```
GSE36392_EOSINOPHIL_VS_MAC_IL25_TREATED_LUNG_DN, GSE36392_EOSINOPHIL_VS_MAC_IL25_TREATED_LUNG_DN
                                                                                                  GSE27786_CD8_TCELL_VS_NEUTROPHIL_UP, GSE27786_CD8_TCELL_VS_NEUTROPHIL_UP
                                                                                                  GSE42724_B1_BCELL_VS_PLASMABLAST_DN, GSE42724_B1_BCELL_VS_PLASMABLAST_DN
                                                                                                  GSE27786_NKTCELL_VS_NEUTROPHIL_UP, GSE27786_NKTCELL_VS_NEUTROPHIL_UP
                                                                                                  GSE27786_LIN_NEG_VS_MONO_MAC_UP, GSE27786_LIN_NEG_VS_MONO_MAC_UP
                                                                                                  GSE27786_LSK_VS_NEUTROPHIL_UP, GSE27786_LSK_VS_NEUTROPHIL_UP
                                                                                                  GSE27786_LIN_NEG_VS_NEUTROPHIL_UP, GSE27786_LIN_NEG_VS_NEUTROPHIL_UP
                                                                                                  GSE18893_CTRL_VS_TNF_TREATED_TCONV_24H_UP, GSE18893_CTRL_VS_TNF_TREATED_TCONV_24H_UP
                                                                                                  GSE27786_LIN_NEG_VS_CD8_TCELL_UP, GSE27786_LIN_NEG_VS_CD8_TCELL_UP
                                                                                                  GSE20198_IL12_VS_IL12_IL18_TREATED_ACT_CD4_TCELL_UP, GSE20198_IL12_VS_IL12_IL18_TREATED_ACT_CD4_TCELL_UP
                                                                                                  GSE14308_TH2_VS_INDUCED_TREG_DN, GSE14308_TH2_VS_INDUCED_TREG_DN
                                                                                                  GSE2197_CPG_DNA_VS_UNTREATED_IN_DC_DN, GSE2197_CPG_DNA_VS_UNTREATED_IN_DC_DN
                                                                                                  GSE14308_TH2_VS_TH1_UP, GSE14308_TH2_VS_TH1_UP
                                                                                                  GSE19888_NO_PRETREAT_VS_ADENOSINE_A3R_INHIBITOR_PRETREATED_MAST_CELL_TCELL_MEMBRANES_ACT_UP, GSE19888_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_PRETREATED_NO_
                                                                                                  GSE27786_LIN_NEG_VS_NKCELL_UP, GSE27786_LIN_NEG_VS_NKCELL_UP
                                                                                                  GSE42724_MEMORY_VS_B1_BCELL_UP, GSE42724_MEMORY_VS_B1_BCELL_UP
                                                                                                  HP_NEONATAL_HYPOTONIA, HP_NEONATAL_HYPOTONIA
                                                                                                  GSE29617_DAY3_VS_DAY7_TIV_FLU_VACCINE_PBMC_2008_DN, GSE29617_DAY3_VS_DAY7_TIV_FLU_VACCINE_PBMC_2008_DN
                                                                                                  GSE13522_CTRL_VS_T_CRUZI_Y_STRAIN_INF_SKIN_IFNG_KO_UP, GSE13522_CTRL_VS_T_CRUZI_Y_STRAIN_INF_SKIN_IFNG_KO_UP
                                                                                                  GSE5542_IFNA_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_6H_DN, GSE5542_IFNA_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_6H_DN
                                                                                                  GSE11961_FOLLICULAR_BCELL_VS_MEMORY_BCELL_DAY40_DN, GSE11961_FOLLICULAR_BCELL_VS_MEMORY_BCELL_DAY40_DN
                                                                                                  WAKASUGI_HAVE_ZNF143_BINDING_SITES, WAKASUGI_HAVE_ZNF143_BINDING_SITES
                                                                                                  GSE14308_TH1_VS_NAIVE_CD4_TCELL_DN, GSE14308_TH1_VS_NAIVE_CD4_TCELL_DN
                                                                                                  GSE19941_UNSTIM_VS_LPS_AND_IL10_STIM_IL10_KO_NFKBP50_KO_MACROPHAGE_DN, GSE19941_UNSTIM_VS_LPS_AND_IL10_STIM_IL10_KO_NFKBP50_KO_MACROPHAGE_DN
                                                                                                  HP_ABNORMAL_ESOPHAGUS_MORPHOLOGY, HP_ABNORMAL_ESOPHAGUS_MORPHOLOGY
                                                                                                 HP_ANAL_ATRESIA, HP_ANAL_ATRESIA
                                                                                                  GSE21546_WT_VS_ELK1_KO_ANTI_CD3_STIM_DP_THYMOCYTES_UP, GSE21546_WT_VS_ELK1_KO_ANTI_CD3_STIM_DP_THYMOCYTES_UP
                                                                                                  MARIADASON_RESPONSE_TO_BUTYRATE_SULINDAC_6, MARIADASON_RESPONSE_TO_BUTYRATE_SULINDAC_6
                                                                                                  HP_ABNORMAL_UTERUS_MORPHOLOGY, HP_ABNORMAL_UTERUS_MORPHOLOGY
