```
GSE21927_SPLEEN_C57BL6_VS_EL4_TUMOR_BALBC_MONOCYTES_UP, GSE21927_SPLEEN_C57BL6_VS_EL4_TUMOR_BALBC_MONOCYTES_UP
GSE9006_TYPE_1_VS_TYPE_2_DIABETES_PBMC_AT_DX_DN, GSE9006_TYPE_1_VS_TYPE_2_DIABETES_PBMC_AT_DX_DN
GSE26559_TCF1_KO_VS_WT_LIN_NEG_CELL_UP, GSE26559_TCF1_KO_VS_WT_LIN_NEG_CELL_UP
GSE20500_RETINOIC_ACID_VS_RARA_ANTAGONIST_TREATED_CD4_TCELL_DN, GSE20500_RETINOIC_ACID_VS_RARA_ANTAGONIST_TREATED_CD4_TCELL_DN
GSE14308_TH1_VS_INDUCED_TREG_UP, GSE14308_TH1_VS_INDUCED_TREG_UP
GSE22886_NAIVE_CD4_TCELL_VS_12H_ACT_TH2_UP, GSE22886_NAIVE_CD4_TCELL_VS_12H_ACT_TH2_UP
GSE29618_MONOCYTE_VS_PDC_DN, GSE29618_MONOCYTE_VS_PDC_DN
GSE29618_BCELL_VS_PDC_DAY7_FLU_VACCINE_DN, GSE29618_BCELL_VS_PDC_DAY7_FLU_VACCINE_DN
GSE43863_TFH_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_UP, GSE43863_TFH_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_UP
GSE29618_BCELL_VS_PDC_DN, GSE29618_BCELL_VS_PDC_DN
DAZARD_UV_RESPONSE_CLUSTER_G6, DAZARD_UV_RESPONSE_CLUSTER_G6
GSE11961_MARGINAL_ZONE_BCELL_VS_GERMINAL_CENTER_BCELL_DAY7_DN, GSE11961_MARGINAL_ZONE_BCELL_VS_GERMINAL_CENTER_BCELL_DAY7_DN
GSE17974_0H_VS_48H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_48H_IN_VITRO_ACT_CD4_TCELL_UP
GSE16385_ROSIGLITAZONE_IL4_VS_IL4_ALONE_STIM_MACROPHAGE_12H_UP, GSE16385_ROSIGLITAZONE_IL4_VS_IL4_ALONE_STIM_MACROPHAGE_12H_UP
GSE29618_PDC_VS_MDC_UP, GSE29618_PDC_VS_MDC_UP
GSE3982_BASOPHIL_VS_TH1_UP, GSE3982_BASOPHIL_VS_TH1_UP
GSE42021_TCONV_PLN_VS_TREG_PRECURSORS_THYMUS_UP, GSE42021_TCONV_PLN_VS_TREG_PRECURSORS_THYMUS_UP
GSE17974_0H_VS_4H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_4H_IN_VITRO_ACT_CD4_TCELL_UP
REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME_PROTEINS_AND_COMPLEXES, REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME_PROTEINS_AND_COMPLEXES
GSE9006 HEALTHY VS TYPE 2 DIABETES PBMC AT DX DN, GSE9006 HEALTHY VS TYPE 2 DIABETES PBMC AT DX DN
RUIZ_TNC_TARGETS_UP, RUIZ_TNC_TARGETS_UP
GO_NEGATIVE_REGULATION_OF_CELL_PROJECTION_ORGANIZATION, GO_NEGATIVE_REGULATION_OF_CELL_PROJECTION_ORGANIZATION
GSE29618_PDC_VS_MDC_DAY7_FLU_VACCINE_UP, GSE29618_PDC_VS_MDC_DAY7_FLU_VACCINE_UP
GSE11864_CSF1_VS_CSF1_IFNG_IN_MAC_UP, GSE11864_CSF1_VS_CSF1_IFNG_IN_MAC_UP
GSE3982_CENT_MEMORY_CD4_TCELL_VS_NKCELL_DN, GSE3982_CENT_MEMORY_CD4_TCELL_VS_NKCELL_DN
