```
GSE3982_EOSINOPHIL_VS_EFF_MEMORY_CD4_TCELL_UP, GSE3982_EOSINOPHIL_VS_EFF_MEMORY_CD4_TCELL_UP
                                                                                            GSE43955_TGFB_IL6_VS_TGFB_IL6_IL23_TH17_ACT_CD4_TCELL_52H_DN, GSE43955_TGFB_IL6_VS_TGFB_IL6_IL23_TH17_ACT_CD4_TCELL_52H_DN
                                                                                            GSE32901_NAIVE_VS_TH17_ENRICHED_CD4_TCELL_DN, GSE32901_NAIVE_VS_TH17_ENRICHED_CD4_TCELL_DN
                                                                                           GSE7509_DC_VS_MONOCYTE_WITH_FCGRIIB_STIM_DN, GSE7509_DC_VS_MONOCYTE_WITH_FCGRIIB_STIM_DN
                                                                                           GSE37532_WT_VS_PPARG_KO_VISCERAL_ADIPOSE_TISSUE_TCONV_UP, GSE37532_WT_VS_PPARG_KO_VISCERAL_ADIPOSE_TISSUE_TCONV_UP
                                                                                           GSE40068_CXCR5NEG_BCL6NEG_CD4_TCELL_VS_CXCR5POS_BCL6NEG_TFH_DN, GSE40068_CXCR5NEG_BCL6NEG_CD4_TCELL_VS_CXCR5POS_BCL6NEG_TFH_DN
                                                                                           GSE25677_R848_VS_MPL_AND_R848_STIM_BCELL_DN, GSE25677_R848_VS_MPL_AND_R848_STIM_BCELL_DN
                                                                                           GSE29618_BCELL_VS_MONOCYTE_DAY7_FLU_VACCINE_UP, GSE29618_BCELL_VS_MONOCYTE_DAY7_FLU_VACCINE_UP
                                                                                           GSE360_CTRL_VS_B_MALAYI_HIGH_DOSE_MAC_DN, GSE360_CTRL_VS_B_MALAYI_HIGH_DOSE_MAC_DN
                                                                                            MIR5689, MIR5689
                                                                                           WP_TGFBETA_SIGNALING_PATHWAY, WP_TGFBETA_SIGNALING_PATHWAY
                                                                                            GSE25088_CTRL_VS_IL4_AND_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_DN, GSE25088_CTRL_VS_IL4_AND_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_DN
                                                                                            GSE17721_CTRL_VS_POLYIC_12H_BMDC_DN, GSE17721_CTRL_VS_POLYIC_12H_BMDC_DN
                                                                                            MIR5001_3P, MIR5001_3P
                                                                                           MIR4704_3P, MIR4704_3P
                                                                                           MIR3679_3P, MIR3679_3P
                                                                                           MIR12129, MIR12129
                                                                                           OUILLETTE_CLL_13Q14_DELETION_UP, OUILLETTE_CLL_13Q14_DELETION_UP
                                                                                           GSE46242_TH1_VS_ANERGIC_TH1_CD4_TCELL_WITH_EGR2_DELETED_DN, GSE46242_TH1_VS_ANERGIC_TH1_CD4_TCELL_WITH_EGR2_DELETED_DN
                                                                                            GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_UP, GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_UP
                                                                                            MIR4685_3P, MIR4685_3P
                                                                                           MIR4287, MIR4287
                                                                                           GOBP_STEROL_BIOSYNTHETIC_PROCESS, GOBP_STEROL_BIOSYNTHETIC_PROCESS
                                                                                           GSE3982_MAC_VS_NEUTROPHIL_DN, GSE3982_MAC_VS_NEUTROPHIL_DN
                                                                                           MIR1537_5P, MIR1537_5P
                                                                                           GOBP_ALPHA_BETA_T_CELL_ACTIVATION, GOBP_ALPHA_BETA_T_CELL_ACTIVATION
                                                                                           MIR6728_3P, MIR6728_3P
                                                                                           GSE21927_EL4_VS_MCA203_TUMOR_MONOCYTES_DN, GSE21927_EL4_VS_MCA203_TUMOR_MONOCYTES_DN
                                                                                           MIR374A_3P, MIR374A_3P
                                                                                           GOBP_T_CELL_PROLIFERATION, GOBP_T_CELL_PROLIFERATION
                                                                                           STAT3_02, STAT3_02
                                                                                           GSE13411_NAIVE_VS_IGM_MEMORY_BCELL_UP, GSE13411_NAIVE_VS_IGM_MEMORY_BCELL_UP
                                                                                           CYTAGCAAY_UNKNOWN, CYTAGCAAY_UNKNOWN
                                                                                           GOBP_REGULATION_OF_ALPHA_BETA_T_CELL_ACTIVATION, GOBP_REGULATION_OF_ALPHA_BETA_T_CELL_ACTIVATION
                                                                                           CAGCACT_MIR5123P, CAGCACT_MIR5123P
                                                                                           GOBP_REGULATION_OF_PRODUCTION_OF_MOLECULAR_MEDIATOR_OF_IMMUNE_RESPONSE, GOBP_REGULATION_OF_PRODUCTION_OF_MOLECULAR_MEDIATOR_OF_IMMUNE_RESPONSE
                                                                                           SETLUR_PROSTATE_CANCER_TMPRSS2_ERG_FUSION_UP, SETLUR_PROSTATE_CANCER_TMPRSS2_ERG_FUSION_UP
                                                                                           MIR628 3P, MIR628 3P
                                                                                           GOBP_ORGANELLE_MEMBRANE_FUSION, GOBP_ORGANELLE_MEMBRANE_FUSION
