```
GSE36009 WT VS NLRP10 KO DC DN, GSE36009 WT VS NLRP10 KO DC DN
                                                                          GSE46606 IRF4MID VS WT CD40L IL2 IL5 DAY3 STIMULATED BCELL DN, GSE46606 IRF4MID VS WT CD40L IL2 IL5 DAY3 STIMULATED BCELL DN
                                                                          GSE17721_4H_VS_24H_POLYIC_BMDC_DN, GSE17721_4H_VS_24H_POLYIC_BMDC_DN
                                                                         GSE36891_UNSTIM_VS_PAM_TLR2_STIM_PERITONEAL_MACROPHAGE_UP, GSE36891_UNSTIM_VS_PAM_TLR2_STIM_PERITONEAL_MACROPHAGE_UP
                                                                          GSE22601 IMMATURE_CD4_SINGLE_POSITIVE_VS_DOUBLE_POSITIVE_THYMOCYTE_DN, GSE22601_IMMATURE_CD4_SINGLE_POSITIVE_VS_DOUBLE_POSITIVE_THYMOCYTE_DN
                                                                         GSE22103_UNSTIM_VS_LPS_STIM_NEUTROPHIL_UP, GSE22103_UNSTIM_VS_LPS_STIM_NEUTROPHIL_UP
                                                                         GSE22601_DOUBLE_NEGATIVE_VS_CD4_SINGLE_POSITIVE_THYMOCYTE_UP, GSE22601_DOUBLE_NEGATIVE_VS_CD4_SINGLE_POSITIVE_THYMOCYTE_UP
                                                                          GSE27896_HDAC6_KO_VS_WT_TREG_UP, GSE27896_HDAC6_KO_VS_WT_TREG_UP
                                                                          GSE6092_B_BURGDOFERI_VS_B_BURGDORFERI_AND_IFNG_STIM_ENDOTHELIAL_CELL_DN, GSE6092_B_BURGDOFERI_VS_B_BURGDORFERI_AND_IFNG_STIM_ENDOTHELIAL_CELL_DN
                                                                          GSE17721_LPS_VS_CPG_4H_BMDC_DN, GSE17721_LPS_VS_CPG_4H_BMDC_DN
                                                                          GSE20754_WT_VS_TCF1_KO_MEMORY_CD8_TCELL_UP, GSE20754_WT_VS_TCF1_KO_MEMORY_CD8_TCELL_UP
                                                                          GSE8621_LPS_STIM_VS_LPS_PRIMED_AND_LPS_STIM_MACROPHAGE_DN, GSE8621_LPS_STIM_VS_LPS_PRIMED_AND_LPS_STIM_MACROPHAGE_DN
                                                                         GSE41176_UNSTIM_VS_ANTI_IGM_STIM_BCELL_6H_DN, GSE41176_UNSTIM_VS_ANTI_IGM_STIM_BCELL_6H_DN
                                                                          GSE17721_0.5H_VS_8H_PAM3CSK4_BMDC_DN, GSE17721_0.5H_VS_8H_PAM3CSK4_BMDC_DN
                                                                          GSE7768 OVA ALONE VS OVA WITH LPS IMMUNIZED MOUSE WHOLE SPLEEN 6H DN, GSE7768 OVA ALONE VS OVA WITH LPS IMMUNIZED MOUSE WHOLE SPLEEN 6H DN
                                                                         GSE46606 IRF4 KO_VS_WT_CD40L_IL2_IL5_3DAY_STIMULATED_BCELL_DN, GSE46606_IRF4_KO_VS_WT_CD40L_IL2_IL5_3DAY_STIMULATED_BCELL_DN
                                                                         GSE34156_UNTREATED_VS_6H_TLR1_TLR2_LIGAND_TREATED_MONOCYTE_DN, GSE34156_UNTREATED_VS_6H_TLR1_TLR2_LIGAND_TREATED_MONOCYTE_DN
                                                                         GSE11961_FOLLICULAR_BCELL_VS_GERMINAL_CENTER_BCELL_DAY40_DN, GSE11961_FOLLICULAR_BCELL_VS_GERMINAL_CENTER_BCELL_DAY40_DN
                                                                         GSE34392 ST2 KO_VS_WT_DAY8_LCMV_EFFECTOR_CD8_TCELL_DN, GSE34392_ST2_KO_VS_WT_DAY8_LCMV_EFFECTOR_CD8_TCELL_DN
                                                                          GSE43863 DAY6 EFF VS DAY150 MEM TH1 CD4 TCELL UP, GSE43863 DAY6 EFF VS DAY150 MEM TH1 CD4 TCELL UP
                                                                          GSE9037 CTRL VS LPS 1H STIM IRAK4 KO BMDM UP, GSE9037 CTRL VS LPS 1H STIM IRAK4 KO BMDM UP
                                                                          GSE37532_WT_VS_PPARG_KO_LN_TCONV_UP, GSE37532_WT_VS_PPARG_KO_LN_TCONV_UP
                                                                          GSE15330_HSC_VS_LYMPHOID_PRIMED_MULTIPOTENT_PROGENITOR_UP, GSE15330_HSC_VS_LYMPHOID_PRIMED_MULTIPOTENT_PROGENITOR_UP
                                                                         GSE19923_HEB_KO_VS_HEB_AND_E2A_KO_DP_THYMOCYTE_DN, GSE19923_HEB_KO_VS_HEB_AND_E2A_KO_DP_THYMOCYTE_DN
                                                                         GSE4748_CTRL_VS_LPS_STIM_DC_3H_UP, GSE4748_CTRL_VS_LPS_STIM_DC_3H_UP
                                                                          GSE19888_ADENOSINE_A3R_ACT_VS_TCELL_MEMBRANES_ACT_AND_A3R_INH_PRETREAT_IN_MAST_CELL_DN, GSE19888_ADENOSINE_A3R_ACT_VS_TCELL_MEMBRANES_ACT_AND_A3R_INH_PRETREAT_IN_MAST_CELL_DN
