```
GSE3982_EOSINOPHIL_VS_DC_UP, GSE3982_EOSINOPHIL_VS_DC_UP
                                                                         GSE5589_UNSTIM_VS_45MIN_LPS_STIM_MACROPHAGE_UP, GSE5589_UNSTIM_VS_45MIN_LPS_STIM_MACROPHAGE_UP
                                                                         GSE29618_PDC_VS_MDC_UP, GSE29618_PDC_VS_MDC_UP
                                                                         GSE29618_BCELL_VS_PDC_DAY7_FLU_VACCINE_DN, GSE29618_BCELL_VS_PDC_DAY7_FLU_VACCINE_DN
                                                                         GSE2770_TGFB_AND_IL4_ACT_VS_ACT_CD4_TCELL_2H_DN, GSE2770_TGFB_AND_IL4_ACT_VS_ACT_CD4_TCELL_2H_DN
                                                                         GSE3982_MAST_CELL_VS_DC_UP, GSE3982_MAST_CELL_VS_DC_UP
                                                                         GSE3982_EOSINOPHIL_VS_TH1_UP, GSE3982_EOSINOPHIL_VS_TH1_UP
                                                                         MIR4511, MIR4511
                                                                         GSE7548_NAIVE_VS_DAY7_PCC_IMMUNIZATION_CD4_TCELL_DN, GSE7548_NAIVE_VS_DAY7_PCC_IMMUNIZATION_CD4_TCELL_DN
                                                                         GSE3982_EOSINOPHIL_VS_MAC_UP, GSE3982_EOSINOPHIL_VS_MAC_UP
                                                                         MIR4742 5P, MIR4742 5P
                                                                         GSE7764 NKCELL VS SPLENOCYTE UP, GSE7764 NKCELL VS SPLENOCYTE UP
                                                                         AACATTC_MIR4093P, AACATTC_MIR4093P
                                                                         KEGG_ENDOCYTOSIS, KEGG_ENDOCYTOSIS
                                                                         GSE43955_TH0_VS_TGFB_IL6_IL23_TH17_ACT_CD4_TCELL_52H_DN, GSE43955_TH0_VS_TGFB_IL6_IL23_TH17_ACT_CD4_TCELL_52H_DN
                                                                         GSE45739_UNSTIM_VS_ACD3_ACD28_STIM_NRAS_KO_CD4_TCELL_DN, GSE45739_UNSTIM_VS_ACD3_ACD28_STIM_NRAS_KO_CD4_TCELL_DN
                                                                         GSE40274_CTRL_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_UP, GSE40274_CTRL_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_UP
                                                                         KIM_WT1_TARGETS_12HR_UP, KIM_WT1_TARGETS_12HR_UP
                                                                         BIDUS METASTASIS DN, BIDUS METASTASIS DN
                                                                         GSE3982_CENT_MEMORY_CD4_TCELL_VS_NKCELL_DN, GSE3982_CENT_MEMORY_CD4_TCELL_VS_NKCELL_DN
                                                                         GSE27291_6H_VS_7D_STIM_GAMMADELTA_TCELL_DN, GSE27291_6H_VS_7D_STIM_GAMMADELTA_TCELL_DN
                                                                         GSE37301 HEMATOPOIETIC STEM CELL VS PRO BCELL UP, GSE37301 HEMATOPOIETIC STEM CELL VS PRO BCELL UP
                                                                         ATGCAGT MIR217, ATGCAGT MIR217
                                                                         GSE22886_IGA_VS_IGM_MEMORY_BCELL_DN, GSE22886_IGA_VS_IGM_MEMORY_BCELL_DN
                                                                         GSE11961_FOLLICULAR_BCELL_VS_MEMORY_BCELL_DAY40_UP, GSE11961_FOLLICULAR_BCELL_VS_MEMORY_BCELL_DAY40_UP
                                                                         GSE17721 12H VS 24H POLYIC BMDC UP, GSE17721 12H VS 24H POLYIC BMDC UP
                                                                         ACTGTAG_MIR139, ACTGTAG_MIR139
