```
GSE30971_CTRL_VS_LPS_STIM_MACROPHAGE_WBP7_HET_4H_DN, GSE30971_CTRL_VS_LPS_STIM_MACROPHAGE_WBP7_HET_4H_DN
                                                                                               GSE24026_PD1_LIGATION_VS_CTRL_IN_ACT_TCELL_LINE_DN, GSE24026_PD1_LIGATION_VS_CTRL_IN_ACT_TCELL_LINE_DN
                                                                                               GSE9960_HEALTHY_VS_GRAM_NEG_SEPSIS_PBMC_UP, GSE9960_HEALTHY_VS_GRAM_NEG_SEPSIS_PBMC_UP
                                                                                               GSE13484_12H_UNSTIM_VS_YF17D_VACCINE_STIM_PBMC_UP, GSE13484_12H_UNSTIM_VS_YF17D_VACCINE_STIM_PBMC_UP
                                                                                                GSE360 CTRL VS M_TUBERCULOSIS_DC_UP, GSE360 CTRL VS_M_TUBERCULOSIS_DC_UP
                                                                                                GCM_UBE2N, GCM_UBE2N
                                                                                               GSE13484_UNSTIM_VS_12H_YF17D_VACCINE_STIM_PBMC_UP, GSE13484_UNSTIM_VS_12H_YF17D_VACCINE_STIM_PBMC_UP
                                                                                               GSE30971 CTRL VS LPS STIM MACROPHAGE WBP7 HET 2H DN, GSE30971 CTRL VS LPS STIM MACROPHAGE WBP7 HET 2H DN
                                                                                               GSE16755_CTRL_VS_IFNA_TREATED_MAC_UP, GSE16755_CTRL_VS_IFNA_TREATED_MAC_UP
                                                                                               GSE7548_NAIVE_VS_DAY7_PCC_IMMUNIZATION_CD4_TCELL_UP, GSE7548_NAIVE_VS_DAY7_PCC_IMMUNIZATION_CD4_TCELL_UP
                                                                                               GSE10325_BCELL_VS_MYELOID_DN, GSE10325_BCELL_VS_MYELOID_DN
                                                                                               GSE13484_3H_UNSTIM_VS_YF17D_VACCINE_STIM_PBMC_UP, GSE13484_3H_UNSTIM_VS_YF17D_VACCINE_STIM_PBMC_UP
                                                                                               GSE36476_CTRL_VS_TSST_ACT_40H_MEMORY_CD4_TCELL_YOUNG_UP, GSE36476_CTRL_VS_TSST_ACT_40H_MEMORY_CD4_TCELL_YOUNG_UP
                                                                                               GSE360_LOW_DOSE_B_MALAYI_VS_M_TUBERCULOSIS_DC_UP, GSE360_LOW_DOSE_B_MALAYI_VS_M_TUBERCULOSIS_DC_UP
                                                                                               GSE2706_UNSTIM_VS_8H_LPS_DC_UP, GSE2706_UNSTIM_VS_8H_LPS_DC_UP
                                                                                               GSE14000_4H_VS_16H_LPS_DC_UP, GSE14000_4H_VS_16H_LPS_DC_UP
                                                                                               GSE15930_STIM_VS_STIM_AND_IL12_72H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_IL12_72H_CD8_T_CELL_UP
                                                                                               GSE37533_PPARG2_FOXP3_VS_FOXP3_TRANSDUCED_CD4_TCELL_UP, GSE37533_PPARG2_FOXP3_VS_FOXP3_TRANSDUCED_CD4_TCELL_UP
                                                                                               GSE42021_TREG_VS_TCONV_PLN_DN, GSE42021_TREG_VS_TCONV_PLN_DN
                                                                                               GSE1432 1H VS 6H IFNG MICROGLIA UP, GSE1432 1H VS 6H IFNG MICROGLIA UP
                                                                                               GSE42021 CD24HI VS CD24INT TREG THYMUS UP, GSE42021 CD24HI VS CD24INT TREG THYMUS UP
                                                                                               GSE10325 CD4 TCELL_VS_MYELOID_UP, GSE10325 CD4_TCELL_VS_MYELOID_UP
                                                                                               GCM_ZNF198, GCM_ZNF198
                                                                                               GSE15930_STIM_VS_STIM_AND_IFNAB_24H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_IFNAB_24H_CD8_T_CELL_UP
                                                                                               GSE18281_SUBCAPSULAR_VS_PERIMEDULLARY_CORTICAL_REGION_OF_THYMUS_UP, GSE18281_SUBCAPSULAR_VS_PERIMEDULLARY_CORTICAL_REGION_OF_THYMUS_UP
                                                                                               GSE36476_CTRL_VS_TSST_ACT_16H_MEMORY_CD4_TCELL_OLD_UP, GSE36476_CTRL_VS_TSST_ACT_16H_MEMORY_CD4_TCELL_OLD_UP
                                                                                               GSE29618_PRE_VS_DAY7_FLU_VACCINE_MDC_DN, GSE29618_PRE_VS_DAY7_FLU_VACCINE_MDC_DN
                                                                                               GSE19401_PLN_VS_PEYERS_PATCH_FOLLICULAR_DC_UP, GSE19401_PLN_VS_PEYERS_PATCH_FOLLICULAR_DC_UP
                                                                                               GSE27859_CD11C_INT_F480_HI_MACROPHAGE_VS_CD11C_ING_F480_INT_DC_DN, GSE27859_CD11C_INT_F480_HI_MACROPHAGE_VS_CD11C_ING_F480_INT_DC_DN
                                                                                               GSE360_T_GONDII_VS_B_MALAYI_HIGH_DOSE_DC_DN, GSE360_T_GONDII_VS_B_MALAYI_HIGH_DOSE_DC_DN
