HP NARROW MOUTH, HP NARROW MOUTH HP_MALABSORPTION, HP_MALABSORPTION MIR4473, MIR4473 MODULE_292, MODULE_292 HP_COUGH, HP_COUGH MIR3908, MIR3908 IORY BCELL VS PLASMA CELL UP, GSE13411 SWITCHED MEMORY BCELL VS PLASMA CELL UP PID_TRAIL_PATHWAY, PID_TRAIL_PATHWAY PID_NETRIN_PATHWAY, PID_NETRIN_PATHWAY HP_IMPOTENCE, HP_IMPOTENCE chr2p23, chr2p23 MODULE_148, MODULE_148

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GSE12366_GC_VS_NAIVE_BCELL_DN, GSE12366_GC_VS_NAIVE_BCELL_DN
  GSE13411_IGM_MEMORY_BCELL_VS_PLASMA_CELL_UP, GSE13411_IGM_MEMORY_BCELL_VS_PLASMA_CELL_UP
  GSE20727_CTRL_VS_H2O2_TREATED_DC_DN, GSE20727_CTRL_VS_H2O2_TREATED_DC_DN
  GSE29949_CD8_NEG_DC_SPLEEN_VS_DC_BRAIN_DN, GSE29949_CD8_NEG_DC_SPLEEN_VS_DC_BRAIN_DN
  GSE37533_PPARG1_FOXP3_VS_FOXP3_TRANSDUCED_CD4_TCELL_DN, GSE37533_PPARG1_FOXP3_VS_FOXP3_TRANSDUCED_CD4_TCELL_DN
  GSE41867_MEMORY_VS_EXHAUSTED_CD8_TCELL_DAY30_LCMV_UP, GSE41867_MEMORY_VS_EXHAUSTED_CD8_TCELL_DAY30_LCMV_UP
  GSE24634_IL4_VS_CTRL_TREATED_NAIVE_CD4_TCELL_DAY3_DN, GSE24634_IL4_VS_CTRL_TREATED_NAIVE_CD4_TCELL_DAY3_DN
 GSE3982_CTRL_VS_LPS_1H_NEUTROPHIL_UP, GSE3982_CTRL_VS_LPS_1H_NEUTROPHIL_UP
 GSE6259_FLT3L_INDUCED_VS_WT_SPLENIC_DC_33D1_POS_UP, GSE6259_FLT3L_INDUCED_VS_WT_SPLENIC_DC_33D1_POS_UP
 GSE29618 PRE_VS_DAY7_POST_LAIV_FLU_VACCINE_BCELL_UP, GSE29618 PRE_VS_DAY7_POST_LAIV_FLU_VACCINE_BCELL_UP
 GSE3982_MAST_CELL_VS_BCELL_DN, GSE3982_MAST_CELL_VS_BCELL_DN
  GSE29164_DAY3_VS_DAY7_UNTREATED_MELANOMA_UP, GSE29164_DAY3_VS_DAY7_UNTREATED_MELANOMA_UP
 GSE36527 CD69 NEG_VS_POS_TREG_CD62L_LOS_KLRG1_NEG_UP, GSE36527_CD69_NEG_VS_POS_TREG_CD62L_LOS_KLRG1_NEG_UP
 GSE29618_PRE_VS_DAY7_POST_TIV_FLU_VACCINE_MDC_DN, GSE29618_PRE_VS_DAY7_POST_TIV_FLU_VACCINE_MDC_DN
  GOBP_POSITIVE_REGULATION_OF_NF_KAPPAB_TRANSCRIPTION_FACTOR_ACTIVITY, GOBP_POSITIVE_REGULATION_OF_NF_KAPPAB_TRANSCRIPTION_FACTO
  GSE10500_ARTHRITIC_SYNOVIAL_FLUID_VS_HEALTHY_MACROPHAGE_DN, GSE10500_ARTHRITIC_SYNOVIAL_FLUID_VS_HEALTHY_MACROPHAGE_DN
  GSE42021_CD24INT_VS_CD24LOW_TCONV_THYMUS_DN, GSE42021_CD24INT_VS_CD24LOW_TCONV_THYMUS_DN
  GSE3982_EOSINOPHIL_VS_TH2_UP, GSE3982_EOSINOPHIL_VS_TH2_UP
