

Table S6 Kyoto Encyclopaedia of Genes and Genomes (KEGG) pathway analysis based on these target genes

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust
hsa04151	PI3K-Akt signaling pathway	39/315	354/8093	2.69E-09	7.14E-07
hsa04110	Cell cycle	20/315	126/8093	6.98E-08	9.28E-06
hsa05215	Prostate cancer	17/315	97/8093	1.57E-07	1.39E-05
hsa05226	Gastric cancer	21/315	149/8093	2.66E-07	1.77E-05
hsa05206	MicroRNAs in cancer	32/315	310/8093	3.63E-07	1.93E-05
hsa04150	mTOR signaling pathway	21/315	155/8093	5.23E-07	2.32E-05
hsa04068	FoxO signaling pathway	19/315	131/8093	6.37E-07	2.42E-05
hsa05212	Pancreatic cancer	14/315	76/8093	1.06E-06	3.53E-05
hsa05161	Hepatitis B	20/315	162/8093	4.29E-06	0.0001193
hsa05165	Human papillomavirus infection	31/315	331/8093	4.49E-06	0.0001193
hsa05210	Colorectal cancer	14/315	86/8093	4.93E-06	0.0001193
hsa05220	Chronic myeloid leukemia	13/315	76/8093	6.14E-06	0.000136
hsa04140	Autophagy - animal	18/315	141/8093	8.13E-06	0.0001629
hsa05221	Acute myeloid leukemia	12/315	67/8093	8.57E-06	0.0001629
hsa05160	Hepatitis C	19/315	157/8093	1.00E-05	0.0001776
hsa05205	Proteoglycans in cancer	22/315	205/8093	1.42E-05	0.0002367
hsa05166	Human T-cell leukemia virus 1 infection	23/315	222/8093	1.62E-05	0.0002533
hsa05223	Non-small cell lung cancer	12/315	72/8093	1.84E-05	0.0002725
hsa04115	p53 signaling pathway	12/315	73/8093	2.13E-05	0.0002984
hsa04218	Cellular senescence	18/315	156/8093	3.30E-05	0.0004392
hsa04390	Hippo signaling pathway	18/315	157/8093	3.60E-05	0.0004497

hsa04550	Signaling pathways regulating pluripotency of stem cells	17/315	143/8093	3.72E-05	0.0004497
hsa01521	EGFR tyrosine kinase inhibitor resistance	12/315	79/8093	4.81E-05	0.0005567
hsa05222	Small cell lung cancer	13/315	92/8093	5.12E-05	0.0005648
hsa05224	Breast cancer	17/315	147/8093	5.31E-05	0.0005648
hsa05211	Renal cell carcinoma	11/315	69/8093	6.31E-05	0.0006452
hsa04010	MAPK signaling pathway	26/315	294/8093	7.28E-05	0.000717
hsa04910	Insulin signaling pathway	16/315	137/8093	7.81E-05	0.0007423
hsa05225	Hepatocellular carcinoma	18/315	168/8093	8.84E-05	0.000811
hsa04510	Focal adhesion	20/315	201/8093	0.0001027	0.0009108
hsa04722	Neurotrophin signaling pathway	14/315	119/8093	0.0002016	0.0017302
hsa04917	Prolactin signaling pathway	10/315	70/8093	0.000344	0.00283
hsa05203	Viral carcinogenesis	19/315	204/8093	0.0003597	0.00283
hsa05213	Endometrial cancer	9/315	58/8093	0.0003617	0.00283
hsa01522	Endocrine resistance	12/315	98/8093	0.000394	0.0029943
hsa04012	ErbB signaling pathway	11/315	85/8093	0.0004237	0.0031208
hsa05218	Melanoma	10/315	72/8093	0.0004341	0.0031208
hsa04933	AGE-RAGE signaling pathway in diabetic complications	12/315	100/8093	0.0004753	0.0033268
hsa04114	Oocyte meiosis	14/315	131/8093	0.0005483	0.0037398
hsa04914	Progesterone-mediated oocyte maturation	12/315	102/8093	0.0005702	0.0037779
hsa05207	Chemical carcinogenesis - receptor activation	19/315	212/8093	0.0005823	0.0037779
hsa04152	AMPK signaling pathway	13/315	120/8093	0.0007552	0.0047828
hsa04371	Apelin signaling pathway	14/315	138/8093	0.000924	0.0057157
hsa04350	TGF-beta signaling pathway	11/315	94/8093	0.0010047	0.006074
hsa05131	Shigellosis	20/315	247/8093	0.0014993	0.0088624

hsa04014	Ras signaling pathway	19/315	232/8093	0.0017153	0.0099186
hsa05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	10/315	89/8093	0.0022982	0.0130071
hsa05214	Glioma	9/315	75/8093	0.0023919	0.0132551
hsa05135	Yersinia infection	13/315	137/8093	0.0025513	0.0138511
hsa04934	Cushing syndrome	14/315	155/8093	0.0028048	0.0149216
hsa05163	Human cytomegalovirus infection	18/315	225/8093	0.0029083	0.0151674
hsa04931	Insulin resistance	11/315	108/8093	0.00313	0.0158579
hsa05170	Human immunodeficiency virus 1 infection	17/315	212/8093	0.0036778	0.0184586
hsa04926	Relaxin signaling pathway	12/315	129/8093	0.0043366	0.0209816
hsa04144	Endocytosis	19/315	252/8093	0.0043383	0.0209816
hsa05219	Bladder cancer	6/315	41/8093	0.0047166	0.0224037
hsa04810	Regulation of actin cytoskeleton	17/315	218/8093	0.0048791	0.0227693
hsa04935	Growth hormone synthesis, secretion and action	11/315	119/8093	0.0064964	0.0297939
hsa05162	Measles	12/315	139/8093	0.0078278	0.0352917
hsa05132	Salmonella infection	18/315	249/8093	0.0083127	0.0368531
hsa05100	Bacterial invasion of epithelial cells	8/315	77/8093	0.0098251	0.0428438