

Table S8. KEGG analyses of upregulated mRNAs in the ceRNA network

id	term	p Value	Enrichment _score	Gene
hsa05321	Inflammatory bowel disease (IBD)	0.013	2.56	HLA-DRB1; NOD2; MAF; TGFB1; IFNGR2
hsa05310	Asthma	0.010	3.45	HLA-DRB1; CD40; CD40LG
hsa05206	MicroRNAs in cancer	0.000	3.22	STMN1; TNN; CYP1B1; CDC25A; SOX4; MARCKS; FSCN1; EZH2; MMP16; CCNE2; CDCA5; HMGA2; BMF; IGF2BP1; DNMT3B
hsa05145	Toxoplasmosis	0.001	2.90	MYD88; HLA-DRB1; PIK3CG; MAP2K6; LAMA1; TYK2; TGFB1; CD40; IFNGR2; CD40LG
hsa05144	Malaria	0.001	3.94	SDC1; MYD88; KLRB1; TGFB1; CD40; CD40LG
hsa05140	Leishmaniasis	0.000	3.68	MARCKSL1; ITGA4; MYD88; HLA-DRB1; PTPN6; CYBA; TGFB1; IFNGR2
hsa04974	Protein digestion and absorption	0.007	2.50	COL24A1; COL11A1; COL5A2; COL10A1; COL1A2; COL27A1; PRCP
hsa04672	Intestinal immune network for IgA production	0.003	3.50	ITGA4; HLA-DRB1; TGFB1; CD40; CD40LG
hsa04666	Fc gamma R-mediated phagocytosis	0.007	2.50	MARCKSL1; VAV3; MARCKS; SCIN; LIMK1; LYN; PLA2G4F
hsa04662	B cell receptor signaling pathway	0.006	2.76	VAV3; RASGRP3; NFKBIE; LYN; PTPN6; RAC3

hsa04614	Renin-angiotensin system	0.005	4.20	ENPEP; PRCP; ANPEP
hsa04380	Osteoclast differentiation	0.005	2.32	TEC; CSF1R; CYBA; MAP2K6; SOCS3; TYK2; TGFB1; SIRPB1; IFNGR2
hsa04360	Axon guidance	0.000	2.76	EPHA2; SLIT2; EPHA5; EFNA5; LIMK1; EPHB4; SMO; UNC5D; SEMA4D; SRGAP1; SEMA7A; EFNB3; SSH2; RAC3; EFNA2
hsa04151	PI3K-Akt signaling pathway	0.013	1.64	EPHA2; LPAR3; TNN; GNG4; ITGA4; EFNA5; CSF1R; SGK1; COL1A2; PIK3CG; CCNE2; CREB3L1; LPAR6; GNG2; LAMA1; EFNA2; LPAR2; LPAR4
hsa04142	Lysosome	0.005	2.36	LAPTM5; AP1S3; LAMP3; IDUA; GUSB; AP1S1; GALNS; CD68; MAN2B1
hsa04015	Rap1 signaling pathway	0.000	2.50	EPHA2; LPAR3; RASGRP3; EFNA5; CSF1R; AFDN; APBB1IP; PLCB2; MAP2K6; RAC3; EFNA2; LPAR2; PRKD2; TIAM1; ADORA2A; LPAR4
hsa03460	Fanconi anemia pathway	0.000	4.77	FANCD2; RMI1; FANCC; BRCA2; FANCI; BLM; FANCA; BRIP1
hsa03440	Homologous recombination	0.008	3.14	RAD54L; BRCA2; BLM; BRIP1
hsa00531	Glycosaminoglycan degradation	0.002	5.08	IDUA; GUSB; GALNS

