

GO\_KO\_4H\_LPS\_STIM\_MACROPHAGE\_UP, GSE33162\_HDAC3\_KO\_VS\_HDAC3\_KO\_4H\_LPS\_STIM\_MACROPHAGE\_UP

GSE3406\_AZAR\_KO\_VS\_AZAR\_AGONIST\_TREATED\_TREG\_DN, GSE3406\_AZAR\_KO\_VS\_AZAR\_AGONIST\_TREATED\_TREG\_DN  
GSE14000\_TRANSLATED\_RNA\_VS\_MRNA\_4H\_LPS\_DC\_UP, GSE14000\_TRANSLATED\_RNA\_VS\_MRNA\_4H\_LPS\_DC\_UP  
GSE3204\_LY6C\_HIGH\_VS\_LOW\_MONOCYTE\_DN, GSE3204\_LY6C\_HIGH\_VS\_LOW\_MONOCYTE\_DN  
GSE37416\_0H\_VS\_24H\_E\_TULARENSIS\_LVS\_NEUTROPHIL\_DN, GSE37416\_0H\_VS\_24H\_E\_TULARENSIS\_LVS\_NEUTROPHIL\_DN  
GSE36527\_CD69\_NEG\_VS\_POS\_TREG\_CD62L\_LOS\_KLRG1\_NEG\_DN, GSE36527\_CD69\_NEG\_VS\_POS\_TREG\_CD62L\_LOS\_KLRG1\_NEG\_DN  
GSE12001\_MIR223\_KO\_VS\_WT\_NEUTROPHIL\_DN, GSE12001\_MIR223\_KO\_VS\_WT\_NEUTROPHIL\_DN  
GSE36609\_WT\_VS\_NLRP10\_KO\_DC\_LPS\_STIM\_DN, GSE36609\_WT\_VS\_NLRP10\_KO\_DC\_LPS\_STIM\_DN  
GSE2982\_BASOPHIL\_VS\_CENT\_MEMORY\_CD4\_TCELL\_UP, GSE2982\_BASOPHIL\_VS\_CENT\_MEMORY\_CD4\_TCELL\_UP  
GSE17721\_0.5H\_VS\_24H\_CPG\_BMDC\_UP, GSE17721\_0.5H\_VS\_24H\_CPG\_BMDC\_UP  
GOBP\_CYTOSOLIC\_TRANSPORT, GOBP\_CYTOSOLIC\_TRANSPORT  
GSE27786\_LSK\_VS\_ICELL\_DN, GSE27786\_LSK\_VS\_ICELL\_DN  
GOBP\_VACUOLE\_ORGANIZATION, GOBP\_VACUOLE\_ORGANIZATION  
GSE14308\_NAIVE\_CD4\_TCELL\_VS\_INDUCED\_TREG\_UP, GSE14308\_NAIVE\_CD4\_TCELL\_VS\_INDUCED\_TREG\_UP  
GSE1925\_CTRL\_VS\_24H\_IFNG\_STIM\_IFNG\_PRIMED\_MACROPHAGE\_DN, GSE1925\_CTRL\_VS\_24H\_IFNG\_STIM\_IFNG\_PRIMED\_MACROPHAGE\_DN  
GSE37301\_LYMPHOID\_PRIMED\_MFP\_VS\_COMMON\_LYMPHOID\_PROGENITOR\_DN, GSE37301\_LYMPHOID\_PRIMED\_MFP\_VS\_COMMON\_LYMPHOID\_PROGENITOR\_DN  
GSE15330\_WT\_VS\_JKAROK\_KO\_MEGAKARYOCYTE\_ERYTHROID\_PROGENITOR\_DN, GSE15330\_WT\_VS\_JKAROK\_KO\_MEGAKARYOCYTE\_ERYTHROID\_PROGENITOR\_DN  
GSE1448\_ANTL\_VALPHA2\_VS\_VBETA5\_DP\_THYMOCYTE\_UP, GSE1448\_ANTL\_VALPHA2\_VS\_VBETA5\_DP\_THYMOCYTE\_UP  