                                                                                                  GOBP_RESPONSE_TO_MONOSACCHARIDE, GOBP_RESPONSE_TO_MONOSACCHARIDE
                                                                                                  HP_ABNORMALITY_OF_THE_PREPUTIUM, HP_ABNORMALITY_OF_THE_PREPUTIUM
                                                                                                  HP_ABNORMAL_ILEUM_MORPHOLOGY, HP_ABNORMAL_ILEUM_MORPHOLOGY
                                                                                                  MCM2_TARGET_GENES, MCM2_TARGET_GENES
                                                                                                  GOMF_RNA_POLYMERASE_BINDING, GOMF_RNA_POLYMERASE_BINDING
                                                                                                  WP_THERMOGENESIS, WP_THERMOGENESIS
                                                                                                  GSE12707_AT16L1_HYPOMORPH_VS_WT_THYMUS_UP, GSE12707_AT16L1_HYPOMORPH_VS_WT_THYMUS_UP
                                                                                                  HP_ABNORMAL_CAROTID_ARTERY_MORPHOLOGY, HP_ABNORMAL_CAROTID_ARTERY_MORPHOLOGY
                                                                                                  WP_TRANSLATION_INHIBITORS_IN_CHRONICALLY_ACTIVATED_PDGFRA_CELLS, WP_TRANSLATION_INHIBITORS_IN_CHRONICALLY_ACTIVATED_PDGFRA_CELLS
                                                                                                  MIR8065, MIR8065
                                                                                                  HP_ABSENT_TESTIS, HP_ABSENT_TESTIS
                                                                                                  GSE45365_NK_CELL_VS_BCELL_DN, GSE45365_NK_CELL_VS_BCELL_DN
                                                                                                  HP_PROGRESSIVE_EXTERNAL_OPHTHALMOPLEGIA, HP_PROGRESSIVE_EXTERNAL_OPHTHALMOPLEGIA
                                                                                                  GSE17721_4_VS_24H_CPG_BMDC_UP, GSE17721_4_VS_24H_CPG_BMDC_UP
                                                                                                  HP_ARTERIOVENOUS_MALFORMATION, HP_ARTERIOVENOUS_MALFORMATION
                                                                                                  MIR2467 5P, MIR2467 5P
                                                                                                  MIR3908, MIR3908
                                                                                                  GOCC_EXTRINSIC_COMPONENT_OF_ORGANELLE_MEMBRANE, GOCC_EXTRINSIC_COMPONENT_OF_ORGANELLE_MEMBRANE
                                                                                                  SESTO_RESPONSE_TO_UV_C8, SESTO_RESPONSE_TO_UV_C8
                                                                                                  HP_ABNORMAL_SHAPE_OF_THE_PALPEBRAL_FISSURE, HP_ABNORMAL_SHAPE_OF_THE_PALPEBRAL_FISSURE
                                                                                                  SMID BREAST CANCER RELAPSE IN BRAIN DN, SMID BREAST CANCER RELAPSE IN BRAIN DN
                                                                                                  GSE18281_SUBCAPSULAR_CORTICAL_REGION_VS_WHOLE_CORTEX_THYMUS_DN, GSE18281_SUBCAPSULAR_CORTICAL_REGION_VS_WHOLE_CORTEX_THYMUS_DN
                                                                                                  HP_CLUBBING_OF_TOES, HP_CLUBBING_OF_TOES
                                                                                                  HP_PYRIDOXINE_RESPONSIVE_SIDEROBLASTIC_ANEMIA, HP_PYRIDOXINE_RESPONSIVE_SIDEROBLASTIC_ANEMIA
                                                                                                  DOANE_BREAST_CANCER_ESR1_UP, DOANE_BREAST_CANCER_ESR1_UP
                                                                                                  GOCC_INCLUSION_BODY, GOCC_INCLUSION_BODY
                                                                                                  YTTCCNNNGGAMR_UNKNOWN, YTTCCNNNGGAMR_UNKNOWN
                                                                                                  HP LONG NOSE, HP LONG NOSE
                                                                                                  GSE15659_CD45RA_NEG_CD4_TCELL_VS_NONSUPPRESSIVE_TCELL_UP, GSE15659_CD45RA_NEG_CD4_TCELL_VS_NONSUPPRESSIVE_TCELL_UP
                                                                                                  SIG_PIP3_SIGNALING_IN_B_LYMPHOCYTES, SIG_PIP3_SIGNALING_IN_B_LYMPHOCYTES
                                                                                                  GSE17721_CPG_VS_GARDIQUIMOD_16H_BMDC_UP, GSE17721_CPG_VS_GARDIQUIMOD_16H_BMDC_UP
                                                                                                  GOCC_CLEAVAGE_FURROW, GOCC_CLEAVAGE_FURROW
