```
GSE19888_ADENOSINE_A3R_INH_PRETREAT_AND_ACT_BY_A3R_VS_A3R_INH_AND_TCELL_MEMBRANES_ACT_MAST_CELL_UP, GSE19888_ADENOSINE_A3R_INH_PRETREAT_AND_ACT_BY_A3R_VS_A3R_INH_AN
                                                                                                                                                                      GSE37416_0H_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_UP, GSE37416_0H_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_UP
                                                                                                                                                                     GSE37416_0H_VS_12H_F_TULARENSIS_LVS_NEUTROPHIL_UP, GSE37416_0H_VS_12H_F_TULARENSIS_LVS_NEUTROPHIL_UP
                                                                                                                                                                     GSE25088_IL4_VS_IL4_AND_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_DAY10_UP, GSE25088_IL4_VS_IL4_AND_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_DAY10_UP
                                                                                                                                                                     GSE369_SOCS3_KO_VS_WT_LIVER_DN, GSE369_SOCS3_KO_VS_WT_LIVER_DN
                                                                                                                                                                     GSE37416_12H_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_UP, GSE37416_12H_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_UP
                                                                                                                                                                     GSE19401_NAIVE_VS_IMMUNIZED_MOUSE_PLN_FOLLICULAR_DC_DN, GSE19401_NAIVE_VS_IMMUNIZED_MOUSE_PLN_FOLLICULAR_DC_DN
                                                                                                                                                                     GSE4984_LPS_VS_VEHICLE_CTRL_TREATED_DC_DN, GSE4984_LPS_VS_VEHICLE_CTRL_TREATED_DC_DN
                                                                                                                                                                     GSE32255_WT_UNSTIM_VS_JMJD2D_KNOCKDOWN_4H_LPS_STIM_DC_UP, GSE32255_WT_UNSTIM_VS_JMJD2D_KNOCKDOWN_4H_LPS_STIM_DC_UP
                                                                                                                                                                     GSE21360_TERTIARY_VS_QUATERNARY_MEMORY_CD8_TCELL_UP, GSE21360_TERTIARY_VS_QUATERNARY_MEMORY_CD8_TCELL_UP
                                                                                                                                                                     GSE22611_NOD2_VS_CTRL_TRANSDUCED_HEK293T_CELL_DN, GSE22611_NOD2_VS_CTRL_TRANSDUCED_HEK293T_CELL_DN
                                                                                                                                                                     GSE8921_UNSTIM_0H_VS_TLR1_2_STIM_MONOCYTE_24H_DN, GSE8921_UNSTIM_0H_VS_TLR1_2_STIM_MONOCYTE_24H_DN
                                                                                                                                                                     GSE30971_WBP7_HET_VS_KO_MACROPHAGE_2H_LPS_STIM_DN, GSE30971_WBP7_HET_VS_KO_MACROPHAGE_2H_LPS_STIM_DN
                                                                                                                                                                     GSE4748 CTRL VS CYANOBACTERIUM LPSLIKE STIM DC 3H UP, GSE4748 CTRL VS CYANOBACTERIUM LPSLIKE STIM DC 3H UP
                                                                                                                                                                     GSE30971_WBP7_HET_VS_KO_MACROPHAGE_DN, GSE30971_WBP7_HET_VS_KO_MACROPHAGE_DN
                                                                                                                                                                     GSE39556_CD8A_DC_VS_NK_CELL_DN, GSE39556_CD8A_DC_VS_NK_CELL_DN
                                                                                                                                                                     GSE6674_ANTI_IGM_VS_ANTI_IGM_AND_CPG_STIM_BCELL_UP, GSE6674_ANTI_IGM_VS_ANTI_IGM_AND_CPG_STIM_BCELL_UP
                                                                                                                                                                     GSE27786_LIN_NEG_VS_NEUTROPHIL_DN, GSE27786_LIN_NEG_VS_NEUTROPHIL_DN
                                                                                                                                                                     GSE3691_CONVENTIONAL_VS_PLASMACYTOID_DC_SPLEEN_UP, GSE3691_CONVENTIONAL_VS_PLASMACYTOID_DC_SPLEEN_UP
                                                                                                                                                                     GSE16385 IFNG TNF VS IL4 STIM MACROPHAGE UP, GSE16385 IFNG TNF VS IL4 STIM MACROPHAGE UP
                                                                                                                                                                     GSE7852_TREG_VS_TCONV_DN, GSE7852_TREG_VS_TCONV_DN
                                                                                                                                                                    GSE11961_FOLLICULAR_BCELL_VS_GERMINAL_CENTER_BCELL_DAY40_UP, GSE11961_FOLLICULAR_BCELL_VS_GERMINAL_CENTER_BCELL_DAY40_UP
                                                                                                                                                                    GSE21670_UNTREATED_VS_TGFB_TREATED_CD4_TCELL_DN, GSE21670_UNTREATED_VS_TGFB_TREATED_CD4_TCELL_DN
                                                                                                                                                                     GCAAAAA_MIR129, GCAAAAA_MIR129
                                                                                                                                                                    GSE21380 NON TFH VS TFH CD4 TCELL UP, GSE21380 NON TFH VS TFH CD4 TCELL UP
                                                                                                                                                                     GSE18281_CORTEX_VS_MEDULLA_THYMUS_DN, GSE18281_CORTEX_VS_MEDULLA_THYMUS_DN
                                                                                                                                                                     GSE14699_NAIVE_VS_DELETIONAL_TOLERANCE_CD8_TCELL_DN, GSE14699_NAIVE_VS_DELETIONAL_TOLERANCE_CD8_TCELL_DN
                                                                                                                                                                     MIR34B_3P, MIR34B_3P
                                                                                                                                                                     GSE22611_UNSTIM_VS_6H_MDP_STIM_MUTANT_NOD2_TRANSDUCED_HEK293T_CELL_DN, GSE22611_UNSTIM_VS_6H_MDP_STIM_MUTANT_NOD2_TRANSDUCED_HEK293T_CELL_DN