                                                                         GSE26928_NAIVE_VS_EFF_MEMORY_CD4_TCELL_DN, GSE26928_NAIVE_VS_EFF_MEMORY_CD4_TCELL_DN
                                                                         GSE13522_CTRL_VS_T_CRUZI_Y_STRAIN_INF_SKIN_129_MOUSE_DN, GSE13522_CTRL_VS_T_CRUZI_Y_STRAIN_INF_SKIN_129_MOUSE_DN
                                                                         MIR4677_3P, MIR4677_3P
                                                                         PID_CXCR4_PATHWAY, PID_CXCR4_PATHWAY
                                                                         MIR548AO_5P_MIR548AX, MIR548AO_5P_MIR548AX
                                                                         MIR1244, MIR1244
                                                                         MIR3085 3P, MIR3085 3P
                                                                         MIR3064_5P, MIR3064_5P
                                                                         ROSS LEUKEMIA WITH MLL FUSIONS, ROSS LEUKEMIA WITH MLL FUSIONS
                                                                         GSE26928_EFF_MEM_VS_CENTR_MEM_CD4_TCELL_UP, GSE26928_EFF_MEM_VS_CENTR_MEM_CD4_TCELL_UP
                                                                         GSE17721 CTRL VS GARDIQUIMOD 1H BMDC DN, GSE17721 CTRL VS GARDIQUIMOD 1H BMDC DN
                                                                         MIR129_1_3P_MIR129_2_3P, MIR129_1_3P_MIR129_2_3P
                                                                         GOMF_PROTEASE_BINDING, GOMF_PROTEASE_BINDING
                                                                         KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY, KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY
                                                                         ZAK_PBMC_MRKAD5_HIV_1_GAG_POL_NEF_AGE_20_50YO_1DY_ADDNL_EXON_LVL_UP, ZAK_PBMC_MRKAD5_HIV_1_GAG_POL_NEF_AGE_20_50YO_1DY_ADDNL_EXON_LVL_UP
                                                                         MIR217_3P, MIR217_3P
                                                                         GNF2_INPP5D, GNF2_INPP5D
                                                                         GSE45365_NK_CELL_VS_CD8_TCELL_DN, GSE45365_NK_CELL_VS_CD8_TCELL_DN
                                                                         MIR4720_3P, MIR4720_3P
                                                                         GOBP_RESPONSE_TO_BMP, GOBP_RESPONSE_TO_BMP
                                                                         GSE45837 WT VS GFI1 KO PDC UP, GSE45837 WT VS GFI1 KO PDC UP
                                                                         MIR4739, MIR4739
                                                                         GOBP_EXTRACELLULAR_MATRIX_DISASSEMBLY, GOBP_EXTRACELLULAR_MATRIX_DISASSEMBLY
                                                                         GSE34156_UNTREATED_VS_24H_TLR1_TLR2_LIGAND_TREATED_MONOCYTE_UP, GSE34156_UNTREATED_VS_24H_TLR1_TLR2_LIGAND_TREATED_MONOCYTE_UP
                                                                         MIR1321, MIR1321
                                                                         MIR4756_5P, MIR4756_5P
                                                                         GSE29618 PRE VS DAY7 POST TIV FLU VACCINE MONOCYTE UP, GSE29618 PRE VS DAY7 POST TIV FLU VACCINE MONOCYTE UP
                                                                         VERRECCHIA_DELAYED_RESPONSE_TO_TGFB1, VERRECCHIA_DELAYED_RESPONSE_TO_TGFB1
                                                                         MIR8069, MIR8069
