

AL\_PROTEIN\_TARGETING\_TO\_MEMBRANE, REACTOME\_SRP\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANE

REACTOME\_CELLULAR\_RESPONSE\_TO\_STARVATION, REACTOME\_CELLULAR\_RESPONSE\_TO\_STARVATION  
 REACTOME\_EUKARYOTIC\_TRANSLATION\_ELONGATION, REACTOME\_EUKARYOTIC\_TRANSLATION\_ELONGATION  
 REACTOME\_EUKARYOTIC\_TRANSLATION\_INITIATION, REACTOME\_EUKARYOTIC\_TRANSLATION\_INITIATION  
 REACTOME\_REGULATION\_OF\_EXPRESSION\_OF\_SLITS\_AND\_ROBOS, REACTOME\_REGULATION\_OF\_EXPRESSION\_OF\_SLITS\_AND\_ROBOS  
 REACTOME\_RESPONSE\_OF\_EIF2AK4\_GCN2\_TO\_AMINO\_ACID\_DEFICIENCY, REACTOME\_RESPONSE\_OF\_EIF2AK4\_GCN2\_TO\_AMINO\_ACID\_DEFICIENCY  
 KEGG\_RIBOSOME, KEGG\_RIBOSOME  
 REACTOME\_NONSENSE\_MEDIATED\_DECAY\_NMD, REACTOME\_NONSENSE\_MEDIATED\_DECAY\_NMD  
 WP\_CYTOPLASMIC\_RIBOSOMAL\_PROTEINS, WP\_CYTOPLASMIC\_RIBOSOMAL\_PROTEINS  
 REACTOME\_SELENOAMINO\_ACID\_METABOLISM, REACTOME\_SELENOAMINO\_ACID\_METABOLISM  
 BILANGES\_SERUM\_AND\_RAPAMYCIN\_SENSITIVE\_GENES, BILANGES\_SERUM\_AND\_RAPAMYCIN\_SENSITIVE\_GENES  
 PECE\_MAMMARY\_STEM\_CELL\_UP, PECE\_MAMMARY\_STEM\_CELL\_UP  
 FLECHNER\_PBL\_KIDNEY\_TRANSPLANT\_OK\_VS\_DONOR\_UP, FLECHNER\_PBL\_KIDNEY\_TRANSPLANT\_OK\_VS\_DONOR\_UP  
 REACTOME\_ACTIVATION\_OF\_THE\_MRNA\_UPON\_BINDING\_OF\_THE\_CAP\_BINDING\_COMPLEX\_AND\_EIFS\_AND\_SUBSEQUENT\_BINDING\_TO\_43S, REACTOME\_ACTIVATION\_OF\_THE\_MRNA\_UPON\_BINDING\_OF\_THE\_CAP\_BINDING\_COMPLEX\_AND\_SUBSEQUENT\_BINDING\_TO\_43S  
 YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_14, YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_14  
 TIEN\_INTESTINE\_PROBIOTICS\_6HR\_UP, TIEN\_INTESTINE\_PROBIOTICS\_6HR\_UP  
 GAVIN\_FOXP3\_TARGETS\_CLUSTER\_T7, GAVIN\_FOXP3\_TARGETS\_CLUSTER\_T7  
 HOSHIDA\_LIVER\_CANCER\_SUBCLASS\_S2, HOSHIDA\_LIVER\_CANCER\_SUBCLASS\_S2  
 REACTOME\_RRNA\_MODIFICATION\_IN\_THE\_NUCLEUS\_AND\_CYTOSOL, REACTOME\_RRNA\_MODIFICATION\_IN\_THE\_NUCLEUS\_AND\_CYTOSOL  
 CHNG\_MULTIPLE\_MYELOMA\_HYPERPLOID\_UP, CHNG\_MULTIPLE\_MYELOMA\_HYPERPLOID\_UP  
 BILANGES\_RAPAMYCIN\_SENSITIVE\_VIA\_TSC1\_AND\_TSC2, BILANGES\_RAPAMYCIN\_SENSITIVE\_VIA\_TSC1\_AND\_TSC2  
 TAKAO\_RESPONSE\_TO\_UVB\_RADIATION\_UP, TAKAO\_RESPONSE\_TO\_UVB\_RADIATION\_UP  
 IRITANI\_MAD1\_TARGETS\_DN, IRITANI\_MAD1\_TARGETS\_DN  
