```
GSE40274_CTRL_VS_FOXP3_AND_HELIOS_TRANSDUCED_ACTIVATED_CD4_TCELL_DN, GSE40274_CTRL_VS_FOXP3_AND_HELIOS_TRANSDUCED_ACTIVATED_CD4_TCELL_DN
GSE40273_GATA1_KO_VS_WT_TREG_UP, GSE40273_GATA1_KO_VS_WT_TREG_UP
GSE40273_EOS_KO_VS_WT_TREG_UP, GSE40273_EOS_KO_VS_WT_TREG_UP
GSE3982_BASOPHIL_VS_TH1_DN, GSE3982_BASOPHIL_VS_TH1_DN
GSE23321 CD8 STEM CELL MEMORY VS NAIVE CD8 TCELL UP, GSE23321 CD8 STEM CELL MEMORY VS NAIVE CD8 TCELL UP
GSE17721_LPS_VS_PAM3CSK4_1H_BMDC_UP, GSE17721_LPS_VS_PAM3CSK4_1H_BMDC_UP
GSE39152_BRAIN_VS_SPLEEN_CD103_NEG_MEMORY_CD8_TCELL_DN, GSE39152_BRAIN_VS_SPLEEN_CD103_NEG_MEMORY_CD8_TCELL_DN
GSE22886_NAIVE_BCELL_VS_BM_PLASMA_CELL_DN, GSE22886_NAIVE_BCELL_VS_BM_PLASMA_CELL_DN
TIEN_INTESTINE_PROBIOTICS_6HR_DN, TIEN_INTESTINE_PROBIOTICS_6HR_DN
GSE12845_IGD_NEG_BLOOD_VS_PRE_GC_TONSIL_BCELL_UP, GSE12845_IGD_NEG_BLOOD_VS_PRE_GC_TONSIL_BCELL_UP
GSE19923 E2A KO VS HEB AND E2A KO DP THYMOCYTE UP, GSE19923 E2A KO VS HEB AND E2A KO DP THYMOCYTE UP
GSE7460 CTRL VS FOXP3 OVEREXPR TCONV 1 DN, GSE7460 CTRL VS FOXP3 OVEREXPR TCONV 1 DN
GSE16697_CD4_TCELL_VS_TFH_CD4_TCELL_DN, GSE16697_CD4_TCELL_VS_TFH_CD4_TCELL_DN
GSE5589_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_180MIN_DN, GSE5589_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_180MIN_DN
GSE17721_LPS_VS_GARDIQUIMOD_12H_BMDC_UP, GSE17721_LPS_VS_GARDIQUIMOD_12H_BMDC_UP
GSE40274_CTRL_VS_IRF4_TRANSDUCED_ACTIVATED_CD4_TCELL_UP, GSE40274_CTRL_VS_IRF4_TRANSDUCED_ACTIVATED_CD4_TCELL_UP
HP_MEMORY_IMPAIRMENT, HP_MEMORY_IMPAIRMENT
TIEN_INTESTINE_PROBIOTICS_2HR_DN, TIEN_INTESTINE_PROBIOTICS_2HR_DN
HP PERIPHERAL AXONAL DEGENERATION, HP PERIPHERAL AXONAL DEGENERATION
GSE42088_UNINF_VS_LEISHMANIA_INF_DC_24H_DN, GSE42088_UNINF_VS_LEISHMANIA_INF_DC_24H_DN
 GSE12366_GC_BCELL_VS_PLASMA_CELL_DN, GSE12366_GC_BCELL_VS_PLASMA_CELL_DN
GSE17580_TREG_VS_TEFF_UP, GSE17580_TREG_VS_TEFF_UP
GSE27859_MACROPHAGE_VS_CD11C_INT_F480_INT_DC_UP, GSE27859_MACROPHAGE_VS_CD11C_INT_F480_INT_DC_UP
 YAMAZAKI_TCEB3_TARGETS_UP, YAMAZAKI_TCEB3_TARGETS_UP
 GSE2706_2H_VS_8H_R848_STIM_DC_DN, GSE2706_2H_VS_8H_R848_STIM_DC_DN
 GOBP_POSITIVE_REGULATION_OF_MITOCHONDRION_ORGANIZATION, GOBP_POSITIVE_REGULATION_OF_MITOCHONDRION_ORGANIZATION
 GSE42021_TCONV_PLN_VS_CD24INT_TCONV_THYMUS_DN, GSE42021_TCONV_PLN_VS_CD24INT_TCONV_THYMUS_DN
 SHAFFER_IRF4_TARGETS_IN_PLASMA_CELL_VS_MATURE_B_LYMPHOCYTE, SHAFFER_IRF4_TARGETS_IN_PLASMA_CELL_VS_MATURE_B_LYMPHOCYTE
