```
GSE35685 CD34POS CD10NEG CD62LPOS VS CD34POS CD10POS BONE MARROW UP, GSE35685 CD34POS CD10NEG CD62LPOS VS CD34POS CD10POS BONE MARROW UP
                                                                                                  GSE39864_WT_VS_GATA3_KO_TREG_DN, GSE39864_WT_VS_GATA3_KO_TREG_DN
                                                                                                 GSE339_EX_VIVO_VS_IN_CULTURE_CD4POS_DC_UP, GSE339_EX_VIVO_VS_IN_CULTURE_CD4POS_DC_UP
                                                                                                 GSE33425_CD161_HIGH_VS_INT_CD8_TCELL_UP, GSE33425_CD161_HIGH_VS_INT_CD8_TCELL_UP
                                                                                                 GSE22886_IGG_IGA_MEMORY_BCELL_VS_BM_PLASMA_CELL_UP, GSE22886_IGG_IGA_MEMORY_BCELL_VS_BM_PLASMA_CELL_UP
                                                                                                 GSE43863_TH1_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_DN, GSE43863_TH1_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_DN
                                                                                                 GSE11864_UNTREATED_VS_CSF1_IFNG_PAM3CYS_IN_MAC_UP, GSE11864_UNTREATED_VS_CSF1_IFNG_PAM3CYS_IN_MAC_UP
                                                                                                 GSE9960_GRAM_POS_VS_GRAM_NEG_AND_POS_SEPSIS_PBMC_UP, GSE9960_GRAM_POS_VS_GRAM_NEG_AND_POS_SEPSIS_PBMC_UP
                                                                                                 GSE1925_CTRL_VS_24H_IFNG_STIM_IFNG_PRIMED_MACROPHAGE_DN, GSE1925_CTRL_VS_24H_IFNG_STIM_IFNG_PRIMED_MACROPHAGE_DN
                                                                                                 GSE12392_CD8A_POS_VS_NEG_SPLEEN_IFNB_KO_DC_UP, GSE12392_CD8A_POS_VS_NEG_SPLEEN_IFNB_KO_DC_UP
                                                                                                  GSE20151_CTRL_VS_FUSOBACT_NUCLEATUM_NEUTROPHIL_DN, GSE20151_CTRL_VS_FUSOBACT_NUCLEATUM_NEUTROPHIL_DN
                                                                                                 GSE23568_CTRL_VS_ID3_TRANSDUCED_CD8_TCELL_UP, GSE23568_CTRL_VS_ID3_TRANSDUCED_CD8_TCELL_UP
                                                                                                 GSE17721_0.5H_VS_4H_GARDIQUIMOD_BMDC_UP, GSE17721_0.5H_VS_4H_GARDIQUIMOD_BMDC_UP
                                                                                                 GSE3982_MEMORY_CD4_TCELL_VS_BCELL_DN, GSE3982_MEMORY_CD4_TCELL_VS_BCELL_DN
                                                                                                 GSE24671_CTRL_VS_SENDAI_VIRUS_INFECTED_MOUSE_SPLENOCYTES_DN, GSE24671_CTRL_VS_SENDAI_VIRUS_INFECTED_MOUSE_SPLENOCYTES_DN
                                                                                                 GOLDRATH_NAIVE_VS_MEMORY_CD8_TCELL_UP, GOLDRATH_NAIVE_VS_MEMORY_CD8_TCELL_UP
                                                                                                 GSE22935_UNSTIM_VS_12H_MBOVIS_BCG_STIM_MYD88_KO_MACROPHAGE_DN, GSE22935_UNSTIM_VS_12H_MBOVIS_BCG_STIM_MYD88_KO_MACROPHAGE_DN
                                                                                                 GSE2770_UNTREATED_VS_IL12_TREATED_ACT_CD4_TCELL_48H_UP, GSE2770_UNTREATED_VS_IL12_TREATED_ACT_CD4_TCELL_48H_UP
                                                                                                 GSE15930_STIM_VS_STIM_AND_TRICHOSTATINA_24H_CD8_T_CELL_DN, GSE15930_STIM_VS_STIM_AND_TRICHOSTATINA_24H_CD8_T_CELL_DN
                                                                                                 GSE32164_ALTERNATIVELY_ACT_M2_VS_CMYC_INHIBITED_MACROPHAGE_UP, GSE32164_ALTERNATIVELY_ACT_M2_VS_CMYC_INHIBITED_MACROPHAGE_UP
                                                                                                 GSE43955_1H_VS_60H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP, GSE43955_1H_VS_60H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP
                                                                                                 GSE7509_DC_VS_MONOCYTE_UP, GSE7509_DC_VS_MONOCYTE_UP
                                                                                                 GSE17721_LPS_VS_GARDIQUIMOD_8H_BMDC_DN, GSE17721_LPS_VS_GARDIQUIMOD_8H_BMDC_DN
                                                                                                 GSE43955_1H_VS_42H_ACT_CD4_TCELL_UP, GSE43955_1H_VS_42H_ACT_CD4_TCELL_UP
                                                                                                 GSE17721_POLYIC_VS_GARDIQUIMOD_2H_BMDC_UP, GSE17721_POLYIC_VS_GARDIQUIMOD_2H_BMDC_UP
                                                                                                 GSE43955_1H_VS_20H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP, GSE43955_1H_VS_20H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP
                                                                                                 GSE15930_STIM_VS_STIM_AND_TRICHOSTATINA_72H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_TRICHOSTATINA_72H_CD8_T_CELL_UP
                                                                                                 GSE1925_CTRL_VS_IFNG_PRIMED_MACROPHAGE_24H_IFNG_STIM_DN, GSE1925_CTRL_VS_IFNG_PRIMED_MACROPHAGE_24H_IFNG_STIM_DN
                                                                                                 GSE24142_ADULT_VS_FETAL_EARLY_THYMIC_PROGENITOR_DN, GSE24142_ADULT_VS_FETAL_EARLY_THYMIC_PROGENITOR_DN
                                                                                                 GSE23568_ID3_TRANSDUCED_VS_ID3_KO_CD8_TCELL_DN, GSE23568_ID3_TRANSDUCED_VS_ID3_KO_CD8_TCELL_DN
                                                                                                 GSE339_CD8POS_VS_CD4CD8DN_DC_IN_CULTURE_DN, GSE339_CD8POS_VS_CD4CD8DN_DC_IN_CULTURE_DN
                                                                                                 CUI_DEVELOPING_HEART_C9_B_T_CELL, CUI_DEVELOPING_HEART_C9_B_T_CELL
