```
GSE19401_UNSTIM_VS_PAM2CSK4_STIM_FOLLICULAR_DC_DN, GSE19401_UNSTIM_VS_PAM2CSK4_STIM_FOLLICULAR_DC_DN
                                                                                                                 GSE16385 ROSIGLITAZONE IL4 VS IL4 ALONE STIM MACROPHAGE 12H UP, GSE16385 ROSIGLITAZONE IL4 VS IL4 ALONE STIM MACROPHAGE 12H UP
                                                                                                                 GSE1460_NAIVE_CD4_TCELL_CORD_BLOOD_VS_THYMIC_STROMAL_CELL_DN, GSE1460_NAIVE_CD4_TCELL_CORD_BLOOD_VS_THYMIC_STROMAL_CELL_DN
                                                                                                                 GSE29618_BCELL_VS_PDC_DN, GSE29618_BCELL_VS_PDC_DN
                                                                                                                 GSE21380_NON_TFH_VS_TFH_CD4_TCELL_DN, GSE21380_NON_TFH_VS_TFH_CD4_TCELL_DN
                                                                                                                 GSE41867_NAIVE_VS_DAY15_LCMV_CONE13_EFFECTOR_CD8_TCELL_DN, GSE41867_NAIVE_VS_DAY15_LCMV_CONE13_EFFECTOR_CD8_TCELL_DN
                                                                                                                 GSE7509_DC_VS_MONOCYTE_WITH_FCGRIIB_STIM_DN, GSE7509_DC_VS_MONOCYTE_WITH_FCGRIIB_STIM_DN
                                                                                                                 GSE27241_WT_VS_RORGT_KO_TH17_POLARIZED_CD4_TCELL_DN, GSE27241_WT_VS_RORGT_KO_TH17_POLARIZED_CD4_TCELL_DN
                                                                                                                 GSE1460_CD4_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_UP, GSE1460_CD4_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_UP
                                                                                                                 GSE46143_CTRL_VS_LMP2A_TRANSDUCED_CD10_POS_GC_BCELL_DN, GSE46143_CTRL_VS_LMP2A_TRANSDUCED_CD10_POS_GC_BCELL_DN
                                                                                                                 GSE1460_DP_VS_CD4_THYMOCYTE_UP, GSE1460_DP_VS_CD4_THYMOCYTE_UP
                                                                                                                 GSE26495_NAIVE_VS_PD1HIGH_CD8_TCELL_DN, GSE26495_NAIVE_VS_PD1HIGH_CD8_TCELL_DN
                                                                                                                 GSE32423 CTRL_VS_IL7_IL4_MEMORY_CD8_TCELL_UP, GSE32423 CTRL_VS_IL7_IL4_MEMORY_CD8_TCELL_UP
                                                                                                                 GSE339_CD4POS_VS_CD8POS_DC_UP, GSE339_CD4POS_VS_CD8POS_DC_UP
                                                                                                                 GSE29618_PRE_VS_DAY7_FLU_VACCINE_BCELL_DN, GSE29618_PRE_VS_DAY7_FLU_VACCINE_BCELL_DN
                                                                                                                 GSE1460_CD4_THYMOCYTE_VS_THYMIC_STROMAL_CELL_UP, GSE1460_CD4_THYMOCYTE_VS_THYMIC_STROMAL_CELL_UP
                                                                                                                 HALLMARK_GLYCOLYSIS, HALLMARK_GLYCOLYSIS
                                                                                                                 GSE3982_CTRL_VS_LPS_48H_DC_DN, GSE3982_CTRL_VS_LPS_48H_DC_DN
                                                                                                                 GSE20500_CTRL_VS_RARA_ANTAGONIST_TREATED_CD4_TCELL_UP, GSE20500_CTRL_VS_RARA_ANTAGONIST_TREATED_CD4_TCELL_UP
                                                                                                                 GSE29618_PDC_VS_MDC_UP, GSE29618_PDC_VS_MDC_UP
                                                                                                                 GSE20715_WT_VS_TLR4_KO_LUNG_UP, GSE20715_WT_VS_TLR4_KO_LUNG_UP
                                                                                                                 GSE12198_NK_VS_NK_ACT_EXPANSION_SYSTEM_DERIVED_NK_CELL_UP, GSE12198_NK_VS_NK_ACT_EXPANSION_SYSTEM_DERIVED_NK_CELL_UP
                                                                                                                 ZHU_CMV_ALL_UP, ZHU_CMV_ALL_UP
                                                                                                                  GSE40274_CTRL_VS_FOXP3_AND_IRF4_TRANSDUCED_ACTIVATED_CD4_TCELL_UP, GSE40274_CTRL_VS_FOXP3_AND_IRF4_TRANSDUCED_ACTIVATED_CD4_TCELL_UP
                                                                                                                  GSE43955_10H_VS_30H_ACT_CD4_TCELL_UP, GSE43955_10H_VS_30H_ACT_CD4_TCELL_UP
                                                                                                                  GSE6269_E_COLI_VS_STAPH_AUREUS_INF_PBMC_UP, GSE6269_E_COLI_VS_STAPH_AUREUS_INF_PBMC_UP
