```
GSE10239_NAIVE_VS_DAY4.5_EFF_CD8_TCELL_UP, GSE10239_NAIVE_VS_DAY4.5_EFF_CD8_TCELL_UP
                                                                                                                    GSE17186_CD21LOW_VS_CD21HIGH_TRANSITIONAL_BCELL_CORD_BLOOD_DN, GSE17186_CD21LOW_VS_CD21HIGH_TRANSITIONAL_BCELL_CORD_BLOOD_DN
                                                                                                                   GSE31082_DN_VS_DP_THYMOCYTE_DN, GSE31082_DN_VS_DP_THYMOCYTE_DN
                                                                                                                    GSE2405_S_AUREUS_VS_A_PHAGOCYTOPHILUM_NEUTROPHIL_DN, GSE2405_S_AUREUS_VS_A_PHAGOCYTOPHILUM_NEUTROPHIL_DN
                                                                                                                    GSE8685_IL2_STARVED_VS_IL2_ACT_IL2_STARVED_CD4_TCELL_UP, GSE8685_IL2_STARVED_VS_IL2_ACT_IL2_STARVED_CD4_TCELL_UP
                                                                                                                   GSE25088_WT_VS_STAT6_KO_MACROPHAGE_IL4_STIM_UP, GSE25088_WT_VS_STAT6_KO_MACROPHAGE_IL4_STIM_UP
                                                                                                                   GSE15624_3H_VS_6H_HALOFUGINONE_TREATED_CD4_TCELL_UP, GSE15624_3H_VS_6H_HALOFUGINONE_TREATED_CD4_TCELL_UP
                                                                                                                   GSE24142_EARLY_THYMIC_PROGENITOR_VS_DN3_THYMOCYTE_DN, GSE24142_EARLY_THYMIC_PROGENITOR_VS_DN3_THYMOCYTE_DN
                                                                                                                   GSE15330_GRANULOCYTE_MONOCYTE_PROGENITOR_VS_PRO_BCELL_DN, GSE15330_GRANULOCYTE_MONOCYTE_PROGENITOR_VS_PRO_BCELL_DN
                                                                                                                   GSE40666_NAIVE_VS_EFFECTOR_CD8_TCELL_UP, GSE40666_NAIVE_VS_EFFECTOR_CD8_TCELL_UP
                                                                                                                   HOXA7 TARGET GENES, HOXA7 TARGET GENES
                                                                                                                   GSE21033_1H_VS_24H_POLYIC_STIM_DC_UP, GSE21033_1H_VS_24H_POLYIC_STIM_DC_UP
                                                                                                                   GSE40666_WT_VS_STAT1_KO_CD8_TCELL_UP, GSE40666_WT_VS_STAT1_KO_CD8_TCELL_UP
                                                                                                                   GSE45365_HEALTHY_VS_MCMV_INFECTION_CD11B_DC_UP, GSE45365_HEALTHY_VS_MCMV_INFECTION_CD11B_DC_UP
                                                                                                                   GSE37301_MULTIPOTENT_PROGENITOR_VS_CD4_TCELL_UP, GSE37301_MULTIPOTENT_PROGENITOR_VS_CD4_TCELL_UP
                                                                                                                   GSE24142_EARLY_THYMIC_PROGENITOR_VS_DN3_THYMOCYTE_ADULT_DN, GSE24142_EARLY_THYMIC_PROGENITOR_VS_DN3_THYMOCYTE_ADULT_DN
                                                                                                                   GSE339_CD4POS_VS_CD8POS_DC_IN_CULTURE_UP, GSE339_CD4POS_VS_CD8POS_DC_IN_CULTURE_UP
                                                                                                                   GSE26669_CD4_VS_CD8_TCELL_IN_MLR_COSTIM_BLOCK_DN, GSE26669_CD4_VS_CD8_TCELL_IN_MLR_COSTIM_BLOCK_DN
                                                                                                                   GSE21033_1H_VS_12H_POLYIC_STIM_DC_UP, GSE21033_1H_VS_12H_POLYIC_STIM_DC_UP
                                                                                                                   GSE37532_WT_VS_PPARG_KO_VISCERAL_ADIPOSE_TISSUE_TCONV_UP, GSE37532_WT_VS_PPARG_KO_VISCERAL_ADIPOSE_TISSUE_TCONV_UP
                                                                                                                   GSE23568_CTRL_TRANSDUCED_VS_WT_CD8_TCELL_DN, GSE23568_CTRL_TRANSDUCED_VS_WT_CD8_TCELL_DN
                                                                                                                   GOBP_TOR_SIGNALING, GOBP_TOR_SIGNALING