                                                                         SASAI_RESISTANCE_TO_NEOPLASTIC_TRANSFROMATION, SASAI_RESISTANCE_TO_NEOPLASTIC_TRANSFROMATION
                                                                         MIR4646_3P, MIR4646_3P
                                                                         GSE23321_CENTRAL_MEMORY_VS_NAIVE_CD8_TCELL_DN, GSE23321_CENTRAL_MEMORY_VS_NAIVE_CD8_TCELL_DN
                                                                         MIR1265, MIR1265
                                                                         GOBP_NEGATIVE_REGULATION_OF_COLD_INDUCED_THERMOGENESIS, GOBP_NEGATIVE_REGULATION_OF_COLD_INDUCED_THERMOGENESIS
                                                                         PID_WNT_NONCANONICAL_PATHWAY, PID_WNT_NONCANONICAL_PATHWAY
                                                                         HP_THYROIDITIS, HP_THYROIDITIS
                                                                         GOBP_REGULATION_OF_BMP_SIGNALING_PATHWAY, GOBP_REGULATION_OF_BMP_SIGNALING_PATHWAY
LUND_SILENCED_BY_METHYLATION, LUND_SILENCED_BY_METHYLATION
                                                                         GOBP_LIPID_TRANSLOCATION, GOBP_LIPID_TRANSLOCATION
                                                                         REACTOME_DAP12_SIGNALING, REACTOME_DAP12_SIGNALING
                                                                         GOMF_INTRAMEMBRANE_LIPID_TRANSPORTER_ACTIVITY, GOMF_INTRAMEMBRANE_LIPID_TRANSPORTER_ACTIVITY
                                                                         HP_ORTHOSTATIC_HYPOTENSION, HP_ORTHOSTATIC_HYPOTENSION
                                                                         GOBP_RENAL_SYSTEM_VASCULATURE_DEVELOPMENT, GOBP_RENAL_SYSTEM_VASCULATURE_DEVELOPMENT
                                                                         REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS, REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS
                                                                         REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS_VIA_7ALPHA_HYDROXYCHOLESTEROL, REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS_VIA_7ALPHA_HYDROXYCHOLESTEROL
                                                                         HOFT_PBMC_TICE_BCG_RBCG_AG85A_AG85B_AGE_18_40YO_CORRELATED_WITH_WHOLE_BLOOD_BACTERICIDAL_ACTIVITY_NEGATIVE, HOFT_PBMC_TICE_BCG_RBCG_AG85A_AG85B_AGE_18_40YO_CORRELATED_WITH_WHOLE_BLOOD_BACTERICID
                                                                         WONG_ENDMETRIUM_CANCER_UP, WONG_ENDMETRIUM_CANCER_UP
                                                                         GOBP_REGULATION_OF_EXTRACELLULAR_MATRIX_ORGANIZATION, GOBP_REGULATION_OF_EXTRACELLULAR_MATRIX_ORGANIZATION
                                                                         WP_NEURAL_CREST_DIFFERENTIATION, WP_NEURAL_CREST_DIFFERENTIATION
                                                                         SILIGAN_BOUND_BY_EWS_FLT1_FUSION, SILIGAN_BOUND_BY_EWS_FLT1_FUSION
                                                                         KIM ALL DISORDERS OLIGODENDROCYTE NUMBER CORR DN, KIM ALL DISORDERS OLIGODENDROCYTE NUMBER CORR DN
                                                                         GOMF_ATPASE_COUPLED_INTRAMEMBRANE_LIPID_TRANSPORTER_ACTIVITY, GOMF_ATPASE_COUPLED_INTRAMEMBRANE_LIPID_TRANSPORTER_ACTIVITY
                                                                         GOBP_POLYSACCHARIDE_CATABOLIC_PROCESS, GOBP_POLYSACCHARIDE_CATABOLIC_PROCESS
                                                                         GOBP_POSITIVE_REGULATION_OF_EXTRACELLULAR_MATRIX_ORGANIZATION, GOBP_POSITIVE_REGULATION_OF_EXTRACELLULAR_MATRIX_ORGANIZATION