                                                                                                  GOBP_UBIQUINONE_METABOLIC_PROCESS, GOBP_UBIQUINONE_METABOLIC_PROCESS
                                                                                                  HP_APLASIA_HYPOPLASIA_OF_THE_UVULA, HP_APLASIA_HYPOPLASIA_OF_THE_UVULA
                                                                                                  HP_DUODENAL_STENOSIS, HP_DUODENAL_STENOSIS
                                                                                                  GOMF_DNA_SECONDARY_STRUCTURE_BINDING, GOMF_DNA_SECONDARY_STRUCTURE_BINDING
                                                                                                  BIOCARTA_IL2RB_PATHWAY, BIOCARTA_IL2RB_PATHWAY
                                                                                                  WP_THYROID_HORMONES_PRODUCTION_AND_THEIR_PERIPHERAL_DOWNSTREAM_SIGNALLING_EFFECTS, WP_THYROID_HORMONES_PRODUCTION_AND_THEIR_PERIPHERAL_DOWNSTREAM_SIGNALLING_EFFECTS
                                                                                                  GOMF_DISULFIDE_OXIDOREDUCTASE_ACTIVITY, GOMF_DISULFIDE_OXIDOREDUCTASE_ACTIVITY
                                                                                                  WP_FACTORS_AND_PATHWAYS_AFFECTING_INSULINLIKE_GROWTH_FACTOR_IGF1AKT_SIGNALING, WP_FACTORS_AND_PATHWAYS_AFFECTING_INSULINLIKE_GROWTH_FACTOR_IGF1AKT_SIGNALING
                                                                                                  NIKOLSKY_BREAST_CANCER_16P13_AMPLICON, NIKOLSKY_BREAST_CANCER_16P13_AMPLICON
                                                                                                  GOMF_FOUR_WAY_JUNCTION_DNA_BINDING, GOMF_FOUR_WAY_JUNCTION_DNA_BINDING
                                                                                                  HP_HYDROURETER, HP_HYDROURETER
                                                                                                  MIR5704, MIR5704
                                                                                                  HP_SLEEP_APNEA, HP_SLEEP_APNEA
                                                                                                  HP_OVARIAN_NEOPLASM, HP_OVARIAN_NEOPLASM
                                                                                                  HP_BICORNUATE_UTERUS, HP_BICORNUATE_UTERUS
                                                                                                  WP_SYNAPTIC_SIGNALING_PATHWAYS_ASSOCIATED_WITH_AUTISM_SPECTRUM_DISORDER, WP_SYNAPTIC_SIGNALING_PATHWAYS_ASSOCIATED_WITH_AUTISM SPECTRUM DISORDER
                                                                                                  FARMER_BREAST_CANCER_CLUSTER_5, FARMER_BREAST_CANCER_CLUSTER_5
                                                                                                  HP_LUMBAR_HYPERLORDOSIS, HP_LUMBAR_HYPERLORDOSIS
                                                                                                  GOCC_SPINDLE_POLE_CENTROSOME, GOCC_SPINDLE_POLE_CENTROSOME
                                                                                                  HP_SPINAL_DEFORMITIES, HP_SPINAL_DEFORMITIES
                                                                                                  GOBP_POST_EMBRYONIC_DEVELOPMENT, GOBP_POST_EMBRYONIC_DEVELOPMENT
                                                                                                  MIR4650_5P, MIR4650_5P
                                                                                                  HP_ESOPHAGITIS, HP_ESOPHAGITIS
                                                                                                  WP_PI3KAKTMTOR_SIGNALING_PATHWAY_AND_THERAPEUTIC_OPPORTUNITIES, WP_PI3KAKTMTOR_SIGNALING_PATHWAY_AND_THERAPEUTIC_OPPORTUNITIES
                                                                                                  POOLA_INVASIVE_BREAST_CANCER_DN, POOLA_INVASIVE_BREAST_CANCER_DN
                                                                                                  GTGTGAG MIR342, GTGTGAG MIR342
                                                                                                  HP_INTESTINAL_PSEUDO_OBSTRUCTION, HP_INTESTINAL_PSEUDO_OBSTRUCTION
                                                                                                  HP_POOR_APPETITE, HP_POOR_APPETITE
                                                                                                  HP_HYPERCHOLESTEROLEMIA, HP_HYPERCHOLESTEROLEMIA
                                                                                                  MIR1229 5P, MIR1229 5P
                                                                                                  SA_B_CELL_RECEPTOR_COMPLEXES, SA_B_CELL_RECEPTOR_COMPLEXES
                                                                                                  YANG_BREAST_CANCER_ESR1_BULK_UP, YANG_BREAST_CANCER_ESR1_BULK_UP
