```
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
                                                                                                          GSE19888_NO_PRETREAT_VS_ADENOSINE_A3R_INHIBITOR_PRETREATED_MAST_CELL_TCELL_MEMBRANES_ACT_UP, GSE19888_NO_PRETREAT_VS_ADENOSINE_A3R_INHIBITOR_PRETREATED_MAST_CELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCELL_TCE
                                                                                                          GSE27786 LIN NEG VS NKCELL UP, GSE27786 LIN NEG VS NKCELL UP
                                                                                                         GSE5542_IFNA_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_6H_DN, GSE5542_IFNA_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_6H_DN
                                                                                                         GSE17721_LPS_VS_POLYIC_8H_BMDC_UP, GSE17721_LPS_VS_POLYIC_8H_BMDC_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
                                                                                                          GSE14308_TH1_VS_NAIVE_CD4_TCELL_DN, GSE14308_TH1_VS_NAIVE_CD4_TCELL_DN
                                                                                                         HP_ABNORMAL_UTERUS_MORPHOLOGY, HP_ABNORMAL_UTERUS_MORPHOLOGY
                                                                                                         GSE22589_HEALTHY_VS_SIV_INFECTED_DC_DN, GSE22589_HEALTHY_VS_SIV_INFECTED_DC_DN
                                                                                                         GSE21546_WT_VS_ELK1_KO_ANTI_CD3_STIM_DP_THYMOCYTES_UP, GSE21546_WT_VS_ELK1_KO_ANTI_CD3_STIM_DP_THYMOCYTES_UP
                                                                                                         GSE17721_PAM3CSK4_VS_GADIQUIMOD_4H_BMDC_UP, GSE17721_PAM3CSK4_VS_GADIQUIMOD_4H_BMDC_UP
                                                                                                          HP_IRREGULAR_HYPERPIGMENTATION, HP_IRREGULAR_HYPERPIGMENTATION
                                                                                                         GOMF_DEOXYRIBONUCLEASE_ACTIVITY, GOMF_DEOXYRIBONUCLEASE_ACTIVITY
                                                                                                         HP_RAGGED_RED_MUSCLE_FIBERS, HP_RAGGED_RED_MUSCLE_FIBERS
                                                                                                         HP_ABNORMAL_CAROTID_ARTERY_MORPHOLOGY, HP_ABNORMAL_CAROTID_ARTERY_MORPHOLOGY
                                                                                                         HP_ABNORMAL_ILEUM_MORPHOLOGY, HP_ABNORMAL_ILEUM_MORPHOLOGY
                                                                                                         WP_THERMOGENESIS, WP_THERMOGENESIS
                                                                                                         HP_ABNORMALITY_OF_CHROMOSOME_STABILITY, HP_ABNORMALITY_OF_CHROMOSOME_STABILITY
                                                                                                         HP_ABNORMALITY_OF_THE_PREPUTIUM, HP_ABNORMALITY_OF_THE_PREPUTIUM
                                                                                                         GSE17721_4_VS_24H_CPG_BMDC_UP, GSE17721_4_VS_24H_CPG_BMDC_UP
                                                                                                         GSE26928 CENTR MEMORY VS CXCR5 POS CD4 TCELL UP, GSE26928 CENTR MEMORY VS CXCR5 POS CD4 TCELL UP
                                                                                                         MARIADASON_RESPONSE_TO_BUTYRATE_SULINDAC_6, MARIADASON_RESPONSE_TO_BUTYRATE_SULINDAC_6
                                                                                                         HP ABSENT TESTIS, HP ABSENT TESTIS
                                                                                                         HP_APLASIA_HYPOPLASIA_OF_THE_UVULA, HP_APLASIA_HYPOPLASIA_OF_THE_UVULA
                                                                                                         HP_ABNORMAL_SHAPE_OF_THE_PALPEBRAL_FISSURE, HP_ABNORMAL_SHAPE_OF_THE_PALPEBRAL_FISSURE
                                                                                                         GOMF_DNA_SECONDARY_STRUCTURE_BINDING, GOMF_DNA_SECONDARY_STRUCTURE_BINDING
                                                                                                         MCM2_TARGET_GENES, MCM2_TARGET_GENES
                                                                                                         HP_CLUBBING_OF_TOES, HP_CLUBBING_OF_TOES
                                                                                                         HP_PROGRESSIVE_EXTERNAL_OPHTHALMOPLEGIA, HP_PROGRESSIVE_EXTERNAL_OPHTHALMOPLEGIA
