```
GSE14769_UNSTIM_VS_120MIN_LPS_BMDM_UP, GSE14769_UNSTIM_VS_120MIN_LPS_BMDM_UP
                                                                                                                                                                         GSE6674_ANTI_IGM_VS_CPG_STIM_BCELL_DN, GSE6674_ANTI_IGM_VS_CPG_STIM_BCELL_DN
                                                                                                                                                                         GSE46606_UNSTIM_VS_CD40L_IL2_IL5_3DAY_STIMULATED_IRF4MID_SORTED_BCELL_UP, GSE46606_UNSTIM_VS_CD40L_IL2_IL5_3DAY_STIMULATED_IRF4MID_SORTED_BCELL_UP
                                                                                                                                                                         GSE42724_B1_BCELL_VS_PLASMABLAST_DN, GSE42724_B1_BCELL_VS_PLASMABLAST_DN
                                                                                                                                                                         GSE27786_BCELL_VS_MONO_MAC_UP, GSE27786_BCELL_VS_MONO_MAC_UP
                                                                                                                                                                        GSE46606_IRF4MID_VS_WT_CD40L_IL2_IL5_DAY1_STIMULATED_BCELL_UP, GSE46606_IRF4MID_VS_WT_CD40L_IL2_IL5_DAY1_STIMULATED_BCELL_UP
                                                                                                                                                                        GSE46606_IRF4HIGH_VS_IRF4MID_CD40L_IL2_IL5_DAY1_STIMULATED_BCELL_UP, GSE46606_IRF4HIGH_VS_IRF4MID_CD40L_IL2_IL5_DAY1_STIMULATED_BCELL_UP
                                                                                                                                                                        GSE27786_LIN_NEG_VS_CD8_TCELL_DN, GSE27786_LIN_NEG_VS_CD8_TCELL_DN
                                                                                                                                                                        GSE36392_EOSINOPHIL_VS_MAC_IL25_TREATED_LUNG_DN, GSE36392_EOSINOPHIL_VS_MAC_IL25_TREATED_LUNG_DN
                                                                                                                                                                        GSE39820_CTRL_VS_TGFBETA1_IL6_IL23A_CD4_TCELL_DN, GSE39820_CTRL_VS_TGFBETA1_IL6_IL23A_CD4_TCELL_DN
                                                                                                                                                                        GSE25085_FETAL_LIVER_VS_ADULT_BM_SP4_THYMIC_IMPLANT_UP, GSE25085_FETAL_LIVER_VS_ADULT_BM_SP4_THYMIC_IMPLANT_UP
                                                                                                                                                                        GSE2770_UNTREATED_VS_ACT_CD4_TCELL_6H_UP, GSE2770_UNTREATED_VS_ACT_CD4_TCELL_6H_UP
                                                                                                                                                                        GSE39110_DAY3_VS_DAY6_POST_IMMUNIZATION_CD8_TCELL_UP, GSE39110_DAY3_VS_DAY6_POST_IMMUNIZATION_CD8_TCELL_UP
                                                                                                                                                                         GSE3720_UNSTIM_VS_LPS_STIM_VD1_GAMMADELTA_TCELL_UP, GSE3720_UNSTIM_VS_LPS_STIM_VD1_GAMMADELTA_TCELL_UP
                                                                                                                                                                        GSE17721_POLYIC_VS_CPG_4H_BMDC_UP, GSE17721_POLYIC_VS_CPG_4H_BMDC_UP
                                                                                                                                                                        GSE11961_MARGINAL_ZONE_BCELL_VS_PLASMA_CELL_DAY7_UP, GSE11961_MARGINAL_ZONE_BCELL_VS_PLASMA_CELL_DAY7_UP
                                                                                                                                                                        GSE25123_CTRL_VS_IL4_STIM_MACROPHAGE_UP, GSE25123_CTRL_VS_IL4_STIM_MACROPHAGE_UP
                                                                                                                                                                        GSE2197_CPG_DNA_VS_UNTREATED_IN_DC_DN, GSE2197_CPG_DNA_VS_UNTREATED_IN_DC_DN
                                                                                                                                                                        GSE17721_PAM3CSK4_VS_CPG_8H_BMDC_UP, GSE17721_PAM3CSK4_VS_CPG_8H_BMDC_UP
                                                                                                                                                                       GSE17186_NAIVE_VS_CD21LOW_TRANSITIONAL_BCELL_DN, GSE17186_NAIVE_VS_CD21LOW_TRANSITIONAL_BCELL_DN
                                                                                                                                                                        GSE36009_UNSTIM_VS_LPS_STIM_NLRP10_KO_DC_DN, GSE36009_UNSTIM_VS_LPS_STIM_NLRP10_KO_DC_DN
                                                                                                                                                                        GSE36888_STAT5_AB_KNOCKIN_VS_WT_TCELL_IL2_TREATED_2H_UP, GSE36888_STAT5_AB_KNOCKIN_VS_WT_TCELL_IL2_TREATED_2H_UP
                                                                                                                                                                        GSE27786_CD8_TCELL_VS_NKCELL_UP, GSE27786_CD8_TCELL_VS_NKCELL_UP
                                                                                                                                                                        GSE11961_FOLLICULAR_BCELL_VS_GERMINAL_CENTER_BCELL_DAY40_DN, GSE11961_FOLLICULAR_BCELL_VS_GERMINAL_CENTER_BCELL_DAY40_DN
