

OTIDE\_EXCISION\_REPAIR, REACTOME\_NUCLEOTIDE\_EXCISION\_REPAIR

WP\_DNA\_REPAIR\_PATHWAYS,FULL\_NETWORK,WP\_DNA\_REPAIR\_PATHWAYS,FULL\_NETWORK  
GOBP\_NUCLEOTIDE\_EXCISION\_REPAIR,GOBP\_NUCLEOTIDE\_EXCISION\_REPAIR  
KEGG\_HUNTINGTONS\_DISEASE,KEGG\_HUNTINGTONS\_DISEASE  
REACTOME\_REGULATION\_OF\_TP53\_ACTIVITY,REACTOME\_REGULATION\_OF\_TP53\_ACTIVITY  
KEGG\_UBIQUITIN\_MEDIATED\_PROTEOLYSIS,KEGG\_UBIQUITIN\_MEDIATED\_PROTEOLYSIS  
REACTOME\_HIV\_LIFE\_CYCLE,REACTOME\_HIV\_LIFE\_CYCLE  
GOBP\_RECOMBINATIONAL\_REPAIR,GOBP\_RECOMBINATIONAL\_REPAIR  
GOBP\_REGULATION\_OF\_PROTEASOMAL\_PROTEIN\_CATABOLIC\_PROCESS,GOBP\_REGULATION\_OF\_PROTEASOMAL\_PROTEIN\_CATABOLIC\_PROCESS  
GSE27241.WT.VS.ROBGT.KO.TH17\_POLARIZED\_CD4\_TCELL\_DN,GSE27241.WT.VS.ROBGT.KO.TH17\_POLARIZED\_CD4\_TCELL\_DN  
GOBP\_NCRNA\_TRANSCRIPTION,GOBP\_NCRNA\_TRANSCRIPTION  
REACTOME\_TRANSCRIPTION\_COUPLED\_NUCLEOTIDE\_EXCISION\_REPAIR\_TC\_NER,REACTOME\_TRANSCRIPTION\_COUPLED\_NUCLEOTIDE\_EXCISION\_REPAIR\_TC\_NER  
REACTOME\_EPIGENETIC\_REGULATION\_OF\_GENE\_EXPRESSION,REACTOME\_EPIGENETIC\_REGULATION\_OF\_GENE\_EXPRESSION  
GOBP\_TRANSCRIPTION\_COUPLED\_NUCLEOTIDE\_EXCISION\_REPAIR,GOBP\_TRANSCRIPTION\_COUPLED\_NUCLEOTIDE\_EXCISION\_REPAIR  
GOBP\_REGULATION\_OF\_UBIQUITIN\_DEPENDENT\_PROTEIN\_CATABOLIC\_PROCESS,GOBP\_REGULATION\_OF\_UBIQUITIN\_DEPENDENT\_PROTEIN\_CATABOLIC\_PROCESS  
GOBP\_REGULATION\_OF\_DNA\_REPAIR,GOBP\_REGULATION\_OF\_DNA\_REPAIR  
GOBP\_NON\_RECOMBINATIONAL\_REPAIR,GOBP\_NON\_RECOMBINATIONAL\_REPAIR  
GOMF\_NUCLEOTIDYLTRANSFERASE\_ACTIVITY,GOMF\_NUCLEOTIDYLTRANSFERASE\_ACTIVITY  
REACTOME\_TRANSCRIPTIONAL\_REGULATION\_BY\_SMALL\_RNAS,REACTOME\_TRANSCRIPTIONAL\_REGULATION\_BY\_SMALL\_RNAS  
GOBP\_REGULATION\_OF\_PROTEASOMAL\_UBIQUITIN\_DEPENDENT\_PROTEIN\_CATABOLIC\_PROCESS,GOBP\_REGULATION\_OF\_PROTEASOMAL\_UBIQUITIN\_DEPENDENT\_PROTEIN\_CATABOLIC\_PROCESS  
GSE29618.PRE.VS.DAY7\_FLU\_VACCINE\_BCELL\_DN,GSE29618.PRE.VS.DAY7\_FLU\_VACCINE\_BCELL\_DN  
REACTOME\_RNA\_POLYMERASE\_II\_TRANSCRIBES\_SNRNA\_GENES,REACTOME\_RNA\_POLYMERASE\_II\_TRANSCRIBES\_SNRNA\_GENES  
GOBP\_SNRNA\_TRANSCRIPTION,GOBP\_SNRNA\_TRANSCRIPTION  
GOCC\_SITE\_OF\_DNA\_DAMAGE,GOCC\_SITE\_OF\_DNA\_DAMAGE  
HP\_TELANGIECTASIA,HP\_TELANGIECTASIA  
REACTOME\_PROCESSING\_OF\_DNA\_DOUBLE\_STRAND\_BREAK\_ENDS,REACTOME\_PROCESSING\_OF\_DNA\_DOUBLE\_STRAND\_BREAK\_ENDS  
REACTOME\_GENE\_SILENCING\_BY\_RNA,REACTOME\_GENE\_SILENCING\_BY\_RNA  
REACTOME\_HDR\_THROUGH\_HOMOLOGOUS\_RECOMBINATION\_HRR,REACTOME\_HDR\_THROUGH\_HOMOLOGOUS\_RECOMBINATION\_HRR  
REACTOME\_NEGATIVE\_EPIGENETIC\_REGULATION\_OF\_RRNA\_EXPRESSION,REACTOME\_NEGATIVE\_EPIGENETIC\_REGULATION\_OF\_RRNA\_EXPRESSION  
REACTOME\_PROTEIN\_UBIQUITINATION,REACTOME\_PROTEIN\_UBIQUITINATION  
REACTOME\_REGULATION\_OF\_TP53\_ACTIVITY\_THROUGH\_PHOSPHORYLATION,REACTOME\_REGULATION\_OF\_TP53\_ACTIVITY\_THROUGH\_PHOSPHORYLATION  