  GSE29949_CD8_POS_DC_SPLEEN_VS_MONOCYTE_BONE_MARROW_UP, GSE29949_CD8_POS_DC_SPLEEN_VS_MONOCYTE_BONE_MARROW_UP
  GSE17721 LPS VS PAM3CSK4 4H BMDC UP, GSE17721 LPS VS PAM3CSK4 4H BMDC UP
  GSE42021_CD24HI_VS_CD24LOW_TREG_THYMUS_DN, GSE42021_CD24HI_VS_CD24LOW_TREG_THYMUS_DN
  GSE42021 CD24INT VS CD24LOW TREG THYMUS DN, GSE42021 CD24INT VS CD24LOW TREG THYMUS DN
  GSE37605_NOD_VS_C57BL6_IRES_GFP_TREG_DN, GSE37605_NOD_VS_C57BL6_IRES_GFP_TREG_DN
  GSE3982_CENT_MEMORY_CD4_TCELL_VS_TH1_UP, GSE3982_CENT_MEMORY_CD4_TCELL_VS_TH1_UP
  GSE28737_WT_VS_BCL6_KO_FOLLICULAR_BCELL_UP, GSE28737_WT_VS_BCL6_KO_FOLLICULAR_BCELL_UP
  REACTOME TOLL LIKE RECEPTOR 9 TLR9 CASCADE, REACTOME TOLL LIKE RECEPTOR 9 TLR9 CASCADE
  GOBP_REGULATION_OF_LYMPHOCYTE_DIFFERENTIATION, GOBP_REGULATION_OF_LYMPHOCYTE_DIFFERENTIATION
  WP_ANGIOPOIETIN_LIKE_PROTEIN_8_REGULATORY_PATHWAY, WP_ANGIOPOIETIN_LIKE_PROTEIN_8_REGULATORY_PATHWAY
  REACTOME_SIGNALING_BY_TGF_BETA_RECEPTOR_COMPLEX, REACTOME_SIGNALING_BY_TGF_BETA_RECEPTOR_COMPLEX
  HP_RECURRENT_BACTERIAL_INFECTIONS, HP_RECURRENT_BACTERIAL_INFECTIONS
  GSE360_L_MAJOR_VS_B_MALAYI_LOW_DOSE_MAC_UP, GSE360_L_MAJOR_VS_B_MALAYI_LOW_DOSE_MAC_UP
  REACTOME_SIGNALING_BY_TGFB_FAMILY_MEMBERS, REACTOME_SIGNALING_BY_TGFB_FAMILY_MEMBERS
  GSE22886_NAIVE_BCELL_VS_MONOCYTE_UP, GSE22886_NAIVE_BCELL_VS_MONOCYTE_UP
  KERLEY_RESPONSE_TO_CISPLATIN_UP, KERLEY_RESPONSE_TO_CISPLATIN_UP
  GSE37605_NOD_VS_C57BL6_IRES_GFP_TREG_UP, GSE37605_NOD_VS_C57BL6_IRES_GFP_TREG_UP
  GOBP_POSITIVE_REGULATION_OF_LEUKOCYTE_PROLIFERATION, GOBP_POSITIVE_REGULATION_OF_LEUKOCYTE_PROLIFERATION
  GOBP_CELL_SUBSTRATE_JUNCTION_ORGANIZATION, GOBP_CELL_SUBSTRATE_JUNCTION_ORGANIZATION
✓ HP RECURRENT_SKIN_INFECTIONS, HP_RECURRENT_SKIN_INFECTIONS
  GOBP_ACTIVATION_OF_GTPASE_ACTIVITY, GOBP_ACTIVATION_OF_GTPASE_ACTIVITY
  GAZDA DIAMOND BLACKFAN ANEMIA MYELOID UP, GAZDA DIAMOND BLACKFAN ANEMIA MYELOID UP
  GOBP_REGULATION_OF_LIPID_KINASE_ACTIVITY, GOBP_REGULATION_OF_LIPID_KINASE_ACTIVITY
  GOBP_POSITIVE_REGULATION_OF_ALPHA_BETA_T_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_ALPHA_BETA_T_CELL_ACTIVATION
  GOBP_ACTIVATION_OF_NF_KAPPAB_INDUCING_KINASE_ACTIVITY, GOBP_ACTIVATION_OF_NF_KAPPAB_INDUCING_KINASE_ACTIVITY
