```
GSE46606 IRF4MID_VS_WT_CD40L_IL2_IL5_DAY3_STIMULATED_BCELL_DN, GSE46606_IRF4MID_VS_WT_CD40L_IL2_IL5_DAY3_STIMULATED_BCELL_DN
                                                                                                                            GSE339 EX VIVO VS IN CULTURE CD8POS DC UP, GSE339 EX VIVO VS IN CULTURE CD8POS DC UP
                                                                                                                            GSE46606_DAY1_VS_DAY3_CD40L_IL2_IL5_STIMULATED_IRF4HIGH_BCELL_UP, GSE46606_DAY1_VS_DAY3_CD40L_IL2_IL5_STIMULATED_IRF4HIGH_BCELL_UP
                                                                                                                            GSE19923_HEB_KO_VS_HEB_AND_E2A_KO_DP_THYMOCYTE_UP, GSE19923_HEB_KO_VS_HEB_AND_E2A_KO_DP_THYMOCYTE_UP
                                                                                                                            GSE22935_UNSTIM_VS_12H_MBOVIS_BCG_STIM_MACROPHAGE_UP, GSE22935_UNSTIM_VS_12H_MBOVIS_BCG_STIM_MACROPHAGE_UP
                                                                                                                            GSE15930_STIM_VS_STIM_AND_IL12_48H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_IL12_48H_CD8_T_CELL_UP
                                                                                                                            GSE9601_NFKB_INHIBITOR_VS_PI3K_INHIBITOR_TREATED_HCMV_INF_MONOCYTE_UP, GSE9601_NFKB_INHIBITOR_VS_PI3K_INHIBITOR_TREATED_HCMV_INF_MONOCYTE_UP
                                                                                                                            GSE9316_IL6_KO_VS_IFNG_KO_INVIVO_EXPANDED_CD4_TCELL_UP, GSE9316_IL6_KO_VS_IFNG_KO_INVIVO_EXPANDED_CD4_TCELL_UP
                                                                                                                            GSE5503_LIVER_DC_VS_MLN_DC_ACTIVATED_ALLOGENIC_TCELL_DN, GSE5503_LIVER_DC_VS_MLN_DC_ACTIVATED_ALLOGENIC_TCELL_DN
                                                                                                                            GSE12198_CTRL_VS_LOW_IL2_STIM_NK_CELL_UP, GSE12198_CTRL_VS_LOW_IL2_STIM_NK_CELL_UP
                                                                                                                            GSE10273_HIGH_VS_LOW_IL7_TREATED_IRF4_8_NULL_PRE_BCELL_DN, GSE10273_HIGH_VS_LOW_IL7_TREATED_IRF4_8_NULL_PRE_BCELL_DN
                                                                                                                            GSE15330_HSC_VS_LYMPHOID_PRIMED_MULTIPOTENT_PROGENITOR_IKAROS_KO_UP, GSE15330_HSC_VS_LYMPHOID_PRIMED_MULTIPOTENT_PROGENITOR_IKAROS_KO_UP
                                                                                                                            GSE26912 TUMORICIDAL VS CTRL MACROPHAGE DN, GSE26912 TUMORICIDAL VS CTRL MACROPHAGE DN
                                                                                                                            GSE17580_UNINFECTED_VS_S_MANSONI_INF_TEFF_UP, GSE17580_UNINFECTED_VS_S_MANSONI_INF_TEFF_UP
                                                                                                                            GSE35685_CD34POS_CD38NEG_VS_CD34POS_CD10POS_BONE_MARROW_UP, GSE35685_CD34POS_CD38NEG_VS_CD34POS_CD10POS_BONE_MARROW_UP
                                                                                                                            GSE17721_LPS_VS_CPG_12H_BMDC_DN, GSE17721_LPS_VS_CPG_12H_BMDC_DN
                                                                                                                            GSE36527_CD62L_HIGH_CD69_NEG_VS_CD62L_LOW_CD69_POS_TREG_KLRG1_NEG_UP, GSE36527_CD62L_HIGH_CD69_NEG_VS_CD62L_LOW_CD69_POS_TREG_KLRG1_NEG_UP
                                                                                                                            GSE29618_PRE_VS_DAY7_POST_TIV_FLU_VACCINE_MONOCYTE_DN, GSE29618_PRE_VS_DAY7_POST_TIV_FLU_VACCINE_MONOCYTE_DN
                                                                                                                            HP_MYALGIA, HP_MYALGIA
                                                                                                                            GSE17721_LPS_VS_PAM3CSK4_0.5H_BMDC_UP, GSE17721_LPS_VS_PAM3CSK4_0.5H_BMDC_UP
                                                                                                                            REACTOME_REGULATION_OF_LIPID_METABOLISM_BY_PPARALPHA, REACTOME_REGULATION_OF_LIPID_METABOLISM_BY_PPARALPHA
                                                                                                                           HP_ARTHRALGIA, HP_ARTHRALGIA
                                                                                                                           MODULE 430, MODULE 430
