```
GSE3982_NEUTROPHIL_VS_BCELL_DN, GSE3982_NEUTROPHIL_VS_BCELL_DN
                                                             GSE1112_OT1_VS_HY_CD8AB_THYMOCYTE_RTOC_CULTURE_DN, GSE1112_OT1_VS_HY_CD8AB_THYMOCYTE_RTOC_CULTURE_DN
                                                             GSE20152 SPHK1 KO_VS_WT_HTNFA_OVERXPRESS_ANKLE_DN, GSE20152_SPHK1_KO_VS_WT_HTNFA_OVERXPRESS_ANKLE_DN
                                                             GSE3982_DC_VS_NEUTROPHIL_LPS_STIM_UP, GSE3982_DC_VS_NEUTROPHIL_LPS_STIM_UP
                                                             GSE22886 DAY0_VS_DAY7_MONOCYTE_IN_CULTURE_DN, GSE22886_DAY0_VS_DAY7_MONOCYTE_IN_CULTURE_DN
                                                             GSE3982_EOSINOPHIL_VS_DC_DN, GSE3982_EOSINOPHIL_VS_DC_DN
                                                             GSE1740_MCSF_VS_MCSF_AND_IFNG_DAY2_DERIVED_MACROPHAGE_WITH_IFNA_STIM_UP, GSE1740_MCSF_VS_MCSF_AND_IFNG_DAY2_DERIVED_MACROPHAGE_WITH_IFNA_STIM_UP
                                                             GSE360_CTRL_VS_M_TUBERCULOSIS_DC_UP, GSE360_CTRL_VS_M_TUBERCULOSIS_DC_UP
                                                             GSE29618_PRE_VS_DAY7_FLU_VACCINE_PDC_DN, GSE29618_PRE_VS_DAY7_FLU_VACCINE_PDC_DN
                                                            GSE3982_NEUTROPHIL_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_NEUTROPHIL_VS_CENT_MEMORY_CD4_TCELL_DN
                                                             GSE1791 CTRL VS NEUROMEDINU IN T CELL LINE 12H UP, GSE1791 CTRL VS NEUROMEDINU IN T CELL LINE 12H UP
                                                             GSE3982_MAC_VS_NKCELL_UP, GSE3982_MAC_VS_NKCELL_UP
                                                             GSE14769 20MIN VS 360MIN LPS BMDM UP, GSE14769 20MIN VS 360MIN LPS BMDM UP
                                                             HALLMARK_FATTY_ACID_METABOLISM, HALLMARK_FATTY_ACID_METABOLISM
                                                             GSE3982_DC_VS_NKCELL_UP, GSE3982_DC_VS_NKCELL_UP
                                                             GSE13493_DP_VS_CD8POS_THYMOCYTE_DN, GSE13493_DP_VS_CD8POS_THYMOCYTE_DN
                                                             GSE46606 IRF4 KO VS WT CD40L IL2 IL5 3DAY STIMULATED BCELL UP, GSE46606 IRF4 KO VS WT CD40L IL2 IL5 3DAY STIMULATED BCELL UP
                                                             GSE25123 CTRL VS IL4 STIM MACROPHAGE DN, GSE25123 CTRL VS IL4 STIM MACROPHAGE DN
                                                             GSE3982_EOSINOPHIL_VS_EFF_MEMORY_CD4_TCELL_DN, GSE3982_EOSINOPHIL_VS_EFF_MEMORY_CD4_TCELL_DN
                                                             GSE16385 MONOCYTE VS 12H ROSIGLITAZONE TREATED MACROPHAGE UP, GSE16385 MONOCYTE VS 12H ROSIGLITAZONE TREATED MACROPHAGE UP
                                                             GSE26488_CTRL_VS_PEPTIDE_INJECTION_HDAC7_DELTAP_TG_OT2_THYMOCYTE_DN, GSE26488_CTRL_VS_PEPTIDE_INJECTION_HDAC7_DELTAP_TG_OT2_THYMOCYTE_DN
                                                             GSE3982 DC VS MAC LPS STIM UP, GSE3982 DC VS MAC LPS STIM UP
                                                             GSE26488_WT_VS_HDAC7_DELTAP_TG_OT2_THYMOCYTE_WITH_PEPTIDE_INJECTION_DN, GSE26488_WT_VS_HDAC7_DELTAP_TG_OT2_THYMOCYTE_WITH_PEPTIDE_INJECTION_DN
                                                             GSE23505 IL6 IL1 IL23 VS IL6 IL1 TGFB TREATED CD4 TCELL UP, GSE23505 IL6 IL1 IL23 VS IL6 IL1 TGFB TREATED CD4 TCELL UP
                                                             GSE10325 LUPUS CD4 TCELL VS LUPUS MYELOID UP, GSE10325 LUPUS CD4 TCELL VS LUPUS MYELOID UP
                                                             GSE1925_CTRL_VS_3H_IFNG_STIM_IFNG_PRIMED_MACROPHAGE_UP, GSE1925_CTRL_VS_3H_IFNG_STIM_IFNG_PRIMED_MACROPHAGE_UP
                                                             GSE1112_OT1_VS_HY_CD8AB_THYMOCYTE_RTOC_CULTURE_UP, GSE1112_OT1_VS_HY_CD8AB_THYMOCYTE_RTOC_CULTURE_UP
                                                             GSE360_CTRL_VS_L_MAJOR_DC_UP, GSE360_CTRL_VS_L_MAJOR_DC_UP
                                                             LIU CMYB TARGETS UP, LIU CMYB TARGETS UP
                                                            GSE1460_DP_THYMOCYTE_VS_THYMIC_STROMAL_CELL_DN, GSE1460_DP_THYMOCYTE_VS_THYMIC_STROMAL_CELL_DN
                                                             GSE24634_IL4_VS_CTRL_TREATED_NAIVE_CD4_TCELL_DAY3_UP, GSE24634_IL4_VS_CTRL_TREATED_NAIVE_CD4_TCELL_DAY3_UP
                                                            GSE36888_UNTREATED_VS_IL2_TREATED_TCELL_2H_DN, GSE36888_UNTREATED_VS_IL2_TREATED_TCELL_2H_DN
                                                             GSE6674 UNSTIM_VS_CPG_STIM_BCELL_DN, GSE6674_UNSTIM_VS_CPG_STIM_BCELL_DN
