

# Recombinant Human ATG7 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** ATG7-5180H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	ATG7 MS Standard C13 and N15-labeled recombinant protein (NP_006386) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants.
<b>Molecular Mass</b>	77.8 kDa
<b>AA Sequence</b>	<p>MAAATGDPGLSKLQFAPFSSALDVGFWHELTQKKLNEYRLDEAPKDIKGYYYNGDS          AGLPARLTLEFSAFDMSAPTPARCCPAIGTLYNTNTLESFKTADKKLLEQAANEIWE          SIKSGTALENPVLLNKFLLLTADLKKYHFYYWFCYPALCLPESLPLIQGPVGLDQRF          SLKQIEALECAYDNLCQTEGVTALPYFLIKYDENMVLVSLKHYSDFFQGQRTKITIGV          YDPCNLAQYPGWPLRNFLVLAHRWSSSFQSVEVVCFRDRTMQGARDVAHSIIFEV          KLPENAFSPDCPKAVGWKKNQKGGMGPRMVNLSECMDPKRLAESSVDLNLKLMC          WRLVPTLDLKVVSVKCLLLGAGTLGCNVARTLMGWGVRHITFVDNAKISYSNPVR</p>

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QPLYEFEDCLGGGKPKALAAADRLQKIFPGVNRGFNMSIPMPGHPVNFSSVTLEQ  
 ARRDVEQLEQLIESHDVVFLMDTRESRWLPAVIAASKRKLVINAAALGFDTFVVMRH  
 GLKKPKQQGAGDLCPNHPVASADLLGSSLFANIPGYKLGICYFCNDVVAPGDSTRDR  
 TLDQQCTVSRPGLAVIAGALAVELMVSVLQHPEGGYAIASSSDDRMNEPPTSLGLVP  
 HQIRGFLSRFDNVLPVSLAFDKCTACSSKVLQYEREGFNFLAKVFNSSHSFLEDLT  
 GLTLLHQETQAAEIWDMSDDEITRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [ATG7 autophagy related 7 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [ATG7](#)

**Synonyms** ATG7; ATG7 autophagy related 7 homolog (S. cerevisiae); APG7 autophagy 7 like (S. cerevisiae), APG7L; ubiquitin-like modifier-activating enzyme ATG7; DKFZp434N0735; GSA7; hAGP7; autophagy-related protein 7; ATG12-activating enzyme E1 ATG7; ubiquitin activating enzyme E1-like protein; ubiquitin-activating enzyme E1-like protein; APG7L; APG7-LIKE;

**Gene ID** [10533](#)

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mRNA Refseq [NM\\_006395](#)

Protein Refseq [NP\\_006386](#)

MIM [608760](#)

UniProt ID [O95352](#)

SDS-PAGE



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