                                                                                                                           MIR5699_5P, MIR5699_5P
                                                                                                                           FLECHNER_PBL_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP, FLECHNER_PBL_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP
                                                                                                                           SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN, SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
                                                                                                                            GSE12963 UNINF VS ENV AND NEF AND VPR DEFICIENT HIV1 INF CD4 TCELL UP, GSE12963 UNINF VS ENV AND NEF AND VPR DEFICIENT HIV1 INF CD4 TCELL UP
                                                                                                                            MIR3929, MIR3929
                                                                                                                            AKT_UP.V1_DN, AKT_UP.V1_DN
                                                                                                                            GOBP_REGULATION_OF_LYMPHOCYTE_MEDIATED_IMMUNITY, GOBP_REGULATION_OF_LYMPHOCYTE_MEDIATED_IMMUNITY
                                                                                                                            WP_ENERGY_METABOLISM, WP_ENERGY_METABOLISM
                                                                                                                            GSE34156_NOD2_LIGAND_VS_NOD2_AND_TLR1_TLR2_LIGAND_6H_TREATED_MONOCYTE_DN, GSE34156_NOD2_LIGAND_VS_NOD2_AND_TLR1_TLR2_LIGAND_6H_TREATED_MO
                                                                                                                            GSE3982_CTRL_VS_PMA_STIM_EOSINOPHIL_DN, GSE3982_CTRL_VS_PMA_STIM_EOSINOPHIL_DN
                                                                                                                            HP_ABNORMAL_SACCADIC_EYE_MOVEMENTS, HP_ABNORMAL_SACCADIC_EYE_MOVEMENTS
                                                                                                                            WP_IL6_SIGNALING_PATHWAY, WP_IL6_SIGNALING_PATHWAY
                                                                                                                            GSE15659_NAIVE_CD4_TCELL_VS_RESTING_TREG_DN, GSE15659_NAIVE_CD4_TCELL_VS_RESTING_TREG_DN
                                                                                                                            REACTOME_SIGNALING_BY_CSF3_G_CSF, REACTOME_SIGNALING_BY_CSF3_G_CSF
                                                                                                                            HP_DELAYED_CRANIAL_SUTURE_CLOSURE, HP_DELAYED_CRANIAL_SUTURE_CLOSURE
                                                                                                                            MORF_PTEN, MORF_PTEN
                                                                                                                            HP_UNUSUAL_INFECTION_BY_ANATOMICAL_SITE, HP_UNUSUAL_INFECTION_BY_ANATOMICAL_SITE
                                                                                                                            GSE16266_LPS_VS_HEATSHOCK_AND_LPS_STIM_MEF_UP, GSE16266_LPS_VS_HEATSHOCK_AND_LPS_STIM_MEF_UP
                                                                                                                            GOBP_INTRACELLULAR_LIPID_TRANSPORT, GOBP_INTRACELLULAR_LIPID_TRANSPORT
                                                                                                                            GSE37319_WT_VS_RC3H1_KO_CD44LOW_CD8_TCELL_UP, GSE37319_WT_VS_RC3H1_KO_CD44LOW_CD8_TCELL_UP
                                                                                                                            TERT_TARGET_GENES, TERT_TARGET_GENES
                                                                                                                            MIR1271_3P, MIR1271_3P
                                                                                                                            WP_IL3_SIGNALING_PATHWAY, WP_IL3_SIGNALING_PATHWAY
                                                                                                                            HP_MANIA, HP_MANIA
                                                                                                                            CHIARETTI_ACUTE_LYMPHOBLASTIC_LEUKEMIA_ZAP70, CHIARETTI_ACUTE_LYMPHOBLASTIC_LEUKEMIA_ZAP70
                                                                                                                            GOCC_EXTRINSIC_COMPONENT_OF_ORGANELLE_MEMBRANE, GOCC_EXTRINSIC_COMPONENT_OF_ORGANELLE_MEMBRANE
