```
GSE22103_LPS_VS_GMCSF_AND_IFNG_STIM_NEUTROPHIL_UP, GSE22103_LPS_VS_GMCSF_AND_IFNG_STIM_NEUTROPHIL_UP
                                                                                                                                  GSE32986_GMCSF_VS_GMCSF_AND_CURDLAN_LOWDOSE_STIM_DC_UP, GSE32986_GMCSF_VS_GMCSF_AND_CURDLAN_LOWDOSE_STIM_DC_UP
                                                                                                                                  GSE37301_LYMPHOID_PRIMED_MPP_VS_GRAN_MONO_PROGENITOR_DN, GSE37301_LYMPHOID_PRIMED_MPP_VS_GRAN_MONO_PROGENITOR_DN
                                                                                                                                  GSE17974_0H_VS_2H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_2H_IN_VITRO_ACT_CD4_TCELL_UP
                                                                                                                                  GSE22140_GERMFREE_VS_SPF_ARTHRITIC_MOUSE_CD4_TCELL_DN, GSE22140_GERMFREE_VS_SPF_ARTHRITIC_MOUSE_CD4_TCELL_DN
                                                                                                                                  GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_72H_CD4_TCELL_DN, GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_72H_CD4_TCELL_DN
                                                                                                                                  GSE27786_LSK_VS_NKCELL_UP, GSE27786_LSK_VS_NKCELL_UP
                                                                                                                                 GSE41867_LCMV_ARMSTRONG_VS_CLONE13_DAY8_EFFECTOR_CD8_TCELL_UP, GSE41867_LCMV_ARMSTRONG_VS_CLONE13_DAY8_EFFECTOR_CD8_TCELL_UP
                                                                                                                                  GSE22196_HEALTHY_VS_OBESE_MOUSE_SKIN_GAMMADELTA_TCELL_UP, GSE22196_HEALTHY_VS_OBESE_MOUSE_SKIN_GAMMADELTA_TCELL_UP
                                                                                                                                  GSE23321 CENTRAL_MEMORY_VS_NAIVE_CD8_TCELL_UP, GSE23321_CENTRAL_MEMORY_VS_NAIVE_CD8_TCELL_UP
                                                                                                                                  GSE22601 IMMATURE CD4 SINGLE POSITIVE VS CD8 SINGLE POSITIVE THYMOCYTE UP, GSE22601 IMMATURE CD4 SINGLE POSITIVE VS CD8 SINGLE POSITIVE THYMOCYTE UP
                                                                                                                                  GSE7831_UNSTIM_VS_INFLUENZA_STIM_PDC_1H_UP, GSE7831_UNSTIM_VS_INFLUENZA_STIM_PDC_1H_UP
                                                                                                                                  GSE3982_DC_VS_CENT_MEMORY_CD4_TCELL_UP, GSE3982_DC_VS_CENT_MEMORY_CD4_TCELL_UP
                                                                                                                                  GSE26030 UNSTIM VS RESTIM TH1 DAY5 POST POLARIZATION DN, GSE26030 UNSTIM VS RESTIM TH1 DAY5 POST POLARIZATION DN
                                                                                                                                  GSE29617_CTRL_VS_DAY7_TIV_FLU_VACCINE_PBMC_2008_DN, GSE29617_CTRL_VS_DAY7_TIV_FLU_VACCINE_PBMC_2008_DN
                                                                                                                                 GSE1432_1H_VS_6H_IFNG_MICROGLIA_UP, GSE1432_1H_VS_6H_IFNG_MICROGLIA_UP
                                                                                                                                  CHUNG_BLISTER_CYTOTOXICITY_UP, CHUNG_BLISTER_CYTOTOXICITY_UP
                                                                                                                                  GSE24026_PD1_LIGATION_VS_CTRL_IN_ACT_TCELL_LINE_UP, GSE24026_PD1_LIGATION_VS_CTRL_IN_ACT_TCELL_LINE_UP
                                                                                                                                 GSE17974_2.5H_VS_72H_IL4_AND_ANTI_IL12_ACT_CD4_TCELL_DN, GSE17974_2.5H_VS_72H_IL4_AND_ANTI_IL12_ACT_CD4_TCELL_DN
                                                                                                                                 GSE12845_IGD_POS_BLOOD_VS_NAIVE_TONSIL_BCELL_UP, GSE12845_IGD_POS_BLOOD_VS_NAIVE_TONSIL_BCELL_UP
                                                                                                                                 GSE13522_WT_VS_IFNAR_KO_SKIN_UP, GSE13522_WT_VS_IFNAR_KO_SKIN_UP
                                                                                                                                 GSE5542_UNTREATED_VS_IFNA_TREATED_EPITHELIAL_CELLS_6H_DN, GSE5542_UNTREATED_VS_IFNA_TREATED_EPITHELIAL_CELLS_6H_DN
                                                                                                                                  GSE46606_IRF4_KO_VS_WT_CD40L_IL2_IL5_1DAY_STIMULATED_BCELL_UP, GSE46606_IRF4_KO_VS_WT_CD40L_IL2_IL5_1DAY_STIMULATED_BCELL_UP
                                                                                                                                  GSE2128_CTRL_VS_MIMETOPE_NEGATIVE_SELECTION_DP_THYMOCYTE_NOD_UP, GSE2128_CTRL_VS_MIMETOPE_NEGATIVE_SELECTION_DP_THYMOCYTE_NOD_UP
                                                                                                                                  GSE3982_EOSINOPHIL_VS_EFF_MEMORY_CD4_TCELL_DN, GSE3982_EOSINOPHIL_VS_EFF_MEMORY_CD4_TCELL_DN
                                                                                                                                  GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_2H_CD4_TCELL_UP, GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_2H_CD4_TCELL_UP