                                                                                                         HP_DUODENAL_STENOSIS, HP_DUODENAL_STENOSIS
                                                                                                         GSE15659_CD45RA_NEG_CD4_TCELL_VS_NONSUPPRESSIVE_TCELL_UP, GSE15659_CD45RA_NEG_CD4_TCELL_VS_NONSUPPRESSIVE_TCELL_UP
                                                                                                         GSE18148_CBFB_KO_VS_WT_TREG_DN, GSE18148_CBFB_KO_VS_WT_TREG_DN
                                                                                                         HP_PYRIDOXINE_RESPONSIVE_SIDEROBLASTIC_ANEMIA, HP_PYRIDOXINE_RESPONSIVE_SIDEROBLASTIC_ANEMIA
                                                                                                         HP_SLEEP_APNEA, HP_SLEEP_APNEA
                                                                                                         GCM_SUPT4H1, GCM_SUPT4H1
                                                                                                         HP_ARTERIOVENOUS_MALFORMATION, HP_ARTERIOVENOUS_MALFORMATION
                                                                                                         GSE18281_SUBCAPSULAR_CORTICAL_REGION_VS_WHOLE_CORTEX_THYMUS_DN, GSE18281_SUBCAPSULAR_CORTICAL_REGION_VS_WHOLE_CORTEX_THYMUS_DN
                                                                                                         GOBP_UBIQUINONE_METABOLIC_PROCESS, GOBP_UBIQUINONE_METABOLIC_PROCESS
                                                                                                         BIOCARTA ATRBRCA PATHWAY, BIOCARTA ATRBRCA PATHWAY
                                                                                                         GOCC EXTRINSIC COMPONENT OF ORGANELLE MEMBRANE, GOCC EXTRINSIC COMPONENT OF ORGANELLE MEMBRANE
                                                                                                          HP_ESOPHAGITIS, HP_ESOPHAGITIS
                                                                                                         HP_HYPERGONADOTROPIC_HYPOGONADISM, HP_HYPERGONADOTROPIC_HYPOGONADISM
                                                                                                         YTTCCNNNGGAMR_UNKNOWN, YTTCCNNNGGAMR_UNKNOWN
                                                                                                         SA_B_CELL_RECEPTOR_COMPLEXES, SA_B_CELL_RECEPTOR_COMPLEXES
                                                                                                         HP_PROGRESSIVE_HEARING_IMPAIRMENT, HP_PROGRESSIVE_HEARING_IMPAIRMENT
                                                                                                         HP_LONG_FOOT, HP_LONG_FOOT
                                                                                                         HP_RECURRENT_PNEUMONIA, HP_RECURRENT_PNEUMONIA
                                                                                                         LIU_TARGETS_OF_VMYB_VS_CMYB_DN, LIU_TARGETS_OF_VMYB_VS_CMYB_DN
                                                                                                         GOBP_MITOCHONDRIAL_GENOME_MAINTENANCE, GOBP_MITOCHONDRIAL_GENOME_MAINTENANCE
                                                                                                          GOMF_LIGAND_GATED_CALCIUM_CHANNEL_ACTIVITY, GOMF_LIGAND_GATED_CALCIUM_CHANNEL_ACTIVITY
                                                                                                         HP_PROSTATE_NEOPLASM, HP_PROSTATE_NEOPLASM
                                                                                                         SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_DN, SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_DN
                                                                                                         NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON, NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON
                                                                                                         YANG_BREAST_CANCER_ESR1_UP, YANG_BREAST_CANCER_ESR1_UP
                                                                                                         GOMF_CALCIUM_RELEASE_CHANNEL_ACTIVITY, GOMF_CALCIUM_RELEASE_CHANNEL_ACTIVITY
                                                                                                         GTGTGAG_MIR342, GTGTGAG_MIR342
                                                                                                         HP_PROGRESSIVE_SPASTICITY, HP_PROGRESSIVE_SPASTICITY
                                                                                                         HP_TONGUE_FASCICULATIONS, HP_TONGUE_FASCICULATIONS