                                                                                                                            REACTOME_INACTIVATION_OF_CSF3_G_CSF_SIGNALING, REACTOME_INACTIVATION_OF_CSF3_G_CSF_SIGNALING
                                                                                                                            ZSCAN5B_TARGET_GENES, ZSCAN5B_TARGET_GENES
                                                                                                                            WP_MICROGLIA_PATHOGEN_PHAGOCYTOSIS_PATHWAY, WP_MICROGLIA_PATHOGEN_PHAGOCYTOSIS_PATHWAY
                                                                                                                            MORF NF1, MORF NF1
                                                                                                                            MIR550A_3_5P_MIR550A_5P, MIR550A_3_5P_MIR550A_5P
                                                                                                                            GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_6_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_6_PRODUCTION
                                                                                                                            HP MENINGITIS, HP MENINGITIS
                                                                                                                            MYAATNNNNNNGGC_UNKNOWN, MYAATNNNNNNNGGC_UNKNOWN
                                                                                                                            WP_OVERVIEW_OF_LEUKOCYTEINTRINSIC_HIPPO_PATHWAY_FUNCTIONS, WP_OVERVIEW_OF_LEUKOCYTEINTRINSIC_HIPPO_PATHWAY_FUNCTIONS
                                                                                                                            GGGATGC_MIR3245P, GGGATGC_MIR3245P
                                                                                                                            HP_SLOW_SACCADIC_EYE_MOVEMENTS, HP_SLOW_SACCADIC_EYE_MOVEMENTS
                                                                                                                            HP_ATHETOSIS, HP_ATHETOSIS
                                                                                                                            HP_ABNORMAL_ERYTHROCYTE_SEDIMENTATION_RATE, HP_ABNORMAL_ERYTHROCYTE_SEDIMENTATION_RATE
                                                                                                                            GOBP_RETROGRADE_TRANSPORT_ENDOSOME_TO_PLASMA_MEMBRANE, GOBP_RETROGRADE_TRANSPORT_ENDOSOME_TO_PLASMA_MEMBRANE
                                                                                                                            HP_AUTOIMMUNE_ANTIBODY_POSITIVITY, HP_AUTOIMMUNE_ANTIBODY_POSITIVITY
                                                                                                                            HP_ABNORMALITY_OF_T_CELL_PHYSIOLOGY, HP_ABNORMALITY_OF_T_CELL_PHYSIOLOGY
                                                                                                                            HP_AIRWAY_OBSTRUCTION, HP_AIRWAY_OBSTRUCTION
                                                                                                                            MIR7160_3P, MIR7160_3P
                                                                                                                            GOMF_NON_MEMBRANE_SPANNING_PROTEIN_TYROSINE_KINASE_ACTIVITY, GOMF_NON_MEMBRANE_SPANNING_PROTEIN_TYROSINE_KINASE_ACTIVITY
                                                                                                                            MORF_STK17A, MORF_STK17A
                                                                                                                            GOBP_MEMBRANE_DEPOLARIZATION, GOBP_MEMBRANE_DEPOLARIZATION
                                                                                                                            GSE14413_UNSTIM_VS_IFNB_STIM_L929_CELLS_DN, GSE14413_UNSTIM_VS_IFNB_STIM_L929_CELLS_DN
                                                                                                                            GOBP_REGULATION_OF_B_CELL_MEDIATED_IMMUNITY, GOBP_REGULATION_OF_B_CELL_MEDIATED_IMMUNITY
                                                                                                                            HP_ACNE, HP_ACNE
                                                                                                                            HP_ACUTE_PHASE_RESPONSE, HP_ACUTE_PHASE_RESPONSE
                                                                                                                            GOBP_GAMMA_DELTA_T_CELL_ACTIVATION, GOBP_GAMMA_DELTA_T_CELL_ACTIVATION
