```
ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER, ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
                                                                                BOYAULT_LIVER_CANCER_SUBCLASS_G3_UP, BOYAULT_LIVER_CANCER_SUBCLASS_G3_UP
                                                                                REACTOME_S_PHASE, REACTOME_S_PHASE
                                                                                WHITFIELD_CELL_CYCLE_G2, WHITFIELD_CELL_CYCLE_G2
                                                                                WINNEPENNINCKX_MELANOMA_METASTASIS_UP, WINNEPENNINCKX_MELANOMA_METASTASIS_UP
                                                                                REACTOME_DNA_REPLICATION, REACTOME_DNA_REPLICATION
                                                                                REACTOME_SEPARATION_OF_SISTER_CHROMATIDS, REACTOME_SEPARATION_OF_SISTER_CHROMATIDS
                                                                                CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_DN, CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_DN
                                                                                HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP, HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP
                                                                                REACTOME_G2_M_CHECKPOINTS, REACTOME_G2_M_CHECKPOINTS
                                                                                REACTOME_SWITCHING_OF_ORIGINS_TO_A_POST_REPLICATIVE_STATE, REACTOME_SWITCHING_OF_ORIGINS_TO_A_POST_REPLICATIVE_STATE
                                                                                WHITFIELD_CELL_CYCLE_G2_M, WHITFIELD_CELL_CYCLE_G2_M
                                                                                ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR, ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
                                                                                REACTOME_APC_C_MEDIATED_DEGRADATION_OF_CELL_CYCLE_PROTEINS, REACTOME_APC_C_MEDIATED_DEGRADATION_OF_CELL_CYCLE_PROTEINS
                                                                                BENPORATH_PROLIFERATION, BENPORATH_PROLIFERATION
                                                                                KONG_E2F3_TARGETS, KONG_E2F3_TARGETS
                                                                                FLORIO_NEOCORTEX_BASAL_RADIAL_GLIA_DN, FLORIO_NEOCORTEX_BASAL_RADIAL_GLIA_DN
                                                                                REACTOME_MITOTIC_SPINDLE_CHECKPOINT, REACTOME_MITOTIC_SPINDLE_CHECKPOINT
                                                                                REACTOME_DNA_REPLICATION_PRE_INITIATION, REACTOME_DNA_REPLICATION_PRE_INITIATION
                                                                                REACTOME_MITOTIC_G1_PHASE_AND_G1_S_TRANSITION, REACTOME_MITOTIC_G1_PHASE_AND_G1_S_TRANSITION
                                                                                BURTON_ADIPOGENESIS_3, BURTON_ADIPOGENESIS_3
                                                                                REACTOME_MITOTIC_G2_G2_M_PHASES, REACTOME_MITOTIC_G2_G2_M_PHASES
                                                                                REACTOME_ASSEMBLY_OF_THE_PRE_REPLICATIVE_COMPLEX, REACTOME_ASSEMBLY_OF_THE_PRE_REPLICATIVE_COMPLEX
                                                                                ZHAN_MULTIPLE_MYELOMA_PR_UP, ZHAN_MULTIPLE_MYELOMA_PR_UP
                                                                                REACTOME_APC_C_CDH1_MEDIATED_DEGRADATION_OF_CDC20_AND_OTHER_APC_C_CDH1_TARGETED_PROTEINS_IN_LATE_MITOSIS_EARLY_G1, REACTOME_APC_C_CDH1_MEDIATED_DEGRADATION_OF_CDC20_AND_OTHER_APC_C_CDH1_TARGETED_PROTEINS_IN_LATE_MITOSIS_EARLY_G1
                                                                                FUJII_YBX1_TARGETS_DN, FUJII_YBX1_TARGETS_DN
                                                                                MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_DN, MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_DN
                                                                                MORI_IMMATURE_B_LYMPHOCYTE_DN, MORI_IMMATURE_B_LYMPHOCYTE_DN
                                                                                REACTOME_AURKA_ACTIVATION_BY_TPX2, REACTOME_AURKA_ACTIVATION_BY_TPX2
                                                                                CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP, CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
                                                                                REACTOME_ORC1_REMOVAL_FROM_CHROMATIN, REACTOME_ORC1_REMOVAL_FROM_CHROMATIN
                                                                                REACTOME_MITOTIC_PROPHASE, REACTOME_MITOTIC_PROPHASE