                                                                                                 GSE43955_1H_VS_20H_ACT_CD4_TCELL_UP, GSE43955_1H_VS_20H_ACT_CD4_TCELL_UP
                                                                                                 GSE1925_CTRL_VS_IFNG_PRIMED_MACROPHAGE_DN, GSE1925_CTRL_VS_IFNG_PRIMED_MACROPHAGE_DN
                                                                                                 GSE5679_CTRL_VS_PPARG_LIGAND_ROSIGLITAZONE_AND_RARA_AGONIST_AM580_TREATED_DC_UP, GSE5679_CTRL_VS_PPARG_LIGAND_ROSIGLITAZONE_AND_RARA_AGONIST_AM580_TRE
                                                                                                 LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP, LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP
                                                                                                 KAECH_DAY15_EFF_VS_MEMORY_CD8_TCELL_UP, KAECH_DAY15_EFF_VS_MEMORY_CD8_TCELL_UP
                                                                                                 GSE339_CD8POS_VS_CD4CD8DN_DC_IN_CULTURE_UP, GSE339_CD8POS_VS_CD4CD8DN_DC_IN_CULTURE_UP
                                                                                                 GSE369_SOCS3_KO_VS_WT_LIVER_POST_IL6_INJECTION_DN, GSE369_SOCS3_KO_VS_WT_LIVER_POST_IL6_INJECTION_DN
                                                                                                 GSE26488_CTRL_VS_PEPTIDE_INJECTION_HDAC7_DELTAP_TG_OT2_THYMOCYTE_DN, GSE26488_CTRL_VS_PEPTIDE_INJECTION_HDAC7_DELTAP_TG_OT2_THYMOCYTE_DN
                                                                                                 STEARMAN LUNG CANCER EARLY VS LATE UP, STEARMAN LUNG CANCER EARLY VS LATE UP
                                                                                                 GSE3039_ALPHABETA_CD8_TCELL_VS_B2_BCELL_UP, GSE3039_ALPHABETA_CD8_TCELL_VS_B2_BCELL_UP
                                                                                                 GSE9650_NAIVE_VS_MEMORY_CD8_TCELL_UP, GSE9650_NAIVE_VS_MEMORY_CD8_TCELL_UP
                                                                                                 GSE8921_UNSTIM_VS_TLR1_2_STIM_MONOCYTE_24H_UP, GSE8921_UNSTIM_VS_TLR1_2_STIM_MONOCYTE_24H_UP
                                                                                                 GSE17721_CTRL_VS_LPS_24H_BMDC_UP, GSE17721_CTRL_VS_LPS_24H_BMDC_UP
                                                                                                 GSE5679_CTRL_VS_PPARG_LIGAND_ROSIGLITAZONE_AND_RARA_AGONIST_AM580_TREATED_DC_DN, GSE5679_CTRL_VS_PPARG_LIGAND_ROSIGLITAZONE_AND_RARA_AGONIST_AM580_TRI
                                                                                                 GSE42088_UNINF_VS_LEISHMANIA_INF_DC_8H_UP, GSE42088_UNINF_VS_LEISHMANIA_INF_DC_8H_UP
                                                                                                 GSE42021_TCONV_PLN_VS_CD24INT_TCONV_THYMUS_UP, GSE42021_TCONV_PLN_VS_CD24INT_TCONV_THYMUS_UP
                                                                                                  GSE33292_WT_VS_TCF1_KO_DN3_THYMOCYTE_UP, GSE33292_WT_VS_TCF1_KO_DN3_THYMOCYTE_UP
                                                                                                 GSE24142_EARLY_THYMIC_PROGENITOR_VS_DN3_THYMOCYTE_DN, GSE24142_EARLY_THYMIC_PROGENITOR_VS_DN3_THYMOCYTE_DN
                                                                                                 GSE17721_POLYIC_VS_PAM3CSK4_6H_BMDC_UP, GSE17721_POLYIC_VS_PAM3CSK4_6H_BMDC_UP
                                                                                                 MIR4649_3P, MIR4649_3P
                                                                                                 GSE37301_PRO_BCELL_VS_CD4_TCELL_UP, GSE37301_PRO_BCELL_VS_CD4_TCELL_UP
                                                                                                 GSE20715_0H_VS_24H_OZONE_TLR4_KO_LUNG_UP, GSE20715_0H_VS_24H_OZONE_TLR4_KO_LUNG_UP
                                                                                                  GSE14415_FOXP3_KO_NATURAL_TREG_VS_TCONV_DN, GSE14415_FOXP3_KO_NATURAL_TREG_VS_TCONV_DN
                                                                                                 GSE23114_WT_VS_SLE2C1_MOUSE_SPLEEN_B1A_BCELL_DN, GSE23114_WT_VS_SLE2C1_MOUSE_SPLEEN_B1A_BCELL_DN
                                                                                                 GSE24574_BCL6_LOW_TFH_VS_NAIVE_CD4_TCELL_UP, GSE24574_BCL6_LOW_TFH_VS_NAIVE_CD4_TCELL_UP
                                                                                                 WP B CELL RECEPTOR SIGNALING PATHWAY, WP B CELL RECEPTOR SIGNALING PATHWAY
                                                                                                 GSE27241_WT_VS_RORGT_KO_TH17_POLARIZED_CD4_TCELL_TREATED_WITH_DIGOXIN_DN, GSE27241_WT_VS_RORGT_KO_TH17_POLARIZED_CD4_TCELL_TREATED_WITH_DIGOXIN_DN
                                                                                                 GSE7831_UNSTIM_VS_CPG_STIM_PDC_4H_DN, GSE7831_UNSTIM_VS_CPG_STIM_PDC_4H_DN
                                                                                                 ZHENG_CORD_BLOOD_C4_PUTATIVE_EARLY_ERYTHROID_COMMITMENT, ZHENG_CORD_BLOOD_C4_PUTATIVE_EARLY_ERYTHROID_COMMITMENT
                                                                                                 GSE26669_CD4_VS_CD8_TCELL_IN_MLR_COSTIM_BLOCK_DN, GSE26669_CD4_VS_CD8_TCELL_IN_MLR_COSTIM_BLOCK_DN
                                                                                                 SEIDEN_ONCOGENESIS_BY_MET, SEIDEN_ONCOGENESIS_BY_MET
                                                                                                 GSE43955_10H_VS_30H_ACT_CD4_TCELL_WITH_TGFB_IL6_DN, GSE43955_10H_VS_30H_ACT_CD4_TCELL_WITH_TGFB_IL6_DN
                                                                                                 GSE21670_TGFB_VS_IL6_TREATED_STAT3_KO_CD4_TCELL_UP, GSE21670_TGFB_VS_IL6_TREATED_STAT3_KO_CD4_TCELL_UP
                                                                                                 GSE28726_NAIVE_VS_ACTIVATED_NKTCELL_UP, GSE28726_NAIVE_VS_ACTIVATED_NKTCELL_UP