                                                                                                                                                                     MIR4782_3P, MIR4782_3P
                                                                                                                                                                     MIR6766_3P, MIR6766_3P
                                                                                                                                                                     GSE3982_DC_VS_NEUTROPHIL_DN, GSE3982_DC_VS_NEUTROPHIL_DN
                                                                                                                                                                     IKEDA_MIR30_TARGETS_UP, IKEDA_MIR30_TARGETS_UP
                                                                                                                                                                     MIR219A_5P, MIR219A_5P
                                                                                                                                                                     GSE46606_UNSTIM_VS_CD40L_IL2_IL5_DAY3_STIMULATED_BCELL_UP, GSE46606_UNSTIM_VS_CD40L_IL2_IL5_DAY3_STIMULATED_BCELL_UP
                                                                                                                                                                    GSE29164_DAY3_VS_DAY7_UNTREATED_MELANOMA_UP, GSE29164_DAY3_VS_DAY7_UNTREATED_MELANOMA_UP
                                                                                                                                                                    MIR6882_5P, MIR6882_5P
                                                                                                                                                                     MENON_FETAL_KIDNEY_9_ENDOTHELIAL_CELLS, MENON_FETAL_KIDNEY_9_ENDOTHELIAL_CELLS
                                                                                                                                                                     GSE3982_EOSINOPHIL_VS_DC_UP, GSE3982_EOSINOPHIL_VS_DC_UP
                                                                                                                                                                     GOMF_PHOSPHATASE_BINDING, GOMF_PHOSPHATASE_BINDING
                                                                                                                                                                    GSE10240 CTRL VS IL17 STIM PRIMARY BRONCHIAL EPITHELIAL CELLS DN, GSE10240 CTRL VS IL17 STIM PRIMARY BRONCHIAL EPITHELIAL CELLS DN
                                                                                                                                                                     GSE40277_GATA1_AND_SATB1_TRANSDUCED_VS_CTRL_CD4_TCELL_DN, GSE40277_GATA1_AND_SATB1_TRANSDUCED_VS_CTRL_CD4_TCELL_DN
                                                                                                                                                                     GOBP_AUTOPHAGOSOME_ORGANIZATION, GOBP_AUTOPHAGOSOME_ORGANIZATION
                                                                                                                                                                     GSE40274_CTRL_VS_FOXP3_AND_EOS_TRANSDUCED_ACTIVATED_CD4_TCELL_UP, GSE40274_CTRL_VS_FOXP3_AND_EOS_TRANSDUCED_ACTIVATED_CD4_TCELL_UP
                                                                                                                                                                     GSE20152_HTNFA_OVERXPRESS_ANKLE_VS_CTRL_SPHK1_KO_ANKLE_DN, GSE20152_HTNFA_OVERXPRESS_ANKLE_VS_CTRL_SPHK1_KO_ANKLE_DN
                                                                                                                                                                    GSE15271_CXCR4_POS_VS_NEG_GC_BCELL_DN, GSE15271_CXCR4_POS_VS_NEG_GC_BCELL_DN
                                                                                                                                                                     MIR3679_3P, MIR3679_3P
                                                                                                                                                                     GSE25088_CTRL_VS_IL4_STIM_MACROPHAGE_DN, GSE25088_CTRL_VS_IL4_STIM_MACROPHAGE_DN
                                                                                                                                                                     REACTOME_RHO_GTPASES_ACTIVATE_PKNS, REACTOME_RHO_GTPASES_ACTIVATE_PKNS
                                                                                                                                                                     KEGG_NEUROTROPHIN_SIGNALING_PATHWAY, KEGG_NEUROTROPHIN_SIGNALING_PATHWAY
                                                                                                                                                                     MIR4744, MIR4744
                                                                                                                                                                     MIR190A_5P, MIR190A_5P
                                                                                                                                                                     BIOCARTA_MAPK_PATHWAY, BIOCARTA_MAPK_PATHWAY
                                                                                                                                                                     HOLLERN_EMT_BREAST_TUMOR_UP, HOLLERN_EMT_BREAST_TUMOR_UP
                                                                                                                                                                     KEGG_FOCAL_ADHESION, KEGG_FOCAL_ADHESION
                                                                                                                                                                     MIR190B_5P, MIR190B_5P
                                                                                                                                                                     GSE17721_PAM3CSK4_VS_GADIQUIMOD_0.5H_BMDC_DN, GSE17721_PAM3CSK4_VS_GADIQUIMOD_0.5H_BMDC_DN
                                                                                                                                                                     GSE6259_BCELL_VS_CD8_TCELL_UP, GSE6259_BCELL_VS_CD8_TCELL_UP
                                                                                                                                                                     GSE16450_IMMATURE_VS_MATURE_NEURON_CELL_LINE_6H_IFNA_STIM_UP, GSE16450_IMMATURE_VS_MATURE_NEURON_CELL_LINE_6H_IFNA_STIM_UP
                                                                                                                                                                    GOBP_MEGAKARYOCYTE_DIFFERENTIATION, GOBP_MEGAKARYOCYTE_DIFFERENTIATION
                                                                                                                                                                     GSE3920_IFNA_VS_IFNB_TREATED_ENDOTHELIAL_CELL_UP, GSE3920_IFNA_VS_IFNB_TREATED_ENDOTHELIAL_CELL_UP