GO MICROTUBULE ORGANIZING CENTER PART, GO MICROTUBULE ORGANIZING CENTER PART
BENPORATH_NOS_TARGETS, BENPORATH_NOS_TARGETS
GCM_IL6ST, GCM_IL6ST
GSE11864_CSF1_PAM3CYS_VS_CSF1_IFNG_PAM3CYS_IN_MAC_DN, GSE11864_CSF1_PAM3CYS_VS_CSF1_IFNG_PAM3CYS_IN_MAC_DN
GSE2706_2H_VS_8H_R848_STIM_DC_DN, GSE2706_2H_VS_8H_R848_STIM_DC_DN
REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AGGREGATION, REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AGGREGATION
GO_PHAGOCYTOSIS, GO_PHAGOCYTOSIS
GSE43863_DAY6_EFF_VS_DAY150_MEM_TH1_CD4_TCELL_DN, GSE43863_DAY6_EFF_VS_DAY150_MEM_TH1_CD4_TCELL_DN
PID_VEGFR1_2_PATHWAY, PID_VEGFR1_2_PATHWAY
GSE17721_POLYIC_VS_PAM3CSK4_1H_BMDC_DN, GSE17721_POLYIC_VS_PAM3CSK4_1H_BMDC_DN
GO_NEGATIVE_REGULATION_OF_NEURON_DIFFERENTIATION, GO_NEGATIVE_REGULATION_OF_NEURON_DIFFERENTIATION
GSE14350_IL2RB_KO_VS_WT_TEFF_DN, GSE14350_IL2RB_KO_VS_WT_TEFF_DN
HUMMERICH_SKIN_CANCER_PROGRESSION_UP, HUMMERICH_SKIN_CANCER_PROGRESSION_UP
GSE17721_PAM3CSK4_VS_CPG_12H_BMDC_DN, GSE17721_PAM3CSK4_VS_CPG_12H_BMDC_DN
GSE27786_LSK_VS_MONO_MAC_DN, GSE27786_LSK_VS_MONO_MAC_DN
BIOCARTA_HIVNEF_PATHWAY, BIOCARTA_HIVNEF_PATHWAY
GSE6269_STAPH_AUREUS_VS_STREP_PNEUMO_INF_PBMC_DN, GSE6269_STAPH_AUREUS_VS_STREP_PNEUMO_INF_PBMC_DN
GSE21927_UNTREATED_VS_GMCSF_IL6_TREATED_BONE_MARROW_DN, GSE21927_UNTREATED_VS_GMCSF_IL6_TREATED_BONE_MARROW_DN
PID CERAMIDE PATHWAY, PID CERAMIDE PATHWAY
GO_NEGATIVE_REGULATION_OF_CELL_GROWTH, GO_NEGATIVE_REGULATION_OF_CELL_GROWTH
REACTOME PLATELET HOMEOSTASIS, REACTOME PLATELET HOMEOSTASIS
GSE3982_NEUTROPHIL_VS_TH2_UP, GSE3982_NEUTROPHIL_VS_TH2_UP
CSR_LATE_UP.V1_DN, CSR_LATE_UP.V1_DN
PID_IFNG_PATHWAY, PID_IFNG_PATHWAY
PID_AMB2_NEUTROPHILS_PATHWAY, PID_AMB2_NEUTROPHILS_PATHWAY
GO_PROTEIN_DESTABILIZATION, GO_PROTEIN_DESTABILIZATION
SIRNA EIF4GI DN, SIRNA EIF4GI DN
GSE3994_WT_VS_PAC1_KO_ACTIVATED_MAST_CELL_DN, GSE3994_WT_VS_PAC1_KO_ACTIVATED_MAST_CELL_DN
GO_REGULATION_OF_LAMELLIPODIUM_ORGANIZATION, GO_REGULATION_OF_LAMELLIPODIUM_ORGANIZATION
GNF2_ITGAL, GNF2_ITGAL
BIOCARTA_PAR1_PATHWAY, BIOCARTA_PAR1_PATHWAY
GSE30971_WBP7_HET_VS_KO_MACROPHAGE_2H_LPS_STIM_DN, GSE30971_WBP7_HET_VS_KO_MACROPHAGE_2H_LPS_STIM_DN
DACOSTA UV_RESPONSE_VIA_ERCC3_XPCS_DN, DACOSTA_UV_RESPONSE_VIA_ERCC3_XPCS_DN