                                                                                                 KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS, KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS
                                                                                                 GOBP_PEROXISOME_ORGANIZATION, GOBP_PEROXISOME_ORGANIZATION
                                                                                                 GSE27859_CD11C_INT_F480_HI_MACROPHAGE_VS_CD11C_ING_F480_INT_DC_DN, GSE27859_CD11C_INT_F480_HI_MACROPHAGE_VS_CD11C_ING_F480_INT_DC_DN
                                                                                                 GSE26727_WT_VS_KLF2_KO_LPS_STIM_MACROPHAGE_UP, GSE26727_WT_VS_KLF2_KO_LPS_STIM_MACROPHAGE_UP
                                                                                                 GSE27786_CD8_TCELL_VS_NEUTROPHIL_DN, GSE27786_CD8_TCELL_VS_NEUTROPHIL_DN
                                                                                                 GOBP_PEROXISOMAL_TRANSPORT, GOBP_PEROXISOMAL_TRANSPORT
                                                                                                 GSE1448_CTRL_VS_ANTI_VALPHA2_DP_THYMOCYTE_DN, GSE1448_CTRL_VS_ANTI_VALPHA2_DP_THYMOCYTE_DN
                                                                                                 KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY, KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY
                                                                                                 LEF1_UP.V1_DN, LEF1_UP.V1_DN
                                                                                                 TSENG_IRS1_TARGETS_DN, TSENG_IRS1_TARGETS_DN
                                                                                                 CCCNNNNNAAGWT_UNKNOWN, CCCNNNNNNAAGWT_UNKNOWN
                                                                                                 GSE24574_BCL6_HIGH_TFH_VS_TCONV_CD4_TCELL_UP, GSE24574_BCL6_HIGH_TFH_VS_TCONV_CD4_TCELL_UP
                                                                                                 GOMF_PROTEIN_PHOSPHORYLATED_AMINO_ACID_BINDING, GOMF_PROTEIN_PHOSPHORYLATED_AMINO_ACID_BINDING
                                                                                                 PID_CXCR4_PATHWAY, PID_CXCR4_PATHWAY
                                                                                                 GSE24574_BCL6_HIGH_TFH_VS_NAIVE_CD4_TCELL_UP, GSE24574_BCL6_HIGH_TFH_VS_NAIVE_CD4_TCELL_UP
                                                                                                 GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_52H_DN, GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_52H_DN
                                                                                                 GSE36891_POLYIC_TLR3_VS_PAM_TLR2_STIM_PERITONEAL_MACROPHAGE_UP, GSE36891_POLYIC_TLR3_VS_PAM_TLR2_STIM_PERITONEAL_MACROPHAGE_UP
                                                                                                 KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY, KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY
                                                                                                 GSE28726_NAIVE_VS_ACTIVATED_VA24NEG_NKTCELL_DN, GSE28726_NAIVE_VS_ACTIVATED_VA24NEG_NKTCELL_DN
                                                                                                 KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM, KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM
                                                                                                 GOLDRATH_IMMUNE_MEMORY, GOLDRATH_IMMUNE_MEMORY
                                                                                                 GENTILE_UV_RESPONSE_CLUSTER_D7, GENTILE_UV_RESPONSE_CLUSTER_D7
                                                                                                 GSE37301_CD4_TCELL_VS_GRANULOCYTE_MONOCYTE_PROGENITOR_UP, GSE37301_CD4_TCELL_VS_GRANULOCYTE_MONOCYTE_PROGENITOR_UP
                                                                                                 GSE22501 PERIPHERAL BLOOD VS CORD BLOOD TREG UP, GSE22501 PERIPHERAL BLOOD VS CORD BLOOD TREG UP
                                                                                                 REACTOME_G_ALPHA_12_13_SIGNALLING_EVENTS, REACTOME_G_ALPHA_12_13_SIGNALLING_EVENTS
                                                                                                 YU_MYC_TARGETS_DN, YU_MYC_TARGETS_DN
                                                                                                 KEGG_ERBB_SIGNALING_PATHWAY, KEGG_ERBB_SIGNALING_PATHWAY
                                                                                                 MIR4433A_5P, MIR4433A_5P
                                                                                                 GOBP_LONG_CHAIN_FATTY_ACID_METABOLIC_PROCESS, GOBP_LONG_CHAIN_FATTY_ACID_METABOLIC_PROCESS
                                                                                                 HP_RENAL_HYPOPLASIA, HP_RENAL_HYPOPLASIA
                                                                                                 BURTON_ADIPOGENESIS_9, BURTON_ADIPOGENESIS_9
                                                                                                 GSE339_CD4POS_VS_CD4CD8DN_DC_IN_CULTURE_UP, GSE339_CD4POS_VS_CD4CD8DN_DC_IN_CULTURE_UP
                                                                                                 GSE27786 CD4 TCELL VS NEUTROPHIL DN, GSE27786 CD4 TCELL VS NEUTROPHIL DN
                                                                                                 PID_PI3KCI_PATHWAY, PID_PI3KCI_PATHWAY
                                                                                                 PHONG_TNF_TARGETS_UP, PHONG_TNF_TARGETS_UP
                                                                                                 CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_UP, CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_UP
