

Depletion of FTO & ALKBH5 causes EMT in ccRCC

Table S1. The GpmR sequences of all the genes

Target	Sequence
FTO-1	CTTTACGCAGCTTGAT
FTO-2	ACCAGTCACTCATTAA
ALKBH5-1	AGCAATTGAGGACATC
ALKBH5-2	GTAAAGTCAAGAGGTT
Neg Ctrl A	AACACGTCTATACGC
GAPDH	AGATTCAAGTGTGGTGG

Table S2. The PCR primer sequences of all the genes

Target	Sequence
ACTB-forward	CCAACCGCGAGAAGATGA
ACTB-reverse	CCAGAGGCGTACAGGGATAG
GAPDH-forward	CTCTGCTCCTCCTGTTTCGAC
GAPDH-reverse	ACGACCAAATCGGTTGACTC
ALKBH5-forward	CCTGCTCTGAAACCCAAGC
ALKBH5-reverse	TCCTTGCCATCTCCAGGAT
FTO-forward	GAAAATCTGGTGGACAGGTCA
FTO-reverse	CGAGATGAGAGTCACTCCTCACTT
CDKN1A-forward	CGAAGTCAGTTCCTTGTGGAG
CDKN1A-reverse	CATGGGTTCTGACGGACAT
CDKN1B-forward	CCCTAGAGGGCAAGTACGAGT
CDKN1B-reverse	AGTAGAACTCGGGCAAGCTG
BAX-forward	ATGTTTTCTGACGGCAACTTC
BAX-reverse	ATCAGTTCGGCACCTTG
P53-forward	CTTTCCACGACGGTGACA
P53-reverse	TCCTCCATGGCAGTGACC
CDH1-forward	AAGGGGTCTGTCATGGAAGG
CDH1-reverse	GGTGTTACATCATCGTCCG
CDH2-forward	CCATCATTGCCATCCTGCTC
CDH2-reverse	GTTTGGCCTGGCGTTCTTTA
SNAI1-forward	GCTGCAGGACTCTAATCCAGA
SNAI1-reverse	ATCTCCGAGGTGGGATG
SNAI2-forward	TGGTTGCTTCAAGGACACAT
SNAI2-reverse	GTTGCAGTGAGGGCAAGAA
VIM-forward	GAGAGGAAGCCGAAAACACC
VIM-reverse	TTGCGTTCAAGGTCAAGACG
PCNA-forward	TGTCACAGACAAGTAATGTCGATAAA
PCNA-reverse	GAAGTGGTTCATTCATCTCTATGG

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Table S3. The antibody information of all the genes

Specific Antibody	Dilution	Manufacturer
Anti-FTO	IgG rabbit 1:1250	Atlas Antibodies, Bromma, Sweden
Anti-ALKBH5	IgG rabbit 1:250	Novus Biologicals, Centennial, USA
Anti-VIM	IgG rabbit 1:1000	Cell Signaling Technology, Danvers, USA
Anti-PCNA	IgG mouse 1:200	Santa Cruz Biotechnology, Dallas, USA
Anti-CDH2	IgG mouse 1:200	Santa Cruz Biotechnology, Dallas, USA
Anti-SNAI2	IgG mouse 1:100	Santa Cruz Biotechnology, Dallas, USA
Anti-CDKN1B	IgG mouse 1:200	Santa Cruz Biotechnology, Dallas, USA
Anti-P53	IgG mouse 1:200	Santa Cruz Biotechnology, Dallas, USA
Anti-GAPDH	IgG rabbit 1:1000	Cell Signaling Technology, Danvers, USA
Anti- β -Actin	IgG-mouse 1:5000	Sigma-Aldrich, St. Louis, USA
Secondary Antibody	Dilution	manufacturer
Anti-Rabbit-POD	IgG-rabbit 1:2000	Cell Signaling Technology, Danvers, USA
Anti-mouse-POD	IgG-mouse 1:3000	BIO-RAD Laboratories, Hercules, USA

We use Anti-Rabbit-POD as secondary antibody for IgG-rabbit specific antibody, and Anti-mouse-POD as secondary antibody for IgG-mouse specific antibody.