GSE30971_WBP7_HET_VS_KO_MACROPHAGE_DN, GSE30971_WBP7_HET_VS_KO_MACROPHAGE_DN
GSE5542_IFNG_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_24H_DN, GSE5542_IFNG_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_24H_DN
GSE3982_EOSINOPHIL_VS_MAST_CELL_UP, GSE3982_EOSINOPHIL_VS_MAST_CELL_UP
BECKER_TAMOXIFEN_RESISTANCE_UP, BECKER_TAMOXIFEN_RESISTANCE_UP
BIOCARTA_RACCYCD_PATHWAY, BIOCARTA_RACCYCD_PATHWAY
ST_P38_MAPK_PATHWAY, ST_P38_MAPK_PATHWAY
GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID_UP, GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID_UP
GNF2_MAP2K3, GNF2_MAP2K3
NIKOLSKY_MUTATED_AND_AMPLIFIED_IN_BREAST_CANCER, NIKOLSKY_MUTATED_AND_AMPLIFIED_IN_BREAST_CANCER
CHEN_PDGF_TARGETS, CHEN_PDGF_TARGETS
REACTOME_CHOLESTEROL_BIOSYNTHESIS, REACTOME_CHOLESTEROL_BIOSYNTHESIS
PID_PTP1B_PATHWAY, PID_PTP1B_PATHWAY
GO_POSITIVE_REGULATION_OF_PROTEIN_IMPORT, GO_POSITIVE_REGULATION_OF_PROTEIN_IMPORT
ACTACCT_MIR196A_MIR196B, ACTACCT_MIR196A_MIR196B
GENTILE_UV_RESPONSE_CLUSTER_D7, GENTILE_UV_RESPONSE_CLUSTER_D7
CCCACAT_MIR2993P, CCCACAT_MIR2993P
PID_FAK_PATHWAY, PID_FAK_PATHWAY
KEGG_INOSITOL_PHOSPHATE_METABOLISM, KEGG_INOSITOL_PHOSPHATE_METABOLISM
GO_SINGLE_ORGANISM_MEMBRANE_FUSION, GO_SINGLE_ORGANISM_MEMBRANE_FUSION
REACTOME_PI3K_AKT_ACTIVATION, REACTOME_PI3K_AKT_ACTIVATION
PID_ANGIOPOIETIN_RECEPTOR_PATHWAY, PID_ANGIOPOIETIN_RECEPTOR_PATHWAY
SMITH_TERT_TARGETS_DN, SMITH_TERT_TARGETS_DN
GO_ENDOTHELIAL_CELL_MIGRATION, GO_ENDOTHELIAL_CELL_MIGRATION
GNF2_CASP8, GNF2_CASP8
NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_UP, NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_UP
GO_POSITIVE_REGULATION_OF_PROTEIN_MATURATION, GO_POSITIVE_REGULATION_OF_PROTEIN_MATURATION
GO S ACYLTRANSFERASE ACTIVITY, GO S ACYLTRANSFERASE ACTIVITY
GO_NEGATIVE_REGULATION_OF_RESPONSE_TO_ENDOPLASMIC_RETICULUM_STRESS, GO_NEGATIVE_REGULATION_OF_RESPONSE_TO_ENDOPLASMIC_RETICULUM_STRESS
SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_UP, SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_UP
LUI THYROID CANCER CLUSTER 2, LUI THYROID CANCER CLUSTER 2
PID_S1P_S1P2_PATHWAY, PID_S1P_S1P2_PATHWAY
GO_NEGATIVE_REGULATION_OF_ERK1_AND_ERK2_CASCADE, GO_NEGATIVE_REGULATION_OF_ERK1_AND_ERK2_CASCADE
PID_P75_NTR_PATHWAY, PID_P75_NTR_PATHWAY
GTCNYYATGR_UNKNOWN, GTCNYYATGR_UNKNOWN
