```
ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER, ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
                                                                                REACTOME_G2_M_CHECKPOINTS, REACTOME_G2_M_CHECKPOINTS
                                                                                REACTOME_DNA_DOUBLE_STRAND_BREAK_REPAIR, REACTOME_DNA_DOUBLE_STRAND_BREAK_REPAIR
                                                                                WINNEPENNINCKX_MELANOMA_METASTASIS_UP, WINNEPENNINCKX_MELANOMA_METASTASIS_UP
                                                                                FUJII_YBX1_TARGETS_DN, FUJII_YBX1_TARGETS_DN
                                                                                BOYAULT_LIVER_CANCER_SUBCLASS_G3_UP, BOYAULT_LIVER_CANCER_SUBCLASS_G3_UP
                                                                                 FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_STABLE_UP, FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_STABLE_UP
                                                                                 HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP, HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP
                                                                                 BENPORATH_PROLIFERATION, BENPORATH_PROLIFERATION
                                                                                REACTOME S PHASE, REACTOME S PHASE
                                                                                REACTOME_HOMOLOGY_DIRECTED_REPAIR, REACTOME_HOMOLOGY_DIRECTED_REPAIR
                                                                                 LEE_LIVER_CANCER_SURVIVAL_DN, LEE_LIVER_CANCER_SURVIVAL_DN
                                                                                 REACTOME SEPARATION OF SISTER CHROMATIDS, REACTOME SEPARATION OF SISTER CHROMATIDS
                                                                                GRAHAM CML DIVIDING VS NORMAL QUIESCENT UP, GRAHAM CML DIVIDING VS NORMAL QUIESCENT UP
                                                                                 ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR, ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
                                                                                PUJANA_BRCA_CENTERED_NETWORK, PUJANA_BRCA_CENTERED_NETWORK
                                                                                 BLANCO_MELO_BRONCHIAL_EPITHELIAL_CELLS_INFLUENZA_A_DEL_NS1_INFECTION_DN, BLANCO_MELO_BRONCHIAL_EPITHELIAL_CELLS_INFLUENZA_A_DEL_NS1_INFECTION_DN
                                                                                REACTOME_MITOTIC_PROPHASE, REACTOME_MITOTIC_PROPHASE
                                                                                CROONQUIST_IL6_DEPRIVATION_DN, CROONQUIST_IL6_DEPRIVATION_DN
                                                                                REACTOME_DNA_REPLICATION, REACTOME_DNA_REPLICATION
                                                                                REACTOME_MITOTIC_G2_G2_M_PHASES, REACTOME_MITOTIC_G2_G2_M_PHASES
                                                                                MISSIAGLIA REGULATED BY METHYLATION DN, MISSIAGLIA REGULATED BY METHYLATION DN
                                                                                WHITEFORD PEDIATRIC CANCER MARKERS, WHITEFORD PEDIATRIC CANCER MARKERS
                                                                                ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_6HR, ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_6HR
                                                                                CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_DN, CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_DN
                                                                                REACTOME_G2_M_DNA_DAMAGE_CHECKPOINT, REACTOME_G2_M_DNA_DAMAGE_CHECKPOINT
                                                                                REACTOME_MITOTIC_G1_PHASE_AND_G1_S_TRANSITION, REACTOME_MITOTIC_G1_PHASE_AND_G1_S_TRANSITION
                                                                                KONG_E2F3_TARGETS, KONG_E2F3_TARGETS
                                                                                PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP, PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP
                                                                                FLORIO_NEOCORTEX_BASAL_RADIAL_GLIA_DN, FLORIO_NEOCORTEX_BASAL_RADIAL_GLIA_DN
                                                                                PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP, PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP
                                                                                REACTOME_PROCESSING_OF_DNA_DOUBLE_STRAND_BREAK_ENDS, REACTOME_PROCESSING_OF_DNA_DOUBLE_STRAND_BREAK_ENDS
                                                                                REACTOME_MITOTIC_SPINDLE_CHECKPOINT, REACTOME_MITOTIC_SPINDLE_CHECKPOINT
                                                                                MORI_LARGE_PRE_BII_LYMPHOCYTE_UP, MORI_LARGE_PRE_BII_LYMPHOCYTE_UP
                                                                                VILLANUEVA_LIVER_CANCER_KRT19_UP, VILLANUEVA_LIVER_CANCER_KRT19_UP
                                                                                SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP, SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP
                                                                                WHITFIELD_CELL_CYCLE_G2_M, WHITFIELD_CELL_CYCLE_G2_M
                                                                                REACTOME_REGULATION_OF_TP53_ACTIVITY, REACTOME_REGULATION_OF_TP53_ACTIVITY
                                                                                REACTOME CELLULAR SENESCENCE, REACTOME CELLULAR SENESCENCE