GSE32164\_RESTING\_DIFFERENTIATED\_VS\_ALTERNATIVELY\_ACT\_M2\_MACROPHAGE\_DN, GSE32164\_RESTING\_DIFFERENTIATED\_VS\_ALTERNATIVELY\_ACT\_M2\_MACROPHAGE\_DN  
GSE39182\_CD183\_NEG\_VS\_POS\_MEMORY\_CD8\_TCELL\_UP, GSE39182\_CD183\_NEG\_VS\_POS\_MEMORY\_CD8\_TCELL\_UP  
GSE1448\_CTRL\_VS\_ANTL\_VBETA5\_DP\_THYMOCYTE\_UP, GSE1448\_CTRL\_VS\_ANTL\_VBETA5\_DP\_THYMOCYTE\_UP  
GSE17721\_0.5H\_VS\_4H\_GARDQUIMOD\_BMDC\_DN, GSE17721\_0.5H\_VS\_4H\_GARDQUIMOD\_BMDC\_DN  
GSE17721\_CTRL\_VS\_POLYIC\_24H\_BMDC\_DN, GSE17721\_CTRL\_VS\_POLYIC\_24H\_BMDC\_DN  
GSE41087\_WT\_VS\_FOXP3\_MUT\_ANTL\_CD3\_CD28\_STIM\_CD4\_TCELL\_UP, GSE41087\_WT\_VS\_FOXP3\_MUT\_ANTL\_CD3\_CD28\_STIM\_CD4\_TCELL\_UP  
GOCC\_EARLY\_ENDOSOME\_MEMBRANE, GOCC\_EARLY\_ENDOSOME\_MEMBRANE  
GSE1460\_NAIVE\_CD4\_TCELL\_ADULT\_BLOOD\_VS\_THYMIC\_STROMAL\_CELL\_UP, GSE1460\_NAIVE\_CD4\_TCELL\_ADULT\_BLOOD\_VS\_THYMIC\_STROMAL\_CELL\_UP  
GSE40274\_EOS\_VS\_FOXP3\_AND\_EOS\_TRANSDCUED\_ACTIVATED\_CD4\_TCELL\_UP, GSE40274\_EOS\_VS\_FOXP3\_AND\_EOS\_TRANSDCUED\_ACTIVATED\_CD4\_TCELL\_UP  
ANDERSON\_BLOOD\_CN54GP140\_ADJUVANTED\_WITH\_GLA\_AF\_AGE\_18\_45YO\_IDY\_DN, ANDERSON\_BLOOD\_CN54GP140\_ADJUVANTED\_WITH\_GLA\_AF\_AGE\_18\_45YO\_IDY\_DN  
GSE17721\_CTRL\_VS\_CPG\_12H\_BMDC\_DN, GSE17721\_CTRL\_VS\_CPG\_12H\_BMDC\_DN  
HOLLAND\_DMT\_BREAST\_TUMOR\_UP, HOLLAND\_DMT\_BREAST\_TUMOR\_UP  
GSE17721\_LPS\_VS\_CPG\_8H\_BMDC\_UP, GSE17721\_LPS\_VS\_CPG\_8H\_BMDC\_UP  
MIR922, MIR922  
YAGL\_AML\_SURVIVAL, YAGL\_AML\_SURVIVAL  
GSE1176\_WT\_VS\_TAK1\_KO\_UNSTIM\_ICELL\_UP, GSE1176\_WT\_VS\_TAK1\_KO\_UNSTIM\_ICELL\_UP  
GSE2770\_IL12\_VS\_IL1A\_TREATED\_ACT\_CD4\_TCELL\_6H\_UP, GSE2770\_IL12\_VS\_IL1A\_TREATED\_ACT\_CD4\_TCELL\_6H\_UP  
MIR5008\_3P, MIR5008\_3P  
GSE1982\_EOSINOPHIL\_VS\_TH1\_UP, GSE1982\_EOSINOPHIL\_VS\_TH1\_UP  
HP\_ABNORMAL\_PULMONARY\_VALVE\_PHYSIOLOGY, HP\_ABNORMAL\_PULMONARY\_VALVE\_PHYSIOLOGY  
GSE12392\_FJNAR\_KO\_VS\_FJN8\_KO\_CD8\_NEG\_SPLEEN\_DC\_DN, GSE12392\_FJNAR\_KO\_VS\_FJN8\_KO\_CD8\_NEG\_SPLEEN\_DC\_DN  