                                                                                               GSE3982_MAST_CELL_VS_TH2_UP, GSE3982_MAST_CELL_VS_TH2_UP
                                                                                               GSE37301_MULTIPOTENT_PROGENITOR_VS_RAG2_KO_NK_CELL_UP, GSE37301_MULTIPOTENT_PROGENITOR_VS_RAG2_KO_NK_CELL_UP
                                                                                               GSE3982_CTRL_VS_LPS_1H_NEUTROPHIL_UP, GSE3982_CTRL_VS_LPS_1H_NEUTROPHIL_UP
                                                                                               GSE360_L_DONOVANI_VS_M_TUBERCULOSIS_DC_UP, GSE360_L_DONOVANI_VS_M_TUBERCULOSIS_DC_UP
                                                                                               GCM_SUFU, GCM_SUFU
                                                                                               MIR513B_3P, MIR513B_3P
                                                                                               GSE42021_TREG_PLN_VS_CD24LO_TREG_THYMUS_UP, GSE42021_TREG_PLN_VS_CD24LO_TREG_THYMUS_UP
                                                                                               GSE360_CTRL_VS_T_GONDII_DC_UP, GSE360_CTRL_VS_T_GONDII_DC_UP
                                                                                               GSE41867_DAY15_EFFECTOR_VS_DAY30_MEMORY_CD8_TCELL_LCMV_ARMSTRONG_DN, GSE41867_DAY15_EFFECTOR_VS_DAY30_MEMORY_CD8_TCELL_LCMV_ARMSTRONG_DN
                                                                                               MORF REV3L, MORF REV3L
                                                                                               GNF2_CD53, GNF2_CD53
                                                                                               ZSCAN5C_TARGET_GENES, ZSCAN5C_TARGET_GENES
                                                                                               GSE27786_BCELL_VS_CD8_TCELL_DN, GSE27786_BCELL_VS_CD8_TCELL_DN
                                                                                               MIR5087, MIR5087
                                                                                               PATEL_SKIN_OF_BODY_ZOSTAVAX_AGE_70_93YO_VZV_CHALLENGE_3DY_UP, PATEL_SKIN_OF_BODY_ZOSTAVAX_AGE_70_93YO_VZV_CHALLENGE_3DY_UP
                                                                                               GSE1448_CTRL_VS_ANTI_VALPHA2_DP_THYMOCYTE_DN, GSE1448_CTRL_VS_ANTI_VALPHA2_DP_THYMOCYTE_DN
                                                                                               MIR3692_5P, MIR3692_5P
                                                                                               MIR665, MIR665
                                                                                               JI_RESPONSE_TO_FSH_DN, JI_RESPONSE_TO_FSH_DN
                                                                                               GOBP_STEROID_HORMONE_MEDIATED_SIGNALING_PATHWAY, GOBP_STEROID_HORMONE_MEDIATED_SIGNALING_PATHWAY
                                                                                               GSE15930_STIM_VS_STIM_AND_IFNAB_72H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_IFNAB_72H_CD8_T_CELL_UP
                                                                                               MODULE_277, MODULE_277
                                                                                               MIR6757_3P, MIR6757_3P
                                                                                               MIR5583_5P, MIR5583_5P
                                                                                               CHOI_ATL_STAGE_PREDICTOR, CHOI_ATL_STAGE_PREDICTOR
                                                                                               GSE42021_CD24INT_VS_CD24LOW_TREG_THYMUS_UP, GSE42021_CD24INT_VS_CD24LOW_TREG_THYMUS_UP
                                                                                               MODULE_243, MODULE_243
                                                                                               MIR3129_3P, MIR3129_3P
                                                                                               GNF2_TYK2, GNF2_TYK2
                                                                                               MIR935, MIR935
                                                                                               HP_ABNORMAL_LARYNX_MORPHOLOGY, HP_ABNORMAL_LARYNX_MORPHOLOGY
                                                                                               BUSSLINGER_GASTRIC_X_CELLS, BUSSLINGER_GASTRIC_X_CELLS
                                                                                               MIR1224_3P, MIR1224_3P
                                                                                               ROSS_AML_WITH_CBFB_MYH11_FUSION, ROSS_AML_WITH_CBFB_MYH11_FUSION
                                                                                               CTCCAAG_MIR432, CTCCAAG_MIR432
                                                                                               HP_CONFUSION, HP_CONFUSION