REACTOME\_DUAL\_INCISION\_IN\_TC\_NER,REACTOME\_DUAL\_INCISION\_IN\_TC\_NER  
REACTOME\_RNA\_POLYMERASE\_I\_TRANSCRIPTION,REACTOME\_RNA\_POLYMERASE\_I\_TRANSCRIPTION  
GOMF\_DAMAGED\_DNA\_BINDING,GOMF\_DAMAGED\_DNA\_BINDING  
GOCC\_RNA\_POLYMERASE\_II\_TRANSCRIPTION\_REGULATOR\_COMPLEX,GOCC\_RNA\_POLYMERASE\_II\_TRANSCRIPTION\_REGULATOR\_COMPLEX  
HP\_GAIT\_ATAXIA,HP\_GAIT\_ATAXIA  
GOBP\_POSITIVE\_REGULATION\_OF\_PROTEIN\_MODIFICATION\_BY\_SMALL\_PROTEIN\_CONJUGATION\_OR\_REMOVAL,GOBP\_POSITIVE\_REGULATION\_OF\_PROTEIN\_MODIFICATION\_BY\_SMALL\_PROTEIN\_CONJUGATION\_OR\_REMOVAL  
GOBP\_POSITIVE\_REGULATION\_OF\_CELLULAR\_PROTEIN\_CATABOLIC\_PROCESS,GOBP\_POSITIVE\_REGULATION\_OF\_CELLULAR\_PROTEIN\_CATABOLIC\_PROCESS  
REACTOME\_POSITIVE\_EPIGENETIC\_REGULATION\_OF\_RRNA\_EXPRESSION,REACTOME\_POSITIVE\_EPIGENETIC\_REGULATION\_OF\_RRNA\_EXPRESSION  
WP\_TGFBETA\_SIGNALING\_PATHWAY,WP\_TGFBETA\_SIGNALING\_PATHWAY  
GOCC\_REPLICATION\_FORK,GOCC\_REPLICATION\_FORK  
GOCC\_SWI\_SNF\_SUPERFAMILY\_TYPE\_COMPLEX,GOCC\_SWI\_SNF\_SUPERFAMILY\_TYPE\_COMPLEX  
GOBP\_POSITIVE\_REGULATION\_OF\_PROTEOLYSIS\_INVOLVED\_IN\_CELLULAR\_PROTEIN\_CATABOLIC\_PROCESS,GOBP\_POSITIVE\_REGULATION\_OF\_PROTEOLYSIS\_INVOLVED\_IN\_CELLULAR\_PROTEIN\_CATABOLIC\_PROCESS  
HP\_AMINOACIDURIA,HP\_AMINOACIDURIA  
HP\_ACTION\_TREMOR,HP\_ACTION\_TREMOR  
HP\_APLASIA\_HYPOPLASIA\_OF\_THE\_SKIN,HP\_APLASIA\_HYPOPLASIA\_OF\_THE\_SKIN  
GOCC\_SITE\_OF\_DOUBLE\_STRAND\_BREAK,GOCC\_SITE\_OF\_DOUBLE\_STRAND\_BREAK  
HP\_MELANOMA,HP\_MELANOMA  
REACTOME\_DNA\_DOUBLE\_STRAND\_BREAK\_RESPONSE,REACTOME\_DNA\_DOUBLE\_STRAND\_BREAK\_RESPONSE  
HP\_IRREGULAR\_HYPERPIGMENTATION,HP\_IRREGULAR\_HYPERPIGMENTATION  
AAGWWRNYGGC,UNKNOWN,AAGWWRNYGGC,UNKNOWN  
GOBP\_POSITIVE\_REGULATION\_OF\_RESPONSE\_TO\_DNA\_DAMAGE\_STIMULUS,GOBP\_POSITIVE\_REGULATION\_OF\_RESPONSE\_TO\_DNA\_DAMAGE\_STIMULUS  
GOBP\_POSITIVE\_REGULATION\_OF\_VIRAL\_PROCESS,GOBP\_POSITIVE\_REGULATION\_OF\_VIRAL\_PROCESS  
GOCC\_ATPASE\_COMPLEX,GOCC\_ATPASE\_COMPLEX  
REACTOME\_RNA\_POLYMERASE\_I\_PROMOTER\_ESCAPE,REACTOME\_RNA\_POLYMERASE\_I\_PROMOTER\_ESCAPE  
GOCC\_PML\_BODY,GOCC\_PML\_BODY  
REACTOME\_HOMOLOGOUS\_DNA\_PAIRING\_AND\_STRAND\_EXCHANGE,REACTOME\_HOMOLOGOUS\_DNA\_PAIRING\_AND\_STRAND\_EXCHANGE  
GOCC\_DNA\_REPAIR\_COMPLEX,GOCC\_DNA\_REPAIR\_COMPLEX  
HP\_ABNORMAL\_CONJUNCTIVA\_MORPHOLOGY,HP\_ABNORMAL\_CONJUNCTIVA\_MORPHOLOGY  
HP\_JOINT\_STIFFNESS,HP\_JOINT\_STIFFNESS  
GOMF\_PROTEIN\_N\_TERMINUS\_BINDING,GOMF\_PROTEIN\_N\_TERMINUS\_BINDING  
HP\_HYPOPIGMENTATION\_OF\_THE\_SKIN,HP\_HYPOPIGMENTATION\_OF\_THE\_SKIN  
GOBP\_MAINTENANCE\_OF\_CELL\_NUMBER,GOBP\_MAINTENANCE\_OF\_CELL\_NUMBER  
REACTOME\_INHIBITION\_OF\_DNA\_RECOMBINATION\_AT\_TELOMERE,REACTOME\_INHIBITION\_OF\_DNA\_RECOMBINATION\_AT\_TELOMERE  
GATCKMRGCG,UNKNOWN,GATCKMRGCG,UNKNOWN  
GOBP\_TYPE\_I\_INTERFERON\_PRODUCTION,GOBP\_TYPE\_I\_INTERFERON\_PRODUCTION  
