```
REACTOME_HCMV_INFECTION, REACTOME_HCMV_INFECTION
                                                                                                                                  REACTOME_SUMOYLATION, REACTOME_SUMOYLATION
                                                                                                                                  REACTOME_HCMV_EARLY_EVENTS, REACTOME_HCMV_EARLY_EVENTS
                                                                                                                                  REACTOME_EPIGENETIC_REGULATION_OF_GENE_EXPRESSION, REACTOME_EPIGENETIC_REGULATION_OF_GENE_EXPRESSION
                                                                                                                                  REACTOME_NEGATIVE_EPIGENETIC_REGULATION_OF_RRNA_EXPRESSION, REACTOME_NEGATIVE_EPIGENETIC_REGULATION_OF_RRNA_EXPRESSION
                                                                                                                                  REACTOME HDACS DEACETYLATE HISTONES, REACTOME HDACS DEACETYLATE HISTONES
                                                                                                                                 REACTOME_NONHOMOLOGOUS_END_JOINING_NHEJ, REACTOME_NONHOMOLOGOUS_END_JOINING_NHEJ
                                                                                                                                 REACTOME_UCH_PROTEINASES, REACTOME_UCH_PROTEINASES
                                                                                                                                 REACTOME_DNA_DOUBLE_STRAND_BREAK_RESPONSE, REACTOME_DNA_DOUBLE_STRAND_BREAK_RESPONSE
                                                                                                                                 REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION, REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION
                                                                                                                                 REACTOME RUNX1 REGULATES TRANSCRIPTION OF GENES INVOLVED IN DIFFERENTIATION OF HSCS, REACTOME RUNX1 REGULATES TRANSCRIPTION OF GENES INVOLVED IN DIFFERENTIATION OF HSCS
                                                                                                                                 REACTOME POSITIVE EPIGENETIC REGULATION OF RRNA EXPRESSION, REACTOME POSITIVE EPIGENETIC REGULATION OF RRNA EXPRESSION
                                                                                                                                 REACTOME_PROTEIN_UBIQUITINATION, REACTOME_PROTEIN_UBIQUITINATION
                                                                                                                                 REACTOME_PRC2_METHYLATES_HISTONES_AND_DNA, REACTOME_PRC2_METHYLATES_HISTONES_AND_DNA
                                                                                                                                 REACTOME_RNA_POLYMERASE_I_PROMOTER_ESCAPE, REACTOME_RNA_POLYMERASE_I_PROMOTER_ESCAPE
                                                                                                                                  REACTOME_ERCC6_CSB_AND_EHMT2_G9A_POSITIVELY_REGULATE_RRNA_EXPRESSION, REACTOME_ERCC6_CSB_AND_EHMT2_G9A_POSITIVELY_REGULATE_RRNA_EXPRESSION
                                                                                                                                  REACTOME_OXIDATIVE_STRESS_INDUCED_SENESCENCE, REACTOME_OXIDATIVE_STRESS_INDUCED_SENESCENCE
                                                                                                                                  REACTOME_FORMATION_OF_THE_BETA_CATENIN_TCF_TRANSACTIVATING_COMPLEX, REACTOME_FORMATION_OF_THE_BETA_CATENIN_TCF_TRANSACTIVATING_COMPLEX
                                                                                                                                  REACTOME_SIRT1_NEGATIVELY_REGULATES_RRNA_EXPRESSION, REACTOME_SIRT1_NEGATIVELY_REGULATES_RRNA_EXPRESSION
                                                                                                                                  REACTOME_BASE_EXCISION_REPAIR, REACTOME_BASE_EXCISION_REPAIR
                                                                                                                                  REACTOME_RMTS_METHYLATE_HISTONE_ARGININES, REACTOME_RMTS_METHYLATE_HISTONE_ARGININES
                                                                                                                                  REACTOME DNA METHYLATION, REACTOME DNA METHYLATION
                                                                                                                                  REACTOME_ACTIVATED_PKN1_STIMULATES_TRANSCRIPTION_OF_AR_ANDROGEN_RECEPTOR_REGULATED_GENES_KLK2_AND_KLK3, REACTOME_ACTIVATED_PKN1_STIMULATES_TRANSCRIPTION_OF_AR_ANDROGEN_RECEPTOR_REGULATED_FKN1_STIMULATES_TRANSCRIPTION_OF_AR_ANDROGEN_RECEPTOR_REGULATED_FKN1_STIMULATES_TRANSCRIPTION_OF_AR_ANDROGEN_RECEPTOR_REGULATED_FKN1_STIMULATES_TRANSCRIPTION_OF_AR_ANDROGEN_RECEPTOR_REGULATED_FKN1_STIMULATES_TRANSCRIPTION_OF_AR_ANDROGEN_RECEPTOR_REGULATED_FKN1_STIMULATES_TRANSCRIPTION_OF_AR_ANDROGEN_RECEPTOR_REGULATED_FKN1_STIMULATES_TRANSCRIPTION_OF_AR_ANDROGEN_RECEPTOR_REGULATED_FKN1_STIMULATES_TRANSCRIPTION_FKN1_STIMULATES_TRANSCRIPTION_FKN1_STIMULATES_TRANSCRIPTION_FKN1_STIMULATES_TRANSCRIPTION_FKN1_STIMULATES_TRANSCRIPTION_FKN1_STIMULATES_TRANSCRIP