                                                                                                                                                                     KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS, KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS
                                                                                                                                                                     MIR5580_5P, MIR5580_5P
                                                                                                                                                                     GOMF_PROTEIN_PHOSPHATASE_BINDING, GOMF_PROTEIN_PHOSPHATASE_BINDING
                                                                                                                                                                     WP_REGULATION_OF_ACTIN_CYTOSKELETON, WP_REGULATION_OF_ACTIN_CYTOSKELETON
                                                                                                                                                                     GOCC_CYTOPLASMIC_SIDE_OF_MEMBRANE, GOCC_CYTOPLASMIC_SIDE_OF_MEMBRANE
                                                                                                                                                                     MIR1343_3P, MIR1343_3P
                                                                                                                                                                     MULLIGHAN_NPM1_MUTATED_SIGNATURE_2_UP, MULLIGHAN_NPM1_MUTATED_SIGNATURE_2_UP
                                                                                                                                                                     GOBP_JNK_CASCADE, GOBP_JNK_CASCADE
                                                                                                                                                                     GSE22886_NEUTROPHIL_VS_MONOCYTE_UP, GSE22886_NEUTROPHIL_VS_MONOCYTE_UP
                                                                                                                                                                     KEGG_COLORECTAL_CANCER, KEGG_COLORECTAL_CANCER
                                                                                                                                                                     MIR4680_5P, MIR4680_5P
                                                                                                                                                                     MIR6836_5P, MIR6836_5P
                                                                                                                                                                     HP_ABNORMAL_DISTAL_PHALANX_MORPHOLOGY_OF_FINGER, HP_ABNORMAL_DISTAL_PHALANX_MORPHOLOGY_OF_FINGER
                                                                                                                                                                     AMIT_EGF_RESPONSE_120_HELA, AMIT_EGF_RESPONSE_120_HELA
                                                                                                                                                                     MIR378A_5P, MIR378A_5P
                                                                                                                                                                     GGTGTGT_MIR329, GGTGTGT_MIR329
                                                                                                                                                                     MIR6132, MIR6132
                                                                                                                                                                     MIR4308. MIR4308
                                                                                                                                                                     KEGG_ACUTE_MYELOID_LEUKEMIA, KEGG_ACUTE_MYELOID_LEUKEMIA
                                                                                                                                                                     MIR329_3P, MIR329_3P
                                                                                                                                                                     MIR532 5P, MIR532 5P
                                                                                                                                                                     MIR362_3P, MIR362_3P
                                                                                                                                                                     MIR6730_3P, MIR6730_3P
                                                                                                                                                                     GSE13306_RA_VS_UNTREATED_TREG_DN, GSE13306_RA_VS_UNTREATED_TREG_DN
                                                                                                                                                                     AIZARANI_LIVER_C28_NK_NKT_CELLS_6, AIZARANI_LIVER_C28_NK_NKT_CELLS_6
                                                                                                                                                                     REACTOME_REGULATION_OF_PTEN_GENE_TRANSCRIPTION, REACTOME_REGULATION_OF_PTEN_GENE_TRANSCRIPTION
                                                                                                                                                                     GOBP_PHOSPHATIDYLINOSITOL_3_KINASE_SIGNALING, GOBP_PHOSPHATIDYLINOSITOL_3_KINASE_SIGNALING
                                                                                                                                                                     KEGG PANCREATIC CANCER, KEGG PANCREATIC CANCER
                                                                                                                                                                    HP_CARDIAC_ARREST, HP_CARDIAC_ARREST
                                                                                                                                                                     TNCATNTCCYR_UNKNOWN, TNCATNTCCYR_UNKNOWN
                                                                                                                                                                     WP DNA DAMAGE RESPONSE ONLY ATM DEPENDENT, WP DNA DAMAGE RESPONSE ONLY ATM DEPENDENT
                                                                                                                                                                     MIR6509_5P, MIR6509_5P
                                                                                                                                                                     GOBP_REGULATION_OF_PHOSPHATIDYLINOSITOL_3_KINASE_SIGNALING, GOBP_REGULATION_OF_PHOSPHATIDYLINOSITOL_3_KINASE_SIGNALING
                                                                                                                                                                     LEIN_NEURON_MARKERS, LEIN_NEURON_MARKERS
                                                                                                                                                                     MIR3117_5P, MIR3117_5P