                                                                         PID_INTEGRIN_A9B1_PATHWAY, PID_INTEGRIN_A9B1_PATHWAY
                                                                         GOBP_TRANSPOSITION, GOBP_TRANSPOSITION
                                                                         DURANTE_ADULT_OLFACTORY_NEUROEPITHELIUM_BOWMANS_GLAND, DURANTE_ADULT_OLFACTORY_NEUROEPITHELIUM_BOWMANS_GLAND
                                                                         GOBP_REGULATION_OF_TRANSPOSITION, GOBP_REGULATION_OF_TRANSPOSITION
                                                                          I_CARCINOGENESIS_BY_KRAS_AND_STK11_DN, JI_CARCINOGENESIS_BY_KRAS_AND_STK11_DN
                                                                         GOBP_SEMI_LUNAR_VALVE_DEVELOPMENT, GOBP_SEMI_LUNAR_VALVE_DEVELOPMENT
                                                                         GOBP_ACTIN_FILAMENT_REORGANIZATION, GOBP_ACTIN_FILAMENT_REORGANIZATION
                                                                         BUSSLINGER_DUODENAL_BCHE_CELLS, BUSSLINGER_DUODENAL_BCHE_CELLS
                                                                         GOMF_INSULIN_LIKE_GROWTH_FACTOR_BINDING, GOMF_INSULIN_LIKE_GROWTH_FACTOR_BINDING
                                                                         HP_PULMONARY_ARTERY_ATRESIA, HP_PULMONARY_ARTERY_ATRESIA
                                                                         GOBP_REGULATION_OF_PLASMA_MEMBRANE_ORGANIZATION, GOBP_REGULATION_OF_PLASMA_MEMBRANE_ORGANIZATION
                                                                         GOBP_PULMONARY_VALVE_DEVELOPMENT, GOBP_PULMONARY_VALVE_DEVELOPMENT
                                                                         GOBP_NATURAL_KILLER_CELL_ACTIVATION, GOBP_NATURAL_KILLER_CELL_ACTIVATION
                                                                         GOBP_REGULATION_OF_NON_CANONICAL_WNT_SIGNALING_PATHWAY, GOBP_REGULATION_OF_NON_CANONICAL_WNT_SIGNALING_PATHWAY
                                                                         GOBP_VENTRICULAR_TRABECULA_MYOCARDIUM_MORPHOGENESIS, GOBP_VENTRICULAR_TRABECULA_MYOCARDIUM_MORPHOGENESIS
                                                                         GOMF_NADPLUS_NUCLEOSIDASE_ACTIVITY, GOMF_NADPLUS_NUCLEOSIDASE_ACTIVITY
                                                                         REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS_VIA_27_HYDROXYCHOLESTEROL, REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS_VIA_27_HYDROXYCHOLESTEROL
                                                                         GOBP RESPONSE TO INTERLEUKIN 18, GOBP RESPONSE TO INTERLEUKIN 18
                                                                         GOBP_POSITIVE_REGULATION_OF_NON_CANONICAL_WNT_SIGNALING_PATHWAY, GOBP_POSITIVE_REGULATION_OF_NON_CANONICAL_WNT_SIGNALING_PATHWAY
                                                                         GOBP_PERICARDIUM_DEVELOPMENT, GOBP_PERICARDIUM_DEVELOPMENT
                                                                         GOMF_FLIPPASE_ACTIVITY, GOMF_FLIPPASE_ACTIVITY
                                                                         GOBP_CARDIAC_MUSCLE_TISSUE_MORPHOGENESIS, GOBP_CARDIAC_MUSCLE_TISSUE_MORPHOGENESIS
                                                                         GOBP_RENAL_ABSORPTION, GOBP_RENAL_ABSORPTION
                                                                         GOBP REGULATION OF SKELETAL MUSCLE CELL PROLIFERATION, GOBP REGULATION OF SKELETAL MUSCLE CELL PROLIFERATION
