

## Recombinant Human ATG3, His-tagged

Cat. No. ATG3-35H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Ubiquitin-Like-Conjugating Enzyme ATG3/ATG3 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-His287) of Human ATG3 fused with a 6His tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Ubiquitin-Like-Conjugating Enzyme ATG3 (ATG3) is widely expressed and has highly levels in heart, skeletal muscle, kidney, liver and placenta. ATG3 as a E2-like enzyme, involves in autophagy and mitochondrial homeostasis. ATG3 catalyzes the conjugation of ATG8-like proteins to PE which is essential for autophagy. As an autocatalytic E2-like enzyme, ATG3 also can catalyzes the conjugation of ATG12 to itself which paly a role in mitochondrial homeostasis but not in autophagy.
<b>Form</b>	Supplied as a 0.2 μM filtered solution of 20mM PB, 150mM NaCl, pH 7.2
<b>AA Sequence</b>	MASMTGGQQMGRGSMQNVINTVKGKALEVAEYLTPVLKESKFKETGVITPEEFVAA GDHLVHHCP TWQWATGEELKVKAYLPTGKQFLVTKNVPCYKRCKQMEYSDELEAII EEDDGDGGWVDTYHNTGI TGITEAVKEITLENKDNIRLQDCSALCEEEDEDEGEAA DMEEYEESGLLETDEATLDTRKIVEA CKAKTDAGGEDAILQTRTYDLYITYDKYYQT PRLWLFGYDEQRQPLTVEHMYEDISQDHVKKTVT IENHPLPPPPMCSVHPCRHA EVMKKIETVAEGGGELGVHLEHHHHHHH
<b>Endotoxin</b>	Less than 0.1

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ng/μg (1 IEU/μg).

**Purity** Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

**Storage** Store at Please minimize freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** [ATG3](#) [ATG3 autophagy related 3 homolog \(S. cerevisiae\)](#) [ [Homo sapiens](#) ]

**Official Symbol** [ATG3](#)

**Synonyms** [ATG3](#); [ATG3 autophagy related 3 homolog \(S. cerevisiae\)](#); [APG3 autophagy 3 like \(S. cerevisiae\)](#) , [APG3L](#); [ubiquitin-like-conjugating enzyme ATG3](#); [DKFZp564M1178](#); [FLJ22125](#); [MGC15201](#); [PC3 96](#); [hApg3](#); [2610016C12Rik](#); [autophagy-related protein 3](#); [APG3](#); [APG3L](#); [PC3-96](#); [APG3-LIKE](#);

**Gene ID** [64422](#)

**mRNA Refseq** [NM\\_022488](#)

**Protein Refseq** [NP\\_071933](#)

**MIM** [609606](#)

**UniProt ID** [Q9NT62](#)

**Chromosome Location** [3q13.2](#)

**Pathway** [Regulation of autophagy, organism-specific biosystem](#); [Regulation of autophagy,](#)

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conserved biosystem; Senescence and Autophagy, organism-specific biosystem;

**Function**

Atg12 ligase activity; Atg8 ligase activity; enzyme binding; ligase activity; protein binding; small conjugating protein ligase activity;

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