                                                                                                                            MIR328_5P, MIR328_5P
                                                                                                                            REACTOME_LYSOSOME_VESICLE_BIOGENESIS, REACTOME_LYSOSOME_VESICLE_BIOGENESIS
                                                                                                                            HP_DIPLOPIA, HP_DIPLOPIA
                                                                                                                            GOBP_DNA_METHYLATION_DEPENDENT_HETEROCHROMATIN_ASSEMBLY, GOBP_DNA_METHYLATION_DEPENDENT_HETEROCHROMATIN_ASSEMBLY
                                                                                                                            HP_ATRIAL_ARRHYTHMIA, HP_ATRIAL_ARRHYTHMIA
                                                                                                                            GOBP_NEUROMUSCULAR_JUNCTION_DEVELOPMENT, GOBP_NEUROMUSCULAR_JUNCTION_DEVELOPMENT
                                                                                                                            GOBP POSITIVE REGULATION_OF_INTERLEUKIN_8_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_8_PRODUCTION
                                                                                                                            GOBP POSITIVE REGULATION OF PEPTIDYL LYSINE ACETYLATION, GOBP POSITIVE REGULATION OF PEPTIDYL LYSINE ACETYLATION
                                                                                                                            HP_ABNORMAL_TRICUSPID_VALVE_MORPHOLOGY, HP_ABNORMAL_TRICUSPID_VALVE_MORPHOLOGY
                                                                                                                            HP_VIRAL_HEPATITIS, HP_VIRAL_HEPATITIS
                                                                                                                            MIR6885_5P, MIR6885_5P
                                                                                                                            GOBP_RESPONSE_TO_INCREASED_OXYGEN_LEVELS, GOBP_RESPONSE_TO_INCREASED_OXYGEN_LEVELS
                                                                                                                            MORF_CASP10, MORF_CASP10
                                                                                                                            GOBP LONG_CHAIN_FATTY_ACID_TRANSPORT, GOBP_LONG_CHAIN_FATTY_ACID_TRANSPORT
                                                                                                                            MIR3169, MIR3169
                                                                                                                            GOBP_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION, GOBP_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION
                                                                                                                            HP_DELAYED_CLOSURE_OF_THE_ANTERIOR_FONTANELLE, HP_DELAYED_CLOSURE_OF_THE_ANTERIOR_FONTANELLE
                                                                                                                            GOBP_PLATELET_MORPHOGENESIS, GOBP_PLATELET_MORPHOGENESIS
                                                                                                                            GOBP_REGULATION_OF_GAMMA_DELTA_T_CELL_ACTIVATION, GOBP_REGULATION_OF_GAMMA_DELTA_T_CELL_ACTIVATION
                                                                                                                            GOBP_POSITIVE_REGULATION_OF_DNA_RECOMBINATION, GOBP_POSITIVE_REGULATION_OF_DNA_RECOMBINATION
                                                                                                                            REACTOME_INTERLEUKIN_3_INTERLEUKIN_5_AND_GM_CSF_SIGNALING, REACTOME_INTERLEUKIN_3_INTERLEUKIN_5_AND_GM_CSF_SIGNALING
                                                                                                                            GOBP_POSITIVE_REGULATION_OF_B_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_B_CELL_ACTIVATION
                                                                                                                            HP_MICRONODULAR_CIRRHOSIS, HP_MICRONODULAR_CIRRHOSIS
                                                                                                                            GOBP_POSITIVE_REGULATION_OF_DNA_BINDING, GOBP_POSITIVE_REGULATION_OF_DNA_BINDING
                                                                                                                            WP_HIPPOYAP_SIGNALING_PATHWAY, WP_HIPPOYAP_SIGNALING_PATHWAY
                                                                                                                            MIR376B_5P_MIR376C_5P, MIR376B_5P_MIR376C_5P
