

Appendix

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Appendix Table S1. cDNAs and plasmids used in this study.

RESOURCE	SOURCE	IDENTIFIER
Complementary DNA		Refseq
Human <i>UBXD8</i>	This paper	NM_014613.3
Human <i>UBXD2</i>	This paper	NM_014607.4
Human <i>UBXD6</i>	This paper	NM_005671.4
Human <i>BIK</i>	This paper	NM_001197.5
Human <i>MARCH5</i>	This paper	NM_017824.5
Human <i>MULAN</i>	This paper	NM_024544.3
Human <i>RNF185</i>	This paper	NM_152267.4
Human <i>PARKIN</i>	This paper	NM_004562.3
Human <i>COX5A</i>	This paper	NM_004255.4
Human <i>OXA1</i>	This paper	NM_005015.5
Human <i>INSIG1</i>	This paper	NM_005542.6
Human <i>MID49</i>	This paper	NM_139162.4
Recombinant DNA		
Plasmid: pSpCas9(BB)-2A-GFP (PX458)	Addgene	Cat# 48138
Plasmid: psPAX2	Addgene	Cat# 12260
Plasmid: pMD2.G	Addgene	Cat# 12259
Plasmid: pLVX-neo-3FLAG-UBXD8	This paper	N/A
Plasmid: pLVX-neo-3FLAG-UBXD6	This paper	N/A
Plasmid: pLVX-neo-3FLAG-UBXD2	This paper	N/A
Plasmid: pLVX-neo-3FLAG-UBXD8-UBX* (K367A,F407A,P408G,R409A)	This paper	N/A
Plasmid: pLVX-neo-3FLAG-BIK	This paper	N/A
Plasmid: pBM16A-FLAG-UBXD8 KI-Donor	This paper	N/A
Plasmid: FUIPW-UBXD8	This paper	N/A
Plasmid: FUIPW-Mito-UBXD8 (FZO1-702-761 aa)	This paper	N/A
Plasmid: FUIPW-ER-UBXD8 (UBXD2-406-438 aa)	This paper	N/A
Plasmid: FUIPW-3HA-MARCH5	This paper	N/A
Plasmid: FUIPW-3HA-MULAN	This paper	N/A
Plasmid: FUIPW-3HA-RNF185	This paper	N/A
Plasmid: FUIPW-mEGFP-PARKIN	This paper	N/A
Plasmid: pLENTI-TO-COX5A-3FLAG	This paper	N/A
Plasmid: pLENTI-TO-OXA1-3FLAG	This paper	N/A
Plasmid: pLENTI-TO-mitoKeima	This paper	N/A
Plasmid: pCDNA3.1-INSIG1-3FLAG	This paper	N/A
Plasmid: pLVX-neo-INSIG1-3FLAG	This paper	N/A
Plasmid: FUIPW-MID49-3FLAG	This paper	N/A

Appendix Table S2. Oligonucleotides used in this study.

<i>MARCH5</i> knockout primers (human)	
Fwd-ATCCACCCAGCGTTGTAGAC	Rev-GTCTACAACGCTGGGTGGAT
<i>UBXD8</i> knockout primers-1 (human)	
Fwd-GAGGAGCGGGATCTAACCCA	Rev-TGGGTTAGATCCCGCTCCTC
<i>UBXD8</i> knockout primers-2 (human)	
Fwd-TCTCACTGGCATCGAATCTA	Rev-TAGATTCGATGCCAGTGAGA
<i>UBXD2</i> knockout primers-1 (human)	
Fwd-CCGCCATCGCGACGGCCAAA	Rev-TTGCCGTCGCGATGGCGG
<i>UBXD2</i> knockout primers-2 (human)	
Fwd-GCTCCTTTTGGCCGTCGCGA	Rev-TCGCGACGGCCAAAAGGAGC
<i>UBXD6</i> knockout primers (human)	
Fwd-TGTGTCTGGAGCTCCGGCGT	Rev-ACGCCGGAGCTCCAGACACA
<i>NOXA</i> knockout primers-1 (human)	
Fwd-ACGCTCAACCGAGCCCCGCG	Rev-CGCGGGGCTCGGTTGAGCGT
<i>NOXA</i> knockout primers-2 (human)	
Fwd- TCGAGTGTGCTACTCAACTC	Rev-GAGTTGAGTAGCACACTCGA
<i>BIK</i> knockout primers-1 (human)	
Fwd- GCCAAGAACCTCCATGGTTCG	Rev-CGACCATGGAGGTTCTTGGC
<i>BIK</i> knockout primers-2 (human)	
Fwd-GTCCATCTCGTCCCCGATGC	Rev-GCATCGGGGACGAGATGGAC
<i>BNIP3</i> knockout primers-1 (human)	
Fwd-TTCAGCAATAATGGGAACGG	Rev-CCGTTCCCATATTGCTGAA
<i>BNIP3</i> knockout primers-2 (human)	
Fwd-ATGGGATTGGTCAAGTCGGC	Rev-GCCGACTTGACCAATCCCAT
<i>VCP</i> knockdown primers (human)	
Fwd-CACAGTGTGCTGAAAGGAAA (shRNA)	Rev-TTTCCTTTCAGCAAACTGTG
<i>BECLIN1</i> knockdown primers (human)	
Fwd-ATCTGCGAGAGACACCATCC (sgRNA)	Rev-GGATGGTGTCTCTCGCAGAT
<i>BAX</i> knockout primers-1 (human)	
Fwd-TCGGAAAAGACCTCTCGGG	Rev-CCCGAGAGGTCTTTTCCGA
<i>BAX</i> knockout primers-2 (human)	
Fwd-GTTCCGGCACCTTGGTGAC	Rev-GTGCACCAAGGTGCCGGAAC
<i>BAK</i> knockout primers-1 (human)	
Fwd-ACGGCAGCTCGCCATCATCG	Rev-CGATGATGGCGAGCTGCCGT
<i>BAK</i> knockout primers-2 (human)	
Fwd-GTTGATGTCGTCCCCGATGA	Rev-TCATCGGGGACGACATCAAC
<i>MARCH5</i> knockout check primers	
Fwd-ATCCCATTAAGTAAGAGCTGC	Rev-ATATCCACACAGGTATGCAAG
<i>UBXD6</i> knockout check primers	
Fwd-GTCCCCCTCAATAACGACAC	Rev-TGCCTCTACCCTCTTACACG
<i>FLAG-UBXD8</i> knockin check primers	

Fwd-GAGCTTCTCGAGGCACATTCG	Rev-TGTCAGAGACCCGAAATGACG
<i>NOXA</i> qPCR primers	
Fwd-GGAGATGCCTGGGAAGAAG	Rev-TGCCGGAAGTTCAGTTTGTC
<i>BIK</i> qPCR primers	
Fwd-CTGGGTCTGGCTTTCATCTAC	Rev-CTGTTTCGCAGGACACCC
<i>BNIP3</i> qPCR primers	
Fwd-GTTCCAGCCTCGGTTTCTATT	Rev-AGCTCTGTTGGTATCTTGTG
<i>ACTIN B</i> qPCR primers	
Fwd-ACCTTCTACAATGAGCTGCG	Rev-CCTGGATAGCAACGTACATGG