

## Product datasheet for **RR208452**

### Atg4d (NM\_001101013) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atg4d (NM_001101013) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atg4d
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR208452 representing NM\_001101013  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAACCTCGGTGTCGCCGCTGCGGCGCAGTACCGCAGCGGGAGCCCGGAGGACGCGCGCCGCCGATT  
 GTCGCCGGCCGAGGGGACAAACCCGGATCCCGATCCCAGCAACCTTGGACCTTCGGGGTCTGGCGTGGC  
 AGCTCTCGGCTCAACTGGAAGTACCCCGCAGCCTGACGAGGTGGACAAGTTCAAACCAAGTTCCTG  
 ACAGCTTGAACAACGTCAAGTATGTTGGCAGTTAAAAGCCGGACCAGCTTCAGCAAGATCTCCAGTG  
 TTCATCTCTCGGGCGATGCTACCATTTGAGGGAGAGGGTGACATCCAGCGTTTCAAAGGGACTTTGT  
 ATCTCGACTATGGCTTACATATCGCCGGGACTTCCACCCTAGCTGGGAGCCTGACCTCAGACTGTGGC  
 TGGGGATGTATGTTACGAAGTGGTCAGATGATGCTGGCCAGGGCCTGCTCCTGCATTTTCTGCCTAGAG  
 ACTGGAGTGGTGGAGGGCACAGGATTGGCTCCTCTGAGATGCCAGGGCCAGCCTCTCCAGTCGATA  
 CCGAGGGCCTGGTCGCCGTGGTCTCTGCGATGCGCCAGGGTGCCTGGAGATGGAACCGGATCGCTGG  
 CACCGGGGATTGTTTCTGGTTTGTGATCATCTCAGGCCCTTCGGTCTACATCGCCTAGTGGAAAC  
 TTGGGCAGAGCTCTGGCAAGAAGGCAGGAGACTGGTATGGACCCTCTGTGGTGGCACACATCCTCAGGAA  
 AGCAGTGGAGAGCTGCTCAGAAGTACCCCGCTGGTGGTGTACGTCTCTCAGGACTGCACAGTGTACAAG  
 GCAGATGTGGCACGCCTGGTGTCTGGCCAGATCCCACAGCTGAGTGGAAAGTCTGTTGTCATCCTGGTGC  
 CTGTACGACTGGTGGGAGACTCTAACCCCTGTGTATGTGCCCTGTGTGAAGGAGCTTCTGCGCTCAGA  
 ACTCTGCCTGGCATTATGGGGGCAAACCTCGACATTCAGTGTACTTCACTGGCTATCAGGATGACTTT  
 CTGCTCTACCTGGATCCCCTACTGCCAGCCACAGTGGATGTCAACCAGGCCAACTCCCCTGGAGT  
 CCTTTCACTGCACCTCGCCCGCAAGATGGCCTTTGCCAAGATGGACCCAGCTGTACCGTGGGGTTCTA  
 TGCTGGGAACAGGAAGGAGTTTGGACCCCTGCTCGGAGCTGATGAGGATCCTCAGCTCCTCCTCAGTC  
 ACGGAACGTTACCCATGTTACAGTGGCTGAGGGCCATGCTCAGGACCACAGCCTGGATGCCCTCTGCA  
 CCCAGCTCTCCAGCCCACTGCGACTACCTGCACAGGACGCCTACTCAAGGCCAAAAGGCCAGCTC  
 TGAGGACTTTGTGTTTTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR208452 representing NM\_001101013  
 Red=Cloning site Green=Tags(s)

MNSVSPAAAQYRSGSPEDARRPDCRRPRGQTRIPDPSNLGSPSGVAALGSTGTDPAEPDEVDKFKTKFL  
 TAWNNVKYGWAVKSRTSFSKISSVHLCGRCYHFELEGDIQRFQRDFVSRLWLTYYRDFPPLAGSLTSDCG  
 WGCMLRSGQMMLAQLLLHFLPRDWRWVEGTGLASSEMPGPASPSRYRGPGRRGLRCAQGALEMEDRW  
 HRRIVSWFADHPQAPFGLHRLVELGQSSGKKAGDWWYGPSVVAHILRKAVESCSEVTRLVVYVSQDCTVYK  
 ADVARLVSWPDPTAEWKSIVILVPVRLGGETLNPVYVPCVKELLRSELCLGIMGGKPRHSLYFIFYQDDF  
 LLYLDPHYCQPTVDVNQANFPLEFSFHCTSPRKMAFAKMDPSCVGFYAGNRKEFETLCELMRILSSSSV  
 TERYPMFTVAEGHAQDHSLDALCTQLSQPTLRPLCTGRLLKAKRPSEDFVFL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

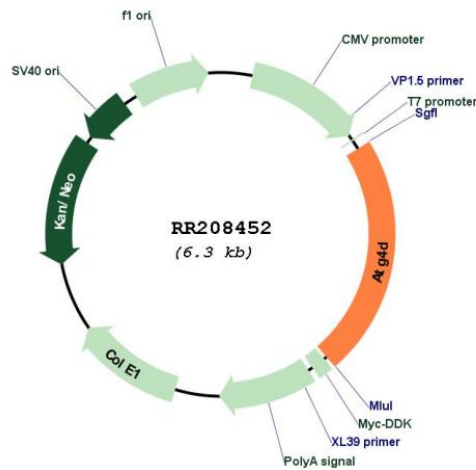
**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001101013

ORF Size: 1419 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\\_001101013.2](#), [NP\\_001094483.2](#)

**RefSeq Size:** 1957 bp

**RefSeq ORF:** 1422 bp

**Locus ID:** 686505

**Cytogenetics:** 8q13

**MW:** 52.8 kDa