                                                                                           WANG_TARGETS_OF_MLL_CBP_FUSION_DN, WANG_TARGETS_OF_MLL_CBP_FUSION_DN
                                                                                           MIR4645 5P, MIR4645 5P
                                                                                           GOBP LYMPHOCYTE ACTIVATION INVOLVED IN IMMUNE RESPONSE, GOBP LYMPHOCYTE ACTIVATION INVOLVED IN IMMUNE RESPONSE
                                                                                           MIR8073, MIR8073
                                                                                           GSE16385_IL4_VS_ROSIGLITAZONE_STIM_MACROPHAGE_DN, GSE16385_IL4_VS_ROSIGLITAZONE_STIM_MACROPHAGE_DN
                                                                                           GSE32901_TH1_VS_TH17_NEG_CD4_TCELL_UP, GSE32901_TH1_VS_TH17_NEG_CD4_TCELL_UP
                                                                                           ROESSLER_LIVER_CANCER_METASTASIS_UP, ROESSLER_LIVER_CANCER_METASTASIS_UP
                                                                                           GOBP_POSITIVE_REGULATION_OF_ALPHA_BETA_T_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_ALPHA_BETA_T_CELL_ACTIVATION
                                                                                           MIR4264, MIR4264
                                                                                           GOBP_REGULATION_OF_CHOLESTEROL_METABOLIC_PROCESS, GOBP_REGULATION_OF_CHOLESTEROL_METABOLIC_PROCESS
                                                                                           GOBP_REGULATION_OF_CHOLESTEROL_BIOSYNTHETIC_PROCESS, GOBP_REGULATION_OF_CHOLESTEROL_BIOSYNTHETIC_PROCESS
                                                                                           GOBP_POSITIVE_REGULATION_OF_LYMPHOCYTE_DIFFERENTIATION, GOBP_POSITIVE_REGULATION_OF_LYMPHOCYTE_DIFFERENTIATION
                                                                                           MIR6759 3P, MIR6759 3P
                                                                                           MIR7978, MIR7978
                                                                                           MIR634, MIR634
                                                                                           MIR4684_3P, MIR4684_3P
                                                                                           GOBP_POSITIVE_REGULATION_OF_COLD_INDUCED_THERMOGENESIS, GOBP_POSITIVE_REGULATION_OF_COLD_INDUCED_THERMOGENESIS
                                                                                           GOBP_REGULATION_OF_ALCOHOL_BIOSYNTHETIC_PROCESS, GOBP_REGULATION_OF_ALCOHOL_BIOSYNTHETIC_PROCESS
                                                                                           GOBP_REGULATION_OF_JUN_KINASE_ACTIVITY, GOBP_REGULATION_OF_JUN_KINASE_ACTIVITY
                                                                                           MIR654 3P, MIR654 3P
                                                                                           MIR4665 5P, MIR4665 5P
                                                                                           GOBP_ALPHA_BETA_T_CELL_DIFFERENTIATION, GOBP_ALPHA_BETA_T_CELL_DIFFERENTIATION
                                                                                           GOBP_POSITIVE_REGULATION_OF_T_CELL_PROLIFERATION, GOBP_POSITIVE_REGULATION_OF_T_CELL_PROLIFERATION
                                                                                           HP_HEMIANOPIA, HP_HEMIANOPIA
                                                                                           MIR7847_3P, MIR7847_3P
                                                                                           GOBP_POSITIVE_REGULATION_OF_ALPHA_BETA_T_CELL_DIFFERENTIATION, GOBP_POSITIVE_REGULATION_OF_ALPHA_BETA_T_CELL_DIFFERENTIATION
                                                                                           GOBP_REGULATION_OF_ALPHA_BETA_T_CELL_DIFFERENTIATION, GOBP_REGULATION_OF_ALPHA_BETA_T_CELL_DIFFERENTIATION
                                                                                           GOBP_POSITIVE_REGULATION_OF_JUN_KINASE_ACTIVITY, GOBP_POSITIVE_REGULATION_OF_JUN_KINASE_ACTIVITY
                                                                                           HP_APLASIA_HYPOPLASIA_OF_METATARSAL_BONES, HP_APLASIA_HYPOPLASIA_OF_METATARSAL_BONES
                                                                                           TAGAACC MIR182, TAGAACC MIR182
                                                                                           GOBP_CD4_POSITIVE_ALPHA_BETA_T_CELL_DIFFERENTIATION, GOBP_CD4_POSITIVE_ALPHA_BETA_T_CELL_DIFFERENTIATION
                                                                                           JOHNSTONE_PARVB_TARGETS_1_DN, JOHNSTONE_PARVB_TARGETS_1_DN
                                                                                           GSE37301_COMMON_LYMPHOID_PROGENITOR_VS_PRO_BCELL_UP, GSE37301_COMMON_LYMPHOID_PROGENITOR_VS_PRO_BCELL_UP
                                                                                           GOMF_ACTIVATING_TRANSCRIPTION_FACTOR_BINDING, GOMF_ACTIVATING_TRANSCRIPTION_FACTOR_BINDING
                                                                                           HP_ABNORMAL_ERYTHROCYTE_SEDIMENTATION_RATE, HP_ABNORMAL_ERYTHROCYTE_SEDIMENTATION_RATE
                                                                                           REN_ALVEOLAR_RHABDOMYOSARCOMA_UP, REN_ALVEOLAR_RHABDOMYOSARCOMA_UP
                                                                                           HP_ARNOLD_CHIARI_MALFORMATION, HP_ARNOLD_CHIARI_MALFORMATION
                                                                                           MIR934, MIR934
                                                                                           YBX1_TARGET_GENES, YBX1_TARGET_GENES
