```
GSE29949_CD8_POS_DC_SPLEEN_VS_DC_BRAIN_UP, GSE29949_CD8_POS_DC_SPLEEN_VS_DC_BRAIN_UP
 GSE24814_STAT5_KO_VS_WT_PRE_BCELL_DN, GSE24814_STAT5_KO_VS_WT_PRE_BCELL_DN
 GSE22103_UNSTIM_VS_LPS_STIM_NEUTROPHIL_UP, GSE22103_UNSTIM_VS_LPS_STIM_NEUTROPHIL_UP
 GSE17721_CTRL_VS_CPG_1H_BMDC_UP, GSE17721_CTRL_VS_CPG_1H_BMDC_UP
 GSE37301_HEMATOPOIETIC_STEM_CELL_VS_RAG2_KO_NK_CELL_DN, GSE37301_HEMATOPOIETIC_STEM_CELL_VS_RAG2_KO_NK_CELL_DN
 GSE17186_NAIVE_VS_CD21LOW_TRANSITIONAL_BCELL_UP, GSE17186_NAIVE_VS_CD21LOW_TRANSITIONAL_BCELL_UP
 GSE17721_CTRL_VS_PAM3CSK4_24H_BMDC_DN, GSE17721_CTRL_VS_PAM3CSK4_24H_BMDC_DN
GSE8921_UNSTIM_VS_TLR1_2_STIM_MONOCYTE_3H_DN, GSE8921_UNSTIM_VS_TLR1_2_STIM_MONOCYTE_3H_DN
GSE32423_CTRL_VS_IL7_IL4_MEMORY_CD8_TCELL_UP, GSE32423_CTRL_VS_IL7_IL4_MEMORY_CD8_TCELL_UP
GSE43955_TH0_VS_TGFB_IL6_IL23_TH17_ACT_CD4_TCELL_60H_DN, GSE43955_TH0_VS_TGFB_IL6_IL23_TH17_ACT_CD4_TCELL_60H_DN
GSE17721_PAM3CSK4_VS_GADIQUIMOD_8H_BMDC_DN, GSE17721_PAM3CSK4_VS_GADIQUIMOD_8H_BMDC_DN
 ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_DN, ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_DN
 GSE5589_UNSTIM_VS_180MIN_LPS_AND_IL10_STIM_MACROPHAGE_DN, GSE5589_UNSTIM_VS_180MIN_LPS_AND_IL10_STIM_MACROPHAGE_DN
 GSE39556_CD8A_DC_VS_NK_CELL_DN, GSE39556_CD8A_DC_VS_NK_CELL_DN
 GSE23568_CTRL_TRANSDUCED_VS_WT_CD8_TCELL_DN, GSE23568_CTRL_TRANSDUCED_VS_WT_CD8_TCELL_DN
GSE360_HIGH_VS_LOW_DOSE_B_MALAYI_DC_UP, GSE360_HIGH_VS_LOW_DOSE_B_MALAYI_DC_UP
GSE39022_LN_VS_SPLEEN_DC_UP, GSE39022_LN_VS_SPLEEN_DC_UP
GSE29949_DC_BRAIN_VS_MONOCYTE_BONE_MARROW_UP, GSE29949_DC_BRAIN_VS_MONOCYTE_BONE_MARROW_UP
GSE339_EX_VIVO_VS_IN_CULTURE_CD4CD8DN_DC_DN, GSE339_EX_VIVO_VS_IN_CULTURE_CD4CD8DN_DC_DN
GSE30971_WBP7_HET_VS_KO_MACROPHAGE_UP, GSE30971_WBP7_HET_VS_KO_MACROPHAGE_UP
MODULE 206, MODULE 206
GSE1460_CORD_VS_ADULT_BLOOD_NAIVE_CD4_TCELL_UP, GSE1460_CORD_VS_ADULT_BLOOD_NAIVE_CD4_TCELL_UP
GSE29949_CD8_POS_DC_SPLEEN_VS_MONOCYTE_BONE_MARROW_DN, GSE29949_CD8_POS_DC_SPLEEN_VS_MONOCYTE_BONE_MARROW_DN
GO_RUFFLE, GO_RUFFLE
GSE3982_EOSINOPHIL_VS_DC_UP, GSE3982_EOSINOPHIL_VS_DC_UP
 VILIMAS NOTCH1 TARGETS UP, VILIMAS NOTCH1 TARGETS UP
 SNACANNNYSYAGA_UNKNOWN, SNACANNNYSYAGA_UNKNOWN
GO_CYTOSKELETON_DEPENDENT_INTRACELLULAR_TRANSPORT, GO_CYTOSKELETON_DEPENDENT_INTRACELLULAR_TRANSPORT