                                                             GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_60H_DN, GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_60H_DN
                                                             GSE13306_RA_VS_UNTREATED_MEM_CD4_TCELL_DN, GSE13306_RA_VS_UNTREATED_MEM_CD4_TCELL_DN
                                                             MIR4727_5P, MIR4727_5P
                                                             GSE22045_TREG_VS_TCONV_DN, GSE22045_TREG_VS_TCONV_DN
                                                             AIZARANI_LIVER_C4_EPCAM_POS_BILE_DUCT_CELLS_1, AIZARANI_LIVER_C4_EPCAM_POS_BILE_DUCT_CELLS_1
                                                             GSE360_DC_VS_MAC_T_GONDII_UP, GSE360_DC_VS_MAC_T_GONDII_UP
                                                             KAECH_DAY8_EFF_VS_DAY15_EFF_CD8_TCELL_DN, KAECH_DAY8_EFF_VS_DAY15_EFF_CD8_TCELL_DN
                                                             HP_GLIOSIS, HP_GLIOSIS
                                                             MODULE_43, MODULE_43
                                                            GOBP RNA POLYADENYLATION, GOBP RNA POLYADENYLATION
                                                             GSE2826_WT_VS_XID_BCELL_DN, GSE2826_WT_VS_XID_BCELL_DN
                                                             REACTOME FATTY ACID METABOLISM, REACTOME FATTY ACID METABOLISM
                                                             GSE17721_PAM3CSK4_VS_GADIQUIMOD_1H_BMDC_UP, GSE17721_PAM3CSK4_VS_GADIQUIMOD_1H_BMDC_UP
                                                             GSE1791 CTRL VS NEUROMEDINU IN T CELL LINE 3H DN, GSE1791 CTRL VS NEUROMEDINU IN T CELL LINE 3H DN
                                                             DURANTE_ADULT_OLFACTORY_NEUROEPITHELIUM_OLFACTORY_ENSHEATHING_GLIA, DURANTE_ADULT_OLFACTORY_NEUROEPITHELIUM_OLFACTORY_ENSHEATHING_GLIA
                                                             SWEET_KRAS_TARGETS_UP, SWEET_KRAS_TARGETS_UP
                                                             GSE3982_DC_VS_MAC_UP, GSE3982_DC_VS_MAC_UP
                                                            GOBP CARDIAC CHAMBER DEVELOPMENT, GOBP CARDIAC CHAMBER DEVELOPMENT
                                                             GOBP_CELL_SUBSTRATE_JUNCTION_ORGANIZATION, GOBP_CELL_SUBSTRATE_JUNCTION_ORGANIZATION
                                                             LENAOUR DENDRITIC CELL MATURATION UP, LENAOUR DENDRITIC CELL MATURATION UP
                                                             SESTO_RESPONSE_TO_UV_C8, SESTO_RESPONSE_TO_UV_C8
                                                             HP_ABNORMAL_RENAL_TUBULE_MORPHOLOGY, HP_ABNORMAL_RENAL_TUBULE_MORPHOLOGY
                                                             TURASHVILI BREAST LOBULAR CARCINOMA VS LOBULAR NORMAL UP, TURASHVILI BREAST LOBULAR CARCINOMA VS LOBULAR NORMAL UP
                                                             GOMF_OXIDOREDUCTASE_ACTIVITY_ACTING_ON_PAIRED_DONORS_WITH_INCORPORATION_OR_REDUCTION_OF_MOLECULAR_OXYGEN, GOMF_OXIDOREDUCTASE_ACTIVITY_ACTING_ON_PAIRED_DONORS_WITH_INCORPORATION_OR_REDUC
                                                             HP_ADENOCARCINOMA_OF_THE_INTESTINES, HP_ADENOCARCINOMA_OF_THE_INTESTINES
                                                             MODULE_40, MODULE_40
                                                             GSE34217_MIR17_92_OVEREXPRESS_VS_WT_ACT_CD8_TCELL_DN, GSE34217_MIR17_92_OVEREXPRESS_VS_WT_ACT_CD8_TCELL_DN
                                                             TSENG_IRS1_TARGETS_DN, TSENG_IRS1_TARGETS_DN
                                                             HP_ADENOCARCINOMA_OF_THE_LARGE_INTESTINE, HP_ADENOCARCINOMA_OF_THE_LARGE_INTESTINE
                                                             GOBP_NEURAL_TUBE_DEVELOPMENT, GOBP_NEURAL_TUBE_DEVELOPMENT
                                                             GSE40685_NAIVE_CD4_TCELL_VS_FOXP3_KO_TREG_PRECURSOR_DN, GSE40685_NAIVE_CD4_TCELL_VS_FOXP3_KO_TREG_PRECURSOR_DN
                                                             GOBP_CARDIAC_SEPTUM_DEVELOPMENT, GOBP_CARDIAC_SEPTUM_DEVELOPMENT
                                                             GOBP_FOCAL_ADHESION_ASSEMBLY, GOBP_FOCAL_ADHESION_ASSEMBLY
                                                             YGCANTGCR_UNKNOWN, YGCANTGCR_UNKNOWN
                                                             BUSSLINGER_DUODENAL_TUFT_CELLS, BUSSLINGER_DUODENAL_TUFT_CELLS
                                                             HP_ABNORMALITY_OF_THE_MUSCULATURE_OF_THE_HAND, HP_ABNORMALITY_OF_THE_MUSCULATURE_OF_THE_HAND
                                                             TAAYNRNNTCC_UNKNOWN, TAAYNRNNTCC_UNKNOWN
                                                             GSE360_DC_VS_MAC_M_TUBERCULOSIS_UP, GSE360_DC_VS_MAC_M_TUBERCULOSIS_UP
