

Product datasheet for **RR207459**

Atg4a (NM_001126298) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg4a (NM_001126298) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atg4a
Synonyms:	Agt4a; Atg4a1; RGD1588268
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207459 representing NM_001126298 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCAGTTATGTCCAAGTATGAAAACCAGATTATTATTTTCACTGAATACCTAGAAGAATCCCAG
ATACAGATGAGCTAGTATGGATCCTGGGAAGCCACATCTCCTTAAGACAGAAAAATCTAAGCTGTTGTC
TGATATAAGTGCTCGTCTATGGTTTACATACAGAAGGAAATTTTACCGATTGGGGGAACAGGCCCTTCG
TCGGATGCTGGCTGGGGATGTATGCTGCCTGTGGGCAGATGATGCTGGCTCAAGCCCTCATCTGTAGAC
ACTTGGGAAGGGATTGGAAGTGGGAGAGACAAAAAGAACAACCCAAAGAATACCAAAGGATACTGCAGTG
TTTCTAGATAGAAAAGACTGTTGCTATTCAATCCATCAGATGGCACAAATGGGTGTAGGAGAAGGGAAA
TCAATTGGCGAATGGTTTGGACCAATACAGTTGCACAGGTGATAAAAAAATTGCTTTATTTGATGAAT
GGAATTCCTTGGCTGTTTATGTTTCAATGGATAACACAGTGGTCATTGAAGATATCAAGAAAAATGTGCTG
TGTTCTTCTGTGGGTGCTGCTGACACAGCTGGTGAGAGCCCTCCTGATTCTCTGATTGCTTCCAGTCAG
AGTAAGGGCACCTCTGCCCGTGCCTAGCCTGGAACCCCTGCTGCTCATTGTGCCCTTCGCCTGGGCA
TAAACCAATCAACCCTGTGTATATTGAAGCATTCAAAGAGTGTTTAAGATGCCACAGCTTTAGGGGC
TTTAGGAGGAAAGCCAAATAACGCCTATTATTTTCATAGGATCCTTAGGTGACGAGTCATTTTCTGGAT
CCTCACACAACCCAGACCTTCGTTGATACTGAAGAGAGTGGACTAGTAGACGACCACACTTTCCATTGCC
TGCAGTCTCCACAGCGGATGAGTATCCTGAACTTGGATCCTTCTGTGGCCTTGGTGGGTCAAGGAGCTTT
TATGGGATTTTCTGCAAAGAAGAGAAAGACTTTGATAATTGGTGTAGTCTTGTTCAGAAGGAAATCTA
AAGGAGAATTTGAGGATGTTTGAATTAGTTCAGAAACATCCATCACACTGGCCTCCCTTTGTACCTCCAG
CCAAGCCAGAAGTGACAACCACAGGGGCAGAATTCATAGACTCTACCGAACAACTGGAGGACTTCGACCT
GGAGGAAGATTTTGAGATTCTGAGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207459 representing NM_001126298
 Red=Cloning site Green=Tags(s)

MESVMSKYENQIIIFTEYLEEFPDDEL VWILGKPHLLKTEKSKLLSDISARLWFTYRRKFSPIGGTGPS
 SDAGWGMLRCGQMLLAQALICRHLGRDWNWERQKEQPKEYQRILQCFLDRKDCCYSIHQMAQMGVGEK
 SIGEWFPGPNTVAQVIKKLALFDEWNSLAVVYVMDNTVVIEDIKKMCCVLPVGAADTAGESPDSL IASSQ
 SKGTSAPCLAWKPLLLIVPLRLGINQINPVYIEAFKECFKMPQSLGALGGKPNNAYYF IGSLGDELIFLD
 PHTTQTFVDTEESGLVDDHTFHCLQSPQRMSILNLDPSVALVGQAFMGFFCKEEKDFDNWCSLVQKEIL
 KENLRMFELVQKHPHWPPFVPPAKPEVTTTGAEFIDSTEQLEDFDLEEDFEILSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

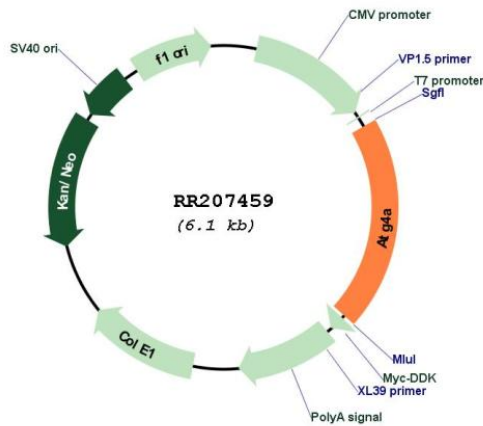
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001126298

ORF Size:	1218 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_001126298.1 , NP_001119770.1
RefSeq Size:	2171 bp
RefSeq ORF:	1221 bp
Locus ID:	678769
Cytogenetics:	Xq33
MW:	45.9 kDa