```
GSE17721_0.5H_VS_4H_PAM3CSK4_BMDC_UP, GSE17721_0.5H_VS_4H_PAM3CSK4_BMDC_UP
                                                                             GSE22935_UNSTIM_VS_12H_MBOVIS_BCG_STIM_MYD88_KO_MACROPHAGE_DN, GSE22935_UNSTIM_VS_12H_MBOVIS_BCG_STIM_MYD88_KO_MACROPHAGE_DN
                                                                             GSE17721_LPS_VS_CPG_12H_BMDC_UP, GSE17721_LPS_VS_CPG_12H_BMDC_UP
                                                                             GSE23398_WT_VS_IL2_KO_CD4_TCELL_SCURFY_MOUSE_UP, GSE23398_WT_VS_IL2_KO_CD4_TCELL_SCURFY_MOUSE_UP
                                                                             GOBP_PEPTIDYL_LYSINE_ACETYLATION, GOBP_PEPTIDYL_LYSINE_ACETYLATION
                                                                             GSE14415_FOXP3_KO_NATURAL_TREG_VS_TCONV_DN, GSE14415_FOXP3_KO_NATURAL_TREG_VS_TCONV_DN
                                                                             GSE7852_TREG_VS_TCONV_THYMUS_DN, GSE7852_TREG_VS_TCONV_THYMUS_DN
                                                                             GSE15330_LYMPHOID_MULTIPOTENT_VS_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_DN, GSE15330_LYMPHOID_MULTIPOTENT_VS_MEGAKARYOCYTE_ERYTHROID_PI
                                                                             GSE17721_PAM3CSK4_VS_CPG_1H_BMDC_UP, GSE17721_PAM3CSK4_VS_CPG_1H_BMDC_UP
                                                                             GSE18281_PERIMEDULLARY_CORTICAL_REGION_VS_WHOLE_MEDULLA_THYMUS_UP, GSE18281_PERIMEDULLARY_CORTICAL_REGION_VS_WHOLE_MEDULLA_THYMUS_UP
                                                                             GSE40274 FOXP3 VS FOXP3 AND XBP1 TRANSDUCED ACTIVATED CD4 TCELL DN, GSE40274 FOXP3 VS FOXP3 AND XBP1 TRANSDUCED ACTIVATED CD4 TCELL DN
                                                                             BYSTRYKH_HEMATOPOIESIS_STEM_CELL_AND_BRAIN_QTL_TRANS, BYSTRYKH_HEMATOPOIESIS_STEM_CELL_AND_BRAIN_QTL_TRANS
                                                                             GSE11961_MARGINAL_ZONE_BCELL_VS_PLASMA_CELL_DAY7_DN, GSE11961_MARGINAL_ZONE_BCELL_VS_PLASMA_CELL_DAY7_DN
                                                                             MORF_HEAB, MORF_HEAB
                                                                             MIR324_3P, MIR324_3P
                                                                             GOBP_HISTONE_H4_ACETYLATION, GOBP_HISTONE_H4_ACETYLATION
                                                                             MIR1255B 2 3P, MIR1255B 2 3P
                                                                             HP_HYPOPLASIA_OF_THE_BRAINSTEM, HP_HYPOPLASIA_OF_THE_BRAINSTEM
                                                                             HUTTMANN_B_CLL_POOR_SURVIVAL_DN, HUTTMANN_B_CLL_POOR_SURVIVAL_DN
                                                                             GOMF_REPRESSING_TRANSCRIPTION_FACTOR_BINDING, GOMF_REPRESSING_TRANSCRIPTION_FACTOR_BINDING
                                                                             MIR190B 5P, MIR190B 5P
                                                                             HP_APLASTIC_HYPOPLASTIC_TOENAIL, HP_APLASTIC_HYPOPLASTIC_TOENAIL
                                                                             MIR887_5P, MIR887_5P
                                                                             HP OPTIC NEUROPATHY, HP OPTIC NEUROPATHY
                                                                             GSE14350_TREG_VS_TEFF_DN, GSE14350_TREG_VS_TEFF_DN
                                                                             HP_ABNORMAL_OVARIAN_MORPHOLOGY, HP_ABNORMAL_OVARIAN_MORPHOLOGY
                                                                             HP_AGANGLIONIC_MEGACOLON, HP_AGANGLIONIC_MEGACOLON