                                                                                MORI_LARGE_PRE_BII_LYMPHOCYTE_UP, MORI_LARGE_PRE_BII_LYMPHOCYTE_UP
                                                                                BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_UP, BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_UP
                                                                                REACTOME_CYCLIN_A_CDK2_ASSOCIATED_EVENTS_AT_S_PHASE_ENTRY, REACTOME_CYCLIN_A_CDK2_ASSOCIATED_EVENTS_AT_S_PHASE_ENTRY
                                                                                REACTOME_HOMOLOGY_DIRECTED_REPAIR, REACTOME_HOMOLOGY_DIRECTED_REPAIR
                                                                                REACTOME_DNA_DOUBLE_STRAND_BREAK_REPAIR, REACTOME_DNA_DOUBLE_STRAND_BREAK_REPAIR
                                                                                REACTOME_CELLULAR_SENESCENCE, REACTOME_CELLULAR_SENESCENCE
                                                                                CROONQUIST_IL6_DEPRIVATION_DN, CROONQUIST_IL6_DEPRIVATION_DN
                                                                                SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP, SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP
                                                                                REACTOME_RESOLUTION_OF_SISTER_CHROMATID_COHESION, REACTOME_RESOLUTION_OF_SISTER_CHROMATID_COHESION
                                                                                WELCSH_BRCA1_TARGETS_UP, WELCSH_BRCA1_TARGETS_UP
                                                                                CROONQUIST_NRAS_SIGNALING_DN, CROONQUIST_NRAS_SIGNALING_DN
                                                                                REACTOME RHO GTPASES ACTIVATE FORMINS, REACTOME RHO GTPASES ACTIVATE FORMINS
                                                                                PUJANA_BREAST_CANCER_LIT_INT_NETWORK, PUJANA_BREAST_CANCER_LIT_INT_NETWORK
                                                                                KEGG_CELL_CYCLE, KEGG_CELL_CYCLE
                                                                                TANG_SENESCENCE_TP53_TARGETS_DN, TANG_SENESCENCE_TP53_TARGETS_DN
                                                                                DITTMER_PTHLH_TARGETS_UP, DITTMER_PTHLH_TARGETS_UP
                                                                                ALONSO_METASTASIS_UP, ALONSO_METASTASIS_UP
                                                                                GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP, GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
                                                                                GAVIN_FOXP3_TARGETS_CLUSTER_P6, GAVIN_FOXP3_TARGETS_CLUSTER_P6
                                                                                ZHOU CELL CYCLE GENES IN IR RESPONSE 6HR, ZHOU CELL CYCLE GENES IN IR RESPONSE 6HR
                                                                                MATTIOLI_MGUS_VS_PCL, MATTIOLI_MGUS_VS_PCL
                                                                                REACTOME_REGULATION_OF_PLK1_ACTIVITY_AT_G2_M_TRANSITION, REACTOME_REGULATION_OF_PLK1_ACTIVITY_AT_G2_M_TRANSITION
                                                                                WHITFIELD_CELL_CYCLE_S, WHITFIELD_CELL_CYCLE_S
                                                                                LEE_EARLY_T_LYMPHOCYTE_UP, LEE_EARLY_T_LYMPHOCYTE_UP
                                                                                REACTOME_SUMOYLATION_OF_DNA_REPLICATION_PROTEINS, REACTOME_SUMOYLATION_OF_DNA_REPLICATION_PROTEINS
                                                                                GREENBAUM_E2A_TARGETS_UP, GREENBAUM_E2A_TARGETS_UP
                                                                                WHITEFORD_PEDIATRIC_CANCER_MARKERS, WHITEFORD_PEDIATRIC_CANCER_MARKERS
                                                                                GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN, GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN
                                                                                LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_DN, LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_DN
                                                                                SMIRNOV_RESPONSE_TO_IR_6HR_DN, SMIRNOV_RESPONSE_TO_IR_6HR_DN
                                                                                KAUFFMANN_MELANOMA_RELAPSE_UP, KAUFFMANN_MELANOMA_RELAPSE_UP
                                                                                RHODES_UNDIFFERENTIATED_CANCER, RHODES_UNDIFFERENTIATED_CANCER
                                                                                REACTOME_SCF_SKP2_MEDIATED_DEGRADATION_OF_P27_P21, REACTOME_SCF_SKP2_MEDIATED_DEGRADATION_OF_P27_P21