MIR223\_3P, MIR223\_3P  
GSE15330\_LYMPHOID\_MULTIPOTENT\_VS\_PRO\_BCELL\_UP, GSE15330\_LYMPHOID\_MULTIPOTENT\_VS\_PRO\_BCELL\_UP  
GSE17721\_LPS\_VS\_CPG\_2H\_BMDC\_DN, GSE17721\_LPS\_VS\_CPG\_2H\_BMDC\_DN  
AAGGAT, MIR188, AAGGAT, MIR188  
MIR338\_3P, MIR338\_3P  
MIR7152\_3P, MIR7152\_3P  
MODULE\_576, MODULE\_576  
GOBP\_RETROGRADE\_TRANSPORT\_ENDOSOME\_TO\_GOLGI, GOBP\_RETROGRADE\_TRANSPORT\_ENDOSOME\_TO\_GOLGI  
MIR2276\_3P, MIR2276\_3P  
MIR1\_5P, MIR1\_5P  
GOBP\_VESICLE\_MEDIATED\_TRANSPORT\_BETWEEN\_ENDOSOMAL\_COMPARTMENTS, GOBP\_VESICLE\_MEDIATED\_TRANSPORT\_BETWEEN\_ENDOSOMAL\_COMPARTMENTS  
GSE2982\_NEUTROPHIL\_VS\_ICELL\_UP, GSE2982\_NEUTROPHIL\_VS\_ICELL\_UP  
GOCC\_EXTRINSIC\_COMPONENT\_OF\_PLASMA\_MEMBRANE, GOCC\_EXTRINSIC\_COMPONENT\_OF\_PLASMA\_MEMBRANE  
MIR3606\_5P, MIR3606\_5P  
AACTGAC, MIR223, AACTGAC, MIR223  
CTATGAT, MIR154, MIR487, CTATGAT, MIR154, MIR487  
GOBP\_REGULATION\_OF\_VACUOLE\_ORGANIZATION, GOBP\_REGULATION\_OF\_VACUOLE\_ORGANIZATION  
HP\_PECTUS\_CARINATUM, HP\_PECTUS\_CARINATUM  
WP\_HEAD\_AND\_NECK\_SQUAMOUS\_CELL\_CARCINOMA, WP\_HEAD\_AND\_NECK\_SQUAMOUS\_CELL\_CARCINOMA  
GENTILE\_RESPONSE\_CLUSTER\_D3, GENTILE\_RESPONSE\_CLUSTER\_D3  
GOME\_TRANSCRIPTION\_COREGULATOR\_BINDING, GOME\_TRANSCRIPTION\_COREGULATOR\_BINDING  
REACTOME\_MTOR\_SIGNALING, REACTOME\_MTOR\_SIGNALING  
ATTACAT, MIR380P, ATTACAT, MIR380P  
BURTON\_ADIPOGENESIS\_I1, BURTON\_ADIPOGENESIS\_I1  
AGTCACG, MIR345, AGTCACG, MIR345  
MIR581\_3P, MIR581\_3P  
GOCC\_SCF\_UBIQUITIN\_LIGASE\_COMPLEX, GOCC\_SCF\_UBIQUITIN\_LIGASE\_COMPLEX  
HP\_ABNORMALITY\_OF\_EARLOBE, HP\_ABNORMALITY\_OF\_EARLOBE  
MIR80P, MIR80P  
KEGG\_NON\_SMALL\_CELL\_LUNG\_CANCER, KEGG\_NON\_SMALL\_CELL\_LUNG\_CANCER  
MIR449C\_5P, MIR449C\_5P  
GOBP\_PROTEIN\_K63\_LINKED\_DEUBIQUITINATION, GOBP\_PROTEIN\_K63\_LINKED\_DEUBIQUITINATION  
MIR248\_5P, MIR248\_5P  