                                                                          GSE9037 CTRL VS LPS 4H STIM IRAK4 KO BMDM DN, GSE9037 CTRL VS LPS 4H STIM IRAK4 KO BMDM DN
                                                                          GSE33162_UNTREATED_VS_4H_LPS_STIM_HDAC3_HET_MACROPHAGE_UP, GSE33162_UNTREATED_VS_4H_LPS_STIM_HDAC3_HET_MACROPHAGE_UP
                                                                          GSE14769_UNSTIM_VS_360MIN_LPS_BMDM_DN, GSE14769_UNSTIM_VS_360MIN_LPS_BMDM_DN
                                                                          MIR186_3P, MIR186_3P
                                                                         GSE23925_DARK_ZONE_VS_NAIVE_BCELL_DN, GSE23925_DARK_ZONE_VS_NAIVE_BCELL_DN
                                                                         GSE40274_CTRL_VS_GATA1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN, GSE40274_CTRL_VS_GATA1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN
                                                                         GSE27241_CTRL_VS_DIGOXIN_TREATED_CD4_TCELL_IN_TH17_POLARIZING_CONDITIONS_UP, GSE27241_CTRL_VS_DIGOXIN_TREATED_CD4_TCELL_IN_TH17_POLARIZING_CONDITIONS_UP
                                                                         CREBP1_01, CREBP1_01
                                                                         GSE17721_CTRL_VS_CPG_2H_BMDC_DN, GSE17721_CTRL_VS_CPG_2H_BMDC_DN
                                                                          GSE16385_ROSIGLITAZONE_IFNG_TNF_VS_IL4_STIM_MACROPHAGE_UP, GSE16385_ROSIGLITAZONE_IFNG_TNF_VS_IL4_STIM_MACROPHAGE_UP
                                                                         GSE27786_BCELL_VS_NEUTROPHIL_DN, GSE27786_BCELL_VS_NEUTROPHIL_DN
                                                                          AAACCAC_MIR140, AAACCAC_MIR140
                                                                         GGCAGTG_MIR3243P, GGCAGTG_MIR3243P
                                                                          GSE9946_MATURE_STIMULATORY_VS_LISTERIA_INF_MATURE_DC_UP, GSE9946_MATURE_STIMULATORY_VS_LISTERIA_INF_MATURE_DC_UP
                                                                          GSE46606_IRF4MID_VS_WT_CD40L_IL2_IL5_DAY1_STIMULATED_BCELL_DN, GSE46606_IRF4MID_VS_WT_CD40L_IL2_IL5_DAY1_STIMULATED_BCELL_DN
                                                                          MIR6788 5P, MIR6788 5P
                                                                          GSE17721_CTRL_VS_LPS_2H_BMDC_DN, GSE17721_CTRL_VS_LPS_2H_BMDC_DN
                                                                          MIR4802_3P, MIR4802_3P
                                                                         MIR30C 1 3P, MIR30C 1 3P
                                                                         GSE360_L_MAJOR_VS_T_GONDII_MAC_UP, GSE360_L_MAJOR_VS_T_GONDII_MAC_UP
                                                                          MIR3150B_3P, MIR3150B_3P
                                                                         MIR4784, MIR4784
                                                                          MIR892A, MIR892A
                                                                         MIR4756_3P, MIR4756_3P
                                                                         MIR6134, MIR6134
                                                                         GSE6259 33D1 POS DC VS BCELL UP, GSE6259 33D1 POS DC VS BCELL UP
                                                                          DIRMEIER LMP1 RESPONSE LATE UP, DIRMEIER LMP1 RESPONSE LATE UP
                                                                         MIR1183, MIR1183
                                                                         KEGG COLORECTAL CANCER, KEGG COLORECTAL CANCER
                                                                         GSE13306_TREG_VS_TCONV_LAMINA_PROPRIA_DN, GSE13306_TREG_VS_TCONV_LAMINA_PROPRIA_DN
                                                                         MIR6868_5P, MIR6868_5P
                                                                         RODRIGUES THYROID CARCINOMA DN, RODRIGUES THYROID CARCINOMA DN
                                                                         MIR634, MIR634
                                                                         GOBP_REGULATION_OF_HISTONE_METHYLATION, GOBP_REGULATION_OF_HISTONE_METHYLATION
