

Product datasheet for **RG237369**

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:	TurboGFP
Symbol:	ATG3
Synonyms:	APG3; APG3-LIKE; APG3L; PC3-96
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237369 representing NM_001278712. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCAGAAATGTGATTAATACTGTGAAGGGAAAGGCACTGGAAGTGGCTGAGTACCTGACCCCGGTCTC
AAGGAATCAAAGTTTAAGGAAACAGGTGTAATTACCCAGAAAGATTTGTGGCAGCTGGAGATCACCTA
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CCACCACCTCCCATGTGTTCAAGTTCACCCATGCAGGCATGCTGAGGTGATGAAGAAAATCATTGAGACT
GTTGCAGAAGGAGGGGAGA AACTGGAGTTCATATGTATCCTTCCTGTATGTAAGATTAGTGGCAAAA
TGGCTGTTAACGATTTTTTTTTTTTGAGAAATTTAGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237369
 Blue=ORF Red=Cloning site Green=Tag(s)

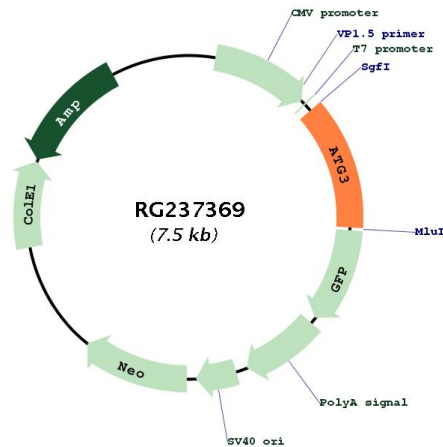
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 CSALCEEEDEDEGEAADMEEYEEESGLLETDEATLDRKIVEACKAKTDAGGEDAILQTRTYDLYITYD
 KY YQTPRLWLFYDEQRQPLTVEHMYEDISQDHVKKVTIENHPLPPPMPCSVHPCRHAIEVMKKIET
 VAEGGGLGVHMYPSLYVRLVAKWLLTIFFLRNLV
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

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).
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]