```
GSE7852_LN_VS_FAT_TREG_UP, GSE7852_LN_VS_FAT_TREG_UP
GSE32255_WT_UNSTIM_VS_JMJD2D_KNOCKDOWN_4H_LPS_STIM_DC_UP, GSE32255_WT_UNSTIM_VS_JMJD2D_KNOCKDOWN_4H_LPS_STIM_DC_UP
GSE7852_THYMUS_VS_FAT_TCONV_UP, GSE7852_THYMUS_VS_FAT_TCONV_UP
GSE23321 CENTRAL VS EFFECTOR MEMORY CD8 TCELL DN, GSE23321 CENTRAL VS EFFECTOR MEMORY CD8 TCELL DN
GOLDRATH_NAIVE_VS_EFF_CD8_TCELL_UP, GOLDRATH_NAIVE_VS_EFF_CD8_TCELL_UP
GSE7852_LN_VS_FAT_TCONV_UP, GSE7852_LN_VS_FAT_TCONV_UP
GSE36078 WT VS IL1R KO LUNG DC AFTER AD5 INF DN, GSE36078 WT VS IL1R KO LUNG DC AFTER AD5 INF DN
GSE21670_TGFB_VS_TGFB_AND_IL6_TREATED_STAT3_KO_CD4_TCELL_UP, GSE21670_TGFB_VS_TGFB_AND_IL6_TREATED_STAT3_KO_CD4_TCELL_UP
KRIEG_KDM3A_TARGETS_NOT_HYPOXIA, KRIEG_KDM3A_TARGETS_NOT_HYPOXIA
GSE37301_MULTIPOTENT_PROGENITOR_VS_COMMON_LYMPHOID_PROGENITOR_UP, GSE37301_MULTIPOTENT_PROGENITOR_VS_COMMON_LYMPHOID_PROGENITOR_UP
GSE7852_TREG_VS_TCONV_FAT_DN, GSE7852_TREG_VS_TCONV_FAT_DN
GSE40274 FOXP3_VS_FOXP3_AND_PBX1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN, GSE40274_FOXP3_VS_FOXP3_AND_PBX1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN
GSE7852_LN_VS_THYMUS_TREG_DN, GSE7852_LN_VS_THYMUS_TREG_DN
GSE5455_HEALTHY_VS_TUMOR_BEARING_MOUSE_SPLEEN_MONOCYTE_24H_INCUBATION_UP, GSE5455_HEALTHY_VS_TUMOR_BEARING_MOUSE_SPLEEN_MONOCYTE_24H_INCUBATION_UP
GSE22886_NAIVE_TCELL_VS_MONOCYTE_UP, GSE22886_NAIVE_TCELL_VS_MONOCYTE_UP
GSE14699_NAIVE_VS_ACT_CD8_TCELL_DN, GSE14699_NAIVE_VS_ACT_CD8_TCELL_DN
GSE37301_CD4_TCELL_VS_GRANULOCYTE_MONOCYTE_PROGENITOR_DN, GSE37301_CD4_TCELL_VS_GRANULOCYTE_MONOCYTE_PROGENITOR_DN
GSE37301_PRO_BCELL_VS_CD4_TCELL_UP, GSE37301_PRO_BCELL_VS_CD4_TCELL_UP
GSE9650_NAIVE_VS_MEMORY_CD8_TCELL_UP, GSE9650_NAIVE_VS_MEMORY_CD8_TCELL_UP
GSE40666_NAIVE_VS_EFFECTOR_CD8_TCELL_UP, GSE40666_NAIVE_VS_EFFECTOR_CD8_TCELL_UP
GSE25088_CTRL_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP, GSE25088_CTRL_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP
GSE22611_UNSTIM_VS_6H_MDP_STIM_NOD2_TRANSDUCED_HEK293T_CELL_DN, GSE22611_UNSTIM_VS_6H_MDP_STIM_NOD2_TRANSDUCED_HEK293T_CELL_DN
MEK_UP.V1_DN, MEK_UP.V1_DN
GSE7460_TCONV_VS_TREG_THYMUS_DN, GSE7460_TCONV_VS_TREG_THYMUS_DN
GSE10325_LUPUS_CD4_TCELL_VS_LUPUS_MYELOID_UP, GSE10325_LUPUS_CD4_TCELL_VS_LUPUS_MYELOID_UP
MIR4778_5P, MIR4778_5P
MORF_CCNF, MORF_CCNF
GOCC_P_BODY, GOCC_P_BODY
GSE9601_UNTREATED_VS_PI3K_INHIBITOR_TREATED_HCMV_INF_MONOCYTE_DN, GSE9601_UNTREATED_VS_PI3K_INHIBITOR_TREATED_HCMV_INF_MONOCYTE_DN
GSE15330_HSC_VS_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_DN, GSE15330_HSC_VS_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_DN
GSE14699_NAIVE_VS_DELETIONAL_TOLERANCE_CD8_TCELL_UP, GSE14699_NAIVE_VS_DELETIONAL_TOLERANCE_CD8_TCELL_UP
GSE45739_UNSTIM_VS_ACD3_ACD28_STIM_WT_CD4_TCELL_UP, GSE45739_UNSTIM_VS_ACD3_ACD28_STIM_WT_CD4_TCELL_UP
GSE14415_FOXP3_KO_NATURAL_TREG_VS_TCONV_DN, GSE14415_FOXP3_KO_NATURAL_TREG_VS_TCONV_DN
GOCC_RNA_POLYMERASE_II_HOLOENZYME, GOCC_RNA_POLYMERASE_II_HOLOENZYME
