```
GSE41867 DAY8 VS DAY15 LCMV_CLONE13 EFFECTOR_CD8 TCELL_UP, GSE41867 DAY8 VS DAY15 LCMV_CLONE13 EFFECTOR_CD8 TCELL_UP
 GSE13485 DAY3 VS DAY21 YF17D VACCINE PBMC UP, GSE13485 DAY3 VS DAY21 YF17D VACCINE PBMC UP
 GSE17974_1H_VS_72H_UNTREATED_IN_VITRO_CD4_TCELL_UP, GSE17974_1H_VS_72H_UNTREATED_IN_VITRO_CD4_TCELL_UP
 GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_72H_CD4_TCELL_UP, GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_72H_CD4_TCELL_UP
 GSE37416_CTRL_VS_12H_F_TULARENSIS_LVS_NEUTROPHIL_DN, GSE37416_CTRL_VS_12H_F_TULARENSIS_LVS_NEUTROPHIL_DN
 GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_NFATC1_KO_8H_UP, GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_NFATC1_KO_8H_UP
 GSE21063 WT VS NFATC1 KO 16H ANTI IGM STIM BCELL UP, GSE21063 WT VS NFATC1 KO 16H ANTI IGM STIM BCELL UP
 GSE17974_0H_VS_72H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_72H_IN_VITRO_ACT_CD4_TCELL_UP
 GSE17974_0H_VS_12H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_12H_IN_VITRO_ACT_CD4_TCELL_UP
 GSE17974_0.5H_VS_72H_IL4_AND_ANTI_IL12_ACT_CD4_TCELL_UP, GSE17974_0.5H_VS_72H_IL4_AND_ANTI_IL12_ACT_CD4_TCELL_UP
 GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_6H_CD4_TCELL_UP, GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_6H_CD4_TCELL_UP
 GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_48H_CD4_TCELL_UP, GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_48H_CD4_TCELL_UP
 GSE43863_DAY6_EFF_VS_DAY150_MEM_LY6C_INT_CXCR5POS_CD4_TCELL_UP, GSE43863_DAY6_EFF_VS_DAY150_MEM_LY6C_INT_CXCR5POS_CD4_TCELL_UP
 GSE17974_0.5H_VS_72H_UNTREATED_IN_VITRO_CD4_TCELL_UP, GSE17974_0.5H_VS_72H_UNTREATED_IN_VITRO_CD4_TCELL_UP
 GSE13485_DAY1_VS_DAY21_YF17D_VACCINE_PBMC_UP, GSE13485_DAY1_VS_DAY21_YF17D_VACCINE_PBMC_UP
 GSE17974_0H_VS_24H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_24H_IN_VITRO_ACT_CD4_TCELL_UP
 GSE17974_0H_VS_48H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_48H_IN_VITRO_ACT_CD4_TCELL_UP
 GSE17974_0H_VS_6H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_6H_IN_VITRO_ACT_CD4_TCELL_UP
 GSE29617_CTRL_VS_TIV_FLU_VACCINE_PBMC_2008_UP, GSE29617_CTRL_VS_TIV_FLU_VACCINE_PBMC_2008_UP
 GSE21033_1H_VS_12H_POLYIC_STIM_DC_UP, GSE21033_1H_VS_12H_POLYIC_STIM_DC_UP
 GCACCTT_MIR18A_MIR18B, GCACCTT_MIR18A_MIR18B
 GSE17721_LPS_VS_GARDIQUIMOD_0.5H_BMDC_DN, GSE17721_LPS_VS_GARDIQUIMOD_0.5H_BMDC_DN
 GSE15324_NAIVE_VS_ACTIVATED_CD8_TCELL_UP, GSE15324_NAIVE_VS_ACTIVATED_CD8_TCELL_UP
 ACACTAC_MIR1423P, ACACTAC_MIR1423P