                                                                             MIR190A_5P, MIR190A_5P
                                                                             MIR3187_3P, MIR3187_3P
                                                                             GSE17721_LPS_VS_PAM3CSK4_2H_BMDC_DN, GSE17721_LPS_VS_PAM3CSK4_2H_BMDC_DN
                                                                             HP_CONGENITAL_HEPATIC_FIBROSIS, HP_CONGENITAL_HEPATIC_FIBROSIS
                                                                             GSE28237_EARLY_VS_LATE_GC_BCELL_UP, GSE28237_EARLY_VS_LATE_GC_BCELL_UP
                                                                             MIR15B_3P, MIR15B_3P
                                                                             GOBP_REGULATION_OF_MITOCHONDRIAL_GENE_EXPRESSION, GOBP_REGULATION_OF_MITOCHONDRIAL_GENE_EXPRESSION
                                                                             HP_ANIRIDIA, HP_ANIRIDIA
                                                                             MIR320E, MIR320E
                                                                             HP_2_3_TOE_SYNDACTYLY, HP_2_3_TOE_SYNDACTYLY
                                                                             HP_MENINGOCELE, HP_MENINGOCELE
                                                                             HP_APLASIA_CUTIS_CONGENITA, HP_APLASIA_CUTIS_CONGENITA
                                                                             HP_ECTRODACTYLY, HP_ECTRODACTYLY
                                                                             WP_NOTCH_SIGNALING, WP_NOTCH_SIGNALING
                                                                             HP_METATARSUS_ADDUCTUS, HP_METATARSUS_ADDUCTUS
                                                                             QUEREC MODEL PBMC_YF_17D_VACCINE_AGE_18_45_7DY_PREDICTIVE, QUEREC_MODEL_PBMC_YF_17D_VACCINE_AGE_18_45_7DY_PREDICTIVE
                                                                             GSE13522 CTRL VS T CRUZI Y STRAIN INF SKIN BALBC MOUSE DN, GSE13522 CTRL VS T CRUZI Y STRAIN INF SKIN BALBC MOUSE DN
                                                                             MIR3923, MIR3923
                                                                             HP_MEDIAL_FLARING_OF_THE_EYEBROW, HP_MEDIAL_FLARING_OF_THE_EYEBROW
                                                                             GOBP_BROWN_FAT_CELL_DIFFERENTIATION, GOBP_BROWN_FAT_CELL_DIFFERENTIATION
                                                                             THRAP3_TARGET_GENES, THRAP3_TARGET_GENES
                                                                             HP_ABNORMALITY_OF_THE_PONS, HP_ABNORMALITY_OF_THE_PONS
                                                                             HP_GENERALIZED_JOINT_LAXITY, HP_GENERALIZED_JOINT_LAXITY
                                                                             GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN_DN, GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN_DN
7_POS_VS_NEG_NK_CELL_UP, GSE23695_CD57_POS_VS_NEG_NK_CELL_UP
                                                                             HP_APLASIA_HYPOPLASIA_OF_THE_OVARY, HP_APLASIA_HYPOPLASIA_OF_THE_OVARY
                                                                             GOBP_POSITIVE_REGULATION_OF_ACUTE_INFLAMMATORY_RESPONSE, GOBP_POSITIVE_REGULATION_OF_ACUTE_INFLAMMATORY_RESPONSE
                                                                             BIOCARTA_ETS_PATHWAY, BIOCARTA_ETS_PATHWAY
                                                                             HP_ABSENT_HAND, HP_ABSENT_HAND
                                                                             GOMF_PROTEIN_KINASE_A_REGULATORY_SUBUNIT_BINDING, GOMF_PROTEIN_KINASE_A_REGULATORY_SUBUNIT_BINDING
