```
GSE32533_WT_VS_MIR17_KO_ACT_CD4_TCELL_DN, GSE32533_WT_VS_MIR17_KO_ACT_CD4_TCELL_DN
                                                                                                      GSE1740_MCSF_VS_MCSF_AND_IFNG_DAY2_DERIVED_MACROPHAGE_DN, GSE1740_MCSF_VS_MCSF_AND_IFNG_DAY2_DERIVED_MACROPHAGE_DN
                                                                                                      GSE1740_MCSF_VS_MCSF_AND_IFNG_DAY2_DERIVED_MACROPHAGE_WITH_IFNA_STIM_UP, GSE1740_MCSF_VS_MCSF_AND_IFNG_DAY2_DERIVED_MACROPHAGE_WITH_IFNA_STIM_UP
                                                                                                      GSE1740_UNSTIM_VS_IFNA_STIMULATED_MCSF_IFNG_DERIVED_MACROPHAGE_DN, GSE1740_UNSTIM_VS_IFNA_STIMULATED_MCSF_IFNG_DERIVED_MACROPHAGE_DN
                                                                                                      GSE1112_OT1_VS_HY_CD8AB_THYMOCYTE_RTOC_CULTURE_DN, GSE1112_OT1_VS_HY_CD8AB_THYMOCYTE_RTOC_CULTURE_DN
                                                                                                      GSE38696_LIGHT_ZONE_VS_DARK_ZONE_BCELL_UP, GSE38696_LIGHT_ZONE_VS_DARK_ZONE_BCELL_UP
                                                                                                      GSE37416_12H_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_UP, GSE37416_12H_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_UP
                                                                                                      GSE45365_NK_CELL_VS_BCELL_MCMV_INFECTION_UP, GSE45365_NK_CELL_VS_BCELL_MCMV_INFECTION_UP
                                                                                                      GSE2770_UNTREATED_VS_IL12_TREATED_ACT_CD4_TCELL_2H_UP, GSE2770_UNTREATED_VS_IL12_TREATED_ACT_CD4_TCELL_2H_UP
                                                                                                      GSE3982_NEUTROPHIL_VS_EFF_MEMORY_CD4_TCELL_UP, GSE3982_NEUTROPHIL_VS_EFF_MEMORY_CD4_TCELL_UP
                                                                                                      GSE2770_IL12_ACT_VS_ACT_CD4_TCELL_2H_DN, GSE2770_IL12_ACT_VS_ACT_CD4_TCELL_2H_DN
                                                                                                      GSE1791_CTRL_VS_NEUROMEDINU_IN_T_CELL_LINE_12H_UP, GSE1791_CTRL_VS_NEUROMEDINU_IN_T_CELL_LINE_12H_UP
                                                                                                      GSE2770_IL12_AND_TGFB_VS_IL4_TREATED_ACT_CD4_TCELL_2H_DN, GSE2770_IL12_AND_TGFB_VS_IL4_TREATED_ACT_CD4_TCELL_2H_DN
                                                                                                      GSE3982_NEUTROPHIL_VS_NKCELL_UP, GSE3982_NEUTROPHIL_VS_NKCELL_UP
                                                                                                      GSE2770_TGFB_AND_IL4_VS_IL12_TREATED_ACT_CD4_TCELL_48H_UP, GSE2770_TGFB_AND_IL4_VS_IL12_TREATED_ACT_CD4_TCELL_48H_UP
                                                                                                      GSE3982_NEUTROPHIL_VS_CENT_MEMORY_CD4_TCELL_UP, GSE3982_NEUTROPHIL_VS_CENT_MEMORY_CD4_TCELL_UP
                                                                                                      GSE3982_CTRL_VS_IGE_STIM_MAST_CELL_UP, GSE3982_CTRL_VS_IGE_STIM_MAST_CELL_UP
                                                                                                      GSE14308_TH17_VS_INDUCED_TREG_UP, GSE14308_TH17_VS_INDUCED_TREG_UP
                                                                                                      GSE3982 DC_VS_EFF_MEMORY_CD4_TCELL_UP, GSE3982_DC_VS_EFF_MEMORY_CD4_TCELL_UP
                                                                                                      GSE25087 TREG VS TCONV FETUS UP, GSE25087 TREG VS TCONV FETUS UP
                                                                                                      GSE10273_HIGH_VS_LOW_IL7_TREATED_IRF4_8_NULL_PRE_BCELL_UP, GSE10273_HIGH_VS_LOW_IL7_TREATED_IRF4_8_NULL_PRE_BCELL_UP
                                                                                                      GSE24142_DN2_VS_DN3_THYMOCYTE_ADULT_DN, GSE24142_DN2_VS_DN3_THYMOCYTE_ADULT_DN
                                                                                                      GSE40666_UNTREATED_VS_IFNA_STIM_STAT4_KO_EFFECTOR_CD8_TCELL_90MIN_DN, GSE40666_UNTREATED_VS_IFNA_STIM_STAT4_KO_EFFECTOR_CD8_TCELL_90MIN_DN
                                                                                                      GSE41176_UNSTIM_VS_ANTI_IGM_STIM_BCELL_6H_UP, GSE41176_UNSTIM_VS_ANTI_IGM_STIM_BCELL_6H_UP
