

Supplementary Table 2: List of genes included in the Human Autophagy Primer Library

Symbol	Name	Symbol	Name
<i>AKT1S1</i>	AKT1 substrate 1 (proline-rich)	<i>LAMP2</i>	Lysosomal-associated membrane protein 2
<i>AMBRA1</i>	Autophagy/beclin-1 regulator 1	<i>LAMP3</i>	Lysosomal-associated membrane protein 3
<i>APOLI</i>	Apolipoprotein L, 1	<i>LETM1</i>	Leucine zipper-EF-hand containing transmembrane protein 1
<i>ATF4</i>	Activating transcription factor 4	<i>LETM2</i>	Leucine zipper-EF-hand containing transmembrane protein 2
<i>ATG10</i>	ATG10 autophagy related 10 homolog (S. cerevisiae)	<i>MAP1LC3A</i>	Microtubule-associated protein 1 light chain 3 alpha
<i>ATG12</i>	ATG12 autophagy related 12 homolog (S. cerevisiae)	<i>MAP1LC3 A/B</i>	Microtubule-associated protein 1 light chain 3 beta
<i>ATG16L1</i>	ATG16 autophagy related 16-like 1 (S. cerevisiae)	<i>MAP1LC3 A/B2</i>	Microtubule-associated protein 1 light chain 3 beta 2
<i>ATG16L2</i>	ATG16 autophagy related 16-like 2 (S. cerevisiae)	<i>MAP1LC3C</i>	Microtubule-associated protein 1 light chain 3 gamma
<i>ATG2A</i>	ATG2 autophagy related 2 homolog A (S. cerevisiae)	<i>MCL1</i>	Myeloid cell leukemia sequence 1 (BCL2-related)
<i>ATG2B</i>	ATG2 autophagy related 2 homolog B (S. cerevisiae)	<i>PIK3C3</i>	Phosphoinositide-3-kinase, class 3
<i>ATG3</i>	ATG3 autophagy related 3 homolog (S. cerevisiae)	<i>PIK3R4</i>	Phosphoinositide-3-kinase, regulatory subunit 4
<i>ATG4A</i>	ATG4 autophagy related 4 homolog A (S. cerevisiae)	<i>PPMIK</i>	Protein phosphatase 1K (PP2C domain containing)
<i>ATG4B</i>	ATG4 autophagy related 4 homolog B (S. cerevisiae)	<i>RAPTOR</i>	Raptor
<i>ATG4C</i>	ATG4 autophagy related 4 homolog C (S. cerevisiae)	<i>RASD1</i>	RAS, dexamethasone-induced 1
<i>ATG4D</i>	ATG4 autophagy related 4 homolog D (S. cerevisiae)	<i>RB1CC1</i>	RB1-inducible coiled-coil 1
<i>ATG5</i>	ATG5 autophagy related 5 homolog (S. cerevisiae)	<i>RGS19</i>	Regulator of G-protein signaling 19
<i>ATG7</i>	ATG7 autophagy related 7 homolog (S. cerevisiae)	<i>RICTOR</i>	Rapamycin-insensitive companion of mTOR
<i>ATG9A</i>	ATG9 autophagy related 9 homolog A (S. cerevisiae)	<i>SEC16A</i>	SEC16 homolog A (S. cerevisiae)
<i>BARKOR</i>	BARKOR (KIAA0831)	<i>SEC16B</i>	SEC16 homolog B (S. cerevisiae)
<i>BAX</i>	BCL2-associated X protein	<i>SEC23A</i>	Sec23 homolog A (S. cerevisiae)
<i>BCL2</i>	B-cell CLL/lymphoma 2	<i>SEC23B</i>	Sec23 homolog B (S. cerevisiae)
<i>BCL2L1</i>	BCL2-like 1	<i>SEC24A</i>	SEC24 related gene family, member A (S. cerevisiae)
<i>BECLIN-1</i>	Beclin-1	<i>SEC24B</i>	SEC24 related gene family, member B (S. cerevisiae)
<i>BECN1L1</i>	Becn1L1	<i>SEC24C</i>	SEC24 related gene family, member C (S. cerevisiae)
<i>BIRC5</i>	Effector cell peptidase receptor 1	<i>SEC24D</i>	SEC24 related gene family, member D (S. cerevisiae)

<i>BNIP3</i>	BCL2/adenovirus E1B 19kDa interacting protein 3	<i>SH3GLB1</i>	SH3-domain GRB2-like endophilin B1
<i>DDIT3</i>	DNA-damage-inducible transcript 3	<i>SH3GLB2</i>	SH3-domain GRB2-like endophilin B2
<i>DRAM</i>	Damage-regulated autophagy modulator	<i>SNX30</i>	Sorting nexin family member 30
<i>EIF4EBP1</i>	Eukaryotic translation initiation factor 4E binding protein 1	<i>SQSTM1</i>	Sequestosome 1
<i>EIF4EBP2</i>	Eukaryotic translation initiation factor 4E binding protein 2	<i>TP53</i>	Tumor protein p53
<i>EIF4G1</i>	Eukaryotic translation initiation factor 4 gamma, 1	<i>TP73</i>	Tumor protein p73
<i>EPS15L1</i>	Epidermal growth factor receptor pathway substrate 15-like 1	<i>TPR</i>	Translocated promoter region (to activated MET oncogene)
<i>FKBP15</i>	FK506 binding protein 15, 133kDa	<i>ULK1</i>	Unc-51-like kinase 1 (C. elegans)
<i>FRAP1</i>	FK506 binding protein 12-rapamycin associated protein 1	<i>ULK2</i>	Unc-51-like kinase 2 (C. elegans)
<i>FRS2</i>	Fibroblast growth factor receptor substrate 2	<i>ULK3</i>	Unc-51-like kinase 3 (C. elegans)
<i>FRS3</i>	Fibroblast growth factor receptor substrate 3	<i>ULK4</i>	Unc-51-like kinase 4 (C. elegans)
<i>GABARAP</i>	GABA(A) receptor-associated protein	<i>UVRAG</i>	UV radiation resistance associated gene
<i>GABARAPL1</i>	GABA(A) receptor-associated protein like 1	<i>WDR45L</i>	WDR45-like
<i>GABARAPL2</i>	GABA(A) receptor-associated protein-like 2	<i>WIP1I</i>	WD repeat domain, phosphoinositide interacting 1
<i>GBL</i>	G protein beta subunit-like	<i>WIP12</i>	WD repeat domain, phosphoinositide interacting 2
<i>GFI1B</i>	Growth factor independent 1B transcription repressor	<i>Actb</i>	Actin, beta
<i>GNAI3</i>	Guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3	<i>B2m</i>	Beta-2-microglobulin
<i>GPSM1</i>	G-protein signaling modulator 1 (AGS3-like, C. elegans)	<i>Gapd</i>	Glyceraldehyde phosphate dehydrogenase
<i>GPSM2</i>	G-protein signaling modulator 2 (AGS3-like, C. elegans)	<i>Gusb</i>	Glucuronidase, beta
<i>GPSM3</i>	G-protein signaling modulator 3 (AGS3-like, C. elegans)	<i>Hprt1</i>	Hypoxanthine phosphoribosyltransferase 1
<i>HIF1A</i>	Hypoxia inducible factor 1, alpha	<i>Pgk1</i>	Phosphoglycerate kinase 1
<i>HSPA5</i>	Heat shock 70kDa protein 5	<i>Ppia</i>	Peptidylprolyl isomerase A
<i>LAMP1</i>	Lysosomal-associated membrane protein 1	<i>Rpl13a</i>	Ribosomal protein L13a