                                                                                                                   GSE8621 LPS PRIMED UNSTIM VS LPS PRIMED AND LPS STIM MACROPHAGE UP, GSE8621 LPS PRIMED UNSTIM VS LPS PRIMED AND LPS STIM MACROPHAGE UP
                                                                                                                   GSE7218_UNSTIM_VS_ANTIGEN_STIM_THROUGH_IGG_BCELL_DN, GSE7218_UNSTIM_VS_ANTIGEN_STIM_THROUGH_IGG_BCELL_DN
                                                                                                                   GSE28726_NAIVE_VS_ACTIVATED_NKTCELL_UP, GSE28726_NAIVE_VS_ACTIVATED_NKTCELL_UP
                                                                                                                   GSE11924_TH1_VS_TH2_CD4_TCELL_UP, GSE11924_TH1_VS_TH2_CD4_TCELL_UP
                                                                                                                   GSE10147_IL3_AND_HIVP17_VS_IL3_AND_CPG_STIM_PDC_DN, GSE10147_IL3_AND_HIVP17_VS_IL3_AND_CPG_STIM_PDC_DN
                                                                                                                   GOBP_REGULATION_OF_TOR_SIGNALING, GOBP_REGULATION_OF_TOR_SIGNALING
                                                                                                                   GSE23114 WT_VS_SLE2C1_MOUSE_SPLEEN_B1A_BCELL_DN, GSE23114 WT_VS_SLE2C1_MOUSE_SPLEEN_B1A_BCELL_DN
                                                                                                                   GSE14415_FOXP3_KO_NATURAL_TREG_VS_TCONV_DN, GSE14415_FOXP3_KO_NATURAL_TREG_VS_TCONV_DN
                                                                                                                   GSE24574_BCL6_HIGH_TFH_VS_NAIVE_CD4_TCELL_UP, GSE24574_BCL6_HIGH_TFH_VS_NAIVE_CD4_TCELL_UP
                                                                                                                   GOMF_SH3_DOMAIN_BINDING, GOMF_SH3_DOMAIN_BINDING
                                                                                                                   GSE9946_IMMATURE_VS_MATURE_STIMULATORY_DC_UP, GSE9946_IMMATURE_VS_MATURE_STIMULATORY_DC_UP
                                                                                                                   GOMF_SIGNALING_ADAPTOR_ACTIVITY, GOMF_SIGNALING_ADAPTOR_ACTIVITY
                                                                                                                  HP_ABNORMAL_SACRUM_MORPHOLOGY, HP_ABNORMAL_SACRUM_MORPHOLOGY
                                                                                                                   GSE41176_WT_VS_TAK1_KO_ANTI_IGM_STIM_BCELL_1H_UP, GSE41176_WT_VS_TAK1_KO_ANTI_IGM_STIM_BCELL_1H_UP
                                                                                                                   GSE21033_3H_VS_12H_POLYIC_STIM_DC_UP, GSE21033_3H_VS_12H_POLYIC_STIM_DC_UP
                                                                                                                   GSE16450_IMMATURE_VS_MATURE_NEURON_CELL_LINE_6H_IFNA_STIM_DN, GSE16450_IMMATURE_VS_MATURE_NEURON_CELL_LINE_6H_IFNA_STIM_DN
                                                                                                                   HP_CLEFT_UPPER_LIP, HP_CLEFT_UPPER_LIP
                                                                                                                   REACTOME_FANCONI_ANEMIA_PATHWAY, REACTOME_FANCONI_ANEMIA_PATHWAY
                                                                                                                   HP_LEUKOCYTOSIS, HP_LEUKOCYTOSIS
                                                                                                                   HP_AUTISM, HP_AUTISM
                                                                                                                   HP_INTESTINAL_MALROTATION, HP_INTESTINAL_MALROTATION
                                                                                                                   HP SKIN DIMPLE, HP SKIN DIMPLE
                                                                                                                   DESCARTES FETAL MUSCLE LYMPHOID CELLS, DESCARTES FETAL MUSCLE LYMPHOID CELLS
                                                                                                                   GOBP_REGULATION_OF_TRANSCRIPTION_BY_RNA_POLYMERASE_I, GOBP_REGULATION_OF_TRANSCRIPTION_BY_RNA_POLYMERASE_I