 GOBP LYSOSOMAL TRANSPORT, GOBP LYSOSOMAL TRANSPORT
 GSE43863_LY6C_INT_CXCR5POS_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_UP, GSE43863_LY6C_INT_CXCR5POS_TCELL_UP, GSE43865_TCELL_UP, GSE43865_TCELL_UP, GSE43865_TCELL_UP, GSE4386_TCELL_UP, GSE4386_TCELL_UP, GSE4386_TCELL_UP, GSE4386_TCELL_UP, GSE438_TCE
 CTCTGGA_MIR520A_MIR525, CTCTGGA_MIR520A_MIR525
 THAKAR_PBMC_INACTIVATED_INFLUENZA_AGE_21_30YO_NONRESPONDER_7DY_DN, THAKAR_PBMC_INACTIVATED_INFLUENZA_AGE_21_30YO_NONRESPO
 GOMF_CYSTEINE_TYPE_PEPTIDASE_ACTIVITY, GOMF_CYSTEINE_TYPE_PEPTIDASE_ACTIVITY
 GSE29615_CTRL_VS_DAY3_LAIV_IFLU_VACCINE_PBMC_UP, GSE29615_CTRL_VS_DAY3_LAIV_IFLU_VACCINE_PBMC_UP
 MIR578, MIR578
 GSE23925 LIGHT ZONE VS DARK ZONE BCELL UP, GSE23925 LIGHT ZONE VS DARK ZONE BCELL UP
 GSE23321_EFFECTOR_MEMORY_VS_NAIVE_CD8_TCELL_UP, GSE23321_EFFECTOR_MEMORY_VS_NAIVE_CD8_TCELL_UP
 MIR3652, MIR3652
 GSE360_CTRL_VS_L_DONOVANI_DC_DN, GSE360_CTRL_VS_L_DONOVANI_DC_DN
 MIR4430, MIR4430
 MIR3135B, MIR3135B
 MIR5703, MIR5703
 MIR4434, MIR4434
 GSE36476 CTRL VS TSST ACT 72H MEMORY CD4 TCELL OLD UP, GSE36476 CTRL VS TSST ACT 72H MEMORY CD4 TCELL OLD UP
 MIR4756_5P, MIR4756_5P
 MIR1321, MIR1321
 MIR4739, MIR4739
 GOBP_LIPOPROTEIN_METABOLIC_PROCESS, GOBP_LIPOPROTEIN_METABOLIC_PROCESS
 KIM GASTRIC CANCER CHEMOSENSITIVITY, KIM GASTRIC CANCER CHEMOSENSITIVITY
 GSE6092_CTRL_VS_BORRELIA_BIRGDOFERI_INF_ENDOTHELIAL_CELL_DN, GSE6092_CTRL_VS_BORRELIA_BIRGDOFERI_INF_ENDOTHELIAL_CELL_DN
 GOBP_LIPOPROTEIN_BIOSYNTHETIC_PROCESS, GOBP_LIPOPROTEIN_BIOSYNTHETIC_PROCESS
 MIR7515, MIR7515
 MIR3173_5P, MIR3173_5P
 CCAGGGG_MIR331, CCAGGGG_MIR331
 MIR6799 3P, MIR6799 3P
 WIERENGA_STAT5A_TARGETS_GROUP2, WIERENGA_STAT5A_TARGETS_GROUP2
 MIR378G, MIR378G
MIR6752_5P, MIR6752_5P
 CUI_DEVELOPING_HEART_VALVAR_ENDOTHELIAL_CELL, CUI_DEVELOPING_HEART_VALVAR_ENDOTHELIAL_CELL
 HP_TONIC_SEIZURE, HP_TONIC_SEIZURE
 MIR33B_3P, MIR33B_3P
 UZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THROMBIN, UZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THROMBIN
 MIR519E_3P, MIR519E_3P
 MIR660_5P, MIR660_5P
 MIR6778_5P, MIR6778_5P
 MIR4736, MIR4736
 WP_SIGNALING_OF_HEPATOCYTE_GROWTH_FACTOR_RECEPTOR, WP_SIGNALING_OF_HEPATOCYTE_GROWTH_FACTOR_RECEPTOR
 GSE28737_BCL6_HET_VS_BCL6_KO_MARGINAL_ZONE_BCELL_UP, GSE28737_BCL6_HET_VS_BCL6_KO_MARGINAL_ZONE_BCELL_UP
 MIR4487, MIR4487
 NAKAMURA_ADIPOGENESIS_EARLY_UP, NAKAMURA_ADIPOGENESIS_EARLY_UP
 GOMF_RECEPTOR_TYROSINE_KINASE_BINDING, GOMF_RECEPTOR_TYROSINE_KINASE_BINDING
 MIR6748_5P, MIR6748_5P