                                                                                                 WP_RAS_SIGNALING, WP_RAS_SIGNALING
                                                                                                 WP_PDGF_PATHWAY, WP_PDGF_PATHWAY
                                                                                                 GOBP_NEGATIVE_REGULATION_OF_TRANSMEMBRANE_TRANSPORT, GOBP_NEGATIVE_REGULATION_OF_TRANSMEMBRANE_TRANSPORT
                                                                                                 GOMF PHOSPHOTYROSINE RESIDUE BINDING, GOMF PHOSPHOTYROSINE RESIDUE BINDING
                                                                                                 WP_REGULATION_OF_ACTIN_CYTOSKELETON, WP_REGULATION_OF_ACTIN_CYTOSKELETON
                                                                                                 WP_MYOMETRIAL_RELAXATION_AND_CONTRACTION_PATHWAYS, WP_MYOMETRIAL_RELAXATION_AND_CONTRACTION_PATHWAYS
                                                                                                 PID RAC1 REG PATHWAY, PID RAC1 REG PATHWAY
                                                                                                 GSE17721_PAM3CSK4_VS_GADIQUIMOD_1H_BMDC_UP, GSE17721_PAM3CSK4_VS_GADIQUIMOD_1H_BMDC_UP
                                                                                                 VARELA_ZMPSTE24_TARGETS_UP, VARELA_ZMPSTE24_TARGETS_UP
                                                                                                 BUSSLINGER_GASTRIC_X_CELLS, BUSSLINGER_GASTRIC_X_CELLS
                                                                                                 WP_MAPK_CASCADE, WP_MAPK_CASCADE
                                                                                                 VALK_AML_CLUSTER_9, VALK_AML_CLUSTER_9
                                                                                                 HP LOSS OF SPEECH, HP LOSS OF SPEECH
                                                                                                 GSE17721_POLYIC_VS_PAM3CSK4_0.5H_BMDC_UP, GSE17721_POLYIC_VS_PAM3CSK4_0.5H_BMDC_UP
                                                                                                 PID_RHOA_REG_PATHWAY, PID_RHOA_REG_PATHWAY
                                                                                                 SUBTIL_PROGESTIN_TARGETS, SUBTIL_PROGESTIN_TARGETS
                                                                                                 GSE22935_24H_VS_48H_MBOVIS_BCG_STIM_MYD88_KO_MACROPHAGE_DN, GSE22935_24H_VS_48H_MBOVIS_BCG_STIM_MYD88_KO_MACROPHAGE_DN
                                                                                                 WP_NONSMALL_CELL_LUNG_CANCER, WP_NONSMALL_CELL_LUNG_CANCER
                                                                                                 GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREY_DN, GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREY_DN
                                                                                                 HP_ABNORMAL_CIRCULATING_LONG_CHAIN_FATTY_ACID_CONCENTRATION, HP_ABNORMAL_CIRCULATING_LONG_CHAIN_FATTY_ACID_CONCENTRATION
                                                                                                 COMP1_01, COMP1_01
                                                                                                 BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN, BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN
                                                                                                 MORI_PLASMA_CELL_DN, MORI_PLASMA_CELL_DN
                                                                                                 HOFFMANN_SMALL_PRE_BII_TO_IMMATURE_B_LYMPHOCYTE_UP, HOFFMANN_SMALL_PRE_BII_TO_IMMATURE_B_LYMPHOCYTE_UP
                                                                                                 WP_PHOTODYNAMIC_THERAPYINDUCED_NFE2L2_NRF2_SURVIVAL_SIGNALING, WP_PHOTODYNAMIC_THERAPYINDUCED_NFE2L2_NRF2_SURVIVAL_SIGNALING
                                                                                                 MIR5094, MIR5094
                                                                                                 MIR146B_3P, MIR146B_3P
                                                                                                 ZHENG_GLIOBLASTOMA_PLASTICITY_DN, ZHENG_GLIOBLASTOMA_PLASTICITY_DN
                                                                                                 GOMF_ION_CHANNEL_REGULATOR_ACTIVITY, GOMF_ION_CHANNEL_REGULATOR_ACTIVITY
                                                                                                 PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_DN, PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_DN
                                                                                                 SA_B_CELL_RECEPTOR_COMPLEXES, SA_B_CELL_RECEPTOR_COMPLEXES
                                                                                                 MEF2_01, MEF2_01
                                                                                                 ROYLANCE BREAST_CANCER_16Q_COPY_NUMBER_UP, ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_UP
                                                                                                 HP_CELLULITIS, HP_CELLULITIS
                                                                                                 HP_B_LYMPHOCYTOPENIA, HP_B_LYMPHOCYTOPENIA
                                                                                                 REACTOME_SIGNALING_BY_ERYTHROPOIETIN, REACTOME_SIGNALING_BY_ERYTHROPOIETIN
                                                                                                 HP_ABNORMAL_PLATELET_FUNCTION, HP_ABNORMAL_PLATELET_FUNCTION
                                                                                                 BIOCARTA_PDGF_PATHWAY, BIOCARTA_PDGF_PATHWAY