                                                                                                      GSE26030_UNSTIM_VS_RESTIM_TH1_DAY5_POST_POLARIZATION_UP, GSE26030_UNSTIM_VS_RESTIM_TH1_DAY5_POST_POLARIZATION_UP
                                                                                                      GSE25123_WT_VS_PPARG_KO_MACROPHAGE_UP, GSE25123_WT_VS_PPARG_KO_MACROPHAGE_UP
                                                                                                      GSE5679_CTRL_VS_RARA_AGONIST_AM580_TREATED_DC_DN, GSE5679_CTRL_VS_RARA_AGONIST_AM580_TREATED_DC_DN
                                                                                                      GSE16450 CTRL VS IFNA 12H STIM MATURE NEURON CELL LINE DN, GSE16450 CTRL VS IFNA 12H STIM MATURE NEURON CELL LINE DN
                                                                                                      GSE3982 BASOPHIL VS NKCELL UP, GSE3982 BASOPHIL VS NKCELL UP
                                                                                                      GSE2770_UNTREATED_VS_IL12_TREATED_ACT_CD4_TCELL_48H_UP, GSE2770_UNTREATED_VS_IL12_TREATED_ACT_CD4_TCELL_48H_UP
                                                                                                      GSE3982_MAST_CELL_VS_TH1_UP, GSE3982_MAST_CELL_VS_TH1_UP
                                                                                                      GSE2128_C57BL6_VS_NOD_CD4CD8_DP_THYMOCYTE_UP, GSE2128_C57BL6_VS_NOD_CD4CD8_DP_THYMOCYTE_UP
                                                                                                      GSE36078_WT_VS_IL1R_KO_LUNG_DC_AFTER_AD5_T425A_HEXON_INF_DN, GSE36078_WT_VS_IL1R_KO_LUNG_DC_AFTER_AD5_T425A_HEXON_INF_DN
                                                                                                      GSE37301_RAG2_KO_VS_RAG2_AND_ETS1_KO_NK_CELL_UP, GSE37301_RAG2_KO_VS_RAG2_AND_ETS1_KO_NK_CELL_UP
                                                                                                      GSE36888_UNTREATED_VS_IL2_TREATED_STAT5_AB_KNOCKIN_TCELL_6H_UP, GSE36888_UNTREATED_VS_IL2_TREATED_STAT5_AB_KNOCKIN_TCELL_6H_UP
                                                                                                      GSE2770_IL12_AND_TGFB_ACT_VS_ACT_CD4_TCELL_48H_UP, GSE2770_IL12_AND_TGFB_ACT_VS_ACT_CD4_TCELL_48H_UP
                                                                                                     GO_NEGATIVE_REGULATION_OF_GENE_EXPRESSION_EPIGENETIC, GO_NEGATIVE_REGULATION_OF_GENE_EXPRESSION_EPIGENETIC
                                                                                                      GSE1791_CTRL_VS_NEUROMEDINU_IN_T_CELL_LINE_0.8H_UP, GSE1791_CTRL_VS_NEUROMEDINU_IN_T_CELL_LINE_0.8H_UP
                                                                                                     MODULE_332, MODULE_332
                                                                                                     GO_CHROMATIN_SILENCING, GO_CHROMATIN_SILENCING
                                                                                                      GSE7460 CD8 TCELL VS CD4 TCELL ACT UP, GSE7460 CD8 TCELL VS CD4 TCELL ACT UP
                                                                                                      GSE360 L DONOVANI_VS_B_MALAYI_HIGH_DOSE_MAC_UP, GSE360 L DONOVANI_VS_B_MALAYI_HIGH_DOSE_MAC_UP
                                                                                                      GSE21927 BALBC VS C57BL6 MONOCYTE SPLEEN UP, GSE21927 BALBC VS C57BL6 MONOCYTE SPLEEN UP
                                                                                                      HALLMARK_COAGULATION, HALLMARK_COAGULATION
                                                                                                      GO HORMONE RECEPTOR BINDING, GO HORMONE RECEPTOR BINDING
                                                                                                      GO REGULATION OF EPITHELIAL CELL MIGRATION, GO REGULATION OF EPITHELIAL CELL MIGRATION
                                                                                                      chr1q42, chr1q42
                                                                                                      GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_UP, GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_UP
                                                                                                      GSE360_CTRL_VS_B_MALAYI_HIGH_DOSE_DC_DN, GSE360_CTRL_VS_B_MALAYI_HIGH_DOSE_DC_DN
                                                                                                      GSE17721_CTRL_VS_LPS_2H_BMDC_DN, GSE17721_CTRL_VS_LPS_2H_BMDC_DN