                                                                                                  GOBP RESPONSE TO ELECTRICAL STIMULUS, GOBP RESPONSE TO ELECTRICAL STIMULUS
                                                                                                  GOMF_EXODEOXYRIBONUCLEASE_ACTIVITY, GOMF_EXODEOXYRIBONUCLEASE_ACTIVITY
                                                                                                  THAKAR_PBMC_INACTIVATED_INFLUENZA_AGE_21_30YO_VS_70PLS_0DY_UP, THAKAR_PBMC_INACTIVATED_INFLUENZA_AGE_21_30YO_VS_70PLS_0DY_UP
                                                                                                  REACTOME_SIGNALING_BY_FGFR1_IN_DISEASE, REACTOME_SIGNALING_BY_FGFR1_IN_DISEASE
                                                                                                  GOBP_HISTONE_H4_K20_METHYLATION, GOBP_HISTONE_H4_K20_METHYLATION
                                                                                                  GOBP_PROTON_TRANSPORTING_V_TYPE_ATPASE_COMPLEX_ASSEMBLY, GOBP_PROTON_TRANSPORTING_V_TYPE_ATPASE_COMPLEX_ASSEMBLY
                                                                                                  REACTOME_SIGNALLING_TO_ERKS, REACTOME_SIGNALLING_TO_ERKS
                                                                                                  MODULE_20, MODULE_20
                                                                                                  REACTOME_CREB1_PHOSPHORYLATION_THROUGH_NMDA_RECEPTOR_MEDIATED_ACTIVATION_OF_RAS_SIGNALING, REACTOME_CREB1_PHOSPHORYLATION_THROUGH_NMDA_RECEPTOR_MEDIATED_ACTIVATION_
                                                                                                 HOLLERN_ADENOMYOEPITHELIAL_BREAST_TUMOR, HOLLERN_ADENOMYOEPITHELIAL_BREAST_TUMOR
                                                                                                 HP_HEPATIC_CYSTS, HP_HEPATIC_CYSTS
                                                                                                 HP ABNORMAL LUMBAR SPINE MORPHOLOGY, HP ABNORMAL LUMBAR SPINE MORPHOLOGY
                                                                                                 YANG BREAST CANCER ESR1 UP, YANG BREAST CANCER ESR1 UP
                                                                                                 HP_ABNORMALITY_OF_HAND_JOINT_MOBILITY, HP_ABNORMALITY_OF_HAND_JOINT_MOBILITY
                                                                                                 HP_ABNORMAL_THALAMIC_MRI_SIGNAL_INTENSITY, HP_ABNORMAL_THALAMIC_MRI_SIGNAL_INTENSITY
                                                                                                 HP_LEFT_VENTRICULAR_SYSTOLIC_DYSFUNCTION, HP_LEFT_VENTRICULAR_SYSTOLIC_DYSFUNCTION
                                                                                                 HP_ABNORMAL_EATING_BEHAVIOR, HP_ABNORMAL_EATING_BEHAVIOR
                                                                                                  GOBP_MEMORY, GOBP_MEMORY
                                                                                                  HP_TYPE_1_MUSCLE_FIBER_PREDOMINANCE, HP_TYPE_1_MUSCLE_FIBER_PREDOMINANCE
                                                                                                  HP_ABNORMAL_CONSUMPTION_BEHAVIOR, HP_ABNORMAL_CONSUMPTION_BEHAVIOR
                                                                                                  HP_LONG_FOOT, HP_LONG_FOOT
                                                                                                  GOBP_REGULATION_OF_DNA_DEMETHYLATION, GOBP_REGULATION_OF_DNA_DEMETHYLATION
                                                                                                  REACTOME_WNT_MEDIATED_ACTIVATION_OF_DVL, REACTOME_WNT_MEDIATED_ACTIVATION_OF_DVL
                                                                                                  NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON, NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON
                                                                                                  REACTOME_CYTOSOLIC_IRON_SULFUR_CLUSTER_ASSEMBLY, REACTOME_CYTOSOLIC_IRON_SULFUR_CLUSTER_ASSEMBLY
                                                                                                  LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_DUCTAL_DN, LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_DUCTAL_DN
                                                                                                  GOBP_COENZYME_A_METABOLIC_PROCESS, GOBP_COENZYME_A_METABOLIC_PROCESS
                                                                                                  GOBP_REGULATION_OF_ACTIN_CYTOSKELETON_REORGANIZATION, GOBP_REGULATION_OF_ACTIN_CYTOSKELETON_REORGANIZATION
                                                                                                  GOBP_MITOCHONDRIAL_DNA_REPLICATION, GOBP_MITOCHONDRIAL_DNA_REPLICATION
                                                                                                  GOBP_RESPONSE_TO_LEUCINE, GOBP_RESPONSE_TO_LEUCINE
