

**Supplemental Table 1 Significant Kyoto Encyclopedia of Genes and Genomes pathways by gene set enrichment analysis**

KEGG_NAME	SIZ E	ES	NE S	NO M p- val
DILATED_CARDIOMYOPATHY	90	- 0.5 94	- 1.4 93	0.00 2
GLYCOSAMINOGLYCAN_BIOSYNTHESIS_CHONDROITIN_SULFATE	22	- 0.5 82	- 1.7 09	0.00 6
VIRAL_MYOCARDITIS	68	- 0.6 06	- 1.6 13	0.01 4
HYPERTROPHIC_CARDIOMYOPATHY_HCM	83	- 0.6 02	- 1.4 99	0.01 4
PROXIMAL_TUBULE_BICARBONATE_RECLAMATION	23	- 0.6 31	- 1.5 28	0.01 8
DNA_REPLICATION	36	0.6 22	1.6 33	0.01 9
FOCAL_ADHESION	197	- 0.4 52	- 1.5 05	0.02 0
HOMOLOGOUS_RECOMBINATION	26	0.6 54	1.5 24	0.03 4
NEUROTROPHIN_SIGNALING_PATHWAY	125	- 0.4 48	- 1.5 37	0.03 4
AUTOIMMUNE_THYROID_DISEASE	41	- 0.6 48	- 1.4 94	0.03 7
CARDIAC_MUSCLE_CONTRACTION	73	- 0.5 73	- 1.3 99	0.04 4
NOTCH_SIGNALING_PATHWAY	47	- 0.5 10	- 1.5 64	0.04 6
BASAL_TRANSCRIPTION_FACTORS	35	- 0.5 82	- 1.5 06	0.04 6