                                                                                REACTOME SWITCHING OF ORIGINS TO A POST REPLICATIVE STATE, REACTOME SWITCHING OF ORIGINS TO A POST REPLICATIVE STATE
                                                                                CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_UP, CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_UP
                                                                                REACTOME_APC_C_MEDIATED_DEGRADATION_OF_CELL_CYCLE_PROTEINS, REACTOME_APC_C_MEDIATED_DEGRADATION_OF_CELL_CYCLE_PROTEINS
                                                                                REACTOME_DNA_REPLICATION_PRE_INITIATION, REACTOME_DNA_REPLICATION_PRE_INITIATION
                                                                                LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_DN, LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_DN
                                                                                CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP, CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
                                                                                PUJANA_BREAST_CANCER_LIT_INT_NETWORK, PUJANA_BREAST_CANCER_LIT_INT_NETWORK
                                                                                WHITFIELD_CELL_CYCLE_G2, WHITFIELD_CELL_CYCLE_G2
                                                                                REACTOME CONDENSATION OF PROPHASE CHROMOSOMES, REACTOME CONDENSATION OF PROPHASE CHROMOSOMES
                                                                                MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_DN, MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_DN
                                                                                GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN, GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN
                                                                                REACTOME_RESOLUTION_OF_SISTER_CHROMATID_COHESION, REACTOME_RESOLUTION_OF_SISTER_CHROMATID_COHESION
                                                                                MORI_IMMATURE_B_LYMPHOCYTE_DN, MORI_IMMATURE_B_LYMPHOCYTE_DN
                                                                                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
                                                                                CROONQUIST NRAS SIGNALING DN, CROONQUIST NRAS SIGNALING DN
                                                                                DAZARD_UV_RESPONSE_CLUSTER_G6, DAZARD_UV_RESPONSE_CLUSTER_G6
                                                                                WHITFIELD_CELL_CYCLE_S, WHITFIELD_CELL_CYCLE_S
                                                                                BURTON_ADIPOGENESIS_3, BURTON_ADIPOGENESIS_3
                                                                                REACTOME_DEPOSITION_OF_NEW_CENPA_CONTAINING_NUCLEOSOMES_AT_THE_CENTROMERE, REACTOME_DEPOSITION_OF_NEW_CENPA_CONTAINING_NUCLEOSOMES_AT_THE_CENTROMERE
                                                                                REACTOME_SUMOYLATION_OF_DNA_REPLICATION_PROTEINS, REACTOME_SUMOYLATION_OF_DNA_REPLICATION_PROTEINS
                                                                                KEGG_CELL_CYCLE, KEGG_CELL_CYCLE
                                                                                GARCIA_TARGETS_OF_FLI1_AND_DAX1_DN, GARCIA_TARGETS_OF_FLI1_AND_DAX1_DN
                                                                                WP_RETINOBLASTOMA_GENE_IN_CANCER, WP_RETINOBLASTOMA_GENE_IN_CANCER
                                                                                KAUFFMANN_MELANOMA_RELAPSE_UP, KAUFFMANN_MELANOMA_RELAPSE_UP
                                                                                REACTOME_ASSEMBLY_OF_THE_PRE_REPLICATIVE_COMPLEX, REACTOME_ASSEMBLY_OF_THE_PRE_REPLICATIVE_COMPLEX
                                                                                REACTOME_DISEASES_OF_PROGRAMMED_CELL_DEATH, REACTOME_DISEASES_OF_PROGRAMMED_CELL_DEATH
                                                                                BROWNE_HCMV_INFECTION_14HR_UP, BROWNE_HCMV_INFECTION_14HR_UP
                                                                                REN_BOUND_BY_E2F, REN_BOUND_BY_E2F
                                                                                WP_DNA_IRDAMAGE_AND_CELLULAR_RESPONSE_VIA_ATR, WP_DNA_IRDAMAGE_AND_CELLULAR_RESPONSE_VIA_ATR
                                                                                REACTOME_SENESCENCE_ASSOCIATED_SECRETORY_PHENOTYPE_SASP, REACTOME_SENESCENCE_ASSOCIATED_SECRETORY_PHENOTYPE_SASP
                                                                                REACTOME_ORC1_REMOVAL_FROM_CHROMATIN, REACTOME_ORC1_REMOVAL_FROM_CHROMATIN
                                                                                WU_APOPTOSIS_BY_CDKN1A_VIA_TP53, WU_APOPTOSIS_BY_CDKN1A_VIA_TP53
                                                                                LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER_UP, LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER_UP
                                                                                ODONNELL_TFRC_TARGETS_DN, ODONNELL_TFRC_TARGETS_DN
                                                                                REACTOME_REGULATION_OF_PLK1_ACTIVITY_AT_G2_M_TRANSITION, REACTOME_REGULATION_OF_PLK1_ACTIVITY_AT_G2_M_TRANSITION
                                                                                RHODES_UNDIFFERENTIATED_CANCER, RHODES_UNDIFFERENTIATED_CANCER
                                                                                ISHIDA_E2F_TARGETS, ISHIDA_E2F_TARGETS
                                                                                WP_CELL_CYCLE, WP_CELL_CYCLE
                                                                                WIELAND_UP_BY_HBV_INFECTION, WIELAND_UP_BY_HBV_INFECTION
