```
GSE10147_IL3_VS_IL3_AND_HIVP17_STIM_PDC_UP, GSE10147_IL3_VS_IL3_AND_HIVP17_STIM_PDC_UP
                                                                                                            GSE11961_MEMORY_BCELL_DAY7_VS_GERMINAL_CENTER_BCELL_DAY7_UP, GSE11961_MEMORY_BCELL_DAY7_VS_GERMINAL_CENTER_BCELL_DAY7_UP
                                                                                                           GSE14308_TH2_VS_TH17_DN, GSE14308_TH2_VS_TH17_DN
                                                                                                           GSE23568 ID3 KO VS WT CD8 TCELL DN, GSE23568 ID3 KO VS WT CD8 TCELL DN
                                                                                                           GSE5542_IFNG_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_24H_DN, GSE5542_IFNG_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_24H_DN
                                                                                                           GSE32034_UNTREATED_VS_ROSIGLIZATONE_TREATED_LY6C_HIGH_MONOCYTE_UP, GSE32034_UNTREATED_VS_ROSIGLIZATONE_TREATED_LY6C_HIGH_MONOCYTE_UP
                                                                                                           GSE17721_LPS_VS_CPG_16H_BMDC_UP, GSE17721_LPS_VS_CPG_16H_BMDC_UP
                                                                                                           GSE5542_IFNA_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_6H_UP, GSE5542_IFNA_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_6H_UP
                                                                                                           GSE39864_WT_VS_GATA3_KO_TREG_UP, GSE39864_WT_VS_GATA3_KO_TREG_UP
                                                                                                           GSE37605_TREG_VS_TCONV_C57BL6_FOXP3_FUSION_GFP_DN, GSE37605_TREG_VS_TCONV_C57BL6_FOXP3_FUSION_GFP_DN
                                                                                                            GSE30083_SP2_VS_SP3_THYMOCYTE_DN, GSE30083_SP2_VS_SP3_THYMOCYTE_DN
                                                                                                           HP_ALOPECIA, HP_ALOPECIA
                                                                                                            MIR5691 MIR6805 3P, MIR5691 MIR6805 3P
                                                                                                           WP_HIPPOMERLIN_SIGNALING_DYSREGULATION, WP_HIPPOMERLIN_SIGNALING_DYSREGULATION
                                                                                                           HP_ABNORMAL_FINGERNAIL_MORPHOLOGY, HP_ABNORMAL_FINGERNAIL_MORPHOLOGY
                                                                                                           HP_ABNORMAL_TOENAIL_MORPHOLOGY, HP_ABNORMAL_TOENAIL_MORPHOLOGY
                                                                                                           DACOSTA_UV_RESPONSE_VIA_ERCC3_TTD_DN, DACOSTA_UV_RESPONSE_VIA_ERCC3_TTD_DN
                                                                                                            MIR4693_5P, MIR4693_5P
                                                                                                            HP_THICK_LOWER_LIP_VERMILION, HP_THICK_LOWER_LIP_VERMILION
                                                                                                            REACTOME PI METABOLISM, REACTOME PI METABOLISM
                                                                                                            GOMF_KINASE_INHIBITOR_ACTIVITY, GOMF_KINASE_INHIBITOR_ACTIVITY
                                                                                                            GNF2 ANK1, GNF2 ANK1
                                                                                                           GNF2_SPTB, GNF2_SPTB
                                                                                                           GNF2_CDC27, GNF2_CDC27
                                                                                                           SRC_UP.V1_DN, SRC_UP.V1_DN
                                                                                                           GNF2_TAL1, GNF2_TAL1
                                                                                                            AP2REP_01, AP2REP_01
                                                                                                            GSE15659_TREG_VS_TCONV_DN, GSE15659_TREG_VS_TCONV_DN
                                                                                                            GOBP_POSITIVE_REGULATION_OF_PEPTIDYL_TYROSINE_PHOSPHORYLATION, GOBP_POSITIVE_REGULATION_OF_PEPTIDYL_TYROSINE_PHOSPHORYLATION