 KAYO\_AGING\_MUSCLE\_DN, KAYO\_AGING\_MUSCLE\_DN  
 DAIRKEE\_CANCER\_PRONE\_RESPONSE\_BPA\_E2, DAIRKEE\_CANCER\_PRONE\_RESPONSE\_BPA\_E2  
 REACTOME\_SARS\_COV\_INFECTIONS, REACTOME\_SARS\_COV\_INFECTIONS  
 DIAZ\_CHRONIC\_MEYLOGENOUS\_LEUKEMIA\_DN, DIAZ\_CHRONIC\_MEYLOGENOUS\_LEUKEMIA\_DN  
 POMEROY\_MEDULLOBLASTOMA\_PROGNOSIS\_DN, POMEROY\_MEDULLOBLASTOMA\_PROGNOSIS\_DN  
 NATSUME\_RESPONSE\_TO\_INTERFERON\_BETA\_DN, NATSUME\_RESPONSE\_TO\_INTERFERON\_BETA\_DN  
 HOLLEMAN\_VINCRISTINE\_RESISTANCE\_ALL\_DN, HOLLEMAN\_VINCRISTINE\_RESISTANCE\_ALL\_DN  
 LINDGREN\_BLADDER\_CANCER\_CLUSTER\_1\_UP, LINDGREN\_BLADDER\_CANCER\_CLUSTER\_1\_UP  
 WATANABE\_RECTAL\_CANCER\_RADIOOTHERAPY\_RESPONSIVE\_UP, WATANABE\_RECTAL\_CANCER\_RADIOOTHERAPY\_RESPONSIVE\_UP  
 ACEVEDO\_NORMAL\_TISSUE\_ADJACENT\_TO\_LIVER\_TUMOR\_UP, ACEVEDO\_NORMAL\_TISSUE\_ADJACENT\_TO\_LIVER\_TUMOR\_UP  
 SWEET\_KRAS\_ONCOGENIC\_SIGNATURE, SWEET\_KRAS\_ONCOGENIC\_SIGNATURE  
 REACTOME\_ANTIGEN\_PROCESSING\_CROSS\_PRESENTATION, REACTOME\_ANTIGEN\_PROCESSING\_CROSS\_PRESENTATION  
 BHATI\_G2M\_ARREST\_BY\_2METHOXYESTRADIOL\_DN, BHATI\_G2M\_ARREST\_BY\_2METHOXYESTRADIOL\_DN  
 FLOTHO\_PEDIATRIC\_ALL\_THERAPY\_RESPONSE\_UP, FLOTHO\_PEDIATRIC\_ALL\_THERAPY\_RESPONSE\_UP  
 REACTOME\_SARS\_COV\_2\_INFECTION, REACTOME\_SARS\_COV\_2\_INFECTION  
 LUI\_THYROID\_CANCER\_PAX8\_PPARG\_DN, LUI\_THYROID\_CANCER\_PAX8\_PPARG\_DN  
 HOLLEMAN\_ASPARAGINASE\_RESISTANCE\_B\_ALL\_UP, HOLLEMAN\_ASPARAGINASE\_RESISTANCE\_B\_ALL\_UP  
 BOUDOUKHA\_BOUND\_BY\_IGF2BP2, BOUDOUKHA\_BOUND\_BY\_IGF2BP2  
 THEILGAARD\_NEUTROPHIL\_AT\_SKIN\_WOUND\_UP, THEILGAARD\_NEUTROPHIL\_AT\_SKIN\_WOUND\_UP  
 REACTOME\_GAP\_FILLING\_DNA\_REPAIR\_SYNTHESIS\_AND\_LIGATION\_IN\_GG\_NER, REACTOME\_GAP\_FILLING\_DNA\_REPAIR\_SYNTHESIS\_AND\_LIGATION\_IN\_GG\_NER  
 MORI\_PLASMA\_CELL\_UP, MORI\_PLASMA\_CELL\_UP  
 HOEBEKE\_LYMPHOID\_STEM\_CELL\_DN, HOEBEKE\_LYMPHOID\_STEM\_CELL\_DN  
 ANDERSEN\_LIVER\_CANCER\_KRT19\_UP, ANDERSEN\_LIVER\_CANCER\_KRT19\_UP  
 REACTOME\_RAS\_PROCESSING, REACTOME\_RAS\_PROCESSING  
 REACTOME\_TNFR1\_INDUCED\_NFKAPPAB\_SIGNALING\_PATHWAY, REACTOME\_TNFR1\_INDUCED\_NFKAPPAB\_SIGNALING\_PATHWAY  
 KEGG\_N\_GLYCAN\_BIOSYNTHESIS, KEGG\_N\_GLYCAN\_BIOSYNTHESIS  
