

Table S1: antibodies and oligos used in this work

Protein	Used for	Manufacturer
Actinin	WB	sc-17829, Santa Cruz
Sestrin 2	WB	10795-1-AP, Proteintech
Phospho-S6 Ribosomal Protein	WB	2215, Cell Signaling
S6 Ribosomal Protein	WB	2217, Cell Signaling
Phospho-p70 S6 Kinase (Thr 389)	WB	9205, Cell Signaling
p70 S6 Kinase	WB	2708, Cell Signaling
LC3A/B	WB	4108, Cell Signaling
LSD1	ChIP, WB	ab17721, Abcam
TFEB	IF	4240, Cell Signaling
H3Ac	ChIP	06-599, Millipore
H3K27me3	ChIP	07-449, Millipore
H3K4me2	ChIP	ab32356, Abcam
H3K9me2	ChIP	ab1220, Abcam
LSD2	WB	Ab 193080, Abcam

	Gene	FW	Rev
qChiP	SESN2 (-10Kb)	CCAAGTTGTGAATGCAAAGG	AGCCGAGATCAGGCCACT
qChiP	SESN2 (TSS)	AGTCCCTCCAGGAACTGAAA	GTCATTAGGGTTGCGTGATG
qRT-PCR	SESN2	GTGGACACCTCCGTGCTC	GGTTCACCTCCCCATAATCA
qRT-PCR	GUSb	GTGGGCATTGTGCTACCTC	ATTTTTGTCCCGGCGAAC
qRT-PCR	SESN1	GGGCCGTTACCCCTACATTA	TTCACTAAGTAGGAGCACTGAT GTC
qRT-PCR	SESN3	GCTAATGACAACAACATAGAGA ATGC	CTCTAGCTCACTTAGAGAATCC ACAA
qRT-PCR	LSD2	CCACAATAAATCAGTCATCATT TCG	TCTTTGGCTTCCAGGACAGT
qRT-PCR	LSD1	AGACGACAGTTCTGGAGGGTA	TCTTGAGAAGTCATCCGGTCA