                                                                         ROVERSI_GLIOMA_COPY_NUMBER_UP, ROVERSI_GLIOMA_COPY_NUMBER_UP
                                                                         GSE22527_ANTI_CD3_INVIVO_VS_UNTREATED_MOUSE_TREG_UP, GSE22527_ANTI_CD3_INVIVO_VS_UNTREATED_MOUSE_TREG_UP
                                                                         ATF6_01, ATF6_01
                                                                         MIR4639_3P, MIR4639_3P
                                                                         MODULE 522, MODULE 522
                                                                         RTTTNNNYTGGM_UNKNOWN, RTTTNNNYTGGM_UNKNOWN
                                                                          GROSS_HYPOXIA_VIA_HIF1A_DN, GROSS_HYPOXIA_VIA_HIF1A_DN
                                                                         MIR4696, MIR4696
                                                                         KRAS.DF.V1_DN, KRAS.DF.V1_DN
                                                                         REACTOME_INTRA_GOLGI_TRAFFIC, REACTOME_INTRA_GOLGI_TRAFFIC
                                                                         CTCAAGA MIR526B, CTCAAGA MIR526B
                                                                         GSE13547_CTRL_VS_ANTI_IGM_STIM_ZFX_KO_BCELL_12H_UP, GSE13547_CTRL_VS_ANTI_IGM_STIM_ZFX_KO_BCELL_12H_UP
                                                                         GSE16385_UNTREATED_VS_12H_ROSIGLITAZONE_IFNG_TNF_TREATED_MACROPHAGE_UP, GSE16385_UNTREATED_VS_12H_ROSIGLITAZONE_IFNG_TNF_TREATED_MACROPHAGE_UP
                                                                         MIR5004_5P, MIR5004_5P
                                                                         REACTOME_RHOU_GTPASE_CYCLE, REACTOME_RHOU_GTPASE_CYCLE
                                                                         WP_REGULATION_OF_TOLLLIKE_RECEPTOR_SIGNALING_PATHWAY, WP_REGULATION_OF_TOLLLIKE_RECEPTOR_SIGNALING_PATHWAY
                                                                         WP_HEAD_AND_NECK_SQUAMOUS_CELL_CARCINOMA, WP_HEAD_AND_NECK_SQUAMOUS_CELL_CARCINOMA
                                                                         WP_PHOSPHOINOSITIDES_METABOLISM, WP_PHOSPHOINOSITIDES_METABOLISM
                                                                         CCTNTMAGA_UNKNOWN, CCTNTMAGA_UNKNOWN
                                                                         MIR6797_3P, MIR6797_3P
                                                                         GSE27092_WT_VS_HDAC7_PHOSPHO_DEFICIENT_CD8_TCELL_UP, GSE27092_WT_VS_HDAC7_PHOSPHO_DEFICIENT_CD8_TCELL_UP
                                                                         CCAGGTT MIR490, CCAGGTT MIR490
                                                                         WP_TOLLLIKE_RECEPTOR_SIGNALING_RELATED_TO_MYD88, WP_TOLLLIKE_RECEPTOR_SIGNALING_RELATED_TO_MYD88
                                                                         MIR7974, MIR7974
                                                                         GOBP_FIBROBLAST_MIGRATION, GOBP_FIBROBLAST_MIGRATION
                                                                          MIR6848_3P, MIR6848_3P
                                                                         GOMF_SMAD_BINDING, GOMF_SMAD_BINDING
                                                                         MARSON_FOXP3_TARGETS_UP, MARSON_FOXP3_TARGETS_UP
                                                                          BAKKER_FOXO3_TARGETS_UP, BAKKER_FOXO3_TARGETS_UP
                                                                         GSE17721_CTRL_VS_CPG_1H_BMDC_DN, GSE17721_CTRL_VS_CPG_1H_BMDC_DN
                                                                          KEGG_TGF_BETA_SIGNALING_PATHWAY, KEGG_TGF_BETA_SIGNALING_PATHWAY
                                                                          MIR6076, MIR6076
                                                                          MIR6843 3P, MIR6843 3P
                                                                         GGCKCATGS_UNKNOWN, GGCKCATGS_UNKNOWN
                                                                          NAKAMURA_METASTASIS, NAKAMURA_METASTASIS
                                                                          GSE29949_DC_BRAIN_VS_MONOCYTE_BONE_MARROW_DN, GSE29949_DC_BRAIN_VS_MONOCYTE_BONE_MARROW_DN