                                                                                REACTOME_CYCLIN_A_CDK2_ASSOCIATED_EVENTS_AT_S_PHASE_ENTRY, REACTOME_CYCLIN_A_CDK2_ASSOCIATED_EVENTS_AT_S_PHASE_ENTRY
                                                                                FISCHER G1 S CELL CYCLE, FISCHER G1 S CELL CYCLE
                                                                                KAMMINGA_EZH2_TARGETS, KAMMINGA_EZH2_TARGETS
                                                                                REACTOME_MEIOTIC_RECOMBINATION, REACTOME_MEIOTIC_RECOMBINATION
                                                                                REACTOME_NUCLEAR_PORE_COMPLEX_NPC_DISASSEMBLY, REACTOME_NUCLEAR_PORE_COMPLEX_NPC_DISASSEMBLY
                                                                                BOYAULT_LIVER_CANCER_SUBCLASS_G23_UP, BOYAULT_LIVER_CANCER_SUBCLASS_G23_UP
                                                                                MORI_PRE_BI_LYMPHOCYTE_UP, MORI_PRE_BI_LYMPHOCYTE_UP
                                                                                REACTOME_DNA_DAMAGE_TELOMERE_STRESS_INDUCED_SENESCENCE, REACTOME_DNA_DAMAGE_TELOMERE_STRESS_INDUCED_SENESCENCE
                                                                                GEORGES_CELL_CYCLE_MIR192_TARGETS, GEORGES_CELL_CYCLE_MIR192_TARGETS
                                                                                REACTOME_AURKA_ACTIVATION_BY_TPX2, REACTOME_AURKA_ACTIVATION_BY_TPX2
                                                                                WHITFIELD_CELL_CYCLE_G1_S, WHITFIELD_CELL_CYCLE_G1_S
                                                                                REACTOME_G1_S_DNA_DAMAGE_CHECKPOINTS, REACTOME_G1_S_DNA_DAMAGE_CHECKPOINTS
                                                                                KAUFFMANN_DNA_REPLICATION_GENES, KAUFFMANN_DNA_REPLICATION_GENES
                                                                                REACTOME_REGULATION_OF_TP53_ACTIVITY_THROUGH_PHOSPHORYLATION, REACTOME_REGULATION_OF_TP53_ACTIVITY_THROUGH_PHOSPHORYLATION
                                                                                REACTOME_NUCLEAR_ENVELOPE_BREAKDOWN, REACTOME_NUCLEAR_ENVELOPE_BREAKDOWN
                                                                                FARMER_BREAST_CANCER_CLUSTER_2, FARMER_BREAST_CANCER_CLUSTER_2
                                                                                REACTOME_SCF_SKP2_MEDIATED_DEGRADATION_OF_P27_P21, REACTOME_SCF_SKP2_MEDIATED_DEGRADATION_OF_P27_P21
                                                                                REACTOME MEIOSIS, REACTOME MEIOSIS
                                                                                ZHAN_MULTIPLE_MYELOMA_PR_UP, ZHAN_MULTIPLE_MYELOMA_PR_UP
                                                                                SONG_TARGETS_OF_IE86_CMV_PROTEIN, SONG_TARGETS_OF_IE86_CMV_PROTEIN
                                                                                REACTOME_NUCLEAR_ENVELOPE_NE_REASSEMBLY, REACTOME_NUCLEAR_ENVELOPE_NE_REASSEMBLY
                                                                                REACTOME_ACTIVATION_OF_ATR_IN_RESPONSE_TO_REPLICATION_STRESS, REACTOME_ACTIVATION_OF_ATR_IN_RESPONSE_TO_REPLICATION_STRESS
                                                                                TANG_SENESCENCE_TP53_TARGETS_DN, TANG_SENESCENCE_TP53_TARGETS_DN
                                                                                WAKASUGI_HAVE_ZNF143_BINDING_SITES, WAKASUGI_HAVE_ZNF143_BINDING_SITES
                                                                                KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS, KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS
                                                                                REACTOME_RHO_GTPASES_ACTIVATE_FORMINS, REACTOME_RHO_GTPASES_ACTIVATE_FORMINS
                                                                                KANG_DOXORUBICIN_RESISTANCE_UP, KANG_DOXORUBICIN_RESISTANCE_UP
                                                                                REACTOME_HDR_THROUGH_HOMOLOGOUS_RECOMBINATION_HRR, REACTOME_HDR_THROUGH_HOMOLOGOUS_RECOMBINATION_HRR
                                                                                WP ATM SIGNALING NETWORK IN DEVELOPMENT AND DISEASE, WP ATM SIGNALING NETWORK IN DEVELOPMENT AND DISEASE
                                                                                ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN, ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN
                                                                                REACTOME_RECRUITMENT_OF_NUMA_TO_MITOTIC_CENTROSOMES, REACTOME_RECRUITMENT_OF_NUMA_TO_MITOTIC_CENTROSOMES
                                                                                WELCSH_BRCA1_TARGETS_UP, WELCSH_BRCA1_TARGETS_UP
                                                                                LEE_EARLY_T_LYMPHOCYTE_UP, LEE_EARLY_T_LYMPHOCYTE_UP
                                                                                PID_E2F_PATHWAY, PID_E2F_PATHWAY
                                                                                CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_UP, CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_UP
                                                                                LY_AGING_OLD_DN, LY_AGING_OLD_DN
                                                                                PYEON_HPV_POSITIVE_TUMORS_UP, PYEON_HPV_POSITIVE_TUMORS_UP
                                                                                LE_EGR2_TARGETS_UP, LE_EGR2_TARGETS_UP
                                                                                 ALCALAY_AML_BY_NPM1_LOCALIZATION_DN, ALCALAY_AML_BY_NPM1_LOCALIZATION_DN