                                                                                               GOBP_MAINTENANCE_OF_PROTEIN_LOCATION_IN_CELL, GOBP_MAINTENANCE_OF_PROTEIN_LOCATION_IN_CELL
                                                                                               GSE15930_STIM_VS_STIM_AND_TRICHOSTATINA_24H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_TRICHOSTATINA_24H_CD8_T_CELL_UP
                                                                                               HP_BRISK_REFLEXES, HP_BRISK_REFLEXES
                                                                                               MIR7843_5P, MIR7843_5P
                                                                                               PARK_HSC_MARKERS, PARK_HSC_MARKERS
                                                                                               GSE16450 IMMATURE VS MATURE NEURON CELL LINE 6H IFNA STIM UP, GSE16450 IMMATURE VS MATURE NEURON CELL LINE 6H IFNA STIM UP
                                                                                               GCM CSNK1D, GCM CSNK1D
                                                                                               HP_BONE_MARROW_HYPOCELLULARITY, HP_BONE_MARROW_HYPOCELLULARITY
                                                                                              GOBP_HISTONE_H3_ACETYLATION, GOBP_HISTONE_H3_ACETYLATION
                                                                                               WP_WNT_SIGNALING_PATHWAY_AND_PLURIPOTENCY, WP_WNT_SIGNALING_PATHWAY_AND_PLURIPOTENCY
                                                                                               GOCC_DNA_REPAIR_COMPLEX, GOCC_DNA_REPAIR_COMPLEX
                                                                                               GOMF_MIRNA_BINDING, GOMF_MIRNA_BINDING
                                                                                               GCM_RAP2A, GCM_RAP2A
                                                                                               BOYAULT LIVER CANCER SUBCLASS G12 UP, BOYAULT LIVER CANCER SUBCLASS G12 UP
                                                                                               GOMF_PEPTIDE_N_ACETYLTRANSFERASE_ACTIVITY, GOMF_PEPTIDE_N_ACETYLTRANSFERASE_ACTIVITY
                                                                                               HP_KERATITIS, HP_KERATITIS
                                                                                               GOMF_PEPTIDE_LYSINE_N_ACETYLTRANSFERASE_ACTIVITY, GOMF_PEPTIDE_LYSINE_N_ACETYLTRANSFERASE_ACTIVITY
                                                                                               GOBP_PEPTIDYL_TYROSINE_DEPHOSPHORYLATION, GOBP_PEPTIDYL_TYROSINE_DEPHOSPHORYLATION
                                                                                               HP_MUCOSAL_TELANGIECTASIAE, HP_MUCOSAL_TELANGIECTASIAE
                                                                                               MIR3116, MIR3116
                                                                                               MIR431_5P, MIR431_5P
                                                                                               BCAT_BILD_ET_AL_DN, BCAT_BILD_ET_AL_DN
                                                                                               GOBP_PEPTIDYL_CYSTEINE_MODIFICATION, GOBP_PEPTIDYL_CYSTEINE_MODIFICATION
                                                                                               HP_PREMATURE_OVARIAN_INSUFFICIENCY, HP_PREMATURE_OVARIAN_INSUFFICIENCY
                                                                                               HP_CRANIAL_HYPEROSTOSIS, HP_CRANIAL_HYPEROSTOSIS
                                                                                               MIR654_5P, MIR654_5P
                                                                                               HP_BLEPHARITIS, HP_BLEPHARITIS
                                                                                               GNF2_RAD23A, GNF2_RAD23A
                                                                                               MIR541_3P, MIR541_3P
                                                                                               MIR6881_5P, MIR6881_5P
                                                                                               AIZARANI LIVER C12 NK NKT CELLS 4, AIZARANI LIVER C12 NK NKT CELLS 4
                                                                                               ASTON_MAJOR_DEPRESSIVE_DISORDER_UP, ASTON_MAJOR_DEPRESSIVE_DISORDER_UP
                                                                                               HP_FRECKLING, HP_FRECKLING
                                                                                               MIR937_5P, MIR937_5P
                                                                                                MIR8055, MIR8055
                                                                                               MODULE_281, MODULE_281
                                                                                               GCM_FANCL, GCM_FANCL
                                                                                               GSE3691_CONVENTIONAL_VS_PLASMACYTOID_DC_SPLEEN_DN, GSE3691_CONVENTIONAL_VS_PLASMACYTOID_DC_SPLEEN_DN