                                                                                                                   HP_SYNOSTOSIS_OF_JOINTS, HP_SYNOSTOSIS_OF_JOINTS
OCYTOPHILUM_STIM_NEUTROPHIL_DN, GSE2405_0H_VS_1.5H_A_PHAGOCYTOPHILUM_STIM_NEUTROPHIL_DN
                                                                                                                   CAVIN1_TARGET_GENES, CAVIN1_TARGET_GENES
                                                                                                                    NAKAYA_PBMC_FLUAD_MALE_AGE_14_27YO_1D_POSTBOOST_VS_0D_PREIMM_MF59_ADJUVANTED_1DY_GENES_IN_BTM_M40_AND_M53_DN, NAKAYA_PBMC_FLUAD_MALE_AGE_14_27YO_1D_POSTBOOST_VS_0D_PREIMM_MF59_ADJUVANTED_11
                                                                                                                    GSE11884_WT_VS_FURIN_KO_NAIVE_CD4_TCELL_UP, GSE11884_WT_VS_FURIN_KO_NAIVE_CD4_TCELL_UP
                                                                                                                    GSE33374_CD8_ALPHAALPHA_VS_ALPHABETA_CD161_HIGH_TCELL_UP, GSE33374_CD8_ALPHAALPHA_VS_ALPHABETA_CD161_HIGH_TCELL_UP
                                                                                                                   GOBP_RAC_PROTEIN_SIGNAL_TRANSDUCTION, GOBP_RAC_PROTEIN_SIGNAL_TRANSDUCTION
                                                                                                                   HP_NON_HODGKIN_LYMPHOMA, HP_NON_HODGKIN_LYMPHOMA
                                                                                                                   HP_HYPOPLASIA_OF_THE_RADIUS, HP_HYPOPLASIA_OF_THE_RADIUS
                                                                                                                   HP_ABNORMAL_MORPHOLOGY_OF_THE_RADIUS, HP_ABNORMAL_MORPHOLOGY_OF_THE_RADIUS
                                                                                                                   GOBP_NUCLEOLAR_LARGE_RRNA_TRANSCRIPTION_BY_RNA_POLYMERASE_I, GOBP_NUCLEOLAR_LARGE_RRNA_TRANSCRIPTION_BY_RNA_POLYMERASE_I
                                                                                                                   HP_ABNORMAL_INSULIN_LEVEL, HP_ABNORMAL_INSULIN_LEVEL
                                                                                                                   HP_ABNORMAL_FINGERTIP_MORPHOLOGY, HP_ABNORMAL_FINGERTIP_MORPHOLOGY
                                                                                                                   GOBP_POSITIVE_T_CELL_SELECTION, GOBP_POSITIVE_T_CELL_SELECTION
                                                                                                                   HP_DENTAL_CROWDING, HP_DENTAL_CROWDING
                                                                                                                   WP_MIRNAS_INVOLVED_IN_DNA_DAMAGE_RESPONSE, WP_MIRNAS_INVOLVED_IN_DNA_DAMAGE_RESPONSE
                                                                                                                    MIR4482_5P, MIR4482_5P
                                                                                                                   MIR1182, MIR1182
                                                                                                                    LOPES_METHYLATED_IN_COLON_CANCER_UP, LOPES_METHYLATED_IN_COLON_CANCER_UP
                                                                                                                   GOBP_POSITIVE_REGULATION_OF_TRANSCRIPTION_BY_RNA_POLYMERASE_I, GOBP_POSITIVE_REGULATION_OF_TRANSCRIPTION_BY_RNA_POLYMERASE_I
                                                                                                                   GOBP_T_CELL_SELECTION, GOBP_T_CELL_SELECTION
                                                                                                                   HP_NARROW_NOSE, HP_NARROW_NOSE
                                                                                                                   GOBP_REGULATION_OF_NON_MOTILE_CILIUM_ASSEMBLY, GOBP_REGULATION_OF_NON_MOTILE_CILIUM_ASSEMBLY
                                                                                                                   HP_ABNORMAL_NUMBER_OF_INCISORS, HP_ABNORMAL_NUMBER_OF_INCISORS