L10_STIM_IL10_KO_MACROPHAGE_10MIN_DN, GSE9509_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_10MIN_DN
                                                                                                                            HP_THIN_RIBS, HP_THIN_RIBS
                                                                                                                            GOBP_REGULATION_OF_ALPHA_BETA_T_CELL_DIFFERENTIATION, GOBP_REGULATION_OF_ALPHA_BETA_T_CELL_DIFFERENTIATION
                                                                                                                            BIOCARTA_NKCELLS_PATHWAY, BIOCARTA_NKCELLS_PATHWAY
                                                                                                                            GOBP_REGULATION_OF_GLIOGENESIS, GOBP_REGULATION_OF_GLIOGENESIS
                                                                                                                            ULE SPLICING_VIA_NOVA2, ULE SPLICING_VIA_NOVA2
                                                                                                                            REACTOME_CARNITINE_METABOLISM, REACTOME_CARNITINE_METABOLISM
                                                                                                                            WP_TRANSCRIPTION_COFACTORS_SKI_AND_SKIL_PROTEIN_PARTNERS, WP_TRANSCRIPTION_COFACTORS_SKI_AND_SKIL_PROTEIN_PARTNERS
                                                                                                                            LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_UP, LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_UP
                                                                                                                            HP_LEFT_VENTRICULAR_SYSTOLIC_DYSFUNCTION, HP_LEFT_VENTRICULAR_SYSTOLIC_DYSFUNCTION
                                                                                                                            GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_1_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_1_PRODUCTION
                                                                                                                            GOBP_POSITIVE_REGULATION_OF_GAMMA_DELTA_T_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_GAMMA_DELTA_T_CELL_ACTIVATION
                                                                                                                            WP_SPLICING_FACTOR_NOVA_REGULATED_SYNAPTIC_PROTEINS, WP_SPLICING_FACTOR_NOVA_REGULATED_SYNAPTIC_PROTEINS
                                                                                                                            GOBP_AMYLOID_BETA_CLEARANCE, GOBP_AMYLOID_BETA_CLEARANCE
                                                                                                                            GOBP_MITOCHONDRIAL_DEPOLARIZATION, GOBP_MITOCHONDRIAL_DEPOLARIZATION
                                                                                                                            BIOCARTA GRANULOCYTES PATHWAY, BIOCARTA GRANULOCYTES PATHWAY
                                                                                                                            HEIDENBLAD_AMPLICON_12P11_12_DN, HEIDENBLAD_AMPLICON_12P11_12_DN
                                                                                                                            REACTOME_REGULATION_OF_IFNA_SIGNALING, REACTOME_REGULATION_OF_IFNA_SIGNALING
                                                                                                                            GOBP_GAMMA_DELTA_T_CELL_DIFFERENTIATION, GOBP_GAMMA_DELTA_T_CELL_DIFFERENTIATION
                                                                                                                            WP_RALA_DOWNSTREAM_REGULATED_GENES, WP_RALA_DOWNSTREAM_REGULATED_GENES
                                                                                                                            GOBP_REGULATION_OF_HUMORAL_IMMUNE_RESPONSE_MEDIATED_BY_CIRCULATING_IMMUNOGLOBULIN, GOBP_REGULATION_OF_HUMORAL_IMMUNE_RESPONSE_MEDIA
                                                                                                                            GOBP_AMINO_SUGAR_BIOSYNTHETIC_PROCESS, GOBP_AMINO_SUGAR_BIOSYNTHETIC_PROCESS
                                                                                                                            HP_ABNORMALITY_OF_RENAL_RESORPTION, HP_ABNORMALITY_OF_RENAL_RESORPTION
                                                                                                                            REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS, REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS
                                                                                                                            HP_POLYARTICULAR_ARTHROPATHY, HP_POLYARTICULAR_ARTHROPATHY