                                                                                                  HP_OLIGOMENORRHEA, HP_OLIGOMENORRHEA
                                                                                                 HP_SPASTIC_DYSARTHRIA, HP_SPASTIC_DYSARTHRIA
FNF_TREATED_TCONV_2H_DN, GSE18893_CTRL_VS_TNF_TREATED_TCONV_2H_DN
                                                                                                  HP_ABNORMAL_MUSCLE_FIBER_ALPHA_DYSTROGLYCAN, HP_ABNORMAL_MUSCLE_FIBER_ALPHA_DYSTROGLYCAN
                                                                                                  GOCC_NUCLEAR_INCLUSION_BODY, GOCC_NUCLEAR_INCLUSION_BODY
                                                                                                  GOBP_REGULATION_OF_HISTONE_H3_K9_ACETYLATION, GOBP_REGULATION_OF_HISTONE_H3_K9_ACETYLATION
                                                                                                  KYNG_NORMAL_AGING_UP, KYNG_NORMAL_AGING_UP
                                                                                                  REACTOME_CREB_PHOSPHORYLATION, REACTOME_CREB_PHOSPHORYLATION
                                                                                                  REACTOME_DEX_H_BOX_HELICASES_ACTIVATE_TYPE_I_IFN_AND_INFLAMMATORY_CYTOKINES_PRODUCTION, REACTOME_DEX_H_BOX_HELICASES_ACTIVATE_TYPE_I_IFN_AND_INFLAMMATORY_CYTOKINES_PRODUCTION, REACTOME_DEX_H_BOX_HELICASES_ACTIVATE_TYPE_I_IFN_AND_INFLAMMATORY_CYTOKINES_PRODUCTION, REACTOME_DEX_H_BOX_HELICASES_ACTIVATE_TYPE_I_IFN_AND_INFLAMMATORY_CYTOKINES_PRODUCTION, REACTOME_DEX_H_BOX_HELICASES_ACTIVATE_TYPE_I_IFN_AND_INFLAMMATORY_CYTOKINES_PRODUCTION, REACTOME_DEX_H_BOX_HELICASES_ACTIVATE_TYPE_I_IFN_AND_INFLAMMATORY_CYTOKINES_PRODUCTION, REACTOME_DEX_H_BOX_HELICASES_ACTIVATE_TYPE_I_IFN_AND_INFLAMMATORY_CYTOKINES_PRODUCTION, REACTOME_DEX_H_BOX_HELICASES_ACTIVATE_TYPE_I_IFN_AND_INFLAMMATORY_CYTOKINES_PRODUCTION,
                                                                                                  GOMF_IMPORTIN_ALPHA_FAMILY_PROTEIN_BINDING, GOMF_IMPORTIN_ALPHA_FAMILY_PROTEIN_BINDING
                                                                                                  DHIMAN_PBMC_ATTENUVAX_AGE_15_25YO_SUBQ_7_OR_14DY_UP, DHIMAN_PBMC_ATTENUVAX_AGE_15_25YO_SUBQ_7_OR_14DY_UP
                                                                                                  HEIDENBLAD_AMPLICON_12P11_12_DN, HEIDENBLAD_AMPLICON_12P11_12_DN
                                                                                                  HP_ABNORMAL_URINE_PHOSPHATE_CONCENTRATION, HP_ABNORMAL_URINE_PHOSPHATE_CONCENTRATION
                                                                                                  GOBP_REGULATION_OF_DNA_METHYLATION, GOBP_REGULATION_OF_DNA_METHYLATION
                                                                                                  HP_POLYPHAGIA, HP_POLYPHAGIA
                                                                                                  REACTOME_CHREBP_ACTIVATES_METABOLIC_GENE_EXPRESSION, REACTOME_CHREBP_ACTIVATES_METABOLIC_GENE_EXPRESSION
                                                                                                  GOCC_EXTRINSIC_COMPONENT_OF_ENDOPLASMIC_RETICULUM_MEMBRANE, GOCC_EXTRINSIC_COMPONENT_OF_ENDOPLASMIC_RETICULUM_MEMBRANE
                                                                                                  HP_NEOPLASM_OF_STRIATED_MUSCLE, HP_NEOPLASM_OF_STRIATED_MUSCLE
                                                                                                  IVANOV_MUTATED_IN_COLON_CANCER, IVANOV_MUTATED_IN_COLON_CANCER
                                                                                                  GOBP_HISTONE_H3_K9_ACETYLATION, GOBP_HISTONE_H3_K9_ACETYLATION
                                                                                                  HP_DEHYDRATION, HP_DEHYDRATION
                                                                                                  GOBP_PYRIMIDINE_RIBONUCLEOSIDE_MONOPHOSPHATE_METABOLIC_PROCESS, GOBP_PYRIMIDINE_RIBONUCLEOSIDE_MONOPHOSPHATE_METABOLIC_PROCESS
                                                                                                 HP_ELEVATED_ALKALINE_PHOSPHATASE_OF_BONE_ORIGIN, HP_ELEVATED_ALKALINE_PHOSPHATASE_OF_BONE_ORIGIN
                                                                                                  REACTOME_VEGFR2_MEDIATED_CELL_PROLIFERATION, REACTOME_VEGFR2_MEDIATED_CELL_PROLIFERATION
                                                                                                  WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_UP, WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_UP
                                                                                                  GOMF_SHORT_CHAIN_CARBOXYLESTERASE_ACTIVITY, GOMF_SHORT_CHAIN_CARBOXYLESTERASE_ACTIVITY