                                                                          MIR6780B_3P, MIR6780B_3P
                                                                         RYTGCNWTGGNR_UNKNOWN, RYTGCNWTGGNR_UNKNOWN
                                                                         FXR_Q3, FXR_Q3
                                                                         EVI1 02, EVI1 02
                                                                          MIR3620_5P, MIR3620_5P
                                                                         REACTOME_SIGNALING_BY_CYTOSOLIC_FGFR1_FUSION_MUTANTS, REACTOME_SIGNALING_BY_CYTOSOLIC_FGFR1_FUSION_MUTANTS
                                                                         GTCAGGA_MIR378, GTCAGGA_MIR378
                                                                         GOMF_ACETYLGALACTOSAMINYLTRANSFERASE_ACTIVITY, GOMF_ACETYLGALACTOSAMINYLTRANSFERASE_ACTIVITY
                                                                         MIR1587, MIR1587
                                                                         MIR652_5P, MIR652_5P
                                                                         GENTILE_UV_RESPONSE_CLUSTER_D8, GENTILE_UV_RESPONSE_CLUSTER_D8
                                                                         MORI_SMALL_PRE_BII_LYMPHOCYTE_UP, MORI_SMALL_PRE_BII_LYMPHOCYTE_UP
                                                                         GOBP_REGULATION_OF_FIBROBLAST_MIGRATION, GOBP_REGULATION_OF_FIBROBLAST_MIGRATION
                                                                          PID PI3KCI PATHWAY, PID PI3KCI PATHWAY
                                                                         GOBP_HYALURONAN_CATABOLIC_PROCESS, GOBP_HYALURONAN_CATABOLIC_PROCESS
                                                                         REACTOME DOWNREGULATION OF SMAD2 3 SMAD4 TRANSCRIPTIONAL ACTIVITY, REACTOME DOWNREGULATION OF SMAD2 3 SMAD4 TRANSCRIPTIONAL ACTIVITY
                                                                         GOMF_PHOSPHATIDYLINOSITOL_3_4_5_TRISPHOSPHATE_BINDING, GOMF_PHOSPHATIDYLINOSITOL_3_4_5_TRISPHOSPHATE_BINDING
                                                                          MIR4450, MIR4450
                                                                         BIOCARTA GLEEVEC PATHWAY, BIOCARTA GLEEVEC PATHWAY
                                                                         GOBP_POSITIVE_REGULATION_OF_PHOSPHATIDYLINOSITOL_3_KINASE_SIGNALING, GOBP_POSITIVE_REGULATION_OF_PHOSPHATIDYLINOSITOL_3_KINASE_SIGNALING
                                                                         GOCC_PHOSPHATIDYLINOSITOL_3_KINASE_COMPLEX, GOCC_PHOSPHATIDYLINOSITOL_3_KINASE_COMPLEX
                                                                          MIR631, MIR631
                                                                         BIOCARTA_BCELLSURVIVAL_PATHWAY, BIOCARTA_BCELLSURVIVAL_PATHWAY
                                                                          MIR571, MIR571
                                                                         MIR324 5P, MIR324 5P
                                                                         BIOCARTA_PAR1_PATHWAY, BIOCARTA_PAR1_PATHWAY
                                                                          MIKKELSEN NPC LCP WITH H3K4ME3, MIKKELSEN NPC LCP WITH H3K4ME3
                                                                         MIR3661, MIR3661
                                                                         STAMBOLSKY_TARGETS_OF_MUTATED_TP53_DN, STAMBOLSKY_TARGETS_OF_MUTATED_TP53_DN
                                                                         BIOCARTA_AKT_PATHWAY, BIOCARTA_AKT_PATHWAY
                                                                         REACTOME_SIGNALING_BY_ERYTHROPOIETIN, REACTOME_SIGNALING_BY_ERYTHROPOIETIN
                                                                         BIOCARTA_HCMV_PATHWAY, BIOCARTA_HCMV_PATHWAY
                                                                         GOBP_PHOSPHATIDYLINOSITOL_3_PHOSPHATE_BIOSYNTHETIC_PROCESS, GOBP_PHOSPHATIDYLINOSITOL_3_PHOSPHATE_BIOSYNTHETIC_PROCESS
                                                                         GOBP_RESPONSE_TO_FIBROBLAST_GROWTH_FACTOR, GOBP_RESPONSE_TO_FIBROBLAST_GROWTH_FACTOR
                                                                         MIR6827_5P, MIR6827_5P