                                                                                                                            GOBP_BILE_ACID_METABOLIC_PROCESS, GOBP_BILE_ACID_METABOLIC_PROCESS
                                                                                                                            GOBP_N_ACETYLNEURAMINATE_METABOLIC_PROCESS, GOBP_N_ACETYLNEURAMINATE_METABOLIC_PROCESS
                                                                                                                            BIOCARTA_LYM_PATHWAY, BIOCARTA_LYM_PATHWAY
                                                                                                                            HP_ABNORMAL_C_REACTIVE_PROTEIN_LEVEL, HP_ABNORMAL_C_REACTIVE_PROTEIN_LEVEL
                                                                                                                            HP_ABNORMALITY_OF_VON_WILLEBRAND_FACTOR, HP_ABNORMALITY_OF_VON_WILLEBRAND_FACTOR
                                                                                                                            KASLER_HDAC7_TARGETS_2_UP, KASLER_HDAC7_TARGETS_2_UP
                                                                                                                            GOBP_POSITIVE_REGULATION_OF_REACTIVE_OXYGEN_SPECIES_METABOLIC_PROCESS, GOBP_POSITIVE_REGULATION_OF_REACTIVE_OXYGEN_SPECIES_METABOLIC_PROCESS
                                                                                                                            WP_NANOPARTICLE_TRIGGERED_REGULATED_NECROSIS, WP_NANOPARTICLE_TRIGGERED_REGULATED_NECROSIS
                                                                                                                            WP_TYPE_II_DIABETES_MELLITUS, WP_TYPE_II_DIABETES_MELLITUS
                                                                                                                            BIOCARTA_CHEMICAL_PATHWAY, BIOCARTA_CHEMICAL_PATHWAY
                                                                                                                            GOBP_SUPEROXIDE_METABOLIC_PROCESS, GOBP_SUPEROXIDE_METABOLIC_PROCESS
                                                                                                                            HP_ORTHOPNEA, HP_ORTHOPNEA
                                                                                                                            PID_INTEGRIN2_PATHWAY, PID_INTEGRIN2_PATHWAY
                                                                                                                            HP_CENTRAL_Y_SHAPED_METACARPAL, HP_CENTRAL_Y_SHAPED_METACARPAL
                                                                                                                            HP_PLATYBASIA, HP_PLATYBASIA
                                                                                                                            GOBP_COENZYME_A_METABOLIC_PROCESS, GOBP_COENZYME_A_METABOLIC_PROCESS
                                                                                                                            HP_RENAL_FANCONI_SYNDROME, HP_RENAL_FANCONI_SYNDROME
                                                                                                                            GOBP_RESPIRATORY_BURST, GOBP_RESPIRATORY_BURST
                                                                                                                            WP_PATHWAYS_OF_NUCLEIC_ACID_METABOLISM_AND_INNATE_IMMUNE_SENSING, WP_PATHWAYS_OF_NUCLEIC_ACID_METABOLISM_AND_INNATE_IMMUNE_SENSING
                                                                                                                            GOBP_UDP_N_ACETYLGLUCOSAMINE_METABOLIC_PROCESS, GOBP_UDP_N_ACETYLGLUCOSAMINE_METABOLIC_PROCESS
                                                                                                                            REACTOME_VITAMIN_B5_PANTOTHENATE_METABOLISM, REACTOME_VITAMIN_B5_PANTOTHENATE_METABOLISM
                                                                                                                            HP_ABNORMALITY_OF_THE_TONSILS, HP_ABNORMALITY_OF_THE_TONSILS
                                                                                                                            GOBP_ORGANIC_CATION_TRANSPORT, GOBP_ORGANIC_CATION_TRANSPORT
                                                                                                                            REACTOME_NCAM1_INTERACTIONS, REACTOME_NCAM1_INTERACTIONS
                                                                                                                            GOBP_UDP_N_ACETYLGLUCOSAMINE_BIOSYNTHETIC_PROCESS, GOBP_UDP_N_ACETYLGLUCOSAMINE_BIOSYNTHETIC_PROCESS