                                                                                                         GOBP_MITOCHONDRIAL_DNA_REPLICATION, GOBP_MITOCHONDRIAL_DNA_REPLICATION
                                                                                                          GOBP_REGULATION_OF_OXIDATIVE_STRESS_INDUCED_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY, GOBP_REGULATION_OF_OXIDATIVE_STRESS_INDUCED_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY
                                                                                                         MIR7855_5P, MIR7855_5P
                                                                                                         POOLA_INVASIVE_BREAST_CANCER_DN, POOLA_INVASIVE_BREAST_CANCER_DN
                                                                                                         LEE_LIVER_CANCER_CIPROFIBRATE_UP, LEE_LIVER_CANCER_CIPROFIBRATE_UP
                                                                                                         HP_HYPERCHOLESTEROLEMIA, HP_HYPERCHOLESTEROLEMIA
                                                                                                          GOBP_BLASTOCYST_GROWTH, GOBP_BLASTOCYST_GROWTH
                                                                                                         HP_HEPATIC_CYSTS, HP_HEPATIC_CYSTS
                                                                                                         HP_ABNORMALITY_OF_HAND_JOINT_MOBILITY, HP_ABNORMALITY_OF_HAND_JOINT_MOBILITY
                                                                                                          DOANE_BREAST_CANCER_ESR1_UP, DOANE_BREAST_CANCER_ESR1_UP
                                                                                                          MATHEW_FANCONI_ANEMIA_GENES, MATHEW_FANCONI_ANEMIA_GENES
                                                                                                          MODULE 20, MODULE 20
                                                                                                         WP_AIRWAY_SMOOTH_MUSCLE_CELL_CONTRACTION, WP_AIRWAY_SMOOTH_MUSCLE_CELL_CONTRACTION
                                                                                                          GOCC_BRCA1_A_COMPLEX, GOCC_BRCA1_A_COMPLEX
                                                                                                         HP_HYPOPHOSPHATEMIA, HP_HYPOPHOSPHATEMIA
                                                                                                         HP_PORENCEPHALIC_CYST, HP_PORENCEPHALIC_CYST
                                                                                                          REACTOME_SIGNALING_BY_FGFR1_IN_DISEASE, REACTOME_SIGNALING_BY_FGFR1_IN_DISEASE
                                                                                                         HP_ABNORMAL_URINE_PHOSPHATE_CONCENTRATION, HP_ABNORMAL_URINE_PHOSPHATE_CONCENTRATION
                                                                                                          REACTOME_CREB1_PHOSPHORYLATION_THROUGH_NMDA_RECEPTOR_MEDIATED_ACTIVATION_OF_RAS_SIGNALING, REACTOME_CREB1_PHOSPHORYLATION_THROUGH_NMDA_RECEPTOR_MEDIATED_ACTIVATION_
                                                                                                         IVANOV_MUTATED_IN_COLON_CANCER, IVANOV_MUTATED_IN_COLON_CANCER
                                                                                                         GOBP_POSITIVE_REGULATION_OF_HISTONE_H3_K4_METHYLATION, GOBP_POSITIVE_REGULATION_OF_HISTONE_H3_K4_METHYLATION
                                                                                                          MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_DN, MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_DN
                                                                                                         GOBP_POSITIVE_REGULATION_OF_ANIMAL_ORGAN_MORPHOGENESIS, GOBP_POSITIVE_REGULATION_OF_ANIMAL_ORGAN_MORPHOGENESIS
                                                                                                          GOMF_PROTEIN_DISULFIDE_ISOMERASE_ACTIVITY, GOMF_PROTEIN_DISULFIDE_ISOMERASE_ACTIVITY
                                                                                                         HP LEFT VENTRICULAR SYSTOLIC DYSFUNCTION, HP LEFT VENTRICULAR SYSTOLIC DYSFUNCTION
                                                                                                         GOMF_INTRACELLULAR_LIGAND_GATED_ION_CHANNEL_ACTIVITY, GOMF_INTRACELLULAR_LIGAND_GATED_ION_CHANNEL_ACTIVITY
                                                                                                         HP_OBSTRUCTIVE_SLEEP_APNEA, HP_OBSTRUCTIVE_SLEEP_APNEA
                                                                                                         HP_EPIDERMAL_NEVUS, HP_EPIDERMAL_NEVUS