                                                                         NAKAMURA_METASTASIS_MODEL_UP, NAKAMURA_METASTASIS_MODEL_UP
                                                                         REACTOME_NEGATIVE_REGULATION_OF_THE_PI3K_AKT_NETWORK, REACTOME_NEGATIVE_REGULATION_OF_THE_PI3K_AKT_NETWORK
                                                                         PID_IL1_PATHWAY, PID_IL1_PATHWAY
                                                                         REACTOME EGR2 AND SOX10 MEDIATED INITIATION OF SCHWANN CELL MYELINATION, REACTOME EGR2 AND SOX10 MEDIATED INITIATION OF SCHWANN CELL MYELINATION
                                                                         MIR20B 3P, MIR20B 3P
                                                                         MIR5702, MIR5702
                                                                         GOMF_PHOSPHATIDYLINOSITOL_KINASE_ACTIVITY, GOMF_PHOSPHATIDYLINOSITOL_KINASE_ACTIVITY
                                                                         WP_HOSTPATHOGEN_INTERACTION_OF_HUMAN_CORONA_VIRUSES_AUTOPHAGY, WP_HOSTPATHOGEN_INTERACTION_OF_HUMAN_CORONA_VIRUSES_AUTOPHAGY
                                                                         GOMF_L_AMINO_ACID_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_L_AMINO_ACID_TRANSMEMBRANE_TRANSPORTER_ACTIVITY
                                                                          KEGG O GLYCAN BIOSYNTHESIS, KEGG O GLYCAN BIOSYNTHESIS
                                                                         SA_PTEN_PATHWAY, SA_PTEN_PATHWAY
                                                                         HP_ABNORMAL_SIZE_OF_PITUITARY_GLAND, HP_ABNORMAL_SIZE_OF_PITUITARY_GLAND
                                                                          GOMF_MODIFIED_AMINO_ACID_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_MODIFIED_AMINO_ACID_TRANSMEMBRANE_TRANSPORTER_ACTIVITY
                                                                         GOBP_HISTONE_H3_K4_TRIMETHYLATION, GOBP_HISTONE_H3_K4_TRIMETHYLATION
                                                                          MIR3162 3P, MIR3162 3P
                                                                          GOBP_O_GLYCAN_PROCESSING, GOBP_O_GLYCAN_PROCESSING
                                                                          BIOCARTA_PDGF_PATHWAY, BIOCARTA_PDGF_PATHWAY
                                                                          MIR1258, MIR1258
                                                                          MIR6773_5P, MIR6773_5P
                                                                          MIR5581_5P, MIR5581_5P
                                                                          PID_AVB3_OPN_PATHWAY, PID_AVB3_OPN_PATHWAY
                                                                          MIR4507, MIR4507
                                                                         WP_NEOVASCULARISATION_PROCESSES, WP_NEOVASCULARISATION_PROCESSES
                                                                         BIOCARTA_ARAP_PATHWAY, BIOCARTA_ARAP_PATHWAY
TIM_VS_LPS_STIM_DC_DN, GSE36009_UNSTIM_VS_LPS_STIM_DC_DN
                                                                          FINETTI_BREAST_CANCERS_KINOME_GRAY, FINETTI_BREAST_CANCERS_KINOME_GRAY
                                                                          MIR6747_5P, MIR6747_5P
                                                                          GOBP_MODIFIED_AMINO_ACID_TRANSPORT, GOBP_MODIFIED_AMINO_ACID_TRANSPORT
                                                                          TIAN_TNF_SIGNALING_VIA_NFKB, TIAN_TNF_SIGNALING_VIA_NFKB
                                                                          BIOCARTA_INSULIN_PATHWAY, BIOCARTA_INSULIN_PATHWAY
                                                                          HP_ELEVATED_TISSUE_NON_SPECIFIC_ALKALINE_PHOSPHATASE, HP_ELEVATED_TISSUE_NON_SPECIFIC_ALKALINE_PHOSPHATASE
                                                                          MIR6796_5P, MIR6796_5P
                                                                         REACTOME_HYALURONAN_UPTAKE_AND_DEGRADATION, REACTOME_HYALURONAN_UPTAKE_AND_DEGRADATION
                                                                          MODULE_421, MODULE_421
                                                                          MIR619_3P, MIR619_3P