                                                                                                                                  GSE22611_UNSTIM_VS_6H_MDP_STIM_MUTANT_NOD2_TRANSDUCED_HEK293T_CELL_UP, GSE22611_UNSTIM_VS_6H_MDP_STIM_MUTANT_NOD2_TRANSDUCED_HEK293T_CELL_UP
                                                                                                                                 GSE17721_0.5H_VS_24H_LPS_BMDC_DN, GSE17721_0.5H_VS_24H_LPS_BMDC_DN
                                                                                                                                 GSE26928_NAIVE_VS_CENT_MEMORY_CD4_TCELL_DN, GSE26928_NAIVE_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                                                                 GSE2585_THYMIC_MACROPHAGE_VS_MTEC_UP, GSE2585_THYMIC_MACROPHAGE_VS_MTEC_UP
                                                                                                                                 GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_1H_CD4_TCELL_UP, GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_1H_CD4_TCELL_UP
                                                                                                                                 GSE17721_LPS_VS_POLYIC_12H_BMDC_DN, GSE17721_LPS_VS_POLYIC_12H_BMDC_DN
                                                                                                                                 MENSE_HYPOXIA_UP, MENSE_HYPOXIA_UP
                                                                                                                                 GSE44649_WT_VS_MIR155_KO_ACTIVATED_CD8_TCELL_DN, GSE44649_WT_VS_MIR155_KO_ACTIVATED_CD8_TCELL_DN
                                                                                                                                 E2F3_UP.V1_UP, E2F3_UP.V1_UP
                                                                                                                                 GSE17974_0H_VS_4H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_4H_IN_VITRO_ACT_CD4_TCELL_UP
                                                                                                                                 GSE360_CTRL_VS_B_MALAYI_LOW_DOSE_DC_UP, GSE360_CTRL_VS_B_MALAYI_LOW_DOSE_DC_UP
                                                                                                                                 GSE29617_DAY3_VS_DAY7_TIV_FLU_VACCINE_PBMC_2008_UP, GSE29617_DAY3_VS_DAY7_TIV_FLU_VACCINE_PBMC_2008_UP
                                                                                                                                 GSE42021_TREG_PLN_VS_CD24LO_TREG_THYMUS_DN, GSE42021_TREG_PLN_VS_CD24LO_TREG_THYMUS_DN
                                                                                                                                 GSE22601_DOUBLE_NEGATIVE_VS_DOUBLE_POSITIVE_THYMOCYTE_UP, GSE22601_DOUBLE_NEGATIVE_VS_DOUBLE_POSITIVE_THYMOCYTE_UP
                                                                                                                                 GSE24574_BCL6_LOW_TFH_VS_NAIVE_CD4_TCELL_DN, GSE24574_BCL6_LOW_TFH_VS_NAIVE_CD4_TCELL_DN
                                                                                                                                 HP_PREMATURELY_AGED_APPEARANCE, HP_PREMATURELY_AGED_APPEARANCE
                                                                                                                                 HALLMARK HYPOXIA, HALLMARK HYPOXIA
                                                                                                                                 GSE9509_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_30MIN_UP, GSE9509_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_30MIN_UP
                                                                                                                                 GSE17721_CTRL_VS_GARDIQUIMOD_1H_BMDC_DN, GSE17721_CTRL_VS_GARDIOUIMOD_1H_BMDC_DN
                                                                                                                                 MIR4794, MIR4794
                                                                                                                                 MANNE COVID19 ICU VS HEALTHY DONOR PLATELETS UP, MANNE COVID19 ICU VS HEALTHY DONOR PLATELETS UP
                                                                                                                                 GOBP_POSITIVE_REGULATION_OF_I_KAPPAB_KINASE_NF_KAPPAB_SIGNALING, GOBP_POSITIVE_REGULATION_OF_I_KAPPAB_KINASE_NF_KAPPAB_SIGNALING
                                                                                                                                 GSE17974 OH VS 1H IN VITRO ACT CD4 TCELL UP, GSE17974 OH VS 1H IN VITRO ACT CD4 TCELL UP
                                                                                                                                 GOCC_TERTIARY_GRANULE_MEMBRANE, GOCC_TERTIARY_GRANULE_MEMBRANE
                                                                                                                                 GSE29949_MICROGLIA_BRAIN_VS_CD8_POS_DC_SPLEEN_DN, GSE29949_MICROGLIA_BRAIN_VS_CD8_POS_DC_SPLEEN_DN
                                                                                                                                 SERVITJA ISLET HNF1A TARGETS UP, SERVITJA ISLET HNF1A TARGETS UP
                                                                                                                                 GSE37605_C57BL6_VS_NOD_FOXP3_IRES_GFP_TCONV_UP, GSE37605_C57BL6_VS_NOD_FOXP3_IRES_GFP_TCONV_UP