                                                                                                      GO_ANDROGEN_RECEPTOR_SIGNALING_PATHWAY, GO_ANDROGEN_RECEPTOR_SIGNALING_PATHWAY
                                                                                                      GO_ANDROGEN_RECEPTOR_BINDING, GO_ANDROGEN_RECEPTOR_BINDING
                                                                                                      GO POSITIVE REGULATION OF EPITHELIAL CELL MIGRATION, GO POSITIVE REGULATION OF EPITHELIAL CELL MIGRATION
                                                                                                      GO_INTRACELLULAR_STEROID_HORMONE_RECEPTOR_SIGNALING_PATHWAY, GO_INTRACELLULAR_STEROID_HORMONE_RECEPTOR_SIGNALING_PATHWAY
                                                                                                      GO CYTOKINE BINDING, GO CYTOKINE BINDING
                                                                                                      PID_RETINOIC_ACID_PATHWAY, PID_RETINOIC_ACID_PATHWAY
                                                                                                      GO_WNT_SIGNALING_PATHWAY_CALCIUM_MODULATING_PATHWAY, GO_WNT_SIGNALING_PATHWAY_CALCIUM_MODULATING_PATHWAY
                                                                                                      GO_EXTRACELLULAR_MATRIX_BINDING, GO_EXTRACELLULAR_MATRIX_BINDING
                                                                                                      GO_CILIARY_BASAL_BODY, GO_CILIARY_BASAL_BODY
                                                                                                      PID_VEGFR1_PATHWAY, PID_VEGFR1_PATHWAY
                                                                                                      BIOCARTA_UCALPAIN_PATHWAY, BIOCARTA_UCALPAIN_PATHWAY
                                                                                                      KEGG_AXON_GUIDANCE, KEGG_AXON_GUIDANCE
                                                                                                      GO_DENDRITE_DEVELOPMENT, GO_DENDRITE_DEVELOPMENT
                                                                                                      GO_REGULATION_OF_ENDOTHELIAL_CELL_MIGRATION, GO_REGULATION_OF_ENDOTHELIAL_CELL_MIGRATION
ROMEDINU_IN_T_CELL_LINE_6H_DN, GSE1791_CTRL_VS_NEUROMEDINU_IN_T_CELL_LINE_6H_DN
                                                                                                      GO_RNA_POLYMERASE_II_REPRESSING_TRANSCRIPTION_FACTOR_BINDING, GO_RNA_POLYMERASE_II_REPRESSING_TRANSCRIPTION_FACTOR_BINDING
                                                                                                      GO_POSITIVE_REGULATION_OF_WOUND_HEALING, GO_POSITIVE_REGULATION_OF_WOUND_HEALING
                                                                                                      GO_ACETYLGALACTOSAMINYLTRANSFERASE_ACTIVITY, GO_ACETYLGALACTOSAMINYLTRANSFERASE_ACTIVITY
                                                                                                      GO_CHONDROITIN_SULFATE_PROTEOGLYCAN_METABOLIC_PROCESS, GO_CHONDROITIN_SULFATE_PROTEOGLYCAN_METABOLIC_PROCESS
                                                                                                      GO_POSITIVE_REGULATION_OF_ENDOTHELIAL_CELL_MIGRATION, GO_POSITIVE_REGULATION_OF_ENDOTHELIAL_CELL_MIGRATION
                                                                                                      GO_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_SIGNALING_PATHWAY, GO_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_SIGNALING_PATHWAY
                                                                                                      SANA_TNF_SIGNALING_DN, SANA_TNF_SIGNALING_DN
                                                                                                      GSE5589_WT_VS_IL6_KO_LPS_AND_IL10_STIM_MACROPHAGE_180MIN_DN, GSE5589_WT_VS_IL6_KO_LPS_AND_IL10_STIM_MACROPHAGE_180MIN_DN
                                                                                                      GSE40441_NRP1_POS_INDUCED_TREG_VS_NRP1_NEG_NATURAL_TREG_UP, GSE40441_NRP1_POS_INDUCED_TREG_VS_NRP1_NEG_NATURAL_TREG_UP
                                                                                                      BECKER_TAMOXIFEN_RESISTANCE_DN, BECKER_TAMOXIFEN_RESISTANCE_DN
                                                                                                      GO_CHONDROITIN_SULFATE_PROTEOGLYCAN_BIOSYNTHETIC_PROCESS, GO_CHONDROITIN_SULFATE_PROTEOGLYCAN_BIOSYNTHETIC_PROCESS