 GSE17974_IL4_AND_ANTI_IL12_VS_UNTREATED_2H_ACT_CD4_TCELL_UP, GSE17974_IL4_AND_ANTI_IL12_VS_UNTREATED_2H_ACT_CD4_TCELL_UP
 GSE25088_CTRL_VS_IL4_STIM_MACROPHAGE_DN, GSE25088_CTRL_VS_IL4_STIM_MACROPHAGE_DN
 GSE26727_WT_VS_KLF2_KO_LPS_STIM_MACROPHAGE_UP, GSE26727_WT_VS_KLF2_KO_LPS_STIM_MACROPHAGE_UP
 CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_CDC25_DN, CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_CDC25_DN
 BOSCO_ALLERGEN_INDUCED_TH2_ASSOCIATED_MODULE, BOSCO_ALLERGEN_INDUCED_TH2_ASSOCIATED_MODULE
  JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN, JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN
 CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_UP, CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_UP
 MODULE_73, MODULE_73
 GSE23321_EFFECTOR_MEMORY_VS_NAIVE_CD8_TCELL_UP, GSE23321_EFFECTOR_MEMORY_VS_NAIVE_CD8_TCELL_UP
 GSE4142_NAIVE_VS_GC_BCELL_UP, GSE4142_NAIVE_VS_GC_BCELL_UP
 GO_RESPONSE_TO_TRANSFORMING_GROWTH_FACTOR_BETA, GO_RESPONSE_TO_TRANSFORMING_GROWTH_FACTOR_BETA
 GSE11961_MEMORY_BCELL_DAY7_VS_MEMORY_BCELL_DAY40_UP, GSE11961_MEMORY_BCELL_DAY7_VS_MEMORY_BCELL_DAY40_UP
 REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_MAP_KINASES, REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_MAP_KINASES
 REACTOME_NUCLEAR_EVENTS_KINASE_AND_TRANSCRIPTION_FACTOR_ACTIVATION, REACTOME_NUCLEAR_EVENTS_KINASE_AND_TRANSCRIPTION_FACTOR_ACTIVATION
 GAJATE_RESPONSE_TO_TRABECTEDIN_UP, GAJATE_RESPONSE_TO_TRABECTEDIN_UP
 PID_LYSOPHOSPHOLIPID_PATHWAY, PID_LYSOPHOSPHOLIPID_PATHWAY
 REACTOME_FORMATION_OF_TRANSCRIPTION_COUPLED_NER_TC_NER_REPAIR_COMPLEX, REACTOME_FORMATION_OF_TRANSCRIPTION_COUPLED_NER_TC_NER_REPAIR_COMPLEX
 FRASOR_RESPONSE_TO_ESTRADIOL_DN, FRASOR_RESPONSE_TO_ESTRADIOL_DN
 GO_CELLULAR_RESPONSE_TO_MECHANICAL_STIMULUS, GO_CELLULAR_RESPONSE_TO_MECHANICAL_STIMULUS
 REACTOME_NEGATIVE_REGULATORS_OF_RIG_I_MDA5_SIGNALING, REACTOME_NEGATIVE_REGULATORS_OF_RIG_I_MDA5_SIGNALING
 MODULE_265, MODULE_265
REACTOME_ERK_MAPK_TARGETS, REACTOME_ERK_MAPK_TARGETS
 GSE19941_UNSTIM_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_UP, GSE19941_UNSTIM_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_UP
 GSE17186_MEMORY_VS_CD21HIGH_TRANSITIONAL_BCELL_UP, GSE17186_MEMORY_VS_CD21HIGH_TRANSITIONAL_BCELL_UP
 REACTOME_SEMAPHORIN_INTERACTIONS, REACTOME_SEMAPHORIN_INTERACTIONS