                                                                                           GOBP_CARDIAC_SEPTUM_DEVELOPMENT, GOBP_CARDIAC_SEPTUM_DEVELOPMENT
                                                                                           PID_ARF6_PATHWAY, PID_ARF6_PATHWAY
                                                                                           FALVELLA_SMOKERS_WITH_LUNG_CANCER, FALVELLA_SMOKERS_WITH_LUNG_CANCER
                                                                                           MIR4633 3P MIR6500 5P, MIR4633 3P MIR6500 5P
                                                                                           MIR644A, MIR644A
                                                                                           MIR3620 5P, MIR3620 5P
                                                                                           GSE19888_CTRL_VS_A3R_ACTIVATION_MAST_CELL_DN, GSE19888_CTRL_VS_A3R_ACTIVATION_MAST_CELL_DN
                                                                                           GOBP_VENTRICULAR_SEPTUM_DEVELOPMENT, GOBP_VENTRICULAR_SEPTUM_DEVELOPMENT
                                                                                           HP_ABNORMALITY_OF_THE_THORACIC_CAVITY, HP_ABNORMALITY_OF_THE_THORACIC_CAVITY
                                                                                           WP_CANONICAL_AND_NONCANONICAL_TGFB_SIGNALING, WP_CANONICAL_AND_NONCANONICAL_TGFB_SIGNALING
                                                                                           MIR1587, MIR1587
                                                                                           GOBP_CARDIAC_VENTRICLE_DEVELOPMENT, GOBP_CARDIAC_VENTRICLE_DEVELOPMENT
                                                                                           HP_AUTOIMMUNE_ANTIBODY_POSITIVITY, HP_AUTOIMMUNE_ANTIBODY_POSITIVITY
                                                                                           GOMF_MITOGEN_ACTIVATED_PROTEIN_KINASE_BINDING, GOMF_MITOGEN_ACTIVATED_PROTEIN_KINASE_BINDING
                                                                                           AMIT_DELAYED_EARLY_GENES, AMIT_DELAYED_EARLY_GENES
                                                                                           GOBP_POSITIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION
                                                                                           MIR626, MIR626
                                                                                           MIR556 5P, MIR556 5P
                                                                                           MIR6876 3P, MIR6876 3P
                                                                                           GOBP_ODONTOGENESIS_OF_DENTIN_CONTAINING_TOOTH, GOBP_ODONTOGENESIS_OF_DENTIN_CONTAINING_TOOTH
                                                                                           HP_ABNORMALITY_OF_THE_DISTAL_PHALANX_OF_THE_THUMB, HP_ABNORMALITY_OF_THE_DISTAL_PHALANX_OF_THE_THUMB
                                                                                           HP_WRIST_FLEXION_CONTRACTURE, HP_WRIST_FLEXION_CONTRACTURE
                                                                                           HP_ACUTE_PHASE_RESPONSE, HP_ACUTE_PHASE_RESPONSE
                                                                                           MIR3158_3P, MIR3158_3P
                                                                                           GOBP ENDODERM DEVELOPMENT, GOBP ENDODERM DEVELOPMENT
                                                                                           GOBP_MONOCARBOXYLIC_ACID_TRANSPORT, GOBP_MONOCARBOXYLIC_ACID_TRANSPORT
                                                                                           GOBP_LYMPH_VESSEL_DEVELOPMENT, GOBP_LYMPH_VESSEL_DEVELOPMENT
                                                                                           GOBP_PATHWAY_RESTRICTED_SMAD_PROTEIN_PHOSPHORYLATION, GOBP_PATHWAY_RESTRICTED_SMAD_PROTEIN_PHOSPHORYLATION
                                                                                           GOBP_MODIFIED_AMINO_ACID_TRANSPORT, GOBP_MODIFIED_AMINO_ACID_TRANSPORT
                                                                                           GOBP_CHEMOKINE_PRODUCTION, GOBP_CHEMOKINE_PRODUCTION
                                                                                           HP_CEREBRAL_PALSY, HP_CEREBRAL_PALSY
                                                                                           HP_ABNORMALITY_OF_THE_ANTIHELIX, HP_ABNORMALITY_OF_THE_ANTIHELIX
                                                                                           GOBP_POSITIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_DIFFERENTIATION, GOBP_POSITIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_DIFFERENTIATION
                                                                                           HP_RETINAL_DETACHMENT, HP_RETINAL_DETACHMENT
                                                                                           GOBP_MONOAMINE_TRANSPORT, GOBP_MONOAMINE_TRANSPORT
                                                                                           GOBP_REGULATION_OF_MYELOID_LEUKOCYTE_MEDIATED_IMMUNITY, GOBP_REGULATION_OF_MYELOID_LEUKOCYTE_MEDIATED_IMMUNITY
                                                                                           VANASSE_BCL2_TARGETS_UP, VANASSE_BCL2_TARGETS_UP
                                                                                           NAKAYA_PBMC_FLUMIST_AGE_18_50YO_3DY_IFN_SUBSET_UP, NAKAYA_PBMC_FLUMIST_AGE_18_50YO_3DY_IFN_SUBSET_UP
                                                                                           GOBP_ACTIVATION_OF_NF_KAPPAB_INDUCING_KINASE_ACTIVITY, GOBP_ACTIVATION_OF_NF_KAPPAB_INDUCING_KINASE_ACTIVITY