                                                                                                      KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY, KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY
                                                                                                      GO_ENDOTHELIAL_CELL_MIGRATION, GO_ENDOTHELIAL_CELL_MIGRATION
                                                                                                      HINATA_NFKB_TARGETS_FIBROBLAST_UP, HINATA_NFKB_TARGETS_FIBROBLAST_UP
                                                                                                      GO_LIGAND_DEPENDENT_NUCLEAR_RECEPTOR_TRANSCRIPTION_COACTIVATOR_ACTIVITY, GO_LIGAND_DEPENDENT_NUCLEAR_RECEPTOR_TRANSCRIPTION_COACTIVATOR_ACTIVITY
                                                                                                      GO_POSITIVE_REGULATION_OF_PEPTIDYL_TYROSINE_PHOSPHORYLATION, GO_POSITIVE_REGULATION_OF_PEPTIDYL_TYROSINE_PHOSPHORYLATION
                                                                                                      GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_UP, GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_UP
                                                                                                      GO_NEGATIVE_REGULATION_OF_LIPID_STORAGE, GO_NEGATIVE_REGULATION_OF_LIPID_STORAGE
                                                                                                      ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_DN, ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_DN
                                                                                                      COATES_MACROPHAGE_M1_VS_M2_DN, COATES_MACROPHAGE_M1_VS_M2_DN
                                                                                                      PID_INTEGRIN3_PATHWAY, PID_INTEGRIN3_PATHWAY
                                                                                                      GO_CHONDROITIN_SULFATE_BIOSYNTHETIC_PROCESS, GO_CHONDROITIN_SULFATE_BIOSYNTHETIC_PROCESS
                                                                                                      GO_RNA_POLYMERASE_II_CARBOXY_TERMINAL_DOMAIN_KINASE_ACTIVITY, GO_RNA_POLYMERASE_II_CARBOXY_TERMINAL_DOMAIN_KINASE_ACTIVITY
                                                                                                      LABBE_TARGETS_OF_TGFB1_AND_WNT3A_UP, LABBE_TARGETS_OF_TGFB1_AND_WNT3A_UP
                                                                                                      PID_CD8_TCR_DOWNSTREAM_PATHWAY, PID_CD8_TCR_DOWNSTREAM_PATHWAY
                                                                                                      GO_CORECEPTOR_ACTIVITY, GO_CORECEPTOR_ACTIVITY
                                                                                                      GO_POSITIVE_REGULATION_OF_REACTIVE_OXYGEN_SPECIES_METABOLIC_PROCESS, GO_POSITIVE_REGULATION_OF_REACTIVE_OXYGEN_SPECIES_METABOLIC_PROCESS
                                                                                                     GO_POSITIVE_REGULATION_OF_MEMBRANE_PROTEIN_ECTODOMAIN_PROTEOLYSIS, GO_POSITIVE_REGULATION_OF_MEMBRANE_PROTEIN_ECTODOMAIN_PROTEOLYSIS
                                                                                                      GO_REGULATION_OF_MEMBRANE_PROTEIN_ECTODOMAIN_PROTEOLYSIS, GO_REGULATION_OF_MEMBRANE_PROTEIN_ECTODOMAIN_PROTEOLYSIS
                                                                                                      GO_CARBOHYDRATE_HOMEOSTASIS, GO_CARBOHYDRATE_HOMEOSTASIS
                                                                                                      GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW_DN, GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW_DN
                                                                                                      GSE32423_CTRL_VS_IL7_MEMORY_CD8_TCELL_DN, GSE32423_CTRL_VS_IL7_MEMORY_CD8_TCELL_DN
                                                                                                      GO_POSITIVE_REGULATION_OF_PROTEIN_KINASE_B_SIGNALING, GO_POSITIVE_REGULATION_OF_PROTEIN_KINASE_B_SIGNALING
                                                                                                      YANG_BREAST_CANCER_ESR1_DN, YANG_BREAST_CANCER_ESR1_DN
                                                                                                      GO FIBRONECTIN BINDING, GO FIBRONECTIN BINDING
                                                                                                      GO_ACTININ_BINDING, GO_ACTININ_BINDING