                                                                          GOBP_SMAD_PROTEIN_SIGNAL_TRANSDUCTION, GOBP_SMAD_PROTEIN_SIGNAL_TRANSDUCTION
                                                                          GOBP PEPTIDYL SERINE DEPHOSPHORYLATION, GOBP PEPTIDYL SERINE DEPHOSPHORYLATION
                                                                         DORN_ADENOVIRUS_INFECTION_24HR_DN, DORN_ADENOVIRUS_INFECTION_24HR_DN
                                                                          BIOCARTA_GH_PATHWAY, BIOCARTA_GH_PATHWAY
                                                                          BIOCARTA_TPO_PATHWAY, BIOCARTA_TPO_PATHWAY
                                                                          REACTOME_SIGNALING_BY_FLT3_FUSION_PROTEINS, REACTOME_SIGNALING_BY_FLT3_FUSION_PROTEINS
                                                                          ZNF697_TARGET_GENES, ZNF697_TARGET_GENES
                                                                          MIR6724_5P, MIR6724_5P
                                                                         GOMF_ACETYLGLUCOSAMINYLTRANSFERASE_ACTIVITY, GOMF_ACETYLGLUCOSAMINYLTRANSFERASE_ACTIVITY
                                                                         GSE13485 CTRL VS DAY3 YF17D VACCINE PBMC UP, GSE13485 CTRL VS DAY3 YF17D VACCINE PBMC UP
                                                                         GOCC_ATG1_ULK1_KINASE_COMPLEX, GOCC_ATG1_ULK1_KINASE_COMPLEX
                                                                         HEIDENBLAD_AMPLIFIED_IN_SOFT_TISSUE_CANCER, HEIDENBLAD_AMPLIFIED_IN_SOFT_TISSUE_CANCER
                                                                         REACTOME_O_LINKED_GLYCOSYLATION_OF_MUCINS, REACTOME_O_LINKED_GLYCOSYLATION_OF_MUCINS
                                                                          REACTOME FGFR1 MUTANT RECEPTOR ACTIVATION, REACTOME FGFR1 MUTANT RECEPTOR ACTIVATION
                                                                         GOMF_1_PHOSPHATIDYLINOSITOL_3_KINASE_ACTIVITY, GOMF_1_PHOSPHATIDYLINOSITOL_3_KINASE_ACTIVITY
                                                                         REACTOME_ERYTHROPOIETIN_ACTIVATES_PHOSPHOINOSITIDE_3_KINASE_PI3K, REACTOME_ERYTHROPOIETIN_ACTIVATES_PHOSPHOINOSITIDE_3_KINASE_PI3K
                                                                         GOMF PHOSPHATIDYLINOSITOL 3 KINASE ACTIVITY, GOMF PHOSPHATIDYLINOSITOL 3 KINASE ACTIVITY
                                                                         AMIT_EGF_RESPONSE_240_HELA, AMIT_EGF_RESPONSE_240_HELA
                                                                         BIOCARTA_TOB1_PATHWAY, BIOCARTA_TOB1_PATHWAY
                                                                         GOBP_REGULATION_OF_SMAD_PROTEIN_SIGNAL_TRANSDUCTION, GOBP_REGULATION_OF_SMAD_PROTEIN_SIGNAL_TRANSDUCTION
                                                                         REACTOME_HYALURONAN_METABOLISM, REACTOME_HYALURONAN_METABOLISM
                                                                         BIOCARTA_GCR_PATHWAY, BIOCARTA_GCR_PATHWAY
                                                                          REACTOME_FOXO_MEDIATED_TRANSCRIPTION_OF_CELL_CYCLE_GENES, REACTOME_FOXO_MEDIATED_TRANSCRIPTION_OF_CELL_CYCLE_GENES
                                                                         MIR4687_5P, MIR4687_5P
                                                                         BIOCARTA_EDG1_PATHWAY, BIOCARTA_EDG1_PATHWAY
                                                                         GOBP REGULATION OF CHROMATIN BINDING, GOBP REGULATION OF CHROMATIN BINDING
                                                                         HP_ULNAR_CLAW, HP_ULNAR_CLAW
                                                                         GOMF_TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_BINDING, GOMF_TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_BINDING
                                                                         HP DIASTEMA, HP DIASTEMA
                                                                         GOMF_HYALURONONGLUCOSAMINIDASE_ACTIVITY, GOMF_HYALURONONGLUCOSAMINIDASE_ACTIVITY
                                                                          MIR609, MIR609
                                                                          AACGGTT_MIR451, AACGGTT_MIR451