                                                                                                                                 HP_SKIN_ULCER, HP_SKIN_ULCER
                                                                                                                                 GSE3982_EFF_MEMORY_VS_CENT_MEMORY_CD4_TCELL_UP, GSE3982_EFF_MEMORY_VS_CENT_MEMORY_CD4_TCELL_UP
                                                                                                                                 HP_NEOPLASM_OF_THE_SKIN, HP_NEOPLASM_OF_THE_SKIN
                                                                                                                                 ZHAN_V2_LATE_DIFFERENTIATION_GENES, ZHAN_V2_LATE_DIFFERENTIATION_GENES
                                                                                                                                 TBK1.DN.48HRS_DN, TBK1.DN.48HRS_DN
                                                                                                                                 GOBP_POSITIVE_REGULATION_OF_APOPTOTIC_SIGNALING_PATHWAY, GOBP_POSITIVE_REGULATION_OF_APOPTOTIC_SIGNALING_PATHWAY
                                                                                                                                 GSE22935_UNSTIM_VS_24H_MBOVIS_BCG_STIM_MACROPHAGE_UP, GSE22935_UNSTIM_VS_24H_MBOVIS_BCG_STIM_MACROPHAGE_UP
                                                                                                                                 REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INITIATION_FROM_TYPE_3_PROMOTER, REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INITIATION_FROM_TYPE_3_PROMOTER
                                                                                                                                 HP_HYPERMELANOTIC_MACULE, HP_HYPERMELANOTIC_MACULE
                                                                                                                                 GSE3720_UNSTIM_VS_LPS_STIM_VD1_GAMMADELTA_TCELL_DN, GSE3720_UNSTIM_VS_LPS_STIM_VD1_GAMMADELTA_TCELL_DN
                                                                                                                                 GSE21927_SPLEEN_VS_4T1_TUMOR_MONOCYTE_BALBC_UP, GSE21927_SPLEEN_VS_4T1_TUMOR_MONOCYTE_BALBC_UP
                                                                                                                                 HP_ABNORMAL_MACULAR_MORPHOLOGY, HP_ABNORMAL_MACULAR_MORPHOLOGY
                                                                                                                                 HEIDENBLAD_AMPLICON_8Q24_UP, HEIDENBLAD_AMPLICON_8Q24_UP
                                                                                                                                 FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP, FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP
                                                                                                                                 SHAFFER_IRF4_TARGETS_IN_ACTIVATED_DENDRITIC_CELL, SHAFFER_IRF4_TARGETS_IN_ACTIVATED_DENDRITIC_CELL
                                                                                                                                 GOCC_FICOLIN_1_RICH_GRANULE_MEMBRANE, GOCC_FICOLIN_1_RICH_GRANULE_MEMBRANE
                                                                                                                                 ROSS_AML_WITH_CBFB_MYH11_FUSION, ROSS_AML_WITH_CBFB_MYH11_FUSION
                                                                                                                                 GSE22886 TH1_VS_TH2_12H_ACT_DN, GSE22886 TH1_VS_TH2_12H_ACT_DN
                                                                                                                                 LEONARD HYPOXIA, LEONARD HYPOXIA
                                                                                                                                 HP_MOTOR_NEURON_ATROPHY, HP_MOTOR_NEURON_ATROPHY
                                                                                                                                 REACTOME_DEGRADATION_OF_CYSTEINE_AND_HOMOCYSTEINE, REACTOME_DEGRADATION_OF_CYSTEINE_AND_HOMOCYSTEINE
                                                                                                                                 MIR4439, MIR4439
                                                                                                                                 GOBP_NEGATIVE_REGULATION_OF_DNA_RECOMBINATION, GOBP_NEGATIVE_REGULATION_OF_DNA_RECOMBINATION
                                                                                                                                 LINDSTEDT_DENDRITIC_CELL_MATURATION_C, LINDSTEDT_DENDRITIC_CELL_MATURATION_C
                                                                                                                                 HP_BLEPHARITIS, HP_BLEPHARITIS
                                                                                                                                 MIR3136 5P, MIR3136 5P
                                                                                                                                 MORI_IMMATURE_B_LYMPHOCYTE_UP, MORI_IMMATURE_B_LYMPHOCYTE_UP
                                                                                                                                 YAP1_UP, YAP1_UP
                                                                                                                                 MSX1_01, MSX1_01
                                                                                                                                 HP_ABNORMALITY_OF_HAIR_PIGMENTATION, HP_ABNORMALITY_OF_HAIR_PIGMENTATION