GSE13547_CTRL_VS_ANTI_IGM_STIM_ZFX_KO_BCELL_12H_DN, GSE13547_CTRL_VS_ANTI_IGM_STIM_ZFX_KO_BCELL_12H_DN
GSE20366_CD103_KLRG1_DP_VS_DN_TREG_UP, GSE20366_CD103_KLRG1_DP_VS_DN_TREG_UP
GSE15330_HSC_VS_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_UP, GSE15330_HSC_VS_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_UP
GSE2935_UV_INACTIVATED_VS_LIVE_SENDAI_VIRUS_INF_MACROPHAGE_UP, GSE2935_UV_INACTIVATED_VS_LIVE_SENDAI_VIRUS_INF_MACROPHAGE_UP
MIR1304_5P, MIR1304_5P
GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_3H_UP, GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_3H_UP
ZSCAN23_TARGET_GENES, ZSCAN23_TARGET_GENES
WP_ENDODERM_DIFFERENTIATION, WP_ENDODERM_DIFFERENTIATION
GSE32901_NAIVE_VS_TH17_ENRICHED_CD4_TCELL_UP, GSE32901_NAIVE_VS_TH17_ENRICHED_CD4_TCELL_UP
MIR3927_3P, MIR3927_3P
MIR874 3P, MIR874 3P
TBK1.DN.48HRS_DN, TBK1.DN.48HRS_DN
GSE15330_LYMPHOID_MULTIPOTENT_VS_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_IKAROS_KO_UP, GSE15330_LYMPHOID_MULTIPOTENT_VS_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_IKAROS_KO_UP
GSE13306 LAMINA PROPRIA VS SPLEEN TREG DN, GSE13306 LAMINA PROPRIA VS SPLEEN TREG DN
LI_INDUCED_T_TO_NATURAL_KILLER_DN, LI_INDUCED_T_TO_NATURAL_KILLER_DN
HP_LIPODYSTROPHY, HP_LIPODYSTROPHY
GOBP_RNA_CAPPING, GOBP_RNA_CAPPING
REACTOME_HIV_TRANSCRIPTION_INITIATION, REACTOME_HIV_TRANSCRIPTION_INITIATION
MIR4637, MIR4637
REACTOME_FORMATION_OF_THE_EARLY_ELONGATION_COMPLEX, REACTOME_FORMATION_OF_THE_EARLY_ELONGATION_COMPLEX
GSE39820_IL1B_IL6_VS_IL1B_IL6_IL23A_TREATED_CD4_TCELL_UP, GSE39820_IL1B_IL6_VS_IL1B_IL6_IL23A_TREATED_CD4_TCELL_UP
MIR4725_5P, MIR4725_5P
GSE12198 CTRL VS HIGH IL2 STIM NK CELL UP, GSE12198 CTRL VS HIGH IL2 STIM NK CELL UP
REACTOME_MRNA_CAPPING, REACTOME_MRNA_CAPPING
MIR504_5P, MIR504_5P
DESCARTES_FETAL_STOMACH_LYMPHOID_CELLS, DESCARTES_FETAL_STOMACH_LYMPHOID_CELLS
NAKAYA_PBMC_FLUAD_MALE_AGE_14_27YO_1D_POSTBOOST_VS_0D_PREIMM_MF59_ADJUVANTED_1DY_ATIV_UP, NAKAYA_PBMC_FLUAD_MALE_AGE_14_27YO_1D_POSTBOOST_VS_0D_PREIMM_MF59_ADJUVANTED_1DY_ATIV_UP
YRTCANNRCGC_UNKNOWN, YRTCANNRCGC_UNKNOWN
MIR2116_3P, MIR2116_3P
MIR10524_5P, MIR10524_5P
GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN, GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN
MIR668_3P, MIR668_3P
HP_XEROSTOMIA, HP_XEROSTOMIA
GSE37301_PRO_BCELL_VS_CD4_TCELL_DN, GSE37301_PRO_BCELL_VS_CD4_TCELL_DN
PID_EPO_PATHWAY, PID_EPO_PATHWAY
REACTOME_MICRORNA_MIRNA_BIOGENESIS, REACTOME_MICRORNA_MIRNA_BIOGENESIS
WP_IL3_SIGNALING_PATHWAY, WP_IL3_SIGNALING_PATHWAY
TENEDINI_MEGAKARYOCYTE_MARKERS, TENEDINI_MEGAKARYOCYTE_MARKERS
KEGG_RNA_POLYMERASE, KEGG_RNA_POLYMERASE
HP_PULMONARY_INFILTRATES, HP_PULMONARY_INFILTRATES
DESCARTES_MAIN_FETAL_THYMOCYTES, DESCARTES_MAIN_FETAL_THYMOCYTES
BOSCO_TH1_CYTOTOXIC_MODULE, BOSCO_TH1_CYTOTOXIC_MODULE
BILBAN_B_CLL_LPL_UP, BILBAN_B_CLL_LPL_UP
GOBP_TRANSCRIPTION_ELONGATION_FROM_RNA_POLYMERASE_I_PROMOTER, GOBP_TRANSCRIPTION_ELONGATION_FROM_RNA_POLYMERASE_I_PROMOTER