                                                                                                                                                                     GOCC_I_BAND, GOCC_I_BAND
                                                                                                                                                                     HP_INTESTINAL_POLYP, HP_INTESTINAL_POLYP
                                                                                                                                                                     KEGG_GLIOMA, KEGG_GLIOMA
                                                                                                                                                                     ATGTAGC MIR221 MIR222, ATGTAGC MIR221 MIR222
                                                                                                                                                                     REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTOSOLIC_CA2, REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTOSOLIC_CA2
                                                                                                                                                                     MIR6749 3P, MIR6749 3P
                                                                                                                                                                     MIR582_3P, MIR582_3P
                                                                                                                                                                     GSE29615_CTRL_VS_LAIV_FLU_VACCINE_PBMC_UP, GSE29615_CTRL_VS_LAIV_FLU_VACCINE_PBMC_UP
                                                                                                                                                                     GSE37605_NOD_VS_C57BL6_IRES_GFP_TREG_DN, GSE37605_NOD_VS_C57BL6_IRES_GFP_TREG_DN
                                                                                                                                                                     ERWIN_COHEN_BLOOD_VACCINE_TC_83_AGE_23_48YO_VACCINATED_VS_CONTROL_2DY_DN, ERWIN_COHEN_BLOOD_VACCINE_TC_83_AGE_23_48YO_VACCINATED_VS_CONTROL_2DY_DN
                                                                                                                                                                     MIR1185_5P, MIR1185_5P
                                                                                                                                                                     MIR6126, MIR6126
                                                                                                                                                                     MIR6887_3P, MIR6887_3P
                                                                                                                                                                     GOBP_REGULATION_OF_JNK_CASCADE, GOBP_REGULATION_OF_JNK_CASCADE
                                                                                                                                                                     GOBP_PLATELET_DEGRANULATION, GOBP_PLATELET_DEGRANULATION
                                                                                                                                                                     MIR6811_5P, MIR6811_5P
                                                                                                                                                                     MIR6511B_5P, MIR6511B_5P
                                                                                                                                                                      LASTOWSKA_COAMPLIFIED_WITH_MYCN, LASTOWSKA_COAMPLIFIED_WITH_MYCN
                                                                                                                                                                      MIR4317, MIR4317
                                                                                                                                                                      MIR4487, MIR4487
                                                                                                                                                                     GSE6269_FLU_VS_STREP_PNEUMO_INF_PBMC_DN, GSE6269_FLU_VS_STREP_PNEUMO_INF_PBMC_DN
                                                                                                                                                                     MIR7113_3P, MIR7113_3P
                                                                                                                                                                     GOBP_REGULATION_OF_MONONUCLEAR_CELL_MIGRATION, GOBP_REGULATION_OF_MONONUCLEAR_CELL_MIGRATION
                                                                                                                                                                     HP_NEOPLASM_OF_THE_PITUITARY_GLAND, HP_NEOPLASM_OF_THE_PITUITARY_GLAND
                                                                                                                                                                     GOMF_LYSOPHOSPHOLIPASE_ACTIVITY, GOMF_LYSOPHOSPHOLIPASE_ACTIVITY
                                                                                                                                                                      MIR4522, MIR4522
                                                                                                                                                                      KEGG_LONG_TERM_DEPRESSION, KEGG_LONG_TERM_DEPRESSION
                                                                                                                                                                     GOBP_POSITIVE_REGULATION_OF_PHOSPHOPROTEIN_PHOSPHATASE_ACTIVITY, GOBP_POSITIVE_REGULATION_OF_PHOSPHOPROTEIN_PHOSPHATASE_ACTIVITY
                                                                                                                                                                     KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION, KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION
IGLITAZONE_STIM_STAT6_KO_MACROPHAGE_DAY10_UP, GSE25088_ROSIGLITAZONE_VS_IL4_AND_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_DAY10_UP
                                                                                                                                                                     GSE7509_FCGRIIB_VS_TNFA_IL1B_IL6_PGE_STIM_DC_DN, GSE7509_FCGRIIB_VS_TNFA_IL1B_IL6_PGE_STIM_DC_DN
                                                                                                                                                                     GSE34205_RSV_VS_FLU_INF_INFANT_PBMC_UP, GSE34205_RSV_VS_FLU_INF_INFANT_PBMC_UP
                                                                                                                                                                     VANDESLUIS_COMMD1_TARGETS_GROUP_3_UP, VANDESLUIS_COMMD1_TARGETS_GROUP_3_UP
                                                                                                                                                                     GSE46242_TH1_VS_ANERGIC_TH1_CD4_TCELL_DN, GSE46242_TH1_VS_ANERGIC_TH1_CD4_TCELL_DN