                                                                                                         HP_ABNORMAL_GLOMERULAR_FILTRATION_RATE, HP_ABNORMAL_GLOMERULAR_FILTRATION_RATE
                                                                                                         HP_SPINAL_DEFORMITIES, HP_SPINAL_DEFORMITIES
                                                                                                         GOBP_PYRIMIDINE_RIBONUCLEOSIDE_MONOPHOSPHATE_METABOLIC_PROCESS, GOBP_PYRIMIDINE_RIBONUCLEOSIDE_MONOPHOSPHATE_METABOLIC_PROCESS
                                                                                                         GOBP_REGULATION_OF_DNA_METHYLATION, GOBP_REGULATION_OF_DNA_METHYLATION
                                                                                                         REACTOME_CYTOSOLIC_IRON_SULFUR_CLUSTER_ASSEMBLY, REACTOME_CYTOSOLIC_IRON_SULFUR_CLUSTER_ASSEMBLY
                                                                                                         HOLLERN_ADENOMYOEPITHELIAL_BREAST_TUMOR, HOLLERN_ADENOMYOEPITHELIAL_BREAST_TUMOR
                                                                                                         HP_HYPEREXTENSIBILITY_OF_THE_FINGER_JOINTS, HP_HYPEREXTENSIBILITY_OF_THE_FINGER_JOINTS
                                                                                                         HP_POOR_GROSS_MOTOR_COORDINATION, HP_POOR_GROSS_MOTOR_COORDINATION
                                                                                                         GOBP_NUCLEOTIDE_SUGAR_TRANSMEMBRANE_TRANSPORT, GOBP_NUCLEOTIDE_SUGAR_TRANSMEMBRANE_TRANSPORT
                                                                                                         HP_FUSION_OF_THE_CEREBELLAR_HEMISPHERES, HP_FUSION_OF_THE_CEREBELLAR_HEMISPHERES
                                                                                                         BIOCARTA_BARD1_PATHWAY, BIOCARTA_BARD1_PATHWAY
                                                                                                         BAHD1_TARGET_GENES, BAHD1_TARGET_GENES
                                                                                                          GOBP_PROTEIN_LIPID_COMPLEX_ASSEMBLY, GOBP_PROTEIN_LIPID_COMPLEX_ASSEMBLY
                                                                                                         HP HYPERPHOSPHATURIA, HP HYPERPHOSPHATURIA
                                                                                                          GOBP_MESENCHYMAL_STEM_CELL_DIFFERENTIATION, GOBP_MESENCHYMAL_STEM_CELL_DIFFERENTIATION
                                                                                                          REACTOME_REGULATION_OF_PTEN_LOCALIZATION, REACTOME_REGULATION_OF_PTEN_LOCALIZATION
                                                                                                          HP_DIMINISHED_ABILITY_TO_CONCENTRATE, HP_DIMINISHED_ABILITY_TO_CONCENTRATE
                                                                                                          REACTOME_MET_ACTIVATES_RAS_SIGNALING, REACTOME_MET_ACTIVATES_RAS_SIGNALING
                                                                                                          CAO_BLOOD_FLUMIST_AGE_05_14YO_7DY_DN, CAO_BLOOD_FLUMIST_AGE_05_14YO_7DY_DN
                                                                                                          HP_PSEUDOEPIPHYSES_OF_THE_METACARPALS, HP_PSEUDOEPIPHYSES_OF_THE_METACARPALS
                                                                                                         HP_EPILEPSIA_PARTIALIS_CONTINUA, HP_EPILEPSIA_PARTIALIS_CONTINUA
                                                                                                         HALLMARK_APICAL_SURFACE, HALLMARK_APICAL_SURFACE
                                                                                                         KYNG_NORMAL_AGING_UP, KYNG_NORMAL_AGING_UP
                                                                                                         GOBP_NEPHRIC_DUCT_MORPHOGENESIS, GOBP_NEPHRIC_DUCT_MORPHOGENESIS
TNF_TREATED_TCONV_2H_DN, GSE18893_CTRL_VS_TNF_TREATED_TCONV_2H_DN
                                                                                                          HP_ABSENCE_OF_THE_SACRUM, HP_ABSENCE_OF_THE_SACRUM
                                                                                                          HP_MUSCLE_FIBER_NECROSIS, HP_MUSCLE_FIBER_NECROSIS
                                                                                                          GOBP_STRIATED_MUSCLE_ATROPHY, GOBP_STRIATED_MUSCLE_ATROPHY
                                                                                                          HP_PANCREATIC_ISLET_CELL_ADENOMA, HP_PANCREATIC_ISLET_CELL_ADENOMA