GOBP_T_CELL_DIFFERENTIATION_IN_THYMUS, GOBP_T_CELL_DIFFERENTIATION_IN_THYMUS
MEIS1AHOXA9_01, MEIS1AHOXA9_01
GOBP_THYMUS_DEVELOPMENT, GOBP_THYMUS_DEVELOPMENT
MIR3139, MIR3139
REACTOME_SIGNALING_BY_FGFR_IN_DISEASE, REACTOME_SIGNALING_BY_FGFR_IN_DISEASE
HP_ABNORMALITY_OF_THE_MUSCULATURE_OF_THE_LOWER_LIMBS, HP_ABNORMALITY_OF_THE_MUSCULATURE_OF_THE_LOWER_LIMBS
GOBP_TERMINATION_OF_RNA_POLYMERASE_I_TRANSCRIPTION, GOBP_TERMINATION_OF_RNA_POLYMERASE_I_TRANSCRIPTION
REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION_TERMINATION, REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION_TERMINATION
HP_LIPOATROPHY, HP_LIPOATROPHY
HP ABNORMAL UPPER MOTOR NEURON MORPHOLOGY, HP ABNORMAL UPPER MOTOR NEURON MORPHOLOGY
GSE2128_C57BL6_VS_NOD_THYMOCYTE_MIMETOPE_NEGATIVE_SELECTION_UP, GSE2128_C57BL6_VS_NOD_THYMOCYTE_MIMETOPE_NEGATIVE_SELECTION_UP
ZHENG FOXP3 TARGETS IN T LYMPHOCYTE DN, ZHENG FOXP3 TARGETS IN T LYMPHOCYTE DN
REACTOME PIWI INTERACTING RNA PIRNA BIOGENESIS, REACTOME PIWI INTERACTING RNA PIRNA BIOGENESIS
GOMF_HYDROLASE_ACTIVITY_ACTING_ON_CARBON_NITROGEN_BUT_NOT_PEPTIDE_BONDS_IN_LINEAR_AMIDES, GOMF_HYDROLASE_ACTIVITY_ACTING_ON_CARBON_NITROGEN_BUT_NOT_PEPTIDE_BONDS_IN_LINEAR_AMIDES
HP_ABNORMALITY_OF_THE_CALF_MUSCULATURE, HP_ABNORMALITY_OF_THE_CALF_MUSCULATURE
SABATES COLORECTAL ADENOMA SIZE UP, SABATES COLORECTAL ADENOMA SIZE UP
VISALA_AGING_LYMPHOCYTE_DN, VISALA_AGING_LYMPHOCYTE_DN
MIR708 5P, MIR708 5P
BECKER_TAMOXIFEN_RESISTANCE_DN, BECKER_TAMOXIFEN_RESISTANCE_DN
MIR28_5P, MIR28_5P
REACTOME_FLT3_SIGNALING_IN_DISEASE, REACTOME_FLT3_SIGNALING_IN_DISEASE
BIOCARTA_BAD_PATHWAY, BIOCARTA_BAD_PATHWAY
GSE29618_LAIV_VS_TIV_FLU_VACCINE_DAY7_BCELL_UP, GSE29618_LAIV_VS_TIV_FLU_VACCINE_DAY7_BCELL_UP
HP_DEGENERATION_OF_THE_LATERAL_CORTICOSPINAL_TRACTS, HP_DEGENERATION_OF_THE_LATERAL_CORTICOSPINAL_TRACTS
HU_GENOTOXIN_ACTION_DIRECT_VS_INDIRECT_4HR, HU_GENOTOXIN_ACTION_DIRECT_VS_INDIRECT_4HR
HP_AGYRIA, HP_AGYRIA
REACTOME REPRESSION OF WNT TARGET GENES, REACTOME REPRESSION OF WNT TARGET GENES
GOMF_PHOSPHATIDYLINOSITOL_3_KINASE_BINDING, GOMF_PHOSPHATIDYLINOSITOL_3_KINASE_BINDING
GOBP_HISTONE_H2A_ACETYLATION, GOBP_HISTONE_H2A_ACETYLATION
GOBP_POSITIVE_REGULATION_OF_GAMMA_DELTA_T_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_GAMMA_DELTA_T_CELL_ACTIVATION
REACTOME SIALIC ACID METABOLISM, REACTOME SIALIC ACID METABOLISM
REACTOME_GAMMA_CARBOXYLATION_HYPUSINE_FORMATION_AND_ARYLSULFATASE_ACTIVATION, REACTOME_GAMMA_CARBOXYLATION_HYPUSINE_FORMATION_AND_ARYLSULFATASE_ACTIVATION
GOBP_HISTONE_H3_DEACETYLATION, GOBP_HISTONE_H3_DEACETYLATION
GOBP_REGULATION_OF_GAMMA_DELTA_T_CELL_ACTIVATION, GOBP_REGULATION_OF_GAMMA_DELTA_T_CELL_ACTIVATION
REACTOME_SYNTHESIS_OF_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI, REACTOME_SYNTHESIS_OF_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI
 MODULE_275, MODULE_275
GOBP_REGULATION_OF_MEMBRANE_DEPOLARIZATION, GOBP_REGULATION_OF_MEMBRANE_DEPOLARIZATION
