

Recombinant Full Length Human ATG7 Protein, GST-tagged

Cat. No. ATG7-176HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full-length ATG7(1 a.a. - 703 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	1 a.a. - 703 a.a.
Description	This gene was identified based on homology to Pichia pastoris GSA7 and Saccharomyces cerevisiae APG7. In the yeast, the protein appears to be required for fusion of peroxisomal and vacuolar membranes. The protein shows homology to the ATP-binding and catalytic sites of the E1 ubiquitin activating enzymes.
Molecular Mass	104.4 kDa
AA Sequence	<p>MAAATGDPGL SKLQFAPFSS ALDVGFWHEL TQKKLNEYRL DEAPKDIKGY YYNGDSAGLP ARLTLEFSAF DMSAPTPARC CPAIGTLYNT NTLESFKTAD KKLLEQAAN EIWESIKSGT ALENPVLLNK FLLLTADLK KYHFYYWFCY PALCLPESLP LIQGPVGLDQ RFSLKQIEAL ECAYDNLCQT EGV TALPYFL IKYDENMVLV SLLKHYSDFD QGQRKITIG VYDPCNLAQY PGWPLRNFLV LAAHRWSSSF QSVEVVCFRD RTMQGARDVA HSIIFEVKLP EMAFSPDCPK AVGWEKNQKG GMGPRMVNLS ECMDPKRLAE SVDLNLKLM CWRLVPTLDL DKVVSVKCLL LGAGTLGCNV ARTLMGWGVR HITFVDNAKI SYSNPVRQPL YEFEDCLGGG KPKALAAADR LQKIFPGVNA RGFNMSIPMP GHPVNFSSVT</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LEQARRDVEQ LEQLIESHDV VFLMLDTRES RWLPVIAAAS KRKLVINAAL
 GFDTFVVMRH GLKKPKQQGA GDLCPNHPVA SADLLGSSLF ANIPGYKLG
 YFCNDVVAPG DSTRDRTLQ QCTVSRPGLA VIAGALAVEL MVSVLQHPEG
 GYAIASSDD RMNEPPTSLG LVPHQIRGFL SRFDNVLPVS LAFDKCTACS
 SKVLDQYERE GFNFLAKVFN SSSHFLEDLT GLTLLHQETQ AAEIWDMSDD ETI

Applications ELISA; WB-Re; AP; Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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](#)

mRNA Refseq [NM_006395](#)

Protein Refseq [NP_006386](#)

MIM [608760](#)

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UniProt ID

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