                                                                                               GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_2_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_2_PRODUCTION
                                                                                               GNF2_SPTA1, GNF2_SPTA1
                                                                                               MIR4717_3P, MIR4717_3P
                                                                                               GOBP_ACTIVATION_OF_MAPKK_ACTIVITY, GOBP_ACTIVATION_OF_MAPKK_ACTIVITY
                                                                                                SIG_REGULATION_OF_THE_ACTIN_CYTOSKELETON_BY_RHO_GTPASES, SIG_REGULATION_OF_THE_ACTIN_CYTOSKELETON_BY_RHO_GTPASES
                                                                                                MIR6866_5P, MIR6866_5P
                                                                                               WP_RAC1PAK1P38MMP2_PATHWAY, WP_RAC1PAK1P38MMP2_PATHWAY
                                                                                                MIR676_3P, MIR676_3P
                                                                                               GOBP_NEGATIVE_REGULATION_OF_CHROMATIN_ORGANIZATION, GOBP_NEGATIVE_REGULATION_OF_CHROMATIN_ORGANIZATION
                                                                                               HP_MIXED_HEARING_IMPAIRMENT, HP_MIXED_HEARING_IMPAIRMENT
                                                                                               GOCC_DNA_REPLICATION_FACTOR_A_COMPLEX, GOCC_DNA_REPLICATION_FACTOR_A_COMPLEX
                                                                                               GOBP_HISTONE_H4_K16_ACETYLATION, GOBP_HISTONE_H4_K16_ACETYLATION
                                                                                               PID_INSULIN_PATHWAY, PID_INSULIN_PATHWAY
                                                                                               PID_P38_MKK3_6PATHWAY, PID_P38_MKK3_6PATHWAY
                                                                                               HP_POIKILODERMA, HP_POIKILODERMA
                                                                                               MODULE_284, MODULE_284
                                                                                                HP_ABNORMAL_PLATELET_VOLUME, HP_ABNORMAL_PLATELET_VOLUME
                                                                                                HP_ENTROPION, HP_ENTROPION
                                                                                                MIR3614_3P, MIR3614_3P
                                                                                                GOMF_PROTEIN_DISULFIDE_OXIDOREDUCTASE_ACTIVITY, GOMF_PROTEIN_DISULFIDE_OXIDOREDUCTASE_ACTIVITY
                                                                                                MIR450B_3P, MIR450B_3P
                                                                                                GGTAACC_MIR4095P, GGTAACC_MIR4095P
                                                                                                GENTILE_UV_RESPONSE_CLUSTER_D8, GENTILE_UV_RESPONSE_CLUSTER_D8
                                                                                                BIOCARTA_WNT_PATHWAY, BIOCARTA_WNT_PATHWAY
                                                                                               GOMF_PHOSPHATIDIC_ACID_BINDING, GOMF_PHOSPHATIDIC_ACID_BINDING
                                                                                               REACTOME_PEPTIDE_HORMONE_METABOLISM, REACTOME_PEPTIDE_HORMONE_METABOLISM
S_YF17D_VACCINE_STIM_PBMC_UP, GSE13484_UNSTIM_VS_YF17D_VACCINE_STIM_PBMC_UP
                                                                                               HP_PTERYGIUM, HP_PTERYGIUM
                                                                                               GNF2_ATM, GNF2_ATM
                                                                                                MODULE_300, MODULE_300
                                                                                                GOBP_HISTONE_H3_K9_METHYLATION, GOBP_HISTONE_H3_K9_METHYLATION
                                                                                               GOMF_METALLOAMINOPEPTIDASE_ACTIVITY, GOMF_METALLOAMINOPEPTIDASE_ACTIVITY
                                                                                                MIR769 5P, MIR769 5P
                                                                                                HP_ABNORMAL_MEGAKARYOCYTE_MORPHOLOGY, HP_ABNORMAL_MEGAKARYOCYTE_MORPHOLOGY
                                                                                                GTACAGG_MIR486, GTACAGG_MIR486
                                                                                                GOBP_REGULATION_OF_LAMELLIPODIUM_ORGANIZATION, GOBP_REGULATION_OF_LAMELLIPODIUM_ORGANIZATION