                                                                                                                                  REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION, REACTOME RUNX1 REGULATES GENES INVOLVED IN MEGAKARYOCYTE DIFFERENTIATION AND PLATELET FUNCTION FUNCTIO
                                                                                                                                  REACTOME_RHO_GTPASES_ACTIVATE_PKNS, REACTOME_RHO_GTPASES_ACTIVATE_PKNS
                                                                                                                                  REACTOME_E3_UBIQUITIN_LIGASES_UBIQUITINATE_TARGET_PROTEINS, REACTOME_E3_UBIQUITIN_LIGASES_UBIQUITINATE_TARGET_PROTEINS
                                                                                                                                  REACTOME_PRE_NOTCH_EXPRESSION_AND_PROCESSING, REACTOME_PRE_NOTCH_EXPRESSION_AND_PROCESSING
                                                                                                                                  PID_MYC_ACTIV_PATHWAY, PID_MYC_ACTIV_PATHWAY
                                                                                                                                  EPPERT_HSC_R, EPPERT_HSC_R
                                                                                                                                  REACTOME_RECOGNITION_AND_ASSOCIATION_OF_DNA_GLYCOSYLASE_WITH_SITE_CONTAINING_AN_AFFECTED_PURINE, REACTOME_RECOGNITION_AND_ASSOCIATION_OF_DNA_GLYCOSYLASE_WITH_SITE_CONTAINING_AN_ASSOCIATION_ASSOCIATION_OF_DNA_GLYCOSYLASE_WITH_SITE_CONTAINING_AN_ASSOCIATION_OF_DNA_GLYCOSYLASE_WITH_SITE_CONTAINING_AN_ASSOCIATION_OF_DNA_GLYCOSYLASE_WITH_SITE_CONTAINING_AN_ASSOCIATION_OF_DNA_GLYCOSYLASE_WITH_SITE_CONTAINING_AN_ASSOCIATION_OF_DNA_GLYCOSYLASE_WITH_SITE_CONTAINING_AND_TOWN.
                                                                                                                                  REACTOME_SIGNALING_BY_NOTCH4, REACTOME_SIGNALING_BY_NOTCH4
                                                                                                                                  REACTOME_MEIOTIC_SYNAPSIS, REACTOME_MEIOTIC_SYNAPSIS
                                                                                                                                  ACEVEDO_LIVER_CANCER_WITH_H3K9ME3_DN, ACEVEDO_LIVER_CANCER_WITH_H3K9ME3_DN
                                                                                                                                  PID_P53_REGULATION_PATHWAY, PID_P53_REGULATION_PATHWAY
                                                                                                                                  REACTOME_BASE_EXCISION_REPAIR_AP_SITE_FORMATION, REACTOME_BASE_EXCISION_REPAIR_AP_SITE_FORMATION
                                                                                                                                  REACTOME_HDMS_DEMETHYLATE_HISTONES, REACTOME_HDMS_DEMETHYLATE_HISTONES
                                                                                                                                  REACTOME_PKMTS_METHYLATE_HISTONE_LYSINES, REACTOME_PKMTS_METHYLATE_HISTONE_LYSINES
                                                                                                                                 REACTOME_AMYLOID_FIBER_FORMATION, REACTOME_AMYLOID_FIBER_FORMATION
ACETYLATE HISTONES, REACTOME HATS ACETYLATE HISTONES
                                                                                                                                  REACTOME_METALLOPROTEASE_DUBS, REACTOME_METALLOPROTEASE_DUBS
                                                                                                                                  REACTOME_ACTIVATION_OF_GENE_EXPRESSION_BY_SREBF_SREBP, REACTOME_ACTIVATION_OF_GENE_EXPRESSION_BY_SREBF_SREBP
                                                                                                                                  WP_PATHWAYS_AFFECTED_IN_ADENOID_CYSTIC_CARCINOMA, WP_PATHWAYS_AFFECTED_IN_ADENOID_CYSTIC_CARCINOMA
                                                                                                                                  REACTOME SUMOYLATION OF TRANSCRIPTION COFACTORS, REACTOME SUMOYLATION OF TRANSCRIPTION COFACTORS
                                                                                                                                  PID_MYC_PATHWAY, PID_MYC_PATHWAY
                                                                                                                                  REACTOME CIRCADIAN CLOCK, REACTOME CIRCADIAN CLOCK
                                                                                                                                  ZHAN_MULTIPLE_MYELOMA_UP, ZHAN_MULTIPLE_MYELOMA_UP
                                                                                                                                  WP_THE_EFFECT_OF_PROGERIN_ON_THE_INVOLVED_GENES_IN_HUTCHINSONGILFORD_PROGERIA_SYNDROME, WP_THE_EFFECT_OF_PROGERIN_ON_THE_INVOLVED_GENES_IN_HUTCHINSONGILFORD_PROGERIA_SYNDROME
                                                                                                                                  WP_HISTONE_MODIFICATIONS, WP_HISTONE_MODIFICATIONS