                                                                                                                                                                        GSE21546_SAP1A_KO_VS_SAP1A_KO_AND_ELK1_KO_DP_THYMOCYTES_UP, GSE21546_SAP1A_KO_VS_SAP1A_KO_AND_ELK1_KO_DP_THYMOCYTES_UP
                                                                                                                                                                        GSE27896_HDAC6_KO_VS_WT_TREG_DN, GSE27896_HDAC6_KO_VS_WT_TREG_DN
                                                                                                                                                                        GSE11057_NAIVE_CD4_VS_PBMC_CD4_TCELL_UP, GSE11057_NAIVE_CD4_VS_PBMC_CD4_TCELL_UP
                                                                                                                                                                        GSE40666_WT_VS_STAT4_KO_CD8_TCELL_WITH_IFNA_STIM_90MIN_UP, GSE40666_WT_VS_STAT4_KO_CD8_TCELL_WITH_IFNA_STIM_90MIN_UP
                                                                                                                                                                       GSE37301_LYMPHOID_PRIMED_MPP_VS_COMMON_LYMPHOID_PROGENITOR_DN, GSE37301_LYMPHOID_PRIMED_MPP_VS_COMMON_LYMPHOID_PROGENITOR_DN
                                                                                                                                                                       GSE17580_TREG_VS_TEFF_S_MANSONI_INF_DN, GSE17580_TREG_VS_TEFF_S_MANSONI_INF_DN
                                                                                                                                                                       GSE2585_AIRE_KO_VS_WT_CD80_HIGH_MTEC_DN, GSE2585_AIRE_KO_VS_WT_CD80_HIGH_MTEC_DN
                                                                                                                                                                       YBX3_TARGET_GENES, YBX3_TARGET_GENES
                                                                                                                                                                       GSE23308_CTRL_VS_CORTICOSTERONE_TREATED_MACROPHAGE_UP, GSE23308_CTRL_VS_CORTICOSTERONE_TREATED_MACROPHAGE_UP
                                                                                                                                                                       GSE10239_MEMORY_VS_KLRG1HIGH_EFF_CD8_TCELL_UP, GSE10239_MEMORY_VS_KLRG1HIGH_EFF_CD8_TCELL_UP
                                                                                                                                                                       GOBP_PEPTIDYL_LYSINE_METHYLATION, GOBP_PEPTIDYL_LYSINE_METHYLATION
                                                                                                                                                                        GNF2_TPT1, GNF2_TPT1
                                                                                                                                                                        GSE8685_IL2_STARVED_VS_IL15_ACT_IL2_STARVED_CD4_TCELL_UP, GSE8685_IL2_STARVED_VS_IL15_ACT_IL2_STARVED_CD4_TCELL_UP
                                                                                                                                                                        GSE14026_TH1_VS_TH17_DN, GSE14026_TH1_VS_TH17_DN
                                                                                                                                                                        GSE19941_UNSTIM_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_UP, GSE19941_UNSTIM_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_UP
                                                                                                                                                                        GSE43955_10H_VS_30H_ACT_CD4_TCELL_DN, GSE43955_10H_VS_30H_ACT_CD4_TCELL_DN
                                                                                                                                                                         GSE26912 TUMORICIDAL VS CTRL MACROPHAGE UP, GSE26912 TUMORICIDAL VS CTRL MACROPHAGE UP
                                                                                                                                                                         MIR7703, MIR7703
                                                                                                                                                                         GSE37301_CD4_TCELL_VS_GRANULOCYTE_MONOCYTE_PROGENITOR_UP, GSE37301_CD4_TCELL_VS_GRANULOCYTE_MONOCYTE_PROGENITOR_UP
                                                                                                                                                                         GSE19923_WT_VS_E2A_KO_DP_THYMOCYTE_UP, GSE19923_WT_VS_E2A_KO_DP_THYMOCYTE_UP
                                                                                                                                                                        THAKAR_PBMC_INACTIVATED_INFLUENZA_AGE_21_30YO_NONRESPONDER_28DY_DN, THAKAR_PBMC_INACTIVATED_INFLUENZA_AGE_21_30YO_NONRESPONDER_28DY_DN
                                                                                                                                                                        GSE2770_TGFB_AND_IL4_VS_IL4_TREATED_ACT_CD4_TCELL_2H_UP, GSE2770_TGFB_AND_IL4_VS_IL4_TREATED_ACT_CD4_TCELL_2H_UP
                                                                                                                                                                         GSE15930 NAIVE VS 24H IN VITRO STIM CD8 TCELL UP, GSE15930 NAIVE VS 24H IN VITRO STIM CD8 TCELL UP
                                                                                                                                                                         MIR138_1_3P, MIR138_1_3P
