

Product datasheet for **RN201285**

Atg9a (NM_001014218) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg9a (NM_001014218) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Atg9a
Synonyms:	RGD1310450
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN201285 representing NM_001014218
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCACAGTTTGACACTGAATACCAGCGCTAGAGGCCTTTATAGCGATTACACCCAGGGGAAGAGG
 ACCTGTTGGTGCATGTGGCTGAGGGGAGCAAATCACCTTGGCACCACATTGAAAACCTTGACCTCTCTT
 CTCTCGAGTTTATAATCTACATCAGAAGAATGGGTTACATGTATGCTCATTGGAGAGATTTTGAACCT
 ATGCGATTCTCTTTGTGGTTGCCTTACCACCTTCTGGTTAGCTGTGTGGACTATGACATCCTATTTG
 CCAACAAGATGGTGAACCACAGTCTGCATCCTACCGAGCCTGTCAAGGTCACTCTGCCAGATGCCTTTT
 GCCTGCCAAAGTTTGCAGTGCCAGGATTCAGGAAAACGGCTCCCTCATCACCATCCTGGTCATCGCTGGT
 GTCTTCTGGATCCACCGCTTATCAAGTTTATCTATAACATTTGTGCTATTGGGAGATCCACTCCTTCT
 ACCTACATGCTCTGCGGATCCCAATGTCTGCCCTCCGATTGCACGTGGCAGGAAGTGCAGGCCGGAT
 TGTGCAGACCCAGAAAGAGCATCAGATCTGCATCCACAAGCGTGAGCTGACAGAGTTGGACATCTACCAT
 CGCATCCTCCGTTTCCAGAACTACATGGTGGCACTGGTGAACAAATCCCTCTTGCCTCTGCGCTCCGTC
 TGCCCGGCTCGGAGAGTTGTCTTCTCACCCGTGGCCTCAAGTACAACCTTTGAGCTCATCCTCTTCTG
 GGGACCCGGCTCTCTGTTTCTCAATGAATGGAGCCTCAAGGCCGAGTACAAACGTGGAGGGCAACGGCTA
 GAGCTGGCCAGCGTCTCAGCAACCGCATCCTGTGGATTGGCATCGCCAACCTTCTGCTCTGTCCCTCA
 TCCTCATCTGGCAGATCCTCTATGCCTTCTTACGATATGCCGAGGTGCTGAAGAGAGAGCCGGGAGCCCT
 GGGAGCGCTTGTGGTCACTCTATGGCCGTTGCTACCTCCGCCACTTCAATGAGCTAGAACACGAGCTG
 CAGTCCCGCTCAACCGAGGATACAAGCCCGCTCCAAGTACATGAATTGCTTCTTGTCAACCGTACTGA
 CTCTGTGGCCAAGAATGGTGCCTTCTTCCGGGCTCTATCCTGGCCGTGCTTATTGCTCTCAGCATCA
 CGATGAAGATGTGTTGGCTGTGGAGCATGTCCTACCACCTGTACCCCTACTGGGAGTACCGGTGACTGTG
 TGAGGCTTTTATCCCAGACCAGCACATGGTGTCTGCCTGAGCAGCTGCTCCGAGTGATCCTTGCCC
 ACATCCACTACATGCCTGACCACTGGCAGGGTAATGCCACCCTCGCAGACCCGGGACGAGTTGCCCA
 GCTCTTCCAGTACAAGGCAGTGTTCATCTTGGAGGAGTTGCTGAGTCCCATTGTTACACCCTCATTCTC
 ATCTTCTGCCTACGCCACGGCCCTGGAGATCATAGACTTCTTCCGAACTTTACTGTGGAGGTGCTG
 GTGTGGGGACACCTGCTCCTTTCGCGAGATGGACGTTCCGCCAGCAGGTCATCCTCAGTGGCTGTCTGG
 AGGGCAGACTGAGCCTCAGTGTACCAGCAAGCCGAGGATGGGAAGACCGAGTTGCTCACTCATGCATTT
 GCCATACCAATCCTGGCTGGCAGCCCCCTCGTGAGAGCACAGCCTTCTGGGCTTCTCAAGGAGCAGG
 TGACGCGAGATGGAGCGCTGCTGGCCTTGCCAGGGTGGTCTGCTCCAGAGAATGCCCTTTTACATC
 CATCCAGTCTTACAGTCTGAGTCTGAGCCACTGAGCCTCATTGCAAATGTGGTAGCAGGCTCGTCTGC
 CGAGGACCCCACTGTCCAGAGACTGCAGGGTCCAGGCACAGGGCTGATGTTGCTTCTGCCCTTAGAT
 CCTTCTCCCTCTACAGCCTGGACAGGCCCTCAAGGCCGTGTTCCAGTACCATGACAGGCTCTGGAGT
 GGACGCCAGGACAGCCAGCTCCGGGAGCAGCGTGTGGGAAGGACAGCTGCAAAGCCTGGTGTCTGAA
 TATGCGTCCACTGAGATGAGCCTTATGCCCTCTATATGCACCAGCTCCACAAGCAGCAGACCCAGGCTG
 AGCCCGAGCGCATGTGTGGCACCGCCGGAGAGTGTGAGAGTGGAGAGAGTGGCCCTGAAGAGGGGG
 AGAGGGTGCCCGGGCCCCAACCCATCCACGCTCTGCCAGCTATCCCTGTGCTACTCCCGGCCTGGA
 GCACCTGAGACCACCGCCCTGCATGGGGGCTTCCAGAGGCGCTACGGGGGATCACAGATCCTGGCACAG
 TGCCCCGTGCTCCTCTCACTTCTCAGGCTGCCCTTGGGAGGATGGGCAGAAGATGGGCAGCCAGCATC
 AAGACCCAGAGCCGGTCCAGAGGAGGGCTCAGAGGATGAACTGCCCCCTCAAGTGCACAAGGTA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001014218
Insert Size: 2520 bp

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).
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:	<u>NM_001014218.1</u> , <u>NP_001014240.1</u>
RefSeq Size:	4134 bp
RefSeq ORF:	2520 bp
Locus ID:	363254
UniProt ID:	<u>Q5FWU3</u>
Cytogenetics:	9q33
Gene Summary:	Involved in autophagy and cytoplasm to vacuole transport (Cvt) vesicle formation. Plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS), the nucleating site for formation of the sequestering vesicle. Cycles between a juxta-nuclear trans-Golgi network compartment and late endosomes. Nutrient starvation induces accumulation on autophagosomes. Starvation-dependent trafficking requires ULK1, ATG13 and SUPT20H (By similarity).[UniProtKB/Swiss-Prot Function]