                                                                                                                                 GSE32901_TH1_VS_TH17_NEG_CD4_TCELL_DN, GSE32901_TH1_VS_TH17_NEG_CD4_TCELL_DN
                                                                                                                                 GOBP_REGULATION_OF_PHAGOCYTOSIS, GOBP_REGULATION_OF_PHAGOCYTOSIS
                                                                                                                                 HP_SQUAMOUS_CELL_CARCINOMA, HP_SQUAMOUS_CELL_CARCINOMA
                                                                                                                                 MIR3975, MIR3975
                                                                                                                                 HP_CUTIS_MARMORATA, HP_CUTIS_MARMORATA
                                                                                                                                 GOMF_PHOSPHATIDYLSERINE_BINDING, GOMF_PHOSPHATIDYLSERINE_BINDING
                                                                                                                                 WP_NUCLEOTIDEBINDING_OLIGOMERIZATION_DOMAIN_NOD_PATHWAY, WP_NUCLEOTIDEBINDING_OLIGOMERIZATION_DOMAIN_NOD_PATHWAY
                                                                                                                                 WP_TYROBP_CAUSAL_NETWORK, WP_TYROBP_CAUSAL_NETWORK
                                                                                                                                 WEIGEL_OXIDATIVE_STRESS_RESPONSE, WEIGEL_OXIDATIVE_STRESS_RESPONSE
                                                                                                                                 HP_PROLONGED_NEONATAL_JAUNDICE, HP_PROLONGED_NEONATAL_JAUNDICE
                                                                                                                                 WP_SMALL_CELL_LUNG_CANCER, WP_SMALL_CELL_LUNG_CANCER
                                                                                                                                 GSE10422_WT_VS_BAFF_TRANSGENIC_LN_BCELL_DN, GSE10422_WT_VS_BAFF_TRANSGENIC_LN_BCELL_DN
                                                                                                                                 GNF2_FGR, GNF2_FGR
                                                                                                                                 DESCARTES_MAIN_FETAL_THYMOCYTES, DESCARTES_MAIN_FETAL_THYMOCYTES
                                                                                                                                  ATAACCT_MIR154, ATAACCT_MIR154
                                                                                                                                 GOBP_PROTEIN_MATURATION_BY_IRON_SULFUR_CLUSTER_TRANSFER, GOBP_PROTEIN_MATURATION_BY_IRON_SULFUR_CLUSTER_TRANSFER
                                                                                                                                 KAYO_CALORIE_RESTRICTION_MUSCLE_UP, KAYO_CALORIE_RESTRICTION_MUSCLE_UP
                                                                                                                                 HP PROGEROID FACIAL APPEARANCE, HP PROGEROID FACIAL APPEARANCE
                                                                                                                                 HP_PREMATURE_GRAYING_OF_HAIR, HP_PREMATURE_GRAYING_OF_HAIR
                                                                                                                                 HOEK_NEUTROPHIL_2011_2012_TIV_ADULT_1DY_DN, HOEK_NEUTROPHIL_2011_2012_TIV_ADULT_1DY_DN
                                                                                                                                  ZHAN_V1_LATE_DIFFERENTIATION_GENES_DN, ZHAN_V1_LATE_DIFFERENTIATION_GENES_DN
                                                                                                                                 HP_ABNORMAL_CORONARY_ARTERY_MORPHOLOGY, HP_ABNORMAL_CORONARY_ARTERY_MORPHOLOGY
                                                                                                                                  GOMF_PEPTIDASE_ACTIVATOR_ACTIVITY, GOMF_PEPTIDASE_ACTIVATOR_ACTIVITY
                                                                                                                                  HP_ABNORMAL_LARYNX_PHYSIOLOGY, HP_ABNORMAL_LARYNX_PHYSIOLOGY
                                                                                                                                  MIR4793_5P, MIR4793_5P
                                                                                                                                  HP_NEURONAL_LOSS_IN_CENTRAL_NERVOUS_SYSTEM, HP_NEURONAL_LOSS_IN_CENTRAL_NERVOUS_SYSTEM
                                                                                                                                  GOMF_MONOSACCHARIDE_BINDING, GOMF_MONOSACCHARIDE_BINDING
                                                                                                                                  MIR6836_3P, MIR6836_3P
                                                                                                                                 REACTOME_KERATAN_SULFATE_KERATIN_METABOLISM, REACTOME_KERATAN_SULFATE_KERATIN_METABOLISM
                                                                                                                                 GOCC_INTERCALATED_DISC, GOCC_INTERCALATED_DISC
