Supplementary information

Identification of ULK1 as a novel biomarker involved in miR-4487 and miR-595 regulation in neuroblastoma SH-SY5Y cell autophagy

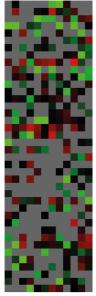
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Running title: ULK1 and its target miRNAs in autophagy

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A. Autophagic microarray in breast cancer (GSE22386)

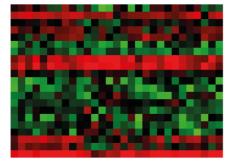
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PAK2 HUMAN
IGFIR HUMAN
IGFIR HUMAN
WSFR2 HUMAN
NSK3 HUMAN
PHKG2 HUMAN
PHKG2 HUMAN
MK2 HUMAN
MK2 HUMAN
AVR2B HUMAN
AVR2B HUMAN
TRIO HUMAN
TRIO HUMAN
TYRO3 HUMAN
TYRO3 HUMAN
TYRO3 HUMAN
MSK11 HUMAN
MSK11 HUMAN
FOEE HUMAN
FOEE HUMAN
FOH HUMAN
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KPCE HUMAN
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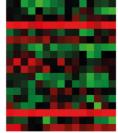
C. Autophagic microaaray in type II diabetes (GSE21340)





STYK1 HUMAN
ULK1 FUMAN
FER FUMAN
FER FUMAN
TIE1 FUMAN
TIE1 FUMAN
GUC2F HUMAN
DDR2 FUMAN
DDR2 FUMAN
DTR2 FUMAN
FURAF
FUMAN
FURAF
TEXTA FUMAN
CDK1 HUMAN
CDK1 HUMAN
CDK1 HUMAN
MUSK HUMAN
MUSK HUMAN
ATR HÜMAN
ATR HÜMAN
PLK2 HUMAN

21.27 YEARS 21.27 YEARS 21.27 YEARS 21.27 YEARS 21.27 YEARS 67.75 YEARS



KS6A4 HUMAN MYO3A HUMAN KCC1A HUMAN ALPK3 HUMAN CD11B HUMAN STK33 HUMAN STK33 HUMAN CDK15 HUMAN WIK4 HUMAN WIK4 HUMAN RIOK2 HUMAN KPCD3 HUMAN KPCB HUMAN KPCB HUMAN CDK1B HUMAN KPCB HUMAN KPCB HUMAN CDK9 HUMAN CDK9 HUMAN

B. Autophagic microarray in Parkinson's disease (GSE28894)

D. Autophagic microarray in ageing (GSE236)

Figure S1 | Different types of microarray evidence in human diseases

(A) Breast cancer; (B) Parkinson's disease; (C)Type II diabetes; (D) Ageing.

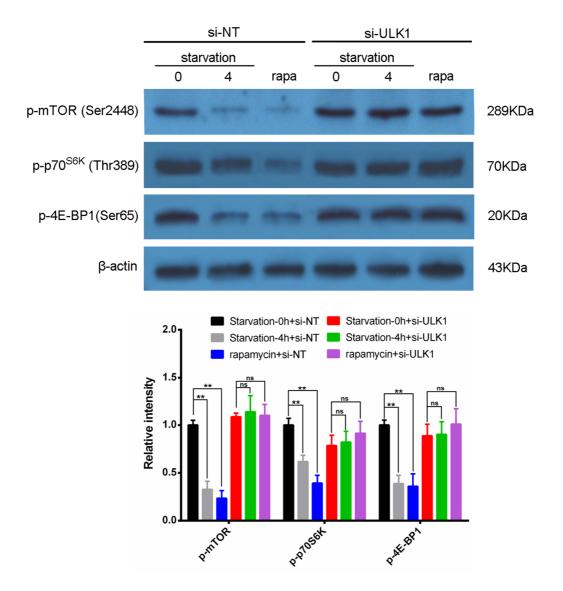


Figure S2 | ULK1 may regulate p70^{S6K} via mTOR

The SH-SY5Y cells were transfected with siRNAs for 48 h, followed by starvation for 0, 4 h, or treatment of rapamycin (1 μ M) for 4h, then subjected to immunoblot, β -actin was used as a loading control, the data are representative of 3 independent experiments. *P < 0.05; **P < 0.01.