                                                                                                                                                                      GOBP_REGULATION_OF_PROTEIN_AUTOPHOSPHORYLATION, GOBP_REGULATION_OF_PROTEIN_AUTOPHOSPHORYLATION
                                                                                                                                                                     GSE29615_CTRL_VS_DAY7_LAIV_FLU_VACCINE_PBMC_UP, GSE29615_CTRL_VS_DAY7_LAIV_FLU_VACCINE_PBMC_UP
                                                                                                                                                                     HP_DISPROPORTIONATE_TALL_STATURE, HP_DISPROPORTIONATE_TALL_STATURE
                                                                                                                                                                     MIR3162_5P, MIR3162_5P
                                                                                                                                                                      HP_METATARSUS_VALGUS, HP_METATARSUS_VALGUS
                                                                                                                                                                     REACTOME_OVARIAN_TUMOR_DOMAIN_PROTEASES, REACTOME_OVARIAN_TUMOR_DOMAIN_PROTEASES
                                                                                                                                                                      REACTOME_PI3K_AKT_SIGNALING_IN_CANCER, REACTOME_PI3K_AKT_SIGNALING_IN_CANCER
                                                                                                                                                                     HP_INCREASED_CIRCULATING_PROLACTIN_CONCENTRATION, HP_INCREASED_CIRCULATING_PROLACTIN_CONCENTRATION
                                                                                                                                                                     REACTOME_NEGATIVE_REGULATION_OF_THE_PI3K_AKT_NETWORK, REACTOME_NEGATIVE_REGULATION_OF_THE_PI3K_AKT_NETWORK
                                                                                                                                                                     KEGG_MELANOMA, KEGG_MELANOMA
                                                                                                                                                                     MIR144_5P, MIR144_5P
                                                                                                                                                                     PID_ERBB2_ERBB3_PATHWAY, PID_ERBB2_ERBB3_PATHWAY
                                                                                                                                                                     LI_PBMC_MENACTRA_AGE_18_45YO_CORRELATED_WITH_ANTI_DT_ANTIBODY_3DY_POSITIVE, LI_PBMC_MENACTRA_AGE_18_45YO_CORRELATED_WITH_ANTI_DT_ANTIBODY_3DY_POSITIVE
                                                                                                                                                                     REACTOME_NEPHRIN_FAMILY_INTERACTIONS, REACTOME_NEPHRIN_FAMILY_INTERACTIONS
                                                                                                                                                                     GOBP_ANIMAL_ORGAN_FORMATION, GOBP_ANIMAL_ORGAN_FORMATION
                                                                                                                                                                     MIR6827_5P, MIR6827_5P
                                                                                                                                                                     PRMT5_TARGET_GENES, PRMT5_TARGET_GENES
                                                                                                                                                                     BIOCARTA_KERATINOCYTE_PATHWAY, BIOCARTA_KERATINOCYTE_PATHWAY
                                                                                                                                                                     TRAVAGLINI_LUNG_SEROUS_CELL, TRAVAGLINI_LUNG_SEROUS_CELL
                                                                                                                                                                     DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_UP, DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_UP
                                                                                                                                                                     GOBP_REGULATION_OF_LYMPHOCYTE_APOPTOTIC_PROCESS, GOBP_REGULATION_OF_LYMPHOCYTE_APOPTOTIC_PROCESS
                                                                                                                                                                     MIR6515_5P, MIR6515_5P
                                                                                                                                                                     BIOCARTA_RAC1_PATHWAY, BIOCARTA_RAC1_PATHWAY
                                                                                                                                                                     WP_ESC_PLURIPOTENCY_PATHWAYS, WP_ESC_PLURIPOTENCY_PATHWAYS
                                                                                                                                                                     GOBP_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION, GOBP_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION
                                                                                                                                                                     EVI1_02, EVI1_02
                                                                                                                                                                     GOCC_LAMELLIPODIUM_MEMBRANE, GOCC_LAMELLIPODIUM_MEMBRANE
                                                                                                                                                                     SABATES_COLORECTAL_ADENOMA_SIZE_UP, SABATES_COLORECTAL_ADENOMA_SIZE_UP
                                                                                                                                                                     REACTOME RHO GTPASES ACTIVATE CIT, REACTOME RHO GTPASES ACTIVATE CIT
                                                                                                                                                                     MIR4758_3P, MIR4758_3P
                                                                                                                                                                     REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASCADE, REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASCADE
                                                                                                                                                                     GOBP_NEGATIVE_REGULATION_OF_TRANSMEMBRANE_TRANSPORT, GOBP_NEGATIVE_REGULATION_OF_TRANSMEMBRANE_TRANSPORT