                                                                                KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS, KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS
                                                                                NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_UP, NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_UP
                                                                                REACTOME_SENESCENCE_ASSOCIATED_SECRETORY_PHENOTYPE_SASP, REACTOME_SENESCENCE_ASSOCIATED_SECRETORY_PHENOTYPE_SASP
                                                                                KANG_DOXORUBICIN_RESISTANCE_UP, KANG_DOXORUBICIN_RESISTANCE_UP
                                                                                HOLLMANN_APOPTOSIS_VIA_CD40_UP, HOLLMANN_APOPTOSIS_VIA_CD40_UP
                                                                                PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP, PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP
                                                                                SONG_TARGETS_OF_IE86_CMV_PROTEIN, SONG_TARGETS_OF_IE86_CMV_PROTEIN
                                                                                WAKASUGI_HAVE_ZNF143_BINDING_SITES, WAKASUGI_HAVE_ZNF143_BINDING_SITES
                                                                                REACTOME_RUNX1_REGULATES_TRANSCRIPTION_OF_GENES_INVOLVED_IN_DIFFERENTIATION_OF_HSCS, REACTOME_RUNX1_REGULATES_TRANSCRIPTION_OF_GENES_INVOLVED_IN_DIFFERENTIATION_OF_HSCS
                                                                                REICHERT_MITOSIS_LIN9_TARGETS, REICHERT_MITOSIS_LIN9_TARGETS
                                                                                PUIFFE_INVASION_INHIBITED_BY_ASCITES_UP, PUIFFE_INVASION_INHIBITED_BY_ASCITES_UP
                                                                                DAZARD_UV_RESPONSE_CLUSTER_G6, DAZARD_UV_RESPONSE_CLUSTER_G6
                                                                                MMS_MOUSE_LYMPH_HIGH_4HRS_UP, MMS_MOUSE_LYMPH_HIGH_4HRS_UP
                                                                                CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_UP, CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_UP
                                                                                REACTOME_ACTIVATION_OF_ATR_IN_RESPONSE_TO_REPLICATION_STRESS, REACTOME_ACTIVATION_OF_ATR_IN_RESPONSE_TO_REPLICATION_STRESS
                                                                                NAKAMURA CANCER MICROENVIRONMENT DN, NAKAMURA CANCER MICROENVIRONMENT DN
                                                                                PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP, PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP
                                                                                WHITFIELD_CELL_CYCLE_G1_S, WHITFIELD_CELL_CYCLE_G1_S
                                                                                SASAKI_ADULT_T_CELL_LEUKEMIA, SASAKI_ADULT_T_CELL_LEUKEMIA
                                                                                REACTOME_G1_S_DNA_DAMAGE_CHECKPOINTS, REACTOME_G1_S_DNA_DAMAGE_CHECKPOINTS
                                                                                REACTOME_APC_CDC20_MEDIATED_DEGRADATION_OF_NEK2A, REACTOME_APC_CDC20_MEDIATED_DEGRADATION_OF_NEK2A
                                                                                PID_PLK1_PATHWAY, PID_PLK1_PATHWAY
                                                                                LE_EGR2_TARGETS_UP, LE_EGR2_TARGETS_UP
                                                                                SHEPARD_CRUSH_AND_BURN_MUTANT_DN, SHEPARD_CRUSH_AND_BURN_MUTANT_DN
                                                                                REACTOME_PROCESSING_OF_DNA_DOUBLE_STRAND_BREAK_ENDS, REACTOME_PROCESSING_OF_DNA_DOUBLE_STRAND_BREAK_ENDS
                                                                               MORI_PRE_BI_LYMPHOCYTE_UP, MORI_PRE_BI_LYMPHOCYTE_UP
                                                                                HU_GENOTOXIC_DAMAGE_4HR, HU_GENOTOXIC_DAMAGE_4HR
                                                                                KAUFFMANN_DNA_REPLICATION_GENES, KAUFFMANN_DNA_REPLICATION_GENES
                                                                                WONG_PROTEASOME_GENE_MODULE, WONG_PROTEASOME_GENE_MODULE
                                                                               REACTOME_REGULATION_OF_TP53_ACTIVITY, REACTOME_REGULATION_OF_TP53_ACTIVITY
                                                                                REACTOME_HCMV_EARLY_EVENTS, REACTOME_HCMV_EARLY_EVENTS