LIN\_MELANOMA\_COPY\_NUMBER\_DN, LIN\_MELANOMA\_COPY\_NUMBER\_DN  
SIG\_BCR\_SIGNALING\_PATHWAY, SIG\_BCR\_SIGNALING\_PATHWAY  
PID\_KIT\_PATHWAY, PID\_KIT\_PATHWAY  
MIR1227\_3P, MIR1227\_3P  
PID\_TAP3\_PATHWAY, PID\_TAP3\_PATHWAY  
WP\_ENDOMETRIAL\_CANCER, WP\_ENDOMETRIAL\_CANCER  
MIR4691\_5P, MIR4691\_5P  
ARGCGTTAA, UNKNOWN, ARGCGTTAA, UNKNOWN  
MIR561, MIR561  
GOBP\_REGULATION\_OF\_T\_CELL\_MEDIATED\_IMMUNITY, GOBP\_REGULATION\_OF\_T\_CELL\_MEDIATED\_IMMUNITY  
WP\_EGFR\_TYROSINE\_KINASE\_INHIBITOR\_RESISTANCE, WP\_EGFR\_TYROSINE\_KINASE\_INHIBITOR\_RESISTANCE  
HP\_APLASIA\_HYPOPLASIA\_OF\_THE\_EYEBROW, HP\_APLASIA\_HYPOPLASIA\_OF\_THE\_EYEBROW  
WP\_NOTCH\_SIGNALING\_PATHWAY, NETPATH, WP\_NOTCH\_SIGNALING\_PATHWAY, NETPATH  
GOME\_PHOSPHATIDYLINOSITOL\_3\_PHOSPHATE\_BINDING, GOME\_PHOSPHATIDYLINOSITOL\_3\_PHOSPHATE\_BINDING  
MIR34A\_3P, MIR34A\_3P  
PID\_TGFR\_PATHWAY, PID\_TGFR\_PATHWAY  
PID\_SPARSE\_EYEBROW, HP\_SPARSE\_EYEBROW  
MIR122, MIR122  
GOBP\_NEGATIVE\_REGULATION\_OF\_NEURON\_DEATH, GOBP\_NEGATIVE\_REGULATION\_OF\_NEURON\_DEATH  
MIR6514\_3P, MIR6514\_3P  
MIR569, MIR569  
MIR6529\_3P, MIR6529\_3P  
PID\_FAS\_PATHWAY, PID\_FAS\_PATHWAY  
GOBP\_NEGATIVE\_REGULATION\_OF\_CELL\_DEVELOPMENT, GOBP\_NEGATIVE\_REGULATION\_OF\_CELL\_DEVELOPMENT  
REACTOME\_ENERGY\_DEPENDENT\_REGULATION\_OF\_MTOR\_BY\_LKB1\_AMPK, REACTOME\_ENERGY\_DEPENDENT\_REGULATION\_OF\_MTOR\_BY\_LKB1\_AMPK  
GOCC\_EXTRINSIC\_COMPONENT\_OF\_CYTOPLASMIC\_SIDE\_OF\_PLASMA\_MEMBRANE, GOCC\_EXTRINSIC\_COMPONENT\_OF\_CYTOPLASMIC\_SIDE\_OF\_PLASMA\_MEMBRANE  
GOBP\_RESPONSE\_TO\_EPIDERMAL\_GROWTH\_FACTOR, GOBP\_RESPONSE\_TO\_EPIDERMAL\_GROWTH\_FACTOR  
GOBP\_REGULATION\_OF\_OSTECLAST\_DIFFERENTIATION, GOBP\_REGULATION\_OF\_OSTECLAST\_DIFFERENTIATION  
GOBP\_NEGATIVE\_REGULATION\_OF\_MYELOID\_CELL\_DIFFERENTIATION, GOBP\_NEGATIVE\_REGULATION\_OF\_MYELOID\_CELL\_DIFFERENTIATION  
MIR3972, MIR3972  
REACTOME\_RHOH\_GTPASE\_CYCLE, REACTOME\_RHOH\_GTPASE\_CYCLE  
