

**Supplementary Table S1** The primer sequences used for qPCR in this study.

Gene name	Sequence (5'→3')
$\beta$ -actin	F: 5'-GGCACCACA CCTTCTACAATGAG-3' R: 5'-GGATAGCACAGCCTGGATAGCA-3'
C19orf10	F: 5'-GGCGTCGTGCATTCCTTCT-3' R: 5'-CCATTGCTCATTGGTCCCTC-3'

F, forward; R, reverse.

**Supplementary Table S2** The information of the antibodies used in this study.

Antibody name	Company	Catalog #
C19orf10	Proteintech Group Inc, Wuhan, China	11353-1-AP
p21	Cell Signaling Technology, Beverly, MA, USA	2947
p27	Cell Signaling Technology, Beverly, MA, USA	3686
PI3K	Cell Signaling Technology, Beverly, MA, USA	4249
P-AKT (s473)	Cell Signaling Technology, Beverly, MA, USA	4060
AKT (pan)	Santa Cruz Biotechnology, Inc., Santa Cruz, CA, USA	4685
phospho- $\beta$ -catenin (Ser33/37/Thr41)	Cell Signaling Technology, Beverly, MA, USA	9561
$\beta$ -Catenin	Santa Cruz Biotechnology, Inc., Santa Cruz, CA, USA	SC-7963
E-cadherin	Cell Signaling Technology, Beverly, MA, USA	3195
N-cadherin	Cell Signaling Technology, Beverly, MA, USA	13116
Vimentin	Santa Cruz Biotechnology, Inc., Santa Cruz, CA, USA	SC-7557-R
Snail	Cell Signaling Technology, Beverly, MA, USA	3879
Slug	Cell Signaling Technology, Beverly, MA, USA	9585
$\beta$ -tubulin	<i>Abcam, Cambridge, MA, USA</i>	ab6046
$\beta$ -actin	Santa Cruz Biotechnology, Inc. Santa Cruz, CA, USA	Sc-47778

**Supplementary Table S3** The target sequences of the C19orf10-specific siRNA oligos used in this study.

Number	Sequence
si#1	TGTCCAAGCTGGTGATTG
si#2	GGGAAGTCCTATCTGTACT
si#3	CCCTCTGAAAAGTGGAGAA