                                                                                SHIPP_DLBCL_VS_FOLLICULAR_LYMPHOMA_UP, SHIPP_DLBCL_VS_FOLLICULAR_LYMPHOMA_UP
                                                                               FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN, FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN
                                                                                YU_MYC_TARGETS_UP, YU_MYC_TARGETS_UP
                                                                                GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_DN, GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_DN
                                                                               ZAMORA_NOS2_TARGETS_UP, ZAMORA_NOS2_TARGETS_UP
                                                                                ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN, ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN
                                                                               ZHU_CMV_ALL_UP, ZHU_CMV_ALL_UP
                                                                                LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER_UP, LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER_UP
                                                                                FARMER BREAST CANCER CLUSTER 2, FARMER BREAST CANCER CLUSTER 2
                                                                                PID_ATM_PATHWAY, PID_ATM_PATHWAY
                                                                                KEGG_OOCYTE_MEIOSIS, KEGG_OOCYTE_MEIOSIS
                                                                                BURTON_ADIPOGENESIS_PEAK_AT_16HR, BURTON_ADIPOGENESIS_PEAK_AT_16HR
                                                                                PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_UP, PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_UP
                                                                                VILLANUEVA_LIVER_CANCER_KRT19_UP, VILLANUEVA_LIVER_CANCER_KRT19_UP
                                                                                JIANG_VHL_TARGETS, JIANG_VHL_TARGETS
                                                                                REACTOME_HDR_THROUGH_HOMOLOGOUS_RECOMBINATION_HRR, REACTOME_HDR_THROUGH_HOMOLOGOUS_RECOMBINATION_HRR
                                                                                REACTOME_ACTIVATION_OF_THE_PRE_REPLICATIVE_COMPLEX, REACTOME_ACTIVATION_OF_THE_PRE_REPLICATIVE_COMPLEX
                                                                                KAMMINGA_EZH2_TARGETS, KAMMINGA_EZH2_TARGETS
                                                                                REACTOME_REGULATION_OF_TP53_ACTIVITY_THROUGH_PHOSPHORYLATION, REACTOME_REGULATION_OF_TP53_ACTIVITY_THROUGH_PHOSPHORYLATION
                                                                                BROWNE_HCMV_INFECTION_14HR_UP, BROWNE_HCMV_INFECTION_14HR_UP
                                                                                REACTOME_CONDENSATION_OF_PROPHASE_CHROMOSOMES, REACTOME_CONDENSATION_OF_PROPHASE_CHROMOSOMES
                                                                                MORI_MATURE_B_LYMPHOCYTE_DN, MORI_MATURE_B_LYMPHOCYTE_DN
_CANCER_GRADE_1_VS_3_UP, SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
                                                                               CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_UP, CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_UP
                                                                                FISCHER_G1_S_CELL_CYCLE, FISCHER_G1_S_CELL_CYCLE
                                                                                 VERNELL_RETINOBLASTOMA_PATHWAY_UP, VERNELL_RETINOBLASTOMA_PATHWAY_UP
                                                                                ISHIDA_E2F_TARGETS, ISHIDA_E2F_TARGETS
                                                                                GARCIA_TARGETS_OF_FLI1_AND_DAX1_DN, GARCIA_TARGETS_OF_FLI1_AND_DAX1_DN
                                                                                WIELAND_UP_BY_HBV_INFECTION, WIELAND_UP_BY_HBV_INFECTION
                                                                                REACTOME_RECRUITMENT_OF_NUMA_TO_MITOTIC_CENTROSOMES, REACTOME_RECRUITMENT_OF_NUMA_TO_MITOTIC_CENTROSOMES
                                                                                ODONNELL_TFRC_TARGETS_DN, ODONNELL_TFRC_TARGETS_DN
                                                                                SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN, SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN
                                                                                REACTOME_INHIBITION_OF_THE_PROTEOLYTIC_ACTIVITY_OF_APC_C_REQUIRED_FOR_THE_ONSET_OF_ANAPHASE_BY_MITOTIC_SPINDLE