                                                                                WP_DNA_IRDOUBLE_STRAND_BREAKS_DSBS_AND_CELLULAR_RESPONSE_VIA_ATM, WP_DNA_IRDOUBLE_STRAND_BREAKS_DSBS_AND_CELLULAR_RESPONSE_VIA_ATM
                                                                                 ALONSO_METASTASIS_UP, ALONSO_METASTASIS_UP
                                                                                WANG_METASTASIS_OF_BREAST_CANCER_ESR1_UP, WANG_METASTASIS_OF_BREAST_CANCER_ESR1_UP
                                                                                REACTOME_TRANSCRIPTIONAL_REGULATION_OF_GRANULOPOIESIS, REACTOME_TRANSCRIPTIONAL_REGULATION_OF_GRANULOPOIESIS
                                                                                SCIBETTA_KDM5B_TARGETS_DN, SCIBETTA_KDM5B_TARGETS_DN
                                                                                YU_MYC_TARGETS_UP, YU_MYC_TARGETS_UP
                                                                                PID_AURORA_B_PATHWAY, PID_AURORA_B_PATHWAY
                                                                                FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_DN, FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_DN
                                                                                NAKAMURA_CANCER_MICROENVIRONMENT_DN, NAKAMURA_CANCER_MICROENVIRONMENT_DN
                                                                                RUIZ_TNC_TARGETS_DN, RUIZ_TNC_TARGETS_DN
                                                                                RIZ_ERYTHROID_DIFFERENTIATION, RIZ_ERYTHROID_DIFFERENTIATION
                                                                                WILCOX_RESPONSE_TO_PROGESTERONE_UP, WILCOX_RESPONSE_TO_PROGESTERONE_UP
                                                                                MATTIOLI_MGUS_VS_PCL, MATTIOLI_MGUS_VS_PCL
                                                                                GAVIN_FOXP3_TARGETS_CLUSTER_P6, GAVIN_FOXP3_TARGETS_CLUSTER_P6
                                                                                PID_PLK1_PATHWAY, PID_PLK1_PATHWAY
                                                                                REACTOME_GOLGI_TO_ER_RETROGRADE_TRANSPORT, REACTOME_GOLGI_TO_ER_RETROGRADE_TRANSPORT
                                                                                WHITFIELD_CELL_CYCLE_LITERATURE, WHITFIELD_CELL_CYCLE_LITERATURE
                                                                                HESS_TARGETS_OF_HOXA9_AND_MEIS1_UP, HESS_TARGETS_OF_HOXA9_AND_MEIS1_UP
                                                                                WP_DNA_REPLICATION, WP_DNA_REPLICATION
                                                                                FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN, FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN
                                                                                REACTOME_THE_ROLE_OF_GTSE1_IN_G2_M_PROGRESSION_AFTER_G2_CHECKPOINT, REACTOME_THE_ROLE_OF_GTSE1_IN_G2_M_PROGRESSION_AFTER_G2_CHECKPOINT
                                                                                TOOKER_GEMCITABINE_RESISTANCE_DN, TOOKER_GEMCITABINE_RESISTANCE_DN
                                                                                WANG_CISPLATIN_RESPONSE_AND_XPC_UP, WANG_CISPLATIN_RESPONSE_AND_XPC_UP
                                                                                SASAKI_ADULT_T_CELL_LEUKEMIA, SASAKI_ADULT_T_CELL_LEUKEMIA
                                                                                PID_ATM_PATHWAY, PID_ATM_PATHWAY
                                                                                TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_NORMAL_UP, TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_NORMAL_UP
                                                                                REACTOME_HEDGEHOG_OFF_STATE, REACTOME_HEDGEHOG_OFF_STATE
                                                                                 VANTVEER_BREAST_CANCER_METASTASIS_DN, VANTVEER_BREAST_CANCER_METASTASIS_DN
                                                                                 MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_DN, MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_DN
                                                                                 REACTOME_SIGNALING_BY_HEDGEHOG, REACTOME_SIGNALING_BY_HEDGEHOG
                                                                                 REACTOME_ACTIVATION_OF_THE_PRE_REPLICATIVE_COMPLEX, REACTOME_ACTIVATION_OF_THE_PRE_REPLICATIVE_COMPLEX
                                                                                 WP_INTEGRATED_BREAST_CANCER_PATHWAY, WP_INTEGRATED_BREAST_CANCER_PATHWAY
                                                                                 REACTOME_METABOLISM_OF_NUCLEOTIDES, REACTOME_METABOLISM_OF_NUCLEOTIDES
                                                                                 WONG_PROTEASOME_GENE_MODULE, WONG_PROTEASOME_GENE_MODULE
                                                                                 BUFFA_HYPOXIA_METAGENE, BUFFA_HYPOXIA_METAGENE
                                                                                 FINETTI_BREAST_CANCER_KINOME_RED, FINETTI_BREAST_CANCER_KINOME_RED
                                                                                 NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_UP, NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_UP
                                                                                 RIEGE_DELTANP63_DIRECT_TARGETS_UP, RIEGE_DELTANP63_DIRECT_TARGETS_UP
                                                                                 REACTOME_HDR_THROUGH_SINGLE_STRAND_ANNEALING_SSA, REACTOME_HDR_THROUGH_SINGLE_STRAND_ANNEALING_SSA
                                                                                EGUCHI_CELL_CYCLE_RB1_TARGETS, EGUCHI_CELL_CYCLE_RB1_TARGETS
                                                                                DELPUECH_FOXO3_TARGETS_DN, DELPUECH_FOXO3_TARGETS_DN