                                                                             HP_PROTRUDING_TONGUE, HP_PROTRUDING_TONGUE
                                                                             HP_CALVARIAL_SKULL_DEFECT, HP_CALVARIAL_SKULL_DEFECT
                                                                             HP_PULMONARY_ARTERY_ATRESIA, HP_PULMONARY_ARTERY_ATRESIA
                                                                             WINNEPENNINCKX_MELANOMA_METASTASIS_DN, WINNEPENNINCKX_MELANOMA_METASTASIS_DN
                                                                             XU_HGF_SIGNALING_NOT_VIA_AKT1_6HR, XU_HGF_SIGNALING_NOT_VIA_AKT1_6HR
                                                                             PID_INTEGRIN_A9B1_PATHWAY, PID_INTEGRIN_A9B1_PATHWAY
                                                                             GOBP_NEUTROPHIL_EXTRAVASATION, GOBP_NEUTROPHIL_EXTRAVASATION
                                                                             GOBP_AORTA_DEVELOPMENT, GOBP_AORTA_DEVELOPMENT
                                                                             GOMF_CATALYTIC_ACTIVITY_ACTING_ON_A_GLYCOPROTEIN, GOMF_CATALYTIC_ACTIVITY_ACTING_ON_A_GLYCOPROTEIN
                                                                             HP_ABNORMAL_LIBIDO, HP_ABNORMAL_LIBIDO
                                                                             HP_ABNORMAL_HAND_BONE_OSSIFICATION, HP_ABNORMAL_HAND_BONE_OSSIFICATION
                                                                             HP_DYSPAREUNIA, HP_DYSPAREUNIA
                                                                             GOBP_HISTONE_H4_K20_METHYLATION, GOBP_HISTONE_H4_K20_METHYLATION
                                                                             HP_11_PAIRS_OF_RIBS, HP_11_PAIRS_OF_RIBS
                                                                             TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_MONOCYTE_UP, TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_MONOCYTE_UP
                                                                             GOBP_NUCLEOSIDE_TRANSPORT, GOBP_NUCLEOSIDE_TRANSPORT
                                                                             HP_HYPOTHALAMIC_GONADOTROPIN_RELEASING_HORMONE_DEFICIENCY, HP_HYPOTHALAMIC_GONADOTROPIN_RELEASING_HORMONE_DEFICIENCY
                                                                             GOBP_GLYCOSPHINGOLIPID_BIOSYNTHETIC_PROCESS, GOBP_GLYCOSPHINGOLIPID_BIOSYNTHETIC_PROCESS
                                                                             GOBP_POSITIVE_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION, GOBP_POSITIVE_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION
                                                                             GOBP_SUBSTRATE_DEPENDENT_CELL_MIGRATION, GOBP_SUBSTRATE_DEPENDENT_CELL_MIGRATION
                                                                             HP_ABNORMALITY_OF_CARPAL_BONE_OSSIFICATION, HP_ABNORMALITY_OF_CARPAL_BONE_OSSIFICATION
                                                                             GOBP_REGULATION_OF_STRIATED_MUSCLE_CELL_DIFFERENTIATION, GOBP_REGULATION_OF_STRIATED_MUSCLE_CELL_DIFFERENTIATION
                                                                             HP_MICROSCOPIC_HEMATURIA, HP_MICROSCOPIC_HEMATURIA
                                                                             HP_JOINT_SUBLUXATION, HP_JOINT_SUBLUXATION
                                                                             MATZUK_IMPLANTATION_AND_UTERINE, MATZUK_IMPLANTATION_AND_UTERINE
                                                                             REACTOME_SEMA3A_PLEXIN_REPULSION_SIGNALING_BY_INHIBITING_INTEGRIN_ADHESION, REACTOME_SEMA3A_PLEXIN_REPULSION_SIGNALING_BY_INHIBITING_IN
