

Product datasheet for **RN216072**

Atg101 (NM_001271114) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Atg101 (NM_001271114) Rat Untagged Clone

Tag: Tag Free

Symbol: Atg101

Synonyms: RGD1359310

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >RN216072 representing NM_001271114

Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAGTGTGATCAGAAAGTGTGGAGGTGTGGTGGAGGGCGGCAGGTGGAGGAGGCCATGCTGGCCG
TGCTGCACACAGTGTGCTTACCAGCAGCACAGGCAAGTTTCACTACAAGAAGGAGGGCACGTACTCCAT
CGGCACCGTGGGCATCCAGGATGTAGACTGTGACTTCATCGACTTCACATATGTGCGTGTCTCCTCCGAG
GAGCTGGACCGCGCCTTGCAGAGGTTGTTGGGAATTCAAGGATGCACTGCGGAAGTCAAGCGCGGATG
GGCTGGGCCAGATGTCTTGAATTCTACCAGAAGAAGTCTCGCTGGCCTTTTTCGGATGAGTGCAT
CCCCTGGGAGGTGTGGACTGTCAAGGTGCACGTGGTAGCCCTGGCCACAGAGCAGGAGCGGCAGATCTGC
AGAGAGAAGGTGGGAGAGAAGCTGTGTGAGAAGATTATCAACATCGTGGAGGTGATGAGCCGGCAGCAGT
ACCTGCCCAAGATGCCCACTCAGTCAGAGCTGGACAACGTGTTTGACACGGGCTTGCGGGACGTGCAGCC
CTACCTCTACAAGATCTCTTTAGATCACCAGAGGCCCTGGGCACCTCAGTCACCACCACTATGCGCAGG
CTCATCAAAGACACCCTTGCCCTA**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001271114

Insert Size: 657 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001271114.1 , NP_001258043.1
RefSeq Size:	1245 bp
RefSeq ORF:	657 bp
Locus ID:	300240
UniProt ID:	Q6AY69
Cytogenetics:	7q36
Gene Summary:	Autophagy factor required for autophagosome formation. Stabilizes ATG13, protecting it from proteasomal degradation.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR and lacks a portion of the 5' coding region compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (2) with a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by {transcript alignments.