                                                             GOBP_NEPHRON_DEVELOPMENT, GOBP_NEPHRON_DEVELOPMENT
                                                             GOMF_FLAVIN_ADENINE_DINUCLEOTIDE_BINDING, GOMF_FLAVIN_ADENINE_DINUCLEOTIDE_BINDING
                                                             DACOSTA_UV_RESPONSE_VIA_ERCC3_XPCS_DN, DACOSTA_UV_RESPONSE_VIA_ERCC3_XPCS_DN
                                                             GSE26488_CTRL_VS_PEPTIDE_INJECTION_HDAC7_DELTAP_TG_OT2_THYMOCYTE_UP, GSE26488_CTRL_VS_PEPTIDE_INJECTION_HDAC7_DELTAP_TG_OT2_THYMOCYTE_UP
                                                             LUCAS_HNF4A_TARGETS_UP, LUCAS_HNF4A_TARGETS_UP
                                                             MODULE_343, MODULE_343
                                                             HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_UP, HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_UP
                                                             GALLUZZI_PERMEABILIZE_MITOCHONDRIA, GALLUZZI_PERMEABILIZE_MITOCHONDRIA
                                                             GOBP_NUCLEAR_TRANSCRIBED_MRNA_POLY_A_TAIL_SHORTENING, GOBP_NUCLEAR_TRANSCRIBED_MRNA_POLY_A_TAIL_SHORTENING
                                                             HARALAMBIEVA_PBMC_M_M_R_II_AGE_13_16YO_STIMULATED_VS_UNSTIMULATED_3_TO_7YR_POST_TOP_DEG_UP, HARALAMBIEVA_PBMC_M_M_R_II_AGE_13_16YO_STIMULATED_VS_UNSTIMULATED_3_TO_7YR_POST_TOP_DEG_UP
                                                             ROSS_AML_OF_FAB_M7_TYPE, ROSS_AML_OF_FAB_M7_TYPE
                                                             GOBP_REGULATION_OF_MEMBRANE_INVAGINATION, GOBP_REGULATION_OF_MEMBRANE_INVAGINATION
                                                             GSE45365_NK_CELL_VS_BCELL_DN, GSE45365_NK_CELL_VS_BCELL_DN
                                                             VALK_AML_CLUSTER_9, VALK_AML_CLUSTER_9
                                                             GOBP_CARDIAC_SEPTUM_MORPHOGENESIS, GOBP_CARDIAC_SEPTUM_MORPHOGENESIS
                                                             WP_PROSTAGLANDIN_SYNTHESIS_AND_REGULATION, WP_PROSTAGLANDIN_SYNTHESIS_AND_REGULATION
                                                             HU_FETAL_RETINA_AMACRINE, HU_FETAL_RETINA_AMACRINE
                                                             MIR378F, MIR378F
                                                             MIR378E, MIR378E
                                                             MIR378A_3P_MIR378C_MIR378D_MIR378I, MIR378A_3P_MIR378C_MIR378D_MIR378I
                                                             BOYAULT_LIVER_CANCER_SUBCLASS_G6_UP, BOYAULT_LIVER_CANCER_SUBCLASS_G6_UP
                                                             HP_HEMANGIOBLASTOMA, HP_HEMANGIOBLASTOMA
                                                             MIR422A, MIR422A
                                                             REACTOME COLLAGEN FORMATION, REACTOME COLLAGEN FORMATION
                                                             MODULE_221, MODULE_221
                                                             HP CEREBRAL HEMORRHAGE, HP CEREBRAL HEMORRHAGE
                                                             GOCC_ACTOMYOSIN, GOCC_ACTOMYOSIN
                                                             HP_ABNORMALITY_OF_SKIN_ADNEXA_PHYSIOLOGY, HP_ABNORMALITY_OF_SKIN_ADNEXA_PHYSIOLOGY
                                                             HP_HYPERHIDROSIS, HP_HYPERHIDROSIS
                                                             MODULE_295, MODULE_295
                                                             LIANG HEMATOPOIESIS STEM CELL NUMBER LARGE VS TINY DN, LIANG HEMATOPOIESIS STEM CELL NUMBER LARGE VS TINY DN
                                                             GSE29618_LAIV_VS_TIV_FLU_VACCINE_DAY7_BCELL_UP, GSE29618_LAIV_VS_TIV_FLU_VACCINE_DAY7_BCELL_UP
                                                             ANDERSEN_LIVER_CANCER_KRT19_DN, ANDERSEN_LIVER_CANCER_KRT19_DN
                                                             HP CHEST PAIN, HP CHEST PAIN
                                                             MIR378B, MIR378B
                                                             ZHAN_MULTIPLE_MYELOMA_HP_DN, ZHAN_MULTIPLE_MYELOMA_HP_DN
                                                             GOBP_UNSATURATED_FATTY_ACID_METABOLIC_PROCESS, GOBP_UNSATURATED_FATTY_ACID_METABOLIC_PROCESS
                                                             GOBP_RIBONUCLEOTIDE_CATABOLIC_PROCESS, GOBP_RIBONUCLEOTIDE_CATABOLIC_PROCESS
                                                             GOBP_REGULATION_OF_ACTIN_FILAMENT_BUNDLE_ASSEMBLY, GOBP_REGULATION_OF_ACTIN_FILAMENT_BUNDLE_ASSEMBLY
                                                             HP_ABNORMALITY_OF_PRIMARY_TEETH, HP_ABNORMALITY_OF_PRIMARY_TEETH
