

Table S1. Primers used for Rab7 promoter cloning

Gene	Forward primer (5'-3')	Reverse primer (5'-3')	Step
Rab7	ACGATGGACTCCAGAGCGG	GATCTACTGTATGAACT	hiTAIL
	CCGCVVNVNNNCCAA	ATAACTC	-PCR1
	ACGATGGACTCCAGAG	ACAGTTTAACTGCCAGA	hiTAIL
		AGTATCTGCT	-PCR2
	ACGATGGACTCCAGAG	CTTCAAGAGCAGCTTAC	hiTAIL
		TTTCACAG	-PCR3

Table S2. Primers used for 5'-deletion plasmids construction

Gene	Primers	Forward primer (5'-3')	Reverse primer (5'-3')
Rab7	pGl3- -382/+67	ctatcgataggtaccgagctcTTAAA GAACTTTTAAACATATCA AC	cagtaccggaatgccaaagcttTAACTC CCGTCTCTCACTTCCTGTTC
	pGl3- -795/+67	ctatcgataggtaccgagctcACCCT GTCACCCTAACCCCTGTAA CC	cagtaccggaatgccaaagcttTAACTC CCGTCTCTCACTTCCTGTTC
	pGl3- -1206/+67	ctatcgataggtaccgagctcCTAAC CCTGTAACCCTGTAACCC TG	cagtaccggaatgccaaagcttTAACTC CCGTCTCTCACTTCCTGTTC
	pGl3- -1600/+67	ctatcgataggtaccgagctcAACCT CTCTAGGGGGAACCCCT AA	cagtaccggaatgccaaagcttTAACTC CCGTCTCTCACTTCCTGTTC

Table S3. The reference binding site sequences

Name	Binding site sequences
FOXO3	GTAAACA
FXR	AGGTCA
HNF4 α	CAAAGTCCA
KLF4	AAAGGAAGG
PPAR α /RXR	GGNAAAGGT
SREBP2	TCACGTCA
STAT3	TTCTNGGAA
TATA-box	TATAAA
TFEB	CACGTGAC
NRF2	TGACTCGCA

Table S4. Primers used for site-mutation analysis

Gene	Primers	Forward primer (5'-3')	Reverse primer (5'-3')
Rab7	Mut-FOXO3-1	CTTAcaccgatggaatAAAACA	TTattccatcggtgTAAGAATA
		AATACTTACTTATTTATATT	GTGTTGTGTGTTCCATGT
		TCAATTGC	ATG
	Mut-FOXO3-2	GTTATTtcagcgtcatgaTATTT	tcatgacgctgaAATAACAAAA
		CAAAAATCCTTGTGATAT	CGAATAACAAAATAAAC
		ATTCAGT	AA
	Mut-FOXO3-3	TTTgatcctgacgaaGTTATTTCG	AACttcgtcaggatcAAAATAA
		TTTTGTTATTTATTATTTA	CAAAAATAAATAAATAA
		CTATATTTC	CAAAACAA

Table S5. Primers used for Q-PCR analysis

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<i>6pgd</i>	CTGCTGCTGGACTCCTTCTT	GTTGTGTCTGTAACCGTCGTAA
<i>acadm</i>	GCAGAAGGAGTTCCAGGAGGTG TC	CAGCAATAATGACCGGCATTTGT C
<i>acca</i>	ACTTCTGCTGTGGTTGTCCTAT	GCATCCATCGTGGGTCATA
<i>atg1</i>	ATCTGGTGAAGGTGCTGAAGT	CTCTGACTGTGGCAGGTTGT
<i>atg3</i>	GGAAGGCTGAGGCAAGCGGAG A	TGGGTGGTTTTCAATGGTGACTG TTTT
<i>atg4</i>	ATGGAGGCAGTTTTAGCCAAGT AT	TGTATGTAAACCACAGCCGTGAA
<i>atg5</i>	CAGAACCGTTTTATCTTCTCCTA CCG	CGTCTACATCTTCAGCTTTCACG ACTT
<i>atgl</i>	ATCTGGTGAAGGTGCTGAAGT	CTCTGACTGTGGCAGGTTGT
<i>β-actin</i>	GTGCGTGACATCAAGGAGAAG	CGAGGAAGGATGGCTGGAA
<i>b2m</i>	GCTGATCTGCCATGTGAGTG	TGTCTGACACTGCAGCTGTA
<i>beclin1</i>	CTCAACTGGACCGCCTGAAGAA	CACTCCACAGGAACGCTGGGTA
<i>cpt1α</i>	CGCTCCTGCTCCAATGAGA	GAGACCACATAGAGGCAGAAGA
<i>elfa</i>	GTCTGGAGATGCTGCCATTG	AGCCTTCTTCTCAACGCTCT
<i>fas</i>	CATCATCACTGGAGGTCTTGGA	TACGAATGCCTGATCTGGAAGT
<i>foxo3</i>	CCCGTGTTTACCTTCAGCTG	TCAATGGGTCAGACTGGGTC
<i>g6pd</i>	GAGAAGCCTGCCTCAACCA	GGATCGTCCAAGTAGCCAAGT
<i>gapdh</i>	AAAGTCATCCCCGAGCTCAA	CTTCAGACGCAGCCTTCATC
<i>hprt</i>	ATGCTTCTGACCTGGAACGT	TTGCGGTTTCAGTGCTTTGAT

<i>hsl</i>	ACCATTGCTCCACCGTCTG	CGTCTCACTATCCTGTCCTTCA
<i>lamp</i>	CAGCAACAGCAGTAGTGGGA	AGCTCAGTGTAAGGTTGGCC
<i>lc3b</i>	CCTGACCACGTCAACATGAGCG AACT	GGAAATGGCGGCAGACACGGAG A
<i>rab7</i>	AAGCTTTCCAGACCATCGCA	AGAGAGGGTGGAGGGTGATC
<i>rpl7</i>	GCGCCAGATCTTCAATGGAG	CTCATTCTGCCATGACCACG
<i>tbp</i>	AGTCCCATGATGCCCTATGG	GCAACAGCTTGGGAATGGAA
<i>tfeb</i>	ACCAGCGACCTCCTCCTAAT	AGCTCAAATCTCCCAGGCAC
<i>tuba</i>	CACTTCCCTCTTGCCACCTA	ACGGTACAGGAGACAACAGG
