

Table S3. Autophagy-related genes.

No.	Gene Symbol	No.	Gene Symbol	No.	Gene Symbol	No.	Gene Symbol	No.	Gene Symbol
1	ABL1	101	CSNK2A2	201	HTT	301	OSBPL7	401	SOGA3
2	ABL2	102	CTSA	202	IFI16	302	P4HB	402	SPHK1
3	ACER2	103	CTSB	203	IFNG	303	PAFAH1B2	403	SPNS1
4	ADRA1A	104	CTSD	204	IFT20	304	PARK2	404	SPTLC1
5	ADRB2	105	CTTN	205	IFT88	305	PARK7	405	SPTLC2
6	AKT1	106	CX3CL1	206	IKBKB	306	PARP1	406	SQSTM1
7	AMBRA1	107	CXCR4	207	IKBKE	307	PEA15	407	SREBF1
8	APOL1	108	DAP	208	IKBKG	308	PELP1	408	SREBF2
9	ARNT	109	DAPK1	209	IL10	309	PEX14	409	ST13
10	ARSA	110	DAPK2	210	IL10RA	310	PEX3	410	STAT3
11	ARSB	111	DAPK3	211	IL24	311	PHF23	411	STK11
12	ATF4	112	DAPL1	212	IL4	312	PIK3C3	412	STUB1
13	ATF6	113	DCN	213	IRGM	313	PIK3CA	413	STX12
14	ATG10	114	DDIT3	214	ITGA3	314	PIK3CB	414	SUPT5H
15	ATG101	115	DHRX	215	ITGA6	315	PIK3R2	415	SVIP
16	ATG12	116	DIRAS3	216	ITGB1	316	PIK3R4	416	SYNPO2
17	ATG13	117	DLC1	217	ITGB4	317	PIKFYVE	417	TAB2
18	ATG14	118	DNAJB1	218	ITPR1	318	PIM2	418	TAB3
19	ATG16L1	119	DNAJB9	219	KAT5	319	PINK1	419	TBC1D12
20	ATG16L2	120	DNM1L	220	KAT8	320	PIP4K2A	420	TBC1D14
21	ATG2A	121	DRAM1	221	KDM4A	321	PIP4K2B	421	TBC1D25
22	ATG2B	122	DRAM2	222	KDR	322	PIP4K2C	422	TBK1
23	ATG3	123	EDEM1	223	KEAP1	323	PLEKHF1	423	TEX264
24	ATG4A	124	EEF1A1	224	KIAA0226	324	PLK2	424	TFEB
25	ATG4B	125	EEF1A2	225	KIAA1324	325	PLK3	425	TICAM1
26	ATG4C	126	EEF2	226	KIF25	326	POLDIP2	426	TLK2
27	ATG4D	127	EEF2K	227	KIF5B	327	PPP1R15A	427	TM9SF1
28	ATG5	128	EGFR	228	KLHL22	328	PRKAA1	428	TMEM150A
29	ATG7	129	EIF2AK2	229	KLHL24	329	PRKAA2	429	TMEM150B
30	ATG9A	130	EIF2AK3	230	KLHL3	330	PRKAB1	430	TMEM150C
31	ATG9B	131	EIF2AK4	231	LACRT	331	PRKAB2	431	TMEM59

32	ATIC	132	EIF2S1	232	LAMP1	332	PRKACA	432	TMEM74
33	ATM	133	EIF4EBP1	233	LAMP2	333	PRKAG1	433	TNFSF10
34	ATP13A2	134	EIF4G1	234	LAMP3	334	PRKAG2	434	TOMM7
35	ATP6V0A1	135	EIF4G2	235	LAMTOR1	335	PRKAG3	435	TP53
36	ATP6V0A2	136	EP300	236	LAMTOR2	336	PRKAR1A	436	TP53INP1
37	ATP6V0B	137	EPM2A	237	LAMTOR3	337	PRKCD	437	TP53INP2
38	ATP6V0C	138	ERBB2	238	LAMTOR4	338	PRKCCQ	438	TP63
39	ATP6V0D1	139	ERCC4	239	LAMTOR5	339	PRKD1	439	TP73
40	ATP6V0D2	140	ERN1	240	LARP1	340	PSAP	440	TPCN1
41	ATP6V0E1	141	ERO1L	241	LEP	341	PTEN	441	TPCN2
42	ATP6V0E2	142	EXOC1	242	LEPR	342	PTK2	442	TRAPPC8
43	ATP6V1A	143	EXOC4	243	LGALS8	343	PTK6	443	TREM2
44	ATP6V1B1	144	EXOC7	244	LRRK2	344	PTPN22	444	TRIB3
45	ATP6V1B2	145	EXOC8	245	LRSAM1	345	PYCARD	445	TRIM13
46	ATP6V1C1	146	FADD	246	LZTS1	346	QSOX1	446	TRIM21
47	ATP6V1C2	147	FAS	247	MAP1LC3A	347	RAB11A	447	TRIM22
48	ATP6V1D	148	FBXL2	248	MAP1LC3B	348	RAB12	448	TRIM65
49	ATP6V1E1	149	FBXO7	249	MAP1LC3C	349	RAB1A	449	TRIM8
50	ATP6V1E2	150	FBXW7	250	MAP2K7	350	RAB1B	450	TSC1
51	ATP6V1G1	151	FEZ1	251	MAP3K7	351	RAB24	451	TSC2
52	ATP6V1G2	152	FEZ2	252	MAPK1	352	RAB33B	452	TSPO
53	ATP6V1H	153	FKBP1A	253	MAPK15	353	RAB39B	453	TUSC1
54	BAD	154	FKBP1B	254	MAPK3	354	RAB3GAP1	454	UBQLN1
55	BAG1	155	FLCN	255	MAPK8	355	RAB3GAP2	455	UBQLN2
56	BAG3	156	FOS	256	MAPK8IP1	356	RAB5A	456	UBQLN4
57	BAK1	157	FOXK1	257	MAPK9	357	RAB7A	457	UCHL1
58	BAX	158	FOXK2	258	MAPT	358	RAB8A	458	ULK1
59	BCL2	159	FOXO1	259	MBTPS2	359	RAC1	459	ULK2
60	BCL2L1	160	FOXO3	260	MCL1	360	RAF1	460	ULK3
61	BCL2L11	161	FTH1	261	MEFV	361	RALB	461	USP10
62	BECN1	162	FTL	262	MET	362	RASIP1	462	USP13
63	BID	163	FYCO1	263	MFN2	363	RB1	463	USP30
64	BIRC5	164	FZD5	264	MFSD8	364	RB1CC1	464	USP33