                                                                                                                                                                     ZIRN_TRETINOIN_RESPONSE_WT1_UP, ZIRN_TRETINOIN_RESPONSE_WT1_UP
                                                                                                                                                                     DESCARTES_FETAL_EYE_SMOOTH_MUSCLE_CELLS, DESCARTES_FETAL_EYE_SMOOTH_MUSCLE_CELLS
                                                                                                                                                                     GOBP_MEMBRANE_PROTEIN_ECTODOMAIN_PROTEOLYSIS, GOBP_MEMBRANE_PROTEIN_ECTODOMAIN_PROTEOLYSIS
                                                                                                                                                                     KEGG MELANOGENESIS, KEGG MELANOGENESIS
                                                                                                                                                                     GOBP_ENERGY_RESERVE_METABOLIC_PROCESS, GOBP_ENERGY_RESERVE_METABOLIC_PROCESS
                                                                                                                                                                     BIOCARTA_P38MAPK_PATHWAY, BIOCARTA_P38MAPK_PATHWAY
                                                                                                                                                                     MIR4489, MIR4489
                                                                                                                                                                     WP_P38_MAPK_SIGNALING_PATHWAY, WP_P38_MAPK_SIGNALING_PATHWAY
                                                                                                                                                                     GOBP_REGULATION_OF_FATTY_ACID_BETA_OXIDATION, GOBP_REGULATION_OF_FATTY_ACID_BETA_OXIDATION
                                                                                                                                                                     GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_SALMON_DN, GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_SALMON_DN
                                                                                                                                                                     GOBP_POSITIVE_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY, GOBP_POSITIVE_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY
                                                                                                                                                                     VERNOCHET_ADIPOGENESIS, VERNOCHET_ADIPOGENESIS
                                                                                                                                                                     GOBP_MEMORY, GOBP_MEMORY
                                                                                                                                                                     GOBP_HISTIDINE_CATABOLIC_PROCESS, GOBP_HISTIDINE_CATABOLIC_PROCESS
                                                                                                                                                                     REACTOME_HISTIDINE_CATABOLISM, REACTOME_HISTIDINE_CATABOLISM
                                                                                                                                                                     MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_9, MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_9
                                                                                                                                                                     GOBP_EMBRYONIC_HEART_TUBE_MORPHOGENESIS, GOBP_EMBRYONIC_HEART_TUBE_MORPHOGENESIS
                                                                                                                                                                     GOBP_EMBRYONIC_HEART_TUBE_DEVELOPMENT, GOBP_EMBRYONIC_HEART_TUBE_DEVELOPMENT
                                                                                                                                                                     GOBP_NEGATIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION, GOBP_NEGATIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION
                                                                                                                                                                     GOBP_REGULATION_OF_PROTEIN_LOCALIZATION_TO_CENTROSOME, GOBP_REGULATION_OF_PROTEIN_LOCALIZATION_TO_CENTROSOME
                                                                                                                                                                     GOBP_T_CELL_APOPTOTIC_PROCESS, GOBP_T_CELL_APOPTOTIC_PROCESS
                                                                                                                                                                     REACTOME_ACTIVATION_OF_MATRIX_METALLOPROTEINASES, REACTOME_ACTIVATION_OF_MATRIX_METALLOPROTEINASES
                                                                                                                                                                     GOBP_REGULATION_OF_MEMBRANE_PROTEIN_ECTODOMAIN_PROTEOLYSIS, GOBP_REGULATION_OF_MEMBRANE_PROTEIN_ECTODOMAIN_PROTEOLYSIS
                                                                                                                                                                     HP_RIGHT_BUNDLE_BRANCH_BLOCK, HP_RIGHT_BUNDLE_BRANCH_BLOCK
                                                                                                                                                                     MIR6501_5P, MIR6501_5P
                                                                                                                                                                     MIR4749_3P, MIR4749_3P
                                                                                                                                                                     LHX3_TARGET_GENES, LHX3_TARGET_GENES
                                                                                                                                                                     GOCC_PLATELET_ALPHA_GRANULE, GOCC_PLATELET_ALPHA_GRANULE
                                                                                                                                                                    REACTOME RHO GTPASES ACTIVATE PAKS, REACTOME RHO GTPASES ACTIVATE PAKS
                                                                                                                                                                     GOBP_REGULATION_OF_LIPID_TRANSPORT, GOBP_REGULATION_OF_LIPID_TRANSPORT
                                                                                                                                                                     WP_ASSOCIATION_BETWEEN_PHYSICOCHEMICAL_FEATURES_AND_TOXICITY_ASSOCIATED_PATHWAYS, WP_ASSOCIATION_BETWEEN_PHYSICOCHEMICAL_FEATURES_AND_TOXICITY_ASSOCIATED_PATHWAYS.