GOBP\_PROTEIN\_MONOUBIQUITINATION,GOBP\_PROTEIN\_MONOUBIQUITINATION  
GOBP\_POSITIVE\_REGULATION\_OF\_PROTEASOMAL\_UBIQUITIN\_DEPENDENT\_PROTEIN\_CATABOLIC\_PROCESS,GOBP\_POSITIVE\_REGULATION\_OF\_PROTEASOMAL\_UBIQUITIN\_DEPENDENT\_PROTEIN\_CATABOLIC\_PROCESS  
GOBP\_TRANSCRIPTION\_BY\_RNA\_POLYMERASE\_I,GOBP\_TRANSCRIPTION\_BY\_RNA\_POLYMERASE\_I  
REACTOME\_P3\_UBIQUITIN\_LICASES\_UBIQUITINATE\_TARGET\_PROTEINS,REACTOME\_P3\_UBIQUITIN\_LICASES\_UBIQUITINATE\_TARGET\_PROTEINS  
GOBP\_POSITIVE\_REGULATION\_OF\_UBIQUITIN\_DEPENDENT\_PROTEIN\_CATABOLIC\_PROCESS,GOBP\_POSITIVE\_REGULATION\_OF\_UBIQUITIN\_DEPENDENT\_PROTEIN\_CATABOLIC\_PROCESS  
GOBP\_NEGATIVE\_REGULATION\_OF\_RESPONSE\_TO\_DNA\_DAMAGE\_STIMULUS,GOBP\_NEGATIVE\_REGULATION\_OF\_RESPONSE\_TO\_DNA\_DAMAGE\_STIMULUS  
RB\_DN.V1.UP,RB\_DN.V1.UP  
HP\_DEVIATION\_OF\_TOES,HP\_DEVIATION\_OF\_TOES  
HP\_HYPOPIGMENTED\_SKIN\_PATCHES,HP\_HYPOPIGMENTED\_SKIN\_PATCHES  
HP\_ILEITIAKOPHIMOSIS,HP\_ILEITIAKOPHIMOSIS  
GOBP\_TELOMERE\_CAPPING,GOBP\_TELOMERE\_CAPPING  
REACTOME\_HDR\_THROUGH\_SINGLE\_STRAND\_ANNHEALING\_SSA,REACTOME\_HDR\_THROUGH\_SINGLE\_STRAND\_ANNHEALING\_SSA  
HP\_DEVIATION\_OF\_THE\_HALLUX,HP\_DEVIATION\_OF\_THE\_HALLUX  
HP\_SCARRING,HP\_SCARRING  
HP\_CEREBRAL\_CALCIFICATION,HP\_CEREBRAL\_CALCIFICATION  
HP\_LACRIMATION\_ABNORMALITY,HP\_LACRIMATION\_ABNORMALITY  
REACTOME\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX,REACTOME\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX  
HP\_DENTAL\_MALOCCLUSION,HP\_DENTAL\_MALOCCLUSION  
REACTOME\_SIGNALING\_BY\_TGFB\_FAMILY\_MEMBERS,REACTOME\_SIGNALING\_BY\_TGFB\_FAMILY\_MEMBERS  
GOCC\_H4\_HISTONE\_ACETYLTRANSFERASE\_COMPLEX,GOCC\_H4\_HISTONE\_ACETYLTRANSFERASE\_COMPLEX  
WP\_EUKARYOTIC\_TRANSCRIPTION\_INITIATION,WP\_EUKARYOTIC\_TRANSCRIPTION\_INITIATION  
METHYL\_CYTOSINE\_DIOXYGENASE\_TET\_UNIPROT,ADAM23HK93\_UNREVIEWED\_TARGET\_GENES,METHYL\_CYTOSINE\_DIOXYGENASE\_TET\_UNIPROT,ADAM23HK93\_UNREVIEWED\_TARGET\_GENES  
HP\_THORACIC\_AORTIC\_ANEURYSM,HP\_THORACIC\_AORTIC\_ANEURYSM  
MORF\_ERCC2,MORF\_ERCC2  
HP\_DEVELOPMENTAL\_CATARACT,HP\_DEVELOPMENTAL\_CATARACT  
GOBP\_PROTEIN\_AUTOUBIQUITINATION,GOBP\_PROTEIN\_AUTOUBIQUITINATION  
GOBP\_REGULATION\_OF\_VIRAL\_TRANSCRIPTION,GOBP\_REGULATION\_OF\_VIRAL\_TRANSCRIPTION  
GOBP\_VIRION\_ASSEMBLY,GOBP\_VIRION\_ASSEMBLY  
HP\_EARLY\_ONSET\_OF\_SEXUAL\_MATURATION,HP\_EARLY\_ONSET\_OF\_SEXUAL\_MATURATION  
GOCC\_INO80\_TYPE\_COMPLEX,GOCC\_INO80\_TYPE\_COMPLEX  
HP\_ARTERIOSCLEROSIS,HP\_ARTERIOSCLEROSIS  
REACTOME\_FANCONI\_ANEMIA\_PATHWAY,REACTOME\_FANCONI\_ANEMIA\_PATHWAY  
HP\_ARTHIROGRIPOSIS\_MULTIFLEX\_CONGENITA,HP\_ARTHIROGRIPOSIS\_MULTIFLEX\_CONGENITA  
GOBP\_REGULATION\_OF\_DOUBLE\_STRAND\_BREAK\_REPAIR\_VIA\_HOMOLOGOUS\_RECOMBINATION,GOBP\_REGULATION\_OF\_DOUBLE\_STRAND\_BREAK\_REPAIR\_VIA\_HOMOLOGOUS\_RECOMBINATION  
HP\_CONGENITAL\_CONTRACTURE,HP\_CONGENITAL\_CONTRACTURE  
MORF\_ORC1L,MORF\_ORC1L  