GOCC_OLIGOSACCHARYLTRANSFERASE_COMPLEX, GOCC_OLIGOSACCHARYLTRANSFERASE_COMPLEX
GOCC_RNA_POLYMERASE_II_CORE_COMPLEX, GOCC_RNA_POLYMERASE_II_CORE_COMPLEX
GOBP_PREASSEMBLY_OF_GPI_ANCHOR_IN_ER_MEMBRANE, GOBP_PREASSEMBLY_OF_GPI_ANCHOR_IN_ER_MEMBRANE
REACTOME_REGULATION_OF_RUNX1_EXPRESSION_AND_ACTIVITY, REACTOME_REGULATION_OF_RUNX1_EXPRESSION_AND_ACTIVITY
GOCC_RNA_POLYMERASE_III_COMPLEX, GOCC_RNA_POLYMERASE_III_COMPLEX
REACTOME_RNA_POLYMERASE_III_CHAIN_ELONGATION, REACTOME_RNA_POLYMERASE_III_CHAIN_ELONGATION
GOBP_REGULATION_OF_ATP_BIOSYNTHETIC_PROCESS, GOBP_REGULATION_OF_ATP_BIOSYNTHETIC_PROCESS
HP_CHRONIC_LEUKEMIA, HP_CHRONIC_LEUKEMIA
GOBP_LIPID_DROPLET_ORGANIZATION, GOBP_LIPID_DROPLET_ORGANIZATION
HP_FACIAL_DIPLEGIA, HP_FACIAL_DIPLEGIA
GOCC_BETA_CATENIN_TCF_COMPLEX, GOCC_BETA_CATENIN_TCF_COMPLEX
GOBP_NUCLEOSIDE_SALVAGE, GOBP_NUCLEOSIDE_SALVAGE
 MIR6744_5P, MIR6744_5P
GSE13522_CTRL_VS_T_CRUZI_Y_STRAIN_INF_SKIN_BALBC_MOUSE_DN, GSE13522_CTRL_VS_T_CRUZI_Y_STRAIN_INF_SKIN_BALBC_MOUSE_DN
BIOCARTA_IL7_PATHWAY, BIOCARTA_IL7_PATHWAY
GOBP_N_ACETYLNEURAMINATE_METABOLIC_PROCESS, GOBP_N_ACETYLNEURAMINATE_METABOLIC_PROCESS
HP_DEEP_PLANTAR_CREASES, HP_DEEP_PLANTAR_CREASES
GOBP_GAMMA_DELTA_T_CELL_ACTIVATION, GOBP_GAMMA_DELTA_T_CELL_ACTIVATION
GOCC_SWR1_COMPLEX, GOCC_SWR1_COMPLEX
 REACTOME_ABC_TRANSPORTERS_IN_LIPID_HOMEOSTASIS, REACTOME_ABC_TRANSPORTERS_IN_LIPID_HOMEOSTASIS
GOMF_NUCLEOSIDE_KINASE_ACTIVITY, GOMF_NUCLEOSIDE_KINASE_ACTIVITY
GOBP_REGULATION_OF_PIGMENT_CELL_DIFFERENTIATION, GOBP_REGULATION_OF_PIGMENT_CELL_DIFFERENTIATION
 PID_FGF_PATHWAY, PID_FGF_PATHWAY
GOBP_NEGATIVE_REGULATION_OF_LIPID_STORAGE, GOBP_NEGATIVE_REGULATION_OF_LIPID_STORAGE
 GREENBAUM_E2A_TARGETS_DN, GREENBAUM_E2A_TARGETS_DN
 MODULE_412, MODULE_412
HP_EXCESSIVE_WRINKLING_OF_PALMAR_SKIN, HP_EXCESSIVE_WRINKLING_OF_PALMAR_SKIN
GOBP_V_D_J_RECOMBINATION, GOBP_V_D_J_RECOMBINATION
HP_ABNORMAL_MITOCHONDRIAL_NUMBER, HP_ABNORMAL_MITOCHONDRIAL_NUMBER
 MIR210_5P, MIR210_5P
GOBP_POSITIVE_REGULATION_OF_DNA_METHYLATION_DEPENDENT_HETEROCHROMATIN_ASSEMBLY, GOBP_POSITIVE_REGULATION_OF_DNA_METHYLATION_DEPENDENT_HETEROCHROMATIN_ASSEMBLY
 SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_DN, SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_DN
MIR576_3P, MIR576_3P
GOBP_ALDITOL_BIOSYNTHETIC_PROCESS, GOBP_ALDITOL_BIOSYNTHETIC_PROCESS
GOBP_NEGATIVE_REGULATION_OF_INTERLEUKIN_13_PRODUCTION, GOBP_NEGATIVE_REGULATION_OF_INTERLEUKIN_13_PRODUCTION
GOBP_RIBONUCLEOPROTEIN_COMPLEX_DISASSEMBLY, GOBP_RIBONUCLEOPROTEIN_COMPLEX_DISASSEMBLY
GOBP_DENDRITIC_CELL_MIGRATION, GOBP_DENDRITIC_CELL_MIGRATION
GOBP_DENDRITIC_CELL_CHEMOTAXIS, GOBP_DENDRITIC_CELL_CHEMOTAXIS
GOMF_PROTEIN_GLUTAMIC_ACID_LIGASE_ACTIVITY, GOMF_PROTEIN_GLUTAMIC_ACID_LIGASE_ACTIVITY
GOBP_NEGATIVE_REGULATION_OF_CHOLESTEROL_STORAGE, GOBP_NEGATIVE_REGULATION_OF_CHOLESTEROL_STORAGE
HP_ABNORMAL_SERUM_INSULIN_LIKE_GROWTH_FACTOR_1_LEVEL, HP_ABNORMAL_SERUM_INSULIN_LIKE_GROWTH_FACTOR_1_LEVEL
 REACTOME_MATURATION_OF_PROTEIN_3A, REACTOME_MATURATION_OF_PROTEIN_3A