                                                                                               WP_TRANSCRIPTION_FACTOR_REGULATION_IN_ADIPOGENESIS, WP_TRANSCRIPTION_FACTOR_REGULATION_IN_ADIPOGENESIS
                                                                                                MCCLUNG_DELTA_FOSB_TARGETS_8WK, MCCLUNG_DELTA_FOSB_TARGETS_8WK
                                                                                               GOBP_RETINOIC_ACID_RECEPTOR_SIGNALING_PATHWAY, GOBP_RETINOIC_ACID_RECEPTOR_SIGNALING_PATHWAY
                                                                                               QI_PBMC_ZOSTAVAX_AGE_50_75YO_CORRELATED_WITH_T_CELL_RESPONSES_EXPANSION_AND_CONTRACTION_1D_NOT_INFORMATIVE_OF_
                                                                                                HP_LONG_NOSE, HP_LONG_NOSE
                                                                                               MODULE_166, MODULE_166
                                                                                               MIR769_3P, MIR769_3P
                                                                                               GOCC_NUCLEOTIDE_EXCISION_REPAIR_COMPLEX, GOCC_NUCLEOTIDE_EXCISION_REPAIR_COMPLEX
                                                                                               BIOCARTA_ETC_PATHWAY, BIOCARTA_ETC_PATHWAY
                                                                                               GOBP_POSITIVE_REGULATION_OF_PATTERN_RECOGNITION_RECEPTOR_SIGNALING_PATHWAY, GOBP_POSITIVE_REGULATION_OF_PATTERN_RECOGNITION_RECEPTOR_SIGNALING_PATHWAY
                                                                                               PID_P38_ALPHA_BETA_PATHWAY, PID_P38_ALPHA_BETA_PATHWAY
                                                                                               FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_DN, FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_DN
                                                                                               GOCC_SEPTIN_COMPLEX, GOCC_SEPTIN_COMPLEX
                                                                                               GOBP SNO S RNA METABOLIC PROCESS, GOBP SNO S RNA METABOLIC PROCESS
                                                                                                MIR5586_3P, MIR5586_3P
                                                                                               MIR3680_5P, MIR3680_5P
                                                                                               GOBP_WNT_SIGNALING_PATHWAY_CALCIUM_MODULATING_PATHWAY, GOBP_WNT_SIGNALING_PATHWAY_CALCIUM_MODULATING_PATHWAY
                                                                                               GOBP_PRE_MIRNA_PROCESSING, GOBP_PRE_MIRNA_PROCESSING
                                                                                               GOMF_RIBOSOMAL_LARGE_SUBUNIT_BINDING, GOMF_RIBOSOMAL_LARGE_SUBUNIT_BINDING
                                                                                               GOBP_HISTONE_H3_K9_DEMETHYLATION, GOBP_HISTONE_H3_K9_DEMETHYLATION
                                                                                               GOMF_HISTONE_DEMETHYLASE_ACTIVITY_H3_K9_SPECIFIC, GOMF_HISTONE_DEMETHYLASE_ACTIVITY_H3_K9_SPECIFIC
                                                                                               REACTOME_STING_MEDIATED_INDUCTION_OF_HOST_IMMUNE_RESPONSES, REACTOME_STING_MEDIATED_INDUCTION_OF_HOST_IMMUNE_RESPONSES
                                                                                               MODULE_362, MODULE_362
                                                                                               REACTOME_TRANSCRIPTIONAL_REGULATION_BY_MECP2, REACTOME_TRANSCRIPTIONAL_REGULATION_BY_MECP2
                                                                                               GOBP_INCLUSION_BODY_ASSEMBLY, GOBP_INCLUSION_BODY_ASSEMBLY
                                                                                               HP_DIFFUSE_WHITE_MATTER_ABNORMALITIES, HP_DIFFUSE_WHITE_MATTER_ABNORMALITIES
                                                                                               MIR7702. MIR7702
                                                                                               HP_ULNAR_DEVIATION_OF_THE_HAND, HP_ULNAR_DEVIATION_OF_THE_HAND
                                                                                               GOBP_PEPTIDYL_LYSINE_DIMETHYLATION, GOBP_PEPTIDYL_LYSINE_DIMETHYLATION
                                                                                               GOBP_RESPONSE_TO_LITHIUM_ION, GOBP_RESPONSE_TO_LITHIUM_ION
                                                                                               GOCC_H3_HISTONE_ACETYLTRANSFERASE_COMPLEX, GOCC_H3_HISTONE_ACETYLTRANSFERASE_COMPLEX
                                                                                               GOBP_PROTEIN_PALMITOYLATION, GOBP_PROTEIN_PALMITOYLATION
                                                                                               MIR375_3P, MIR375_3P
                                                                                               MODULE_395, MODULE_395