                                                                                           HP_IMPAIRED_MASTICATION, HP_IMPAIRED_MASTICATION
                                                                                           IVANOVA_HEMATOPOIESIS_STEM_CELL_SHORT_TERM, IVANOVA_HEMATOPOIESIS_STEM_CELL_SHORT_TERM
                                                                                           GNCF_01, GNCF_01
                                                                                           GOBP_MODULATION_BY_SYMBIONT_OF_ENTRY_INTO_HOST, GOBP_MODULATION_BY_SYMBIONT_OF_ENTRY_INTO_HOST
                                                                                           GOCC_DENDRITIC_SHAFT, GOCC_DENDRITIC_SHAFT
                                                                                           GOBP_MAST_CELL_ACTIVATION, GOBP_MAST_CELL_ACTIVATION
                                                                                           WANG_METASTASIS_OF_BREAST_CANCER_ESR1_DN, WANG_METASTASIS_OF_BREAST_CANCER_ESR1_DN
                                                                                           HP_URETERAL_OBSTRUCTION, HP_URETERAL_OBSTRUCTION
                                                                                           MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_27, MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_27
                                                                                           GOBP_POSITIVE_REGULATION_OF_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY, GOBP_POSITIVE_REGULATION_OF_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY
                                                                                           NIKOLSKY_OVERCONNECTED_IN_BREAST_CANCER, NIKOLSKY_OVERCONNECTED_IN_BREAST_CANCER
                                                                                           MATZUK_SPERMATOGONIA, MATZUK_SPERMATOGONIA
                                                                                           MODULE 511, MODULE 511
                                                                                          GOBP_POSITIVE_REGULATION_OF_PATHWAY_RESTRICTED_SMAD_PROTEIN_PHOSPHORYLATION, GOBP_POSITIVE_REGULATION OF PATHWAY RESTRICTED SMAD PROTEIN PHOSPHORYLATION
                                                                                         GOBP_POSITIVE_REGULATION_OF_MAST_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_MAST_CELL_ACTIVATION
                                                                                           BIOCARTA_TGFB_PATHWAY, BIOCARTA_TGFB_PATHWAY
                                                                                           GOBP_POSITIVE_REGULATION_OF_TRANSFORMING_GROWTH_FACTOR_BETA_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_TRANSFORMING_GROWTH_FACTOR_BETA_PRODUCTION
                                                                                           GOBP_REGULATION_OF_CHROMATIN_ASSEMBLY_OR_DISASSEMBLY, GOBP_REGULATION_OF_CHROMATIN_ASSEMBLY_OR_DISASSEMBLY
                                                                                           GSE9946_LISTERIA_INF_MATURE_VS_PROSTAGLANDINE2_TREATED_MATURE_DC_DN, GSE9946_LISTERIA_INF_MATURE_VS_PROSTAGLANDINE2_TREATED_MATURE_DC_DN
                                                                                            GOBP_MAST_CELL_ACTIVATION_INVOLVED_IN_IMMUNE_RESPONSE, GOBP_MAST_CELL_ACTIVATION_INVOLVED_IN_IMMUNE_RESPONSE
                                                                                           BIOCARTA_GCR_PATHWAY, BIOCARTA_GCR_PATHWAY
                                                                                            HP_JOINT_SWELLING, HP_JOINT_SWELLING
                                                                                            GOBP_DNA_METHYLATION_DEPENDENT_HETEROCHROMATIN_ASSEMBLY, GOBP_DNA_METHYLATION_DEPENDENT_HETEROCHROMATIN_ASSEMBLY
                                                                                            GOBP_PHOSPHATIDYLCHOLINE_ACYL_CHAIN_REMODELING, GOBP_PHOSPHATIDYLCHOLINE_ACYL_CHAIN_REMODELING
                                                                                            HP_PROTRACTED_DIARRHEA, HP_PROTRACTED_DIARRHEA
                                                                                           MIR323A_5P, MIR323A_5P
                                                                                            TOMLINS_METASTASIS_UP, TOMLINS_METASTASIS_UP
                                                                                           GOBP_SUBSTRATE_DEPENDENT_CELL_MIGRATION_CELL_EXTENSION, GOBP_SUBSTRATE_DEPENDENT_CELL_MIGRATION_CELL_EXTENSION
                                                                                           GOBP_REGULATION_OF_POSTSYNAPTIC_MEMBRANE_NEUROTRANSMITTER_RECEPTOR_LEVELS, GOBP_REGULATION_OF_POSTSYNAPTIC_MEMBRANE_NEUROTRANSMITTER_RECEPTOR_LEVELS
_DAY7_FLU_VACCINE_PDC_DN, GSE29618_PRE_VS_DAY7_FLU_VACCINE_PDC_DN
                                                                                           · HP_LIMITATION_OF_KNEE_MOBILITY, HP_LIMITATION_OF_KNEE_MOBILITY
                                                                                            HP_PROMINENT_ANTIHELIX, HP_PROMINENT_ANTIHELIX
                                                                                            HP_AORTIC_DISSECTION, HP_AORTIC_DISSECTION
                                                                                           GOBP_REGULATION_OF_MAST_CELL_ACTIVATION, GOBP_REGULATION_OF_MAST_CELL_ACTIVATION
                                                                                            GOBP_POSITIVE_REGULATION_OF_T_HELPER_CELL_DIFFERENTIATION, GOBP_POSITIVE_REGULATION_OF_T_HELPER_CELL_DIFFERENTIATION
                                                                                            GOCC_DEATH_INDUCING_SIGNALING_COMPLEX, GOCC_DEATH_INDUCING_SIGNALING_COMPLEX