                                                                                                            HP_ABNORMAL_PULMONARY_VALVE_MORPHOLOGY, HP_ABNORMAL_PULMONARY_VALVE_MORPHOLOGY
                                                                                                            REACTOME_SYNTHESIS_OF_PIPS_AT_THE_PLASMA_MEMBRANE, REACTOME_SYNTHESIS_OF_PIPS_AT_THE_PLASMA_MEMBRANE
                                                                                                            MIR15B_3P, MIR15B_3P
                                                                                                            GSE29618_PRE_VS_DAY7_FLU_VACCINE_MONOCYTE_UP, GSE29618_PRE_VS_DAY7_FLU_VACCINE_MONOCYTE_UP
                                                                                                            HP_ENLARGED_THORAX, HP_ENLARGED_THORAX
                                                                                                            FOXJ2_01, FOXJ2_01
                                                                                                            HP_ANONYCHIA, HP_ANONYCHIA
                                                                                                           HP_ABNORMALITY_OF_THE_DENTAL_PULP, HP_ABNORMALITY_OF_THE_DENTAL_PULP
                                                                                                            GOBP_NEGATIVE_REGULATION_OF_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION, GOBP_NEGATIVE_REGULATION_OF_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION
                                                                                                            GSE6269_HEALTHY_VS_E_COLI_INF_PBMC_DN, GSE6269_HEALTHY_VS_E_COLI_INF_PBMC_DN
                                                                                                            PID_ERBB2_ERBB3_PATHWAY, PID_ERBB2_ERBB3_PATHWAY
                                                                                                           DESCARTES_FETAL_PANCREAS_ERYTHROBLASTS, DESCARTES_FETAL_PANCREAS_ERYTHROBLASTS
S_IL12_IL18_TREATED_ACT_CD4_TCELL_DN, GSE20198_IL12_VS_IL12_IL18_TREATED_ACT_CD4_TCELL_DN
                                                                                                          - HP_APLASIA_CUTIS_CONGENITA, HP_APLASIA_CUTIS_CONGENITA
                                                                                                           REACTOME_CELL_JUNCTION_ORGANIZATION, REACTOME_CELL_JUNCTION_ORGANIZATION
                                                                                                            HP_THICKENED_HELICES, HP_THICKENED_HELICES
                                                                                                            LIAN NEUTROPHIL GRANULE CONSTITUENTS, LIAN NEUTROPHIL GRANULE CONSTITUENTS
                                                                                                           BIOCARTA_SPRY_PATHWAY, BIOCARTA_SPRY_PATHWAY
                                                                                                            HP_FRAGILE_SKIN, HP_FRAGILE_SKIN
                                                                                                            GOBP EMBRYONIC EYE MORPHOGENESIS, GOBP EMBRYONIC EYE MORPHOGENESIS
                                                                                                            REACTOME SIGNALING BY PDGFRA TRANSMEMBRANE JUXTAMEMBRANE AND KINASE DOMAIN MUTANTS, REACTOME SIGNALING BY PDGFRA TRANSMEMBRANE JUXTAMEMBRAN
                                                                                                            HP_ABNORMALITY_OF_DENTAL_COLOR, HP_ABNORMALITY_OF_DENTAL_COLOR
                                                                                                            HP_ATROPHIC_SCARS, HP_ATROPHIC_SCARS
                                                                                                            PID_WNT_CANONICAL_PATHWAY, PID_WNT_CANONICAL_PATHWAY
                                                                                                            BOYAULT_LIVER_CANCER_SUBCLASS_G6_DN, BOYAULT_LIVER_CANCER_SUBCLASS_G6_DN
                                                                                                            GOBP FIBROBLAST ACTIVATION, GOBP FIBROBLAST ACTIVATION
                                                                                                            HARALAMBIEVA_PBMC_TIV_AGE_50_74YO_CORRELATED_WITH_MEMORY_B_CELL_RESPONSE_3DY_NEGATIVE, HARALAMBIEVA_PBMC_TIV_AGE_50_74YO_CORRELATED_WITH_MEMORY_B_
                                                                                                            HP_ULNAR_DEVIATION_OF_FINGER, HP_ULNAR_DEVIATION_OF_FINGER