                                                                                                                                                                     ZHANG_ADIPOGENESIS_BY_BMP7, ZHANG_ADIPOGENESIS_BY_BMP7
                                                                                                                                                                     GOBP_RESPONSE_TO_CHEMOKINE, GOBP_RESPONSE_TO_CHEMOKINE
                                                                                                                                                                     HP_GASTROINTESTINAL_INFARCTIONS, HP_GASTROINTESTINAL_INFARCTIONS
                                                                                                                                                                    HP_RESPIRATORY_INSUFFICIENCY_DUE_TO_DEFECTIVE_CILIARY_CLEARANCE, HP_RESPIRATORY_INSUFFICIENCY_DUE_TO_DEFECTIVE_CILIARY_CLEARANCE
                                                                                                                                                                     VALK_AML_WITH_EVI1, VALK_AML_WITH_EVI1
                                                                                                                                                                     GOMF_G_PROTEIN_BETA_GAMMA_SUBUNIT_COMPLEX_BINDING, GOMF_G_PROTEIN_BETA_GAMMA_SUBUNIT_COMPLEX_BINDING
                                                                                                                                                                     GOBP_REGULATION_OF_ORGAN_GROWTH, GOBP_REGULATION_OF_ORGAN_GROWTH
                                                                                                                                                                     MIR6724_5P, MIR6724_5P
                                                                                                                                                                     GOBP_NEGATIVE_REGULATION_OF_MONONUCLEAR_CELL_MIGRATION, GOBP_NEGATIVE_REGULATION_OF_MONONUCLEAR_CELL_MIGRATION
                                                                                                                                                                     MIR1277_3P, MIR1277_3P
                                                                                                                                                                    WP_PURINERGIC_SIGNALING, WP_PURINERGIC_SIGNALING
                                                                                                                                                                    MIR6732_5P, MIR6732_5P
                                                                                                                                                                     chr9q21, chr9q21
                                                                                                                                                                     GSE14413_UNSTIM_VS_IFNB_STIM_RAW264_CELLS_UP, GSE14413_UNSTIM_VS_IFNB_STIM_RAW264_CELLS_UP
                                                                                                                                                                    GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_UP, GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_UP
                                                                                                                                                                     GOBP_HISTIDINE_METABOLIC_PROCESS, GOBP_HISTIDINE_METABOLIC_PROCESS
                                                                                                                                                                    GOBP_REGULATION_OF_SKELETAL_MUSCLE_TISSUE_REGENERATION, GOBP_REGULATION_OF_SKELETAL_MUSCLE_TISSUE_REGENERATION
                                                                                                                                                                    GRADE_COLON_VS_RECTAL_CANCER_DN, GRADE_COLON_VS_RECTAL_CANCER_DN
                                                                                                                                                                     GSE15750_WT_VS_TRAF6KO_DAY10_EFF_CD8_TCELL_DN, GSE15750_WT_VS_TRAF6KO_DAY10_EFF_CD8_TCELL_DN
                                                                                                                                                                     GOBP_ICOSANOID_CATABOLIC_PROCESS, GOBP_ICOSANOID_CATABOLIC_PROCESS
                                                                                                                                                                     BOYAULT_LIVER_CANCER_SUBCLASS_G56_DN, BOYAULT_LIVER_CANCER_SUBCLASS_G56_DN
                                                                                                                                                                    GOBP_CARDIAC_NEURAL_CREST_CELL_DIFFERENTIATION_INVOLVED_IN_HEART_DEVELOPMENT, GOBP_CARDIAC_NEURAL_CREST_CELL_DIFFERENTIATION_INVOLVED_IN_HEART_DEVELOPMENT
                                                                                                                                                                    HP_MYELOFIBROSIS, HP_MYELOFIBROSIS
                                                                                                                                                                     HP_ABSENT_OUTER_DYNEIN_ARMS, HP_ABSENT_OUTER_DYNEIN_ARMS
                                                                                                                                                                     WP_MFAP5_EFFECT_ON_PERMEABILITY_AND_MOTILITY_OF_ENDOTHELIAL_CELLS_VIA_CYTOSKELETON_REARRANGEMENT, WP_MFAP5_EFFECT_ON_PERMEABILITY_AND_MOTILITY_OF_ENDOTHELIAL_CELI
                                                                                                                                                                     GOBP_EMBRYONIC_CRANIAL_SKELETON_MORPHOGENESIS, GOBP_EMBRYONIC_CRANIAL_SKELETON_MORPHOGENESIS
                                                                                                                                                                     GOBP_REGULATION_OF_B_CELL_APOPTOTIC_PROCESS, GOBP_REGULATION_OF_B_CELL_APOPTOTIC_PROCESS
                                                                                                                                                                     GOBP_CARDIAC_NEURAL_CREST_CELL_DEVELOPMENT_INVOLVED_IN_OUTFLOW_TRACT_MORPHOGENESIS, GOBP_CARDIAC_NEURAL_CREST_CELL_DEVELOPMENT_INVOLVED_IN_OUTFLOW_TRACT_MORPI