                                                                                                                                  KEGG_BASAL_TRANSCRIPTION_FACTORS, KEGG_BASAL_TRANSCRIPTION_FACTORS
                                                                                                                                  YAGI_AML_SURVIVAL, YAGI_AML_SURVIVAL
                                                                                                                                  LIANG_SILENCED_BY_METHYLATION_2, LIANG_SILENCED_BY_METHYLATION_2
                                                                                                                                  HASLINGER_B_CLL_WITH_6Q21_DELETION, HASLINGER_B_CLL_WITH_6Q21_DELETION
                                                                                                                                  PID_RB_1PATHWAY, PID_RB_1PATHWAY
                                                                                                                                  BENITEZ_GBM_PROTEASOME_INHIBITION_RESPONSE, BENITEZ_GBM_PROTEASOME_INHIBITION_RESPONSE
                                                                                                                                  GNATENKO_PLATELET_SIGNATURE, GNATENKO_PLATELET_SIGNATURE
                                                                                                                                  PID_SMAD2_3NUCLEAR_PATHWAY, PID_SMAD2_3NUCLEAR_PATHWAY
                                                                                                                                  LIANG_SILENCED_BY_METHYLATION_UP, LIANG_SILENCED_BY_METHYLATION_UP
                                                                                                                                  WP_GENOTOXICITY_PATHWAY, WP_GENOTOXICITY_PATHWAY
                                                                                                                                  PID_P53_DOWNSTREAM_PATHWAY, PID_P53_DOWNSTREAM_PATHWAY
                                                                                                                                  REACTOME_REGULATION_OF_LIPID_METABOLISM_BY_PPARALPHA, REACTOME_REGULATION_OF_LIPID_METABOLISM_BY_PPARALPHA
                                                                                                                                  REACTOME_NOTCH_HLH_TRANSCRIPTION_PATHWAY, REACTOME_NOTCH_HLH_TRANSCRIPTION_PATHWAY
                                                                                                                                  REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_ADIPOCYTE_DIFFERENTIATION, REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_ADIPOCYTE_DIFFERENTIATION
                                                                                                                                 WP_ANDROGEN_RECEPTOR_SIGNALING_PATHWAY, WP_ANDROGEN_RECEPTOR_SIGNALING_PATHWAY
                                                                                                                                 KOBAYASHI_EGFR_SIGNALING_24HR_UP, KOBAYASHI_EGFR_SIGNALING_24HR_UP
                                                                                                                                 NAGY_TFTC_COMPONENTS_HUMAN, NAGY_TFTC_COMPONENTS_HUMAN
                                                                                                                                 ROSS_AML_WITH_AML1_ETO_FUSION, ROSS_AML_WITH_AML1_ETO_FUSION
                                                                                                                                 WP_ENERGY_METABOLISM, WP_ENERGY_METABOLISM
                                                                                                                                 REACTOME_REGULATION_OF_TP53_ACTIVITY_THROUGH_ACETYLATION, REACTOME_REGULATION_OF_TP53_ACTIVITY_THROUGH_ACETYLATION
                                                                                                                                 GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_UP, GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_UP
                                                                                                                                 WP_HEMATOPOIETIC_STEM_CELL_GENE_REGULATION_BY_GABP_ALPHABETA_COMPLEX, WP_HEMATOPOIETIC_STEM_CELL_GENE_REGULATION_BY_GABP_ALPHABETA_COMPLEX
                                                                                                                                 BIOCARTA_PPARA_PATHWAY, BIOCARTA_PPARA_PATHWAY
                                                                                                                                 REACTOME_NOTCH4_INTRACELLULAR_DOMAIN_REGULATES_TRANSCRIPTION, REACTOME_NOTCH4_INTRACELLULAR_DOMAIN_REGULATES_TRANSCRIPTION
                                                                                                                                  DURCHDEWALD_SKIN_CARCINOGENESIS_UP, DURCHDEWALD_SKIN_CARCINOGENESIS_UP
                                                                                                                                  TURJANSKI_MAPK11_TARGETS, TURJANSKI_MAPK11_TARGETS
```

REACTOME_HCMV_LATE_EVENTS, REACTOME_HCMV_LATE_EVENTS

REACTOME_HEME_SIGNALING, REACTOME_HEME_SIGNALING

PID_HDAC_CLASSIII_PATHWAY, PID_HDAC_CLASSIII_PATHWAY