```
GSE39820 CTRL VS TGFBETA1_IL6_CD4_TCELL_UP, GSE39820 CTRL_VS_TGFBETA1_IL6_CD4_TCELL_UP
                                                                                                        GSE11961_FOLLICULAR_BCELL_VS_MEMORY_BCELL_DAY7_DN, GSE11961_FOLLICULAR_BCELL_VS_MEMORY_BCELL_DAY7_DN
                                                                                                        GSE15324 NAIVE_VS_ACTIVATED_ELF4_KO_CD8_TCELL_DN, GSE15324_NAIVE_VS_ACTIVATED_ELF4_KO_CD8_TCELL_DN
                                                                                                        GSE39820_CTRL_VS_IL1B_IL6_CD4_TCELL_UP, GSE39820_CTRL_VS_IL1B_IL6_CD4_TCELL_UP
                                                                                                        GSE15330_HSC_VS_LYMPHOID_PRIMED_MULTIPOTENT_PROGENITOR_IKAROS_KO_DN, GSE15330_HSC_VS_LYMPHOID_PRIMED_MULTIPOTENT_PROGENITOR_IKAROS_KO_DN
                                                                                                        GSE16450_IMMATURE_VS_MATURE_NEURON_CELL_LINE_12H_IFNA_STIM_DN, GSE16450_IMMATURE_VS_MATURE_NEURON_CELL_LINE_12H_IFNA_STIM_DN
                                                                                                        GSE17721 0.5H VS 12H CPG BMDC DN, GSE17721 0.5H VS 12H CPG BMDC DN
                                                                                                        MIR4778_5P, MIR4778_5P
                                                                                                        GSE27786_BCELL_VS_NKCELL_UP, GSE27786_BCELL_VS_NKCELL_UP
                                                                                                        GSE3039 ALPHABETA CD8 TCELL VS B2 BCELL UP, GSE3039 ALPHABETA CD8 TCELL VS B2 BCELL UP
                                                                                                        GSE19941_UNSTIM_VS_LPS_STIM_IL10_KO_MACROPHAGE_DN, GSE19941_UNSTIM_VS_LPS_STIM_IL10_KO_MACROPHAGE_DN
                                                                                                        GSE40274_FOXP3_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN, GSE40274_FOXP3_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN
                                                                                                        MIR548BA, MIR548BA
                                                                                                        GSE20366_TREG_VS_TCONV_DN, GSE20366_TREG_VS_TCONV_DN
                                                                                                        GSE29949 CD8 POS DC SPLEEN VS MONOCYTE BONE MARROW DN, GSE29949 CD8 POS DC SPLEEN VS MONOCYTE BONE MARROW DN
                                                                                                        GSE3039_B2_VS_B1_BCELL_UP, GSE3039_B2_VS_B1_BCELL_UP
                                                                                                        HP_ABNORMALITY_OF_BONE_MARROW_CELL_MORPHOLOGY, HP_ABNORMALITY_OF_BONE_MARROW_CELL_MORPHOLOGY
                                                                                                        GSE2770 IL12 ACT VS ACT CD4 TCELL 6H DN, GSE2770 IL12 ACT VS ACT CD4 TCELL 6H DN
                                                                                                        GSE16451_CTRL_VS_WEST_EQUINE_ENC_VIRUS_MATURE_NEURON_CELL_LINE_UP, GSE16451_CTRL_VS_WEST_EQUINE_ENC_VIRUS_MATURE_NEURON_CELL_LINE_UP
                                                                                                        MIR548AI_MIR570_5P, MIR548AI_MIR570_5P
                                                                                                        MIR548AG, MIR548AG
                                                                                                        GSE23321 CENTRAL VS EFFECTOR MEMORY CD8 TCELL UP, GSE23321 CENTRAL VS EFFECTOR MEMORY CD8 TCELL UP
                                                                                                        MIR200A_5P, MIR200A_5P
                                                                                                        GSE23505_UNTREATED_VS_4DAY_IL6_IL1_TGFB_TREATED_CD4_TCELL_UP, GSE23505_UNTREATED_VS_4DAY_IL6_IL1_TGFB_TREATED_CD4_TCELL_UP
                                                                                                        MIR200B_5P, MIR200B_5P
                                                                                                        MIR12131, MIR12131
                                                                                                        BENPORATH NOS TARGETS, BENPORATH NOS TARGETS
