

Product datasheet for **RR209013**

Atg16l1 (NM_001108809) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg16l1 (NM_001108809) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atg16l1
Synonyms:	Apg16l; Wdr30
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR209013 representing NM_001108809
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGTCGGGCCTCCGCGCCGAGACTTCCCGCTGGAAGCGCCACATCGCGGAGGAAGTCTGAGCGCC
 GGGACCGCTGCAGAGGCAGGCGTTCGAGGAGATCATTCTGCAGTATACCAAGTTGCTGGAGAAGTCAGA
 TCTTCATTCAAGTATTGACCCAGAACTACAGGCTGAAAAGCACGACGTACCAAATAGGCATGAAATAAGT
 CCTGGGCACGATGGTGCATGGAATGACAGTACAGTACAAGAAATGGCCAGTTGAAGATGAAACACCAGG
 AAGAGCTGACTGAACTGCACAAGAAGCGTGGGAGTTAGCTCAGTTGGTATTGACCTGAATAACCAGAT
 GCAGCAGAAGGACAAGGAGATACAGACGAATGAAGCAAAGATTGCAGAGTGTTCACAGACCATCTCTGAC
 CTGGAGGCAGACTGCCTGGACCTGCGCACCAAAGTGCAGGACCTTGAGGTAGCCAACCAGACCCTGAAGG
 ATGAGTATGATGCCCTGCAGATTACTTTACTGCCCTAGAAGAGAAACTGAGGAAAAGTACTGAGGAGAA
 CCAGGAAGTGGTACCAGGTGGATGGCTGAGAAGGCCAAGAAGCCAATCGCCTTAATGCGGAGAATGAG
 AAGGACTCCAGGAGGCGACAAGCACGGTTGCAGAAGGAGCTTGCAGAAGCAGCAAAGGAACCTCTACCTG
 TCGAACAGGATGATGACATTGAAGTCATTGTAGATGAGACCTCAGATCACACAGAAGAGACCTCTCTGT
 GCGAGCCATCAGCAGAGCAGCTACTAAGCGACTCTCGCAGCCTGCTGGAGGCCTTCTGGATTCTATCACT
 AATATCTTTGGGAGACGCTCTGTCTCTCCATCCCAGTCCCCAAGATGTCGTGGACACTCATCTGCTT
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 AGTACAGTTCAGTCCAGGCTCCCGTTACTGGCCACTGGAGGCATGGACCGCAGGGTTAACTTTGGGAA
 GCATTCGGAGATAAATGTGAATCAAGGGCTCCCTGTCTGGCAGCAATGCGGGAATTAACAAGCATTGAAT
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 AAACAGTGTTCGACGGTCCAGCTGCAATGACATTGTTTGCAGTGAATGTGTAATGAGTGGACATTT
 TGACAAGAAAATCGTTTCTGGGATATCCGGTCAGAGAGTGTGGTCCGAGAGATGGAAGTGTAGGGGAA
 ATCACTGCTCTGGACTTAAACCCCGAGAGGACTGAGCTCCTGAGCTGCTCCCGTATGACCTGCTAAAAA
 TCATTGACCTGCGGACAAACGCCATCAAGCAGTCAATCAGTGCACCTGGATTCAAGTGTGGCTCTGACTG
 GACCCGAGTTGTCTTACGCCCTGATGGCAGTTACGTGGCAGCAGGCTCAGCTGACGGCTCTTTTATGTA
 TGGAGTGTCTCACGGGAAAGTAGAGAAGTTCTCTCAAGCAGCACAGCTCTTCTATCAATGCGGTGG
 CGTGGGCCCTCTGGCTTACATGTTGTCAGTGTGGCAAAGGAAGCAGAGCTGTCTATGGGCACAGCC
 T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RR209013 representing NM_001108809
 Red=Cloning site Green=Tags(s)

MSSGLRAADFPRWKRHIAEELRRRDLRQRQAFEEIILQYTKLLEKSDLHSVLTQKLQAEKHDVPRHEIS
 PGHDGAWNDSQLQEMAQLKMKHQEELTELHKRGELAQVIDLNNQMQQKDKIEIQTNEAKIAECLQTI
 LEADCLDLRKLQDLEVANQTLKDEYDALQITFTALEEKLRKTTEENQELVTRWMAEKAQEANRLNAENE
 KDSRRRQARLQKELAEAAKEPLPVEQDDIEIVDETSDHTEETSPVRAISRATKRLSQPAGLLDSIT
 NIFGRSVSSIPVPQDVVDTHPASGKDVVPTTASYVFDHDAHDGEVNAVQFSPGSRLLATGGMDRRVKLWE
 AFGDKCEFKGSLSGSNAGITSIEFDSAGAYLLAASNDFASRIWTVDDYRLRHTLTGHSKVL SAKFLLDN
 ARIVSGSHDRTLKLDLRSKVCIKTVFAGSSCNDIVCTEQCVMSGHFDKIRFDWIRSESVVREMELGK
 ITALDLNPERTELLSCSRDILLKIIDLRTNAIKQSF SAGPFKCGSDWTRVVFSPDGSYVAAGSADGSLYV
 WSVLTGKVEKVL SKQHSSINAVAWAPSGLHVVSVDKGSRAVLWAQP

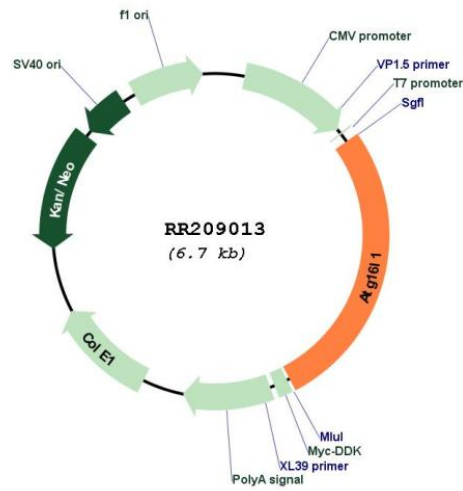
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001108809

ORF Size: 1821 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:	<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:	NM_001108809.3 , NP_001102279.2
RefSeq Size:	2949 bp
RefSeq ORF:	1824 bp
Locus ID:	363278
Cytogenetics:	9q35
MW:	68 kDa