GO_TISSUE_MIGRATION, GO_TISSUE_MIGRATION
PID_ECADHERIN_KERATINOCYTE_PATHWAY, PID_ECADHERIN_KERATINOCYTE_PATHWAY
BAELDE_DIABETIC_NEPHROPATHY_UP, BAELDE_DIABETIC_NEPHROPATHY_UP
GSE3691_IFN_PRODUCING_KILLER_DC_VS_CONVENTIONAL_DC_SPLEEN_DN, GSE3691_IFN_PRODUCING_KILLER_DC_VS_CONVENTIONAL_DC_SPLEEN_DN
GO_REGULATION_OF_ESTABLISHMENT_OR_MAINTENANCE_OF_CELL_POLARITY, GO_REGULATION_OF_ESTABLISHMENT_OR_MAINTENANCE_OF_CELL_POLARITY
WEIGEL_OXIDATIVE_STRESS_RESPONSE, WEIGEL_OXIDATIVE_STRESS_RESPONSE
GO_NEGATIVE_REGULATION_OF_ALCOHOL_BIOSYNTHETIC_PROCESS, GO_NEGATIVE_REGULATION_OF_ALCOHOL_BIOSYNTHETIC_PROCESS
GEORGANTAS_HSC_MARKERS, GEORGANTAS_HSC_MARKERS
GO_MICROTUBULE_POLYMERIZATION_OR_DEPOLYMERIZATION, GO_MICROTUBULE_POLYMERIZATION_OR_DEPOLYMERIZATION
REACTOME_PERK_REGULATED_GENE_EXPRESSION, REACTOME_PERK_REGULATED_GENE_EXPRESSION
GO_POSITIVE_REGULATION_OF_DEPHOSPHORYLATION, GO_POSITIVE_REGULATION_OF_DEPHOSPHORYLATION
LANDEMAINE_LUNG_METASTASIS, LANDEMAINE_LUNG_METASTASIS
PID_ERBB1_RECEPTOR_PROXIMAL_PATHWAY, PID_ERBB1_RECEPTOR_PROXIMAL_PATHWAY
HORTON_SREBF_TARGETS, HORTON_SREBF_TARGETS
MODULE_432, MODULE_432
GO POSITIVE REGULATION OF MITOTIC SISTER CHROMATID SEPARATION, GO POSITIVE REGULATION OF MITOTIC SISTER CHROMATID SEPARATION
GO_CELLULAR_RESPONSE_TO_DSRNA, GO_CELLULAR_RESPONSE_TO_DSRNA
PID_ECADHERIN_STABILIZATION_PATHWAY, PID_ECADHERIN_STABILIZATION_PATHWAY
JI_RESPONSE_TO_FSH_UP, JI_RESPONSE_TO_FSH_UP
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2_POS_VS_NEG_PDC_DN, GSE15215_CD2_POS_VS_NEG_PDC_DN

LINDSTEDT_DENDRITIC_CELL_MATURATION_C, LINDSTEDT_DENDRITIC_CELL_MATURATION_C GNF2_JAK1, GNF2_JAK1

TTCCGTT_MIR191, TTCCGTT_MIR191 MANTOVANI_VIRAL_GPCR_SIGNALING_DN, MANTOVANI_VIRAL_GPCR_SIGNALING_DN

PID_SYNDECAN_4_PATHWAY, PID_SYNDECAN_4_PATHWAY GO_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_RESPONSE_TO_DNA_DAMAGE_BY_P53_CLASS_MEDIATOR, GO_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_RESPONSE_TO_DNA_DAMAGE_BY_P53_CL

GNF2_SNRK, GNF2_SNRK

GO_OSTEOCLAST_DIFFERENTIATION, GO_OSTEOCLAST_DIFFERENTIATION GO_PROTEIN_COMPLEX_SCAFFOLD, GO_PROTEIN_COMPLEX_SCAFFOLD

GO_MEMBRANE_PROTEIN_INTRACELLULAR_DOMAIN_PROTEOLYSIS, GO_MEMBRANE_PROTEIN_INTRACELLULAR_DOMAIN_PROTEOLYSIS GO_POSITIVE_REGULATION_OF_MITOTIC_NUCLEAR_DIVISION, GO_POSITIVE_REGULATION_OF_MITOTIC_NUCLEAR_DIVISION