 GSE19941_UNSTIM_VS_LPS_STIM_IL10_KO_MACROPHAGE_UP, GSE19941_UNSTIM_VS_LPS_STIM_IL10_KO_MACROPHAGE_UP
 GO_REGULATION_OF_TISSUE_REMODELING, GO_REGULATION_OF_TISSUE_REMODELING
 chrxq21, chrxq21
 GO_CYTOPLASMIC_MICROTUBULE, GO_CYTOPLASMIC_MICROTUBULE
  LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_LARGE_VS_TINY_UP, LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_LARGE_VS_TINY_UP
 GO_REGULATION_OF_BONE_REMODELING, GO_REGULATION_OF_BONE_REMODELING
 GSE33374_CD8_ALPHAALPHA_VS_ALPHABETA_CD161_HIGH_TCELL_UP, GSE33374_CD8_ALPHAALPHA_VS_ALPHABETA_CD161_HIGH_TCELL_UP
 KAPOSI_LIVER_CANCER_MET_UP, KAPOSI_LIVER_CANCER_MET_UP
 GO_ADAPTIVE_IMMUNE_RESPONSE_BASED_ON_SOMATIC_RECOMBINATION_OF_IMMUNE_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS, GO_ADAPTIVE_IMMUNE_RESPONSE_BASED_ON_SOMATIC_RECOMBINATION_OF_IMMUNE_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS, GO_ADAPTIVE_IMMUNE_RESPONSE_BASED_ON_SOMATIC_RECOMBINATION_OF_IMMUNE_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS, GO_ADAPTIVE_IMMUNE_RESPONSE_BASED_ON_SOMATIC_RECOMBINATION_OF_IMMUNE_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS, GO_ADAPTIVE_IMMUNE_RESPONSE_BASED_ON_SOMATIC_RECOMBINATION_OF_IMMUNE_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS, GO_ADAPTIVE_IMMUNE_RESPONSE_BASED_ON_SOMATIC_RECOMBINATION_OF_IMMUNE_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS, GO_ADAPTIVE_IMMUNE_RESPONSE_BASED_ON_SOMATIC_RECOMBINATION_OF_IMMUNE_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS, GO_ADAPTIVE_IMMUNE_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS, GO_ADAPTIVE_IMMUNE_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNE_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMAINS_RECEPTORS_BUILT_FROM_IMMUNOGLOBULIN_SUPERFAMILY_DOMA
 MODULE_289, MODULE_289
 GO_POSITIVE_REGULATION_OF_PROTEIN_POLYMERIZATION, GO_POSITIVE_REGULATION_OF_PROTEIN_POLYMERIZATION
 ALONSO_METASTASIS_EMT_UP, ALONSO_METASTASIS_EMT_UP
 GSE42021_CD24INT_TREG_VS_CD24INT_TCONV_THYMUS_DN, GSE42021_CD24INT_TREG_VS_CD24INT_TCONV_THYMUS_DN
 PID_ER_NONGENOMIC_PATHWAY, PID_ER_NONGENOMIC_PATHWAY
 RELA_DN.V1_UP, RELA_DN.V1_UP
GSE22611_MUTANT_NOD2_VS_CTRL_TRANSDUCED_HEK293T_CELL_DN, GSE22611_MUTANT_NOD2_VS_CTRL_TRANSDUCED_HEK293T_CELL_DN
 REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA_PKC_AND_MAPK, REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA_PKC_AND_MAPK