                                                                                                                  GSE4748_CTRL_VS_CYANOBACTERIUM_LPSLIKE_STIM_DC_1H_DN, GSE4748_CTRL_VS_CYANOBACTERIUM_LPSLIKE_STIM_DC_1H_DN
                                                                                                                  GSE27670_CTRL_VS_BLIMP1_TRANSDUCED_GC_BCELL_DN, GSE27670_CTRL_VS_BLIMP1_TRANSDUCED_GC_BCELL_DN
                                                                                                                  GSE3982_DC_VS_MAC_UP, GSE3982_DC_VS_MAC_UP
                                                                                                                  REACTOME_TRIF_MEDIATED_TLR3_SIGNALING, REACTOME_TRIF_MEDIATED_TLR3_SIGNALING
                                                                                                                  REACTOME_TRAF6_MEDIATED_INDUCTION_OF_NFKB_AND_MAP_KINASES_UPON_TLR7_8_OR_9_ACTIVATION, REACTOME_TRAF6_MEDIATED_INDUCTION_OF_NFKB_AND_MAP_KINASES_UPON_TLR7_8_OR_9_ACTIVATION
                                                                                                                  LUI_THYROID_CANCER_CLUSTER_1, LUI_THYROID_CANCER_CLUSTER_1
                                                                                                                  REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MEDIATED_BY_TLR4_SIGNALING_REPERTOIRE, REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MEDIATED_BY_TLR4_SIGNALING_REPERTOIRE
                                                                                                                  GO_MYELOID_CELL_HOMEOSTASIS, GO_MYELOID_CELL_HOMEOSTASIS
                                                                                                                  PID_CXCR3_PATHWAY, PID_CXCR3_PATHWAY
                                                                                                                  GO_HEXOSAMINIDASE_ACTIVITY, GO_HEXOSAMINIDASE_ACTIVITY
                                                                                                                 GSE46606_DAY1_VS_DAY3_CD40L_IL2_IL5_STIMULATED_IRF4MID_BCELL_UP, GSE46606_DAY1_VS_DAY3_CD40L_IL2_IL5_STIMULATED_IRF4MID_BCELL_UP
                                                                                                                 GO_ACTOMYOSIN, GO_ACTOMYOSIN
                                                                                                                 GO_NEGATIVE_REGULATION_OF_RESPONSE_TO_DNA_DAMAGE_STIMULUS, GO_NEGATIVE_REGULATION_OF_RESPONSE_TO_DNA_DAMAGE_STIMULUS
_NAIVE_CD4_TCELL_CORD_BLOOD_UP, GSE1460_CD4_THYMOCYTE_VS_NAIVE_CD4_TCELL_CORD_BLOOD_UP
                                                                                                                 GO_REGULATION_OF_PROTEIN_SUMOYLATION, GO_REGULATION_OF_PROTEIN_SUMOYLATION
                                                                                                                 GO_STEROL_BINDING, GO_STEROL_BINDING
                                                                                                                  KHETCHOUMIAN TRIM24 TARGETS UP, KHETCHOUMIAN TRIM24 TARGETS UP
                                                                                                                 JOHNSTONE_PARVB_TARGETS_1_DN, JOHNSTONE_PARVB_TARGETS_1_DN
                                                                                                                 GO REGULATION OF CELL PROJECTION ASSEMBLY, GO REGULATION OF CELL PROJECTION ASSEMBLY
                                                                                                                  GO_STEROID_BINDING, GO_STEROID_BINDING
                                                                                                                  BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN, BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN
                                                                                                                  chr4q23, chr4q23
                                                                                                                  GO_HYALURONAN_CATABOLIC_PROCESS, GO_HYALURONAN_CATABOLIC_PROCESS
                                                                                                                 GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW_UP, GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW_UP
                                                                                                                  EPPERT_CE_HSC_LSC, EPPERT_CE_HSC_LSC
                                                                                                                  GSE45837_WT_VS_GFI1_KO_PDC_UP, GSE45837_WT_VS_GFI1_KO_PDC_UP
                                                                                                                  LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_UP, LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_UP
                                                                                                                  NEBEN_AML_WITH_FLT3_OR_NRAS_DN, NEBEN_AML_WITH_FLT3_OR_NRAS_DN