                                                                                                          HP_SUBCUTANEOUS_LIPOMA, HP_SUBCUTANEOUS_LIPOMA
                                                                                                          WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_UP, WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_UP
                                                                                                          chr8p11, chr8p11
                                                                                                          GOBP_APOPTOTIC_DNA_FRAGMENTATION, GOBP_APOPTOTIC_DNA_FRAGMENTATION
                                                                                                          GOBP_OLFACTORY_BULB_INTERNEURON_DIFFERENTIATION, GOBP_OLFACTORY_BULB_INTERNEURON_DIFFERENTIATION
                                                                                                          GOBP_REGULATION_OF_SKELETAL_MUSCLE_TISSUE_GROWTH, GOBP_REGULATION_OF_SKELETAL_MUSCLE_TISSUE_GROWTH
                                                                                                          GOBP_AORTA_SMOOTH_MUSCLE_TISSUE_MORPHOGENESIS, GOBP_AORTA_SMOOTH_MUSCLE_TISSUE_MORPHOGENESIS
                                                                                                          GOBP_MACROPHAGE_INFLAMMATORY_PROTEIN_1_ALPHA_PRODUCTION, GOBP_MACROPHAGE_INFLAMMATORY_PROTEIN_1_ALPHA_PRODUCTION
                                                                                                          GOCC_CIA_COMPLEX, GOCC_CIA_COMPLEX
                                                                                                          GOMF_JUN_KINASE_KINASE_KINASE_ACTIVITY, GOMF_JUN_KINASE_KINASE_KINASE_ACTIVITY
                                                                                                          HP_NEOPLASM_OF_THE_TRACHEOBRONCHIAL_SYSTEM, HP_NEOPLASM_OF_THE_TRACHEOBRONCHIAL_SYSTEM
                                                                                                         GOMF_NEUROTRANSMITTER_RECEPTOR_REGULATOR_ACTIVITY, GOMF_NEUROTRANSMITTER_RECEPTOR_REGULATOR_ACTIVITY
                                                                                                         GOBP_ACTIVATION_OF_JNKK_ACTIVITY, GOBP_ACTIVATION_OF_JNKK_ACTIVITY
                                                                                                         HP_DECREASED_VIGILANCE, HP_DECREASED_VIGILANCE
                                                                                                         GOBP_PROSTATE_GLANDULAR_ACINUS_DEVELOPMENT, GOBP_PROSTATE_GLANDULAR_ACINUS_DEVELOPMENT
                                                                                                         GOBP_XENOPHAGY, GOBP_XENOPHAGY
                                                                                                          REACTOME_PLATELET_ADHESION_TO_EXPOSED_COLLAGEN, REACTOME_PLATELET_ADHESION_TO_EXPOSED_COLLAGEN
                                                                                                         HP_GENERALIZED_OSTEOPOROSIS, HP_GENERALIZED_OSTEOPOROSIS
                                                                                                         GOBP_REGULATION_OF_DEACETYLASE_ACTIVITY, GOBP_REGULATION_OF_DEACETYLASE_ACTIVITY
                                                                                                         HP_ABNORMALITY_OF_THE_TONGUE_MUSCLE, HP_ABNORMALITY_OF_THE_TONGUE_MUSCLE
                                                                                                         HP_CHRONIC_ACTIVE_HEPATITIS, HP_CHRONIC_ACTIVE_HEPATITIS
                                                                                                         GOBP_CHEMOKINE_C_X_C_MOTIF_LIGAND_2_PRODUCTION, GOBP_CHEMOKINE_C_X_C_MOTIF_LIGAND_2_PRODUCTION
                                                                                                         GOBP_PYRIMIDINE_NUCLEOTIDE_SALVAGE, GOBP_PYRIMIDINE_NUCLEOTIDE_SALVAGE
                                                                                                          GOMF_NAADP_SENSITIVE_CALCIUM_RELEASE_CHANNEL_ACTIVITY, GOMF_NAADP_SENSITIVE_CALCIUM_RELEASE_CHANNEL_ACTIVITY
                                                                                                         HP_MEGACYSTIS, HP_MEGACYSTIS
                                                                                                          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_SUBSET_UP, RICHERT_PBMC_SUBSET_UP, RICHERT_PBMC_SUBSET_UP, RICHERT_PBMC_SUBSET_UP, RICHERT_PBMC_SUBSET_UP, RICHERT_PBMC_SUBSET_UP, RICHERT_PBMC_SUBSET_UP, RICHERT_PBMC_SUBSET_UP, RICHERT_PBMC_SUBSET_UP, RICHERT_PBMC_SUBSET_UP, RICHERT_PB
                                                                                                         HP_ABNORMAL_RAPID_EYE_MOVEMENT_SLEEP, HP_ABNORMAL_RAPID_EYE_MOVEMENT_SLEEP