                                                                                                 REACTOME_DAP12_SIGNALING, REACTOME_DAP12_SIGNALING
IN_CULTURE_CD4CD8DN_DC_UP, GSE339_EX_VIVO_VS_IN_CULTURE_CD4CD8DN_DC_UP
                                                                                                 GOBP_PROTEIN_ADP_RIBOSYLATION, GOBP_PROTEIN_ADP_RIBOSYLATION
                                                                                                 HP_VERY_LONG_CHAIN_FATTY_ACID_ACCUMULATION, HP_VERY_LONG_CHAIN_FATTY_ACID_ACCUMULATION
                                                                                                  AR_03, AR_03
                                                                                                 HP_DELUSIONS, HP_DELUSIONS
                                                                                                  GOBP_POSITIVE_REGULATION_OF_DOUBLE_STRAND_BREAK_REPAIR_VIA_NONHOMOLOGOUS_END_JOINING, GOBP_POSITIVE_REGULATION_OF_DOUBLE_STRAND_BREAK_REPAIR_VIA_NOI
                                                                                                  HP_HYPERINTENSITY_OF_CEREBRAL_WHITE_MATTER_ON_MRI, HP_HYPERINTENSITY_OF_CEREBRAL_WHITE_MATTER_ON_MRI
                                                                                                  MIR489_3P, MIR489_3P
                                                                                                 GOMF_ABC_TYPE_TRANSPORTER_ACTIVITY, GOMF_ABC_TYPE_TRANSPORTER_ACTIVITY
                                                                                                 REACTOME_CLASS_I_PEROXISOMAL_MEMBRANE_PROTEIN_IMPORT, REACTOME_CLASS_I_PEROXISOMAL_MEMBRANE_PROTEIN_IMPORT
                                                                                                  GOBP_B_CELL_RECEPTOR_SIGNALING_PATHWAY, GOBP_B_CELL_RECEPTOR_SIGNALING_PATHWAY
                                                                                                  GOBP_RESPONSE_TO_FIBROBLAST_GROWTH_FACTOR, GOBP_RESPONSE_TO_FIBROBLAST_GROWTH_FACTOR
                                                                                                 GOBP_CELL_COMMUNICATION_BY_ELECTRICAL_COUPLING, GOBP_CELL_COMMUNICATION_BY_ELECTRICAL_COUPLING
                                                                                                 HP_MYOSITIS, HP_MYOSITIS
                                                                                                  WATANABE_COLON_CANCER_MSI_VS_MSS_UP, WATANABE_COLON_CANCER_MSI_VS_MSS_UP
                                                                                                 STAMBOLSKY_TARGETS_OF_MUTATED_TP53_DN, STAMBOLSKY_TARGETS_OF_MUTATED_TP53_DN
                                                                                                 GOCC_INTRINSIC_COMPONENT_OF_PEROXISOMAL_MEMBRANE, GOCC_INTRINSIC_COMPONENT_OF_PEROXISOMAL_MEMBRANE
                                                                                                 GOBP_OLEFINIC_COMPOUND_METABOLIC_PROCESS, GOBP_OLEFINIC_COMPOUND_METABOLIC_PROCESS
                                                                                                 BOYAULT_LIVER_CANCER_SUBCLASS_G1_DN, BOYAULT_LIVER_CANCER_SUBCLASS_G1_DN
                                                                                                 BIOCARTA_EGF_PATHWAY, BIOCARTA_EGF_PATHWAY
                                                                                                 KEGG_GNRH_SIGNALING_PATHWAY, KEGG_GNRH_SIGNALING_PATHWAY
                                                                                                 HP_ABNORMALITY_OF_THE_BRAINSTEM_WHITE_MATTER, HP_ABNORMALITY_OF_THE_BRAINSTEM_WHITE_MATTER
                                                                                                 GSE40274_SATB1_VS_FOXP3_AND_SATB1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN, GSE40274_SATB1_VS_FOXP3_AND_SATB1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN
                                                                                                  LIN NPAS4 TARGETS DN, LIN NPAS4 TARGETS DN
                                                                                                 GOBP_POSITIVE_REGULATION_OF_CATION_CHANNEL_ACTIVITY, GOBP_POSITIVE_REGULATION_OF_CATION_CHANNEL_ACTIVITY
                                                                                                 HP_PSORIASIFORM_DERMATITIS, HP_PSORIASIFORM_DERMATITIS
                                                                                                 BIOCARTA_CALCINEURIN_PATHWAY, BIOCARTA_CALCINEURIN_PATHWAY
                                                                                                 GOBP_REGULATION_OF_CELL_COMMUNICATION_BY_ELECTRICAL_COUPLING, GOBP_REGULATION_OF_CELL_COMMUNICATION_BY_ELECTRICAL_COUPLING
                                                                                                 WP_NEURAL_CREST_CELL_MIGRATION_DURING_DEVELOPMENT, WP_NEURAL_CREST_CELL_MIGRATION_DURING_DEVELOPMENT
                                                                                                 GOBP_VERY_LONG_CHAIN_FATTY_ACID_METABOLIC_PROCESS, GOBP_VERY_LONG_CHAIN_FATTY_ACID_METABOLIC_PROCESS
                                                                                                  AUNG_GASTRIC_CANCER, AUNG_GASTRIC_CANCER
                                                                                                 GOBP_UNSATURATED_FATTY_ACID_METABOLIC_PROCESS, GOBP_UNSATURATED_FATTY_ACID_METABOLIC_PROCESS
                                                                                                 JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN, JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN
                                                                                                 TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_DN, TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_DN
                                                                                                 GOBP_NEGATIVE_REGULATION_OF_CELLULAR_SENESCENCE, GOBP_NEGATIVE_REGULATION_OF_CELLULAR_SENESCENCE