                                                                             GOBP_SIALYLATION, GOBP_SIALYLATION
                                                                             HOEK_MYELOID_DENDRITIC_CELL_2011_2012_TIV_ADULT_7DY_DN, HOEK_MYELOID_DENDRITIC_CELL_2011_2012_TIV_ADULT_7DY_DN
                                                                             GAO LARGE INTESTINE ADULT CF_GOBLET_CELL_SUBTYPE_1, GAO LARGE INTESTINE ADULT CF_GOBLET_CELL_SUBTYPE_1
                                                                             MIR6787_5P, MIR6787_5P
                                                                             HP_BREAST_HYPOPLASIA, HP_BREAST_HYPOPLASIA
                                                                             BROWNE_HCMV_INFECTION_30MIN_UP, BROWNE_HCMV_INFECTION_30MIN_UP
                                                                             MODULE_465, MODULE_465
                                                                             HP_APLASIA_CUTIS_CONGENITA_OF_SCALP, HP_APLASIA_CUTIS_CONGENITA_OF_SCALP
                                                                             MIR6767_3P, MIR6767_3P
                                                                             GOBP_REGULATION_OF_SOMITOGENESIS, GOBP_REGULATION_OF_SOMITOGENESIS
                                                                             GOMF_DOUBLE_STRANDED_METHYLATED_DNA_BINDING, GOMF_DOUBLE_STRANDED_METHYLATED_DNA_BINDING
                                                                             GOMF_ESTROGEN_16_ALPHA_HYDROXYLASE_ACTIVITY, GOMF_ESTROGEN_16_ALPHA_HYDROXYLASE_ACTIVITY
                                                                             HP POSTERIOR PITUITARY DYSGENESIS, HP POSTERIOR PITUITARY DYSGENESIS
                                                                             REACTOME_POU5F1_OCT4_SOX2_NANOG_REPRESS_GENES_RELATED_TO_DIFFERENTIATION, REACTOME_POU5F1_OCT4_SOX2_NANOG_REPRESS_GENES_RELATED_TO_D
                                                                             GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN, GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
                                                                             WP_SOMITOGENESIS_IN_THE_CONTEXT_OF_SPONDYLOCOSTAL_DYSOSTOSIS, WP_SOMITOGENESIS_IN_THE_CONTEXT_OF_SPONDYLOCOSTAL_DYSOSTOSIS
                                                                             GOBP_OMEGA_HYDROXYLASE_P450_PATHWAY, GOBP_OMEGA_HYDROXYLASE_P450_PATHWAY
                                                                             REACTOME_SYNTHESIS_OF_16_20_HYDROXYEICOSATETRAENOIC_ACIDS_HETE, REACTOME_SYNTHESIS_OF_16_20_HYDROXYEICOSATETRAENOIC_ACIDS_HETE
                                                                             GOBP_REGULATION_OF_ODONTOGENESIS_OF_DENTIN_CONTAINING_TOOTH, GOBP_REGULATION_OF_ODONTOGENESIS_OF_DENTIN_CONTAINING_TOOTH
                                                                             GOMF POTASSIUM CHLORIDE SYMPORTER ACTIVITY, GOMF POTASSIUM CHLORIDE SYMPORTER ACTIVITY
                                                                             GOBP_NUCLEOSIDE_TRANSMEMBRANE_TRANSPORT, GOBP_NUCLEOSIDE_TRANSMEMBRANE_TRANSPORT
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HP_EUNUCHOID_HABITUS, HP_EUNUCHOID_HABITUS

HP_SPARSE_BODY_HAIR, HP_SPARSE_BODY_HAIR

GSE22103_UNSTIM_VS_GMCSF_AND_IFNG_STIM_NEUTROPHIL_UP, GSE22103_UNSTIM_VS_GMCSF_AND_IFNG_STIM_NEUTROPHIL_UP

GSE40274_XBP1_VS_FOXP3_AND_XBP1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN, GSE40274_XBP1_VS_FOXP3_AND_XBP1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN

GSE22103_UNSTIM_VS_LPS_STIM_NEUTROPHIL_UP, GSE22103_UNSTIM_VS_LPS_STIM_NEUTROPHIL_UP

GSE22589_HEALTHY_VS_SIV_INFECTED_DC_UP, GSE22589_HEALTHY_VS_SIV_INFECTED_DC_UP