

Table S1. Genbank Accession Numbers Associated with Splice Variants (SVs) of Selected *Arabidopsis* (At), Rice (Os) and Maize (Zm) Atg Genes

		# a.a.	Genbank Accession (or TC number in ZmGI)
At	<i>ATG3</i>	313	NM_125543
Os	<i>Atg3a</i>	SV1 314	AK067737
		SV2 213?	CB682487
		SV3 54	CT845874
Os	<i>Atg3b</i>	SV1 54	AK241567
		SV2 213	CB680869, CB680870, CA757837
Zm	<i>Atg3</i>	SV1 311	TC316720 (also cloned in this study)
		SV2 132	(novel; from this study)
At	<i>ATG4a</i>	SV1 467	NM_180081
		SV2 422	NM_201958
At	<i>ATG4b</i>	SV1 477	NM_115858
		SV2 360	NM_180391
		SV3 267	NM_001125387
Os	<i>Atg4a</i>	SV1 474	AK242832
		SV2 37	CI309130, CI302592
Os	<i>Atg4b</i>	478	AK069012
Zm	<i>Atg4a</i>	SV1 492	TC324693 (also cloned in this study)
		SV2 429	(novel; from this study)
Zm	<i>Atg4b</i>	SV1 492	EC903166, EC892792, etc (also cloned in this study)
		SV2 462	TC336458
		SV3 178	(novel; from this study)
		SV4 208	(novel; from this study)
		SV5 292	(novel; from this study)
		SV6 271	(novel; from this study)
At	<i>ATG5</i>	337	NM_121735
Os	<i>Atg5</i>	SV1 380	AK063557
		SV2 231	CI122850

Zm <i>Atg5</i>	SV1	374	TC337283
	SV2	157	DR813916
At <i>ATG7</i>		697	NM_123958
Os <i>Atg7</i>	SV1	1042	AK067422
	SV2	502?	CB673026
	SV3	594	CB647683
	SV4	385	CB628914
	SV5	184?	CI615822
Zm <i>Atg7</i>		1021	EC871141, CF020538, etc (also cloned in this study)
At <i>ATG8a</i>	SV1	122	NM_118319
	SV2	137	NM_001084955
At <i>ATG8b</i>	SV1	122	NM_178967
	SV2	122	NM_116700
At <i>ATG8c</i>		119	NM_104884
At <i>ATG8d</i>		120	NM_126586
At <i>ATG8e</i>	SV1	122	NM_130080
	SV2	122	NM_180100
At <i>ATG8f</i>	SV1	121	NM_117751
	SV2	121	NM_179064
At <i>ATG8g</i>		121	NM_115928
At <i>ATG8h</i>		119	NM_111517
At <i>ATG8i</i>		115	NM_112426
Os <i>Atg8a</i>	SV1	119	AK059939
	SV2	49	CT830394
Os <i>Atg8b</i>	SV1	119	AK121268
	SV2	119	CU302213
	SV3	119	CT862705
	SV4	49	CT833979
Os <i>Atg8c</i>	SV1	120	AK121169, AK062573
	SV2	47	CB679970, CB679971

	SV3	?	CX110709
Os <i>Atg8d</i>	SV1	118	CI298209, CF992091, CI034410, EE591899, etc
	SV2	83	CB638721, CB638720, CB639070, CF318002, etc
	SV3	12	CI747130
Os <i>Atg8e</i>		107?	No supporting nucleotide sequence
Zm <i>Atg8a</i>	SV1	119	AY104735, DQ245523 (TC329822; also cloned in this study)
	SV2	49	CB350601, BM349572, BM348395, BM349643 (TC334011)
Zm <i>Atg8b</i>	SV1	120	DQ244834, etc (TC326171; also cloned in this study)
	SV2	120	(TC330425)
	SV3	13?	CD997790
	SV4	50?	BG842180 (TC369950)
Zm <i>Atg8c</i>	SV1	120	(TC352053; also cloned in this study)
	SV2	32	EB707920
	SV3	62?	BG320992 (TC357721)
Zm <i>Atg8d</i>	SV1	119	CO466368, etc (TC337655; also cloned in this study)
	SV2	92?	AW566172, AW520240 (TC352873)
	SV3	57	EB404907, EB404908, EB404837, EB404838
	SV4	57	DW531152 (also cloned in this study)
Zm <i>Atg8e</i>	SV1	119	AY103879 (TC330328; also cloned in this study)
	SV2	150	DR790662 (TC325503)
	SV3	57	(TC341957)
At <i>ATG10</i>	SV1	225	NM_180201
	SV2	226	NM_180202
Os <i>Atg10a</i>		198	AK241831
Os <i>Atg10b</i>	SV1	110	AK099684
	SV2	218?	CK014623
Zm <i>Atg10</i>	SV1	215	BT016613; (TC320991); (also cloned in this study)
	SV2	213?	DV028326
	SV3	128	DY533231, DY533232
	SV4	128	DV504020