REACTOME\_EXTRA\_NUCLEAR\_ESTROGEN\_SIGNALING, REACTOME\_EXTRA\_NUCLEAR\_ESTROGEN\_SIGNALING  
WP\_CORTICOTROPINRELEASING\_HORMONE\_SIGNALING\_PATHWAY, WP\_CORTICOTROPINRELEASING\_HORMONE\_SIGNALING\_PATHWAY  
MIR4474\_3P, MIR4474\_3P  
ZHAN\_LATE\_DIFFERENTIATION\_GENES\_UP, ZHAN\_LATE\_DIFFERENTIATION\_GENES\_UP  
GOBP\_REGULATION\_OF\_CYTOPLASMIC\_TRANSPORT, GOBP\_REGULATION\_OF\_CYTOPLASMIC\_TRANSPORT  
MIR4765, MIR4765  
ZMYND11\_TARGET\_GENES, ZMYND11\_TARGET\_GENES  
MIR192\_3P, MIR192\_3P  
CROONQUIST\_NRAS\_VS\_STROMAL\_STIMULATION\_UP, CROONQUIST\_NRAS\_VS\_STROMAL\_STIMULATION\_UP  
MIR412\_3P, MIR412\_3P  
GNF2\_LYN, GNF2\_LYN  
MIR591, MIR591  
GOCC\_PERIKARYON, GOCC\_PERIKARYON  
PID\_P13K\_PL\_CTRK\_PATHWAY, PID\_P13K\_PL\_CTRK\_PATHWAY  
MIR4712\_3P, MIR4712\_3P  
MODULE\_189, MODULE\_189  
GOME\_TRANSCRIPTION\_COACTIVATOR\_BINDING, GOME\_TRANSCRIPTION\_COACTIVATOR\_BINDING  
GOBP\_REGULATION\_OF\_PROTEIN\_TARGETING\_TO\_MITOCHONDRION, GOBP\_REGULATION\_OF\_PROTEIN\_TARGETING\_TO\_MITOCHONDRION  
GOBP\_TISSUE\_REMODELING, GOBP\_TISSUE\_REMODELING  
MIR3945, MIR3945  
GOBP\_POSITIVE\_REGULATION\_OF\_NEURON\_DEATH, GOBP\_POSITIVE\_REGULATION\_OF\_NEURON\_DEATH  
SIG\_IL4RECEPTOR\_IN\_B\_L\_YTHOCYTES, SIG\_IL4RECEPTOR\_IN\_B\_L\_YTHOCYTES  
CAGNYGNAAA, UNKNOWN, CAGNYGNAAA, UNKNOWN  
MIR556\_3P, MIR556\_3P  
WP\_SEROTONIN\_RECEPTOR\_467\_AND\_NTRC\_SIGNALING, WP\_SEROTONIN\_RECEPTOR\_467\_AND\_NTRC\_SIGNALING  
HP\_IMPAIRED\_GLUCOSE\_TOLERANCE, HP\_IMPAIRED\_GLUCOSE\_TOLERANCE  
GSE43863\_TH1\_VS\_TH1\_EFFECTOR\_CD4\_TCELL\_UP, GSE43863\_TH1\_VS\_TH1\_EFFECTOR\_CD4\_TCELL\_UP  
MIR509\_5P, MIR509\_5P  
GOBP\_LYSOSOME\_LOCALIZATION, GOBP\_LYSOSOME\_LOCALIZATION  
GOBP\_PROTEIN\_TARGETING\_TO\_LYSOSOME, GOBP\_PROTEIN\_TARGETING\_TO\_LYSOSOME  
MIR658\_3P, MIR658\_3P  
HP\_THIN\_EYEBROW, HP\_THIN\_EYEBROW  
MIR50A\_3P, MIR50A\_3P  
HP\_ABNORMALITY\_OF\_THE\_PLANTAR\_SKIN\_OF\_F