65	BIRC6	165	GAA	265	MID2	365	RELA	465	UVRAG
66	BMF	166	GABARAP	266	MIR199A1	366	RGS19	466	VAMP3
67	BNIP1	167	GABARAPL1	267	MIR199A2	367	RHEB	467	VAMP7
68	BNIP3	168	GABARAPL2	268	MLST8	368	RIPK2	468	VDAC1
69	BNIP3L	169	GAPDH	269	MT3	369	RNF152	469	VEGFA
70	BOK	170	GATA4	270	MTCL1	370	RNF41	470	VMP1
71	C9orf72	171	GBA	271	MTDH	371	RNF5	471	VPS13C
72	CALCOCO2	172	GFAP	272	MTM1	372	ROCK1	472	VPS13D
73	CAMKK2	173	GNAI3	273	MTMR14	373	RPS6KB1	473	VPS26A
74	CANX	174	GNB2L1	274	MTMR3	374	RPTOR	474	VPS26B
75	CAPN1	175	GOLGA2	275	MTMR8	375	RRAGA	475	VPS35
76	CAPN10	176	GOPC	276	MTMR9	376	RRAGB	476	WAC
77	CAPN2	177	GPSM1	277	MTOR	377	RRAGC	477	WDFY3
78	CAPNS1	178	GRID1	278	MUL1	378	RRAGD	478	WDR24
79	CASP1	179	GRID2	279	MYC	379	RUFY4	479	WDR41
80	CASP3	180	GSK3A	280	NAF1	380	SAR1A	480	WDR45
81	CASP4	181	GSK3B	281	NAMPT	381	SCFD1	481	WDR45B
82	CASP8	182	HAX1	282	NBR1	382	SCOC	482	WDR6
83	CCL2	183	HDAC1	283	NCKAP1	383	SEC22B	483	WDR81
84	CCR2	184	HDAC6	284	NCOA4	384	SERPINA1	484	WIP1
85	CD46	185	HERC1	285	NEDD4	385	SESN1	485	WIP2
86	CDC37	186	HGF	286	NFE2L2	386	SESN2	486	XPA
87	CDK5	187	HGS	287	NFKB1	387	SESN3	487	ZC3H12A
88	CDK5R1	188	HIF1A	288	NKX2-3	388	SH3BP4	488	ZFYVE1
89	CDKN1A	189	HK2	289	NLRC4	389	SH3GLB1	489	ZKSCAN3
90	CDKN1B	190	HMGB1	290	NLRP6	390	SIRT1	490	ZMPSTE24
91	CDKN2A	191	HMGB4	291	NOD1	391	SIRT2		
92	CFLAR	192	HMOX1	292	NPC1	392	SLC38A9		
93	CHMP2B	193	HSP90AA1	293	NPRL2	393	SMCR8		
94	CHMP4A	194	HSP90AB1	294	NPRL3	394	SMURF1		
95	CHMP4B	195	HSPA5	295	NRBP2	395	SNCA		
96	CISD2	196	HSPA8	296	NRG1	396	SNRNP70		
97	CLEC16A	197	HSPB1	297	NRG2	397	SNX32		

98	CLN3	198	HSPB8	298	NRG3	398	SNX5
99	CLU	199	HTR2B	299	NUPR1	399	SNX6
100	CPTP	200	HTRA2	300	OPTN	400	SOGA1