_CANCER_GRADE_1_VS_3_UP, SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
                                                                                BHATTACHARYA_EMBRYONIC_STEM_CELL, BHATTACHARYA_EMBRYONIC_STEM_CELL
                                                                                 BROWN MYELOID CELL DEVELOPMENT DN, BROWN MYELOID CELL DEVELOPMENT DN
                                                                                 WP_DNA_DAMAGE_RESPONSE, WP_DNA_DAMAGE_RESPONSE
                                                                                 VERNELL_RETINOBLASTOMA_PATHWAY_UP, VERNELL_RETINOBLASTOMA_PATHWAY_UP
                                                                                 KOKKINAKIS METHIONINE DEPRIVATION 96HR DN, KOKKINAKIS METHIONINE DEPRIVATION 96HR DN
                                                                                 REACTOME_REPRODUCTION, REACTOME_REPRODUCTION
                                                                                 GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_DN, GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_DN
                                                                                 JIANG_VHL_TARGETS, JIANG_VHL_TARGETS
                                                                                 KATSANOU_ELAVL1_TARGETS_DN, KATSANOU_ELAVL1_TARGETS_DN
                                                                                 REACTOME_DISEASES_OF_MITOTIC_CELL_CYCLE, REACTOME_DISEASES_OF_MITOTIC_CELL_CYCLE
                                                                                 KEGG_DNA_REPLICATION, KEGG_DNA_REPLICATION
                                                                                 GREENBAUM_E2A_TARGETS_UP, GREENBAUM_E2A_TARGETS_UP
                                                                                WP_GASTRIC_CANCER_NETWORK_1, WP_GASTRIC_CANCER_NETWORK_1
                                                                                 REACTOME DNA STRAND ELONGATION, REACTOME DNA STRAND ELONGATION
                                                                                 BIOCARTA G1_PATHWAY, BIOCARTA G1_PATHWAY
                                                                                REACTOME_TRANSCRIPTIONAL_REGULATION_BY_E2F6, REACTOME_TRANSCRIPTIONAL_REGULATION_BY_E2F6
                                                                                 RAMASWAMY_METASTASIS_UP, RAMASWAMY_METASTASIS_UP
                                                                                REACTOME_HOMOLOGOUS_DNA_PAIRING_AND_STRAND_EXCHANGE, REACTOME_HOMOLOGOUS_DNA_PAIRING_AND_STRAND_EXCHANGE
                                                                                JOHANSSON_GLIOMAGENESIS_BY_PDGFB_UP, JOHANSSON_GLIOMAGENESIS_BY_PDGFB_UP
                                                                                 REACTOME_APC_CDC20_MEDIATED_DEGRADATION_OF_NEK2A, REACTOME_APC_CDC20_MEDIATED_DEGRADATION_OF_NEK2A
                                                                                THILLAINADESAN_ZNF217_TARGETS_UP, THILLAINADESAN_ZNF217_TARGETS_UP
                                                                                 YAMAZAKI_TCEB3_TARGETS_DN, YAMAZAKI_TCEB3_TARGETS_DN
                                                                                MMS_MOUSE_LYMPH_HIGH_4HRS_UP, MMS_MOUSE_LYMPH_HIGH_4HRS_UP
                                                                                CHANDRAN_METASTASIS_TOP50_UP, CHANDRAN_METASTASIS_TOP50_UP
                                                                                HU_GENOTOXIC_DAMAGE_4HR, HU_GENOTOXIC_DAMAGE_4HR
                                                                                SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM2, SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM2
                                                                                HIRSCH_CELLULAR_TRANSFORMATION_SIGNATURE_DN, HIRSCH_CELLULAR_TRANSFORMATION_SIGNATURE_DN
                                                                                REICHERT_MITOSIS_LIN9_TARGETS, REICHERT_MITOSIS_LIN9_TARGETS
                                                                                BHATI_G2M_ARREST_BY_2METHOXYESTRADIOL_UP, BHATI_G2M_ARREST_BY_2METHOXYESTRADIOL_UP
                                                                                SHEPARD_CRASH_AND_BURN_MUTANT_DN, SHEPARD_CRASH_AND_BURN_MUTANT_DN
                                                                                PEART_HDAC_PROLIFERATION_CLUSTER_UP, PEART_HDAC_PROLIFERATION_CLUSTER_UP
                                                                                FERNANDEZ_BOUND_BY_MYC, FERNANDEZ_BOUND_BY_MYC
                                                                                YUAN_ZNF143_PARTNERS, YUAN_ZNF143_PARTNERS
                                                                                KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_UP, KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_UP
                                                                                GENTILE_UV_RESPONSE_CLUSTER_D4, GENTILE_UV_RESPONSE_CLUSTER_D4
                                                                                REACTOME_PHOSPHORYLATION_OF_THE_APC_C, REACTOME_PHOSPHORYLATION_OF_THE_APC_C
                                                                                REACTOME_EXTENSION_OF_TELOMERES, REACTOME_EXTENSION_OF_TELOMERES
                                                                                WP_G1_TO_S_CELL_CYCLE_CONTROL, WP_G1_TO_S_CELL_CYCLE_CONTROL
                                                                                REACTOME_PROTEIN_FOLDING, REACTOME_PROTEIN_FOLDING
                                                                                REACTOME_NUCLEOTIDE_BINDING_DOMAIN_LEUCINE_RICH_REPEAT_CONTAINING_RECEPTOR_NLR_SIGNALING_PATHWAYS, REACTOME_NUCLEOTIDE_BINDING_DOMAIN_LEUCINE_RICH_REPEAT_CONTAINING_RECEPTOR_NLR_SIGNALING_PATHWAYS