                                                                                                 NAKAMURA_ADIPOGENESIS_EARLY_DN, NAKAMURA_ADIPOGENESIS_EARLY_DN
                                                                                                 MIR1262, MIR1262
                                                                                                 HP_SENSORY_ATAXIA, HP_SENSORY_ATAXIA
                                                                                                 ONO_FOXP3_TARGETS_UP, ONO_FOXP3_TARGETS_UP
                                                                                                 WP NEURAL CREST CELL MIGRATION IN CANCER, WP NEURAL CREST CELL MIGRATION IN CANCER
                                                                                                 GOBP_VASCULAR_ASSOCIATED_SMOOTH_MUSCLE_CONTRACTION, GOBP_VASCULAR_ASSOCIATED_SMOOTH_MUSCLE_CONTRACTION
                                                                                                 BIOCARTA PAR1 PATHWAY, BIOCARTA PAR1 PATHWAY
                                                                                                 GOBP_MEMBRANE_DEPOLARIZATION_DURING_ACTION_POTENTIAL, GOBP_MEMBRANE_DEPOLARIZATION_DURING_ACTION_POTENTIAL
                                                                                                 WP_EICOSANOID_METABOLISM_VIA_CYCLO_OXYGENASES_COX, WP_EICOSANOID_METABOLISM_VIA_CYCLO_OXYGENASES_COX
                                                                                                 GOBP_REGULATION_OF_ACTIN_CYTOSKELETON_REORGANIZATION, GOBP_REGULATION_OF_ACTIN_CYTOSKELETON_REORGANIZATION
                                                                                                 GOBP_COLUMNAR_CUBOIDAL_EPITHELIAL_CELL_DIFFERENTIATION, GOBP_COLUMNAR_CUBOIDAL_EPITHELIAL_CELL_DIFFERENTIATION
                                                                                                 FAN_EMBRYONIC_CTX_MICROGLIA_2, FAN_EMBRYONIC_CTX_MICROGLIA_2
                                                                                                 GOMF_NUCLEOSIDE_KINASE_ACTIVITY, GOMF_NUCLEOSIDE_KINASE_ACTIVITY
                                                                                                 FINETTI_BREAST_CANCER_KINOME_GREEN, FINETTI_BREAST_CANCER_KINOME_GREEN
                                                                                                 GOCC_DENDRITIC_SHAFT, GOCC_DENDRITIC_SHAFT
                                                                                                 GOBP_LYMPHOID_PROGENITOR_CELL_DIFFERENTIATION, GOBP_LYMPHOID_PROGENITOR_CELL_DIFFERENTIATION
                                                                                                 REACTOME_RUNX2_REGULATES_GENES_INVOLVED_IN_CELL_MIGRATION, REACTOME_RUNX2_REGULATES_GENES_INVOLVED_IN_CELL_MIGRATION
                                                                                                 HP_DIFFICULTY_RUNNING, HP_DIFFICULTY_RUNNING
                                                                                                 YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_UP, YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_UP
                                                                                                 HP_PERIVENTRICULAR_WHITE_MATTER_HYPERDENSITIES, HP_PERIVENTRICULAR_WHITE_MATTER_HYPERDENSITIES
                                                                                                 AMIT_SERUM_RESPONSE_40_MCF10A, AMIT_SERUM_RESPONSE_40_MCF10A
                                                                                                 BIOCARTA_PLC_PATHWAY, BIOCARTA_PLC_PATHWAY
                                                                                                 GOBP_ALPHA_LINOLENIC_ACID_METABOLIC_PROCESS, GOBP_ALPHA_LINOLENIC_ACID_METABOLIC_PROCESS
                                                                                                 REACTOME_ALPHA_LINOLENIC_OMEGA3_AND_LINOLEIC_OMEGA6_ACID_METABOLISM, REACTOME_ALPHA_LINOLENIC_OMEGA3_AND_LINOLEIC_OMEGA6_ACID_METABOLISM
                                                                                                 REACTOME_NICOTINATE_METABOLISM, REACTOME_NICOTINATE_METABOLISM
                                                                                                 LU_TUMOR_ANGIOGENESIS_UP, LU_TUMOR_ANGIOGENESIS_UP
                                                                                                 WP_ESC_PLURIPOTENCY_PATHWAYS, WP_ESC_PLURIPOTENCY_PATHWAYS
                                                                                                 GOBP_EPITHELIAL_TUBE_BRANCHING_INVOLVED_IN_LUNG_MORPHOGENESIS, GOBP_EPITHELIAL_TUBE_BRANCHING_INVOLVED_IN_LUNG_MORPHOGENESIS
                                                                                                 WP_MAPK_PATHWAY_IN_CONGENITAL_THYROID_CANCER, WP_MAPK_PATHWAY_IN_CONGENITAL_THYROID_CANCER
                                                                                                 WEINMANN_ADAPTATION_TO_HYPOXIA_DN, WEINMANN_ADAPTATION_TO_HYPOXIA_DN
                                                                                                 HP_ABNORMAL_PLATELET_VOLUME, HP_ABNORMAL_PLATELET_VOLUME
                                                                                                 GOBP_REGULATION_OF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_RECEPTOR_SIGNALING_PATHWAY, GOBP_REGULATION_OF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_
                                                                                                 KEGG VEGF SIGNALING PATHWAY, KEGG VEGF SIGNALING PATHWAY
                                                                                                 GOBP_CDC42_PROTEIN_SIGNAL_TRANSDUCTION, GOBP_CDC42_PROTEIN_SIGNAL_TRANSDUCTION
                                                                                                 HP RECURRENT ACUTE RESPIRATORY TRACT INFECTION, HP RECURRENT ACUTE RESPIRATORY TRACT INFECTION
                                                                                                 GOBP_UV_PROTECTION, GOBP_UV_PROTECTION