                                                                          MODULE 560, MODULE 560
                                                                          HP_HYPERTROPHIC_NERVE_CHANGES, HP_HYPERTROPHIC_NERVE_CHANGES
                                                                          MIR6069, MIR6069
                                                                          ILK_TARGET_GENES, ILK_TARGET_GENES
                                                                          MIR6769A 3P, MIR6769A 3P
                                                                         GOMF_PHOSPHATIDYLINOSITOL_PHOSPHATE_KINASE_ACTIVITY, GOMF_PHOSPHATIDYLINOSITOL_PHOSPHATE_KINASE_ACTIVITY
                                                                          MIR4741, MIR4741
                                                                          HP_HYPERLIPOPROTEINEMIA, HP_HYPERLIPOPROTEINEMIA
                                                                          MIR1268A_MIR1268B, MIR1268A_MIR1268B
                                                                          MIR3914, MIR3914
                                                                         WP TCELL RECEPTOR AND COSTIMULATORY SIGNALING, WP TCELL RECEPTOR AND COSTIMULATORY SIGNALING
                                                                          BIOCARTA_IGF1_PATHWAY, BIOCARTA_IGF1_PATHWAY
                                                                         PID_GLYPICAN_1PATHWAY, PID_GLYPICAN_1PATHWAY
                                                                         HP INCREASED LDL CHOLESTEROL CONCENTRATION, HP INCREASED LDL CHOLESTEROL CONCENTRATION
                                                                         GOCC_ENDOPLASMIC_RETICULUM_PLASMA_MEMBRANE_CONTACT_SITE, GOCC_ENDOPLASMIC_RETICULUM_PLASMA_MEMBRANE_CONTACT_SITE
                                                                         HP_VENOUS_MALFORMATION, HP_VENOUS_MALFORMATION
                                                                         REACTOME_INTERLEUKIN_1_PROCESSING, REACTOME_INTERLEUKIN_1_PROCESSING
                                                                          BIOCARTA_TFF_PATHWAY, BIOCARTA_TFF_PATHWAY
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GOBP_NEGATIVE_REGULATION_OF_CELL_CYCLE_CHECKPOINT, GOBP_NEGATIVE_REGULATION_OF_CELL_CYCLE_CHECKPOINT
GOMF_I_SMAD_BINDING, GOMF_I_SMAD_BINDING
MEDINA_SMARCA4_TARGETS, MEDINA_SMARCA4_TARGETS
GOBP CELL JUNCTION DISASSEMBLY, GOBP CELL JUNCTION DISASSEMBLY
GOMF RNA POLYMERASE II ACTIVATING TRANSCRIPTION FACTOR BINDING, GOMF RNA POLYMERASE II ACTIVATING TRANSCRIPTION FACTOR BINDING
MIR3935, MIR3935
GOBP_GERM_CELL_MIGRATION, GOBP_GERM_CELL_MIGRATION
BIOCARTA_ARF_PATHWAY, BIOCARTA_ARF_PATHWAY
CTACTAG_MIR325, CTACTAG_MIR325
GOBP ENERGY HOMEOSTASIS, GOBP ENERGY HOMEOSTASIS
GOBP_POSITIVE_REGULATION_OF_FIBROBLAST_APOPTOTIC_PROCESS, GOBP_POSITIVE_REGULATION_OF_FIBROBLAST_APOPTOTIC_PROCESS
MIR328 5P, MIR328 5P
HP_ABNORMAL_LDL_CHOLESTEROL_CONCENTRATION, HP_ABNORMAL_LDL_CHOLESTEROL_CONCENTRATION
ZIRN_TRETINOIN_RESPONSE_UP, ZIRN_TRETINOIN_RESPONSE_UP
REACTOME_CD28_DEPENDENT_PI3K_AKT_SIGNALING, REACTOME_CD28_DEPENDENT_PI3K_AKT_SIGNALING
BIOCARTA NGF PATHWAY, BIOCARTA NGF PATHWAY
ZFP28_TARGET_GENES, ZFP28_TARGET_GENES
FOURNIER_ACINAR_DEVELOPMENT_EARLY_UP, FOURNIER_ACINAR_DEVELOPMENT_EARLY_UP
SINGH_NFE2L2_TARGETS, SINGH_NFE2L2_TARGETS
GOBP_NEUROBLAST_DIVISION, GOBP_NEUROBLAST_DIVISION
PID_SHP2_PATHWAY, PID_SHP2_PATHWAY
GOBP_REGULATION_OF_PROTEIN_LOCALIZATION_TO_CILIUM, GOBP_REGULATION_OF_PROTEIN_LOCALIZATION_TO_CILIUM
BIOCARTA_BAD_PATHWAY, BIOCARTA_BAD_PATHWAY
GOBP_ENDOPLASMIC_RETICULUM_LOCALIZATION, GOBP_ENDOPLASMIC_RETICULUM_LOCALIZATION
MIR136_3P, MIR136_3P
REACTOME_REGULATION_OF_GLYCOLYSIS_BY_FRUCTOSE_2_6_BISPHOSPHATE_METABOLISM, REACTOME_REGULATION_OF_GLYCOLYSIS_BY_FRUCTOSE_2_6_BISPHOSPHATE_METABOLISM
HP_ABNORMALITY_OF_THE_POSTERIOR_PITUITARY, HP_ABNORMALITY_OF_THE_POSTERIOR_PITUITARY
ZHENG_RESPONSE_TO_ARSENITE_UP, ZHENG_RESPONSE_TO_ARSENITE_UP
GOBP_SULFUR_AMINO_ACID_TRANSPORT, GOBP_SULFUR_AMINO_ACID_TRANSPORT
GOBP_MAST_CELL_MIGRATION, GOBP_MAST_CELL_MIGRATION
BIOCARTA_ACH_PATHWAY, BIOCARTA_ACH_PATHWAY
MIR6885_5P, MIR6885_5P
EVI1_01, EVI1_01
BIOCARTA_LONGEVITY_PATHWAY, BIOCARTA_LONGEVITY_PATHWAY
GOBP REGULATION OF MAST CELL CHEMOTAXIS, GOBP REGULATION OF MAST CELL CHEMOTAXIS
CLIMENT_BREAST_CANCER_COPY_NUMBER_DN, CLIMENT_BREAST_CANCER_COPY_NUMBER_DN
BIOCARTA_IL7_PATHWAY, BIOCARTA_IL7_PATHWAY