                                                                                REACTOME APC C CDC20 MEDIATED DEGRADATION OF CYCLIN B, REACTOME APC C CDC20 MEDIATED DEGRADATION OF CYCLIN B
                                                                                GHO_ATF5_TARGETS_DN, GHO_ATF5_TARGETS_DN
                                                                                YIH_RESPONSE_TO_ARSENITE_C3, YIH_RESPONSE_TO_ARSENITE_C3
                                                                                SLEBOS_HEAD_AND_NECK_CANCER_WITH_HPV_UP, SLEBOS_HEAD_AND_NECK_CANCER_WITH_HPV_UP
                                                                                BIOCARTA_ATRBRCA_PATHWAY, BIOCARTA_ATRBRCA_PATHWAY
                                                                                WP_DNA_MISMATCH_REPAIR, WP_DNA_MISMATCH_REPAIR
                                                                                BURTON_ADIPOGENESIS_PEAK_AT_16HR, BURTON_ADIPOGENESIS_PEAK_AT_16HR
                                                                                KEGG_OOCYTE_MEIOSIS, KEGG_OOCYTE_MEIOSIS
                                                                                WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_H2O2, WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_H2O2
                                                                                REACTOME_PCNA_DEPENDENT_LONG_PATCH_BASE_EXCISION_REPAIR, REACTOME_PCNA_DEPENDENT_LONG_PATCH_BASE_EXCISION_REPAIR
                                                                                REACTOME_CONDENSATION_OF_PROMETAPHASE_CHROMOSOMES, REACTOME_CONDENSATION_OF_PROMETAPHASE_CHROMOSOMES
                                                                                LI_AMPLIFIED_IN_LUNG_CANCER, LI_AMPLIFIED_IN_LUNG_CANCER
                                                                                KEGG_P53_SIGNALING_PATHWAY, KEGG_P53_SIGNALING_PATHWAY
                                                                                MORI_MATURE_B_LYMPHOCYTE_DN, MORI_MATURE_B_LYMPHOCYTE_DN
                                                                                REACTOME_COPI_DEPENDENT_GOLGI_TO_ER_RETROGRADE_TRAFFIC, REACTOME_COPI_DEPENDENT_GOLGI_TO_ER_RETROGRADE_TRAFFIC
                                                                                REACTOME_REGULATION_OF_TP53_EXPRESSION_AND_DEGRADATION, REACTOME_REGULATION_OF_TP53_EXPRESSION_AND_DEGRADATION
                                                                                REACTOME G1_S_SPECIFIC_TRANSCRIPTION, REACTOME G1_S_SPECIFIC_TRANSCRIPTION
                                                                                REACTOME RESOLUTION OF D LOOP STRUCTURES, REACTOME RESOLUTION OF D LOOP STRUCTURES
                                                                                REACTOME_TELOMERE_C_STRAND_LAGGING_STRAND_SYNTHESIS, REACTOME_TELOMERE_C_STRAND_LAGGING_STRAND_SYNTHESIS
                                                                                SHIPP_DLBCL_VS_FOLLICULAR_LYMPHOMA_UP, SHIPP_DLBCL_VS_FOLLICULAR_LYMPHOMA_UP
                                                                                CHIARETTI_T_ALL_RELAPSE_PROGNOSIS, CHIARETTI_T_ALL_RELAPSE_PROGNOSIS
                                                                                BENPORATH_NOS_TARGETS, BENPORATH_NOS_TARGETS
                                                                                BARIS THYROID CANCER UP, BARIS THYROID CANCER UP
                                                                                WP_PARKINUBIQUITIN_PROTEASOMAL_SYSTEM_PATHWAY, WP_PARKINUBIQUITIN_PROTEASOMAL_SYSTEM_PATHWAY
                                                                                REACTOME_G0_AND_EARLY_G1, REACTOME_G0_AND_EARLY_G1
                                                                                REACTOME_CYCLIN_D_ASSOCIATED_EVENTS_IN_G1, REACTOME_CYCLIN_D_ASSOCIATED_EVENTS_IN_G1
                                                                                 PID_ATR_PATHWAY, PID_ATR_PATHWAY
                                                                                REACTOME_SELECTIVE_AUTOPHAGY, REACTOME_SELECTIVE_AUTOPHAGY
                                                                                PID_CDC42_REG_PATHWAY, PID_CDC42_REG_PATHWAY
                                                                                REACTOME_TP53_REGULATES_TRANSCRIPTION_OF_CELL_CYCLE_GENES, REACTOME_TP53_REGULATES_TRANSCRIPTION_OF_CELL_CYCLE_GENES
                                                                                SHEPARD_BMYB_TARGETS, SHEPARD_BMYB_TARGETS
                                                                                PUIFFE_INVASION_INHIBITED_BY_ASCITES_UP, PUIFFE_INVASION_INHIBITED_BY_ASCITES_UP
                                                                                 REACTOME_ABERRANT_REGULATION_OF_MITOTIC_EXIT_IN_CANCER_DUE_TO_RB1_DEFECTS, REACTOME_ABERRANT_REGULATION_OF_MITOTIC_EXIT_IN_CANCER_DUE_TO_RB1_DEFECTS
                                                                                KEGG_MISMATCH_REPAIR, KEGG_MISMATCH_REPAIR
                                                                                TENEDINI_MEGAKARYOCYTE_MARKERS, TENEDINI_MEGAKARYOCYTE_MARKERS
                                                                                CHOW_RASSF1_TARGETS_UP, CHOW_RASSF1_TARGETS_UP
                                                                                BIOCARTA_G2_PATHWAY, BIOCARTA_G2_PATHWAY
                                                                                 JIANG_HYPOXIA_CANCER, JIANG_HYPOXIA_CANCER
                                                                                REACTOME_CHK1_CHK2_CDS1_MEDIATED_INACTIVATION_OF_CYCLIN_B_CDK1_COMPLEX, REACTOME_CHK1_CHK2_CDS1_MEDIATED_INACTIVATION_OF_CYCLIN_B_CDK1_COMPLEX
                                                                                GOLUB_ALL_VS_AML_UP, GOLUB_ALL_VS_AML_UP