  GOBP_POLYOL_CATABOLIC_PROCESS, GOBP_POLYOL_CATABOLIC_PROCESS
  WP_IL2_SIGNALING_PATHWAY, WP_IL2_SIGNALING_PATHWAY
  GOBP_POSITIVE_REGULATION_OF_ALPHA_BETA_T_CELL_DIFFERENTIATION, GOBP_POSITIVE_REGULATION_OF_ALPHA_BETA_T_CELL_DIFFERENTIATION
  PID_ERBB1_INTERNALIZATION_PATHWAY, PID_ERBB1_INTERNALIZATION_PATHWAY
  REACTOME_DAP12_INTERACTIONS, REACTOME_DAP12_INTERACTIONS
  GOBP_POSITIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL
  ZHONG_PFC_C8_UNKNOWN_NEUROD2_POS_INTERNEURON, ZHONG_PFC_C8_UNKNOWN_NEUROD2_POS_INTERNEURON
  GSE34217_MIR17_92_OVEREXPRESS_VS_WT_ACT_CD8_TCELL_UP, GSE34217_MIR17_92_OVEREXPRESS_VS_WT_ACT_CD8_TCELL_UP
  GOCC_NUCLEAR_CYCLIN_DEPENDENT_PROTEIN_KINASE_HOLOENZYME_COMPLEX, GOCC_NUCLEAR_CYCLIN_DEPENDENT_PROTEIN_KINASE_HOLOENZYM
  GOBP_IONOTROPIC_GLUTAMATE_RECEPTOR_SIGNALING_PATHWAY, GOBP_IONOTROPIC_GLUTAMATE_RECEPTOR_SIGNALING_PATHWAY
  VOIGT_PBMC_FLUARIX_AGE_50_74YO_FEMALES_VS_MALES_0DY_TO_28D_UP, VOIGT_PBMC_FLUARIX_AGE_50_74YO_FEMALES_VS_MALES_0DY_TO_28D_UP
  WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_DN, WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_DN
  GOBP_LEUKOCYTE_MIGRATION_INVOLVED_IN_INFLAMMATORY_RESPONSE, GOBP_LEUKOCYTE_MIGRATION_INVOLVED_IN_INFLAMMATORY_RESPONSE
  REACTOME_TP53_REGULATES_TRANSCRIPTION_OF_DEATH_RECEPTORS_AND_LIGANDS, REACTOME_TP53_REGULATES_TRANSCRIPTION_OF_DEATH_RECEPTORS_AND_LIGANDS_TRANSCRIPTION_OF_DEATH_RECEPTORS_TRANSCRIPTION_OF_DEATH_RECEPTORS_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_TRANSCRIPTION_TP53_REGULATES_T
  REACTOME_REGULATION_OF_TP53_ACTIVITY_THROUGH_ASSOCIATION_WITH_CO_FACTORS, REACTOME_REGULATION_OF_TP53_ACTIVITY_THROUGH_ASSOCIATION_WITH_TP53_ACTIVITY_THROUGH_ASSOCIATION_WITH_TP53_ACTIVITY_THROUGH_ASSOCIATION_TRANSPORT_TP53_ACTIVITY_THROUGH_ASSOCIATION_TRANSPORT_TP53_ACTIVITY_THROUGH_ASSOCIATION_TRANSPORT_TP53_ACTIVITY_THROUGH_ASSOCIATION_TRANSPORT_TP53_ACTIVITY_THROUGH_ASSOCIATION_TRANSPORT_TP53_ACTIVITY_THROUGH_ASSOCIATION_TRANSPORT_TP53_ACTIVITY_THROUGH_ASSOCIATION_TRANSPORT_TP53_ACTIVITY_THROUGH_ASSOCIATION_TRANSPORT_TP53_ACTIVITY_THROUGH_ASSOCIATION_TRANSPORT_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY_TP53_ACTIVITY_TRANSPORT_TP53_ACTIVITY
