Interferon Signaling (R-HSA-913531) EPHA-mediated growth cone collapse (R-HSA-3928663) Golgi Associated Vesicle Biogenesis (R–HSA–432722) Nuclear Events (kinase and transcription factor activation) (R-HSA-198725) PTK6 Expression (R-HSA-8849473) 2 HS-GAG degradation (R-HSA-2024096) Potential therapeutics for SARS (R-HSA-9679191) NOTCH3 Intracellular Domain Regulates Transcription (R–HSA–9013508) Neutrophil degranulation (R–HSA–6798695) 0 Regulation of gene expression by Hypoxia-inducible Factor (R-HSA-1234158) Phosphate bond hydrolysis by NUDT proteins (R–HSA–2393930) Respiratory electron transport, ATP synthesis by chemiosmotic coupling, and heat production by uncoupling proteins. (R–HSA–163200) Cristae formation (R–HSA–8949613) Endosomal/Vacuolar pathway (R-HSA-1236977) Innate Immune System (R–HSA–168249) Asparagine N-linked glycosylation (R-HSA-446203) Gluconeogenesis (R-HSA-70263) HIV Infection (R-HSA-162906) Branched-chain amino acid catabolism (R-HSA-70895) DNA Damage Recognition in GG-NER (R-HSA-5696394) SARS-CoV Infections (R-HSA-9679506) Deubiquitination (R-HSA-5688426) Platelet degranulation (R-HSA-114608) S Phase (R-HSA-69242) Eukaryotic Translation Elongation (R-HSA-156842) Formation of ATP by chemiosmotic coupling (R-HSA-163210) Regulation of TNFR1 signaling (R–HSA–5357905) Iron uptake and transport (R-HSA-917937) Abasic sugar-phosphate removal via the single-nucleotide replacement pathway (R-HSA-73930) TFAP2A acts as a transcriptional repressor during retinoic acid induced cell differentiation (R-HSA-8869496) Stimuli–sensing channels (R–HSA–2672351) Amyloid fiber formation (R-HSA-977225) Transport of fatty acids (R-HSA-804914) Translation (R-HSA-72766) Metabolism of RNA (R-HSA-8953854) Mitochondrial protein import (R-HSA-1268020) Cdc20:Phospho-APC/C mediated degradation of Cyclin A (R-HSA-174184) Transcriptional Regulation by TP53 (R-HSA-3700989) RNA Polymerase III Transcription Termination (R–HSA–73980) Neddylation (R-HSA-8951664) Nucleotide Excision Repair (R-HSA-5696398) Cell Cycle (R–HSA–1640170) Gene expression (Transcription) (R–HSA–74160) Kinesins (R-HSA-983189) Rev-mediated nuclear export of HIV RNA (R-HSA-165054) Apoptosis induced DNA fragmentation (R–HSA–140342) Interconversion of nucleotide di– and triphosphates (R–HSA–499943) Synthesis of active ubiquitin: roles of E1 and E2 enzymes (R-HSA-8866652) Fanconi Anemia Pathway (R–HSA–6783310) Processing of Capped Intron–Containing Pre–mRNA (R–HSA–72203) Influenza Viral RNA Transcription and Replication (R–HSA–168273) Cell-Cell communication (R-HSA-1500931) Post–translational protein modification (R–HSA–597592) RHO GTPases Activate ROCKs (R-HSA-5627117) Signaling by cytosolic FGFR1 fusion mutants (R–HSA–1839117) Unfolded Protein Response (UPR) (R-HSA-381119) FOXO-mediated transcription (R-HSA-9614085) Signaling by TGF-beta Receptor Complex (R-HSA-170834) RAB GEFs exchange GTP for GDP on RABs (R-HSA-8876198) Apoptotic cleavage of cellular proteins (R-HSA-111465) Attenuation phase (R-HSA-3371568) Infectious disease (R-HSA-5663205) VEGFA-VEGFR2 Pathway (R-HSA-4420097) Signaling by Non-Receptor Tyrosine Kinases (R-HSA-9006927) Chromatin organization (R-HSA-4839726) Intracellular signaling by second messengers (R-HSA-9006925) RHO GTPase Effectors (R–HSA–195258) Tetrahydrobiopterin (BH4) synthesis, recycling, salvage and regulation (R–HSA–1474151) Translocation of SLC2A4 (GLUT4) to the plasma membrane (R-HSA-1445148) Signaling by NTRK3 (TRKC) (R-HSA-9034015) Regulation of mRNA stability by proteins that bind AU-rich elements (R-HSA-450531) Diseases of signal transduction by growth factor receptors and second messengers (R-HSA-5663202) cell division (R-HSA-68884) Signaling by Rho GTPases (R-HSA-194315) ESR-mediated signaling (R-HSA-8939211) Signaling by NTRK1 (TRKA) (R-HSA-187037) Defective B4GALT1 causes B4GALT1-CDG (CDG-2d) (R-HSA-4793953) HDACs deacetylate histones (R-HSA-3214815) Regulation of MECP2 expression and activity (R-HSA-9022692) Transcriptional regulation by small RNAs (R-HSA-5578749) Apoptotic execution phase (R–HSA–75153) Transport of Ribonucleoproteins into the Host Nucleus (R-HSA-168271) Regulation of HSF1-mediated heat shock response (R-HSA-3371453) Tat-mediated HIV elongation arrest and recovery (R-HSA-167243) RHO GTPases activate IQGAPs (R-HSA-5626467) tRNA Aminoacylation (R–HSA–379724) Glucose metabolism (R–HSA–70326) Metabolism (R-HSA-1430728) p75NTR recruits signalling complexes (R-HSA-209543) Release of apoptotic factors from the mitochondria (R–HSA–111457) EGR2 and SOX10-mediated initiation of Schwann cell myelination (R-HSA-9619665) Formation of TC-NER Pre-Incision Complex (R-HSA-6781823) Cellular response to heat stress (R–HSA–3371556) RNA Polymerase II Transcription Elongation (R–HSA–75955) Cytosolic tRNA aminoacylation (R–HSA–379716) Signaling by Nuclear Receptors (R–HSA–9006931) Response of EIF2AK1 (HRI) to heme deficiency (R-HSA-9648895) Molybdenum cofactor biosynthesis (R–HSA–947581) Amino acid and derivative metabolism (R–HSA–71291) Mitochondrial translation termination (R–HSA–5419276) ATF4 activates genes in response to endoplasmic reticulum stress (R–HSA–380994) Zinc influx into cells by the SLC39 gene family (R-HSA-442380) HDR through MMEJ (alt–NHEJ) (R–HSA–5685939)

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