 GOBP DICHOTOMOUS SUBDIVISION OF AN EPITHELIAL TERMINAL UNIT, GOBP DICHOTOMOUS SUBDIVISION OF AN EPITHELIAL TERMINAL UNIT
GOBP_REGULATION_OF_CELLULAR_PH_REDUCTION, GOBP_REGULATION_OF_CELLULAR_PH_REDUCTION
HP_ABNORMAL_ERYTHROCYTE_PHYSIOLOGY, HP_ABNORMAL_ERYTHROCYTE_PHYSIOLOGY
GOMF_BETA_2_MICROGLOBULIN_BINDING, GOMF_BETA_2_MICROGLOBULIN_BINDING
GOBP_REGULATION_OF_PROTEIN_LOCALIZATION_TO_CILIUM, GOBP_REGULATION_OF_PROTEIN_LOCALIZATION_TO_CILIUM
GOMF_ACID_AMINO_ACID_LIGASE_ACTIVITY, GOMF_ACID_AMINO_ACID_LIGASE_ACTIVITY
chr3q29, chr3q29
GOMF_MOLYBDOPTERIN_COFACTOR_BINDING, GOMF_MOLYBDOPTERIN_COFACTOR_BINDING
GOBP_NATURAL_KILLER_CELL_PROLIFERATION, GOBP_NATURAL_KILLER_CELL_PROLIFERATION
 MIR7704, MIR7704
HP_PALMOPLANTAR_CUTIS_LAXA, HP_PALMOPLANTAR_CUTIS_LAXA
 FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_INFLUENZA\_VACCINE\_CORRELATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_INFLUENZA\_VACCINE\_CORRELATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_INFLUENZA\_VACCINE\_CORRELATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_INFLUENZA\_VACCINE\_CORRELATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_INFLUENZA\_VACCINE\_CORRELATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_INFLUENZA\_VACCINE\_CORRELATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_0DY\_NEGATIVE, FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_WITH\_ANTIBODY\_NEGATIVE, FRANCO\_DUTTATURED\_TO THE ANTIBODY\_TO TH
GOBP_REGULATION_OF_DNA_METHYLATION_DEPENDENT_HETEROCHROMATIN_ASSEMBLY, GOBP_REGULATION_OF_DNA_METHYLATION_DEPENDENT_HETEROCHROMATIN_ASSEMBLY
GOBP_SNRNA_TRANSCRIPTION_BY_RNA_POLYMERASE_III, GOBP_SNRNA_TRANSCRIPTION_BY_RNA_POLYMERASE_III
GOBP_PHOSPHOLIPID_EFFLUX, GOBP_PHOSPHOLIPID_EFFLUX
PASTURAL_RIZ1_TARGETS_UP, PASTURAL_RIZ1_TARGETS_UP
HP ABNORMAL TRANSFERRIN SATURATION, HP ABNORMAL TRANSFERRIN SATURATION
GOBP MUCOSA ASSOCIATED LYMPHOID TISSUE DEVELOPMENT, GOBP MUCOSA ASSOCIATED LYMPHOID TISSUE DEVELOPMENT
HP_POSTERIOR_FOSSA_CYST, HP_POSTERIOR_FOSSA_CYST
HP_FRAGILE_NAILS, HP_FRAGILE_NAILS
GOBP_SIALYLATION, GOBP_SIALYLATION
chr12q15, chr12q15
PID_IL4_2PATHWAY, PID_IL4_2PATHWAY
HP_CHOLANGITIS, HP_CHOLANGITIS
GOBP_CARDIAC_MUSCLE_CELL_MYOBLAST_DIFFERENTIATION, GOBP_CARDIAC_MUSCLE_CELL_MYOBLAST_DIFFERENTIATION
GOBP_PEPTIDYL_TYROSINE_AUTOPHOSPHORYLATION, GOBP_PEPTIDYL_TYROSINE_AUTOPHOSPHORYLATION
WP_MOLYBDENUM_COFACTOR_MOCO_BIOSYNTHESIS, WP_MOLYBDENUM_COFACTOR_MOCO_BIOSYNTHESIS
REACTOME_JOSEPHIN_DOMAIN_DUBS, REACTOME_JOSEPHIN_DOMAIN_DUBS
GOBP_REGULATION_OF_MELANOCYTE_DIFFERENTIATION, GOBP_REGULATION_OF_MELANOCYTE_DIFFERENTIATION
HP_MENINGOENCEPHALOCELE, HP_MENINGOENCEPHALOCELE
GOBP_POSITIVE_REGULATION_OF_PROTEIN_LOCALIZATION_TO_CILIUM, GOBP_POSITIVE_REGULATION_OF_PROTEIN_LOCALIZATION_TO_CILIUM
GOBP_REGULATION_OF_T_CELL_COSTIMULATION, GOBP_REGULATION_OF_T_CELL_COSTIMULATION
GOBP_NEGATIVE_REGULATION_OF_MACROPHAGE_DERIVED_FOAM_CELL_DIFFERENTIATION, GOBP_NEGATIVE_REGULATION_OF_MACROPHAGE_DERIVED_FOAM_CELL_DIFFERENTIATION