                                                                                KEGG_PROGESTERONE_MEDIATED_OOCYTE_MATURATION, KEGG_PROGESTERONE_MEDIATED_OOCYTE_MATURATION
                                                                                REACTOME_G2_M_DNA_DAMAGE_CHECKPOINT, REACTOME_G2_M_DNA_DAMAGE_CHECKPOINT
                                                                                REN_BOUND_BY_E2F, REN_BOUND_BY_E2F
                                                                                SHEPARD_BMYB_TARGETS, SHEPARD_BMYB_TARGETS
                                                                               WU_APOPTOSIS_BY_CDKN1A_VIA_TP53, WU_APOPTOSIS_BY_CDKN1A_VIA_TP53
                                                                               PID_E2F_PATHWAY, PID_E2F_PATHWAY
                                                                              LY_AGING_MIDDLE_DN, LY_AGING_MIDDLE_DN
                                                                               BIOCARTA_MCM_PATHWAY, BIOCARTA_MCM_PATHWAY
                                                                               REACTOME_PRC2_METHYLATES_HISTONES_AND_DNA, REACTOME_PRC2_METHYLATES_HISTONES_AND_DNA
                                                                               CHANDRAN_METASTASIS_UP, CHANDRAN_METASTASIS_UP
                                                                                RIGGI_EWING_SARCOMA_PROGENITOR_DN, RIGGI_EWING_SARCOMA_PROGENITOR_DN
                                                                                REACTOME_OXIDATIVE_STRESS_INDUCED_SENESCENCE, REACTOME_OXIDATIVE_STRESS_INDUCED_SENESCENCE
                                                                                REACTOME_NUCLEAR_ENVELOPE_BREAKDOWN, REACTOME_NUCLEAR_ENVELOPE_BREAKDOWN
                                                                                EGUCHI_CELL_CYCLE_RB1_TARGETS, EGUCHI_CELL_CYCLE_RB1_TARGETS
                                                                                REACTOME_CHROMOSOME_MAINTENANCE, REACTOME_CHROMOSOME_MAINTENANCE
                                                                                LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_DN, LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_DN
                                                                                REACTOME_CONVERSION_FROM_APC_C_CDC20_TO_APC_C_CDH1_IN_LATE_ANAPHASE, REACTOME_CONVERSION_FROM_APC_C_CDC20_TO_APC_C_CDH1_IN_LATE_ANAPHASE
                                                                                SMITH_LIVER_CANCER, SMITH_LIVER_CANCER
                                                                                WHITFIELD_CELL_CYCLE_LITERATURE, WHITFIELD_CELL_CYCLE_LITERATURE
                                                                                REACTOME_BASE_EXCISION_REPAIR, REACTOME_BASE_EXCISION_REPAIR
                                                                                BHATI_G2M_ARREST_BY_2METHOXYESTRADIOL_UP, BHATI_G2M_ARREST_BY_2METHOXYESTRADIOL_UP
                                                                                REACTOME MEIOSIS, REACTOME MEIOSIS
                                                                                FINETTI_BREAST_CANCER_KINOME_RED, FINETTI_BREAST_CANCER_KINOME_RED
                                                                                BURTON_ADIPOGENESIS_PEAK_AT_24HR, BURTON_ADIPOGENESIS_PEAK_AT_24HR
                                                                                YAMAZAKI_TCEB3_TARGETS_DN, YAMAZAKI_TCEB3_TARGETS_DN
                                                                                VANTVEER_BREAST_CANCER_METASTASIS_DN, VANTVEER_BREAST_CANCER_METASTASIS_DN
                                                                                GEORGES_CELL_CYCLE_MIR192_TARGETS, GEORGES_CELL_CYCLE_MIR192_TARGETS
                                                                                REACTOME MEIOTIC RECOMBINATION, REACTOME MEIOTIC RECOMBINATION
                                                                                BOYAULT_LIVER_CANCER_SUBCLASS_G23_UP, BOYAULT_LIVER_CANCER_SUBCLASS_G23_UP
                                                                                MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_DN, MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_DN
                                                                                REACTOME_NUCLEAR_PORE_COMPLEX_NPC_DISASSEMBLY, REACTOME_NUCLEAR_PORE_COMPLEX_NPC_DISASSEMBLY
                                                                                FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_DN, FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_DN
                                                                                PEART HDAC PROLIFERATION CLUSTER DN, PEART HDAC PROLIFERATION CLUSTER DN
                                                                                REACTOME GAP JUNCTION ASSEMBLY, REACTOME GAP JUNCTION ASSEMBLY
