

Product datasheet for **RG238050**

ATG4D (NM_001281504) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATG4D (NM_001281504) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATG4D
Synonyms:	APG4-D; APG4D; AUTL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238050 representing NM_001281504. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCAAGTGCTTCATCTCGTGGGCGCTGCCCTACGTCTCCCCAGGTTGGGTGGTTAAAAGCCGGACC
AGCTTTAGCAAGATCTCCAGCATCCACCTCTGTGGCCGCCGCTACCGTTTCGAGGGCGAGGGTGACATA
CAGCGTTTCCAGCGGGACTTTGTGTCCCGCTGTGGCTCACATACCGCCGGGACTTCCCGCCCTCCT
GGGGGCTGCCTGACCTCGGACTGTGGCTGGGGTGCATGTTACGCAGCGGCCAGATGATGCTGGCACAG
GGCCTTCTGCTGCATTTCTGCCAGAGACTGGACATGGGCCGAGGGCATGGCCTGGGCCCCCTGAG
CTGTCAGGGTCAGCCTCTCCAGCCGGTACCATGGCCTGCCCGCTGGATGCCCCACGCTGGGCCAG
GGTGGCCCTGAGCTGGAGCAGGAACGCCGCACCGGCAGATTGTGCTCCTGGTTCGCCGACCACCCCGG
GCCCCCTTTGGCCTACACCGGCTGGTGGAGCTTGGGCAGAGCTCAGGCAAGAAGGAGGACTGGTAT
GGGCCATCGTAGTGGCACACATCCTCAGGAAAGCCGTGGAGAGCTGCTCCGACGTCACCCGCTGGTG
GTGTACGTTTCTCAGGACTGCACAGTGTACAAGGCGGATGTGGCACGCCTGGTGGCCAGGCCAGACCCC
ACAGCCGAGTGAAGTCTGTGGTCACTCTGGTGGCCGTGCGACTGGGTGGCGAGACTCTCAACCCCGTG
TATGTGCCCTGCGTGAAGAACTCCTGCGTTGCGAGCTGTGCCTGGGCATCATGGGTGGGAAACCGCA
CACTCACTGTACTTCATTGGCTACCAAGATGACTTCTGCTGTACTGGACCCTCACTACTGCCAGCCC
ACTGTGGATGTACGCCAGCCGACTTCCCTGGAGTCTTCCACTGCACCTCGCCCGCAAGATGGCC
TTTGCCAAGATGGACCAAGCTGTACCGTGGGCTTCTATGCTGGAGACAGGAAGGAGTTTGAGACTC
TGCTCAGAGCTGACCAGGCTCCTCAGCTCCTCCTCAGCCACAGAGCGGTACCCATGTTACCCTGGCC
GAGGGCCATGCTCAGGACCACAGCCTGGACGACCTCTGCTCCCAGCTCGCCAGCCACACTCCGGCTC
CCTCGCACAGGGCGGCTCCTCAGGGCCAAACGCCCCAGCTCTGAGGACTTTGTGTTTTTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



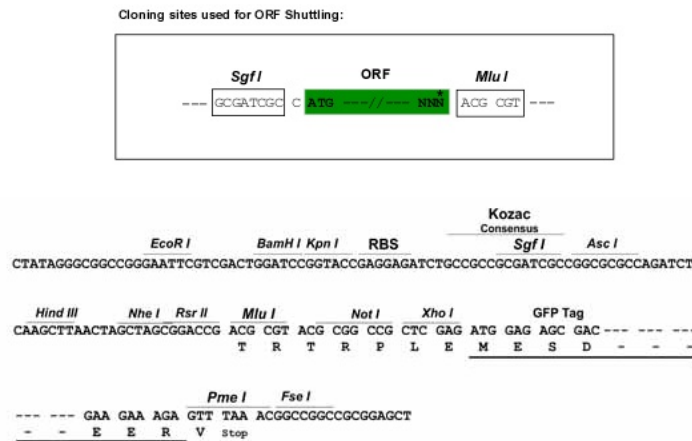
View online »

Protein Sequence: >Peptide sequence encoded by RG238050
 Blue=ORF Red=Cloning site Green=Tag(s)

MQVLHLGRCPYVSPGWVVKSRFSFKISSIHLGRRYRFEGEGDIQRFQDFVSRWLTYRRDFPPLP
 GGCLTSDCGWGCMRLRSGQMMLAQGLLLHFLPRDWTWAEGMGLGPEL SGSASPSRYHGPARWMPRWAQ
 GAPELEQERRHRQIVSWFADHPRAPFGLHRLVELGQSSGKKAGDWYGPSLVAHILRKAVESCSDVTRLV
 VVYSQDCTVYKADVRLVARPDPTAEWKSVVILVPVRLGGETLNPVYVPCVKELLRCELCLGIMGGKPR
 HSLYFIGYQDDFLLYLDPHYCQPTVDVSQADFPLESFHCTSPRKMAFAKMDPSCTVGFYAGDRKEFETL
 CSELTRVLSSSSATERYPMFTLAEGHAQDHSDDLCSQLAQPTLRLPRTGRLLRAKRPSSEDFVFL
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001281504

ORF Size: 1233 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_001281504.2](#)

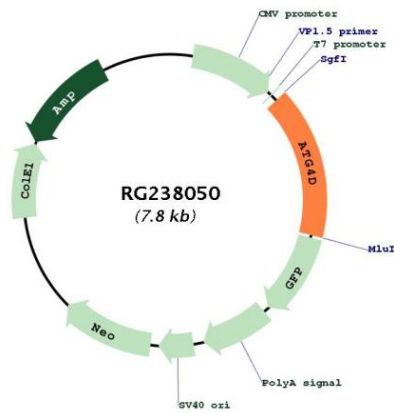
RefSeq Size: 2070 bp

RefSeq ORF: 1236 bp
 Locus ID: 84971
 UniProt ID: Q86TL0

Cytogenetics: 19p13.2
 Protein Pathways: Regulation of autophagy
 MW: 46.9 kDa

Gene Summary: Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene belongs to the autophagy-related protein 4 (Atg4) family of C54 endopeptidases. Members of this family encode proteins that play a role in the biogenesis of autophagosomes, which sequester the cytosol and organelles for degradation by lysosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG238050