 DIRMEIER\_LMP1\_RESPONSE\_EARLY, DIRMEIER\_LMP1\_RESPONSE\_EARLY  
 TARTE\_PLASMA\_CELL\_VS\_B\_LYMPHOCYTE\_UP, TARTE\_PLASMA\_CELL\_VS\_B\_LYMPHOCYTE\_UP  
 LIU\_NASOPHARYNGEAL\_CARINOMA, LIU\_NASOPHARYNGEAL\_CARINOMA  
 LUI\_TARGETS\_OF\_PAX8\_PPARG\_FUSION, LUI\_TARGETS\_OF\_PAX8\_PPARG\_FUSION  
 REACTOME\_INFECTION\_WITH\_MYCOBACTERIUM\_TUBERCULOSIS, REACTOME\_INFECTION\_WITH\_MYCOBACTERIUM\_TUBERCULOSIS  
 REACTOME\_RESPONSE\_OF\_MTB\_TO\_PHAGOCYTOSIS, REACTOME\_RESPONSE\_OF\_MTB\_TO\_PHAGOCYTOSIS  
 REACTOME\_IRE1ALPHA\_ACTIVATES\_CHAPERONES, REACTOME\_IRE1ALPHA\_ACTIVATES\_CHAPERONES  
 REACTOME\_REGULATION\_OF\_SIGNALING\_BY\_CBL, REACTOME\_REGULATION\_OF\_SIGNALING\_BY\_CBL  
 BLANCO\_MELO\_INFLUENZA\_A\_INFECTION\_A594\_CELLS\_DN, BLANCO\_MELO\_INFLUENZA\_A\_INFECTION\_A594\_CELLS\_DN  
 HEDENFALK\_BREAST\_CANCER\_BRACX\_UP, HEDENFALK\_BREAST\_CANCER\_BRACX\_UP  
 KEGG\_PROTEIN\_EXPORT, KEGG\_PROTEIN\_EXPORT  
 REACTOME\_LATE\_ENDOSOMAL\_MICROAUTOPHAGY, REACTOME\_LATE\_ENDOSOMAL\_MICROAUTOPHAGY  
 REACTOME\_TRANSLESION\_SYNTHESIS\_BY\_POLK, REACTOME\_TRANSLESION\_SYNTHESIS\_BY\_POLK  
 WIERENGA\_PML\_INTERACTOME, WIERENGA\_PML\_INTERACTOME  
 NUTT\_GBM\_VS\_AO\_GLIOMA\_DN, NUTT\_GBM\_VS\_AO\_GLIOMA\_DN  
 BILANGES\_SERUM\_RESPONSE\_TRANSLATION, BILANGES\_SERUM\_RESPONSE\_TRANSLATION  
 LUI\_THYROID\_CANCER\_CLUSTER\_3, LUI\_THYROID\_CANCER\_CLUSTER\_3  
 REACTOME\_NOD1\_2\_SIGNALING\_PATHWAY, REACTOME\_NOD1\_2\_SIGNALING\_PATHWAY  
 REACTOME\_MATURATION\_OF\_SARS\_COV\_2\_SPIKE\_PROTEIN, REACTOME\_MATURATION\_OF\_SARS\_COV\_2\_SPIKE\_PROTEIN  
 YAMASHITA\_LIVER\_CANCER\_WITH\_EPCAM\_UP, YAMASHITA\_LIVER\_CANCER\_WITH\_EPCAM\_UP  
 PURBEY\_TARGETS\_OF\_CTBP1\_AND\_SATB1\_UP, PURBEY\_TARGETS\_OF\_CTBP1\_AND\_SATB1\_UP  
 REACTOME\_NEGATIVE\_REGULATORS\_OF\_DDX58\_IFIH1\_SIGNALING, REACTOME\_NEGATIVE\_REGULATORS\_OF\_DDX58\_IFIH1\_SIGNALING  
 MORI\_SMALL\_PRE\_BII\_LYMPHOCYTE\_DN, MORI\_SMALL\_PRE\_BII\_LYMPHOCYTE\_DN  
 JIANG\_AGING\_CEREBRAL\_CORTEX\_UP, JIANG\_AGING\_CEREBRAL\_CORTEX\_UP  
 KEGG\_VIBRIO\_CHOLERAE\_INFECTION, KEGG\_VIBRIO\_CHOLERAE\_INFECTION  
 REACTOME\_TRANSLESION\_SYNTHESIS\_BY\_POLH, REACTOME\_TRANSLESION\_SYNTHESIS\_BY\_POLH  
 BIOARTA\_PROTEASOME\_PATHWAY, BIOARTA\_PROTEASOME\_PATHWAY  