 MIR515_3P, MIR515_3P
 GOMF_SYNTAXIN_BINDING, GOMF_SYNTAXIN_BINDING
 HP_FATIGABLE_WEAKNESS_OF_RESPIRATORY_MUSCLES, HP_FATIGABLE_WEAKNESS_OF_RESPIRATORY_MUSCLES
 NME2_TARGET_GENES, NME2_TARGET_GENES
 MIR3191_3P, MIR3191_3P
 MIR3664_5P, MIR3664_5P
 PID_EPHB_FWD_PATHWAY, PID_EPHB_FWD_PATHWAY
 GOBP_VESICLE_DOCKING_INVOLVED_IN_EXOCYTOSIS, GOBP_VESICLE_DOCKING_INVOLVED_IN_EXOCYTOSIS
 GOMF_EPHRIN_RECEPTOR_BINDING, GOMF_EPHRIN_RECEPTOR_BINDING
 FOXD3_TARGET_GENES, FOXD3_TARGET_GENES
 GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN_UP, GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN_UP
 LEIN_MEDULLA_MARKERS, LEIN_MEDULLA_MARKERS
 NOUZOVA_METHYLATED_IN_APL, NOUZOVA_METHYLATED_IN_APL
 GOBP_REGULATION_OF_BMP_SIGNALING_PATHWAY, GOBP_REGULATION_OF_BMP_SIGNALING_PATHWAY
 GOBP_ACTIN_FILAMENT_BASED_TRANSPORT, GOBP_ACTIN_FILAMENT_BASED_TRANSPORT
 MIR92A_1_5P, MIR92A_1_5P
 PID_PTP1B_PATHWAY, PID_PTP1B_PATHWAY
 GOBP_NEGATIVE_REGULATION_OF_CELLULAR_RESPONSE_TO_GROWTH_FACTOR_STIMULUS, GOBP_NEGATIVE_REGULATION_OF_CELLULAR_RESPONSE_TO
 DING_LUNG_CANCER_MUTATED_FREQUENTLY, DING_LUNG_CANCER_MUTATED_FREQUENTLY
 WILSON PROTEASES AT TUMOR BONE INTERFACE UP, WILSON PROTEASES AT TUMOR BONE INTERFACE UP
 GOBP_NEGATIVE_REGULATION_OF_BMP_SIGNALING_PATHWAY, GOBP_NEGATIVE_REGULATION_OF_BMP_SIGNALING_PATHWAY
 GOBP_REGULATION_OF_SNARE_COMPLEX_ASSEMBLY, GOBP_REGULATION_OF_SNARE_COMPLEX_ASSEMBLY
GOBP_POSITIVE_REGULATION_OF_PROTEIN_EXIT_FROM_ENDOPLASMIC_RETICULUM, GOBP_POSITIVE_REGULATION_OF_PROTEIN_EXIT_FROM_ENDOPLASM
 GOCC_TOR_COMPLEX, GOCC_TOR_COMPLEX
 HOX13_01, HOX13_01
 MIR4790_5P, MIR4790_5P
 HP_DIABETES_INSIPIDUS, HP_DIABETES_INSIPIDUS
 GOBP_POSITIVE_REGULATION_OF_ACTIN_NUCLEATION, GOBP_POSITIVE_REGULATION_OF_ACTIN_NUCLEATION
HP_EPISODIC_ATAXIA, HP_EPISODIC_ATAXIA
 GOBP_REGULATION_OF_LYMPHOCYTE_MIGRATION, GOBP_REGULATION_OF_LYMPHOCYTE_MIGRATION
 GOMF_CAMP_RESPONSE_ELEMENT_BINDING_PROTEIN_BINDING, GOMF_CAMP_RESPONSE_ELEMENT_BINDING_PROTEIN_BINDING
 PID_PDGFRA_PATHWAY, PID_PDGFRA_PATHWAY
 REACTOME_RUNX3_REGULATES_YAP1_MEDIATED_TRANSCRIPTION, REACTOME_RUNX3_REGULATES_YAP1_MEDIATED_TRANSCRIPTION
 GOBP_ENTRY_OF_BACTERIUM_INTO_HOST_CELL, GOBP_ENTRY_OF_BACTERIUM_INTO_HOST_CELL
 GCM_TEC, GCM_TEC
 HP_SPONDYLOLYSIS, HP_SPONDYLOLYSIS
 HP_HYPOINSULINEMIA, HP_HYPOINSULINEMIA
 HP_MATURITY_ONSET_DIABETES_OF_THE_YOUNG, HP_MATURITY_ONSET_DIABETES_OF_THE_YOUNG
```

chr3p13, chr3p13

DAY21\_YF17D\_VACCINE\_PBMC\_UP, GSE13485\_CTRL\_VS\_DAY21\_YF17D\_VACCINE\_PBMC\_UP