GOBP\_PEROXISOME\_ORGANIZATION,GOBP\_PEROXISOME\_ORGANIZATION  
HP\_ABNORMALITY\_OF\_THE\_TESTIS\_SIZE,HP\_ABNORMALITY\_OF\_THE\_TESTIS\_SIZE  
GOBP\_NEGATIVE\_REGULATION\_OF\_BINDING,GOBP\_NEGATIVE\_REGULATION\_OF\_BINDING  
GOCC\_COP9\_SIGNALOSOME,GOCC\_COP9\_SIGNALOSOME  
GOMF\_DEOXYRIBONUCLEASE\_ACTIVITY,GOMF\_DEOXYRIBONUCLEASE\_ACTIVITY  
HP\_ECLABION,HP\_ECLABION  
REACTOME\_REGULATED\_NECROSIS,REACTOME\_REGULATED\_NECROSIS  
REACTOME\_ENDOSOMAL\_SORTING\_COMPLEX\_REQUIRED\_FOR\_TRANSPORT\_ESCRT,REACTOME\_ENDOSOMAL\_SORTING\_COMPLEX\_REQUIRED\_FOR\_TRANSPORT\_ESCRT  
GOBP\_REGULATION\_OF\_CELLULAR\_RESPONSE\_TO\_TRANSFORMING\_GROWTH\_FACTOR\_BETA\_STIMULUS,GOBP\_REGULATION\_OF\_CELLULAR\_RESPONSE\_TO\_TRANSFORMING\_GROWTH\_FACTOR\_BETA\_STIMULUS  
REACTOME\_TNF\_SIGNALING,REACTOME\_TNF\_SIGNALING  
REACTOME\_STIMULI\_SENSING\_CHANNELS,REACTOME\_STIMULI\_SENSING\_CHANNELS  
GOBP\_REGULATION\_OF\_TELOMERE\_CAPPING,GOBP\_REGULATION\_OF\_TELOMERE\_CAPPING  
GOMF\_CYSSTEINE\_TYPE\_PEPTIDASE\_ACTIVITY,GOMF\_CYSSTEINE\_TYPE\_PEPTIDASE\_ACTIVITY  
REACTOME\_CIRCADIAN\_CLOCK,REACTOME\_CIRCADIAN\_CLOCK  
HP\_NICOTASM\_OF\_THE\_EYE,HP\_NICOTASM\_OF\_THE\_EYE  
REACTOME\_METALLOPROTEASE\_DUBS,REACTOME\_METALLOPROTEASE\_DUBS  
MODULE\_233,MODULE\_233  
ROESSLER\_LIVER\_CANCER\_METASTASIS\_UP,ROESSLER\_LIVER\_CANCER\_METASTASIS\_UP  
REACTOME\_ER\_QUALITY\_CONTROL\_COMPARTMENT\_ERQC,REACTOME\_ER\_QUALITY\_CONTROL\_COMPARTMENT\_ERQC  
REACTOME\_INTERLEUKIN\_17\_SIGNALING,REACTOME\_INTERLEUKIN\_17\_SIGNALING  
HP\_HALLUX\_VAUGUS,HP\_HALLUX\_VAUGUS  
HP\_ABNORMALITY\_OF\_THE\_SCROTUM,HP\_ABNORMALITY\_OF\_THE\_SCROTUM  
GOBP\_NUCLEOTIDE\_BINDING\_DOMAIN\_LEUCINE\_RICH\_REPEAT\_CONTAINING\_RECEPTOR\_SIGNALING\_PATHWAY,GOBP\_NUCLEOTIDE\_BINDING\_DOMAIN\_LEUCINE\_RICH\_REPEAT\_CONTAINING\_RECEPTOR\_SIGNALING\_PATHWAY  
HP\_TELANGIECTASIA\_OF\_THE\_SKIN,HP\_TELANGIECTASIA\_OF\_THE\_SKIN  
MIR1217,MIR1217  
HP\_ESODEVIATION,HP\_ESODEVIATION  
GOBP\_PEROXISOMAL\_TRANSPORT,GOBP\_PEROXISOMAL\_TRANSPORT  
HP\_PERIVENTRICULAR\_LEUKOMALACIA,HP\_PERIVENTRICULAR\_LEUKOMALACIA  
REACTOME\_SIGNALING\_BY\_EGFR,REACTOME\_SIGNALING\_BY\_EGFR  
HP\_POSTURAL\_INSTABILITY,HP\_POSTURAL\_INSTABILITY  
HP\_FRAGILE\_NAILS,HP\_FRAGILE\_NAILS  
KEGG\_HOMOLOGOUS\_RECOMBINATION,KEGG\_HOMOLOGOUS\_RECOMBINATION  
REACTOME\_REGULATION\_OF\_TP53\_EXPRESSION\_AND\_DEGRADATION,REACTOME\_REGULATION\_OF\_TP53\_EXPRESSION\_AND\_DEGRADATION  
REACTOME\_SIGNALING\_BY\_MET,REACTOME\_SIGNALING\_BY\_MET  
HP\_BILATERAL\_SENSORINEURAL\_HEARING\_IMPAIRMENT,HP\_BILATERAL\_SENSORINEURAL\_HEARING\_IMPAIRMENT  
HP\_MUCOSAL\_TELANGIECTASIAE,HP\_MUCOSAL\_TELANGIECTASIAE  
GOBP\_NEGATIVE\_REGULATION\_OF\_TRANSFORMING\_GROWTH\_FACTOR\_BETA\_RECEPTOR\_SIGNALING\_PATHWAY,GOBP\_NEGATIVE\_REGULATION\_OF\_TRANSFORMING\_GROWTH\_FACTOR\_BETA\_RECEPTOR\_SIGNALING\_PATHWAY  
REACTOME\_GLYCOGEN\_METABOLISM,REACTOME\_GLYCOGEN\_METABOLISM  