                                                                         MODULE_416, MODULE_416
                                                                         chr17q24, chr17q24
                                                                         GOMF_SPHINGOLIPID_TRANSPORTER_ACTIVITY, GOMF_SPHINGOLIPID_TRANSPORTER_ACTIVITY
                                                                         GOBP_BASEMENT_MEMBRANE_ASSEMBLY, GOBP_BASEMENT_MEMBRANE_ASSEMBLY
                                                                         GOBP_REGULATION_OF_GASTRULATION, GOBP_REGULATION_OF_GASTRULATION
                                                                         GOBP_POSITIVE_REGULATION_OF_T_CELL_APOPTOTIC_PROCESS, GOBP_POSITIVE_REGULATION_OF_T_CELL_APOPTOTIC_PROCESS
                                                                         GOBP T HELPER 1 CELL CYTOKINE PRODUCTION, GOBP T HELPER 1 CELL CYTOKINE PRODUCTION
                                                                         GOMF_GLYCOGEN_BINDING, GOMF_GLYCOGEN_BINDING
                                                                         GOMF TRANSMEMBRANE RECEPTOR PROTEIN PHOSPHATASE ACTIVITY, GOMF TRANSMEMBRANE RECEPTOR PROTEIN PHOSPHATASE ACTIVITY
                                                                         MODULE_190, MODULE_190
                                                                         GOMF_SODIUM_INDEPENDENT_ORGANIC_ANION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_SODIUM_INDEPENDENT_ORGANIC_ANION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY
                                                                         GOBP_WALKING_BEHAVIOR, GOBP_WALKING_BEHAVIOR
                                                                         GOBP_TERPENOID_CATABOLIC_PROCESS, GOBP_TERPENOID_CATABOLIC_PROCESS
                                                                         GOBP_MESANGIAL_CELL_DEVELOPMENT, GOBP_MESANGIAL_CELL_DEVELOPMENT
                                                                         GOBP_EMBRYONIC_DIGESTIVE_TRACT_MORPHOGENESIS, GOBP_EMBRYONIC_DIGESTIVE_TRACT_MORPHOGENESIS
                                                                         GOBP_REGULATION_OF_ARTERY_MORPHOGENESIS, GOBP_REGULATION_OF_ARTERY_MORPHOGENESIS
                                                                         MODULE_474, MODULE_474
                                                                         GOBP_GLOMERULAR_MESANGIAL_CELL_DEVELOPMENT, GOBP_GLOMERULAR_MESANGIAL_CELL_DEVELOPMENT
                                                                         GOMF_KETOSTEROID_MONOOXYGENASE_ACTIVITY, GOMF_KETOSTEROID_MONOOXYGENASE_ACTIVITY
                                                                         GOBP_REGULATION_OF_GLUTAMATE_RECEPTOR_CLUSTERING, GOBP_REGULATION_OF_GLUTAMATE_RECEPTOR_CLUSTERING
                                                                         GOBP_POSITIVE_REGULATION_OF_CHONDROCYTE_PROLIFERATION, GOBP_POSITIVE_REGULATION_OF_CHONDROCYTE_PROLIFERATION
                                                                         REACTOME_INTERLEUKIN_18_SIGNALING, REACTOME_INTERLEUKIN_18_SIGNALING
                                                                         HP_UNCONJUGATED_HYPERBILIRUBINEMIA, HP_UNCONJUGATED_HYPERBILIRUBINEMIA
                                                                         GOMF_GLUCOSE_SODIUM_SYMPORTER_ACTIVITY, GOMF_GLUCOSE_SODIUM_SYMPORTER_ACTIVITY
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GSE22601_CD4_SINGLE_POSITIVE_VS_CD8_SINGLE_POSITIVE_THYMOCYTE_DN, GSE22601_CD4_SINGLE_POSITIVE_VS_CD8_SINGLE_POSITIVE_THYMOCYTE_DN

GSE22886 NAIVE BCELL VS BM PLASMA CELL UP, GSE22886 NAIVE BCELL VS BM PLASMA CELL UP