                                                                                                         HP_PAIN_INSENSITIVITY, HP_PAIN_INSENSITIVITY
                                                                                                          REACTOME_TRP_CHANNELS, REACTOME_TRP_CHANNELS
                                                                                                         GOMF_ATP_GATED_ION_CHANNEL_ACTIVITY, GOMF_ATP_GATED_ION_CHANNEL_ACTIVITY
                                                                                                          HP_ABNORMAL_CIRCULATING_CERULOPLASMIN_CONCENTRATION, HP_ABNORMAL_CIRCULATING_CERULOPLASMIN_CONCENTRATION
                                                                                                         HP_GLUCAGONOMA, HP_GLUCAGONOMA
                                                                                                          GOBP_OLFACTORY_BULB_INTERNEURON_DEVELOPMENT, GOBP_OLFACTORY_BULB_INTERNEURON_DEVELOPMENT
                                                                                                          GOBP_SENSORY_PERCEPTION_OF_UMAMI_TASTE, GOBP_SENSORY_PERCEPTION_OF_UMAMI_TASTE
                                                                                                          HP_LARGE_CAFE_AU_LAIT_MACULES_WITH_IRREGULAR_MARGINS, HP_LARGE_CAFE_AU_LAIT_MACULES_WITH_IRREGULAR_MARGINS
                                                                                                          GOBP_PROSTATE_GLANDULAR_ACINUS_MORPHOGENESIS, GOBP_PROSTATE_GLANDULAR_ACINUS_MORPHOGENESIS
                                                                                                          REACTOME ESTROGEN_STIMULATED_SIGNALING_THROUGH_PRKCZ, REACTOME_ESTROGEN_STIMULATED_SIGNALING_THROUGH_PRKCZ
                                                                                                          GCM_PRKCG, GCM_PRKCG
                                                                                                          HP_DILATATION_OF_THE_BLADDER, HP_DILATATION_OF_THE_BLADDER
                                                                                                          GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_13_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_13_PRODUCTION
                                                                                                          REACTOME_METALLOTHIONEINS_BIND_METALS, REACTOME_METALLOTHIONEINS_BIND_METALS
                                                                                                          chr16q13, chr16q13
                                                                                                          GOBP_SKELETAL_MUSCLE_TISSUE_GROWTH, GOBP_SKELETAL_MUSCLE_TISSUE_GROWTH
                                                                                                         HP_DUODENAL_ULCER, HP_DUODENAL_ULCER
                                                                                                          HP_NEOPLASM_OF_THE_THYMUS, HP_NEOPLASM_OF_THE_THYMUS
                                                                                                         GOCC_COLLAGEN_TYPE_IV_TRIMER, GOCC_COLLAGEN_TYPE_IV_TRIMER
                                                                                                          REACTOME INSULIN RECEPTOR SIGNALLING CASCADE, REACTOME INSULIN RECEPTOR SIGNALLING CASCADE
                                                                                                         GOBP_NEGATIVE_REGULATION_OF_CARDIAC_MUSCLE_CELL_DIFFERENTIATION, GOBP_NEGATIVE_REGULATION_OF_CARDIAC_MUSCLE_CELL_DIFFERENTIATION
                                                                                                          REACTOME_IRS_MEDIATED_SIGNALLING, REACTOME_IRS_MEDIATED_SIGNALLING
                                                                                                         REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR1, REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR1
                                                                                                         GOBP_INTERLEUKIN_18_PRODUCTION, GOBP_INTERLEUKIN_18_PRODUCTION
                                                                                                          REACTOME_SHC_MEDIATED_CASCADE_FGFR3, REACTOME_SHC_MEDIATED_CASCADE_FGFR3
                                                                                                         MIR8056, MIR8056
                                                                                                          REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR3, REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR3
                                                                                                         HP_DISTAL_RENAL_TUBULAR_ACIDOSIS, HP_DISTAL_RENAL_TUBULAR_ACIDOSIS