                                                                                KEGG_DNA_REPLICATION, KEGG_DNA_REPLICATION
                                                                                CHANDRAN METASTASIS TOP50 UP, CHANDRAN METASTASIS TOP50 UP
                                                                                RIZ_ERYTHROID_DIFFERENTIATION, RIZ_ERYTHROID_DIFFERENTIATION
                                                                                REACTOME THE ROLE OF GTSE1 IN G2 M PROGRESSION AFTER G2 CHECKPOINT, REACTOME THE ROLE OF GTSE1 IN G2 M PROGRESSION AFTER G2 CHECKPOINT
                                                                                PID AURORA B PATHWAY, PID AURORA B PATHWAY
                                                                                PID_AURORA_A_PATHWAY, PID_AURORA_A_PATHWAY
                                                                                RUIZ_TNC_TARGETS_DN, RUIZ_TNC_TARGETS_DN
                                                                                KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_UP, KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_UP
                                                                                WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_H2O2, WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_H2O2
                                                                                DELPUECH FOXO3 TARGETS DN, DELPUECH FOXO3 TARGETS DN
                                                                                REACTOME HEDGEHOG OFF STATE, REACTOME HEDGEHOG OFF STATE
                                                                                CAFFAREL_RESPONSE_TO_THC_24HR_5_UP, CAFFAREL_RESPONSE_TO_THC_24HR_5_UP
                                                                               PEART_HDAC_PROLIFERATION_CLUSTER_UP, PEART_HDAC_PROLIFERATION_CLUSTER_UP
                                                                                NUNODA RESPONSE TO DASATINIB IMATINIB UP, NUNODA RESPONSE TO DASATINIB IMATINIB UP
                                                                                ALCALAY_AML_BY_NPM1_LOCALIZATION_DN, ALCALAY_AML_BY_NPM1_LOCALIZATION_DN
                                                                                KUMAMOTO RESPONSE TO NUTLIN 3A DN, KUMAMOTO RESPONSE TO NUTLIN 3A DN
                                                                                PID_FOXO_PATHWAY, PID_FOXO_PATHWAY
                                                                                REACTOME_SIGNALING_BY_HEDGEHOG, REACTOME_SIGNALING_BY_HEDGEHOG
                                                                                REACTOME_DNA_STRAND_ELONGATION, REACTOME_DNA_STRAND_ELONGATION
                                                                                FURUKAWA_DUSP6_TARGETS_PCI35_DN, FURUKAWA_DUSP6_TARGETS_PCI35_DN
                                                                                REACTOME_TRANSCRIPTIONAL_REGULATION_OF_GRANULOPOIESIS, REACTOME_TRANSCRIPTIONAL_REGULATION_OF_GRANULOPOIESIS
                                                                                REACTOME_TP53_REGULATES_TRANSCRIPTION_OF_GENES_INVOLVED_IN_G1_CELL_CYCLE_ARREST, REACTOME_TP53_REGULATES_TRANSCRIPTION_OF_GENES_INVOLVED_IN_G1_CELL_CYCLE_ARREST
                                                                                TSAI_RESPONSE_TO_IONIZING_RADIATION, TSAI_RESPONSE_TO_IONIZING_RADIATION
                                                                                BIOCARTA_RANMS_PATHWAY, BIOCARTA_RANMS_PATHWAY
                                                                                REACTOME_METABOLISM_OF_NUCLEOTIDES, REACTOME_METABOLISM_OF_NUCLEOTIDES
                                                                                BIOCARTA_P53_PATHWAY, BIOCARTA_P53_PATHWAY
                                                                                REACTOME_AUTOPHAGY, REACTOME_AUTOPHAGY
                                                                                REACTOME_TRANSCRIPTIONAL_REGULATION_BY_E2F6, REACTOME_TRANSCRIPTIONAL_REGULATION_BY_E2F6
                                                                                KEGG_HOMOLOGOUS_RECOMBINATION, KEGG_HOMOLOGOUS_RECOMBINATION
                                                                                REACTOME_HDR_THROUGH_SINGLE_STRAND_ANNEALING_SSA, REACTOME_HDR_THROUGH_SINGLE_STRAND_ANNEALING_SSA
                                                                                WILLIAMS_ESR1_TARGETS_UP, WILLIAMS_ESR1_TARGETS_UP
                                                                                REACTOME_GOLGI_TO_ER_RETROGRADE_TRANSPORT, REACTOME_GOLGI_TO_ER_RETROGRADE_TRANSPORT
                                                                                REACTOME_DEPOSITION_OF_NEW_CENPA_CONTAINING_NUCLEOSOMES_AT_THE_CENTROMERE, REACTOME_DEPOSITION_OF_NEW_CENPA_CONTAINING_NUCLEOSOMES_AT_THE_CENTROMERE
```