                                                                                                 HP ACANTHOLYSIS, HP ACANTHOLYSIS
                                                                                                 REACTOME_TRANSCRIPTIONAL_REGULATION_OF_PLURIPOTENT_STEM_CELLS, REACTOME_TRANSCRIPTIONAL_REGULATION_OF_PLURIPOTENT_STEM_CELLS
                                                                                                 PID_TCR_CALCIUM_PATHWAY, PID_TCR_CALCIUM_PATHWAY
                                                                                                 NAKAMURA_ADIPOGENESIS_LATE_DN, NAKAMURA_ADIPOGENESIS_LATE_DN
                                                                                                 MODULE_462, MODULE_462
                                                                                                 NIKOLSKY BREAST CANCER 7P15 AMPLICON, NIKOLSKY BREAST CANCER 7P15 AMPLICON
                                                                                                 REACTOME ERYTHROPOIETIN ACTIVATES PHOSPHOLIPASE C GAMMA PLCG, REACTOME ERYTHROPOIETIN ACTIVATES PHOSPHOLIPASE C GAMMA PLCG
                                                                                                 HP_RENAL_CORTICAL_MICROCYSTS, HP_RENAL_CORTICAL_MICROCYSTS
                                                                                                 GOBP_PURINE_DEOXYRIBONUCLEOSIDE_MONOPHOSPHATE_METABOLIC_PROCESS, GOBP_PURINE_DEOXYRIBONUCLEOSIDE_MONOPHOSPHATE_METABOLIC_PROCESS
                                                                                                 GOBP_POSITIVE_REGULATION_OF_TRANSLATION_IN_RESPONSE_TO_STRESS, GOBP_POSITIVE_REGULATION_OF_TRANSLATION_IN_RESPONSE_TO_STRESS
                                                                                                 GOBP_B_CELL_CHEMOTAXIS, GOBP_B_CELL_CHEMOTAXIS
                                                                                                 WP_CELL_MIGRATION_AND_INVASION_THROUGH_P75NTR, WP_CELL_MIGRATION_AND_INVASION_THROUGH_P75NTR
                                                                                                  GOBP_PROTEIN_MATURATION_BY_IRON_SULFUR_CLUSTER_TRANSFER, GOBP_PROTEIN_MATURATION_BY_IRON_SULFUR_CLUSTER_TRANSFER
                                                                                                 HP_ABNORMAL_PLATELET_AGGREGATION, HP_ABNORMAL_PLATELET_AGGREGATION
                                                                                                 HP_UNDERDEVELOPED_SUPRAORBITAL_RIDGES, HP_UNDERDEVELOPED_SUPRAORBITAL_RIDGES
                                                                                                 GOBP_CARTILAGE_MORPHOGENESIS, GOBP_CARTILAGE_MORPHOGENESIS
                                                                                                 chr16q11, chr16q11
                                                                                                 GOBP POSITIVE REGULATION OF MONOCYTE DIFFERENTIATION, GOBP POSITIVE REGULATION OF MONOCYTE DIFFERENTIATION
                                                                                                 HP_BROAD_PHALANX_OF_THE_TOES, HP_BROAD_PHALANX_OF_THE_TOES
                                                                                                 PID EPHA FWDPATHWAY, PID EPHA FWDPATHWAY
                                                                                                 GOMF_SULFUR_COMPOUND_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_SULFUR_COMPOUND_TRANSMEMBRANE_TRANSPORTER_ACTIVITY
                                                                                                 GOBP_DENDRITE_ARBORIZATION, GOBP_DENDRITE_ARBORIZATION
                                                                                                 HP_MYELOPATHY, HP_MYELOPATHY
                                                                                                 BIOCARTA_EICOSANOID_PATHWAY, BIOCARTA_EICOSANOID_PATHWAY
                                                                                                 GOBP_FATTY_ACID_BETA_OXIDATION_USING_ACYL_COA_OXIDASE, GOBP_FATTY_ACID_BETA_OXIDATION_USING_ACYL_COA_OXIDASE
                                                                                                 GOMF_CALCIUM_CATION_ANTIPORTER_ACTIVITY, GOMF_CALCIUM_CATION_ANTIPORTER_ACTIVITY
                                                                                                 FOURNIER_ACINAR_DEVELOPMENT_EARLY_UP, FOURNIER_ACINAR_DEVELOPMENT_EARLY_UP
                                                                                                 WP_EICOSANOID_SYNTHESIS, WP_EICOSANOID_SYNTHESIS
                                                                                                 HP_VISUAL_AGNOSIA, HP_VISUAL_AGNOSIA
                                                                                                 GOBP_REGULATION_OF_CDC42_PROTEIN_SIGNAL_TRANSDUCTION, GOBP_REGULATION_OF_CDC42_PROTEIN_SIGNAL_TRANSDUCTION
                                                                                                 GOBP_POSITIVE_REGULATION_OF_ACTIN_CYTOSKELETON_REORGANIZATION, GOBP_POSITIVE_REGULATION_OF_ACTIN_CYTOSKELETON_REORGANIZATION
                                                                                                 OSADA_ASCL1_TARGETS_UP, OSADA_ASCL1_TARGETS_UP
                                                                                                 FONTAINE_THYROID_TUMOR_UNCERTAIN_MALIGNANCY_DN, FONTAINE_THYROID_TUMOR_UNCERTAIN_MALIGNANCY_DN
                                                                                                 GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN, GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
                                                                                                 WANG_LSD1_TARGETS_DN, WANG_LSD1_TARGETS_DN
                                                                                                 GOBP_EPITHELIAL_CELL_MATURATION, GOBP_EPITHELIAL_CELL_MATURATION
                                                                                                 GOBP_MEMBRANE_DEPOLARIZATION_DURING_CARDIAC_MUSCLE_CELL_ACTION_POTENTIAL, GOBP_MEMBRANE_DEPOLARIZATION_DURING_CARDIAC_MUSCLE_CELL_ACTION_POTENTIAL