 MIR583, MIR583
 GSE1460_CD4_THYMOCYTE_VS_THYMIC_STROMAL_CELL_DN, GSE1460_CD4_THYMOCYTE_VS_THYMIC_STROMAL_CELL_DN
 MIR1206, MIR1206
 GOCC_SWI_SNF_SUPERFAMILY_TYPE_COMPLEX, GOCC_SWI_SNF_SUPERFAMILY_TYPE_COMPLEX
 GSE22886_IGA_VS_IGM_MEMORY_BCELL_UP, GSE22886_IGA_VS_IGM_MEMORY_BCELL_UP
 GSE25123_WT_VS_PPARG_KO_MACROPHAGE_IL4_AND_ROSIGLITAZONE_STIM_UP, GSE25123_WT_VS_PPARG_KO_MACROPHAGE_IL4_AND_ROSIGLITAZONE_STIM_UP
 GOBP_DENDRITIC_SPINE_DEVELOPMENT, GOBP_DENDRITIC_SPINE_DEVELOPMENT
 GOBP_LIPOSACCHARIDE_METABOLIC_PROCESS, GOBP_LIPOSACCHARIDE_METABOLIC_PROCESS
 GOBP_REGULATION_OF_DENDRITIC_SPINE_DEVELOPMENT, GOBP_REGULATION_OF_DENDRITIC_SPINE_DEVELOPMENT
 GSE11961_FOLLICULAR_BCELL_VS_MARGINAL_ZONE_BCELL_DN, GSE11961_FOLLICULAR_BCELL_VS_MARGINAL_ZONE_BCELL_DN
 BURTON_ADIPOGENESIS_PEAK_AT_0HR, BURTON_ADIPOGENESIS_PEAK_AT_0HR
 XU_GH1_AUTOCRINE_TARGETS_DN, XU_GH1_AUTOCRINE_TARGETS_DN
 GSE22611_NOD2_VS_MUTANT_NOD2_TRANSDUCED_HEK293T_CELL_DN, GSE22611_NOD2_VS_MUTANT_NOD2_TRANSDUCED_HEK293T_CELL_DN
 AAGTCCA_MIR422B_MIR422A, AAGTCCA_MIR422B_MIR422A
WP GLYCOSYLATION AND RELATED CONGENITAL DEFECTS, WP GLYCOSYLATION AND RELATED CONGENITAL DEFECTS
MIR1256, MIR1256
- HP_DELAYED_CNS_MYELINATION, HP_DELAYED_CNS_MYELINATION
SMIRNOV_RESPONSE_TO_IR_2HR_UP, SMIRNOV_RESPONSE_TO_IR_2HR_UP
 HP IMPAIRED VIBRATORY SENSATION, HP IMPAIRED VIBRATORY SENSATION
 HP_ABNORMAL_AUTONOMIC_NERVOUS_SYSTEM_PHYSIOLOGY, HP_ABNORMAL_AUTONOMIC_NERVOUS_SYSTEM_PHYSIOLOGY
 HP_SPASTIC_GAIT, HP_SPASTIC_GAIT
 SUBTIL_PROGESTIN_TARGETS, SUBTIL_PROGESTIN_TARGETS
 GOMF_AMIDE_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_AMIDE_TRANSMEMBRANE_TRANSPORTER_ACTIVITY
 BOYAULT_LIVER_CANCER_SUBCLASS_G1_DN, BOYAULT_LIVER_CANCER_SUBCLASS_G1_DN
 BILBAN_B_CLL_LPL_UP, BILBAN_B_CLL_LPL_UP
 GOBP_CYTOSOLIC_CALCIUM_ION_TRANSPORT, GOBP_CYTOSOLIC_CALCIUM_ION_TRANSPORT
 MIR7702, MIR7702
 GOBP POSITIVE REGULATION OF RELEASE OF CYTOCHROME C FROM MITOCHONDRIA, GOBP POSITIVE REGULATION OF RELEASE OF CYTOCHROME C FROM MITOCHONDRIA
 GOMF_PROTEIN_SELF_ASSOCIATION, GOMF_PROTEIN_SELF_ASSOCIATION
 GSE33162_HDAC3_KO_VS_HDAC3_KO_4H_LPS_STIM_MACROPHAGE_DN, GSE33162_HDAC3_KO_VS_HDAC3_KO_4H_LPS_STIM_MACROPHAGE_DN
 GOBP_PROTEIN_LOCALIZATION_TO_CELL_SURFACE, GOBP_PROTEIN_LOCALIZATION_TO_CELL_SURFACE
 ZHAN_MULTIPLE_MYELOMA_CD2_DN, ZHAN_MULTIPLE_MYELOMA_CD2_DN
 MIR4732_3P, MIR4732_3P
