

# Product datasheet for RC216453

# ATG4B (NM\_178326) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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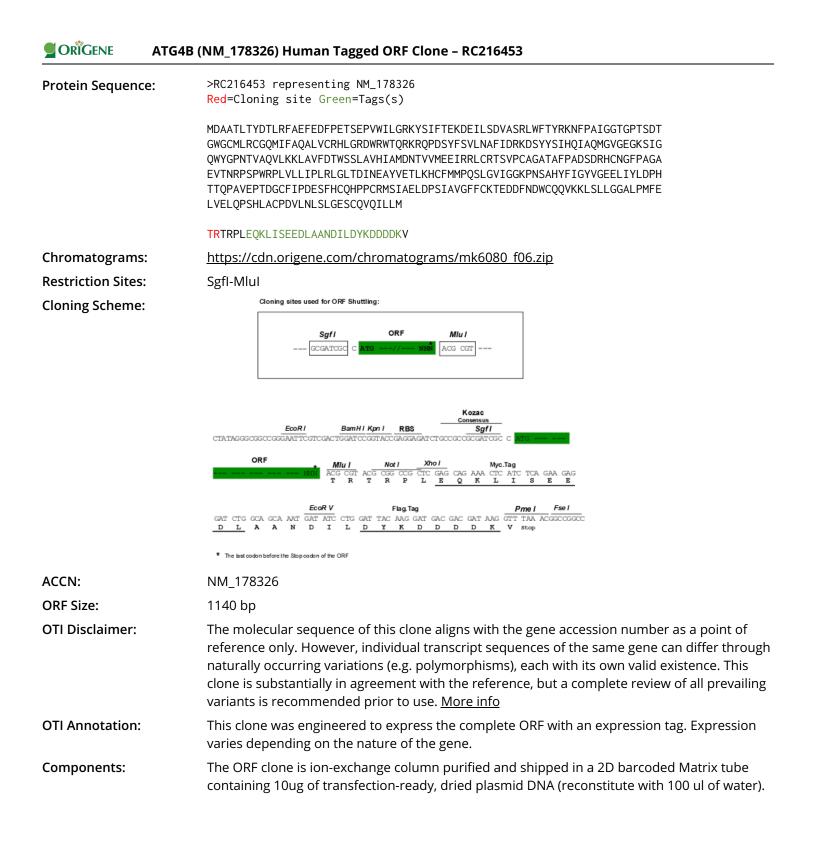
Product Type:	Expression Plasmids
Product Name:	ATG4B (NM_178326) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATG4B
Synonyms:	APG4B; AUTL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC216453 representing NM_178326 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGACGCAGCTACTCTGACCTACGACACTCTCCGGTTTGCTGAGTTTGAAGATTTTCCTGAGACCTCAG

ATGGACGCAGCTACTCTGACCTACGACACTCTCCGGTTTGCTGAGTTTGAAGATTTTCCTGAGACCTCAG AGCCCGTTTGGATACTGGGTAGAAAATACAGCATTTTCACAGAAAAGGACGAGATCTTGTCTGATGTGGC ATCTAGACTTTGGTTTACATACAGGAAAAACTTTCCAGCCATTGGGGGGGACAGGCCCCACCTCGGACACA GGCTGGGGCTGCATGCTGCGGTGTGGACAGATGATCTTTGCCCAAGCCCTGGTGTGCCGGCACCTAGGCC GAGATTGGAGGTGGACACAAAGGAAGAGGCAGCCAGACAGCTACTTCAGCGTCCTCAACGCATTCATCGA CAGGAAGGACAGTTACTACTCCATTCACCAGATAGCGCAAATGGGAGGTTGGCGAAGGCAAGTCCATAGGC CAGTGGTACGGGCCCAACACTGTCGCCCAGGTCCTGAAGAAGCTTGCTGTCTTCGATACGTGGAGCTCCT TGGCGGTCCACATTGCAATGGACAACACTGTTGTGATGGAGGAAATCAGAAGGTTGTGCAGGACCAGCGT TCCCTGTGCAGGCGCCACTGCGTTTCCTGCAGATTCCGACCGGCACTGCAACGGATTCCCTGCCGGAGCT GAGGTCACCAACAGGCCGTCGCCATGGAGACCCCTGGTACTTCTCATTCCCCTGCGCCTGGGGCTCACGG ACATCAACGAGGCCTACGTGGAGACGCTGAAGCACTGCTTCATGATGCCCCAGTCCCTGGGCGTCATCGG AGGGAAGCCCAACAGCGCCCACTACTTCATCGGCTACGTTGGTGAGGAGCTCATCTACCTGGACCCCCAC ACCACGCAGCCAGCCGTGGAGCCCACTGATGGCTGCTTCATCCCCGGACGAGAGCTTCCACTGCCAGCACC CGCCGTGCCGCATGAGCATCGCGGAGCTTGACCCGTCCATCGCTGTGGGGTTTTTCTGTAAGACTGAAGA TGACTTCAATGATTGGTGCCAGCAAGTCAAAAAGCTGTCTCTGCTTGGAGGTGCCCTGCCCATGTTTGAG CTGGTGGAGCTGCAGCCTTCACATCTGGCCTGCCCCGACGTCCTGAACCTGTCCCTAGGTGAGAGCTGCC AAGTCCAGATTCTTCTGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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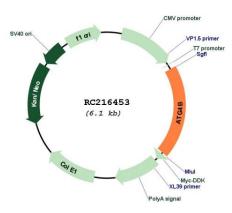
# Service ATG4B (NM\_178326) Human Tagged ORF Clone – RC216453

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
RefSeq:	<u>NM 178326.3</u>
RefSeq Size:	2912 bp
RefSeq ORF:	1143 bp
Locus ID:	23192
UniProt ID:	<u>Q9Y4P1</u>
Cytogenetics:	2q37.3
Protein Families:	Protease
Protein Pathways:	Regulation of autophagy
MW:	42.4 kDa
Gene Summary:	Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also

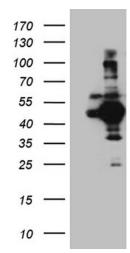
This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

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### **Product images:**

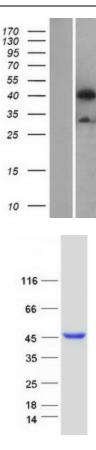


Circular map for RC216453



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ATG4B (Cat# RC216453, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ATG4B (Cat# [TA810189])(1:2000). Positive lysates [LY403600] (100ug) and [LC403600] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY403600]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216453 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified ATG4B protein (Cat# [TP316453]). The protein was produced from HEK293T cells transfected with ATG4B cDNA clone (Cat# RC216453) using MegaTran 2.0 (Cat# [TT210002]).

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