```
GSE21033_CTRL_VS_POLYIC_STIM_DC_3H_UP, GSE21033_CTRL_VS_POLYIC_STIM_DC_3H_UP
                                                                                                        GSE37301_COMMON_LYMPHOID_PROGENITOR_VS_CD4_TCELL_DN, GSE37301_COMMON_LYMPHOID_PROGENITOR_VS_CD4_TCELL_DN
                                                                                                        GSE22527_ANTI_CD3_INVIVO_VS_UNTREATED_MOUSE_TREG_DN, GSE22527_ANTI_CD3_INVIVO_VS_UNTREATED_MOUSE_TREG_DN
                                                                                                        GSE22033_UNTREATED_VS_MRL24_TREATED_MEF_UP, GSE22033_UNTREATED_VS_MRL24_TREATED_MEF_UP
                                                                                                        GSE37301_LYMPHOID_PRIMED_MPP_VS_CD4_TCELL_DN, GSE37301_LYMPHOID_PRIMED_MPP_VS_CD4_TCELL_DN
                                                                                                        GSE20152_SPHK1_KO_VS_HTNFA_OVEREXPRESS_ANKLE_DN, GSE20152_SPHK1_KO_VS_HTNFA_OVEREXPRESS_ANKLE_DN
                                                                                                        GSE19401_RETINOIC_ACID_VS_RETINOIC_ACID_AND_PAM2CSK4_STIM_FOLLICULAR_DC_DN, GSE19401_RETINOIC_ACID_VS_RETINOIC_ACID_AND_PAM2CSK4_STIM_FOLLICULAR_DC_DN
                                                                                                        GSE360_DC_VS_MAC_UP, GSE360_DC_VS_MAC_UP
                                                                                                        GSE15733_BM_VS_SPLEEN_MEMORY_CD4_TCELL_DN, GSE15733_BM_VS_SPLEEN_MEMORY_CD4_TCELL_DN
                                                                                                        GSE3982_DC_VS_BASOPHIL_DN, GSE3982_DC_VS_BASOPHIL_DN
                                                                                                        GSE3982_MAST_CELL_VS_DC_UP, GSE3982_MAST_CELL_VS_DC_UP
                                                                                                        GSE15930_STIM_VS_STIM_AND_TRICHOSTATINA_24H_CD8_T_CELL_DN, GSE15930_STIM_VS_STIM_AND_TRICHOSTATINA_24H_CD8_T_CELL_DN
                                                                                                       GSE3982_BCELL_VS_BASOPHIL_UP, GSE3982_BCELL_VS_BASOPHIL_UP
                                                                                                        HP_SINGLE_TRANSVERSE_PALMAR_CREASE, HP_SINGLE_TRANSVERSE_PALMAR_CREASE
                                                                                                        GTGCCAT_MIR183, GTGCCAT_MIR183
                                                                                                        MIR3154, MIR3154
                                                                                                        PELLICCIOTTA_HDAC_IN_ANTIGEN_PRESENTATION_UP, PELLICCIOTTA_HDAC_IN_ANTIGEN_PRESENTATION_UP
                                                                                                        GSE3982_MAC_VS_NKCELL_DN, GSE3982_MAC_VS_NKCELL_DN
                                                                                                        MIR4704_3P, MIR4704_3P
                                                                                                        MIR556_3P, MIR556_3P
                                                                                                        GSE43955_1H_VS_42H_ACT_CD4_TCELL_WITH_TGFB_IL6_DN, GSE43955_1H_VS_42H_ACT_CD4_TCELL_WITH_TGFB_IL6_DN
                                                                                                        MIR196A 5P MIR196B 5P, MIR196A 5P MIR196B 5P
                                                                                                        TGFB_UP.V1_DN, TGFB_UP.V1_DN
                                                                                                        REACTOME_DNA_DOUBLE_STRAND_BREAK_RESPONSE, REACTOME_DNA_DOUBLE_STRAND_BREAK_RESPONSE
                                                                                                        MIR96_3P, MIR96_3P
                                                                                                       EIF4E_UP, EIF4E_UP
                                                                                                        MIR4708_3P, MIR4708_3P
                                                                                                        MIR584_3P, MIR584_3P
                                                                                                        MIR4314, MIR4314