GOBP MITOCHONDRIAL DEPOLARIZATION, GOBP MITOCHONDRIAL DEPOLARIZATION
REACTOME_INTERLEUKIN_21_SIGNALING, REACTOME_INTERLEUKIN_21_SIGNALING
HP_ELEVATED_ALKALINE_PHOSPHATASE_OF_BONE_ORIGIN, HP_ELEVATED_ALKALINE_PHOSPHATASE_OF_BONE_ORIGIN
GOMF_PHOSPHATIDYLINOSITOL_3_KINASE_REGULATORY_SUBUNIT_BINDING, GOMF_PHOSPHATIDYLINOSITOL_3_KINASE_REGULATORY_SUBUNIT_BINDING
chr6q22, chr6q22
KAUFFMANN_MELANOMA_RELAPSE_DN, KAUFFMANN_MELANOMA_RELAPSE_DN
REACTOME SULFIDE OXIDATION TO SULFATE, REACTOME SULFIDE OXIDATION TO SULFATE
GOBP_STRESS_GRANULE_DISASSEMBLY, GOBP_STRESS_GRANULE_DISASSEMBLY
GOBP_PLATELET_DERIVED_GROWTH_FACTOR_RECEPTOR_ALPHA_SIGNALING_PATHWAY, GOBP_PLATELET_DERIVED_GROWTH_FACTOR_RECEPTOR_ALPHA_SIGNALING_PATHWAY
MYLLYKANGAS AMPLIFICATION HOT SPOT 18, MYLLYKANGAS AMPLIFICATION HOT SPOT 18
LOPEZ_MESOTHELIOMA_SURVIVAL_OVERALL_UP, LOPEZ_MESOTHELIOMA_SURVIVAL_OVERALL_UP
GOBP_POSITIVE_REGULATION_OF_GRANULOCYTE_DIFFERENTIATION, GOBP_POSITIVE_REGULATION_OF_GRANULOCYTE_DIFFERENTIATION
HP INTERSTITIAL PNEUMONITIS, HP INTERSTITIAL PNEUMONITIS
REACTOME INTERLEUKIN 9 SIGNALING, REACTOME INTERLEUKIN 9 SIGNALING
HP_DACRYOCYSTITIS, HP_DACRYOCYSTITIS
HP PREMATURE RUPTURE OF MEMBRANES, HP PREMATURE RUPTURE OF MEMBRANES
GOBP_POSITIVE_REGULATION_OF_HISTONE_H3_K9_METHYLATION, GOBP_POSITIVE_REGULATION_OF_HISTONE_H3_K9_METHYLATION
REACTOME PTK6 REGULATES RTKS AND THEIR EFFECTORS AKT1 AND DOK1, REACTOME PTK6 REGULATES RTKS AND THEIR EFFECTORS AKT1 AND DOK1
NADELLA PRKAR1A TARGETS DN, NADELLA PRKAR1A TARGETS DN
GOBP_ANTIGEN_PROCESSING_AND_PRESENTATION_OF_LIPID_ANTIGEN_VIA_MHC_CLASS_IB, GOBP_ANTIGEN_PROCESSING_AND_PRESENTATION_OF_LIPID_ANTIGEN_VIA_MHC_CLASS_IB
chr3q27, chr3q27
GOBP_NEGATIVE_REGULATION_OF_RUFFLE_ASSEMBLY, GOBP_NEGATIVE_REGULATION_OF_RUFFLE_ASSEMBLY
REACTOME MITOCHONDRIAL UNCOUPLING, REACTOME MITOCHONDRIAL UNCOUPLING
HP_INCREASED_SKULL_OSSIFICATION, HP_INCREASED_SKULL_OSSIFICATION
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MUS_VS_FAT_TREG_UP, GSE7852_THYMUS_VS_FAT_TREG_UP

HP_HYPOPLASIA_OF_THE_IRIS, HP_HYPOPLASIA_OF_THE_IRIS GOMF_SIALYLTRANSFERASE_ACTIVITY, GOMF_SIALYLTRANSFERASE_ACTIVITY HP_SHORT_SPERM_FLAGELLA, HP_SHORT_SPERM_FLAGELLA LOPEZ_MESOTHELIOMA_SURVIVAL_WORST_VS_BEST_DN, LOPEZ_MESOTHELIOMA_SURVIVAL_WORST_VS_BEST_DN REACTOME_FLT3_SIGNALING_BY_CBL_MUTANTS, REACTOME_FLT3_SIGNALING_BY_CBL_MUTANTS GOBP_NEGATIVE_REGULATION_OF_CARDIAC_MUSCLE_CELL_PROLIFERATION, GOBP_NEGATIVE_REGULATION_OF_CARDIAC_MUSCLE_CELL_PROLIFERATION GOBP_NEGATIVE_REGULATION_OF_INTERLEUKIN_5_PRODUCTION, GOBP_NEGATIVE_REGULATION_OF_INTERLEUKIN_5_PRODUCTION SHIPP_DLBCL_VS_FOLLICULAR_LYMPHOMA_DN, SHIPP_DLBCL_VS_FOLLICULAR_LYMPHOMA_DN GOBP RESPONSE TO INTERLEUKIN 9, GOBP RESPONSE TO INTERLEUKIN 9 GOBP_HYPERSENSITIVITY, GOBP_HYPERSENSITIVITY GOMF ALCOHOL DEHYDROGENASE NAD P PLUS ACTIVITY, GOMF ALCOHOL DEHYDROGENASE NAD P PLUS ACTIVITY