                                                                                                CACGTTT_MIR302A, CACGTTT_MIR302A
                                                                                               MANN_RESPONSE_TO_AMIFOSTINE_UP, MANN_RESPONSE_TO_AMIFOSTINE_UP
                                                                                               WP_PI3KAKTMTOR_VITD3_SIGNALLING, WP_PI3KAKTMTOR_VITD3_SIGNALLING
                                                                                               GOBP_POSITIVE_REGULATION_OF_LAMELLIPODIUM_ASSEMBLY, GOBP_POSITIVE_REGULATION_OF_LAMELLIPODIUM_ASSEMBLY
                                                                                               GOBP_POSITIVE_REGULATION_OF_PROTEIN_CONTAINING_COMPLEX_DISASSEMBLY, GOBP_POSITIVE_REGULATION_OF_PROTEIN_CONTAINING_COMPLEX_DISASSEMBLY
                                                                                               HP_GIANT_PLATELETS, HP_GIANT_PLATELETS
                                                                                               GOMF PYRIMIDINE NUCLEOTIDE SUGAR TRANSMEMBRANE TRANSPORTER ACTIVITY, GOMF PYRIMIDINE NUCLEOTIDE SUGAR TRANSMEMBRANE TRANSPORTER ACTIVITY
                                                                                               HP_CRANIOFACIAL_HYPEROSTOSIS, HP_CRANIOFACIAL_HYPEROSTOSIS
                                                                                               MODULE_509, MODULE_509
                                                                                               STAMBOLSKY_RESPONSE_TO_VITAMIN_D3_UP, STAMBOLSKY_RESPONSE_TO_VITAMIN_D3_UP
                                                                                               REACTOME_BMAL1_CLOCK_NPAS2_ACTIVATES_CIRCADIAN_GENE_EXPRESSION, REACTOME_BMAL1_CLOCK_NPAS2_ACTIVATES_CIRCADIAN_GENE_EXPRESSION
                                                                                               REACTOME_IRF3_MEDIATED_INDUCTION_OF_TYPE_I_IFN, REACTOME_IRF3_MEDIATED_INDUCTION_OF_TYPE_I_IFN
                                                                                               MIR9903, MIR9903
                                                                                               MORF_MYC, MORF_MYC
                                                                                               HP_SYSTEMIC_LUPUS_ERYTHEMATOSUS, HP_SYSTEMIC_LUPUS_ERYTHEMATOSUS
                                                                                               GOBP_PROTEIN_LOCALIZATION_TO_CELL_CELL_JUNCTION, GOBP_PROTEIN_LOCALIZATION_TO_CELL_CELL_JUNCTION
                                                                                               WILLIAMS_ESR2_TARGETS_UP, WILLIAMS_ESR2_TARGETS_UP
                                                                                               REACTOME_TRANSPORT_OF_NUCLEOTIDE_SUGARS, REACTOME_TRANSPORT_OF_NUCLEOTIDE_SUGARS
                                                                                               GOBP PEPTIDYL L CYSTEINE S PALMITOYLATION, GOBP PEPTIDYL L CYSTEINE S PALMITOYLATION
                                                                                               GOMF_QUATERNARY_AMMONIUM_GROUP_BINDING, GOMF_QUATERNARY_AMMONIUM_GROUP_BINDING
                                                                                               HP_APLASIA_HYPOPLASIA_INVOLVING_THE_SKELETAL_MUSCULATURE, HP_APLASIA_HYPOPLASIA_INVOLVING_THE_SKELETAL_MUSCULATURE
                                                                                               GOBP_REGULATION_OF_LAMELLIPODIUM_ASSEMBLY, GOBP_REGULATION_OF_LAMELLIPODIUM_ASSEMBLY
                                                                                               GOBP_REGULATION_OF_RETINOIC_ACID_RECEPTOR_SIGNALING_PATHWAY, GOBP_REGULATION_OF_RETINOIC_ACID_RECEPTOR_SIGNALING_PATHWAY
                                                                                               HP VARICOSE VEINS, HP VARICOSE VEINS
                                                                                               HP_ABNORMALITY_OF_LYSOSOMAL_METABOLISM, HP_ABNORMALITY_OF_LYSOSOMAL_METABOLISM
                                                                                               HP_FLAT_NASAL_ALAE, HP_FLAT_NASAL_ALAE
                                                                                               GOBP_NEGATIVE_REGULATION_OF_HISTONE_METHYLATION, GOBP_NEGATIVE_REGULATION_OF_HISTONE_METHYLATION
                                                                                               HP ANKYLOBLEPHARON, HP ANKYLOBLEPHARON
                                                                                               HP_ABNORMAL_PLATELET_MEMBRANE_PROTEIN_EXPRESSION, HP_ABNORMAL_PLATELET_MEMBRANE_PROTEIN_EXPRESSION
                                                                                              GOBP_POSITIVE_REGULATION_OF_NMDA_GLUTAMATE_RECEPTOR_ACTIVITY, GOBP_POSITIVE_REGULATION_OF_NMDA_GLUTAMATE_RECEPTOR_ACTIVITY
                                                                                               GOBP_REGULATION_OF_HISTONE_H4_K16_ACETYLATION, GOBP_REGULATION_OF_HISTONE_H4_K16_ACETYLATION
                                                                                               GOMF_U2_SNRNA_BINDING, GOMF_U2_SNRNA_BINDING