                                                                                                                  GO_POSITIVE_REGULATION_OF_ORGANELLE_ASSEMBLY, GO_POSITIVE_REGULATION_OF_ORGANELLE_ASSEMBLY
                                                                                                                  GO_MISFOLDED_PROTEIN_BINDING, GO_MISFOLDED_PROTEIN_BINDING
                                                                                                                  REACTOME_STRIATED_MUSCLE_CONTRACTION, REACTOME_STRIATED_MUSCLE_CONTRACTION
                                                                                                                 MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INHIBITORS_DN, MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INHIBITORS_DN
                                                                                                                  JOSEPH_RESPONSE_TO_SODIUM_BUTYRATE_DN, JOSEPH_RESPONSE_TO_SODIUM_BUTYRATE_DN
                                                                                                                 HOLLEMAN_VINCRISTINE_RESISTANCE_B_ALL_UP, HOLLEMAN_VINCRISTINE_RESISTANCE_B_ALL_UP
                                                                                                                 REACTOME_BIOSYNTHESIS_OF_THE_N_GLYCAN_PRECURSOR_DOLICHOL_LIPID_LINKED_OLIGOSACCHARIDE_LLO_AND_TRANSFER_TO_A_NASCENT_PROTEIN, REACTOME_BIOSYNTHESIS_OF_THE_N_GLYCAN_PRECURSOR_DOLICHOL_LIPID_LINKED_OLIGOSACCHARIDE_LLO_AND
                                                                                                                 GO_NEGATIVE_REGULATION_OF_DEFENSE_RESPONSE_TO_VIRUS, GO_NEGATIVE_REGULATION_OF_DEFENSE_RESPONSE_TO_VIRUS
                                                                                                                 GO_MORPHOGENESIS_OF_AN_EPITHELIAL_SHEET, GO_MORPHOGENESIS_OF_AN_EPITHELIAL_SHEET
                                                                                                                 MODULE_480, MODULE_480
                                                                                                                 GSE9946_IMMATURE_VS_PROSTAGLANDINE2_TREATED_MATURE_DC_DN, GSE9946_IMMATURE_VS_PROSTAGLANDINE2_TREATED_MATURE_DC_DN
                                                                                                                 GO_PROTEASOME_BINDING, GO_PROTEASOME_BINDING
                                                                                                                 GO_MANNOSYLTRANSFERASE_ACTIVITY, GO_MANNOSYLTRANSFERASE_ACTIVITY
                                                                                                                 SHIN_B_CELL_LYMPHOMA_CLUSTER_7, SHIN_B_CELL_LYMPHOMA_CLUSTER_7
                                                                                                                 GO_STRIATED_MUSCLE_CELL_DIFFERENTIATION, GO_STRIATED_MUSCLE_CELL_DIFFERENTIATION
                                                                                                                 FXR_IR1_Q6, FXR_IR1_Q6
                                                                                                                 GACAGGG_MIR339, GACAGGG_MIR339
                                                                                                                 GO_OLIGOSACCHARIDE_LIPID_INTERMEDIATE_BIOSYNTHETIC_PROCESS, GO_OLIGOSACCHARIDE_LIPID_INTERMEDIATE_BIOSYNTHETIC_PROCESS
                                                                                                                 AGCGCAG_MIR191, AGCGCAG_MIR191
                                                                                                                 GO_ACTOMYOSIN_STRUCTURE_ORGANIZATION, GO_ACTOMYOSIN_STRUCTURE_ORGANIZATION
                                                                                                                 HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPHOCYTE_DN, HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPHOCYTE_DN
                                                                                                                 GO_ACTIN_FILAMENT, GO_ACTIN_FILAMENT
                                                                                                                 GO CELLULAR RESPONSE TO DEXAMETHASONE STIMULUS, GO CELLULAR RESPONSE TO DEXAMETHASONE STIMULUS
                                                                                                                 WANG_LSD1_TARGETS_UP, WANG_LSD1_TARGETS_UP
                                                                                                                 GO_METALLOEXOPEPTIDASE_ACTIVITY, GO_METALLOEXOPEPTIDASE_ACTIVITY
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GSE17974_0H_VS_48H_IN_VITRO_ACT_CD4_TCELL_DN, GSE17974_0H_VS_48H_IN_VITRO_ACT_CD4_TCELL_DN

GO_PHOSPHATIDYLINOSITOL_3_KINASE_ACTIVITY, GO_PHOSPHATIDYLINOSITOL_3_KINASE_ACTIVITY

GSE22886_NAIVE_CD4_TCELL_VS_NKCELL_DN, GSE22886_NAIVE_CD4_TCELL_VS_NKCELL_DN