REACTOME_N_GLYCAN_ANTENNAE_ELONGATION_IN_THE_MEDIAL_TRANS_GOLGI, REACTOME_N_GLYCAN_ANTENNAE_ELONGATION_IN_THE_MEDIAL_TRANS_GOLGI HP_RIEGER_ANOMALY, HP_RIEGER_ANOMALY GOBP_STEROID_ESTERIFICATION, GOBP_STEROID_ESTERIFICATION GOBP_REGULATION_OF_CHOLESTEROL_ESTERIFICATION, GOBP_REGULATION_OF_CHOLESTEROL_ESTERIFICATION ANDERSON_BLOOD_CN54GP140_ADJUVANTED_WITH_GLA_AF_AGE_18_45YO_LOW_IGM_RESPONDERS_6HY_1DY_UP, ANDERSON_BLOOD_CN54GP140_ADJUVANTED_WITH_GLA_AF_AGE_18_45YO_LOW_IGM_RESPONDERS_6HY_1DY_UP GOBP_FATTY_ACID_OMEGA_OXIDATION, GOBP_FATTY_ACID_OMEGA_OXIDATION REACTOME_THE_FATTY_ACID_CYCLING_MODEL, REACTOME_THE_FATTY_ACID_CYCLING_MODEL MIR551A_MIR551B_3P, MIR551A_MIR551B_3P HP_LACRIMAL_DUCT_ATRESIA, HP_LACRIMAL_DUCT_ATRESIA GOBP_POSITIVE_REGULATION_OF_HYPERSENSITIVITY, GOBP_POSITIVE_REGULATION_OF_HYPERSENSITIVITY

GOBP_SULFIDE_OXIDATION, GOBP_SULFIDE_OXIDATION GOBP_ANTIGEN_PROCESSING_AND_PRESENTATION_ENDOGENOUS_LIPID_ANTIGEN_VIA_MHC_CLASS_IB, GOBP_ANTIGEN_PROCESSING_AND_PRESENTATION_ENDOGENOUS_LIPID_ANTIGEN_VIA_MHC_CLASS_IB GOCC_TRANSCRIPTION_FACTOR_TFIIA_COMPLEX, GOCC_TRANSCRIPTION_FACTOR_TFIIA_COMPLEX GOMF_ESTROGEN_RECEPTOR_ACTIVITY, GOMF_ESTROGEN_RECEPTOR_ACTIVITY GOMF_LIPID_ANTIGEN_BINDING, GOMF_LIPID_ANTIGEN_BINDING GOMF_INSULIN_BINDING, GOMF_INSULIN_BINDING GOMF_PHOSPHATIDYLCHOLINE_FLOPPASE_ACTIVITY, GOMF_PHOSPHATIDYLCHOLINE_FLOPPASE_ACTIVITY

GOBP_REGULATION_OF_HYPERSENSITIVITY, GOBP_REGULATION_OF_HYPERSENSITIVITY GOBP_FLAVIN_CONTAINING_COMPOUND_METABOLIC_PROCESS, GOBP_FLAVIN_CONTAINING_COMPOUND_METABOLIC_PROCESS HP_TRICHORRHEXIS_NODOSA, HP_TRICHORRHEXIS_NODOSA GOBP_NEGATIVE_REGULATION_OF_OSTEOBLAST_PROLIFERATION, GOBP_NEGATIVE_REGULATION_OF_OSTEOBLAST_PROLIFERATION REACTOME_HDL_REMODELING, REACTOME_HDL_REMODELING HP_IMMOTILE_SPERM, HP_IMMOTILE_SPERM WP_AMPLIFICATION_AND_EXPANSION_OF_ONCOGENIC_PATHWAYS_AS_METASTATIC_TRAITS, WP_AMPLIFICATION_AND_EXPANSION_OF_ONCOGENIC_PATHWAYS_AS_METASTATIC_TRAITS REACTOME_ACTIVATION_OF_THE_TFAP2_AP_2_FAMILY_OF_TRANSCRIPTION_FACTORS, REACTOME_ACTIVATION_OF_THE_TFAP2_AP_2_FAMILY_OF_TRANSCRIPTION_FACTORS

GOBP_ETHANOL_OXIDATION, GOBP_ETHANOL_OXIDATION GOMF_NADP_RETINOL_DEHYDROGENASE_ACTIVITY, GOMF_NADP_RETINOL_DEHYDROGENASE_ACTIVITY REACTOME_ETHANOL_OXIDATION, REACTOME_ETHANOL_OXIDATION GOBP_CHORIO_ALLANTOIC_FUSION, GOBP_CHORIO_ALLANTOIC_FUSION HP_NARROW_FORAMEN_OBTURATORIUM, HP_NARROW_FORAMEN_OBTURATORIUM GOBP_LACRIMAL_GLAND_DEVELOPMENT, GOBP_LACRIMAL_GLAND_DEVELOPMENT GOBP_3_PHOSPHOADENOSINE_5_PHOSPHOSULFATE_BIOSYNTHETIC_PROCESS, GOBP_3_PHOSPHOADENOSINE_5_PHOSPHOSULFATE_BIOSYNTHETIC_PROCESS GOBP_AGGRESOME_ASSEMBLY, GOBP_AGGRESOME_ASSEMBLY GOMF_ALPHA_N_ACETYLNEURAMINATE_ALPHA_2_8_SIALYLTRANSFERASE_ACTIVITY, GOMF_ALPHA_N_ACETYLNEURAMINATE_ALPHA_2_8_SIALYLTRANSFERASE_ACTIVITY REACTOME_TRANSPORT_AND_SYNTHESIS_OF_PAPS, REACTOME_TRANSPORT_AND_SYNTHESIS_OF_PAPS