                                                                                                         HP_PARATHYROID_DYSGENESIS, HP_PARATHYROID_DYSGENESIS
                                                                                                         HP_DYSGAMMAGLOBULINEMIA, HP_DYSGAMMAGLOBULINEMIA
                                                                                                         HP_ALVEOLAR_RHABDOMYOSARCOMA, HP_ALVEOLAR_RHABDOMYOSARCOMA
                                                                                                         HP_INSULINOMA, HP_INSULINOMA
                                                                                                          GOBP_POSITIVE_REGULATION_OF_SKELETAL_MUSCLE_TISSUE_GROWTH, GOBP_POSITIVE_REGULATION_OF_SKELETAL_MUSCLE_TISSUE_GROWTH
                                                                                                          TDRD3_TARGET_GENES, TDRD3_TARGET_GENES
                                                                                                          GOBP_MESONEPHRIC_TUBULE_FORMATION, GOBP_MESONEPHRIC_TUBULE_FORMATION
                                                                                                          REACTOME HDL ASSEMBLY, REACTOME HDL ASSEMBLY
                                                                                                         GOBP_T_HELPER_2_CELL_CYTOKINE_PRODUCTION, GOBP_T_HELPER_2_CELL_CYTOKINE_PRODUCTION
                                                                                                         HP_ABNORMAL_CIRCULATING_ALDOSTERONE, HP_ABNORMAL_CIRCULATING_ALDOSTERONE
                                                                                                         BIOCARTA_NPP1_PATHWAY, BIOCARTA_NPP1_PATHWAY
                                                                                                         HP_CHRONIC_HEPATITIS, HP_CHRONIC_HEPATITIS
                                                                                                         SMID BREAST CANCER NORMAL LIKE DN, SMID BREAST CANCER NORMAL LIKE DN
                                                                                                         HP INCREASED LEVEL OF L FUCOSE IN URINE, HP INCREASED LEVEL OF L FUCOSE IN URINE
                                                                                                         GOBP_SENSORY_PERCEPTION_OF_SWEET_TASTE, GOBP_SENSORY_PERCEPTION_OF_SWEET_TASTE
                                                                                                         GOBP_URETERIC_BUD_FORMATION, GOBP_URETERIC_BUD_FORMATION
                                                                                                         GOBP_REGULATION_OF_THYROID_HORMONE_GENERATION, GOBP_REGULATION_OF_THYROID_HORMONE_GENERATION
                                                                                                         STONER_ESOPHAGEAL_CARCINOGENESIS_DN, STONER_ESOPHAGEAL_CARCINOGENESIS_DN
                                                                                                          IKEDA MIR133 TARGETS DN, IKEDA MIR133 TARGETS DN
                                                                                                         HP_HYPERGASTRINEMIA, HP_HYPERGASTRINEMIA
                                                                                                         GOBP_NEGATIVE_REGULATION_OF_CELL_PROLIFERATION_INVOLVED_IN_KIDNEY_DEVELOPMENT, GOBP_NEGATIVE_REGULATION_OF_CELL_PROLIFERATION_INVOLVED_IN_KIDNEY_DEVELOPMENT
                                                                                                         GOBP_REGULATION_OF_RETROGRADE_TRANSPORT_ENDOSOME_TO_GOLGI, GOBP_REGULATION_OF_RETROGRADE_TRANSPORT_ENDOSOME_TO_GOLGI
                                                                                                         GOMF POLYSOME BINDING, GOMF POLYSOME BINDING
                                                                                                         REACTOME DEFECTIVE F9_ACTIVATION, REACTOME DEFECTIVE F9_ACTIVATION
                                                                                                         HP UTERINE PROLAPSE, HP UTERINE PROLAPSE
                                                                                                         BIOCARTA_PLATELETAPP_PATHWAY, BIOCARTA_PLATELETAPP_PATHWAY
                                                                                                         GOBP_NEPHRON_TUBULE_FORMATION, GOBP_NEPHRON_TUBULE_FORMATION
                                                                                                         HP_PROXIMAL_RENAL_TUBULAR_ACIDOSIS, HP_PROXIMAL_RENAL_TUBULAR_ACIDOSIS