	SV5	101	(novel; from this study)	
	SV6	101	(novel; from this study)	
At	<i>ATG12a</i>	96	NM_104299	
At	<i>ATG12b</i>	94	NM_112251	
Os	<i>Atg12</i>	SV1	93	AK243073
		SV2	109	CI356061
Zm	<i>Atg12</i>	SV1	91	AY104799, AW056117, etc (also cloned in this study)
		SV2	54	BG841308, EE041696 (also cloned in this study)
		SV3	75	EC902256
		SV4	86	CD966598, CD947458
		SV5	?	AW052989

Table SII. Oligonucleotide Primers used in This Study

Primer ID	Sequence (5' to 3')	^a Usage
ZmATG3a_F8	caccatgcagggaagcagaaggtctac	FL
ZmATG3a_R3	cttcaagccaaccaataatcagct	FL, RT
ZmATG3a_F1	gtatctccccccaataagcagttcct	RT
ZmATG4a_F1	caccatgacgagctgcctgagagggga	FL, RT
ZmATG4a_R2	aacatgtcttagcctcgtctaaag	FL, RT
ZmATG4b_F1	caccatgacgacctgcctgagagggga	FL, RT
ZmATG4b_R2	catcgggtgtcccctggttagag	FL, RT
ZmATG5a_F5	gtgcagatccagaaagaccatgga	RT
ZmATG5a_R7	tctctattgtttctagtgccgac	RT
ZmATG7a_F1	caccatggcgggtgccggtgcatgggc	FL
ZmATG7a_F3	ccaggcgatactgctggtacagaa	RT
ZmATG7a_R2	atatcagacctcgacgaaatcgtc	FL, RT
ZmATG8a_F1	caccatggccaggacctttcaaaatg	FL, RT
ZmATG8a_R2	acagtggcaggggcgattgctcta	FL, RT
ZmATG8bc_F1	caccatggccaagacgagctcgttcaag	FL, RT
ZmATG8b_R2	gggcaaggcgacccccattgctggc	FL, RT
ZmATG8c_R2	aaggcagacccgattgtggtgagc	FL, RT
ZmATG8d_F1	caccatggcgaggagttcgttcaagttg	FL, RT
ZmATG8d_R2	ccaatgtggatccatagcggctcc	FL, RT
ZmATG8e_F1	caccatggcgaggagctcgttcaagctg	FL, RT
ZmATG8e_R2	tacaggaggaggggcatgtccga	FL, RT
ZmATG10_F4	caccatgggaggctcccctgtatgggac	FL, RT
ZmATG10_R2	gcaaggtctagccaccagtgcacaaa	FL, RT
ZmATG12_F1	caccatggccgaggaggcagatcagaaa	FL, RT
ZmATG12_R2	tgctgcaagacagacttagcccca	FL, RT
ZmLHCb5_F1	atggcggctcttctccatccaag	RT
ZmLHCb5_R2	gtaaaatcaaggacggcagcagcg	RT
ZmGAPDH_F	ttcagggtggtgccaagaaggttg	RT

ZmGAPDH_R	ctgtagccccactcgttgcgtacc	RT
ZmSBPase_F3	attgtcgacaccaacttcaccgtc	RT
ZmSBPase_R2	cgagcccggattctagtaattcag	RT
ZmSEE1a_F3	ctccaccaatcggaaggcctctc	RT
ZmSEE1a_R4	cggtaactccttccttcatgat	RT
ZmUBC_F2	acgaaggtcttccatccaaacatc	RT
ZmUBC_R2	gtttcatgggcaacaccacaatcg	RT

^a Abbreviations: FL, for cloning a full-length cDNA; RT, for RT-PCR