  WP_LET7_INHIBITION_OF_ES_CELL_REPROGRAMMING, WP_LET7_INHIBITION_OF_ES_CELL_REPROGRAMMING
  REACTOME_BIOSYNTHESIS_OF_SPECIALIZED_PRORESOLVING_MEDIATORS_SPMS, REACTOME_BIOSYNTHESIS_OF_SPECIALIZED_PRORESOLVING_MEDIATORS_
  GOBP_ACTIVATION_OF_JANUS_KINASE_ACTIVITY, GOBP_ACTIVATION_OF_JANUS_KINASE_ACTIVITY
 GOBP_LIPOXYGENASE_PATHWAY, GOBP_LIPOXYGENASE_PATHWAY
 GOBP_PHAGOLYSOSOME_ASSEMBLY, GOBP_PHAGOLYSOSOME_ASSEMBLY
 REACTOME_INTERLEUKIN_15_SIGNALING, REACTOME_INTERLEUKIN_15_SIGNALING
 CLAUS_PGR_POSITIVE_MENINGIOMA_DN, CLAUS_PGR_POSITIVE_MENINGIOMA_DN
 REACTOME_SYNTHESIS_OF_LEUKOTRIENES_LT_AND_EOXINS_EX, REACTOME_SYNTHESIS_OF_LEUKOTRIENES_LT_AND_EOXINS_EX
 GOMF_1_PHOSPHATIDYLINOSITOL_3_KINASE_REGULATOR_ACTIVITY, GOMF_1_PHOSPHATIDYLINOSITOL_3_KINASE_REGULATOR_ACTIVITY
 GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_17_PRODUCTION, GOBP_POSITIVE_REGULATION_OF_INTERLEUKIN_17_PRODUCTION
 GOBP_POSITIVE_REGULATION_OF_PEPTIDYL_THREONINE_PHOSPHORYLATION, GOBP_POSITIVE_REGULATION_OF_PEPTIDYL_THREONINE_PHOSPHORYLATIO
 HP_ABNORMALITY_OF_THE_STAPES, HP_ABNORMALITY_OF_THE_STAPES
 REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNALING_FOR_INTEGRINS, REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNALING_FOR_INTEGRINS
 GOBP_POSITIVE_REGULATION_OF_T_HELPER_CELL_DIFFERENTIATION, GOBP_POSITIVE_REGULATION_OF_T_HELPER_CELL_DIFFERENTIATION
  GOBP_LONG_TERM_SYNAPTIC_POTENTIATION, GOBP_LONG_TERM_SYNAPTIC_POTENTIATION
  HP_APLASTIC_HYPOPLASTIC_LACRIMAL_GLANDS, HP_APLASTIC_HYPOPLASTIC_LACRIMAL_GLANDS
 GOCC_NMDA_SELECTIVE_GLUTAMATE_RECEPTOR_COMPLEX, GOCC_NMDA_SELECTIVE_GLUTAMATE_RECEPTOR_COMPLEX
  SMID BREAST_CANCER_RELAPSE_IN_PLEURA_UP, SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
  GOBP_LEUKOCYTE_CHEMOTAXIS_INVOLVED_IN_INFLAMMATORY_RESPONSE, GOBP_LEUKOCYTE_CHEMOTAXIS_INVOLVED_IN_INFLAMMATORY_RESPONSE
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HP_IMPAIRED_LYMPHOCYTE_TRANSFORMATION_WITH_PHYTOHEMAGGLUTININ, HP_IMPAIRED_LYMPHOCYTE_TRANSFORMATION_WITH_PHYTOHEMAGGI

GSE17301_CTRL_VS_48H_IFNA2_STIM_CD8_TCELL_UP, GSE17301_CTRL_VS_48H_IFNA2_STIM_CD8_TCELL_UP