                                                                                                         GOBP_REGULATION_OF_T_HELPER_2_CELL_CYTOKINE_PRODUCTION, GOBP_REGULATION_OF_T_HELPER_2_CELL_CYTOKINE_PRODUCTION
                                                                                                         REACTOME_FRS_MEDIATED_FGFR1_SIGNALING, REACTOME_FRS_MEDIATED_FGFR1_SIGNALING
                                                                                                         HP_SKIN_PICKING, HP_SKIN_PICKING
                                                                                                         GOBP_NEGATIVE_REGULATION_OF_SYNAPTIC_TRANSMISSION_GLUTAMATERGIC, GOBP_NEGATIVE_REGULATION_OF_SYNAPTIC_TRANSMISSION_GLUTAMATERGIC
                                                                                                         GOCC_BASEMENT_MEMBRANE_COLLAGEN_TRIMER, GOCC_BASEMENT_MEMBRANE_COLLAGEN_TRIMER
                                                                                                         HP_MODERATE_ALBUMINURIA, HP_MODERATE_ALBUMINURIA
                                                                                                         GOBP_POSITIVE_REGULATION_OF_EPITHELIAL_TUBE_FORMATION, GOBP_POSITIVE_REGULATION_OF_EPITHELIAL_TUBE_FORMATION
                                                                                                         HP_PARATHYROID_CARCINOMA, HP_PARATHYROID_CARCINOMA
                                                                                                         GOBP_POSITIVE_REGULATION_OF_T_HELPER_2_CELL_CYTOKINE_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_T_HELPER_2_CELL_CYTOKINE_PRODUCTION
                                                                                                         REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR2, REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR2
                                                                                                          GOBP_CARDIAC_RIGHT_VENTRICLE_MORPHOGENESIS, GOBP_CARDIAC_RIGHT_VENTRICLE_MORPHOGENESIS
                                                                                                         BIOCARTA AMI PATHWAY, BIOCARTA AMI PATHWAY
                                                                                                          REACTOME_ANCHORING_FIBRIL_FORMATION, REACTOME_ANCHORING_FIBRIL_FORMATION
                                                                                                          GOCC_COMPLEX_OF_COLLAGEN_TRIMERS, GOCC_COMPLEX_OF_COLLAGEN_TRIMERS
                                                                                                          HP MASTOIDITIS, HP MASTOIDITIS
                                                                                                          GOMF_INOSITOL_1_3_4_5_TETRAKISPHOSPHATE_BINDING, GOMF_INOSITOL_1_3_4_5_TETRAKISPHOSPHATE_BINDING
                                                                                                          HP PROMINENCE OF THE PREMAXILLA, HP PROMINENCE OF THE PREMAXILLA
                                                                                                          GOMF_FATTY_ACID_OMEGA_HYDROXYLASE_ACTIVITY, GOMF_FATTY_ACID_OMEGA_HYDROXYLASE_ACTIVITY
                                                                                                         HP_ABNORMALITY_OF_RENIN_ANGIOTENSIN_SYSTEM, HP_ABNORMALITY_OF_RENIN_ANGIOTENSIN_SYSTEM
                                                                                                         HP_DECREASED_CERVICAL_SPINE_MOBILITY, HP_DECREASED_CERVICAL_SPINE_MOBILITY
                                                                                                          KANG_AR_TARGETS_UP, KANG_AR_TARGETS_UP
                                                                                                          REACTOME_DEFECTIVE_FACTOR_IX_CAUSES_HEMOPHILIA_B, REACTOME_DEFECTIVE_FACTOR_IX_CAUSES_HEMOPHILIA_B
                                                                                                          GOBP_NOREPINEPHRINE_BIOSYNTHETIC_PROCESS, GOBP_NOREPINEPHRINE_BIOSYNTHETIC_PROCESS
                                                                                                         GOBP_URETER_MORPHOGENESIS, GOBP_URETER_MORPHOGENESIS
                                                                                                          BIOCARTA_ACE2_PATHWAY, BIOCARTA_ACE2_PATHWAY
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GOMF\_FIBROBLAST\_GROWTH\_FACTOR\_RECEPTOR\_BINDING, GOMF\_FIBROBLAST\_GROWTH\_FACTOR\_RECEPTOR\_BINDING

GOBP POSITIVE REGULATION OF INTERLEUKIN 5 PRODUCTION, GOBP POSITIVE REGULATION OF INTERLEUKIN 5 PRODUCTION

GSE27786\_LIN\_NEG\_VS\_MONO\_MAC\_UP, GSE27786\_LIN\_NEG\_VS\_MONO\_MAC\_UP

GSE42724\_B1\_BCELL\_VS\_PLASMABLAST\_DN, GSE42724\_B1\_BCELL\_VS\_PLASMABLAST\_DN

GSE18893\_CTRL\_VS\_TNF\_TREATED\_TCONV\_24H\_UP, GSE18893\_CTRL\_VS\_TNF\_TREATED\_TCONV\_24H\_UP