                                                             MIR6804_5P, MIR6804_5P
                                                             POU3F2 01, POU3F2 01
                                                             GOBP_VENTRICULAR_SEPTUM_DEVELOPMENT, GOBP_VENTRICULAR_SEPTUM_DEVELOPMENT
                                                             GOBP_ARTERY_DEVELOPMENT, GOBP_ARTERY_DEVELOPMENT
                                                             YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_16, YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_16
                                                             HP_ABNORMAL_CAUDATE_NUCLEUS_MORPHOLOGY, HP_ABNORMAL_CAUDATE_NUCLEUS_MORPHOLOGY
                                                             GOBP_MYELOID_CELL_APOPTOTIC_PROCESS, GOBP_MYELOID_CELL_APOPTOTIC_PROCESS
                                                             GOBP_ATRIOVENTRICULAR_VALVE_DEVELOPMENT, GOBP_ATRIOVENTRICULAR_VALVE_DEVELOPMENT
                                                             GOBP_REGULATION_OF_MRNA_POLYADENYLATION, GOBP_REGULATION_OF_MRNA_POLYADENYLATION
                                                             GOBP_NEPHRON_EPITHELIUM_DEVELOPMENT, GOBP_NEPHRON_EPITHELIUM_DEVELOPMENT
                                                            GOBP_AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT, GOBP_AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT
                                                            GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID_UP, GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID_UP
                                                             GOBP_ARTERY_MORPHOGENESIS, GOBP_ARTERY_MORPHOGENESIS
                                                            GOMF_PROFILIN_BINDING, GOMF_PROFILIN_BINDING
                                                            VISALA_RESPONSE_TO_HEAT_SHOCK_AND_AGING_UP, VISALA_RESPONSE_TO_HEAT_SHOCK_AND_AGING_UP
                                                            GOBP_AORTA_DEVELOPMENT, GOBP_AORTA_DEVELOPMENT
                                                            VANTVEER_BREAST_CANCER_METASTASIS_UP, VANTVEER_BREAST_CANCER_METASTASIS_UP
                                                            SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1A, SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1A
                                                            GOBP_NEGATIVE_REGULATION_OF_ANOIKIS, GOBP_NEGATIVE_REGULATION_OF_ANOIKIS
                                                            GOBP_REGULATION_OF_ACTOMYOSIN_STRUCTURE_ORGANIZATION, GOBP_REGULATION_OF_ACTOMYOSIN_STRUCTURE_ORGANIZATION
                                                            GOBP_SUBSTRATE_DEPENDENT_CELL_MIGRATION, GOBP_SUBSTRATE_DEPENDENT_CELL_MIGRATION
                                                            HP_MYOKYMIA, HP_MYOKYMIA
                                                             DOANE_BREAST_CANCER_CLASSES_UP, DOANE_BREAST_CANCER_CLASSES_UP
                                                             HP_SINUS_TACHYCARDIA, HP_SINUS_TACHYCARDIA
                                                             MELLMAN_TUT1_TARGETS_DN, MELLMAN_TUT1_TARGETS_DN
                                                             TRAVAGLINI_LUNG_MYELOID_DENDRITIC_TYPE_1_CELL, TRAVAGLINI_LUNG_MYELOID_DENDRITIC_TYPE_1_CELL
                                                             CLAUS_PGR_POSITIVE_MENINGIOMA_DN, CLAUS_PGR_POSITIVE_MENINGIOMA_DN
                                                             HALLMARK_HEDGEHOG_SIGNALING, HALLMARK_HEDGEHOG_SIGNALING
                                                             GOBP_KIDNEY_MORPHOGENESIS, GOBP_KIDNEY_MORPHOGENESIS
                                                             KEGG_TRYPTOPHAN_METABOLISM, KEGG_TRYPTOPHAN_METABOLISM
                                                             BOYAULT_LIVER_CANCER_SUBCLASS_G123_DN, BOYAULT_LIVER_CANCER_SUBCLASS_G123_DN
                                                             HAN_JNK_SINGALING_UP, HAN_JNK_SINGALING_UP
                                                             KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION, KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION
                                                             GOBP_REGULATION_OF_AXON_GUIDANCE, GOBP_REGULATION_OF_AXON_GUIDANCE
                                                             GOBP_ECTODERM_DEVELOPMENT, GOBP_ECTODERM_DEVELOPMENT
                                                             ABBUD_LIF_SIGNALING_2_UP, ABBUD_LIF_SIGNALING_2_UP
                                                             GOBP_SEMAPHORIN_PLEXIN_SIGNALING_PATHWAY_INVOLVED_IN_NEURON_PROJECTION_GUIDANCE, GOBP_SEMAPHORIN_PLEXIN_SIGNALING_PATHWAY_INVOLVED_IN_NEURON_PROJECTION_GUIDANCE
                                                            GOBP_ANATOMICAL_STRUCTURE_ARRANGEMENT, GOBP_ANATOMICAL_STRUCTURE_ARRANGEMENT