                                                                                PEART_HDAC_PROLIFERATION_CLUSTER_DN, PEART_HDAC_PROLIFERATION_CLUSTER_DN
                                                                                XU_HGF_TARGETS_INDUCED_BY_AKT1_48HR_DN, XU_HGF_TARGETS_INDUCED_BY_AKT1_48HR_DN
                                                                                REACTOME_INHIBITION_OF_THE_PROTEOLYTIC_ACTIVITY_OF_APC_C_REQUIRED_FOR_THE_ONSET_OF_ANAPHASE_BY_MITOTIC_SPINDLE_CHECKPOINT_COMPONENTS, REACTOME_INHIBITION_OF_THE_PROTEOLYTIC_ACTIVITY_OF_APC_C_REQUIRED_FOR_THE_ONSET_OF_ANAPHASE_BY_MITOTIC_SPINDLE
                                                                                WP_ATM_SIGNALING_PATHWAY, WP_ATM_SIGNALING_PATHWAY
                                                                                NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_UP, NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_UP
                                                                                ANDERSEN_CHOLANGIOCARCINOMA_CLASS2, ANDERSEN_CHOLANGIOCARCINOMA_CLASS2
                                                                                ZAMORA_NOS2_TARGETS_UP, ZAMORA_NOS2_TARGETS_UP
                                                                                 LEE_LIVER_CANCER_MYC_UP, LEE_LIVER_CANCER_MYC_UP
                                                                                BIOCARTA_P53_PATHWAY, BIOCARTA_P53_PATHWAY
                                                                                REACTOME_POLO_LIKE_KINASE_MEDIATED_EVENTS, REACTOME_POLO_LIKE_KINASE_MEDIATED_EVENTS
                                                                                WP_MIRNA_REGULATION_OF_DNA_DAMAGE_RESPONSE, WP_MIRNA_REGULATION_OF_DNA_DAMAGE_RESPONSE
                                                                                 BIOCARTA_RB_PATHWAY, BIOCARTA_RB_PATHWAY
                                                                                OUYANG_PROSTATE_CANCER_MARKERS, OUYANG_PROSTATE_CANCER_MARKERS
                                                                                REACTOME_RESOLUTION_OF_D_LOOP_STRUCTURES_THROUGH_SYNTHESIS_DEPENDENT_STRAND_ANNEALING_SDSA, REACTOME_RESOLUTION_OF_D_LOOP_STRUCTURES_THROUGH_SYNTHESIS_DEPENDENT_STRAND_ANNEALING_SDSA
                                                                                REACTOME_TRANSCRIPTION_OF_E2F_TARGETS_UNDER_NEGATIVE_CONTROL_BY_P107_RBL1_AND_P130_RBL2_IN_COMPLEX_WITH_HDAC1,
REACTOME_TRANSCRIPTION_OF_E2F_TARGETS_UNDER_NEGATIVE_CONTROL_BY_P107_RBL1_AND_P130_RBL2_IN_COMPLEX_WITH_HDAC1
                                                                                REACTOME_INITIATION_OF_NUCLEAR_ENVELOPE_NE_REFORMATION, REACTOME_INITIATION_OF_NUCLEAR_ENVELOPE_NE_REFORMATION
                                                                                PID_FOXM1_PATHWAY, PID_FOXM1_PATHWAY
                                                                                 SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN, SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN
                                                                                 BIOCARTA_P27_PATHWAY, BIOCARTA_P27_PATHWAY
                                                                                REACTOME_MHC_CLASS_II_ANTIGEN_PRESENTATION, REACTOME_MHC_CLASS_II_ANTIGEN_PRESENTATION
                                                                                KEGG_HOMOLOGOUS_RECOMBINATION, KEGG_HOMOLOGOUS_RECOMBINATION
                                                                                PID_CIRCADIAN_PATHWAY, PID_CIRCADIAN_PATHWAY
                                                                                YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_15, YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_15
                                                                                 BIOCARTA_SKP2E2F_PATHWAY, BIOCARTA_SKP2E2F_PATHWAY
                                                                                 SMIRNOV_RESPONSE_TO_IR_6HR_DN, SMIRNOV_RESPONSE_TO_IR_6HR_DN
                                                                                REACTOME TRANSCRIPTION OF E2F TARGETS UNDER NEGATIVE CONTROL BY DREAM COMPLEX, REACTOME TRANSCRIPTION OF E2F TARGETS UNDER NEGATIVE CONTROL BY DREAM COMPLEX
                                                                                PID_FOXO_PATHWAY, PID_FOXO_PATHWAY
                                                                                 BIOCARTA_RACCYCD_PATHWAY, BIOCARTA_RACCYCD_PATHWAY
                                                                                BIOCARTA_NPC_PATHWAY, BIOCARTA_NPC_PATHWAY
                                                                                 REACTOME_INTRAFLAGELLAR_TRANSPORT, REACTOME_INTRAFLAGELLAR_TRANSPORT
                                                                                SHAFFER_IRF4_TARGETS_IN_ACTIVATED_DENDRITIC_CELL, SHAFFER_IRF4_TARGETS_IN_ACTIVATED_DENDRITIC_CELL
                                                                                BIOCARTA_FBW7_PATHWAY, BIOCARTA_FBW7_PATHWAY
                                                                                HASLINGER_B_CLL_WITH_CHROMOSOME_12_TRISOMY, HASLINGER_B_CLL_WITH_CHROMOSOME_12_TRISOMY
                                                                                SMITH_LIVER_CANCER, SMITH_LIVER_CANCER
                                                                                WP_GASTRIC_CANCER_NETWORK_2, WP_GASTRIC_CANCER_NETWORK_2
                                                                                FURUKAWA_DUSP6_TARGETS_PCI35_DN, FURUKAWA_DUSP6_TARGETS_PCI35_DN
                                                                                BIOCARTA_CELLCYCLE_PATHWAY, BIOCARTA_CELLCYCLE_PATHWAY
                                                                                MATZUK_MEIOTIC_AND_DNA_REPAIR, MATZUK_MEIOTIC_AND_DNA_REPAIR
                                                                                WP_REGULATION_OF_SISTER_CHROMATID_SEPARATION_AT_THE_METAPHASEANAPHASE_TRANSITION, WP_REGULATION_OF_SISTER_CHROMATID_SEPARATION_AT_THE_METAPHASEANAPHASE_TRANSITION