                                                                                                                                                                        MODULE_301, MODULE_301
                                                                                                                                                                        MODULE_238, MODULE_238
RF4MID_CD40L_IL2_IL5_DAY3_STIMULATED_BCELL_UP, GSE46606_IRF4HIGH_VS_IRF4MID_CD40L_IL2_IL5_DAY3_STIMULATED_BCELL_UP
                                                                                                                                                                        GSE15930_NAIVE_VS_72H_IN_VITRO_STIM_CD8_TCELL_UP, GSE15930_NAIVE_VS_72H_IN_VITRO_STIM_CD8_TCELL_UP
                                                                                                                                                                         SHIPP_DLBCL_CURED_VS_FATAL_DN, SHIPP_DLBCL_CURED_VS_FATAL_DN
                                                                                                                                                                         PARK_TRETINOIN_RESPONSE, PARK_TRETINOIN_RESPONSE
                                                                                                                                                                         MIR634, MIR634
                                                                                                                                                                         GOBP_REGULATION_OF_CELL_SUBSTRATE_JUNCTION_ORGANIZATION, GOBP_REGULATION_OF_CELL_SUBSTRATE_JUNCTION_ORGANIZATION
                                                                                                                                                                         HP_MICROMELIA, HP_MICROMELIA
                                                                                                                                                                         REACTOME_NUCLEOTIDE_BINDING_DOMAIN_LEUCINE_RICH_REPEAT_CONTAINING_RECEPTOR_NLR_SIGNALING_PATHWAYS, REACTOME_NUCLEOTIDE_BINDING_DOMAIN_LEUCINE_RICH_REPEAT_CONTAINING_RECEPTOR_NLR_SIGNALING_PATHWAYS
                                                                                                                                                                         GCM DDX11, GCM DDX11
                                                                                                                                                                         HEIDENBLAD_AMPLICON_12P11_12_UP, HEIDENBLAD_AMPLICON_12P11_12_UP
                                                                                                                                                                         MIR4438, MIR4438
                                                                                                                                                                         MIR4733_3P, MIR4733_3P
                                                                                                                                                                         CADWELL_ATG16L1_TARGETS_DN, CADWELL_ATG16L1_TARGETS_DN
                                                                                                                                                                        NAKAMURA_METASTASIS, NAKAMURA_METASTASIS
                                                                                                                                                                        HNF3_Q6, HNF3_Q6
                                                                                                                                                                        BCAT_BILD_ET_AL_UP, BCAT_BILD_ET_AL_UP
                                                                                                                                                                        MIR3972, MIR3972
                                                                                                                                                                        NIKOLSKY_BREAST_CANCER_7Q21_Q22_AMPLICON, NIKOLSKY_BREAST_CANCER_7Q21_Q22_AMPLICON
                                                                                                                                                                      GOBP_ACTIVATION_OF_GTPASE_ACTIVITY, GOBP_ACTIVATION_OF_GTPASE_ACTIVITY
                                                                                                                                                                       REACTOME_PURINERGIC_SIGNALING_IN_LEISHMANIASIS_INFECTION, REACTOME_PURINERGIC_SIGNALING_IN_LEISHMANIASIS_INFECTION
                                                                                                                                                                       FRANCO_BLOOD_SANOFI_PASTEUR_SA_INACTIVATED_INFLUENZA_VACCINE_CORRELATED_WITH_ANTIBODY_RESPONSE_AGE_18_40YO_3DY_POSITIVE, FRANCO_BLOOD_SANOFI_PASTEUR_SA_INACTIVATED_INFLUENZA_VACCINE_CORRELATED_WITH_ANTIBODY_RESPONSE_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZ
                                                                                                                                                                       MIR6874_5P, MIR6874_5P
                                                                                                                                                                       CHIANG_LIVER_CANCER_SUBCLASS_POLYSOMY7_DN, CHIANG_LIVER_CANCER_SUBCLASS_POLYSOMY7_DN
                                                                                                                                                                        KANNAN_TP53_TARGETS_UP, KANNAN_TP53_TARGETS_UP
                                                                                                                                                                       GSE2770_IL12_VS_IL4_TREATED_ACT_CD4_TCELL_2H_DN, GSE2770_IL12_VS_IL4_TREATED_ACT_CD4_TCELL_2H_DN