GOBP\_REGULATION\_OF\_TRANSCRIPTION\_BY\_RNA\_POLYMERASE\_I,GOBP\_REGULATION\_OF\_TRANSCRIPTION\_BY\_RNA\_POLYMERASE\_I  
REACTOME\_BUDDING\_AND\_MATURATION\_OF\_HIV\_VIRION,REACTOME\_BUDDING\_AND\_MATURATION\_OF\_HIV\_VIRION  
REACTOME\_AMYLOID\_FIBER\_FORMATION,REACTOME\_AMYLOID\_FIBER\_FORMATION  
GOMF\_DNA\_CLAMP\_LOADER\_ACTIVITY,GOMF\_DNA\_CLAMP\_LOADER\_ACTIVITY  
GOMF\_ENDOPEOXYRIBONUCLEASE\_ACTIVITY,GOMF\_ENDOPEOXYRIBONUCLEASE\_ACTIVITY  
REACTOME\_EGFR\_DOWREGULATION,REACTOME\_EGFR\_DOWREGULATION  
HP\_CEREBRAL\_WHITE\_MATTER\_ATROPHY,HP\_CEREBRAL\_WHITE\_MATTER\_ATROPHY  
REACTOME\_CYTOSOLIC\_IRON\_SULFUR\_CLUSTER\_ASSEMBLY,REACTOME\_CYTOSOLIC\_IRON\_SULFUR\_CLUSTER\_ASSEMBLY  
REACTOME\_TGF\_BETA\_RECEPTOR\_SIGNALING\_ACTIVATES\_SMADS,REACTOME\_TGF\_BETA\_RECEPTOR\_SIGNALING\_ACTIVATES\_SMADS  
REACTOME\_RIPK1\_MEDIATED\_REGULATED\_NECROSIS,REACTOME\_RIPK1\_MEDIATED\_REGULATED\_NECROSIS  
GOCC\_CTRF8\_RFC\_LIKE\_COMPLEX,GOCC\_CTRF8\_RFC\_LIKE\_COMPLEX  
GOBP\_NEGATIVE\_REGULATION\_OF\_TRANSMEMBRANE\_RECEPTOR\_PROTEIN\_SERINE\_THREONINE\_KINASE\_SIGNALING\_PATHWAY,GOBP\_NEGATIVE\_REGULATION\_OF\_TRANSMEMBRANE\_RECEPTOR\_PROTEIN\_SERINE\_THREONINE\_KINASE\_SIGNALING\_PATHWAY  
HP\_URTICARIA,HP\_URTICARIA  
GOBP\_DNA\_LIGATION,GOBP\_DNA\_LIGATION  
REACTOME\_FLT3\_SIGNALING\_IN\_DISEASE,REACTOME\_FLT3\_SIGNALING\_IN\_DISEASE  
WP\_GENES\_INVOLVED\_IN\_MALE\_INFERTILITY,WP\_GENES\_INVOLVED\_IN\_MALE\_INFERTILITY  
HP\_ANOPHTHALMIA,HP\_ANOPHTHALMIA  
HP\_PROGEROID\_FACIAL\_APPEARANCE,HP\_PROGEROID\_FACIAL\_APPEARANCE  
HP\_ABNORMALITY\_OF\_THE\_ILIUM,HP\_ABNORMALITY\_OF\_THE\_ILIUM  
GOBP\_MITOCHONDRIAL\_GENOME\_MAINTENANCE,GOBP\_MITOCHONDRIAL\_GENOME\_MAINTENANCE  
HP\_ABNORMALITY\_OF\_SUBCUTANEOUS\_FAT\_TISSUE,HP\_ABNORMALITY\_OF\_SUBCUTANEOUS\_FAT\_TISSUE  
HP\_RETINAL\_HEMORRHAGE,HP\_RETINAL\_HEMORRHAGE  
HP\_OPEN\_BITE,HP\_OPEN\_BITE  
GOBP\_TELOMERE\_MAINTENANCE\_IN\_RESPONSE\_TO\_DNA\_DAMAGE,GOBP\_TELOMERE\_MAINTENANCE\_IN\_RESPONSE\_TO\_DNA\_DAMAGE  
REACTOME\_DISEASES\_OF\_CARBOHYDRATE\_METABOLISM,REACTOME\_DISEASES\_OF\_CARBOHYDRATE\_METABOLISM  
REACTOME\_FLT3\_SIGNALING,REACTOME\_FLT3\_SIGNALING  
HP\_REDUCED\_SUBCUTANEOUS\_ADIPOSE\_TISSUE,HP\_REDUCED\_SUBCUTANEOUS\_ADIPOSE\_TISSUE  
GOMF\_OXIDIZED\_DNA\_BINDING,GOMF\_OXIDIZED\_DNA\_BINDING  
REACTOME\_LISTERIA\_MONOCYTOGENES\_ENTRY\_INTO\_HOST\_CELLS,REACTOME\_LISTERIA\_MONOCYTOGENES\_ENTRY\_INTO\_HOST\_CELLS  
REACTOME\_REGULATION\_OF\_TP53\_ACTIVITY\_THROUGH\_HYPERPHOSPHORYLATION,REACTOME\_REGULATION\_OF\_TP53\_ACTIVITY\_THROUGH\_HYPERPHOSPHORYLATION  
REACTOME\_REGULATION\_OF\_SIGNALING\_BY\_CBL,REACTOME\_REGULATION\_OF\_SIGNALING\_BY\_CBL  
REACTOME\_INLNB\_MEDIATED\_ENTRY\_OF\_LISTERIA\_MONOCYTOGENES\_INTO\_HOST\_CELL,REACTOME\_INLNB\_MEDIATED\_ENTRY\_OF\_LISTERIA\_MONOCYTOGENES\_INTO\_HOST\_CELL  
REACTOME\_NEGATIVE\_REGULATION\_OF\_MET\_ACTIVITY,REACTOME\_NEGATIVE\_REGULATION\_OF\_MET\_ACTIVITY  