_VS_NEUTROPHIL_UP, GSE3982_DC_VS_NEUTROPHIL_UP
                                                             HP_FLUSHING, HP_FLUSHING
                                                             GOBP_POSITIVE_REGULATION_OF_STRESS_FIBER_ASSEMBLY, GOBP_POSITIVE_REGULATION_OF_STRESS_FIBER_ASSEMBLY
                                                             GOBP_MITRAL_VALVE_DEVELOPMENT, GOBP_MITRAL_VALVE_DEVELOPMENT
                                                             GOCC_HEMIDESMOSOME, GOCC_HEMIDESMOSOME
                                                             MTHFD1_TARGET_GENES, MTHFD1_TARGET_GENES
                                                             HP_BARREL_SHAPED_CHEST, HP_BARREL_SHAPED_CHEST
                                                             GOBP_DIGESTIVE_TRACT_MORPHOGENESIS, GOBP_DIGESTIVE_TRACT_MORPHOGENESIS
                                                             WP_MITOCHONDRIAL_LCFATTY_ACID_BETAOXIDATION, WP_MITOCHONDRIAL_LCFATTY_ACID_BETAOXIDATION
                                                             GOBP_RENAL_TUBULE_DEVELOPMENT, GOBP_RENAL_TUBULE_DEVELOPMENT
                                                             GOMF_MUSCLE_ALPHA_ACTININ_BINDING, GOMF_MUSCLE_ALPHA_ACTININ_BINDING
                                                             GOBP_POSITIVE_REGULATION_OF_FOCAL_ADHESION_ASSEMBLY, GOBP_POSITIVE_REGULATION_OF_FOCAL_ADHESION_ASSEMBLY
                                                             GOBP_PEPTIDE_CATABOLIC_PROCESS, GOBP_PEPTIDE_CATABOLIC_PROCESS
                                                             DURANTE_ADULT_OLFACTORY_NEUROEPITHELIUM_RESPIRATORY_COLUMNAR_CELLS, DURANTE_ADULT_OLFACTORY_NEUROEPITHELIUM_RESPIRATORY_COLUMNAR_CELLS
                                                             GNF2_MATK, GNF2_MATK
                                                             WP_TRYPTOPHAN_CATABOLISM_LEADING_TO_NAD_PRODUCTION, WP_TRYPTOPHAN_CATABOLISM_LEADING_TO_NAD_PRODUCTION
                                                             HP_SPONDYLOLYSIS, HP_SPONDYLOLYSIS
                                                             GOBP_AORTA_MORPHOGENESIS, GOBP_AORTA_MORPHOGENESIS
                                                             BLANCO_MELO_SARS_COV_1_INFECTION_MCR5_CELLS_DN, BLANCO_MELO_SARS_COV_1_INFECTION_MCR5_CELLS_DN
                                                             GCM_LTK, GCM_LTK
                                                             MCDOWELL_ACUTE_LUNG_INJURY_DN, MCDOWELL_ACUTE_LUNG_INJURY_DN
                                                            GOMF_SEMAPHORIN_RECEPTOR_ACTIVITY, GOMF_SEMAPHORIN_RECEPTOR_ACTIVITY
                                                             HP_LENS_LUXATION, HP_LENS_LUXATION
                                                            GOBP_OUTFLOW_TRACT_SEPTUM_MORPHOGENESIS, GOBP_OUTFLOW_TRACT_SEPTUM_MORPHOGENESIS
                                                             LEE_LIVER_CANCER_DENA_DN, LEE_LIVER_CANCER_DENA_DN
                                                             MAINA_VHL_TARGETS_UP, MAINA_VHL_TARGETS_UP
                                                             HP_CORNEAL_SCARRING, HP_CORNEAL_SCARRING
                                                            HP_LOW_FRUSTRATION_TOLERANCE, HP_LOW_FRUSTRATION_TOLERANCE
                                                             GOBP_NEGATIVE_REGULATION_OF_EPITHELIAL_CELL_MIGRATION, GOBP_NEGATIVE_REGULATION_OF_EPITHELIAL_CELL_MIGRATION
                                                             GOCC SEMAPHORIN RECEPTOR COMPLEX, GOCC SEMAPHORIN RECEPTOR COMPLEX
                                                             MODULE_354, MODULE_354
                                                             NOUSHMEHR_GBM_SOMATIC_MUTATED, NOUSHMEHR_GBM_SOMATIC_MUTATED
                                                             GOBP_REGULATION_OF_EXTRACELLULAR_MATRIX_DISASSEMBLY, GOBP_REGULATION_OF_EXTRACELLULAR_MATRIX_DISASSEMBLY
                                                             GOCC_EQUATORIAL_MICROTUBULE_ORGANIZING_CENTER, GOCC_EQUATORIAL_MICROTUBULE_ORGANIZING_CENTER
                                                             HP_APLASIA_HYPOPLASIA_INVOLVING_THE_SINUSES, HP_APLASIA_HYPOPLASIA_INVOLVING_THE_SINUSES
                                                             GOBP_AROMATIC_AMINO_ACID_FAMILY_METABOLIC_PROCESS, GOBP_AROMATIC_AMINO_ACID_FAMILY_METABOLIC_PROCESS
                                                             HP DISTAL LOWER LIMB AMYOTROPHY, HP DISTAL LOWER LIMB AMYOTROPHY
                                                             GOBP_NAD_BIOSYNTHETIC_PROCESS, GOBP_NAD_BIOSYNTHETIC_PROCESS
                                                             GOBP_POSITIVE_REGULATION_OF_CELL_SUBSTRATE_JUNCTION_ORGANIZATION, GOBP_POSITIVE_REGULATION_OF_CELL_SUBSTRATE_JUNCTION_ORGANIZATION
