

Product datasheet for **MR208274**

Ate1 (NM_013799) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ate1 (NM_013799) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ate1
Synonyms:	A1225793; AW547406
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208274 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTCTTGGAGCGCCTTACCTAGCCTTGTAGAGTATTTGAGGGCCAGACCTCCTTCCAGTGTG
 GCTACTGCAAGAACAAGTTGGGCAGTCGCTCCTATGGCATGTGGGCACATTCCATGACAGTGCAGGATTA
 TCAGGATCTTATAGACCGAGGATGGAGAAGAAGTGGGAAATATGTGTACAAACCTGTCATGGATCAAACA
 TGCTGTCTCAGTATAACAATAAGGTGTCATCCTTTACAGTTTCAGCCATCAAAATCTCACAAGAAAGTTT
 TGAAAAAATGCTGAAATTTCTGGCTAAAGGAGAGATCTCGAAAGGCAATTGTGAGGATGAGCCCATGGA
 TTCTACAGTGGAGGATGCTGTTGACGGTGACTTTGCATTAATTAACAAGCTGGATATAAAGTGTGATCTC
 AAAACACTCAGTGACCTCAAAGGAAGCATAGAGAGTGAAGAGAAGGAGAAAGAAAAGAGTATAAAGAAAG
 AAGGGTCTAAAGAATTCATTCACAATCTATAGAGGAGAAGTTGGGCTCTGGTGAACCATCACATCC
 AATCAAAGTTCATATTGGTCTAAGCCAGGCAAAGGGGCTGACTTGAGTAAAGCTCCATGTCGAAAAGCA
 AGGAAAATGAGGAAAGAAAGGCAAAGATTAAAACGGATGCAGCAGGCCTCAGCTGCAGCCTCGGAGGCTC
 AAGGTCAGCCAGTCTGTTTGTACCAAAGGCTAAATCCAACAGCCCAAGTCACTGGAAGATTTGATTTT
 TCAATCTTTACCAGAAAATGCATCGCACAAAGTTAGAGGTGAGGGTGGTAAGATCTTCTCCACCAAGTCT
 CAGTTCAGAGCCACATTTAGGAGTCTTACCAGGTCTATAAACGCTACCAGATGGTTGTTACAAGGACC
 CGCCTGATAAGCCAACCGTGAGCCAGTTTACAAGATTCCTTTGCAGCTCACCATTTGGAGGCAGAGACCC
 TGCTGATGGACCAAGATGGTTATGGCTCCTTACCAGCAGTACTGGCTCGATGGGAAGATCATTGCT
 GTGGGGTGTAGACATCTCCCGTACTGTGTCTTCTGTGTATCTCTACTACGATCCTGATTATTCAT
 TTCTGTCTTTGGGTGCTATTACAGCATTAAAGAAAATTGCTTTTACTAGACAAGTGCAGTGAGAAAACATC
 GCAACTCAGTATTATTATATGGGTTTCTACATTCATTCCTGTCCAAGATGAGATACAAGGGTCAATAT
 AGACCTTCTGATTTGCTGTGCTGAGACGTATGTCTGGGTGCCATTGAGCAGTGCCTGCCTTCTCTGG
 ACAACTCCAAGTACTGCCGTTTCAACCAGGACCCGAAGCAGAGGATGAAGGACGCAGTAAGGAACCTTGA
 CCGACTAAGGGTGTTCACAGACGATCTGCCATGCCTTACGGTGTATAAGAATCACCAGAAGACCCA
 AGTGAGGAGGCTGGTGTGCTGGAGTATGCAAACCTCGTAGGACAGAAGTCTCGGAGAGGATGCTGCTGT
 TCAGACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208274 protein sequence
 Red=Cloning site Green=Tags(s)

MASWSAPSPSLVEYFEGQTSFQCGYCKNKLGSRSYGMWAHSMTVQDYQDLIDRGWRRSGKYVYKPVMDQT
 CCPQYTIKCHPLQFQPSKSHKKVLKMLKFLAKGEISKGNCDEPMDSTVEDAVDGFALINKLDIKCDL
 KTLSDLKGSIESEEKEKEKSIKKEGSKEFIHPQSIIEEKLGSSEPSHPKVIHIGPKPGKADLSKPPCRKA
 REMRKERQRLKRMQQASAAASEAQGPVCLLPKAKSNQPKSLEDLIFQSLPENASHKLEVRVVRSSPPSP
 QFRATFQESYQVYKRYQMVVHKDPPDKPTVSQFTRFLCSSPLEAEHPADGPECGYGSFHQQYWLKGKIIA
 VGVLDILPYCVSSVYLYDPDYSFLSLGVYSALREIAFTRQLHEKTSQLSYYMIFYIHSCKPMRYKQY
 RPSDLLCPETYVWVPIEQCLPSLDNSKYCRFNQDPEAEDEGRSKELDRLRVFHRRSAMPYGVYKNHQEDP
 SEEAGVLEYANLVGQKCSERMLLFRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_013799

ORF Size: 1551 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

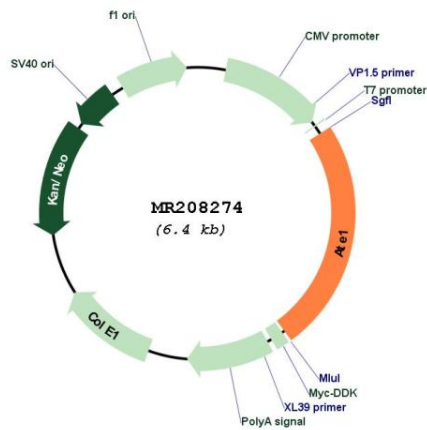
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_013799.3, NP_038827.2](#)
RefSeq Size: 4768 bp
RefSeq ORF: 1551 bp
Locus ID: 11907
UniProt ID: [Q9Z2A5](#)
Cytogenetics: 7 F3
MW: 59.1 kDa

Gene Summary: Involved in the post-translational conjugation of arginine to the N-terminal aspartate or glutamate of a protein. This arginylation is required for degradation of the protein via the ubiquitin pathway. Does not arginylate cysteine residues.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208274