                                                                                                        HP_LONG_EYELASHES, HP_LONG_EYELASHES
                                                                                                        GSE3982_DC_VS_NKCELL_DN, GSE3982_DC_VS_NKCELL_DN
                                                                                                        REACTOME_ACTIVATION_OF_ANTERIOR_HOX_GENES_IN_HINDBRAIN_DEVELOPMENT_DURING_EARLY_EMBRYOGENESIS, REACTOME_ACTIVATION_OF_ANTERIOR_HOX_GENES_IN_HINDBRAIN_DEVELOPMEN
                                                                                                        MIR589_5P, MIR589_5P
                                                                                                        HP_ABNORMALITY_OF_MALE_INTERNAL_GENITALIA, HP_ABNORMALITY_OF_MALE_INTERNAL_GENITALIA
                                                                                                        GOBP_DNA_MODIFICATION, GOBP_DNA_MODIFICATION
                                                                                                        LINDGREN_BLADDER_CANCER_HIGH_RECURRENCE, LINDGREN_BLADDER_CANCER_HIGH_RECURRENCE
                                                                                                        HP_POSTERIOR_EMBRYOTOXON, HP_POSTERIOR_EMBRYOTOXON
                                                                                                        MIR4289, MIR4289
                                                                                                        GOMF_HISTONE_LYSINE_N_METHYLTRANSFERASE_ACTIVITY, GOMF_HISTONE_LYSINE_N_METHYLTRANSFERASE_ACTIVITY
                                                                                                        GOMF MRNA 3 UTR AU RICH REGION BINDING, GOMF MRNA 3 UTR AU RICH REGION BINDING
                                                                                                       WP_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_IN_COLORECTAL_CANCER, WP_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_IN_COLORECTAL_CANCER -
Γ_HTNFA_OVERXPRESS_ANKLE_DN, GSE20152_SPHK1_KO_VS_WT_HTNFA_OVERXPRESS_ANKLE_DN
                                                                                                        GOBP_DNA_METHYLATION_OR_DEMETHYLATION, GOBP_DNA_METHYLATION_OR_DEMETHYLATION
                                                                                                        GOBP DNA METHYLATION, GOBP DNA METHYLATION
                                                                                                        HP_MICRODONTIA, HP_MICRODONTIA
                                                                                                        CHEN_HOXA5_TARGETS_9HR_DN, CHEN_HOXA5_TARGETS_9HR_DN
                                                                                                        REACTOME_G_ALPHA_12_13_SIGNALLING_EVENTS, REACTOME_G_ALPHA_12_13_SIGNALLING_EVENTS
                                                                                                        HP_HODGKIN_LYMPHOMA, HP_HODGKIN_LYMPHOMA
                                                                                                        GOMF PHOSPHATIDYLINOSITOL 4 PHOSPHATE BINDING, GOMF PHOSPHATIDYLINOSITOL 4 PHOSPHATE BINDING
                                                                                                        MIR7151_5P, MIR7151_5P
                                                                                                        GSE28237_EARLY_VS_LATE_GC_BCELL_UP, GSE28237_EARLY_VS_LATE_GC_BCELL_UP
                                                                                                        ZNF433_TARGET_GENES, ZNF433_TARGET_GENES
                                                                                                        GOBP_HISTONE_H3_K27_METHYLATION, GOBP_HISTONE_H3_K27_METHYLATION
                                                                                                        MIR7108_5P, MIR7108_5P
                                                                                                        MORF FRK, MORF FRK
                                                                                                        REACTOME BIOSYNTHESIS OF SPECIALIZED PRORESOLVING MEDIATORS SPMS, REACTOME BIOSYNTHESIS OF SPECIALIZED PRORESOLVING MEDIATORS SPMS
                                                                                                        GOBP_POSITIVE_REGULATION_OF_POSTTRANSCRIPTIONAL_GENE_SILENCING, GOBP_POSITIVE_REGULATION_OF_POSTTRANSCRIPTIONAL_GENE_SILENCING
                                                                                                        MIR9903, MIR9903