                                                                                LY_AGING_MIDDLE_DN, LY_AGING_MIDDLE_DN
                                                                                SIMBULAN_PARP1_TARGETS_DN, SIMBULAN_PARP1_TARGETS_DN
                                                                                MARKEY_RB1_CHRONIC_LOF_UP, MARKEY_RB1_CHRONIC_LOF_UP
                                                                                PID_AURORA_A_PATHWAY, PID_AURORA_A_PATHWAY
                                                                                GRAHAM_CML_QUIESCENT_VS_NORMAL_QUIESCENT_UP, GRAHAM_CML_QUIESCENT_VS_NORMAL_QUIESCENT_UP
                                                                                REACTOME_TELOMERE_EXTENSION_BY_TELOMERASE, REACTOME_TELOMERE_EXTENSION_BY_TELOMERASE
                                                                                TAYLOR_METHYLATED_IN_ACUTE_LYMPHOBLASTIC_LEUKEMIA, TAYLOR_METHYLATED_IN_ACUTE_LYMPHOBLASTIC_LEUKEMIA
                                                                                TSAI_RESPONSE_TO_IONIZING_RADIATION, TSAI_RESPONSE_TO_IONIZING_RADIATION
                                                                                PETROVA_PROX1_TARGETS_UP, PETROVA_PROX1_TARGETS_UP
                                                                                REACTOME_LAGGING_STRAND_SYNTHESIS, REACTOME_LAGGING_STRAND_SYNTHESIS
                                                                                CAIRO_PML_TARGETS_BOUND_BY_MYC_UP, CAIRO_PML_TARGETS_BOUND_BY_MYC_UP
                                                                                YANG_BREAST_CANCER_ESR1_BULK_DN, YANG_BREAST_CANCER_ESR1_BULK_DN
                                                                                 JIANG_TIP30_TARGETS_UP, JIANG_TIP30_TARGETS_UP
                                                                                 SA_G1_AND_S_PHASES, SA_G1_AND_S_PHASES
                                                                                 HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_DN, HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_DN
                                                                                 REACTOME_MITOTIC_TELOPHASE_CYTOKINESIS, REACTOME_MITOTIC_TELOPHASE_CYTOKINESIS
                                                                                FOURNIER_ACINAR_DEVELOPMENT_LATE_DN, FOURNIER_ACINAR_DEVELOPMENT_LATE_DN
                                                                                STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_DN, STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_DN
                                                                                 LIANG HEMATOPOIESIS STEM CELL NUMBER SMALL VS HUGE DN, LIANG HEMATOPOIESIS STEM CELL NUMBER SMALL VS HUGE DN
                                                                                CARD_MIR302A_TARGETS, CARD_MIR302A_TARGETS
                                                                                 MARKS_HDAC_TARGETS_UP, MARKS_HDAC_TARGETS_UP
                                                                                ZHU_SKIL_TARGETS_DN, ZHU_SKIL_TARGETS_DN
                                                                                CAFFAREL_RESPONSE_TO_THC_DN, CAFFAREL_RESPONSE_TO_THC_DN
                                                                                MATZUK_SPERMATOCYTE, MATZUK_SPERMATOCYTE
                                                                                 KEGG_PROGESTERONE_MEDIATED_OOCYTE_MATURATION, KEGG_PROGESTERONE_MEDIATED_OOCYTE_MATURATION
                                                                                 SESTO_RESPONSE_TO_UV_C7, SESTO_RESPONSE_TO_UV_C7
                                                                                 BROWNE_HCMV_INFECTION_12HR_DN, BROWNE_HCMV_INFECTION_12HR_DN
                                                                                REACTOME_RHO_GTPASES_ACTIVATE_CIT, REACTOME_RHO_GTPASES_ACTIVATE_CIT
                                                                                 SCHAEFFER_SOX9_TARGETS_IN_PROSTATE_DEVELOPMENT_DN, SCHAEFFER_SOX9_TARGETS_IN_PROSTATE_DEVELOPMENT_DN
                                                                                REACTOME_E2F_ENABLED_INHIBITION_OF_PRE_REPLICATION_COMPLEX_FORMATION, REACTOME_E2F_ENABLED_INHIBITION_OF_PRE_REPLICATION_COMPLEX_FORMATION
                                                                                 PID_P73PATHWAY, PID_P73PATHWAY
                                                                                KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_DN, KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_DN
                                                                                REACTOME_RHOD_GTPASE_CYCLE, REACTOME_RHOD_GTPASE_CYCLE
                                                                                CROONQUIST NRAS VS STROMAL STIMULATION DN, CROONQUIST NRAS VS STROMAL STIMULATION DN
                                                                                STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_UP, STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_UP
                                                                                BIOCARTA RANMS PATHWAY, BIOCARTA RANMS PATHWAY
                                                                                MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP, MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
                                                                                REACTOME POLYMERASE SWITCHING ON THE C STRAND OF THE TELOMERE, REACTOME POLYMERASE SWITCHING ON THE C STRAND OF THE TELOMERE
                                                                                NEMETH_INFLAMMATORY_RESPONSE_LPS_DN, NEMETH_INFLAMMATORY_RESPONSE_LPS_DN
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