GOBP\_PROTECTION\_FROM\_NON\_HOMOLOGOUS\_END\_JOINING\_AT\_TELOMERE,GOBP\_PROTECTION\_FROM\_NON\_HOMOLOGOUS\_END\_JOINING\_AT\_TELOMERE  
HP\_LOWER\_LIMB\_AMYOTROPHY,HP\_LOWER\_LIMB\_AMYOTROPHY  
HP\_ABNORMAL\_NASOLACRIMAL\_SYSTEM\_MORPHOLOGY,HP\_ABNORMAL\_NASOLACRIMAL\_SYSTEM\_MORPHOLOGY  
MIR5011\_3P,MIR5011\_3P  
LEE\_METASTASIS\_AND\_ALTERNATIVE\_SPLICING\_DN,LEE\_METASTASIS\_AND\_ALTERNATIVE\_SPLICING\_DN  
HP\_JUVENILE\_ASEPTIC\_NECROSIS,HP\_JUVENILE\_ASEPTIC\_NECROSIS  
GOBP\_POSITIVE\_REGULATION\_OF\_TRANSMEMBRANE\_RECEPTOR\_PROTEIN\_SERINE\_THREONINE\_KINASE\_SIGNALING\_PATHWAY,GOBP\_POSITIVE\_REGULATION\_OF\_TRANSMEMBRANE\_RECEPTOR\_PROTEIN\_SERINE\_THREONINE\_KINASE\_SIGNALING\_PATHWAY  
REACTOME\_SIGNALING\_BY\_FGFR3,REACTOME\_SIGNALING\_BY\_FGFR3  
HP\_HYPOPLASTIC\_ILIJA,HP\_HYPOPLASTIC\_ILIJA  
REACTOME\_JOSEPHIN\_DOMAIN\_DUBS,REACTOME\_JOSEPHIN\_DOMAIN\_DUBS  
HP\_ABNORMALITY\_OF\_THE\_WING\_OF\_THE\_ILIUM,HP\_ABNORMALITY\_OF\_THE\_WING\_OF\_THE\_ILIUM  
REACTOME\_SIGNALING\_BY\_NOTCH2,REACTOME\_SIGNALING\_BY\_NOTCH2  
REACTOME\_GLYCOGEN\_SYNTHESIS,REACTOME\_GLYCOGEN\_SYNTHESIS  
GOCC\_H4\_H2A\_HISTONE\_ACETYLTRANSFERASE\_COMPLEX,GOCC\_H4\_H2A\_HISTONE\_ACETYLTRANSFERASE\_COMPLEX  
HP\_ABNORMALITY\_OF\_THE\_RADIAL\_HEAD,HP\_ABNORMALITY\_OF\_THE\_RADIAL\_HEAD  
REACTOME\_TGF\_BETA\_RECEPTOR\_SIGNALING\_IN\_EMT\_EPITHELIAL\_TO\_MESENCHYMAL\_TRANSITION,REACTOME\_TGF\_BETA\_RECEPTOR\_SIGNALING\_IN\_EMT\_EPITHELIAL\_TO\_MESENCHYMAL\_TRANSITION  
HP\_HEMORRHAGE\_OF\_THE\_EYE,HP\_HEMORRHAGE\_OF\_THE\_EYE  
HP\_ECTROPION,HP\_ECTROPION  
REACTOME\_SIGNALING\_BY\_ERBB2,REACTOME\_SIGNALING\_BY\_ERBB2  
REACTOME\_NOTCH3\_ACTIVATION\_AND\_TRANSMISSION\_OF\_SIGNAL\_TO\_THE\_NUCLEUS,REACTOME\_NOTCH2\_ACTIVATION\_AND\_TRANSMISSION\_OF\_SIGNAL\_TO\_THE\_NUCLEUS  
REACTOME\_SIGNALING\_BY\_FGFR1,REACTOME\_SIGNALING\_BY\_FGFR1  
GOBP\_POSITIVE\_REGULATION\_OF\_DOUBLE\_STRAND\_BREAK\_REPAIR\_VIA\_HOMOLOGOUS\_RECOMBINATION,GOBP\_POSITIVE\_REGULATION\_OF\_DOUBLE\_STRAND\_BREAK\_REPAIR\_VIA\_HOMOLOGOUS\_RECOMBINATION  
GOBP\_ADHERENS\_JUNCTION\_ASSEMBLY,GOBP\_ADHERENS\_JUNCTION\_ASSEMBLY  
GOBP\_SMAD\_PROTEIN\_COMPLEX\_ASSEMBLY,GOBP\_SMAD\_PROTEIN\_COMPLEX\_ASSEMBLY  
REACTOME\_IRAK1\_RECRUITS\_IKK\_COMPLEX,REACTOME\_IRAK1\_RECRUITS\_IKK\_COMPLEX  
HP\_ABNORMALITY\_OF\_THE\_FORAMEN\_MAGNUM,HP\_ABNORMALITY\_OF\_THE\_FORAMEN\_MAGNUM  
REACTOME\_SPIRY\_REGULATION\_OF\_FGF\_SIGNALING,REACTOME\_SPIRY\_REGULATION\_OF\_FGF\_SIGNALING  
HP\_INCREASED\_BLOOD\_UREA\_NITROGEN,HP\_INCREASED\_BLOOD\_UREA\_NITROGEN  
BIOCARTA\_RANBP2\_PATHWAY,BIOCARTA\_RANBP2\_PATHWAY  
GOBP\_POSITIVE\_REGULATION\_OF\_TRANSCRIPTION\_BY\_RNA\_POLYMERASE\_III,GOBP\_POSITIVE\_REGULATION\_OF\_TRANSCRIPTION\_BY\_RNA\_POLYMERASE\_III  
FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_INFLUENZA\_VACCINE\_CORRELATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_DVD,NEGATIVE,FRANCO\_BLOOD\_SANOFI\_PASTEUR\_SA\_INACTIVATED\_INFLUENZA\_VACCINE\_CORRELATED\_WITH\_ANTIBODY\_RESPONSE\_AGE\_18\_40YO\_DVD,NEGATIVE  