                                                                                                                                 WANG_RECURRENT_LIVER_CANCER_UP, WANG_RECURRENT_LIVER_CANCER_UP
NTREATED_IN_VITRO_CD4_TCELL_DN, GSE17974_2H_VS_72H_UNTREATED_IN_VITRO_CD4_TCELL_DN
                                                                                                                                 KOHOUTEK_CCNT1_TARGETS, KOHOUTEK_CCNT1_TARGETS
                                                                                                                                 MIR3650, MIR3650
                                                                                                                                 GOBP_REGULATION_OF_MEMBRANE_INVAGINATION, GOBP_REGULATION_OF_MEMBRANE_INVAGINATION
                                                                                                                                 GOMF_MODIFIED_AMINO_ACID_BINDING, GOMF_MODIFIED_AMINO_ACID_BINDING
                                                                                                                                  GOBP_REGULATION_OF_B_CELL_PROLIFERATION, GOBP_REGULATION_OF_B_CELL_PROLIFERATION
                                                                                                                                  GOBP_CARBOHYDRATE_PHOSPHORYLATION, GOBP_CARBOHYDRATE_PHOSPHORYLATION
                                                                                                                                  GOBP_GALACTOSE_METABOLIC_PROCESS, GOBP_GALACTOSE_METABOLIC_PROCESS
                                                                                                                                  GOBP_KERATAN_SULFATE_METABOLIC_PROCESS, GOBP_KERATAN_SULFATE_METABOLIC_PROCESS
                                                                                                                                  HOWARD_T_CELL_INACT_MONOV_INFLUENZA_A_INDONESIA_05_2005_H5N1_AGE_18_49YO_1DY_UP, HOWARD_T_CELL_INACT_MONOV_INFLUENZA_A_INDONESIA_05_2005_H5N1_AGE_18_49YO_1DY_UP
                                                                                                                                  AIZARANI_LIVER_C8_RESIDENT_B_CELLS_1, AIZARANI_LIVER_C8_RESIDENT_B_CELLS_1
                                                                                                                                  REACTOME_NICOTINATE_METABOLISM, REACTOME_NICOTINATE_METABOLISM
                                                                                                                                  REACTOME_PLATELET_CALCIUM_HOMEOSTASIS, REACTOME_PLATELET_CALCIUM_HOMEOSTASIS
                                                                                                                                 HP_ACROCYANOSIS, HP_ACROCYANOSIS
                                                                                                                                 HP_ARTERIOSCLEROSIS, HP_ARTERIOSCLEROSIS
                                                                                                                                 HP_CORNEAL_EROSION, HP_CORNEAL_EROSION
                                                                                                                                 GOBP_PROTEIN_HYDROXYLATION, GOBP_PROTEIN_HYDROXYLATION
                                                                                                                                 HP_ABNORMAL_CIRCULATING_CHOLESTEROL_CONCENTRATION, HP_ABNORMAL_CIRCULATING_CHOLESTEROL_CONCENTRATION
                                                                                                                                 GOMF_RRNA_ADENINE_METHYLTRANSFERASE_ACTIVITY, GOMF_RRNA_ADENINE_METHYLTRANSFERASE_ACTIVITY
                                                                                                                                 GOBP_PYRIDINE_CONTAINING_COMPOUND_BIOSYNTHETIC_PROCESS, GOBP_PYRIDINE_CONTAINING_COMPOUND_BIOSYNTHETIC_PROCESS
                                                                                                                                 HP_PANNICULITIS, HP_PANNICULITIS
                                                                                                                                 PTEN_DN.V2_DN, PTEN_DN.V2_DN
                                                                                                                                 GOBP_REGULATION_OF_MAST_CELL_ACTIVATION, GOBP_REGULATION_OF_MAST_CELL_ACTIVATION
                                                                                                                                 GOBP_PURINE_NUCLEOBASE_BIOSYNTHETIC_PROCESS, GOBP_PURINE_NUCLEOBASE_BIOSYNTHETIC_PROCESS
                                                                                                                                 GOBP_HISTONE_H4_R3_METHYLATION, GOBP_HISTONE_H4_R3_METHYLATION
                                                                                                                                 HP_ARRHINENCEPHALY, HP_ARRHINENCEPHALY
                                                                                                                                 PRC1_BMI_UP.V1_DN, PRC1_BMI_UP.V1_DN
                                                                                                                                 GOBP_RIBOSOME_DISASSEMBLY, GOBP_RIBOSOME_DISASSEMBLY
                                                                                                                                 GOMF_OXIDOREDUCTASE_ACTIVITY_ACTING_ON_SINGLE_DONORS_WITH_INCORPORATION_OF_MOLECULAR_OXYGEN, GOMF_OXIDOREDUCTASE_ACTIVITY_ACTING_ON_SINGLE_DONORS_WITH_INCORPORATION