KORKOLA_EMBRYONAL_CARCINOMA, KORKOLA_EMBRYONAL_CARCINOMA
KEGG_TAURINE_AND_HYPOTAURINE_METABOLISM, KEGG_TAURINE_AND_HYPOTAURINE_METABOLISM
MIR7706, MIR7706
NAKAMURA_METASTASIS_MODEL_DN, NAKAMURA_METASTASIS_MODEL_DN
GOBP_REGULATION_OF_CHEMOKINE_MEDIATED_SIGNALING_PATHWAY, GOBP_REGULATION_OF_CHEMOKINE_MEDIATED_SIGNALING_PATHWAY
BIOCARTA_PLC_PATHWAY, BIOCARTA_PLC_PATHWAY
GOBP_NEGATIVE_REGULATION_OF_CHROMATIN_BINDING, GOBP_NEGATIVE_REGULATION_OF_CHROMATIN_BINDING
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GOMF_SERINE_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_SERINE_TRANSMEMBRANE_TRANSPORTER_ACTIVITY

GOBP_NEGATIVE_REGULATION_OF_CARTILAGE_DEVELOPMENT, GOBP_NEGATIVE_REGULATION_OF_CARTILAGE_DEVELOPMENT

GOBP_CARDIAC_PACEMAKER_CELL_DIFFERENTIATION, GOBP_CARDIAC_PACEMAKER_CELL_DIFFERENTIATION

HP_ABNORMAL_PROTEIN_O_LINKED_GLYCOSYLATION, HP_ABNORMAL_PROTEIN_O_LINKED_GLYCOSYLATION

GOBP_SPHINGOLIPID_MEDIATED_SIGNALING_PATHWAY, GOBP_SPHINGOLIPID_MEDIATED_SIGNALING_PATHWAY

GOMF_TRANSFORMING_GROWTH_FACTOR_BETA_BINDING, GOMF_TRANSFORMING_GROWTH_FACTOR_BETA_BINDING

GOMF_L_SERINE_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_L_SERINE_TRANSMEMBRANE_TRANSPORTER_ACTIVITY

CHEOK_RESPONSE_TO_MERCAPTOPURINE_AND_HD_MTX_UP, CHEOK_RESPONSE_TO_MERCAPTOPURINE_AND_HD_MTX_UP

GOBP_CARDIAC_CONDUCTION_SYSTEM_DEVELOPMENT, GOBP_CARDIAC_CONDUCTION_SYSTEM_DEVELOPMENT HP_ABNORMALITY_OF_BLOOD_VOLUME_HOMEOSTASIS, HP_ABNORMALITY_OF_BLOOD_VOLUME_HOMEOSTASIS

MAGRANGEAS_MULTIPLE_MYELOMA_IGLL_VS_IGLK_DN, MAGRANGEAS_MULTIPLE_MYELOMA_IGLL_VS_IGLK_DN

GOMF_AMP_ACTIVATED_PROTEIN_KINASE_ACTIVITY, GOMF_AMP_ACTIVATED_PROTEIN_KINASE_ACTIVITY

GOBP_TRACHEA_CARTILAGE_DEVELOPMENT, GOBP_TRACHEA_CARTILAGE_DEVELOPMENT

REACTOME_PI3K_EVENTS_IN_ERBB4_SIGNALING, REACTOME_PI3K_EVENTS_IN_ERBB4_SIGNALING

GOBP_NATURAL_KILLER_CELL_CHEMOTAXIS, GOBP_NATURAL_KILLER_CELL_CHEMOTAXIS

MIKKELSEN_DEDIFFERENTIATED_STATE_DN, MIKKELSEN_DEDIFFERENTIATED_STATE_DN

HP_LOW_MOLECULAR_WEIGHT_PROTEINURIA, HP_LOW_MOLECULAR_WEIGHT_PROTEINURIA

HP_ANGIOID_STREAKS_OF_THE_FUNDUS, HP_ANGIOID_STREAKS_OF_THE_FUNDUS

HP_WIDELY_SPACED_PRIMARY_TEETH, HP_WIDELY_SPACED_PRIMARY_TEETH

HP_SPONTANEOUS_PAIN_SENSATION, HP_SPONTANEOUS_PAIN_SENSATION

GOBP_PROTEIN_DESUMOYLATION, GOBP_PROTEIN_DESUMOYLATION

GOCC_VCP_NPL4_UFD1_AAA_ATPASE_COMPLEX, GOCC_VCP_NPL4_UFD1_AAA_ATPASE_COMPLEX

GOBP_RESPONSE_TO_HYDROSTATIC_PRESSURE, GOBP_RESPONSE_TO_HYDROSTATIC_PRESSURE

GOBP_CORONARY_ARTERY_MORPHOGENESIS, GOBP_CORONARY_ARTERY_MORPHOGENESIS

GOMF_SUMO_SPECIFIC_PROTEASE_ACTIVITY, GOMF_SUMO_SPECIFIC_PROTEASE_ACTIVITY

GOBP_SKELETAL_MUSCLE_CELL_DIFFERENTIATION, GOBP_SKELETAL_MUSCLE_CELL_DIFFERENTIATION

GOBP_REGULATION_OF_BMP_SIGNALING_PATHWAY, GOBP_REGULATION_OF_BMP_SIGNALING_PATHWAY

BIOCARTA_TGFB_PATHWAY, BIOCARTA_TGFB_PATHWAY

GOCC_GATOR1_COMPLEX, GOCC_GATOR1_COMPLEX

BIOCARTA ECM PATHWAY, BIOCARTA ECM PATHWAY

BIOCARTA_ERK5_PATHWAY, BIOCARTA_ERK5_PATHWAY

GOBP_L_SERINE_TRANSPORT, GOBP_L_SERINE_TRANSPORT

HP_INSIDIOUS_ONSET, HP_INSIDIOUS_ONSET

HP_DYSGERMINOMA, HP_DYSGERMINOMA

HP_RACHITIC_ROSARY, HP_RACHITIC_ROSARY

HP_HEMIHYPERTROPHY, HP_HEMIHYPERTROPHY

MODULE 500, MODULE 500

GOBP_LIPID_DROPLET_FORMATION, GOBP_LIPID_DROPLET_FORMATION

HP_SEVERE_B_LYMPHOCYTOPENIA, HP_SEVERE_B_LYMPHOCYTOPENIA

GOBP_COBALAMIN_TRANSPORT, GOBP_COBALAMIN_TRANSPORT

chr12q23, chr12q23

MIR1322, MIR1322

GOBP_NEGATIVE_REGULATION_OF_CHEMOKINE_MEDIATED_SIGNALING_PATHWAY, GOBP_NEGATIVE_REGULATION_OF_CHEMOKINE_MEDIATED_SIGNALING_PATHWAY

GOMF_SULFUR_AMINO_ACID_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_SULFUR_AMINO_ACID_TRANSMEMBRANE_TRANSPORTER_ACTIVITY

REACTOME_CONSTITUTIVE_SIGNALING_BY_ABERRANT_PI3K_IN_CANCER, REACTOME_CONSTITUTIVE_SIGNALING_BY_ABERRANT_PI3K_IN_CANCER

GOBP_NEUTROPHIL_MEDIATED_KILLING_OF_GRAM_NEGATIVE_BACTERIUM, GOBP_NEUTROPHIL_MEDIATED_KILLING_OF_GRAM_NEGATIVE_BACTERIUM

GOBP_POSITIVE_REGULATION_OF_PROTEIN_LOCALIZATION_TO_CILIUM, GOBP_POSITIVE_REGULATION_OF_PROTEIN_LOCALIZATION_TO_CILIUM

GOMF_TYPE_II_TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_BINDING, GOMF_TYPE_II_TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_BINDING

MATSUMIYA_PBMC_MODIFIED_VACCINIA_ANKARA_VACCINE_AGE_18_55YO_LOW_VS_HIGH_RESPONDERS_2DY_GO_T_CELL_ACTIV_AND_CO_STIM_UP, MATSUMIYA_PBMC_MODIFIED_VACCINIA_ACTIV_AND_CO_STIM_UP, MATSUMIYA_PBMC_MODIFIED_VACCINIA_ACTIV_AND_CO_STIM_UP, MATSUMIYA_

GOMF_1_PHOSPHATIDYLINOSITOL_4_PHOSPHATE_3_KINASE_ACTIVITY, GOMF_1_PHOSPHATIDYLINOSITOL_4_PHOSPHATE_3_KINASE_ACTIVITY