

S2 Table. Examples of genes that belong to KEGG pathways in S3 Fig.

KEGG pathway	Category	Genes	P-value
Regulation of actin cytoskeleton	Up-regulated KEGG pathways in CCNY-WT	<u>Arpc1b</u> , Pfn3, Fgf23, <u>Pik3r5</u> , <u>Wasl</u> , Ins2, Fgf1, F2r	0.0934
	Down-regulated KEGG pathways in CCNY-shRNA	Egfr, <u>Chrm5</u> , Fgfr3, <u>Chrm4</u> , <u>Gsn</u> , <u>Itgb8</u> , Fgf16, <u>Itgb5</u> , <u>Mylpf</u> , Fgf22, Pdgfc, <u>Vav2</u> , <u>Iqub</u>	0.0515
Chemokine signaling pathway	Up-regulated KEGG pathways in CCNY-WT	Ccl1, <u>Cxcl1</u> , <u>Ccl2</u> , <u>Pik3r5</u> , <u>Wasl</u> , <u>Ccl7</u> , Cxcl10	0.0982
	Down-regulated KEGG pathways in CCNY-shRNA	<u>Ccl2</u> , Prex1, Ccr10, Rasgrp2, <u>Vav2</u> , Stat1, Cxcl12, Prkx, <u>Ccl7</u> , <u>Iqub</u> , Shc4	0.0651
Cytokine-cytokine receptor interaction	Down-regulated KEGG pathways in CCNY-shRNA	Il4, Egfr, <u>Flt1</u> , <u>Ccl2</u> , <u>Met</u> , Hgf, Cxcl12, Lif, Acvr2a, Ccr10, Eda, Ltb, Ifngr2, Ifngr1, Bmpr1a	0.0068
Focal adhesion	Down-regulated KEGG pathways in CCNY-shRNA	Prkca, Egfr, <u>Flt1</u> , <u>Met</u> , <u>Itgb5</u> , <u>Mylpf</u> , Hgf, <u>Vav2</u> , <u>Itgb8</u> , <u>Reln</u> , Pdgfc, Col11a2, Col11a1, Shc4	0.0150
ECM-receptor interaction	Down-regulated KEGG pathways in CCNY-shRNA	Cd44, <u>Itgb8</u> , <u>Itgb5</u> , <u>Reln</u> , Col11a2, <u>Sdc4</u> , Col11a1, Sv2c	0.0196

*Note that qRT-PCR validated genes are bold underlined.