY\_GLAND\_MORPHOGENESIS  
GOBP\_POSITIVE\_REGULATION\_OF\_OLIGODENDROCYTE\_DIFFERENTIATION, GOBP\_POSITIVE\_REGULATION\_OF\_OLIGODENDROCYTE\_DIFFERENTIATION  
GOBP\_SPINAL\_CORD\_DEVELOPMENT, GOBP\_SPINAL\_CORD\_DEVELOPMENT  
GOBP\_INTERFERON\_ALPHA\_PRODUCTION, GOBP\_INTERFERON\_ALPHA\_PRODUCTION  
GOMF\_TRANSFERRIN\_RECEPTOR\_BINDING, GOMF\_TRANSFERRIN\_RECEPTOR\_BINDING  
HP\_GLIOBLASTOMA\_MULTIFORME, HP\_GLIOBLASTOMA\_MULTIFORME  
GOCC\_CD40\_RECEPTOR\_COMPLEX, GOCC\_CD40\_RECEPTOR\_COMPLEX  
GSE7218\_UNSTIM\_VS\_ANTIEN\_STIM\_THROUGH\_I\_GM\_BCELL\_DN, GSE7218\_UNSTIM\_VS\_ANTIEN\_STIM\_THROUGH\_I\_GM\_BCELL\_DN  
GOBP\_PYRUVATE\_BIOSYNTHETIC\_PROCESS, GOBP\_PYRUVATE\_BIOSYNTHETIC\_PROCESS  
ZNF445\_TARGET\_GENES, ZNF445\_TARGET\_GENES  
HP\_ANARTHRIA, HP\_ANARTHRIA  
TIAN\_TNF\_SIGNALING\_NOT\_VIA\_NFKB, TIAN\_TNF\_SIGNALING\_NOT\_VIA\_NFKB  
GOBP\_VENTRAL\_SPINAL\_CORD\_DEVELOPMENT, GOBP\_VENTRAL\_SPINAL\_CORD\_DEVELOPMENT  
GOBP\_CELL\_FATE\_DETERMINATION, GOBP\_CELL\_FATE\_DETERMINATION  
HP\_MEDULLOBLASTOMA, HP\_MEDULLOBLASTOMA  
BIOCARTA\_PITX2\_PATHWAY, BIOCARTA\_PITX2\_PATHWAY  
GSE589\_WT\_VS\_IL6\_KO\_LPS\_AND\_IL10\_STIM\_MACROPHAGE\_180MIN\_UP, GSE589\_WT\_VS\_IL6\_KO\_LPS\_AND\_IL10\_STIM\_MACROPHAGE\_180MIN\_UP  
TRAVAGLIN\_LUNG\_VEIN\_CELL, TRAVAGLIN\_LUNG\_VEIN\_CELL