 HU\_GENOTOXIC\_DAMAGE\_24HR, HU\_GENOTOXIC\_DAMAGE\_24HR  
 REACTOME\_REGULATION\_OF\_TP53\_ACTIVITY\_THROUGH\_METHYLATION, REACTOME\_REGULATION\_OF\_TP53\_ACTIVITY\_THROUGH\_METHYLATION  
 REACTOME\_TRANSLATION\_OF\_SARS\_COV\_2\_STRUCTURAL\_PROTEINS, REACTOME\_TRANSLATION\_OF\_SARS\_COV\_2\_STRUCTURAL\_PROTEINS  
 TIEN\_INTESTINE\_PROBIOTICS\_2HR\_UP, TIEN\_INTESTINE\_PROBIOTICS\_2HR\_UP  
 REACTOME\_REGULATION\_OF\_BACH1\_ACTIVITY, REACTOME\_REGULATION\_OF\_BACH1\_ACTIVITY  
 DAZARD\_UV\_RESPONSE\_CLUSTER\_G1, DAZARD\_UV\_RESPONSE\_CLUSTER\_G1  
 REACTOME\_NEGATIVE\_REGULATION\_OF\_FLT3, REACTOME\_NEGATIVE\_REGULATION\_OF\_FLT3  
 REACTOME\_ONCOGENE\_INDUCED\_SENESCENCE, REACTOME\_ONCOGENE\_INDUCED\_SENESCENCE  
 WATANABE\_RECTAL\_CANCER\_RADIOOTHERAPY\_RESPONSIVE\_DN, WATANABE\_RECTAL\_CANCER\_RADIOOTHERAPY\_RESPONSIVE\_DN  
 BILANGES\_RAPAMYCIN\_SENSITIVE\_GENES, BILANGES\_RAPAMYCIN\_SENSITIVE\_GENES  
 KYNG\_RESPONSE\_TO\_H2O2\_VIA\_ERCC6\_DN, KYNG\_RESPONSE\_TO\_H2O2\_VIA\_ERCC6\_DN  
 IIZUKA\_LIVER\_CANCER\_PROGRESSION\_L0\_L1\_DN, IIZUKA\_LIVER\_CANCER\_PROGRESSION\_L0\_L1\_DN  
 HILLION\_HMGA1\_TARGETS, HILLION\_HMGA1\_TARGETS  
 REACTOME\_ASSEMBLY\_OF\_THE\_HIV\_VIRION, REACTOME\_ASSEMBLY\_OF\_THE\_HIV\_VIRION  
 HILLION\_HMGA1B\_TARGETS, HILLION\_HMGA1B\_TARGETS  
 REACTOME\_DOWNREGULATION\_OF\_SMAD2\_3\_SMAD4\_TRANSCRIPTIONAL\_ACTIVITY, REACTOME\_DOWNREGULATION\_OF\_SMAD2\_3\_SMAD4\_TRANSCRIPTIONAL\_ACTIVITY  
 DIRMEIER\_LMP1\_RESPONSE\_LATE\_DN, DIRMEIER\_LMP1\_RESPONSE\_LATE\_DN  
 REACTOME\_SMAD2\_SMAD3\_SMAD4\_HETEROTRIMER\_REGULATES\_TRANSCRIPTION, REACTOME\_SMAD2\_SMAD3\_SMAD4\_HETEROTRIMER\_REGULATES\_TRANSCRIPTION  
 REACTOME\_NEGATIVE\_REGULATION\_OF\_MAPK\_PATHWAY, REACTOME\_NEGATIVE\_REGULATION\_OF\_MAPK\_PATHWAY  
 REACTOME\_TRANSCRIPTIONAL\_ACTIVITY\_OF\_SMAD2\_SMAD3\_SMAD4\_HETEROTRIMER, REACTOME\_TRANSCRIPTIONAL\_ACTIVITY\_OF\_SMAD2\_SMAD3\_SMAD4\_HETEROTRIMER  
 REACTOME\_IRAK1\_RECRUITS\_IKK\_COMPLEX, REACTOME\_IRAK1\_RECRUITS\_IKK\_COMPLEX  
 TONG\_INTERACT\_WITH\_PTTG1, TONG\_INTERACT\_WITH\_PTTG1  
 PAPASPYRIDONOS\_UNSTABLE\_ATEROSCLEROTIC\_PLAQUE\_UP, PAPASPYRIDONOS\_UNSTABLE\_ATEROSCLEROTIC\_PLAQUE\_UP  
 REACTOME\_OVARIAN\_TUMOR\_DOMAIN\_PROTEASES, REACTOME\_OVARIAN\_TUMOR\_DOMAIN\_PROTEASES