PID_NECTIN_PATHWAY, PID_NECTIN_PATHWAY REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS, REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS

GO_RESPONSE_TO_TRANSITION_METAL_NANOPARTICLE, GO_RESPONSE_TO_TRANSITION_METAL_NANOPARTICLE

GO_REGULATION_OF_ENDOPLASMIC_RETICULUM_STRESS_INDUCED_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY, GO_REGULATION_OF_ENDOPLASMIC_RETICULUM_STRESS_INDUCED_INTRINSIC_APOPTOTIC GO_REGULATION_OF_PROTEIN_HOMODIMERIZATION_ACTIVITY, GO_REGULATION_OF_PROTEIN_HOMODIMERIZATION_ACTIVITY

BIOCARTA_NTHI_PATHWAY, BIOCARTA_NTHI_PATHWAY

SA_PTEN_PATHWAY, SA_PTEN_PATHWAY GSE3982_DC_VS_NKCELL_DN, GSE3982_DC_VS_NKCELL_DN

PID_NETRIN_PATHWAY, PID_NETRIN_PATHWAY GO_CENTRIOLAR_SATELLITE, GO_CENTRIOLAR_SATELLITE

WEST_ADRENOCORTICAL_CARCINOMA_VS_ADENOMA_DN, WEST_ADRENOCORTICAL_CARCINOMA_VS_ADENOMA_DN

GNF2_CDC27, GNF2_CDC27

GO_ENERGY_HOMEOSTASIS, GO_ENERGY_HOMEOSTASIS PID_TRKR_PATHWAY, PID_TRKR_PATHWAY

GO_NAD_ADP_RIBOSYLTRANSFERASE_ACTIVITY, GO_NAD_ADP_RIBOSYLTRANSFERASE_ACTIVITY GO_REGULATION_OF_INTERFERON_ALPHA_PRODUCTION, GO_REGULATION_OF_INTERFERON_ALPHA_PRODUCTION

BIOCARTA_TALL1_PATHWAY, BIOCARTA_TALL1_PATHWAY

BIOCARTA_TFF_PATHWAY, BIOCARTA_TFF_PATHWAY

GO_POLYOL_BIOSYNTHETIC_PROCESS, GO_POLYOL_BIOSYNTHETIC_PROCESS PID_TXA2PATHWAY, PID_TXA2PATHWAY

GO_ORGANIC_HYDROXY_COMPOUND_BIOSYNTHETIC_PROCESS, GO_ORGANIC_HYDROXY_COMPOUND_BIOSYNTHETIC_PROCESS STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_UP, STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_UP

GO_LAMELLIPODIUM_ASSEMBLY, GO_LAMELLIPODIUM_ASSEMBLY GO_AMYLOID_PRECURSOR_PROTEIN_METABOLIC_PROCESS, GO_AMYLOID_PRECURSOR_PROTEIN_METABOLIC_PROCESS

GO_PROTEIN_PALMITOYLATION, GO_PROTEIN_PALMITOYLATION GSE13485_CTRL_VS_DAY3_YF17D_VACCINE_PBMC_UP, GSE13485_CTRL_VS_DAY3_YF17D_VACCINE_PBMC_UP

GO_PODOSOME, GO_PODOSOME GO_NEURON_DEATH, GO_NEURON_DEATH

PID_NEPHRIN_NEPH1_PATHWAY, PID_NEPHRIN_NEPH1_PATHWAY GO_UBIQUINONE_METABOLIC_PROCESS, GO_UBIQUINONE_METABOLIC_PROCESS

REACTOME_DESTABILIZATION_OF_MRNA_BY_KSRP, REACTOME_DESTABILIZATION_OF_MRNA_BY_KSRP

PID_LYMPH_ANGIOGENESIS_PATHWAY, PID_LYMPH_ANGIOGENESIS_PATHWAY

WOOD_EBV_EBNA1_TARGETS_DN, WOOD_EBV_EBNA1_TARGETS_DN