GOMF_OLFACTORY_RECEPTOR_BINDING, GOMF_OLFACTORY_RECEPTOR_BINDING GOMF_FLOPPASE_ACTIVITY, GOMF_FLOPPASE_ACTIVITY REACTOME_SIGNALING_BY_TYPE_1_INSULIN_LIKE_GROWTH_FACTOR_1_RECEPTOR_IGF1R, REACTOME_SIGNALING_BY_TYPE_1_INSULIN_LIKE_GROWTH_FACTOR_1_RECEPTOR_IGF1R GOBP_NEGATIVE_REGULATION_OF_CARDIOCYTE_DIFFERENTIATION, GOBP_NEGATIVE_REGULATION_OF_CARDIOCYTE_DIFFERENTIATION VANLOO_SP3_TARGETS_UP, VANLOO_SP3_TARGETS_UP GOBP_HINDBRAIN_RADIAL_GLIA_GUIDED_CELL_MIGRATION, GOBP_HINDBRAIN_RADIAL_GLIA_GUIDED_CELL_MIGRATION

GOBP_PARAXIAL_MESODERM_FORMATION, GOBP_PARAXIAL_MESODERM_FORMATION GOBP_NEGATIVE_REGULATION_OF_DENDRITIC_CELL_APOPTOTIC_PROCESS, GOBP_NEGATIVE_REGULATION_OF_DENDRITIC_CELL_APOPTOTIC_PROCESS GOBP_POSITIVE_REGULATION_OF_DENDRITIC_CELL_ANTIGEN_PROCESSING_AND_PRESENTATION, GOBP_POSITIVE_REGULATION_OF_DENDRITIC_CELL_ANTIGEN_PROCESSING_AND_PRESENTATION GOBP_ALKANESULFONATE_METABOLIC_PROCESS, GOBP_ALKANESULFONATE_METABOLIC_PROCESS WP_MICRORNA_NETWORK_ASSOCIATED_WITH_CHRONIC_LYMPHOCYTIC_LEUKEMIA, WP_MICRORNA_NETWORK_ASSOCIATED_WITH_CHRONIC_LYMPHOCYTIC_LEUKEMIA

GOBP_NEGATIVE_REGULATION_OF_MEMBRANE_DEPOLARIZATION, GOBP_NEGATIVE_REGULATION_OF_MEMBRANE_DEPOLARIZATION GOCC_FLOTILLIN_COMPLEX, GOCC_FLOTILLIN_COMPLEX

chr1p21, chr1p21 chr6q27, chr6q27 GOBP_POSITIVE_REGULATION_OF_SKELETAL_MUSCLE_TISSUE_DEVELOPMENT, GOBP_POSITIVE_REGULATION_OF_SKELETAL_MUSCLE_TISSUE_DEVELOPMENT

GOBP_VERY_LONG_CHAIN_FATTY_ACID_CATABOLIC_PROCESS, GOBP_VERY_LONG_CHAIN_FATTY_ACID_CATABOLIC_PROCESS

GOMF_ALCOHOL_DEHYDROGENASE_ACTIVITY_ZINC_DEPENDENT, GOMF_ALCOHOL_DEHYDROGENASE_ACTIVITY_ZINC_DEPENDENT GOMF_MANNOSE_BINDING, GOMF_MANNOSE_BINDING GOBP_NEGATIVE_T_CELL_SELECTION, GOBP_NEGATIVE_T_CELL_SELECTION chr4p12, chr4p12 GOBP_REGULATION_OF_SKELETAL_MUSCLE_FIBER_DEVELOPMENT, GOBP_REGULATION_OF_SKELETAL_MUSCLE_FIBER_DEVELOPMENT MIR598_5P, MIR598_5P GOBP_APOPTOTIC_PROCESS_IN_BONE_MARROW_CELL, GOBP_APOPTOTIC_PROCESS_IN_BONE_MARROW_CELL SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX3, SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX3 GOCC_TRANSCRIPTION_EXPORT_COMPLEX_2, GOCC_TRANSCRIPTION_EXPORT_COMPLEX_2 GOBP_POSITIVE_REGULATION_OF_CHOLESTEROL_BIOSYNTHETIC_PROCESS, GOBP_POSITIVE_REGULATION_OF_CHOLESTEROL_BIOSYNTHETIC_PROCESS GOBP_POSITIVE_REGULATION_OF_SKELETAL_MUSCLE_FIBER_DEVELOPMENT, GOBP_POSITIVE_REGULATION_OF_SKELETAL_MUSCLE_FIBER_DEVELOPMENT GOMF_TOXIN_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_TOXIN_TRANSMEMBRANE_TRANSPORTER_ACTIVITY GOBP_REGULATION_OF_FLAGELLATED_SPERM_MOTILITY, GOBP_REGULATION_OF_FLAGELLATED_SPERM_MOTILITY WEINBERGER_BLOOD_TWINRIX_AGE_20_40_AND_60_84YO_CORRELATED_WITH_HIGH_ANTI_HBS_CONC_AT_WEEK_4_POST_BOOSTER_VACC_1DY_POSITIVE, WEINBERGER_BLOOD_TWINRIX_AGE_20_40_AND_60_84YO_CORRELATED_WITH_HIGH_ANTI_HBS_CONC_AT_WEEK_4_POST_BOO GOBP FOREBRAIN RADIAL GLIAL CELL DIFFERENTIATION, GOBP FOREBRAIN RADIAL GLIAL CELL DIFFERENTIATION chr5q14, chr5q14 GOBP_POSITIVE_REGULATION_OF_ANTIGEN_PROCESSING_AND_PRESENTATION, GOBP_POSITIVE_REGULATION_OF_ANTIGEN_PROCESSING_AND_PRESENTATION MIKKELSEN_MCV6_ICP_WITH_H3K4ME3_AND_H3K27ME3, MIKKELSEN_MCV6_ICP_WITH_H3K4ME3_AND_H3K27ME3