

Product datasheet for **RC200289**

ATG4B (NM_013325) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG4B (NM_013325) 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:	>RC200289 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGCAGCTACTCTGACCTACGACACTCTCCGGTTTGCTGAGTTTGAAGATTTCTGAGACCTCAG
AGCCCGTTGGTACTGGGTAGAAAATACAGCATTTTACAGAAAAGGACGAGATCTTGCTGATGTGGC
ATCTAGACTTTGGTTTACATACAGGAAAACCTTCCAGCCATTGGGGGACAGGCCCCACCTCGGACACA
GGCTGGGCTGCATGCTGCGGTGTGGACAGATGATCTTTGCCAAGCCCTGGTGTCCGGCACCTAGGCC
GAGATTGGAGGTGGACACAAAGGAAGAGGCAGCCAGACAGCTACTTCAGCGTCTCAACGCATTCATCGA
CAGGAAGGACAGTTACTACTCCATTACCAGATAGCGCAAATGGGAGTTGGCGAAGGCAAGTCCATAGGC
CAGTGGTACGGGCCAACACTGTCGCCAGGTCCTGAAGAAGCTTGCTGTCTCGATACGTGGAGCTCCT
TGGCGGTCCACATTGCAATGGACAACACTGTTGTGATGGAGGAAATCAGAAGTTGTGCAGGACCAGCGT
TCCCTGTGCAGGCCCACTGCGTTTCTGCAGATTCGACCGGCACTGCAACGGATTCCCTGCCGGAGCT
GAGGTCACCAACAGGCCGTCGCCATGGAGACCCCTGGTACTTCTCATTCCCCTGCGCCTGGGGCTCACGG
ACATCAACGAGGCTACGTGGAGACGCTGAAGCACTGCTTCATGATGCCCCAGTCCCTGGGCGTCATCGG
AGGGAAGCCCAACAGCGCCCACTACTTCATCGGCTACGTTGGTGGAGAGCTCATCTACCTGGACCCCA
ACCACGCAGCCAGCCGTGGAGCCCACTGATGGCTGCTTCATCCCGACGAGAGCTTCCACTGCCAGCACC
CGCCGTGCCGCATGAGCATCGCGGAGCTTGACCCGTCCATCGCTGTGGGTTTTTCTGTAAGACTGAAGA
TGACTTCAATGATTGGTGCCAGCAAGTCAAAAAGCTGTCTCTGCTCGGAGGTGCCCTGCCATGTTTGAG
CTGGTGGAGCAGCAGCCTTACATCTGGCTGCCCGACGTCCTGAACCTGTCCCTAGATTCTTCTGATG
TAGAGCGACTGGAAGATTCTTCGACTCAGAAGATGAAGACTTTGAAATCCTGTCCCTT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_013325.2](#)

RefSeq Size: 2892 bp

RefSeq ORF: 1182 bp

Locus ID: 23192

UniProt ID: [Q9Y4P1](#)

Cytogenetics: 2q37.3

Domains: Peptidase_C54

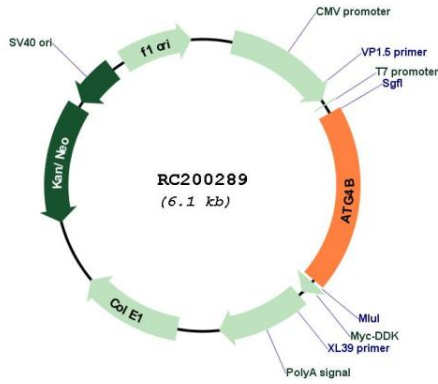
Protein Families: Protease

Protein Pathways: Regulation of autophagy

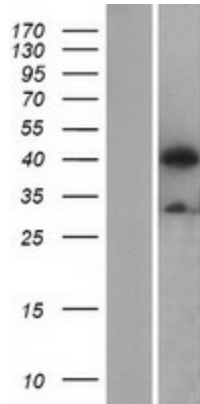
MW: 44.3 kDa

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 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]

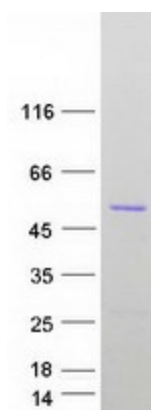
Product images:



Circular map for RC200289



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# [TP300289]). The protein was produced from HEK293T cells transfected with ATG4B cDNA clone (Cat# RC200289) using MegaTran 2.0 (Cat# [TT210002]).