                                                                                                  HP_FUSION_OF_THE_CEREBELLAR_HEMISPHERES, HP_FUSION_OF_THE_CEREBELLAR_HEMISPHERES
                                                                                                  GOBP_POSITIVE_REGULATION_OF_NUCLEAR_CELL_CYCLE_DNA_REPLICATION, GOBP_POSITIVE_REGULATION_OF_NUCLEAR_CELL_CYCLE_DNA_REPLICATION
                                                                                                  HP_HYPOPHOSPHATEMIA, HP_HYPOPHOSPHATEMIA
                                                                                                  GOBP_NECROPTOTIC_SIGNALING_PATHWAY, GOBP_NECROPTOTIC_SIGNALING_PATHWAY
                                                                                                  GOBP_MESONEPHRIC_TUBULE_FORMATION, GOBP_MESONEPHRIC_TUBULE_FORMATION
                                                                                                  GOMF_PEPTIDE_DISULFIDE_OXIDOREDUCTASE_ACTIVITY, GOMF_PEPTIDE_DISULFIDE_OXIDOREDUCTASE_ACTIVITY
                                                                                                  GOMF_LIGAND_GATED_CALCIUM_CHANNEL_ACTIVITY, GOMF_LIGAND_GATED_CALCIUM_CHANNEL_ACTIVITY
                                                                                                  GOBP_POSITIVE_REGULATION_OF_CHEMOKINE_C_X_C_MOTIF_LIGAND_2_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_CHEMOKINE_C_X_C_MOTIF_LIGAND_2_PRODUCTION
                                                                                                  HP_ABNORMAL_INTERNAL_CAROTID_ARTERY_MORPHOLOGY, HP_ABNORMAL_INTERNAL_CAROTID_ARTERY_MORPHOLOGY
                                                                                                  GOCC_RISC_LOADING_COMPLEX, GOCC_RISC_LOADING_COMPLEX
                                                                                                  CAO_BLOOD_FLUMIST_AGE_05_14YO_7DY_DN, CAO_BLOOD_FLUMIST_AGE_05_14YO_7DY_DN
                                                                                                  GOBP_PROTEIN_HEXAMERIZATION, GOBP_PROTEIN_HEXAMERIZATION
                                                                                                  REACTOME ACTIVATED NTRK3 SIGNALS THROUGH RAS, REACTOME ACTIVATED NTRK3 SIGNALS THROUGH RAS
                                                                                                  MODULE_540, MODULE_540
                                                                                                  HP_ACETABULAR_DYSPLASIA, HP_ACETABULAR_DYSPLASIA
                                                                                                  REACTOME_SIGNALING_BY_NTRK2_TRKB, REACTOME_SIGNALING_BY_NTRK2_TRKB
                                                                                                  GOBP_ECTODERMAL_PLACODE_FORMATION, GOBP_ECTODERMAL_PLACODE_FORMATION
                                                                                                  HP_POSTERIOR_FOSSA_CYST, HP_POSTERIOR_FOSSA_CYST
                                                                                                  GOBP SINGLE STRAND BREAK REPAIR, GOBP SINGLE STRAND BREAK REPAIR
                                                                                                  HP B LYMPHOCYTOPENIA, HP B LYMPHOCYTOPENIA
                                                                                                  CASTELLANO_HRAS_TARGETS_DN, CASTELLANO_HRAS_TARGETS_DN
                                                                                                  HP_ABNORMALITY_OF_THE_TONGUE_MUSCLE, HP_ABNORMALITY_OF_THE_TONGUE_MUSCLE
                                                                                                  GOBP_RESPONSE_TO_INTERLEUKIN_3, GOBP_RESPONSE_TO_INTERLEUKIN_3
                                                                                                  GOBP_URETERIC_BUD_FORMATION, GOBP_URETERIC_BUD_FORMATION
                                                                                                  REACTOME_ACTIVATED_NTRK2_SIGNALS_THROUGH_FRS2_AND_FRS3, REACTOME_ACTIVATED_NTRK2_SIGNALS_THROUGH_FRS2_AND_FRS3
                                                                                                  GOBP_PROTEIN_LIPID_COMPLEX_ASSEMBLY, GOBP_PROTEIN_LIPID_COMPLEX_ASSEMBLY
                                                                                                  HP_POOR_GROSS_MOTOR_COORDINATION, HP_POOR_GROSS_MOTOR_COORDINATION
                                                                                                  GSE22025_UNTREATED_VS_TGFB1_AND_PROGESTERONE_TREATED_CD4_TCELL_DN, GSE22025_UNTREATED_VS_TGFB1_AND_PROGESTERONE_TREATED_CD4_TCELL_DN
                                                                                                  RAMJAUN_APOPTOSIS_BY_TGFB1_VIA_MAPK1_DN, RAMJAUN_APOPTOSIS_BY_TGFB1_VIA_MAPK1_DN
                                                                                                  HP_NARROW_ILIAC_WINGS, HP_NARROW_ILIAC_WINGS
                                                                                                  HP_RHABDOMYOSARCOMA, HP_RHABDOMYOSARCOMA