HP\_URETEROPELVIC\_JUNCTION\_OBSTRUCTION,HP\_URETEROPELVIC\_JUNCTION\_OBSTRUCTION  
HP\_HYPOPLASTIC\_PELVIS,HP\_HYPOPLASTIC\_PELVIS  
HP\_DELAYED\_ERUPTION\_OF\_PRIMARY\_TEETH,HP\_DELAYED\_ERUPTION\_OF\_PRIMARY\_TEETH  
REACTOME\_P75NTR\_RECRUITS\_SIGNALING\_COMPLEXES,REACTOME\_P75NTR\_RECRUITS\_SIGNALING\_COMPLEXES  
ZHAN\_LATE\_DIFFERENTIATION\_GENES\_DN,ZHAN\_LATE\_DIFFERENTIATION\_GENES\_DN  
REACTOME\_RESPONSE\_TO\_HYDROPEROXIDE,GOBP\_RESPONSE\_TO\_HYDROPEROXIDE  
HP\_HYPOPLASTIC\_ILIAC\_WING,HP\_HYPOPLASTIC\_ILIAC\_WING  
REACTOME\_ACTIVATION\_OF\_IRF3\_IRF7\_MEDIATED\_BY\_TBK1\_IKK\_EPSILON,REACTOME\_ACTIVATION\_OF\_IRF3\_IRF7\_MEDIATED\_BY\_TBK1\_IKK\_EPSILON  
HP\_POSITIVE\_ROMBERG\_SIGN,HP\_POSITIVE\_ROMBERG\_SIGN  
GOBP\_RESPONSE\_TO\_UV\_C,GOBP\_RESPONSE\_TO\_UV\_C  
REACTOME\_NOTCH3\_ACTIVATION\_AND\_TRANSMISSION\_OF\_SIGNAL\_TO\_THE\_NUCLEUS,REACTOME\_NOTCH3\_ACTIVATION\_AND\_TRANSMISSION\_OF\_SIGNAL\_TO\_THE\_NUCLEUS  
HP\_ANODONTIA,HP\_ANODONTIA  
HP\_SHOULDER\_GIRDLE\_MUSCLE\_ATROPHY,HP\_SHOULDER\_GIRDLE\_MUSCLE\_ATROPHY  
GOBP\_RESOLUTION\_OF\_MEIOTIC\_RECOMBINATION\_INTERMEDIATES,GOBP\_RESOLUTION\_OF\_MEIOTIC\_RECOMBINATION\_INTERMEDIATES  
HP\_HYPOHIDROSIS,HP\_HYPOHIDROSIS  
ABDELMOHSEN\_ELAVL4\_TARGETS,ABDELMOHSEN\_ELAVL4\_TARGETS  
REACTOME\_NRF\_SIGNALS\_CELL\_DEATH\_FROM\_THE\_NUCLEUS,REACTOME\_NRF\_SIGNALS\_CELL\_DEATH\_FROM\_THE\_NUCLEUS  
REACTOME\_GLYCOGEN\_STORAGE\_DISEASES,REACTOME\_GLYCOGEN\_STORAGE\_DISEASES  
REACTOME\_MAPK3\_TL2\_DEPENDENT\_MAPK1\_3\_ACTIVATION,REACTOME\_MAPK3\_TL2\_DEPENDENT\_MAPK1\_3\_ACTIVATION  
REACTOME\_SIGNALING\_BY\_NOTCH1\_HD\_DOMAIN\_MUTANTS\_IN\_CANCER,REACTOME\_SIGNALING\_BY\_NOTCH1\_HD\_DOMAIN\_MUTANTS\_IN\_CANCER  
HP\_PREMATURE\_CORONARY\_ARTERY\_ATHEROSCLEROSIS,HP\_PREMATURE\_CORONARY\_ARTERY\_ATHEROSCLEROSIS  
chr8q11,chr8q11  
REACTOME\_MYOCLONIC\_EPILEPSY\_OF\_LAFORA,REACTOME\_MYOCLONIC\_EPILEPSY\_OF\_LAFORA  
REACTOME\_SIGNALING\_BY\_ERBB4,REACTOME\_SIGNALING\_BY\_ERBB4  
GOCC\_DNA\_REPLICATION\_FACTOR\_A\_COMPLEX,GOCC\_DNA\_REPLICATION\_FACTOR\_A\_COMPLEX  
REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR3\_SIGNALING,REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR3\_SIGNALING  
HP\_ABNORMAL\_PELVIS\_BONE\_MORPHOLOGY,HP\_ABNORMAL\_PELVIS\_BONE\_MORPHOLOGY  
GOBP\_ACTIVATION\_OF\_JNKK\_ACTIVITY,GOBP\_ACTIVATION\_OF\_JNKK\_ACTIVITY  
GOMF\_PROTEIN\_ADP\_RIBOSYLASE\_ACTIVITY,GOMF\_PROTEIN\_ADP\_RIBOSYLASE\_ACTIVITY  
GOMF\_STRUCTURAL\_CONSTITUENT\_OF\_SYNAPSE,GOMF\_STRUCTURAL\_CONSTITUENT\_OF\_SYNAPSE  
BRF2\_TARGET\_GENES,BRF2\_TARGET\_GENES  
GOMF\_NADPLUS\_ADP\_RIBOSYLTRANSFERASE\_ACTIVITY,GOMF\_NADPLUS\_ADP\_RIBOSYLTRANSFERASE\_ACTIVITY  
DAZARD\_UV\_RESPONSE\_CLUSTER\_G3,DAZARD\_UV\_RESPONSE\_CLUSTER\_G3  
REACTOME\_NEGATIVE\_REGULATION\_OF\_FLT3,REACTOME\_NEGATIVE\_REGULATION\_OF\_FLT3  