                                                                                                                                 GOMF_CAMP_RESPONSE_ELEMENT_BINDING, GOMF_CAMP_RESPONSE_ELEMENT_BINDING
                                                                                                                                 OHM_METHYLATED_IN_ADULT_CANCERS, OHM_METHYLATED_IN_ADULT_CANCERS
                                                                                                                                 GOBP_GLIAL_CELL_MIGRATION, GOBP_GLIAL_CELL_MIGRATION
                                                                                                                                 HP_APLASIA_HYPOPLASIA_OF_THE_HUMERUS, HP_APLASIA_HYPOPLASIA_OF_THE_HUMERUS
                                                                                                                                 WP_TRYPTOPHAN_CATABOLISM_LEADING_TO_NAD_PRODUCTION, WP_TRYPTOPHAN_CATABOLISM_LEADING_TO_NAD_PRODUCTION
                                                                                                                                 GOBP_EPITHELIAL_CELL_CELL_ADHESION, GOBP_EPITHELIAL_CELL_CELL_ADHESION
                                                                                                                                 HP_APLASIA_HYPOPLASIA_OF_THE_SCAPULAE, HP_APLASIA_HYPOPLASIA_OF_THE_SCAPULAE
                                                                                                                                 GOMF_BETA_CATENIN_BINDING, GOMF_BETA_CATENIN_BINDING
                                                                                                                                 HP_GENERALIZED_HYPOPIGMENTATION_OF_HAIR, HP_GENERALIZED_HYPOPIGMENTATION_OF_HAIR
                                                                                                                                 GOBP_PYRIDINE_CONTAINING_COMPOUND_METABOLIC_PROCESS, GOBP_PYRIDINE_CONTAINING_COMPOUND_METABOLIC_PROCESS
                                                                                                                                 GOBP_PURINE_NUCLEOBASE_METABOLIC_PROCESS, GOBP_PURINE_NUCLEOBASE_METABOLIC_PROCESS
                                                                                                                                 GOBP_PEPTIDYL_ARGININE_OMEGA_N_METHYLATION, GOBP_PEPTIDYL_ARGININE_OMEGA_N_METHYLATION
                                                                                                                                 GOBP_NEURON_MIGRATION, GOBP_NEURON_MIGRATION
                                                                                                                                 HP ABNORMAL BLISTERING OF THE SKIN, HP ABNORMAL BLISTERING OF THE SKIN
                                                                                                                                 ZNF548_TARGET_GENES, ZNF548_TARGET_GENES
                                                                                                                                 GOMF_RAGE_RECEPTOR_BINDING, GOMF_RAGE_RECEPTOR_BINDING
                                                                                                                                 STANELLE_E2F1_TARGETS, STANELLE_E2F1_TARGETS
                                                                                                                                 GOBP_REGULATION_OF_INTEGRIN_MEDIATED_SIGNALING_PATHWAY, GOBP_REGULATION_OF_INTEGRIN_MEDIATED_SIGNALING_PATHWAY
                                                                                                                                 WANG_METASTASIS_OF_BREAST_CANCER_ESR1_DN, WANG_METASTASIS_OF_BREAST_CANCER_ESR1_DN
                                                                                                                                 GOBP_RIBONUCLEOTIDE_CATABOLIC_PROCESS, GOBP_RIBONUCLEOTIDE_CATABOLIC_PROCESS
                                                                                                                                 HP_EXTRAPYRAMIDAL_MUSCULAR_RIGIDITY, HP_EXTRAPYRAMIDAL_MUSCULAR_RIGIDITY
                                                                                                                                 HP_CENTRALLY_NUCLEATED_SKELETAL_MUSCLE_FIBERS, HP_CENTRALLY_NUCLEATED_SKELETAL_MUSCLE_FIBERS
                                                                                                                                 HP_MACULAR_ATROPHY, HP_MACULAR_ATROPHY
                                                                                                                                  GAO_SMALL_INTESTINE_24W_C2_PROCRPOS_PROGENITOR, GAO_SMALL_INTESTINE_24W_C2_PROCRPOS_PROGENITOR
                                                                                                                                  LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_LARGE_VS_TINY_DN, LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_LARGE_VS_TINY_DN
                                                                                                                                 MIR6847_3P, MIR6847_3P
                                                                                                                                 HP_PSYCHOTIC_MENTATION, HP_PSYCHOTIC_MENTATION
                                                                                                                                 HP_DIFFICULTY_RUNNING, HP_DIFFICULTY_RUNNING
                                                                                                                                 PID_ARF6_PATHWAY, PID_ARF6_PATHWAY