                                                             SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX5_UP, SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX5_UP
                                                             GOBP_LINOLEIC_ACID_METABOLIC_PROCESS, GOBP_LINOLEIC_ACID_METABOLIC_PROCESS
                                                             HP_OVERLAPPING_FINGERS, HP_OVERLAPPING_FINGERS
                                                             HP_HYPOGLYCEMIC_COMA, HP_HYPOGLYCEMIC_COMA
                                                             GOMF_TRANSLATION_REPRESSOR_ACTIVITY, GOMF_TRANSLATION_REPRESSOR_ACTIVITY
                                                             GOBP_INDOLE_CONTAINING_COMPOUND_METABOLIC_PROCESS, GOBP_INDOLE_CONTAINING_COMPOUND_METABOLIC_PROCESS
                                                             GOBP_PHENOL_CONTAINING_COMPOUND_METABOLIC_PROCESS, GOBP_PHENOL_CONTAINING_COMPOUND_METABOLIC_PROCESS
                                                             GOBP_NEPHRON_MORPHOGENESIS, GOBP_NEPHRON_MORPHOGENESIS
                                                             GOBP_LIPOPHAGY, GOBP_LIPOPHAGY
                                                             GOMF_LEUCINE_BINDING, GOMF_LEUCINE_BINDING
                                                             GOBP POSITIVE REGULATION OF RECEPTOR SIGNALING PATHWAY VIA STAT, GOBP POSITIVE REGULATION OF RECEPTOR SIGNALING PATHWAY VIA STAT
                                                             GOBP_BENZENE_CONTAINING_COMPOUND_METABOLIC_PROCESS, GOBP_BENZENE_CONTAINING_COMPOUND_METABOLIC_PROCESS
                                                             GOBP_HOMEOSTASIS_OF_NUMBER_OF_CELLS_WITHIN_A_TISSUE, GOBP_HOMEOSTASIS_OF_NUMBER_OF_CELLS_WITHIN_A_TISSUE
                                                             TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_GRANULOCYTE_UP, TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_GRANULOCYTE_UP
                                                             WP SEROTONIN TRANSPORTER ACTIVITY, WP SEROTONIN TRANSPORTER ACTIVITY
                                                             KEGG_DRUG_METABOLISM_CYTOCHROME_P450, KEGG_DRUG_METABOLISM_CYTOCHROME_P450
                                                             GOBP_AROMATIC_AMINO_ACID_FAMILY_CATABOLIC_PROCESS, GOBP_AROMATIC_AMINO_ACID_FAMILY_CATABOLIC_PROCESS
                                                             GOMF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_ACTIVATED_RECEPTOR_ACTIVITY, GOMF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_ACTIVATED_RECEPTOR_ACTIVITY
                                                             GOBP POSITIVE REGULATION OF CILIUM MOVEMENT, GOBP POSITIVE REGULATION OF CILIUM MOVEMENT
                                                             GOBP_AXONOGENESIS_INVOLVED_IN_INNERVATION, GOBP_AXONOGENESIS_INVOLVED_IN_INNERVATION
                                                             HP_OPEN_OPERCULUM, HP_OPEN_OPERCULUM
                                                             GOBP_REGULATION_OF_LIPOPHAGY, GOBP_REGULATION_OF_LIPOPHAGY
                                                             HP HYPOVENTILATION, HP HYPOVENTILATION
                                                             TAVAZOIE_METASTASIS, TAVAZOIE_METASTASIS
                                                             PID_VEGF_VEGFR_PATHWAY, PID_VEGF_VEGFR_PATHWAY
                                                             REACTOME_CRMPS_IN_SEMA3A_SIGNALING, REACTOME_CRMPS_IN_SEMA3A_SIGNALING
                                                             GOBP_CARDIAC_RIGHT_VENTRICLE_MORPHOGENESIS, GOBP_CARDIAC_RIGHT_VENTRICLE_MORPHOGENESIS
                                                             GOBP_MESONEPHRIC_TUBULE_MORPHOGENESIS, GOBP_MESONEPHRIC_TUBULE_MORPHOGENESIS
                                                             HP_SHOULDER_FLEXION_CONTRACTURE, HP_SHOULDER_FLEXION_CONTRACTURE
                                                             GOBP_MOTOR_NEURON_MIGRATION, GOBP_MOTOR_NEURON_MIGRATION
                                                             MIKKELSEN_IPS_LCP_WITH_H3K4ME3_AND_H3K27ME3, MIKKELSEN_IPS_LCP_WITH_H3K4ME3_AND_H3K27ME3
                                                             HP_FOCAL_CORTICAL_DYSPLASIA_TYPE_II, HP_FOCAL_CORTICAL_DYSPLASIA_TYPE_II
                                                             GOCC_GARP_COMPLEX, GOCC_GARP_COMPLEX
                                                             GOMF FIBROBLAST GROWTH FACTOR ACTIVATED RECEPTOR ACTIVITY, GOMF FIBROBLAST GROWTH FACTOR ACTIVATED RECEPTOR ACTIVITY
                                                             GOMF_MITOGEN_ACTIVATED_PROTEIN_KINASE_P38_BINDING, GOMF_MITOGEN_ACTIVATED_PROTEIN_KINASE_P38_BINDING
                                                             GOMF MEDIUM CHAIN FATTY ACID COA LIGASE ACTIVITY, GOMF MEDIUM CHAIN FATTY ACID COA LIGASE ACTIVITY
