

Product datasheet for **RC237369**

Apg3 (ATG3) (NM_001278712) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apg3 (ATG3) (NM_001278712) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ATG3
Synonyms: APG3; APG3-LIKE; APG3L; PC3-96
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237369 representing NM_001278712
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCAGAATGTGATTAATACTGTGAAGGAAAGGCACTGGAAGTGGCTGAGTACCTGACCCCGTCTCA
AGGAATCAAAGTTTAAGGAAACAGGTGTAATTACCCAGAAAGAGTTTGTGGCAGCTGGAGATCACCTAGT
CCACCACTGTCCAACATGGCAATGGGCTACAGGGGAAGAATTGAAAGTGAAGGCATACCTACCAACAGGC
AAACAATTTTGGTAACCAAAAAATGTGCCGTGCTATAAGCGGTGCAAACAGATGGAATATTCAGATGAAT
TGGAAAGCTATCATTGAAGAAGATGATGGTATGGCGGATGGGTAGATACATATCACAACACAGGTATTAC
AGGAATAACGGAAGCCGTTAAAGAGATCACACTGGAAAAAAGGACAATATAAGGCTTCAAGATTGCTCA
GCACTATGTGAAGAGGAAGAAGATGAAGATGAAGGAGAAGCTGCAGATATGGAAGAATAAAGAGAGTG
GATTGTTGAAACAGATGAGGCTACCCTAGATACAAGGAAAAATAGTAGAAGCTTGTAAAGCCAAAAGTGA
TGCTGGCGGTGAAGATGCTATTTTGCACCAGAACTTATGACCTTTACATCACTTATGATAAATATTAC
CAGACTCCACGATTATGGTTGTTTGGCTATGATGAGCAACGGCAGCCTTTAACAGTTGAGCACATGTATG
AAGACATCAGTCAGGATCATGTGAAGAAAACAGTGACCATTGAAAAACCCCTCATCTGCCACCACCTCC
CATGTGTTCAAGTTACCCATGCAGGCATGCTGAGGTGATGAAGAAAATCATTGAGACTGTTGCAGAAGGA
GGGGGAGAACTTGAGATTCATATGTATCCTTCCCTGTATGTAAGATTAGTGGCAAAATGGCTGTTAACGA
TTTTTTTTTTGAGAAATTTAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237369 representing NM_001278712
Red=Cloning site Green=Tags(s)

MQN^VINTVKGKALEVAEYLTPVLKESKFKETGVITPEEFVAAGDHLVHHCP^TWQWATGEELKVKAYLPTGKQFLVTKNVPCYKRCKQMEYSDELEAII^EEDDGDGGWVDYHNTGITGITEAVKEITLENKDNIRLQDCSALCEEEDEDEGEAADMEEYEE^SGLLETDEATLDTRKIVEACKAKTDAGGEDAILQTRTYDLYITYDKYYQTPRLWLF^GYDEQRQPLTVEHMYEDISQDHVKKTVTIENHPHLP^PPPMCSVHPCRHA^EVMKKIIETVAEGGGELGVHMYPSLYVRLVAKWLLTIFFLRLNV

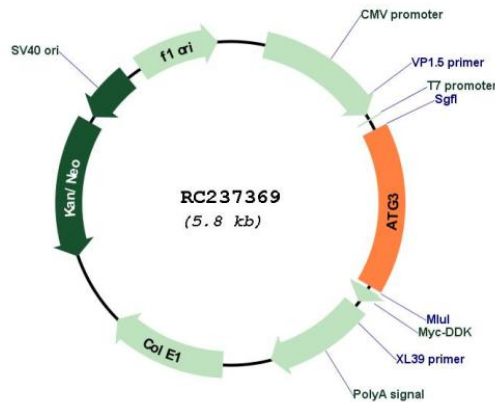
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278712

ORF Size: 933 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">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.
RefSeq:	NM_001278712.2
RefSeq Size:	3060 bp
RefSeq ORF:	936 bp
Locus ID:	64422
UniProt ID:	Q9NT62
Cytogenetics:	3q13.2
Protein Pathways:	Regulation of autophagy
MW:	35.9 kDa
Gene Summary:	This gene encodes a ubiquitin-like-conjugating enzyme and is a component of ubiquitination-like systems involved in autophagy, the process of degradation, turnover and recycling of cytoplasmic constituents in eukaryotic cells. This protein is known to play a role in regulation of autophagy during cell death. A pseudogene of this gene is located on chromosome 20. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]