PID\_ATR\_PATHWAY, PID\_ATR\_PATHWAY SHETH\_LIVER\_CANCER\_VS\_TXNIP\_LOSS\_PAM2, SHETH\_LIVER\_CANCER\_VS\_TXNIP\_LOSS\_PAM2 PROVENZANI\_METASTASIS\_UP, PROVENZANI\_METASTASIS\_UP REACTOME\_PCNA\_DEPENDENT\_LONG\_PATCH\_BASE\_EXCISION\_REPAIR, REACTOME\_PCNA\_DEPENDENT\_LONG\_PATCH\_BASE\_EXCISION\_REPAIR ABRAHAM\_ALPC\_VS\_MULTIPLE\_MYELOMA\_DN, ABRAHAM\_ALPC\_VS\_MULTIPLE\_MYELOMA\_DN KOKKINAKIS\_METHIONINE\_DEPRIVATION\_48HR\_DN, KOKKINAKIS\_METHIONINE\_DEPRIVATION\_48HR\_DN REACTOME\_PHOSPHORYLATION\_OF\_THE\_APC\_C, REACTOME\_PHOSPHORYLATION\_OF\_THE\_APC\_C KENNY\_CTNNB1\_TARGETS\_UP, KENNY\_CTNNB1\_TARGETS\_UP MONTERO\_THYROID\_CANCER\_POOR\_SURVIVAL\_UP, MONTERO\_THYROID\_CANCER\_POOR\_SURVIVAL\_UP KOKKINAKIS\_METHIONINE\_DEPRIVATION\_96HR\_DN, KOKKINAKIS\_METHIONINE\_DEPRIVATION\_96HR\_DN XU\_HGF\_TARGETS\_INDUCED\_BY\_AKT1\_48HR\_DN, XU\_HGF\_TARGETS\_INDUCED\_BY\_AKT1\_48HR\_DN PID\_PRL\_SIGNALING\_EVENTS\_PATHWAY, PID\_PRL\_SIGNALING\_EVENTS\_PATHWAY BIOCARTA\_RACCYCD\_PATHWAY, BIOCARTA\_RACCYCD\_PATHWAY REACTOME G1\_S\_SPECIFIC\_TRANSCRIPTION, REACTOME\_G1\_S\_SPECIFIC\_TRANSCRIPTION DORN\_ADENOVIRUS\_INFECTION\_12HR\_DN, DORN\_ADENOVIRUS\_INFECTION\_12HR\_DN