                                                                                            HP_POLYARTICULAR_ARTHROPATHY, HP_POLYARTICULAR_ARTHROPATHY
                                                                                            KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_DN, KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_DN
                                                                                            GHANDHI_DIRECT_IRRADIATION_DN, GHANDHI_DIRECT_IRRADIATION_DN
                                                                                            GOBP_REGULATION_OF_CHROMATIN_ASSEMBLY, GOBP_REGULATION_OF_CHROMATIN_ASSEMBLY
                                                                                            REACTOME_FLT3_SIGNALING_THROUGH_SRC_FAMILY_KINASES, REACTOME_FLT3_SIGNALING_THROUGH_SRC_FAMILY_KINASES
                                                                                            GOBP_REGULATION_OF_PROTEIN_KINASE_A_SIGNALING, GOBP_REGULATION_OF_PROTEIN_KINASE_A_SIGNALING
                                                                                           HP_ABNORMAL_QT_INTERVAL, HP_ABNORMAL_QT_INTERVAL
                                                                                           HP_ABNORMAL_C_REACTIVE_PROTEIN_LEVEL, HP_ABNORMAL_C_REACTIVE_PROTEIN_LEVEL
                                                                                           MIR7108_3P, MIR7108_3P
                                                                                           GOBP_DIGESTIVE_SYSTEM_PROCESS, GOBP_DIGESTIVE_SYSTEM_PROCESS
                                                                                           GOBP_REGULATION_OF_NK_T_CELL_ACTIVATION, GOBP_REGULATION_OF_NK_T_CELL_ACTIVATION
                                                                                           TESAR_ALK_TARGETS_EPISC_3D_UP, TESAR_ALK_TARGETS_EPISC_3D_UP
                                                                                           GOBP_NEGATIVE_REGULATION_OF_PATHWAY_RESTRICTED_SMAD_PROTEIN_PHOSPHORYLATION, GOBP_NEGATIVE_REGULATION_OF_PATHWAY_RESTRICTED_SMAD_PROTEIN_PHOSPHORYLATION
                                                                                           HP_ABNORMAL_RIGHT_VENTRICULAR_FUNCTION, HP_ABNORMAL_RIGHT_VENTRICULAR_FUNCTION
                                                                                           REACTOME_AMINE_LIGAND_BINDING_RECEPTORS, REACTOME_AMINE_LIGAND_BINDING_RECEPTORS
                                                                                           HP_RHEUMATOID_FACTOR_POSITIVE, HP_RHEUMATOID_FACTOR_POSITIVE
                                                                                           HP_PIERRE_ROBIN_SEQUENCE, HP_PIERRE_ROBIN_SEQUENCE
                                                                                           GOBP_VERY_LOW_DENSITY_LIPOPROTEIN_PARTICLE_CLEARANCE, GOBP_VERY_LOW_DENSITY_LIPOPROTEIN_PARTICLE_CLEARANCE
                                                                                           GOBP_NEGATIVE_REGULATION_OF_SYSTEMIC_ARTERIAL_BLOOD_PRESSURE, GOBP_NEGATIVE_REGULATION_OF_SYSTEMIC_ARTERIAL_BLOOD_PRESSURE
                                                                                           GOBP_REGULATION_OF_NEUTROPHIL_ACTIVATION, GOBP_REGULATION_OF_NEUTROPHIL_ACTIVATION
                                                                                           HP_ABDOMINAL_AORTIC_ANEURYSM, HP_ABDOMINAL_AORTIC_ANEURYSM
                                                                                           GOBP_DOPAMINE_TRANSPORT, GOBP_DOPAMINE_TRANSPORT
                                                                                           GNF2_RAB3A, GNF2_RAB3A
                                                                                           GOBP_CELLULAR_RESPONSE_TO_MURAMYL_DIPEPTIDE, GOBP_CELLULAR_RESPONSE_TO_MURAMYL_DIPEPTIDE
                                                                                           WP_GABA_RECEPTOR_SIGNALING, WP_GABA_RECEPTOR_SIGNALING
                                                                                           HP_PROSTATITIS, HP_PROSTATITIS
                                                                                           GOCC_CELL_BODY_FIBER, GOCC_CELL_BODY_FIBER
                                                                                           GOBP_CATECHOLAMINE_UPTAKE_INVOLVED_IN_SYNAPTIC_TRANSMISSION, GOBP_CATECHOLAMINE_UPTAKE_INVOLVED_IN_SYNAPTIC_TRANSMISSION
                                                                                           MIR4442, MIR4442
                                                                                           HP_RECURRENT_KLEBSIELLA_INFECTIONS, HP_RECURRENT_KLEBSIELLA_INFECTIONS
                                                                                           GOBP_NEGATIVE_REGULATION_OF_MAST_CELL_ACTIVATION_INVOLVED_IN_IMMUNE_RESPONSE, GOBP_NEGATIVE_REGULATION_OF_MAST_CELL_ACTIVATION_INVOLVED_IN_IMMUNE_RESPONSE
                                                                                           GOBP_PHARYNGEAL_ARCH_ARTERY_MORPHOGENESIS, GOBP_PHARYNGEAL_ARCH_ARTERY_MORPHOGENESIS
                                                                                           GOBP_REGULATION_OF_CATECHOLAMINE_UPTAKE_INVOLVED_IN_SYNAPTIC_TRANSMISSION, GOBP_REGULATION_OF_CATECHOLAMINE_UPTAKE_INVOLVED_IN_SYNAPTIC_TRANSMISSION
                                                                                           GOMF_TRANSFORMING_GROWTH_FACTOR_BETA_ACTIVATED_RECEPTOR_ACTIVITY, GOMF_TRANSFORMING_GROWTH_FACTOR_BETA_ACTIVATED_RECEPTOR_ACTIVITY
                                                                                            GOMF CATECHOLAMINE BINDING, GOMF CATECHOLAMINE BINDING
                                                                                           GOCC_SPANNING_COMPONENT_OF_PLASMA_MEMBRANE, GOCC_SPANNING_COMPONENT_OF_PLASMA_MEMBRANE
                                                                                           MIR615_3P, MIR615_3P
