

Table S1 Sequences of primers used in real-time quantitative polymerase chain reaction assays

Gene	Sequence (5'-3')
UBA6	F: GGGACTGGCAGCACAAATAAA
	R: TCTCCAAGAACGTACCTCTGTG
B2M	F: GAGGCTATCCAGCGTACTCCA
	R: CGGCAGGCATACTCATCTTTT
TAP1	F: TGCCCCGCATATTCTCCCT
	R: CACCTGCGTTTTTCGCTCTTG
PSMB8	F: CACGCTCGCCTTCAAGTTC
	R: AGGCACTAATGTAGGACCCAG
PSMB9	F: GCACCAACCGGGGACTTAC
	R: CACTCGGGAATCAGAACCCAT
GAPDH	F: GGAGCGAGATCCCTCCAAAAT
	R: GGCTGTTGTCATACTTCTCATGG



Figure S1 Intersection analysis of seven independent cohorts identified no genes consistently associated with favorable survival (hazard ratio <1, P<0.05).

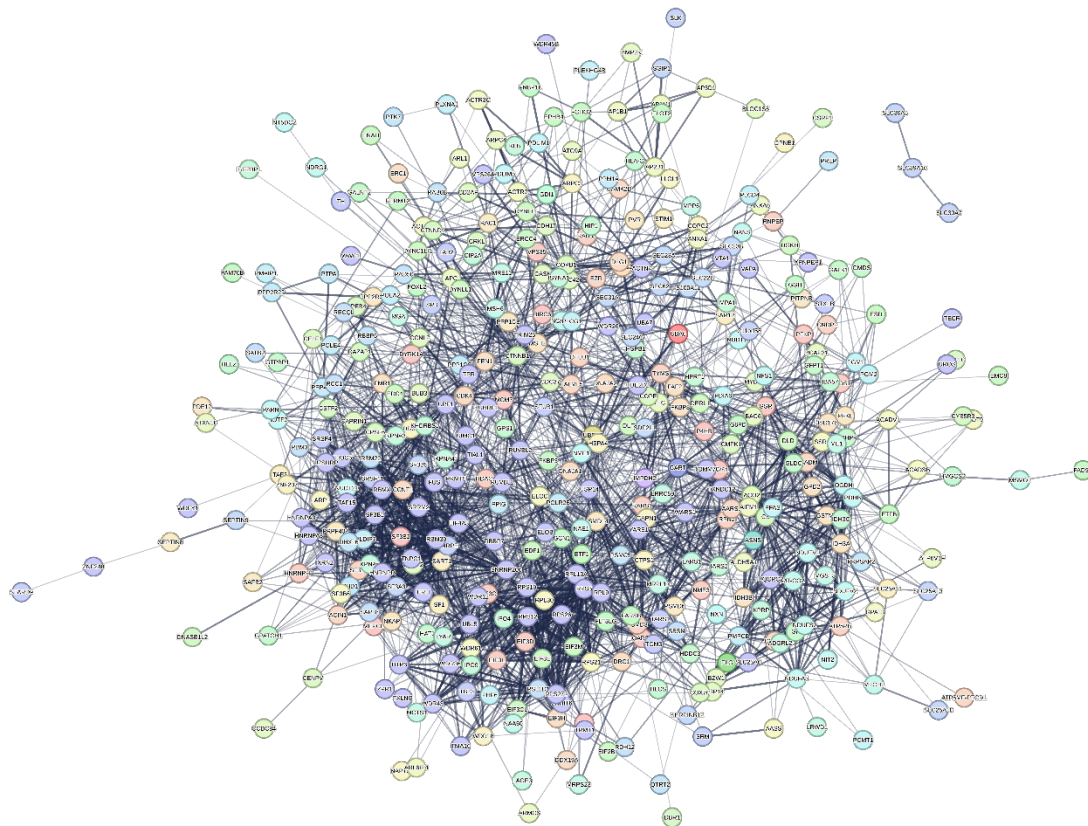


Figure S2 STRING database illustrating the protein-protein interaction network between UBA6 and its potential substrates.

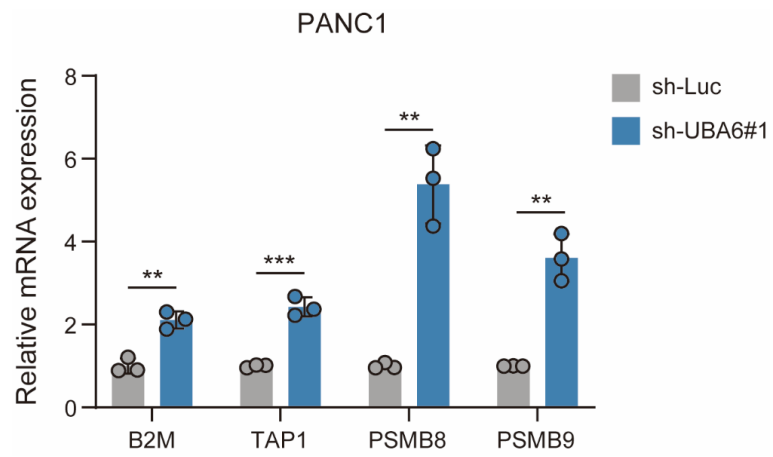


Figure S3 The relative mRNA expression of indicated genes in PANC-1 cells without or with UBA6 knockdown (n=3). **, P<0.01; ***, P<0.001.