                                                                                                                                 GOBP_NAD_BIOSYNTHETIC_PROCESS, GOBP_NAD_BIOSYNTHETIC_PROCESS
                                                                                                                                 MIR3126 3P, MIR3126 3P
                                                                                                                                 GSE29618_LAIV_VS_TIV_FLU_VACCINE_DAY7_BCELL_UP, GSE29618_LAIV_VS_TIV_FLU_VACCINE_DAY7_BCELL_UP
                                                                                                                                 GOBP_APICAL_JUNCTION_ASSEMBLY, GOBP_APICAL_JUNCTION_ASSEMBLY
                                                                                                                                 GOBP_TOLL_LIKE_RECEPTOR_4_SIGNALING_PATHWAY, GOBP_TOLL_LIKE_RECEPTOR_4_SIGNALING_PATHWAY
                                                                                                                                 GOCC_BRISC_COMPLEX, GOCC_BRISC_COMPLEX
                                                                                                                                 HP_ABNORMAL_CIRCULATING_CREATININE_CONCENTRATION, HP_ABNORMAL_CIRCULATING_CREATININE_CONCENTRATION
                                                                                                                                 GOBP_PEPTIDYL_PROLINE_HYDROXYLATION, GOBP_PEPTIDYL_PROLINE_HYDROXYLATION
                                                                                                                                 GOBP_ETHER_METABOLIC_PROCESS, GOBP_ETHER_METABOLIC_PROCESS
                                                                                                                                  GOBP_PIGMENT_GRANULE_MATURATION, GOBP_PIGMENT_GRANULE_MATURATION
                                                                                                                                 GOBP_ETHER_BIOSYNTHETIC_PROCESS, GOBP_ETHER_BIOSYNTHETIC_PROCESS
                                                                                                                                 NKX2_8_TARGET_GENES, NKX2_8_TARGET_GENES
                                                                                                                                 GOCC_SARCOPLASMIC_RETICULUM_MEMBRANE, GOCC_SARCOPLASMIC_RETICULUM_MEMBRANE
                                                                                                                                 HOXB7 TARGET GENES, HOXB7 TARGET GENES
                                                                                                                                 GOBP GLYCEROL ETHER METABOLIC PROCESS, GOBP GLYCEROL ETHER METABOLIC PROCESS
                                                                                                                                 GOBP_NEGATIVE_REGULATION_OF_PHAGOCYTOSIS, GOBP_NEGATIVE_REGULATION_OF_PHAGOCYTOSIS
                                                                                                                                 GOBP PINOCYTOSIS, GOBP PINOCYTOSIS
                                                                                                                                 GOBP_NEGATIVE_REGULATION_OF_NUCLEOCYTOPLASMIC_TRANSPORT, GOBP_NEGATIVE_REGULATION_OF_NUCLEOCYTOPLASMIC_TRANSPORT
                                                                                                                                 HP_POIKILODERMA, HP_POIKILODERMA
                                                                                                                                 HP_ENLARGED_KIDNEY, HP_ENLARGED_KIDNEY
                                                                                                                                 RAMPON_ENRICHED_LEARNING_ENVIRONMENT_LATE_UP, RAMPON_ENRICHED_LEARNING_ENVIRONMENT_LATE_UP
                                                                                                                                 GOBP B CELL PROLIFERATION, GOBP B CELL PROLIFERATION
                                                                                                                                 HP PROTUBERANT ABDOMEN, HP PROTUBERANT ABDOMEN
                                                                                                                                 HP_ABNORMALITY_OF_THE_MIDDLE_PHALANGES_OF_THE_TOES, HP_ABNORMALITY_OF_THE_MIDDLE_PHALANGES_OF_THE_TOES
                                                                                                                                 GOBP_REGULATION_OF_CHEMOKINE_MEDIATED_SIGNALING_PATHWAY, GOBP_REGULATION_OF_CHEMOKINE_MEDIATED_SIGNALING_PATHWAY
                                                                                                                                 GOCC_INSULIN_RESPONSIVE_COMPARTMENT, GOCC_INSULIN_RESPONSIVE_COMPARTMENT
                                                                                                                                 WP_TARGET_OF_RAPAMYCIN_TOR_SIGNALING, WP_TARGET_OF_RAPAMYCIN_TOR_SIGNALING
                                                                                                                                 REACTOME_CREB3_FACTORS_ACTIVATE_GENES, REACTOME_CREB3_FACTORS_ACTIVATE_GENES
                                                                                                                                 HP_VACUOLATED_LYMPHOCYTES, HP_VACUOLATED_LYMPHOCYTES
                                                                                                                                 FULLER_PBMC_F_TULARENSIS_VACCINE_LVS_AGE_22_54YO_18HR_TO_336HR_SUSTAINED_UP, FULLER_PBMC_F_TULARENSIS_VACCINE_LVS_AGE_22_54YO_18HR_TO_336HR_SUSTAINED_UP
