

## Product datasheet for **RG203453**

### Apg3 (ATG3) (NM\_022488) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apg3 (ATG3) (NM_022488) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Apg3
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:	>RG203453 representing NM_022488 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGAAATGTGATTAATACTGTGAAGGGAAAGGCACTGGAAGTGGCTGAGTACCTGACCCCGTCTCA  
AGGAATCAAAGTTTAAGGAAACAGGTGTAATTACCCAGAAAGATTTGTGGCAGCTGGAGATCACCTAGT  
CCACCACTGTCCAACATGGCAATGGGCTACAGGGGAAGAATTGAAAGTGAAGGCATACCTACCAACAGGC  
AAACAATTTTTGGTAACCAAAAAATGTGCCGTGCTATAAGCGGTGCAAACAGATGGAATATTCAGATGAAT  
TGAAGCTATCATTGAAGAAGATGATGGTATGGCGGATGGGTAGATACATATCACAACACAGGTATTAC  
AGGAATAACGGAAGCCGTTAAAGAGATCACACTGGAAAAAAGGACAATATAAGGCTTCAAGATTGCTCA  
GCACTATGTGAAGAGGAAGAAGATGAAGATGAAGGAGAAGCTGCAGATATGGAAGAATATGAAGAGATG  
GATTGTTGGAACAGATGAGGCTACCCTAGATACAAGGAAAATAGTAGAAGCTTGTAAAGCCAAAACCTGA  
TGCTGGCGGTGAAGATGCTATTTTGCAACCAGAACTTATGACCTTTACATCACTTATGATAAATATTAC  
CAGACTCCACGATTATGGTTGTTGGCTATGATGAGCAACGGCAGCCTTTAACAGTTGAGCACATGTATG  
AAGACATCAGTCAGGATCATGTGAAGAAAACAGTGACCATTGAAAATCACCTCATCTGCCACCACCTCC  
CATGTGTTCAAGTTCACCCATGCAGGCATGCTGAGGTGATGAAGAAAATCATTGAGACTGTTGCAGAAGGA  
GGGGGAGAACTTGAGTTCATATGTATCTTATTTTCTTGAATTTGTACAAGCTGTCATTCCAACAA  
TAGAATATGACTACACAAGACACTTCACAATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203453 representing NM\_022488  
 Red=Cloning site Green=Tags(s)

MQNVINTVKGKALEVAEYLTPVLKESKFKETGVITPEEFVAAGDHLVHHCPWQWATGEELKVKAYLPTG  
 KQFLVTKNVPYKRCQMEYSDELEAIEEDDGDGGWVDYHNTGITGITEAVKEITLENKDNIRLQDCS  
 ALCEEEDEDEGEAADMEEYEESSGLLETDEATLDTRKIVEACKAKTDAGGEDAILQTRTYDLYITYDKYY  
 QTPRLWLFYDEQRQPLTVEHMYEDISQDHSVKKTVTIENHPLPPPPMCSVHPCRHAHEVMKKIIEITVAEG  
 GGELGVHMYLLIFLKFVQAVIPTIEYDYTRHFTM

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022488

**ORF Size:** 942 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:**

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\\_022488.5](#)

**RefSeq Size:** 1372 bp

**RefSeq ORF:** 945 bp

**Locus ID:** 64422

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

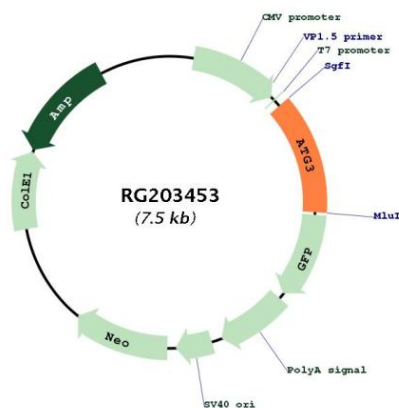
**Cytogenetics:** 3q13.2

**Domains:** Autophagy\_N, Autophagy\_C

**Protein Pathways:** Regulation of autophagy

**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]

### Product images:



Circular map for RG203453