                                                                                                                            GOBP_REGULATION_OF_MEMBRANE_DEPOLARIZATION, GOBP_REGULATION_OF_MEMBRANE_DEPOLARIZATION
                                                                                                                            RADAEVA_RESPONSE_TO_IFNA1_DN, RADAEVA_RESPONSE_TO_IFNA1_DN
                                                                                                                            HP_SPINAL_CORD_TUMOR, HP_SPINAL_CORD_TUMOR
                                                                                                                            BIOCARTA_MSP_PATHWAY, BIOCARTA_MSP_PATHWAY
                                                                                                                            HP_HYPOINTENSITY_OF_CEREBRAL_WHITE_MATTER_ON_MRI, HP_HYPOINTENSITY_OF_CEREBRAL_WHITE_MATTER_ON_MRI
                                                                                                                            GOBP_NECROPTOTIC_SIGNALING_PATHWAY, GOBP_NECROPTOTIC_SIGNALING_PATHWAY
                                                                                                                            HP_HYPOMETRIC_SACCADES, HP_HYPOMETRIC_SACCADES
                                                                                                                            GOBP_AMINO_SUGAR_CATABOLIC_PROCESS, GOBP_AMINO_SUGAR_CATABOLIC_PROCESS
                                                                                                                            HP_ABNORMAL_BLOOD_TRANSITION_ELEMENT_CATION_CONCENTRATION, HP_ABNORMAL_BLOOD_TRANSITION_ELEMENT_CATION_CONCENTRATION
                                                                                                                            REACTOME_ERYTHROPOIETIN_ACTIVATES_STAT5, REACTOME_ERYTHROPOIETIN_ACTIVATES_STAT5
                                                                                                                            BIOCARTA_D4GDI_PATHWAY, BIOCARTA_D4GDI_PATHWAY
                                                                                                                            GOBP REGULATION OF B CELL DIFFERENTIATION, GOBP REGULATION OF B CELL DIFFERENTIATION
                                                                                                                            GOBP GLIAL CELL PROLIFERATION, GOBP GLIAL CELL PROLIFERATION
                                                                                                                            MORF_PRKCA, MORF_PRKCA
                                                                                                                            HP_CORNEAL_NEOVASCULARIZATION, HP_CORNEAL_NEOVASCULARIZATION
                                                                                                                            SMID_BREAST_CANCER_RELAPSE_IN_LIVER_DN, SMID_BREAST_CANCER_RELAPSE_IN_LIVER_DN
                                                                                                                            WP_METHYLATION_PATHWAYS, WP_METHYLATION_PATHWAYS
                                                                                                                            HP_CHOROID_PLEXUS_CYST, HP_CHOROID_PLEXUS_CYST
                                                                                                                            GOBP_N_ACETYLNEURAMINATE_CATABOLIC_PROCESS, GOBP_N_ACETYLNEURAMINATE_CATABOLIC_PROCESS
                                                                                                                            REACTOME SYNTHESIS OF WYBUTOSINE AT G37 OF TRNA PHE, REACTOME SYNTHESIS OF WYBUTOSINE AT G37 OF TRNA PHE
                                                                                                                            HP NEUROINFLAMMATION, HP NEUROINFLAMMATION
                                                                                                                            HP_RECURRENT_STAPHYLOCOCCAL_INFECTIONS, HP_RECURRENT_STAPHYLOCOCCAL_INFECTIONS
                                                                                                                            GOBP_INTERLEUKIN_8_PRODUCTION, GOBP_INTERLEUKIN_8_PRODUCTION
                                                                                                                            PID_IL27_PATHWAY, PID_IL27_PATHWAY
                                                                                                                            BIOCARTA_LAIR_PATHWAY, BIOCARTA_LAIR_PATHWAY
                                                                                                                           WP_CELLS_AND_MOLECULES_INVOLVED_IN_LOCAL_ACUTE_INFLAMMATORY_RESPONSE, WP_CELLS_AND_MOLECULES_INVOLVED_IN_LOCAL_ACUTE_INFLAMMATORY_RES