                                                                                                                                                                        ABE_VEGFA_TARGETS, ABE_VEGFA_TARGETS
                                                                                                                                                                       MIR627_5P, MIR627_5P
                                                                                                                                                                        GOCC_FILOPODIUM_MEMBRANE, GOCC_FILOPODIUM_MEMBRANE
                                                                                                                                                                        DORSEY_GAB2_TARGETS, DORSEY_GAB2_TARGETS
                                                                                                                                                                        GOCC_PHAGOCYTIC_CUP, GOCC_PHAGOCYTIC_CUP
                                                                                                                                                                        REACTOME_INFLAMMASOMES, REACTOME_INFLAMMASOMES
                                                                                                                                                                       GOBP_RRNA_BASE_METHYLATION, GOBP_RRNA_BASE_METHYLATION
                                                                                                                                                                       HP_FLAT_ACETABULAR_ROOF, HP_FLAT_ACETABULAR_ROOF
                                                                                                                                                                        PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_DN, PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_DN
                                                                                                                                                                        GOCC_ADA2_GCN5_ADA3_TRANSCRIPTION_ACTIVATOR_COMPLEX, GOCC_ADA2_GCN5_ADA3_TRANSCRIPTION_ACTIVATOR_COMPLEX
                                                                                                                                                                        GOBP_NEUROTRANSMITTER_UPTAKE, GOBP_NEUROTRANSMITTER_UPTAKE
                                                                                                                                                                        PID_INTEGRIN_CS_PATHWAY, PID_INTEGRIN_CS_PATHWAY
                                                                                                                                                                        HP_LIMB_PAIN, HP_LIMB_PAIN
                                                                                                                                                                        GOBP_NEGATIVE_REGULATION_OF_ENDOPLASMIC_RETICULUM_UNFOLDED_PROTEIN_RESPONSE, GOBP_NEGATIVE_REGULATION_OF_ENDOPLASMIC_RETICULUM_UNFOLDED_PROTEIN_RESPONSE
                                                                                                                                                                        GOMF_MITOGEN_ACTIVATED_PROTEIN_KINASE_BINDING, GOMF_MITOGEN_ACTIVATED_PROTEIN_KINASE_BINDING
                                                                                                                                                                        HOFFMANN PRE BI TO LARGE PRE BII LYMPHOCYTE UP, HOFFMANN PRE BI TO LARGE PRE BII LYMPHOCYTE UP
                                                                                                                                                                        REACTOME_THE_NLRP3_INFLAMMASOME, REACTOME_THE_NLRP3_INFLAMMASOME
                                                                                                                                                                         BIOCARTA_EGFR_SMRTE_PATHWAY, BIOCARTA_EGFR_SMRTE_PATHWAY
                                                                                                                                                                        WP SIGNAL TRANSDUCTION THROUGH IL1R, WP SIGNAL TRANSDUCTION THROUGH IL1R
                                                                                                                                                                        MIR296_5P, MIR296_5P
                                                                                                                                                                        ZHONG_PFC_MAJOR_TYPES_EXCITATORY_NEURON, ZHONG_PFC_MAJOR_TYPES_EXCITATORY_NEURON
                                                                                                                                                                         WHITESIDE CISPLATIN RESISTANCE DN, WHITESIDE CISPLATIN RESISTANCE DN
                                                                                                                                                                         HP_SPONDYLOEPIMETAPHYSEAL_DYSPLASIA, HP_SPONDYLOEPIMETAPHYSEAL_DYSPLASIA
                                                                                                                                                                         GOBP_POSITIVE_REGULATION_OF_HISTONE_H3_K4_METHYLATION, GOBP_POSITIVE_REGULATION_OF_HISTONE_H3_K4_METHYLATION
                                                                                                                                                                        HP_LOWER_LIMB_PAIN, HP_LOWER_LIMB_PAIN
                                                                                                                                                                         SEKI INFLAMMATORY RESPONSE LPS DN, SEKI INFLAMMATORY RESPONSE LPS DN
```