

Product datasheet for **RR211124**

Atg4b (NM_001025711) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atg4b (NM_001025711) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Atg4b
Synonyms: Apg4b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211124 representing NM_001025711
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAACACTGTGGTGTGGAGGAAATCAGAAGATTGTCAGGGCCAGCCTTCCCTGTCCGGGGCCG
CTGCACTATCCATGGAGTCAGAGAGGCACTGTAACGGGCTCCCTGCTGGAGCTGAAGTACCAACAGGCC
CTTGGCCTGGAGACCATTAGTGCTTCTCATCCCTCTTCGCTGGGACTGACAGACATCAATGAGGCCTAT
GTGGAGACGCTGAAGCACTGTTTCATGATGCCCAAGTCCCTGGGTGTTATTGGAGGGAAGCCCAACAGTG
CCCACTACTTTATTGGCTACGTTGGTGAGGAGCTCATCTATCTGGATCCCATACTACACAGCCTGCAGT
GGAGCTGACAGACAGCTGCTTTATCCCCGACGAGAGCTTCCACTGCCAACACCCTCCCTGTCCGGATGGGC
ATTGGGGAGCTTGACCCATCCATTGCCGTGGGGTTTTTCTGTAAGACCGAGGAAGACTTTAATGACTGGT
GCCAGCAAGTCAAAAAGCTGTCCAGCTTGAGGTGCCCTGCCCATGTTTGAGTTGGTGGAAACAGCAGCC
TTCCCATCTGGCCTGCCAGGATGTCTGAACCTGTCCCTAGATTCTTCTGATGTAGAGAGACTGGAGAGG
TTCTTTGACTCTGAGGATGAAGACTTTGAAATCTTATCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211124 representing NM_001025711
 Red=Cloning site Green=Tags(s)

MDNTVVMEEIRRLCRASLPCAGAAALSMESERHCNGLPAGAEVTNRPLAWRPLVLLIPLRLGLTDINEAY
 VETLKHCFFMMPQSLGVIGGKPNSAHYFIGYVGEELIYLDPHTTQPAVELTDCSFPDES FHCQHPPCRMG
 IGELDPSIAVGFCKTEEDFNDWCQVKKLSQLGGALPMFELVEQQPSHLACQDVLNLSLDSSDVERLER
 FFDSSEDEDFEILSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

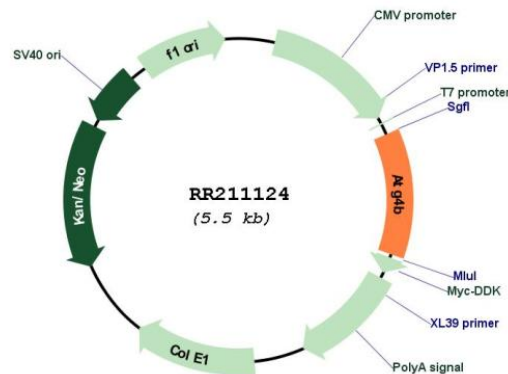
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001025711

ORF Size: 672 bp

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|-------------------------------|---|
| 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_001025711.1 , NP_001020882.1 |
| RefSeq Size: | 2471 bp |
| RefSeq ORF: | 675 bp |
| Locus ID: | 316640 |
| Cytogenetics: | 9q36 |
| MW: | 25 kDa |