                                                                                                  GOBP_CHOLESTEROL_CATABOLIC_PROCESS, GOBP_CHOLESTEROL_CATABOLIC_PROCESS
                                                                                                  REACTOME_METALLOTHIONEINS_BIND_METALS, REACTOME_METALLOTHIONEINS_BIND_METALS
                                                                                                  REACTOME TRP CHANNELS, REACTOME TRP CHANNELS
                                                                                                  GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_5_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_5_PRODUCTION
                                                                                                  HP_APLASIA_HYPOPLASIA_OF_THE_COLON, HP_APLASIA_HYPOPLASIA_OF_THE_COLON
                                                                                                  GOCC BASEMENT MEMBRANE COLLAGEN TRIMER, GOCC BASEMENT MEMBRANE COLLAGEN TRIMER
                                                                                                  GOBP MESENCHYMAL STEM CELL DIFFERENTIATION, GOBP MESENCHYMAL STEM CELL DIFFERENTIATION
                                                                                                  REACTOME SHC_RELATED_EVENTS_TRIGGERED_BY_IGF1R, REACTOME_SHC_RELATED_EVENTS_TRIGGERED_BY_IGF1R
                                                                                                  GOCC_COLLAGEN_TYPE_IV_TRIMER, GOCC_COLLAGEN_TYPE_IV_TRIMER
                                                                                                  GOBP_REGULATION_OF_MITOCHONDRIAL_MRNA_STABILITY, GOBP_REGULATION_OF_MITOCHONDRIAL_MRNA_STABILITY
                                                                                                  FARDIN_HYPOXIA_9, FARDIN_HYPOXIA_9
                                                                                                  HP HYPERPHOSPHATURIA, HP HYPERPHOSPHATURIA
                                                                                                  ZHENG_FOXP3_TARGETS_IN_T_LYMPHOCYTE_UP, ZHENG_FOXP3_TARGETS_IN_T_LYMPHOCYTE_UP
                                                                                                  GOBP_POSITIVE_REGULATION_OF_HORMONE_METABOLIC_PROCESS, GOBP_POSITIVE_REGULATION_OF_HORMONE_METABOLIC_PROCESS
                                                                                                  GOMF_DIPEPTIDYL_PEPTIDASE_ACTIVITY, GOMF_DIPEPTIDYL_PEPTIDASE_ACTIVITY
                                                                                                  GOBP_ACTIVATION_OF_JNKK_ACTIVITY, GOBP_ACTIVATION_OF_JNKK_ACTIVITY
                                                                                                  GOBP_PIGMENT_GRANULE_MATURATION, GOBP_PIGMENT_GRANULE_MATURATION
                                                                                                  HP_LARYNGEAL_STENOSIS, HP_LARYNGEAL_STENOSIS
                                                                                                  GOBP_OTIC_VESICLE_DEVELOPMENT, GOBP_OTIC_VESICLE_DEVELOPMENT
                                                                                                  REACTOME_INSULIN_RECEPTOR_SIGNALLING_CASCADE, REACTOME_INSULIN_RECEPTOR_SIGNALLING_CASCADE
                                                                                                  HP_HYPEREXTENSIBILITY_OF_THE_FINGER_JOINTS, HP_HYPEREXTENSIBILITY_OF_THE_FINGER_JOINTS
                                                                                                  BIOCARTA_IL4_PATHWAY, BIOCARTA_IL4_PATHWAY
                                                                                                  GOBP_HEPATOCYTE_APOPTOTIC_PROCESS, GOBP_HEPATOCYTE_APOPTOTIC_PROCESS
                                                                                                  REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA_PKC_AND_MAPK, REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA_PKC_AND_MAPK
                                                                                                  HP_ABNORMAL_RENAL_CORTICOMEDULLARY_DIFFERENTIATION, HP_ABNORMAL_RENAL_CORTICOMEDULLARY_DIFFERENTIATION
                                                                                                  HP_ABNORMAL_THALAMIC_SIZE, HP_ABNORMAL_THALAMIC_SIZE
                                                                                                  HP_SKIN_PICKING, HP_SKIN_PICKING
                                                                                                  REACTOME_EGFR_TRANSACTIVATION_BY_GASTRIN, REACTOME_EGFR_TRANSACTIVATION_BY_GASTRIN
                                                                                                  REACTOME_ACTIVATED_NTRK2_SIGNALS_THROUGH_RAS, REACTOME_ACTIVATED_NTRK2_SIGNALS_THROUGH_RAS
                                                                                                  REACTOME_SOS_MEDIATED_SIGNALLING, REACTOME_SOS_MEDIATED_SIGNALLING