WU_HBX_TARGETS_1_DN, WU_HBX_TARGETS_1_DN
GSE30153_LUPUS_VS_HEALTHY_DONOR_BCELL_DN, GSE30153_LUPUS_VS_HEALTHY_DONOR_BCELL_DN
GO_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION, GO_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION
GO_DEVELOPMENTAL_PIGMENTATION, GO_DEVELOPMENTAL_PIGMENTATION
PID_ERBB1_RECEPTOR_PROXIMAL_PATHWAY, PID_ERBB1_RECEPTOR_PROXIMAL_PATHWAY
 GO_VESICLE_DOCKING_INVOLVED_IN_EXOCYTOSIS, GO_VESICLE_DOCKING_INVOLVED_IN_EXOCYTOSIS
GO_MAMMARY_GLAND_DUCT_MORPHOGENESIS, GO_MAMMARY_GLAND_DUCT_MORPHOGENESIS
GO_FEMALE_GAMETE_GENERATION, GO_FEMALE_GAMETE_GENERATION
GSE17974_IL4_AND_ANTI_IL12_VS_UNTREATED_6H_ACT_CD4_TCELL_UP, GSE17974_IL4_AND_ANTI_IL12_VS_UNTREATED_6H_ACT_CD4_TCELL_UP
GSE29949_CD8_NEG_DC_SPLEEN_VS_CD8_POS_DC_SPLEEN_UP, GSE29949_CD8_NEG_DC_SPLEEN_VS_CD8_POS_DC_SPLEEN_UP
DUNNE_TARGETS_OF_AML1_MTG8_FUSION_DN, DUNNE_TARGETS_OF_AML1_MTG8_FUSION_DN
GO_CELLULAR_RESPONSE_TO_VITAMIN_D, GO_CELLULAR_RESPONSE_TO_VITAMIN_D
GO_BRANCHING_INVOLVED_IN_MAMMARY_GLAND_DUCT_MORPHOGENESIS, GO_BRANCHING_INVOLVED_IN_MAMMARY_GLAND_DUCT_MORPHOGENESIS
GO_MAMMARY_GLAND_EPITHELIUM_DEVELOPMENT, GO_MAMMARY_GLAND_EPITHELIUM_DEVELOPMENT
GSE19888_CTRL_VS_A3R_ACT_TREATED_MAST_CELL_PRETREATED_WITH_A3R_INH_UP, GSE19888_CTRL_VS_A3R_ACT_TREATED_MAST_CELL_PRETREATED_WITH_A3R_INH_UP
 PID_SYNDECAN_1_PATHWAY, PID_SYNDECAN_1_PATHWAY
 chr8p22, chr8p22
GO_ASYMMETRIC_PROTEIN_LOCALIZATION, GO_ASYMMETRIC_PROTEIN_LOCALIZATION
GO_POSITIVE_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION, GO_POSITIVE_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION
BIOCARTA_EPHA4_PATHWAY, BIOCARTA_EPHA4_PATHWAY
BIOCARTA_ERK5_PATHWAY, BIOCARTA_ERK5_PATHWAY
GO MONOCYTE DIFFERENTIATION, GO MONOCYTE DIFFERENTIATION
GO_APICAL_PROTEIN_LOCALIZATION, GO_APICAL_PROTEIN_LOCALIZATION
 GO REGULATION OF ORGAN GROWTH, GO REGULATION OF ORGAN GROWTH
 GO_ACTOMYOSIN_STRUCTURE_ORGANIZATION, GO_ACTOMYOSIN_STRUCTURE_ORGANIZATION
 GSE19888_CTRL_VS_A3R_ACTIVATION_MAST_CELL_DN, GSE19888_CTRL_VS_A3R_ACTIVATION_MAST_CELL_DN
 PID_S1P_S1P2_PATHWAY, PID_S1P_S1P2_PATHWAY
 REACTOME_ERKS_ARE_INACTIVATED, REACTOME_ERKS_ARE_INACTIVATED
 ST GA12 PATHWAY, ST GA12 PATHWAY
```

Y_VS_EFFECTOR_MEMORY_CD8_TCELL_DN, GSE23321_CD8_STEM_CELL_MEMORY_VS_EFFECTOR_MEMORY_CD8_TCELL_DN