VANHARANTA\_UTERINE\_FIBROID\_UP,VANHARANTA\_UTERINE\_FIBROID\_UP  
HP\_URETERAL\_STENOSIS,HP\_URETERAL\_STENOSIS  
ZN23\_TARGET\_GENES,ZN23\_TARGET\_GENES  
HOGGERKORP\_CD44\_TARGETS\_TEMPORAL\_DN,HOGGERKORP\_CD44\_TARGETS\_TEMPORAL\_DN  
REACTOME\_ASSEMBLY\_OF\_THE\_HIV\_VIRION,REACTOME\_ASSEMBLY\_OF\_THE\_HIV\_VIRION  
HP\_DISTAL\_ARTHIROGRIPOSIS,HP\_DISTAL\_ARTHIROGRIPOSIS  
GOBP\_ACTIVATION\_OF\_NF\_KAPPAB\_INDUCING\_KINASE\_ACTIVITY,GOBP\_ACTIVATION\_OF\_NF\_KAPPAB\_INDUCING\_KINASE\_ACTIVITY  
REACTOME\_CHAPERONE\_MEDIATED\_AUTOPHAGY,REACTOME\_CHAPERONE\_MEDIATED\_AUTOPHAGY  
REACTOME\_FLT3\_SIGNALING\_BY\_CBL\_MUTANTS,REACTOME\_FLT3\_SIGNALING\_BY\_CBL\_MUTANTS  
REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR1\_SIGNALING,REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR1\_SIGNALING  
GOBP\_POSITIVE\_REGULATION\_OF\_ASTROCYTE\_DIFFERENTIATION,GOBP\_POSITIVE\_REGULATION\_OF\_ASTROCYTE\_DIFFERENTIATION  
HP\_SYRINGOMYELIA,HP\_SYRINGOMYELIA  
GOBP\_POSITIVE\_REGULATION\_OF\_DNA\_LIGATION,GOBP\_POSITIVE\_REGULATION\_OF\_DNA\_LIGATION  
WP\_1Q21L\_COPY\_NUMBER\_VARIATION\_SYNDROME,WP\_1Q21L\_COPY\_NUMBER\_VARIATION\_SYNDROME  
GOBP\_HYPOTHALAMUS\_DEVELOPMENT,GOBP\_HYPOTHALAMUS\_DEVELOPMENT  
REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR2\_SIGNALING,REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR2\_SIGNALING  
GOBP\_HYPOTHALAMUS\_CELL\_DIFFERENTIATION,GOBP\_HYPOTHALAMUS\_CELL\_DIFFERENTIATION  
GOBP\_REGULATION\_OF\_DNA\_LIGATION,GOBP\_REGULATION\_OF\_DNA\_LIGATION  
GOBP\_NEGATIVE\_REGULATION\_OF\_NUCLEOTIDE\_METABOLIC\_PROCESS,GOBP\_NEGATIVE\_REGULATION\_OF\_NUCLEOTIDE\_METABOLIC\_PROCESS  
REACTOME\_INLA\_MEDIATED\_ENTRY\_OF\_LISTERIA\_MONOCYTOGENES\_INTO\_HOST\_CELLS,REACTOME\_INLA\_MEDIATED\_ENTRY\_OF\_LISTERIA\_MONOCYTOGENES\_INTO\_HOST\_CELLS  
GOBP\_RESPONSE\_TO\_AUDITORY\_STIMULUS,GOBP\_RESPONSE\_TO\_AUDITORY\_STIMULUS  
REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR4\_SIGNALING,REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR4\_SIGNALING  
GOBP\_POSITIVE\_REGULATION\_OF\_HEART\_GROWTH,GOBP\_POSITIVE\_REGULATION\_OF\_HEART\_GROWTH  
GOBP\_POSITIVE\_REGULATION\_OF\_TRANSCRIPTION\_REGULATORY\_REGION\_DNA\_BINDING,GOBP\_POSITIVE\_REGULATION\_OF\_TRANSCRIPTION\_REGULATORY\_REGION\_DNA\_BINDING  
GOMF\_SUMO\_POLYMER\_BINDING,GOMF\_SUMO\_POLYMER\_BINDING  
GOBP\_NORENINEPHRISE\_TRANSPORT,GOBP\_NORENINEPHRISE\_TRANSPORT  
GOBP\_REGULATION\_OF\_TRANSCRIPTION\_REGULATORY\_REGION\_DNA\_BINDING,GOBP\_REGULATION\_OF\_TRANSCRIPTION\_REGULATORY\_REGION\_DNA\_BINDING  
GOBP\_REGULATION\_OF\_ASTROCYTE\_DIFFERENTIATION,GOBP\_REGULATION\_OF\_ASTROCYTE\_DIFFERENTIATION  
HP\_APLASIA\_HYPOPLASIA\_OF\_THE\_SCAPULAE,HP\_APLASIA\_HYPOPLASIA\_OF\_THE\_SCAPULAE  
GOBP\_CENTRAL\_NERVOUS\_SYSTEM\_MYELIN\_FORMATION,GOBP\_CENTRAL\_NERVOUS\_SYSTEM\_MYELIN\_FORMATION  
chr7p21,chr7p21