                                                                                                            GOBP_PROTEIN_NITROSYLATION, GOBP_PROTEIN_NITROSYLATION
                                                                                                            REACTOME_TIE2_SIGNALING, REACTOME_TIE2_SIGNALING
                                                                                                            REACTOME_SHC_MEDIATED_CASCADE_FGFR3, REACTOME_SHC_MEDIATED_CASCADE_FGFR3
                                                                                                            REACTOME_ERYTHROPOIETIN_ACTIVATES_RAS, REACTOME_ERYTHROPOIETIN_ACTIVATES_RAS
                                                                                                            REACTOME_MET_ACTIVATES_RAS_SIGNALING, REACTOME_MET_ACTIVATES_RAS_SIGNALING
                                                                                                            GOBP_EMBRYONIC_CAMERA_TYPE_EYE_MORPHOGENESIS, GOBP_EMBRYONIC_CAMERA_TYPE_EYE_MORPHOGENESIS
                                                                                                            HP_CALVARIAL_SKULL_DEFECT, HP_CALVARIAL_SKULL_DEFECT
                                                                                                           HU_FETAL_RETINA_MULLER, HU_FETAL_RETINA_MULLER
                                                                                                            BIOCARTA_CDK5_PATHWAY, BIOCARTA_CDK5_PATHWAY
                                                                                                           WP_TGFB_SIGNALING_IN_THYROID_CELLS_FOR_EPITHELIALMESENCHYMAL_TRANSITION, WP_TGFB_SIGNALING_IN_THYROID_CELLS_FOR_EPITHELIALMESENCHYMAL_TRANSITION
                                                                                                           REACTOME_SHC_MEDIATED_CASCADE_FGFR1, REACTOME_SHC_MEDIATED_CASCADE_FGFR1
                                                                                                           HP_ORAL_MUCOSAL_BLISTERS, HP_ORAL_MUCOSAL_BLISTERS
                                                                                                           GOCC_NADPH_OXIDASE_COMPLEX, GOCC_NADPH_OXIDASE_COMPLEX
                                                                                                           HP_POPLITEAL_PTERYGIUM, HP_POPLITEAL_PTERYGIUM
                                                                                                           GOCC_HEMIDESMOSOME, GOCC_HEMIDESMOSOME
                                                                                                           REACTOME_SHC_MEDIATED_CASCADE_FGFR4, REACTOME_SHC_MEDIATED_CASCADE_FGFR4
                                                                                                           GOBP_PERICARDIUM_DEVELOPMENT, GOBP_PERICARDIUM_DEVELOPMENT
                                                                                                           GOBP_AXIS_ELONGATION_INVOLVED_IN_SOMITOGENESIS, GOBP_AXIS_ELONGATION_INVOLVED_IN_SOMITOGENESIS
                                                                                                           GOMF_ANKYRIN_BINDING, GOMF_ANKYRIN_BINDING
                                                                                                           REACTOME_FCERI_MEDIATED_MAPK_ACTIVATION, REACTOME_FCERI_MEDIATED_MAPK_ACTIVATION
                                                                                                           HP_RESTRICTIVE_CARDIOMYOPATHY, HP_RESTRICTIVE_CARDIOMYOPATHY
                                                                                                           HP_ONYCHOGRYPOSIS_OF_TOENAILS, HP_ONYCHOGRYPOSIS_OF_TOENAILS
                                                                                                           HP_UNILATERAL_CRYPTORCHIDISM, HP_UNILATERAL_CRYPTORCHIDISM
                                                                                                           WILSON_PROTEASES_AT_TUMOR_BONE_INTERFACE_DN, WILSON_PROTEASES_AT_TUMOR_BONE_INTERFACE_DN
                                                                                                           CHOI_ATL_ACUTE_STAGE, CHOI_ATL_ACUTE_STAGE
                                                                                                           GOBP_MAST_CELL_PROLIFERATION, GOBP_MAST_CELL_PROLIFERATION
```

MIR4638_5P, MIR4638_5P

HP OPTIC DISC DRUSEN, HP OPTIC DISC DRUSEN

GSE20198_IL12_VS_IFNA_TREATED_ACT_CD4_TCELL_UP, GSE20198_IL12_VS_IFNA_TREATED_ACT_CD4_TCELL_UP

GSE36891_UNSTIM_VS_PAM_TLR2_STIM_PERITONEAL_MACROPHAGE_UP, GSE36891_UNSTIM_VS_PAM_TLR2_STIM_PERITONEAL_MACROPHAGE_UP