                                                                                                        MIR4762_5P, MIR4762_5P
                                                                                                        GSE20366 CD103 POS VS CD103 KLRG1 DP TREG UP, GSE20366 CD103 POS VS CD103 KLRG1 DP TREG UP
                                                                                                        YYCATTCAWW_UNKNOWN, YYCATTCAWW_UNKNOWN
                                                                                                        MIR6814_5P, MIR6814_5P
                                                                                                        MIR3191_5P, MIR3191_5P
                                                                                                        GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_60H_UP, GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_60H_UP
                                                                                                        GSE26928_CENTR_MEMORY_VS_CXCR5_POS_CD4_TCELL_DN, GSE26928_CENTR_MEMORY_VS_CXCR5_POS_CD4_TCELL_DN
                                                                                                        GOBP_NEGATIVE_REGULATION_OF_PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION_OR_REMOVAL, GOBP_NEGATIVE_REGULATION_OF_PROTEIN_MODIFICATION_BY_SMALL_PROTE
                                                                                                        MODULE_525, MODULE_525
                                                                                                        MIR606, MIR606
                                                                                                        MIR4711_5P, MIR4711_5P
                                                                                                        AGGTGCA_MIR500, AGGTGCA_MIR500
                                                                                                        CAGCACT_MIR5123P, CAGCACT_MIR5123P
                                                                                                        YTAATTAA_LHX3_01, YTAATTAA_LHX3_01
                                                                                                      ─ GSE21927_SPLEEN_VS_TUMOR_MONOCYTE_C57BL6_DN, GSE21927_SPLEEN_VS_TUMOR_MONOCYTE_C57BL6_DN
VS_TGFBETA3_IL6_IL23A_CD4_TCELL_UP, GSE39820_CTRL_VS_TGFBETA3_IL6_IL23A_CD4_TCELL_UP
                                                                                                        MIR5007 3P, MIR5007 3P
                                                                                                        GTTRYCATRR_UNKNOWN, GTTRYCATRR_UNKNOWN
                                                                                                        MIR892B, MIR892B
                                                                                                        SENESE_HDAC2_TARGETS_UP, SENESE_HDAC2_TARGETS_UP
                                                                                                        MIR4473, MIR4473
                                                                                                        MIR6750_3P, MIR6750_3P
                                                                                                        MIR4684_3P, MIR4684_3P
                                                                                                        MIR3928_5P, MIR3928_5P
                                                                                                        MIR3913_5P, MIR3913_5P
                                                                                                        MIR6806_3P, MIR6806_3P
                                                                                                        HP_INCREASED_CIRCULATING_ANTIBODY_LEVEL, HP_INCREASED_CIRCULATING_ANTIBODY_LEVEL
                                                                                                        COATES_MACROPHAGE_M1_VS_M2_DN, COATES_MACROPHAGE_M1_VS_M2_DN
                                                                                                        REACTOME_ONCOGENE_INDUCED_SENESCENCE, REACTOME_ONCOGENE_INDUCED_SENESCENCE
                                                                                                        HP_DELAYED_PUBERTY, HP_DELAYED_PUBERTY
                                                                                                        MIR6751_3P, MIR6751_3P
                                                                                                        MIR1199_5P, MIR1199_5P
                                                                                                        MIR512_5P, MIR512_5P