                                                                                            TESAR_ALK_TARGETS_EPISC_4D_UP, TESAR_ALK_TARGETS_EPISC_4D_UP
                                                                                           GOBP_POSITIVE_REGULATION_OF_LEUKOCYTE_DEGRANULATION, GOBP_POSITIVE_REGULATION_OF_LEUKOCYTE_DEGRANULATION
                                                                                           HP_VIRAL_HEPATITIS, HP_VIRAL_HEPATITIS
                                                                                           REACTOME_ACYL_CHAIN_REMODELLING_OF_PC, REACTOME_ACYL_CHAIN_REMODELLING_OF_PC
                                                                                           HP IRREGULAR MENSTRUATION, HP IRREGULAR MENSTRUATION
                                                                                           HP_ACUTE_OTITIS_MEDIA, HP_ACUTE_OTITIS_MEDIA
                                                                                           HP_DECREASED_ACTIVITY_OF_NADPH_OXIDASE, HP_DECREASED_ACTIVITY_OF_NADPH_OXIDASE
                                                                                           HP_CHRONIC_LYMPHOCYTIC_MENINGITIS, HP_CHRONIC_LYMPHOCYTIC_MENINGITIS
                                                                                           HP_ABNORMAL_CIRCULATING_BETA_GLOBULIN_LEVEL, HP_ABNORMAL_CIRCULATING_BETA_GLOBULIN_LEVEL
                                                                                           GOBP_RESPONSE_TO_MOLECULE_OF_FUNGAL_ORIGIN, GOBP_RESPONSE_TO_MOLECULE_OF_FUNGAL_ORIGIN
                                                                                           GOBP_DORSAL_ROOT_GANGLION_DEVELOPMENT, GOBP_DORSAL_ROOT_GANGLION_DEVELOPMENT
                                                                                           GOMF_HISTONE_METHYLTRANSFERASE_ACTIVITY_H4_K20_SPECIFIC, GOMF_HISTONE_METHYLTRANSFERASE_ACTIVITY_H4_K20_SPECIFIC
                                                                                           GOBP_BEHAVIORAL_RESPONSE_TO_COCAINE, GOBP_BEHAVIORAL_RESPONSE_TO_COCAINE
                                                                                           REACTOME_ACYL_CHAIN_REMODELLING_OF_PE, REACTOME_ACYL_CHAIN_REMODELLING_OF_PE
                                                                                           GOMF_ADRENERGIC_RECEPTOR_ACTIVITY, GOMF_ADRENERGIC_RECEPTOR_ACTIVITY
                                                                                           REACTOME_ADRENOCEPTORS, REACTOME_ADRENOCEPTORS
                                                                                           GOBP_NEGATIVE_REGULATION_OF_T_HELPER_1_TYPE_IMMUNE_RESPONSE, GOBP_NEGATIVE_REGULATION_OF_T_HELPER_1_TYPE_IMMUNE_RESPONSE
                                                                                           GOBP_POSITIVE_REGULATION_OF_NK_T_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_NK_T_CELL_ACTIVATION
                                                                                           GOMF_GALACTOSIDE_BINDING, GOMF_GALACTOSIDE_BINDING
                                                                                           HP_MALAR_RASH, HP_MALAR_RASH
                                                                                           HP_RECURRENT_PHARYNGITIS, HP_RECURRENT_PHARYNGITIS
                                                                                           GOBP_REGULATION_OF_NEUTROPHIL_DEGRANULATION, GOBP_REGULATION_OF_NEUTROPHIL_DEGRANULATION
                                                                                           HP_CUTANEOUS_ANERGY, HP_CUTANEOUS_ANERGY
                                                                                           GOCC_CD95_DEATH_INDUCING_SIGNALING_COMPLEX, GOCC_CD95_DEATH_INDUCING_SIGNALING_COMPLEX
                                                                                           GOMF_11_CIS_RETINAL_BINDING, GOMF_11_CIS_RETINAL_BINDING
                                                                                           REACTOME_VLDL_CLEARANCE, REACTOME_VLDL_CLEARANCE
                                                                                           GOBP_ARACHIDONIC_ACID_SECRETION, GOBP_ARACHIDONIC_ACID_SECRETION
                                                                                           HP_HEMIPLEGIA, HP_HEMIPLEGIA
                                                                                           GOBP_RESPONSE_TO_UV_A, GOBP_RESPONSE_TO_UV_A
                                                                                           GOBP PHOSPHATIDYLSERINE ACYL CHAIN REMODELING, GOBP PHOSPHATIDYLSERINE ACYL CHAIN REMODELING
                                                                                           REACTOME_ACYL_CHAIN_REMODELLING_OF_PS, REACTOME_ACYL_CHAIN_REMODELLING_OF_PS
                                                                                           MALIK_REPRESSED_BY_ESTROGEN, MALIK_REPRESSED_BY_ESTROGEN
                                                                                            GOBP_CELL_PROLIFERATION_IN_HINDBRAIN, GOBP_CELL_PROLIFERATION_IN_HINDBRAIN
                                                                                           GOBP_REGULATION_OF_T_HELPER_2_CELL_DIFFERENTIATION, GOBP_REGULATION_OF_T_HELPER_2_CELL_DIFFERENTIATION
                                                                                           GOBP_REGULATION_OF_SKELETAL_MUSCLE_FIBER_DEVELOPMENT, GOBP_REGULATION_OF_SKELETAL_MUSCLE_FIBER_DEVELOPMENT
                                                                                           BIOCARTA_IL4_PATHWAY, BIOCARTA_IL4_PATHWAY
                                                                                           HOEGERKORP_CD44_TARGETS_TEMPORAL_DN, HOEGERKORP_CD44_TARGETS_TEMPORAL_DN
                                                                                           GOBP_PANCREATIC_JUICE_SECRETION, GOBP_PANCREATIC_JUICE_SECRETION