                                                                                                                           HP_RHEUMATOID_FACTOR_POSITIVE, HP_RHEUMATOID_FACTOR_POSITIVE
                                                                                                                           GOCC_EXTRINSIC_COMPONENT_OF_MITOCHONDRIAL_INNER_MEMBRANE, GOCC_EXTRINSIC_COMPONENT_OF_MITOCHONDRIAL_INNER_MEMBRANE
                                                                                                                            WP HOSTPATHOGEN INTERACTION OF HUMAN CORONA VIRUSES APOPTOSIS, WP HOSTPATHOGEN INTERACTION OF HUMAN CORONA VIRUSES APOPTOSIS
                                                                                                                            HP_TONGUE_NODULES, HP_TONGUE_NODULES
                                                                                                                            WP_SARS_CORONAVIRUS_AND_INNATE_IMMUNITY, WP_SARS_CORONAVIRUS_AND_INNATE_IMMUNITY
                                                                                                                           GOBP_NEGATIVE_REGULATION_OF_MORPHOGENESIS_OF_AN_EPITHELIUM, GOBP_NEGATIVE_REGULATION_OF_MORPHOGENESIS_OF_AN_EPITHELIUM
                                                                                                                            HP_MUSCLE_FIBER_NECROSIS, HP_MUSCLE_FIBER_NECROSIS
                                                                                                                            HP_HYPOPLASIA_OF_OLFACTORY_TRACT, HP_HYPOPLASIA_OF_OLFACTORY_TRACT
                                                                                                                            GOBP_ETHANOLAMINE_CONTAINING_COMPOUND_METABOLIC_PROCESS, GOBP_ETHANOLAMINE_CONTAINING_COMPOUND_METABOLIC_PROCESS
                                                                                                                           GOBP_SYNAPTIC_GROWTH_AT_NEUROMUSCULAR_JUNCTION, GOBP_SYNAPTIC_GROWTH_AT_NEUROMUSCULAR_JUNCTION
                                                                                                                            GOBP_ALKANESULFONATE_METABOLIC_PROCESS, GOBP_ALKANESULFONATE_METABOLIC_PROCESS
                                                                                                                            GOBP_POSITIVE_REGULATION_OF_ISOTYPE_SWITCHING, GOBP_POSITIVE_REGULATION_OF_ISOTYPE_SWITCHING
                                                                                                                            GOMF_PHOSPHATIDYLINOSITOL_3_5_BISPHOSPHATE_3_PHOSPHATASE_ACTIVITY, GOMF_PHOSPHATIDYLINOSITOL_3_5_BISPHOSPHATE_3_PHOSPHATASE_ACTIVITY
                                                                                                                            GOBP_SUPEROXIDE_ANION_GENERATION, GOBP_SUPEROXIDE_ANION_GENERATION
                                                                                                                            HP_HAND_MUSCLE_WEAKNESS, HP_HAND_MUSCLE_WEAKNESS
                                                                                                                            GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_10_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_10_PRODUCTION
                                                                                                                            REACTOME_STAT5_ACTIVATION_DOWNSTREAM_OF_FLT3_ITD_MUTANTS, REACTOME_STAT5_ACTIVATION_DOWNSTREAM_OF_FLT3_ITD_MUTANTS
                                                                                                                            GOBP POSITIVE REGULATION OF MAST CELL ACTIVATION INVOLVED IN IMMUNE RESPONSE, GOBP POSITIVE REGULATION OF MAST CELL ACTIVATION INVOLVED IN
                                                                                                                            NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_DN, NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_DN
                                                                                                                            GOBP_BILE_ACID_BIOSYNTHETIC_PROCESS, GOBP_BILE_ACID_BIOSYNTHETIC_PROCESS
                                                                                                                            HP ORTHOKERATOSIS, HP ORTHOKERATOSIS
                                                                                                                            GOBP_CELLULAR_RESPONSE_TO_EXOGENOUS_DSRNA, GOBP_CELLULAR_RESPONSE_TO_EXOGENOUS_DSRNA
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HP HYPERTENSIVE CRISIS, HP HYPERTENSIVE CRISIS

REACTOME\_ACTIVATION\_OF\_C3\_AND\_C5, REACTOME\_ACTIVATION\_OF\_C3\_AND\_C5

IIZUKA\_LIVER\_CANCER\_PROGRESSION\_G1\_G2\_UP, IIZUKA\_LIVER\_CANCER\_PROGRESSION\_G1\_G2\_UP

GOBP NUCLEOSIDE DIPHOSPHATE CATABOLIC PROCESS, GOBP NUCLEOSIDE DIPHOSPHATE CATABOLIC PROCESS