                                                                                              GOBP_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION_TO_CHROMATIN, GOBP_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION_TO_CHROMATIN
                                                                                               GOMF_BUBBLE_DNA_BINDING, GOMF_BUBBLE_DNA_BINDING
                                                                                               HP_SCLEROSIS_OF_SKULL_BASE, HP_SCLEROSIS_OF_SKULL_BASE
                                                                                               HP PAIN IN HEAD AND NECK REGION, HP PAIN IN HEAD AND NECK REGION
                                                                                               YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_DN, YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_DN
                                                                                               HP_SUBCORTICAL_HETEROTOPIA, HP_SUBCORTICAL_HETEROTOPIA
                                                                                               GOMF_PHOSPHATIDYLETHANOLAMINE_BINDING, GOMF_PHOSPHATIDYLETHANOLAMINE_BINDING
                                                                                              GOBP_REGULATION_OF_INCLUSION_BODY_ASSEMBLY, GOBP_REGULATION_OF_INCLUSION_BODY_ASSEMBLY
                                                                                               HP_VENOUS_INSUFFICIENCY, HP_VENOUS_INSUFFICIENCY
                                                                                               PRDM5_TARGET_GENES, PRDM5_TARGET_GENES
                                                                                               GOBP_REGULATION_OF_HISTONE_H3_K9_ACETYLATION, GOBP_REGULATION_OF_HISTONE_H3_K9_ACETYLATION
                                                                                               GOBP SPERMATID NUCLEUS DIFFERENTIATION, GOBP SPERMATID NUCLEUS DIFFERENTIATION
                                                                                               GOBP_POSITIVE_REGULATION_OF_T_CELL_CYTOKINE_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_T_CELL_CYTOKINE_PRODUCTION
                                                                                               HP_THYROID_AGENESIS, HP_THYROID_AGENESIS
                                                                                               REACTOME_NR1H2_NR1H3_REGULATE_GENE_EXPRESSION_TO_LIMIT_CHOLESTEROL_UPTAKE, REACTOME_NR1H2_NR1H3_REGULATE_GENE_EXPRESSION_TO_LIMIT_CHOLESTEROL_UPTAKE
                                                                                               GOBP_WHITE_FAT_CELL_DIFFERENTIATION, GOBP_WHITE_FAT_CELL_DIFFERENTIATION
                                                                                                MIR548AO_3P, MIR548AO_3P
                                                                                               GOBP_REGULATION_OF_HISTONE_H3_K9_METHYLATION, GOBP_REGULATION_OF_HISTONE_H3_K9_METHYLATION
                                                                                               WP_EBV_LMP1_SIGNALING, WP_EBV_LMP1_SIGNALING
                                                                                               GOBP_RNA_DECAPPING, GOBP_RNA_DECAPPING
                                                                                               HP_THYROID_DYSGENESIS, HP_THYROID_DYSGENESIS
                                                                                               GOBP_NEGATIVE_REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER_IN_RESPONSE_TO_STRESS, GOBP_NEGATIVE_REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER_IN_RESPONSE_TO_STRESS
                                                                                               HP_ABNORMAL_CRY, HP_ABNORMAL_CRY
                                                                                               GNF2_PCAF, GNF2_PCAF
                                                                                               WIKMAN_ASBESTOS_LUNG_CANCER_UP, WIKMAN_ASBESTOS_LUNG_CANCER_UP
                                                                                               GOCC_INTRINSIC_COMPONENT_OF_NUCLEAR_INNER_MEMBRANE, GOCC_INTRINSIC_COMPONENT_OF_NUCLEAR_INNER_MEMBRANE
                                                                                               DAVIES_MULTIPLE_MYELOMA_VS_MGUS_UP, DAVIES_MULTIPLE_MYELOMA_VS_MGUS_UP
                                                                                               HOFT_CD4_POSITIVE_ALPHA_BETA_MEMORY_T_CELL_BCG_VACCINE_AGE_18_45YO_ID_7DY_TOP_100_DEG_EX_VIVO_UP, HOFT_CD4_POSITIVE_ALPHA_BETA_MEMORY_T_CELL_BCG_VACCINE_AGE_18_45YO_ID_7DY_TOP_100_DEG_EX_VIVO_UP
                                                                                               GOCC_SEMAPHORIN_RECEPTOR_COMPLEX, GOCC_SEMAPHORIN_RECEPTOR_COMPLEX
                                                                                               MATSUMIYA_BLOOD_MODIFIED_VACCINIA_ANKARA_VACCINE_AGE_4_6MO_VACCINATED_VS_CANDIN_PLACEBO_BCG_PRIMED_1DY_DN, MATSUMIYA_BLOOD_MODIFIED_VACCINIA_ANKARA_VACCINE_AGE_4_6MO_VACCINATED_VS_CANDIN_PLACEBO_BCG_PRIMED_1DY_DN