                                                                                           GOBP_REGULATION_OF_SYSTEMIC_ARTERIAL_BLOOD_PRESSURE_BY_NOREPINEPHRINE_EPINEPHRINE, GOBP_REGULATION_OF_SYSTEMIC_ARTERIAL_BLOOD_PRESSURE_BY_NOREPINEPHRINE_EPINEPHRINE
                                                                                           GOBP_REGULATION_OF_INTESTINAL_CHOLESTEROL_ABSORPTION, GOBP_REGULATION_OF_INTESTINAL_CHOLESTEROL_ABSORPTION
                                                                                           GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_DN, GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_DN
                                                                                           GOMF_CORECEPTOR_ACTIVITY_INVOLVED_IN_WNT_SIGNALING_PATHWAY, GOMF_CORECEPTOR_ACTIVITY_INVOLVED_IN_WNT_SIGNALING_PATHWAY
                                                                                           GOBP_ACYLGLYCEROL_TRANSPORT, GOBP_ACYLGLYCEROL_TRANSPORT
                                                                                           HP_DISCOID_LUPUS_RASH, HP_DISCOID_LUPUS_RASH
                                                                                           WEINBERGER_BLOOD_TWINRIX_AGE_20_40_AND_60_84YO_CORRELATED_WITH_HIGH_ANTI_HBS_CONC_AT_WEEK_30_PRIMARY_VACC_1DY_POSITIVE, WEINBERGER_BRIMARY_POSITIVE, WEINBERGER_BRIMARY
                                                                                           GOBP_REGULATION_OF_T_HELPER_1_CELL_DIFFERENTIATION, GOBP_REGULATION_OF_T_HELPER_1_CELL_DIFFERENTIATION
                                                                                           GOBP_INTESTINAL_LIPID_ABSORPTION, GOBP_INTESTINAL_LIPID_ABSORPTION
                                                                                           GOBP_CATECHOLAMINE_UPTAKE, GOBP_CATECHOLAMINE_UPTAKE
                                                                                           GOBP_NEUROTRANSMITTER_RECEPTOR_TRANSPORT, GOBP_NEUROTRANSMITTER_RECEPTOR_TRANSPORT
                                                                                           REACTOME_PEPTIDE_HORMONE_BIOSYNTHESIS, REACTOME_PEPTIDE_HORMONE_BIOSYNTHESIS
                                                                                           GOBP_CORONARY_VASCULATURE_DEVELOPMENT, GOBP_CORONARY_VASCULATURE_DEVELOPMENT
                                                                                           HP_CHRONIC_HEPATITIS_DUE_TO_CRYPTOSPORIDIUM_INFECTION, HP_CHRONIC_HEPATITIS_DUE_TO_CRYPTOSPORIDIUM_INFECTION
                                                                                           GOBP_REGULATION_OF_PHOSPHATIDYLINOSITOL_BIOSYNTHETIC_PROCESS, GOBP_REGULATION_OF_PHOSPHATIDYLINOSITOL_BIOSYNTHETIC_PROCESS
                                                                                           LI_WILMS_TUMOR_ANAPLASTIC_DN, LI_WILMS_TUMOR_ANAPLASTIC_DN
                                                                                           HP_RECURRENT_ASPERGILLUS_INFECTIONS, HP_RECURRENT_ASPERGILLUS_INFECTIONS
                                                                                           GOBP_REGULATION_OF_CD4_POSITIVE_CD25_POSITIVE_ALPHA_BETA_REGULATORY_T_CELL_DIFFERENTIATION, GOBP_REGULATION_OF_CD4_POSITIVE_CD25_POSITIVE_ALPHA_BETA_REGULATORY_T_CELL_DIFFERENTIATION
                                                                                           GOBP_POSITIVE_REGULATION_OF_CELLULAR_RESPIRATION, GOBP_POSITIVE_REGULATION_OF_CELLULAR_RESPIRATION
                                                                                           TESAR_ALK_AND_JAK_TARGETS_MOUSE_ES_D4_UP, TESAR_ALK_AND_JAK_TARGETS_MOUSE_ES_D4_UP
                                                                                           HP_INTERPHALANGEAL_JOINT_EROSIONS, HP_INTERPHALANGEAL_JOINT_EROSIONS
                                                                                           GOBP_MHC_CLASS_I_BIOSYNTHETIC_PROCESS, GOBP_MHC_CLASS_I_BIOSYNTHETIC_PROCESS
                                                                                           GOBP_POSITIVE_REGULATION_OF_AMPA_RECEPTOR_ACTIVITY, GOBP_POSITIVE_REGULATION_OF_AMPA_RECEPTOR_ACTIVITY
                                                                                           GOMF_1_PHOSPHATIDYLINOSITOL_4_PHOSPHATE_5_KINASE_ACTIVITY, GOMF_1_PHOSPHATIDYLINOSITOL_4_PHOSPHATE_5_KINASE_ACTIVITY
                                                                                           HP_SWAN_NECK_LIKE_DEFORMITIES_OF_THE_FINGERS, HP_SWAN_NECK_LIKE_DEFORMITIES_OF_THE_FINGERS
                                                                                           GOBP_CD4_POSITIVE_CD25_POSITIVE_ALPHA_BETA_REGULATORY_T_CELL_DIFFERENTIATION, GOBP_CD4_POSITIVE_CD25_POSITIVE_ALPHA_BETA_REGULATORY_T_CELL_DIFFERENTIATION
                                                                                           HP_ASCENDING_AORTIC_DISSECTION, HP_ASCENDING_AORTIC_DISSECTION
                                                                                           GOBP_SEROTONIN_SECRETION, GOBP_SEROTONIN_SECRETION
                                                                                           HP_INCREASED_PULMONARY_VASCULAR_RESISTANCE, HP_INCREASED_PULMONARY_VASCULAR_RESISTANCE
                                                                                           HP_CHIN_WITH_HORIZONTAL_CREASE, HP_CHIN_WITH_HORIZONTAL_CREASE
                                                                                           GOBP_NEGATIVE_REGULATION_OF_MAST_CELL_DEGRANULATION, GOBP_NEGATIVE_REGULATION_OF_MAST_CELL_DEGRANULATION
                                                                                           WP_TFS_REGULATE_MIRNAS_RELATED_TO_CARDIAC_HYPERTROPHY, WP_TFS_REGULATE_MIRNAS_RELATED_TO_CARDIAC_HYPERTROPHY
                                                                                           HP_SCLEROSING_CHOLANGITIS, HP_SCLEROSING_CHOLANGITIS