                                                             CAO_BLOOD_FLUMIST_AGE_05_14YO_1DY_DN, CAO_BLOOD_FLUMIST_AGE_05_14YO_1DY_DN
                                                             ZHONG_PFC_C3_HOPX_POS_OPC, ZHONG_PFC_C3_HOPX_POS_OPC
                                                             GOBP SYMPATHETIC NERVOUS SYSTEM DEVELOPMENT, GOBP SYMPATHETIC NERVOUS SYSTEM DEVELOPMENT
                                                             GOBP_GLYCOSIDE_METABOLIC_PROCESS, GOBP_GLYCOSIDE_METABOLIC_PROCESS
                                                             KORKOLA EMBRYONIC CARCINOMA VS SEMINOMA DN, KORKOLA EMBRYONIC CARCINOMA VS SEMINOMA DN
                                                             HP_ABNORMAL_SPACED_INCISORS, HP_ABNORMAL_SPACED_INCISORS
                                                             GOBP_LEARNED_VOCALIZATION_BEHAVIOR_OR_VOCAL_LEARNING, GOBP_LEARNED_VOCALIZATION_BEHAVIOR_OR_VOCAL_LEARNING
                                                             GOBP_POSITIVE_REGULATION_OF_AXON_EXTENSION_INVOLVED_IN_AXON_GUIDANCE, GOBP_POSITIVE_REGULATION_OF_AXON_EXTENSION_INVOLVED_IN_AXON_GUIDANCE
                                                             HP_ABSENT_PHALANGEAL_CREASE, HP_ABSENT_PHALANGEAL_CREASE
                                                             MIR933, MIR933
                                                             HP_POPLITEAL_PTERYGIUM, HP_POPLITEAL_PTERYGIUM
                                                             GOBP_NEURAL_CREST_CELL_MIGRATION_INVOLVED_IN_AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT, GOBP_NEURAL_CREST_CELL_MIGRATION_INVOLVED_IN_AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT
                                                             GOBP_CELL_FATE_SPECIFICATION, GOBP_CELL_FATE_SPECIFICATION
                                                             HP_SPONDYLOLISTHESIS, HP_SPONDYLOLISTHESIS
                                                             GOBP_CAMP_CATABOLIC_PROCESS, GOBP_CAMP_CATABOLIC_PROCESS
                                                             GOBP_GLIAL_CELL_FATE_COMMITMENT, GOBP_GLIAL_CELL_FATE_COMMITMENT
                                                            GOBP_DIPEPTIDE_TRANSMEMBRANE_TRANSPORT, GOBP_DIPEPTIDE_TRANSMEMBRANE_TRANSPORT
                                                             GOBP_DETECTION_OF_MUSCLE_STRETCH, GOBP_DETECTION_OF_MUSCLE_STRETCH
                                                             GOBP REGULATION OF CDC42 PROTEIN SIGNAL TRANSDUCTION, GOBP REGULATION OF CDC42 PROTEIN SIGNAL TRANSDUCTION
                                                             chr4q32, chr4q32
                                                             TSENG_ADIPOGENIC_POTENTIAL_DN, TSENG_ADIPOGENIC_POTENTIAL_DN
                                                             GOBP_REGULATION_OF_GLOMERULAR_FILTRATION, GOBP_REGULATION_OF_GLOMERULAR_FILTRATION
                                                             GOBP_INDOLALKYLAMINE_METABOLIC_PROCESS, GOBP_INDOLALKYLAMINE_METABOLIC_PROCESS
                                                             HP_PERIODIC_PARALYSIS, HP_PERIODIC_PARALYSIS
                                                             GOBP_LYMPH_VESSEL_MORPHOGENESIS, GOBP_LYMPH_VESSEL_MORPHOGENESIS
                                                             GOBP_ASCENDING_AORTA_DEVELOPMENT, GOBP_ASCENDING_AORTA_DEVELOPMENT
                                                             GOMF_LEUKOTRIENE_C4_SYNTHASE_ACTIVITY, GOMF_LEUKOTRIENE_C4_SYNTHASE_ACTIVITY
                                                             GOMF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_BINDING, GOMF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_BINDING
                                                             GOBP_REGULATION_OF_RETINAL_GANGLION_CELL_AXON_GUIDANCE, GOBP_REGULATION_OF_RETINAL_GANGLION_CELL_AXON_GUIDANCE
                                                             GOBP_REGULATION_OF_LYMPHANGIOGENESIS, GOBP_REGULATION_OF_LYMPHANGIOGENESIS
                                                             FOXF2_TARGET_GENES, FOXF2_TARGET_GENES
                                                             GOBP_GLUTAMATE_BIOSYNTHETIC_PROCESS, GOBP_GLUTAMATE_BIOSYNTHETIC_PROCESS
                                                             GOBP_CARBON_DIOXIDE_TRANSPORT, GOBP_CARBON_DIOXIDE_TRANSPORT
                                                             GOBP_REGULATION_OF_INOSITOL_1_4_5_TRISPHOSPHATE_SENSITIVE_CALCIUM_RELEASE_CHANNEL_ACTIVITY, GOBP_REGULATION_OF_INOSITOL_1_4_5_TRISPHOSPHATE_SENSITIVE_CALCIUM_RELEASE_CHANNEL_ACTIVITY
                                                            GOBP_POSITIVE_REGULATION_OF_TRANSLATION_IN_RESPONSE_TO_ENDOPLASMIC_RETICULUM_STRESS, GOBP_POSITIVE_REGULATION_OF_TRANSLATION_IN_RESPONSE_TO_ENDOPLASMIC_RETICULUM_STRESS
