4	*	*	*	*	*	*	*	*	*	*	*	KEGG-Rna-degradation(hsa03018)	
4	*	*	*		*	*	*	*		*	*	KEGG-Gap-junction(hsa04540)	0
4	*	*	*	*	*	*	*	*	*	*	*	KEGG-Ubiquitin-mediated-proteolysis(hsa04120)	
4	*	*	*	*	*	*	*	*	*	*	*	KEGG-Pathogenic-escherichia-coli-infection(hsa05130)	-1
*	*	*	*	*	*	*	*	*	*	*	*	KEGG-Mtor-signaling-pathway(hsa04150)	
*	*	*	*	*	*	*	*	*	*	*		KEGG-Linoleic-acid-metabolism(hsa00591)	-2
*	*	*	*	*	*	*	*	*	*	*		KEGG-Steroid-hormone-biosynthesis(hsa00140)	
¥	*	*	*	*	*	*		*	*	*	*	KEGG-Complement-and-coagulation-cascades(hsa04610)	
4	*	*	*	*	*	*	*		*	*	*	KEGG-Neuroactive-ligand-receptor-interaction(hsa04080)	
+	*	*	*	*	*	*	*	*	*	*	*	KEGG-Cytokine-cytokine-receptor-interaction(hsa04060)	
4	*	*	*	*	*	*	*	*	*	*	*	KEGG-Retinol-metabolism(hsa00830)	
*	*	*	*	*	*	*	*	*	*	*	*	KEGG-Olfactory-transduction(hsa04740)	
×	*	*	*	*	*	*	*	*	*	*		KEGG-Arachidonic-acid-metabolism(hsa00590)	
*	*	*	*	*	*	*	*	*	*	*	*	KEGG-Hematopoietic-cell-lineage(hsa04640)	
*	*	*	*	*	*	*	*	*	*	*	*	KEGG-Alpha-linolenic-acid-metabolism(hsa00592)	
*	*	*	*	*	*	*	*	*	*	*	*	KEGG-Dna-replication(hsa03030)	
*	*	*	*	*	*	*	*	*		*	*	KEGG-Mismatch-repair(hsa03430)	
*	*	*	*	*	*	*	*	*		*	*	KEGG-One-carbon-pool-by-folate(hsa00670)	
+	*	*	*		*	*	*	*	*	*	*	KEGG-Base-excision-repair(hsa03410)	
*	*	*	*	*	*	*	*	*	*	*	*	KEGG-Homologous-recombination(hsa03440)	

* * KEGG-Progesterone-mediated-oocyte-maturation(hsa04914)

* KEGG-Oocyte-meiosis(hsa04114) * KEGG-Cell-cycle(hsa04110)

* * KEGG-P53-signaling-pathway(hsa04115)

* * KEGG-Spliceosome(hsa03040)

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* * * KEGG-Purine-metabolism(hsa00230) * KEGG-Graft-versus-host-disease(hsa05332) * KEGG-Allograft-rejection(hsa05330) * KEGG-Autoimmune-thyroid-disease(hsa05320) * * * KEGG-Metabolism-of-xenobiotics-by-cytochrome-p450(hsa00980) * * * KEGG-Glycosphingolipid-biosynthesis-lacto-and-neolacto-series(hsa00601) * KEGG-Cell-adhesion-molecules-cams(hsa04514) KEGG-Asthma(hsa05310) KEGG-Primary-immunodeficiency(hsa05340)

* * KEGG-Folate-biosynthesis(hsa00790) * KEGG-Nucleotide-excision-repair(hsa03420) * KEGG-Pyrimidine-metabolism(hsa00240)

KEGG-Intestinal-immune-network-for-iga-production(hsa04672) * KEGG-Type-i-diabetes-mellitus(hsa04940) * * KEGG-Glycosaminoglycan-biosynthesis-heparan-sulfate(hsa00534) KEGG-Regulation-of-autophagy(hsa04140) * KEGG-Hypertrophic-cardiomyopathy-hcm(hsa05410) * * KEGG-Glycerophospholipid-metabolism(hsa00564) * KEGG-Amyotrophic-lateral-sclerosis-als(hsa05014) * KEGG-Fc-epsilon-ri-signaling-pathway(hsa04664) KEGG-Glycosaminoglycan-biosynthesis-chondroitin-sulfate(hsa00532)

* KEGG-Arrhythmogenic-right-ventricular-cardiomyopathy-arvc(hsa05412)

* * * * * * * KEGG-Aminoacyl-trna-biosynthesis(hsa00970) * KEGG-Valine-leucine-and-isoleucine-degradation(hsa00280) * * KEGG-Hedgehog-signaling-pathway(hsa04340) KEGG-Butanoate-metabolism(hsa00650) * * KEGG-Vegf-signaling-pathway(hsa04370) * * * * KEGG-Ether-lipid-metabolism(hsa00565) * * * KEGG-Tryptophan-metabolism(hsa00380)

KEGG-Apoptosis(hsa04210)

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KEGG-Maturity-onset-diabetes-of-the-young(hsa04950) * * KEGG-Ecm-receptor-interaction(hsa04512) * * * * KEGG-Abc-transporters(hsa02010) KEGG-Taurine-and-hypotaurine-metabolism(hsa00430) KEGG-Nitrogen-metabolism(hsa00910) * * * KEGG-Renin-angiotensin-system(hsa04614) * * * KEGG-Dilated-cardiomyopathy(hsa05414)

* KEGG-Ribosome(hsa03010) * * * KEGG-Oxidative-phosphorylation(hsa00190) * * * KEGG-Parkinsons-disease(hsa05012) * * * KEGG-Alzheimers-disease(hsa05010) * KEGG-Proteasome(hsa03050) * * * * * KEGG-Huntingtons-disease(hsa05016) * * * * KEGG-Cardiac-muscle-contraction(hsa04260)

* * * KEGG-Nod-like-receptor-signaling-pathway(hsa04621) * KEGG-Rig-i-like-receptor-signaling-pathway(hsa04622) * * * * KEGG-Viral-myocarditis(hsa05416) * * * * KEGG-Lysosome(hsa04142) * * * * * * * KEGG-Ascorbate-and-aldarate-metabolism(hsa00053) * * * * * * KEGG-Glutathione-metabolism(hsa00480) * KEGG-Ppar-signaling-pathway(hsa03320) KEGG-Pentose-and-glucuronate-interconversions(hsa00040)

* * KEGG-Leishmania-infection(hsa05140)

KEGG-Steroid-biosynthesis(hsa00100) * * KEGG-Glycolysis-gluconeogenesis(hsa00010)

KEGG-Starch-and-sucrose-metabolism(hsa00500) * * KEGG-Porphyrin-and-chlorophyll-metabolism(hsa00860)

* KEGG-Antigen-processing-and-presentation(hsa04612)

Nonmalignant_3
Nonmalignant_1
Nonmalignant_1
NECC_SCC_2
NECC_SCC_1
NECC_AD
NECC_AD
NECC_4
NECC_3
NECC_3
NECC_3 Nonmalignant_5