                                                                                                        HP_CACHEXIA, HP_CACHEXIA
                                                                                                        BRUINS UVC RESPONSE VIA TP53 GROUP C, BRUINS UVC RESPONSE VIA TP53 GROUP C
                                                                                                        MIR4712_3P, MIR4712_3P
                                                                                                        GSE9946_IMMATURE_VS_LISTERIA_INF_MATURE_DC_DN, GSE9946_IMMATURE_VS_LISTERIA_INF_MATURE_DC_DN
                                                                                                        MIR3605_5P, MIR3605_5P
                                                                                                        LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_DN, LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_DN
                                                                                                        GOBP IMMUNOGLOBULIN PRODUCTION INVOLVED IN IMMUNOGLOBULIN MEDIATED IMMUNE RESPONSE, GOBP IMMUNOGLOBULIN PRODUCTION INVOLVED IN IMMUNOGLOBULIN MEDIA
                                                                                                        PODAR_RESPONSE_TO_ADAPHOSTIN_DN, PODAR_RESPONSE_TO_ADAPHOSTIN_DN
                                                                                                        HP_APLASIA_HYPOPLASIA_OF_THE_OVARY, HP_APLASIA_HYPOPLASIA_OF_THE_OVARY
                                                                                                       MIR6502_3P, MIR6502_3P
                                                                                                        PIAS4_TARGET_GENES, PIAS4_TARGET_GENES
                                                                                                        WP_INTERACTOME_OF_POLYCOMB_REPRESSIVE_COMPLEX_2_PRC2, WP_INTERACTOME_OF_POLYCOMB_REPRESSIVE_COMPLEX_2_PRC2
                                                                                                        chrXq13, chrXq13
                                                                                                       chr6q24, chr6q24
                                                                                                        GSE4142_NAIVE_VS_MEMORY_BCELL_DN, GSE4142_NAIVE_VS_MEMORY_BCELL_DN
                                                                                                       GOBP_MICROVILLUS_ASSEMBLY, GOBP_MICROVILLUS_ASSEMBLY
                                                                                                       HP_BROAD_RIBS, HP_BROAD_RIBS
                                                                                                       GOCC_POSTSYNAPTIC_SPECIALIZATION_INTRACELLULAR_COMPONENT, GOCC_POSTSYNAPTIC_SPECIALIZATION_INTRACELLULAR_COMPONENT
                                                                                                        GOMF_TAU_PROTEIN_KINASE_ACTIVITY, GOMF_TAU_PROTEIN_KINASE_ACTIVITY
                                                                                                       BROWNE_HCMV_INFECTION_4HR_UP, BROWNE_HCMV_INFECTION_4HR_UP
                                                                                                        GOCC POSTSYNAPTIC DENSITY INTRACELLULAR COMPONENT, GOCC POSTSYNAPTIC DENSITY INTRACELLULAR COMPONENT
                                                                                                        GOBP_REGULATION_OF_MITOCHONDRIAL_FUSION, GOBP_REGULATION_OF_MITOCHONDRIAL_FUSION
                                                                                                        GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_PINK_DN, GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_PINK_DN
                                                                                                        PID_LPA4_PATHWAY, PID_LPA4_PATHWAY
                                                                                                        GOMF_BETA_2_MICROGLOBULIN_BINDING, GOMF_BETA_2_MICROGLOBULIN_BINDING
                                                                                                        REACTOME TANDEM PORE DOMAIN POTASSIUM CHANNELS, REACTOME TANDEM PORE DOMAIN POTASSIUM CHANNELS
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HP_HYPOCHROMIC_MICROCYTIC_ANEMIA, HP_HYPOCHROMIC_MICROCYTIC_ANEMIA

GSE21380_NON_TFH_VS_GERMINAL_CENTER_TFH_CD4_TCELL_DN, GSE21380_NON_TFH_VS_GERMINAL_CENTER_TFH_CD4_TCELL_DN

GSE12366 GC BCELL VS PLASMA CELL UP, GSE12366 GC BCELL VS PLASMA CELL UP

GSE12392_WT_VS_IFNB_KO_CD8A_POS_SPLEEN_DC_UP, GSE12392_WT_VS_IFNB_KO_CD8A_POS_SPLEEN_DC_UP