                                                                                                      LINDSTEDT_DENDRITIC_CELL_MATURATION_A, LINDSTEDT_DENDRITIC_CELL_MATURATION_A
                                                                                                      GO_REGULATION_OF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_RECEPTOR_SIGNALING_PATHWAY, GO_REGULATION_OF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_RECEPTOR_SIGNAL
                                                                                                      GSE19941_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_DN, GSE19941_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_DN
                                                                                                      GO_REGULATION_OF_ORGANIC_ACID_TRANSPORT, GO_REGULATION_OF_ORGANIC_ACID_TRANSPORT
                                                                                                      GO_REGULATION_OF_LIPID_TRANSPORT, GO_REGULATION_OF_LIPID_TRANSPORT
                                                                                                      GSE3720_UNSTIM_VS_PMA_STIM_VD1_GAMMADELTA_TCELL_DN, GSE3720_UNSTIM_VS_PMA_STIM_VD1_GAMMADELTA_TCELL_DN
                                                                                                      XU_RESPONSE_TO_TRETINOIN_DN, XU_RESPONSE_TO_TRETINOIN_DN
                                                                                                      GO_REGULATION_OF_PROSTAGLANDIN_SECRETION, GO_REGULATION_OF_PROSTAGLANDIN_SECRETION
                                                                                                     GO_NEGATIVE_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY, GO_NEGATIVE_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY
                                                                                                     GO_THYROID_HORMONE_RECEPTOR_BINDING, GO_THYROID_HORMONE_RECEPTOR_BINDING
                                                                                                     GO HORMONE MEDIATED SIGNALING PATHWAY, GO HORMONE MEDIATED SIGNALING PATHWAY
                                                                                                     GO REGULATION OF PROTEIN KINASE B SIGNALING, GO REGULATION OF PROTEIN KINASE B SIGNALING
                                                                                                      PID_SYNDECAN_2_PATHWAY, PID_SYNDECAN_2_PATHWAY
                                                                                                      GSE29615_DAY3_VS_DAY7_LAIV_FLU_VACCINE_PBMC_UP, GSE29615_DAY3_VS_DAY7_LAIV_FLU_VACCINE_PBMC_UP
                                                                                                      GO_MESODERMAL_CELL_DIFFERENTIATION, GO_MESODERMAL_CELL_DIFFERENTIATION
                                                                                                      GO_NEGATIVE_REGULATION_OF_NEURON_DIFFERENTIATION, GO_NEGATIVE_REGULATION_OF_NEURON_DIFFERENTIATION
                                                                                                      BIOCARTA_BARRESTIN_SRC_PATHWAY, BIOCARTA_BARRESTIN_SRC_PATHWAY
                                                                                                      GO_POSITIVE_REGULATION_OF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_RECEPTOR_SIGNALING_PATHWAY, GO_POSITIVE_REGULATION_OF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR
                                                                                                      GSE6269_FLU_VS_STREP_PNEUMO_INF_PBMC_DN, GSE6269_FLU_VS_STREP_PNEUMO_INF_PBMC_DN
                                                                                                      GO_NEGATIVE_REGULATION_OF_DENDRITE_DEVELOPMENT, GO_NEGATIVE_REGULATION_OF_DENDRITE_DEVELOPMENT
                                                                                                      BIOCARTA_TFF_PATHWAY, BIOCARTA_TFF_PATHWAY
                                                                                                      KYNG_WERNER_SYNDROM_DN, KYNG_WERNER_SYNDROM_DN
                                                                                                      GO_INTERLEUKIN_1_PRODUCTION, GO_INTERLEUKIN_1_PRODUCTION
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GO_CELL_MIGRATION_INVOLVED_IN_SPROUTING_ANGIOGENESIS, GO_CELL_MIGRATION_INVOLVED_IN_SPROUTING_ANGIOGENESIS

REACTOME_CHONDROITIN_SULFATE_BIOSYNTHESIS, REACTOME_CHONDROITIN_SULFATE_BIOSYNTHESIS

GO_PEPTIDASE_ACTIVATOR_ACTIVITY, GO_PEPTIDASE_ACTIVATOR_ACTIVITY

SCHOEN_NFKB_SIGNALING, SCHOEN_NFKB_SIGNALING