                                                                                                                                                                     GOBP_ACTIN_FILAMENT_NETWORK_FORMATION, GOBP_ACTIN_FILAMENT_NETWORK_FORMATION
                                                                                                                                                                     BIOCARTA_BAD_PATHWAY, BIOCARTA_BAD_PATHWAY
                                                                                                                                                                     GOBP_DEFINITIVE_HEMOPOIESIS, GOBP_DEFINITIVE_HEMOPOIESIS
                                                                                                                                                                     GOBP_POSITIVE_REGULATION_OF_BONE_RESORPTION, GOBP_POSITIVE_REGULATION_OF_BONE_RESORPTION
                                                                                                                                                                     ALONSO_METASTASIS_NEURAL_UP, ALONSO_METASTASIS_NEURAL_UP
                                                                                                                                                                     GOBP_INNATE_IMMUNE_RESPONSE_IN_MUCOSA, GOBP_INNATE_IMMUNE_RESPONSE_IN_MUCOSA
                                                                                                                                                                    GOBP_NEGATIVE_REGULATION_OF_LYMPHOCYTE_MIGRATION, GOBP_NEGATIVE_REGULATION_OF_LYMPHOCYTE_MIGRATION
                                                                                                                                                                     SUZUKI_RESPONSE_TO_TSA, SUZUKI_RESPONSE_TO_TSA
                                                                                                                                                                    MIKKELSEN_NPC_WITH_LCP_H3K27ME3, MIKKELSEN_NPC_WITH_LCP_H3K27ME3
                                                                                                                                                                     GOBP_RESPONSE_TO_ESTROGEN, GOBP_RESPONSE_TO_ESTROGEN
                                                                                                                                                                     GOBP_POSITIVE_REGULATION_OF_NEURON_PROJECTION_REGENERATION, GOBP_POSITIVE_REGULATION_OF_NEURON_PROJECTION_REGENERATION
                                                                                                                                                                    GOBP_SYNAPSE_MATURATION, GOBP_SYNAPSE_MATURATION
                                                                                                                                                                    GOBP_POSITIVE_REGULATION_OF_GLUCOSE_IMPORT, GOBP_POSITIVE_REGULATION_OF_GLUCOSE_IMPORT
                                                                                                                                                                     GOBP_LEUKOTRIENE_B4_CATABOLIC_PROCESS, GOBP_LEUKOTRIENE_B4_CATABOLIC_PROCESS
                                                                                                                                                                     GOMF_LEUKOTRIENE_B4_20_MONOOXYGENASE_ACTIVITY, GOMF_LEUKOTRIENE_B4_20_MONOOXYGENASE_ACTIVITY
                                                                                                                                                                     HP_ABNORMALITY_OF_THE_INTERNAL_AUDITORY_CANAL, HP_ABNORMALITY_OF_THE_INTERNAL_AUDITORY_CANAL
                                                                                                                                                                     GOBP_NEGATIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_PROLIFERATION, GOBP_NEGATIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_PROLIFERATION
                                                                                                                                                                     GOBP_LONG_CHAIN_FATTY_ACID_IMPORT_INTO_CELL, GOBP_LONG_CHAIN_FATTY_ACID_IMPORT_INTO_CELL
                                                                                                                                                                     SASAKI_TARGETS_OF_TP73_AND_TP63, SASAKI_TARGETS_OF_TP73_AND_TP63
                                                                                                                                                                     REACTOME_EICOSANOIDS, REACTOME_EICOSANOIDS
                                                                                                                                                                     MODULE 557, MODULE 557
                                                                                                                                                                     HP_CENTRAL_OPACIFICATION_OF_THE_CORNEA, HP_CENTRAL_OPACIFICATION_OF_THE_CORNEA
                                                                                                                                                                     FAN_EMBRYONIC_CTX_IN_3_INTERNEURON, FAN_EMBRYONIC_CTX_IN_3_INTERNEURON
                                                                                                                                                                     BIOCARTA_41BB_PATHWAY, BIOCARTA_41BB_PATHWAY
                                                                                                                                                                     MIR454_5P, MIR454_5P
                                                                                                                                                                     BIOCARTA_ERK5_PATHWAY, BIOCARTA_ERK5_PATHWAY
                                                                                                                                                                     MIKKELSEN_ES_LCP_WITH_H3K4ME3, MIKKELSEN_ES_LCP_WITH_H3K4ME3
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REACTOME_CREB1_PHOSPHORYLATION_THROUGH_NMDA_RECEPTOR_MEDIATED_ACTIVATION_OF_RAS_SIGNALING, REACTOME_CREB1_PHOSPHORYLATION_THROUGH_NMDA_RECEPTOR_NMDA_

GOBP_POSITIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION, GOBP_POSITIVE_REGULATION_OF_CD4_POSITIVE_ALPHA_BETA_T_CELL_ACTIVATION