                                                                                                  GOMF_ACETYLESTERASE_ACTIVITY, GOMF_ACETYLESTERASE_ACTIVITY
                                                                                                  FOXF2 TARGET GENES, FOXF2 TARGET GENES
                                                                                                  TDRD3_TARGET_GENES, TDRD3_TARGET_GENES
                                                                                                  HP_HEAD_BANGING, HP_HEAD_BANGING
                                                                                                  GOBP_POSITIVE_REGULATION_OF_TRANSLATIONAL_ELONGATION, GOBP_POSITIVE_REGULATION_OF_TRANSLATIONAL_ELONGATION
                                                                                                  GOBP_POSITIVE_REGULATION_OF_DNA_DEMETHYLATION, GOBP_POSITIVE_REGULATION_OF_DNA_DEMETHYLATION
                                                                                                 GOCC_EQUATORIAL_MICROTUBULE_ORGANIZING_CENTER, GOCC_EQUATORIAL_MICROTUBULE_ORGANIZING_CENTER
                                                                                                  GOMF_FATTY_ACID_OMEGA_HYDROXYLASE_ACTIVITY, GOMF_FATTY_ACID_OMEGA_HYDROXYLASE_ACTIVITY
                                                                                                  HP_DILATATION_OF_THE_VENTRICULAR_CAVITY, HP_DILATATION_OF_THE_VENTRICULAR_CAVITY
                                                                                                  HP_ADRENOCORTICOTROPIC_HORMONE_DEFICIENCY, HP_ADRENOCORTICOTROPIC_HORMONE_DEFICIENCY
                                                                                                  GOMF_JUN_KINASE_KINASE_KINASE_ACTIVITY, GOMF_JUN_KINASE_KINASE_KINASE_ACTIVITY
                                                                                                  HP_SMALL_PITUITARY_GLAND, HP_SMALL_PITUITARY_GLAND
                                                                                                  RICHERT_PBMC_HIV_LIPO_5_AGE_37_48YO_STIMULATED_VS_UNSTIMULATED_0W_14W_METALLOTHIONEIN_SUBSET_UP, RICHERT_PBMC_HIV_LIPO_5_AGE_37_48YO_STIMULATED_VS_UNSTIMULATED_0W_14W_METALL
                                                                                                  GOBP_PURINE_DEOXYRIBONUCLEOTIDE_CATABOLIC_PROCESS, GOBP_PURINE_DEOXYRIBONUCLEOTIDE_CATABOLIC_PROCESS
                                                                                                  GOBP_RNA_SECONDARY_STRUCTURE_UNWINDING, GOBP_RNA_SECONDARY_STRUCTURE_UNWINDING
                                                                                                  REACTOME_COENZYME_A_BIOSYNTHESIS, REACTOME_COENZYME_A_BIOSYNTHESIS
                                                                                                  GOMF_INOSITOL_1_4_5_TRISPHOSPHATE_BINDING, GOMF_INOSITOL_1_4_5_TRISPHOSPHATE_BINDING
                                                                                                  GOBP_ENDODERMAL_CELL_FATE_COMMITMENT, GOBP_ENDODERMAL_CELL_FATE_COMMITMENT
                                                                                                  WACKER_HYPOXIA_TARGETS_OF_VHL, WACKER_HYPOXIA_TARGETS_OF_VHL
                                                                                                  GOBP_GLIAL_CELL_DERIVED_NEUROTROPHIC_FACTOR_RECEPTOR_SIGNALING_PATHWAY, GOBP_GLIAL_CELL_DERIVED_NEUROTROPHIC_FACTOR_RECEPTOR_SIGNALING_PATHWAY
                                                                                                  GOBP_HYPERSENSITIVITY, GOBP_HYPERSENSITIVITY
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BOYAULT LIVER CANCER SUBCLASS G23 DN, BOYAULT LIVER CANCER SUBCLASS G23 DN

HP_EPILEPSIA_PARTIALIS_CONTINUA, HP_EPILEPSIA_PARTIALIS_CONTINUA

HP_ABNORMAL_TEMPER_TANTRUMS, HP_ABNORMAL_TEMPER_TANTRUMS

LI_WILMS_TUMOR_ANAPLASTIC_DN, LI_WILMS_TUMOR_ANAPLASTIC_DN

HP_SUDDEN_LOSS_OF_VISUAL_ACUITY, HP_SUDDEN_LOSS_OF_VISUAL_ACUITY

GOBP_RESPONSE_TO_ERYTHROPOIETIN, GOBP_RESPONSE_TO_ERYTHROPOIETIN

HAY_BONE_MARROW_CD34_POS_MEP, HAY_BONE_MARROW_CD34_POS_MEP

HP_CRANIAL_NERVE_VI_PALSY, HP_CRANIAL_NERVE_VI_PALSY

HP_MENINGOENCEPHALOCELE, HP_MENINGOENCEPHALOCELE

GOMF_Y_FORM_DNA_BINDING, GOMF_Y_FORM_DNA_BINDING

REACTOME_ELEVATION_OF_CYTOSOLIC_CA2_LEVELS, REACTOME_ELEVATION_OF_CYTOSOLIC_CA2_LEVELS

GOBP_IMMUNOGLOBULIN_V_D_J_RECOMBINATION, GOBP_IMMUNOGLOBULIN_V_D_J_RECOMBINATION

GOBP_NEGATIVE_REGULATION_OF_VIRAL_LIFE_CYCLE, GOBP_NEGATIVE_REGULATION_OF_VIRAL_LIFE_CYCLE

HP_ABNORMAL_SERUM_INSULIN_LIKE_GROWTH_FACTOR_1_LEVEL, HP_ABNORMAL_SERUM_INSULIN_LIKE_GROWTH_FACTOR_1_LEVEL

HP_ADRENOCORTICOTROPIN_DEFICIENT_ADRENAL_INSUFFICIENCY, HP_ADRENOCORTICOTROPIN_DEFICIENT_ADRENAL_INSUFFICIENCY

REACTOME_ESTROGEN_STIMULATED_SIGNALING_THROUGH_PRKCZ, REACTOME_ESTROGEN_STIMULATED_SIGNALING_THROUGH_PRKCZ

HP_SEPTATE_VAGINA, HP_SEPTATE_VAGINA

GOCC_CIA_COMPLEX, GOCC_CIA_COMPLEX

HP_MEGACYSTIS, HP_MEGACYSTIS