REACTOME FACTORS INVOLVED IN MEGAKARYOCYTE DEVELOPMENT AND PLATELET PRODUCTION, REACTOME FACTORS INVOLVED IN MEGAKARYOCYTE DEVELOPMENT AND PLATELET PRODUCTION

REACTOME\_COPI\_DEPENDENT\_GOLGI\_TO\_ER\_RETROGRADE\_TRAFFIC, REACTOME\_COPI\_DEPENDENT\_GOLGI\_TO\_ER\_RETROGRADE\_TRAFFIC

REACTOME\_HOMOLOGOUS\_DNA\_PAIRING\_AND\_STRAND\_EXCHANGE, REACTOME\_HOMOLOGOUS\_DNA\_PAIRING\_AND\_STRAND\_EXCHANGE

REACTOME\_DNA\_DAMAGE\_TELOMERE\_STRESS\_INDUCED\_SENESCENCE, REACTOME\_DNA\_DAMAGE\_TELOMERE\_STRESS\_INDUCED\_SENESCENCE

REACTOME\_TP53\_REGULATES\_TRANSCRIPTION\_OF\_CELL\_CYCLE\_GENES, REACTOME\_TP53\_REGULATES\_TRANSCRIPTION\_OF\_CELL\_CYCLE\_GENES

REACTOME CONDENSATION OF PROMETAPHASE CHROMOSOMES, REACTOME CONDENSATION OF PROMETAPHASE CHROMOSOMES

REACTOME\_INTERCONVERSION\_OF\_NUCLEOTIDE\_DI\_AND\_TRIPHOSPHATES, REACTOME\_INTERCONVERSION\_OF\_NUCLEOTIDE\_DI\_AND\_TRIPHOSPHATES

REACTOME GOLGI CISTERNAE PERICENTRIOLAR STACK REORGANIZATION, REACTOME GOLGI CISTERNAE PERICENTRIOLAR STACK REORGANIZATION

BIOCARTA\_G1\_PATHWAY, BIOCARTA\_G1\_PATHWAY

PID\_FANCONI\_PATHWAY, PID\_FANCONI\_PATHWAY

OHASHI AURKB TARGETS, OHASHI AURKB TARGETS

OLSSON\_E2F3\_TARGETS\_DN, OLSSON\_E2F3\_TARGETS\_DN

PID\_BARD1\_PATHWAY, PID\_BARD1\_PATHWAY

BENPORATH\_ES\_2, BENPORATH\_ES\_2

SMID\_BREAST\_CANCER\_LUMINAL\_A\_DN, SMID\_BREAST\_CANCER\_LUMINAL\_A\_DN

YANG\_BREAST\_CANCER\_ESR1\_BULK\_DN, YANG\_BREAST\_CANCER\_ESR1\_BULK\_DN

LI\_WILMS\_TUMOR\_ANAPLASTIC\_UP, LI\_WILMS\_TUMOR\_ANAPLASTIC\_UP

PYEON\_HPV\_POSITIVE\_TUMORS\_UP, PYEON\_HPV\_POSITIVE\_TUMORS\_UP

REACTOME\_TELOMERE\_MAINTENANCE, REACTOME\_TELOMERE\_MAINTENANCE

HESS\_TARGETS\_OF\_HOXA9\_AND\_MEIS1\_UP, HESS\_TARGETS\_OF\_HOXA9\_AND\_MEIS1\_UP

HAHTOLA\_MYCOSIS\_FUNGOIDES\_SKIN\_DN, HAHTOLA\_MYCOSIS\_FUNGOIDES\_SKIN\_DN

CHESLER\_BRAIN\_HIGHEST\_GENETIC\_VARIANCE, CHESLER\_BRAIN\_HIGHEST\_GENETIC\_VARIANCE

WEST\_ADRENOCORTICAL\_TUMOR\_MARKERS\_UP, WEST\_ADRENOCORTICAL\_TUMOR\_MARKERS\_UP

REACTOME\_INTRAFLAGELLAR\_TRANSPORT, REACTOME\_INTRAFLAGELLAR\_TRANSPORT

WANG\_CISPLATIN\_RESPONSE\_AND\_XPC\_UP, WANG\_CISPLATIN\_RESPONSE\_AND\_XPC\_UP

STEIN\_ESRRA\_TARGETS\_RESPONSIVE\_TO\_ESTROGEN\_DN, STEIN\_ESRRA\_TARGETS\_RESPONSIVE\_TO\_ESTROGEN\_DN