                                                                                           GOBP_REGULATION_OF_ARACHIDONIC_ACID_SECRETION, GOBP_REGULATION_OF_ARACHIDONIC_ACID_SECRETION
                                                                                           GOMF_CORECEPTOR_ACTIVITY_INVOLVED_IN_WNT_SIGNALING_PATHWAY_PLANAR_CELL_POLARITY_PATHWAY, GOMF_CORECEPTOR_ACTIVITY_INVOLVED_IN_WNT_SIGNALING_PATHWAY_PLANAR_CELL_POLARITY_PATHWAY
                                                                                           GOBP_PHOSPHATIDYLETHANOLAMINE_ACYL_CHAIN_REMODELING, GOBP_PHOSPHATIDYLETHANOLAMINE_ACYL_CHAIN_REMODELING
                                                                                           GOCC_LOW_DENSITY_LIPOPROTEIN_PARTICLE, GOCC_LOW_DENSITY_LIPOPROTEIN_PARTICLE
                                                                                           HP_ECZEMATOID_DERMATITIS, HP_ECZEMATOID_DERMATITIS
                                                                                           GOBP_REGULATION_OF_MAST_CELL_ACTIVATION_INVOLVED_IN_IMMUNE_RESPONSE, GOBP_REGULATION_OF_MAST_CELL_ACTIVATION_INVOLVED_IN_IMMUNE_RESPONSE
                                                                                           HP_HEMOPTYSIS, HP_HEMOPTYSIS
                                                                                           REACTOME_OPSINS, REACTOME_OPSINS
                                                                                           HP_ABNORMALITY_OF_FOVEAL_PIGMENTATION, HP_ABNORMALITY_OF_FOVEAL_PIGMENTATION
                                                                                           GOBP_URINARY_TRACT_SMOOTH_MUSCLE_CONTRACTION, GOBP_URINARY_TRACT_SMOOTH_MUSCLE_CONTRACTION
                                                                                           GOBP_POSITIVE_REGULATION_OF_T_HELPER_2_CELL_DIFFERENTIATION, GOBP_POSITIVE_REGULATION_OF_T_HELPER_2_CELL_DIFFERENTIATION
                                                                                           WP_MONOAMINE_GPCRS, WP_MONOAMINE_GPCRS
                                                                                           chr12q22, chr12q22
                                                                                           GOBP ATRIAL_SEPTUM_MORPHOGENESIS, GOBP_ATRIAL_SEPTUM_MORPHOGENESIS
                                                                                           GOBP_CARDIAC_ATRIUM_MORPHOGENESIS, GOBP_CARDIAC_ATRIUM_MORPHOGENESIS
                                                                                           GOBP_ATRIAL_SEPTUM_DEVELOPMENT, GOBP_ATRIAL_SEPTUM_DEVELOPMENT
                                                                                           GOBP_URINARY_BLADDER_SMOOTH_MUSCLE_CONTRACTION, GOBP_URINARY_BLADDER_SMOOTH_MUSCLE_CONTRACTION
                                                                                           GOBP_LUNG_ASSOCIATED_MESENCHYME_DEVELOPMENT, GOBP_LUNG_ASSOCIATED_MESENCHYME_DEVELOPMENT
                                                                                           GOBP_RECEPTOR_LOCALIZATION_TO_NON_MOTILE_CILIUM, GOBP_RECEPTOR_LOCALIZATION_TO_NON_MOTILE_CILIUM
                                                                                           GOBP_TRICUSPID_VALVE_MORPHOGENESIS, GOBP_TRICUSPID_VALVE_MORPHOGENESIS
                                                                                           GOBP_REGULATION_OF_LUNG_BLOOD_PRESSURE, GOBP_REGULATION_OF_LUNG_BLOOD_PRESSURE
                                                                                           GOCC_SUPER_ELONGATION_COMPLEX, GOCC_SUPER_ELONGATION_COMPLEX
                                                                                            HP_SMALL_PITUITARY_GLAND, HP_SMALL_PITUITARY_GLAND
                                                                                           GOCC_CHYLOMICRON, GOCC_CHYLOMICRON
                                                                                           GOMF_AMINE_BINDING, GOMF_AMINE_BINDING
                                                                                           GOBP_POSITIVE_REGULATION_OF_MHC_CLASS_I_BIOSYNTHETIC_PROCESS, GOBP_POSITIVE_REGULATION_OF_MHC_CLASS_I_BIOSYNTHETIC_PROCESS
                                                                                           GOMF_BMP_RECEPTOR_ACTIVITY, GOMF_BMP_RECEPTOR_ACTIVITY
                                                                                           GOBP_TRICUSPID_VALVE_DEVELOPMENT, GOBP_TRICUSPID_VALVE_DEVELOPMENT
                                                                                            GOCC_TRIGLYCERIDE_RICH_PLASMA_LIPOPROTEIN_PARTICLE, GOCC_TRIGLYCERIDE_RICH_PLASMA_LIPOPROTEIN_PARTICLE
                                                                                            GOBP_RESPONSE_TO_FUNGUS, GOBP_RESPONSE_TO_FUNGUS
                                                                                           HP_ABNORMAL_CELLULAR_COMPOSITION_OF_BRONCHOALVEOLAR_FLUID, HP_ABNORMAL_CELLULAR_COMPOSITION_OF_BRONCHOALVEOLAR_FLUID
                                                                                            REACTOME_SEROTONIN_RECEPTORS, REACTOME_SEROTONIN_RECEPTORS
                                                                                            chr8q23, chr8q23
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GOBP_ICOSANOID_TRANSPORT, GOBP_ICOSANOID_TRANSPORT

GOBP_ICOSANOID_SECRETION, GOBP_ICOSANOID_SECRETION

GOMF_OLIGOSACCHARIDE_BINDING, GOMF_OLIGOSACCHARIDE_BINDING

GSE29618_PRE_VS_DAY7_POST_LAIV_FLU_VACCINE_PDC_DN, GSE29618_PRE_VS_DAY7_POST_LAIV_FLU_VACCINE_PDC_DN

GSE29618_PRE_VS_DAY7_POST_TIV_FLU_VACCINE_BCELL_DN, GSE29618_PRE_VS_DAY7_POST_TIV_FLU_VACCINE_BCELL_DN

GSE29618 PRE VS_DAY7_POST_TIV_FLU_VACCINE_PDC_DN, GSE29618_PRE_VS_DAY7_POST_TIV_FLU_VACCINE_PDC_DN

GSE29618_PDC_VS_MDC_DAY7_FLU_VACCINE_UP, GSE29618_PDC_VS_MDC_DAY7_FLU_VACCINE_UP