                                                                                                        HP_SKIN_EROSION, HP_SKIN_EROSION
                                                                                                        TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_TOP20_UP, TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_TOP20_UP
                                                                                                        HMCES_TARGET_GENES, HMCES_TARGET_GENES
                                                                                                        CLIMENT_BREAST_CANCER_COPY_NUMBER_UP, CLIMENT_BREAST_CANCER_COPY_NUMBER_UP
                                                                                                        GOBP_METHIONINE_BIOSYNTHETIC_PROCESS, GOBP_METHIONINE_BIOSYNTHETIC_PROCESS
                                                                                                        NELSON_RESPONSE_TO_ANDROGEN_DN, NELSON_RESPONSE_TO_ANDROGEN_DN
                                                                                                        HP_PULMONARY_HEMORRHAGE, HP_PULMONARY_HEMORRHAGE
                                                                                                        GOBP_RESPONSE_TO_UV_C, GOBP_RESPONSE_TO_UV_C
                                                                                                        HP_EPENDYMOMA, HP_EPENDYMOMA
                                                                                                        GAZIN_EPIGENETIC_SILENCING_BY_KRAS, GAZIN_EPIGENETIC_SILENCING_BY_KRAS
                                                                                                        GOBP_PROTEIN_O_LINKED_MANNOSYLATION, GOBP_PROTEIN_O_LINKED_MANNOSYLATION
                                                                                                        GOBP_NEGATIVE_REGULATION_OF_POSTTRANSCRIPTIONAL_GENE_SILENCING, GOBP_NEGATIVE_REGULATION_OF_POSTTRANSCRIPTIONAL_GENE_SILENCING
                                                                                                        MIR548AD_3P, MIR548AD_3P
                                                                                                        GU_PDEF_TARGETS_DN, GU_PDEF_TARGETS_DN
                                                                                                        MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_25, MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_25
                                                                                                        GOMF_NMDA_GLUTAMATE_RECEPTOR_ACTIVITY, GOMF_NMDA_GLUTAMATE_RECEPTOR_ACTIVITY
                                                                                                        HP_ABNORMALLY_LOW_PITCHED_VOICE, HP_ABNORMALLY_LOW_PITCHED_VOICE
                                                                                                        GOMF_IRON_ION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_IRON_ION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY
                                                                                                        MIR4640_3P, MIR4640_3P
                                                                                                        GOBP_REGULATION_OF_LIPID_STORAGE, GOBP_REGULATION_OF_LIPID_STORAGE
                                                                                                        JIANG_TIP30_TARGETS_DN, JIANG_TIP30_TARGETS_DN
                                                                                                        GOMF_GLUTAMATE_GATED_CALCIUM_ION_CHANNEL_ACTIVITY, GOMF_GLUTAMATE_GATED_CALCIUM_ION_CHANNEL_ACTIVITY
                                                                                                        FOURNIER_ACINAR_DEVELOPMENT_EARLY_UP, FOURNIER_ACINAR_DEVELOPMENT_EARLY_UP
                                                                                                        HP_ABNORMAL_PLATELET_MORPHOLOGY, HP_ABNORMAL_PLATELET_MORPHOLOGY
                                                                                                        ABE_VEGFA_TARGETS_2HR, ABE_VEGFA_TARGETS_2HR
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GSE21033\_CTRL\_VS\_POLYIC\_STIM\_DC\_3H\_DN, GSE21033\_CTRL\_VS\_POLYIC\_STIM\_DC\_3H\_DN

GSE20500\_CTRL\_VS\_RARA\_ANTAGONIST\_TREATED\_CD4\_TCELL\_DN, GSE20500\_CTRL\_VS\_RARA\_ANTAGONIST\_TREATED\_CD4\_TCELL\_DN

GOMF\_PROTEIN\_BINDING\_INVOLVED\_IN\_HETEROTYPIC\_CELL\_CELL\_ADHESION, GOMF\_PROTEIN\_BINDING\_INVOLVED\_IN\_HETEROTYPIC\_CELL\_CELL\_ADHESION