                                                                                                                   BIOCARTA_IL17_PATHWAY, BIOCARTA_IL17_PATHWAY
                                                                                                                   WP_PATHOGENESIS_OF_SARSCOV2_MEDIATED_BY_NSP9NSP10_COMPLEX, WP_PATHOGENESIS_OF_SARSCOV2_MEDIATED_BY_NSP9NSP10_COMPLEX
                                                                                                                   MIR576_3P, MIR576_3P
                                                                                                                   GOBP_ACTIVATION_OF_CYSTEINE_TYPE_ENDOPEPTIDASE_ACTIVITY, GOBP_ACTIVATION_OF_CYSTEINE_TYPE_ENDOPEPTIDASE_ACTIVITY
                                                                                                                   MOREIRA_RESPONSE_TO_TSA_DN, MOREIRA_RESPONSE_TO_TSA_DN
                                                                                                                   HP_NATAL_TOOTH, HP_NATAL_TOOTH
                                                                                                                   HP_STENOSIS_OF_THE_EXTERNAL_AUDITORY_CANAL, HP_STENOSIS_OF_THE_EXTERNAL_AUDITORY_CANAL
                                                                                                                   HP_ABNORMALITY_OF_PRIMARY_TEETH, HP_ABNORMALITY_OF_PRIMARY_TEETH
                                                                                                                   HP_ACQUIRED_ABNORMAL_HAIR_PATTERN, HP_ACQUIRED_ABNORMAL_HAIR_PATTERN
                                                                                                                   HP PROTRACTED DIARRHEA, HP PROTRACTED DIARRHEA
                                                                                                                   BIOCARTA_TCAPOPTOSIS_PATHWAY, BIOCARTA_TCAPOPTOSIS_PATHWAY
                                                                                                                   BIOCARTA_TCYTOTOXIC_PATHWAY, BIOCARTA_TCYTOTOXIC_PATHWAY
                                                                                                                   BIOCARTA_THELPER_PATHWAY, BIOCARTA_THELPER_PATHWAY
                                                                                                                   GOBP_INOSITOL_METABOLIC_PROCESS, GOBP_INOSITOL_METABOLIC_PROCESS
                                                                                                                   HP_INCREASED_CIRCULATING_IGA_LEVEL, HP_INCREASED_CIRCULATING_IGA_LEVEL
                                                                                                                   GOBP_NEGATIVE_REGULATION_OF_CALCINEURIN_MEDIATED_SIGNALING, GOBP_NEGATIVE_REGULATION_OF_CALCINEURIN_MEDIATED_SIGNALING
                                                                                                                   HP_WIDELY_PATENT_FONTANELLES_AND_SUTURES, HP_WIDELY_PATENT_FONTANELLES_AND_SUTURES
                                                                                                                   REACTOME_ROLE_OF_SECOND_MESSENGERS_IN_NETRIN_1_SIGNALING, REACTOME_ROLE_OF_SECOND_MESSENGERS_IN_NETRIN_1_SIGNALING
                                                                                                                   GOBP_CELL_CELL_ADHESION_MEDIATED_BY_INTEGRIN, GOBP_CELL_CELL_ADHESION_MEDIATED_BY_INTEGRIN
                                                                                                                    BIOCARTA_CTL_PATHWAY, BIOCARTA_CTL_PATHWAY
                                                                                                                   GSE11367_CTRL_VS_IL17_TREATED_SMOOTH_MUSCLE_CELL_UP, GSE11367_CTRL_VS_IL17_TREATED_SMOOTH_MUSCLE_CELL_UP
                                                                                                                   WEBER_METHYLATED_HCP_IN_FIBROBLAST_UP, WEBER_METHYLATED_HCP_IN_FIBROBLAST_UP
                                                                                                                   HP_UPPER_EYELID_COLOBOMA, HP_UPPER_EYELID_COLOBOMA
                                                                                                                   HP_BILIARY_TRACT_NEOPLASM, HP_BILIARY_TRACT_NEOPLASM
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