 MIR4776_5P, MIR4776_5P
 GOBP_TAIL_ANCHORED_MEMBRANE_PROTEIN_INSERTION_INTO_ER_MEMBRANE, GOBP_TAIL_ANCHORED_MEMBRANE_PROTEIN_INSERTION_INTO_ER_MEMBRANE
 GOBP_REGULATION_OF_SYNAPTIC_VESICLE_EXOCYTOSIS, GOBP_REGULATION_OF_SYNAPTIC_VESICLE_EXOCYTOSIS
 MCCLUNG_COCAIN_REWARD_4WK, MCCLUNG_COCAIN_REWARD_4WK
 MIR4688, MIR4688
 MIR876_3P, MIR876_3P
GNF2_ANK1, GNF2_ANK1
GNF2_SPTB, GNF2_SPTB
PID_LIS1_PATHWAY, PID_LIS1_PATHWAY
GOBP_REGULATION_OF_DENDRITIC_SPINE_MORPHOGENESIS, GOBP_REGULATION_OF_DENDRITIC_SPINE_MORPHOGENESIS
 VARELA_ZMPSTE24_TARGETS_UP, VARELA_ZMPSTE24_TARGETS_UP
HP_HYPERORALITY, HP_HYPERORALITY
MIR219B_5P, MIR219B_5P
MIR3122, MIR3122
GOBP_DENDRITIC_SPINE_MORPHOGENESIS, GOBP_DENDRITIC_SPINE_MORPHOGENESIS
GOMF_METALLOAMINOPEPTIDASE_ACTIVITY, GOMF_METALLOAMINOPEPTIDASE_ACTIVITY
BIOCARTA_LIS1_PATHWAY, BIOCARTA_LIS1_PATHWAY
MIR1911_3P, MIR1911_3P
HP_EMG_IMPAIRED_NEUROMUSCULAR_TRANSMISSION, HP_EMG_IMPAIRED_NEUROMUSCULAR_TRANSMISSION
GOBP_EPITHELIAL_CELL_MORPHOGENESIS, GOBP_EPITHELIAL_CELL_MORPHOGENESIS
YANAGIHARA_ESX1_TARGETS, YANAGIHARA_ESX1_TARGETS
MCDOWELL_ACUTE_LUNG_INJURY_DN, MCDOWELL_ACUTE_LUNG_INJURY_DN
GOBP_POSITIVE_REGULATION_OF_NEUROTRANSMITTER_TRANSPORT, GOBP_POSITIVE_REGULATION_OF_NEUROTRANSMITTER_TRANSPORT
HP_EMG_DECREMENTAL_RESPONSE_OF_COMPOUND_MUSCLE_ACTION_POTENTIAL_TO_REPETITIVE_NERVE_STIMULATION, HP_EMG_DECREMENTAL_RESPONSE_OF_COMPOUND_MUSCLE_ACTION_POTENTIAL_TO
GOBP_RESPONSE_TO_MINERALOCORTICOID, GOBP_RESPONSE_TO_MINERALOCORTICOID
GOBP_NEGATIVE_REGULATION_OF_TRANSPORTER_ACTIVITY, GOBP_NEGATIVE_REGULATION_OF_TRANSPORTER_ACTIVITY
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GOBP\_NEGATIVE\_REGULATION\_OF\_CATION\_TRANSMEMBRANE\_TRANSPORT, GOBP\_NEGATIVE\_REGULATION\_OF\_CATION\_TRANSMEMBRANE\_TRANSPORT

GOBP\_POSITIVE\_REGULATION\_OF\_NEUROTRANSMITTER\_SECRETION, GOBP\_POSITIVE\_REGULATION\_OF\_NEUROTRANSMITTER\_SECRETION

KEGG\_GLYCOSPHINGOLIPID\_BIOSYNTHESIS\_GANGLIO\_SERIES, KEGG\_GLYCOSPHINGOLIPID\_BIOSYNTHESIS\_GANGLIO\_SERIES

HP\_TORSADE\_DE\_POINTES, HP\_TORSADE\_DE\_POINTES

GSE16451\_IMMATURE\_VS\_MATURE\_NEURON\_CELL\_LINE\_WEST\_EQUINE\_ENC\_VIRUS\_DN, GSE16451\_IMMATURE\_VS\_MATURE\_NEURON\_CELL\_LINE\_WEST\_EQUINE\_ENC\_VIRUS\_DN

GSE10325\_BCELL\_VS\_LUPUS\_BCELL\_DN, GSE10325\_BCELL\_VS\_LUPUS\_BCELL\_DN

ELL VS BLOOD PLASMA CELL DN, GSE22886 IGM MEMORY BCELL VS BLOOD PLASMA CELL DN