                                                                                                 GOBP_BLOOD_VESSEL_ENDOTHELIAL_CELL_DIFFERENTIATION, GOBP_BLOOD_VESSEL_ENDOTHELIAL_CELL_DIFFERENTIATION
                                                                                                 HP_EEG_WITH_BURST_SUPPRESSION, HP_EEG_WITH_BURST_SUPPRESSION
                                                                                                 GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_1_DN, GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_1_DN
                                                                                                 REACTOME_BETA_OXIDATION_OF_PRISTANOYL_COA, REACTOME_BETA_OXIDATION_OF_PRISTANOYL_COA
                                                                                                 HP_ANGIOEDEMA, HP_ANGIOEDEMA
                                                                                                 REACTOME_NICOTINAMIDE_SALVAGING, REACTOME_NICOTINAMIDE_SALVAGING
                                                                                                 REACTOME_KILLING_MECHANISMS, REACTOME_KILLING_MECHANISMS
                                                                                                 GOBP_LONG_CHAIN_FATTY_ACID_CATABOLIC_PROCESS, GOBP_LONG_CHAIN_FATTY_ACID_CATABOLIC_PROCESS
                                                                                                 MIR4442, MIR4442
                                                                                                 HP_DECREASED_NUMBER_OF_PERIPHERAL_MYELINATED_NERVE_FIBERS, HP_DECREASED_NUMBER_OF_PERIPHERAL_MYELINATED_NERVE_FIBERS
                                                                                                 GOBP_XENOBIOTIC_TRANSPORT_ACROSS_BLOOD_BRAIN_BARRIER, GOBP_XENOBIOTIC_TRANSPORT_ACROSS_BLOOD_BRAIN_BARRIER
                                                                                                 REACTOME_RUNX1_REGULATES_EXPRESSION_OF_COMPONENTS_OF_TIGHT_JUNCTIONS, REACTOME_RUNX1_REGULATES_EXPRESSION_OF_COMPONENTS_OF_TIGHT_JUNCTIONS
                                                                                                 GOBP_POSITIVE_REGULATION_OF_FIBROBLAST_MIGRATION, GOBP_POSITIVE_REGULATION_OF_FIBROBLAST_MIGRATION
                                                                                                 HP_DEVIATION_OF_THE_4TH_FINGER, HP_DEVIATION_OF_THE_4TH_FINGER
                                                                                                 GSE14413_UNSTIM_VS_IFNB_STIM_RAW264_CELLS_DN, GSE14413_UNSTIM_VS_IFNB_STIM_RAW264_CELLS_DN
                                                                                                 GOBP_PURINE_DEOXYRIBONUCLEOTIDE_BIOSYNTHETIC_PROCESS, GOBP_PURINE_DEOXYRIBONUCLEOTIDE_BIOSYNTHETIC_PROCESS
                                                                                                 REACTOME_ABACAVIR_TRANSMEMBRANE_TRANSPORT, REACTOME_ABACAVIR_TRANSMEMBRANE_TRANSPORT
                                                                                                 HP_PHYSICAL_URTICARIA, HP_PHYSICAL_URTICARIA
                                                                                                 GOBP_POSITIVE_REGULATION_OF_CD8_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_CD8_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION
                                                                                                 HP_ABNORMAL_PLATELET_MEMBRANE_PROTEIN_EXPRESSION, HP_ABNORMAL_PLATELET_MEMBRANE_PROTEIN_EXPRESSION
                                                                                                 GOBP_NEURAL_CREST_CELL_MIGRATION_INVOLVED_IN_AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT, GOBP_NEURAL_CREST_CELL_MIGRATION_INVOLVED_IN_AUTONOMIC_NERVOU
                                                                                                 ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_DN, ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_DN
                                                                                                 GOMF_CORECEPTOR_ACTIVITY, GOMF_CORECEPTOR_ACTIVITY
                                                                                                 WP_SEROTONIN_AND_ANXIETYRELATED_EVENTS, WP_SEROTONIN_AND_ANXIETYRELATED_EVENTS
                                                                                                 HP_ABNORMAL_HYPOTHALAMUS_MORPHOLOGY, HP_ABNORMAL_HYPOTHALAMUS_MORPHOLOGY
                                                                                                 HP_CEREBRAL_HAMARTOMA, HP_CEREBRAL_HAMARTOMA
                                                                                                 GOBP_NATURAL_KILLER_CELL_CHEMOTAXIS, GOBP_NATURAL_KILLER_CELL_CHEMOTAXIS
                                                                                                 REACTOME_SODIUM_CALCIUM_EXCHANGERS, REACTOME_SODIUM_CALCIUM_EXCHANGERS
                                                                                                 HP_DERMATOCHALASIS, HP_DERMATOCHALASIS
                                                                                                 GOBP_TRACHEA_CARTILAGE_DEVELOPMENT, GOBP_TRACHEA_CARTILAGE_DEVELOPMENT
                                                                                                 GOBP_ENDOTHELIAL_CELL_FATE_COMMITMENT, GOBP_ENDOTHELIAL_CELL_FATE_COMMITMENT
                                                                                                 WP_IRINOTECAN_PATHWAY, WP_IRINOTECAN_PATHWAY
                                                                                                 GOBP_INTESTINAL_EPITHELIAL_CELL_DIFFERENTIATION, GOBP_INTESTINAL_EPITHELIAL_CELL_DIFFERENTIATION
                                                                                                 GOBP_REGULATION_OF_T_CELL_DIFFERENTIATION_IN_THYMUS, GOBP_REGULATION_OF_T_CELL_DIFFERENTIATION_IN_THYMUS
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