                                                                                                                                 GOBP_REGULATION_OF_CELL_COMMUNICATION_BY_ELECTRICAL_COUPLING_INVOLVED_IN_CARDIAC_CONDUCTION, GOBP_REGULATION_OF_CELL_COMMUNICATION_BY_ELECTRICAL_COUPLING_INVOLVED_INCARDIAC_CONDUCTION_OF_CELL_COMMUNICATION_BY_ELECTRICAL_COUPLING_INVOLVED_INCARDIAC_CONDUCTION_OF_CELL_COMMUNICATION_BY_ELECTRICAL_COUPLING_INVOLVED_INCARDIAC_CONDUCTION_BY_ELECTRICAL_COUPLING_INVOLVED_INCARDIAC_CONDUCTION_BY_ELECTRICAL_COUPLING_INVOLVED_INCARDIAC_CONDUCTION_BY_ELECTRICAL_COUPLING_INVOLVED_INCARDIAC_COUPLING_INVOLVED_INCARDIAC_COUPLING_INVOLVED_INCARDIAC_COUPLING_INVOLVED_INCARDIAC_COUPLING_INVOLVED_INCARDIAC_COUPLING_INVOLVED_INCARDIAC_COUPLING_INVOLVED_INCARDIAC_COUPLING_INVOLVED_INCARDIAC_COUPLING_INVOLVED_INCARDIAC_COUPLING_INVOLVED_INCARD_INCARD_INCARD
                                                                                                                                 GSE25677_R848_VS_MPL_AND_R848_STIM_BCELL_UP, GSE25677_R848_VS_MPL_AND_R848_STIM_BCELL_UP
                                                                                                                                  HP_FLARING_OF_RIB_CAGE, HP_FLARING_OF_RIB_CAGE
                                                                                                                                  GOCC_TUBULAR_ENDOSOME, GOCC_TUBULAR_ENDOSOME
                                                                                                                                 REACTOME_APOPTOSIS_INDUCED_DNA_FRAGMENTATION, REACTOME_APOPTOSIS_INDUCED_DNA_FRAGMENTATION
                                                                                                                                  KIM_GLIS2_TARGETS_UP, KIM_GLIS2_TARGETS_UP
                                                                                                                                  MATZUK_MEIOTIC_AND_DNA_REPAIR, MATZUK_MEIOTIC_AND_DNA_REPAIR
                                                                                                                                 HP_APLASIA_HYPOPLASIA_OF_THE_HALLUX, HP_APLASIA_HYPOPLASIA_OF_THE_HALLUX
                                                                                                                                 GOBP_POSITIVE_REGULATION_OF_MONONUCLEAR_CELL_MIGRATION, GOBP_POSITIVE_REGULATION_OF_MONONUCLEAR_CELL_MIGRATION
                                                                                                                                 GOBP_POSITIVE_REGULATION_OF_INSULIN_SECRETION_INVOLVED_IN_CELLULAR_RESPONSE_TO_GLUCOSE_STIMULUS, GOBP_POSITIVE_REGULATION_INVOLVED_IN_CELLULAR_RESPONSE_TO_GLUCOSE_STIMULUS, GOBP_POSITIVE_REGULATION_INVOLVED_IN_CELLULAR_RESPONSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_TO_GLUCOSE_
                                                                                                                                  GOBP_POSITIVE_REGULATION_OF_JUN_KINASE_ACTIVITY, GOBP_POSITIVE_REGULATION_OF_JUN_KINASE_ACTIVITY
                                                                                                                                  GOMF_GLUCOSE_BINDING, GOMF_GLUCOSE_BINDING
                                                                                                                                  HP DECREASED NUMBER OF PERIPHERAL MYELINATED NERVE FIBERS, HP DECREASED NUMBER OF PERIPHERAL MYELINATED NERVE FIBERS
                                                                                                                                 KEGG_NICOTINATE_AND_NICOTINAMIDE_METABOLISM, KEGG_NICOTINATE_AND_NICOTINAMIDE_METABOLISM
                                                                                                                                  GOBP_NEGATIVE_REGULATION_OF_PROTEIN_LOCALIZATION_TO_NUCLEUS, GOBP_NEGATIVE_REGULATION_OF_PROTEIN_LOCALIZATION_TO_NUCLEUS
                                                                                                                                  KEGG_GALACTOSE_METABOLISM, KEGG_GALACTOSE_METABOLISM
                                                                                                                                  HP_APLASIA_HYPOPLASIA_OF_THE_PHALANGES_OF_THE_HALLUX, HP_APLASIA_HYPOPLASIA_OF_THE_PHALANGES_OF_THE_HALLUX
                                                                                                                                  HP_ABNORMALITY_OF_THE_DISTAL_PHALANX_OF_THE_HALLUX, HP_ABNORMALITY_OF_THE_DISTAL_PHALANX_OF_THE_HALLUX
                                                                                                                                 GOBP_REGULATION_OF_RESPONSE_TO_OSMOTIC_STRESS, GOBP_REGULATION_OF_RESPONSE_TO_OSMOTIC_STRESS
                                                                                                                                 GOBP_NEGATIVE_REGULATION_OF_RYANODINE_SENSITIVE_CALCIUM_RELEASE_CHANNEL_ACTIVITY, GOBP_NEGATIVE_REGULATION_OF_RYANODINE_SENSITIVE_CALCIUM_RELEASE_CHANNEL_ACTIVITY
                                                                                                                                  HP_ENDOCARDIAL_FIBROSIS, HP_ENDOCARDIAL_FIBROSIS
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YAMANAKA GLIOBLASTOMA SURVIVAL UP, YAMANAKA GLIOBLASTOMA SURVIVAL UP

GOBP\_POSITIVE\_REGULATION\_OF\_INSULIN\_SECRETION, GOBP\_POSITIVE\_REGULATION\_OF\_INSULIN\_SECRETION

GOBP\_DOPAMINE\_METABOLIC\_PROCESS, GOBP\_DOPAMINE\_METABOLIC\_PROCESS

GOBP\_ALDITOL\_METABOLIC\_PROCESS, GOBP\_ALDITOL\_METABOLIC\_PROCESS

GOCC\_GERM\_CELL\_NUCLEUS, GOCC\_GERM\_CELL\_NUCLEUS

SRC UP.V1 UP, SRC UP.V1 UP