                                                            WP_FTO_OBESITY_VARIANT_MECHANISM, WP_FTO_OBESITY_VARIANT_MECHANISM
                                                             HP_AXILLARY_PTERYGIUM, HP_AXILLARY_PTERYGIUM
                                                             GOBP_DE_NOVO_NAD_BIOSYNTHETIC_PROCESS, GOBP_DE_NOVO_NAD_BIOSYNTHETIC_PROCESS
                                                             GOBP_DOPAMINE_CATABOLIC_PROCESS, GOBP_DOPAMINE_CATABOLIC_PROCESS
                                                            GCM ATM, GCM ATM
                                                            GOBP_TRIVALENT_INORGANIC_ANION_HOMEOSTASIS, GOBP_TRIVALENT_INORGANIC_ANION_HOMEOSTASIS
                                                             GOBP_CATECHOL_CONTAINING_COMPOUND_METABOLIC_PROCESS, GOBP_CATECHOL_CONTAINING_COMPOUND_METABOLIC_PROCESS
                                                             HP_PERIODIC_HYPOKALEMIC_PARESIS, HP_PERIODIC_HYPOKALEMIC_PARESIS
                                                             GOBP_TRYPTOPHAN_METABOLIC_PROCESS, GOBP_TRYPTOPHAN_METABOLIC_PROCESS
                                                             HP_HIGHLY_ELEVATED_CREATINE_KINASE, HP_HIGHLY_ELEVATED_CREATINE_KINASE
                                                            HP ROUND EAR, HP ROUND EAR
                                                             GOBP_REGULATION_OF_RETROGRADE_TRANSPORT_ENDOSOME_TO_GOLGI, GOBP_REGULATION_OF_RETROGRADE_TRANSPORT_ENDOSOME_TO_GOLGI
                                                             HP ABNORMAL PROTEIN O LINKED GLYCOSYLATION, HP ABNORMAL PROTEIN O LINKED GLYCOSYLATION
                                                             GOBP_VOCAL_LEARNING, GOBP_VOCAL_LEARNING
                                                             MAHADEVAN_IMATINIB_RESISTANCE_UP, MAHADEVAN_IMATINIB_RESISTANCE_UP
                                                             chr6q26, chr6q26
                                                            GOCC_MHC_CLASS_II_PROTEIN_COMPLEX, GOCC_MHC_CLASS_II_PROTEIN_COMPLEX
                                                             GOBP_SYMPATHETIC_GANGLION_DEVELOPMENT, GOBP_SYMPATHETIC_GANGLION_DEVELOPMENT
                                                             GOMF_MHC_CLASS_II_RECEPTOR_ACTIVITY, GOMF_MHC_CLASS_II_RECEPTOR_ACTIVITY
                                                             REACTOME_ERYTHROCYTES_TAKE_UP_OXYGEN_AND_RELEASE_CARBON_DIOXIDE, REACTOME_ERYTHROCYTES_TAKE_UP_OXYGEN_AND_RELEASE_CARBON_DIOXIDE
                                                             HP_FASTING_HYPERINSULINEMIA, HP_FASTING_HYPERINSULINEMIA
                                                             GOBP_NORADRENERGIC_NEURON_DIFFERENTIATION, GOBP_NORADRENERGIC_NEURON_DIFFERENTIATION
                                                             GOBP_RENAL_SYSTEM_PROCESS_INVOLVED_IN_REGULATION_OF_BLOOD_VOLUME, GOBP_RENAL_SYSTEM_PROCESS_INVOLVED_IN_REGULATION_OF_BLOOD_VOLUME
                                                             GOBP_MESODERMAL_CELL_DIFFERENTIATION, GOBP_MESODERMAL_CELL_DIFFERENTIATION
                                                             HP_SKULL_ASYMMETRY, HP_SKULL_ASYMMETRY
                                                             GOBP_SEPTUM_PRIMUM_DEVELOPMENT, GOBP_SEPTUM_PRIMUM_DEVELOPMENT
                                                             GOBP_TRYPTOPHAN_CATABOLIC_PROCESS_TO_KYNURENINE, GOBP_TRYPTOPHAN_CATABOLIC_PROCESS_TO_KYNURENINE
                                                             GOBP_QUINOLINATE_METABOLIC_PROCESS, GOBP_QUINOLINATE_METABOLIC_PROCESS
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GOBP_PROTEIN_C_LINKED_GLYCOSYLATION, GOBP_PROTEIN_C_LINKED_GLYCOSYLATION

GOBP_TRYPTOPHAN_CATABOLIC_PROCESS, GOBP_TRYPTOPHAN_CATABOLIC_PROCESS

GOBP_CHITIN_METABOLIC_PROCESS, GOBP_CHITIN_METABOLIC_PROCESS

GOMF_ARYLESTERASE_ACTIVITY, GOMF_ARYLESTERASE_ACTIVITY

GOBP_ACTIVATION_OF_JANUS_KINASE_ACTIVITY, GOBP_ACTIVATION_OF_JANUS_KINASE_ACTIVITY

GOBP_REGULATION_OF_GLUTAMATE_SECRETION, GOBP_REGULATION_OF_GLUTAMATE_SECRETION

WINNEPENNINCKX_MELANOMA_METASTASIS_DN, WINNEPENNINCKX_MELANOMA_METASTASIS_DN

GOBP_LYMPHANGIOGENESIS, GOBP_LYMPHANGIOGENESIS

GOBP_NEGATIVE_REGULATION_OF_PROSTAGLANDIN_BIOSYNTHETIC_PROCESS, GOBP_NEGATIVE_REGULATION_OF_PROSTAGLANDIN_BIOSYNTHETIC_PROCESS

GOBP_NEGATIVE_REGULATION_OF_CYTOPLASMIC_TRANSLATION, GOBP_NEGATIVE_REGULATION_OF_CYTOPLASMIC_TRANSLATION

GOBP_POSITIVE_REGULATION_OF_GLUTAMATE_SECRETION, GOBP_POSITIVE_REGULATION_OF_GLUTAMATE_SECRETION

GOBP_REGULATION_OF_BILE_ACID_BIOSYNTHETIC_PROCESS, GOBP_REGULATION_OF_BILE_ACID_BIOSYNTHETIC_PROCESS REACTOME_PHOSPHOLIPASE_C_MEDIATED_CASCADE_FGFR4, REACTOME_PHOSPHOLIPASE_C_MEDIATED_CASCADE_FGFR4

GSE3982 NEUTROPHIL_VS_TH2_DN, GSE3982_NEUTROPHIL_VS_TH2_DN

GSE22886 DAY1 VS DAY7 MONOCYTE IN CULTURE DN, GSE22886 DAY1 VS DAY7 MONOCYTE IN CULTURE DN