                                                                                               GOBP_NEGATIVE_REGULATION_OF_INCLUSION_BODY_ASSEMBLY, GOBP_NEGATIVE_REGULATION_OF_INCLUSION_BODY_ASSEMBLY
                                                                                               GOBP_MICROTUBULE_ANCHORING_AT_CENTROSOME, GOBP_MICROTUBULE_ANCHORING_AT_CENTROSOME
                                                                                               REACTOME_RORA_ACTIVATES_GENE_EXPRESSION, REACTOME_RORA_ACTIVATES_GENE_EXPRESSION
                                                                                               GOBP_ENDOPLASMIC_RETICULUM_LOCALIZATION, GOBP_ENDOPLASMIC_RETICULUM_LOCALIZATION
                                                                                               HP_AORTIC_ATHEROSCLEROTIC_LESION, HP_AORTIC_ATHEROSCLEROTIC_LESION
                                                                                               MIR371A_3P, MIR371A_3P
                                                                                               HP_FOAM_CELLS, HP_FOAM_CELLS
                                                                                               HP_APLASIA_HYPOPLASIA_OF_THE_5TH_METACARPAL, HP_APLASIA_HYPOPLASIA_OF_THE_5TH_METACARPAL
                                                                                               HP_VISUAL_FIXATION_INSTABILITY, HP_VISUAL_FIXATION_INSTABILITY
                                                                                                GOMF_URIDYLYLTRANSFERASE_ACTIVITY, GOMF_URIDYLYLTRANSFERASE_ACTIVITY
                                                                                                MEISSNER_NPC_ICP_WITH_H3K4ME3, MEISSNER_NPC_ICP_WITH_H3K4ME3
                                                                                               GOBP_POSITIVE_REGULATION_OF_INTRACELLULAR_STEROID_HORMONE_RECEPTOR_SIGNALING_PATHWAY, GOBP_POSITIVE_REGULATION_OF_INTRACELLULAR_STEROID_HORMONE_RECEPTOR_SIGNALING_PATHWAY
                                                                                               GOBP_CAVEOLIN_MEDIATED_ENDOCYTOSIS, GOBP_CAVEOLIN_MEDIATED_ENDOCYTOSIS
                                                                                               GSE12707_AT16L1_HYPOMORPH_VS_WT_THYMUS_DN, GSE12707_AT16L1_HYPOMORPH_VS_WT_THYMUS_DN
                                                                                               HP_MACULAR_THICKENING, HP_MACULAR_THICKENING
                                                                                                GOCC_EXOCYST, GOCC_EXOCYST
                                                                                                MIR2277_3P, MIR2277_3P
                                                                                                MEISSNER_ES_ICP_WITH_H3K4ME3, MEISSNER_ES_ICP_WITH_H3K4ME3
                                                                                                REACTOME_AQUAPORIN_MEDIATED_TRANSPORT, REACTOME_AQUAPORIN_MEDIATED_TRANSPORT
                                                                                               GOBP_REGULATION_OF_LYASE_ACTIVITY, GOBP_REGULATION_OF_LYASE_ACTIVITY
                                                                                               GOBP_SEMAPHORIN_PLEXIN_SIGNALING_PATHWAY_INVOLVED_IN_AXON_GUIDANCE, GOBP_SEMAPHORIN_PLEXIN_SIGNALING_PATHWAY_INVOLVED_IN_AXON_GUIDANCE
                                                                                               HP_ULCERATIVE_COLITIS, HP_ULCERATIVE_COLITIS
                                                                                               HP_ABNORMAL_OSSIFICATION_INVOLVING_THE_FEMORAL_HEAD_AND_NECK, HP_ABNORMAL_OSSIFICATION_INVOLVING_THE_FEMORAL_HEAD_AND_NECK
                                                                                               GOBP_REGULATION_OF_TOLL_LIKE_RECEPTOR_9_SIGNALING_PATHWAY, GOBP_REGULATION_OF_TOLL_LIKE_RECEPTOR_9_SIGNALING_PATHWAY
                                                                                               GOBP_POSITIVE_REGULATION_OF_CHROMATIN_BINDING, GOBP_POSITIVE_REGULATION_OF_CHROMATIN_BINDING
                                                                                                GOBP_SPHINGOSINE_BIOSYNTHETIC_PROCESS, GOBP_SPHINGOSINE_BIOSYNTHETIC_PROCESS
                                                                                                GOCC_AP_3_ADAPTOR_COMPLEX, GOCC_AP_3_ADAPTOR_COMPLEX
                                                                                               HP_PROGRESSIVE_EXTRAPYRAMIDAL_MOVEMENT_DISORDER, HP_PROGRESSIVE_EXTRAPYRAMIDAL_MOVEMENT_DISORDER
                                                                                               GOBP_POSITIVE_REGULATION_OF_PROTEIN_DEPOLYMERIZATION, GOBP_POSITIVE_REGULATION_OF_PROTEIN_DEPOLYMERIZATION
```

GSE13484_UNSTIM_VS_3H_YF17D_VACCINE_STIM_PBMC_UP, GSE13484_UNSTIM_VS_3H_YF17D_VACCINE_STIM_PBMC_UP

GSE2706_UNSTIM_VS_8H_LPS_AND_R848_DC_UP, GSE2706_UNSTIM_VS_8H_LPS_AND_R848_DC_UP

GSE14000_UNSTIM_VS_16H_LPS_DC_UP, GSE14000_UNSTIM_VS_16H_LPS_DC_UP

GCM_MYST2, GCM_MYST2

GSE36826 NORMAL VS STAPH AUREUS INF IL1R KO SKIN DN. GSE36826 NORMAL VS STAPH AUREUS INF IL1R KO SKIN DN