

Product datasheet for **MC217276**

Ate1 (NM_001136054) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ate1 (NM_001136054) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ate1
Synonyms:	A1225793; AW547406
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217276 representing NM_001136054
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTCTTGGAGCGCCCTTACCTAGCCTTGTAGAGTATTTTGGAGGCCAGACCTCCTTCCAGTGTG
 GCTACTGCAAGAACAAGTTGGGCAGTCGCTCCTATGGCATGTGGGCACATTCCATGACAGTGCAGGATTA
 TCAGGATCTTATAGACCGAGGATGGAGAAGAAGTGGGAAATATGTGTACAAACCTGTCATGGATCAAACA
 TGCTGTCTCAGTATAACAATAAGGTGTCATCCTTTACAGTTTCAGCCATCAAAATCTCACAGAAAGTTT
 TGAAAAAATGCTGAAATTTCTGGCTAAAGGAGAGATCTCGAAAGGCAATTGTGAGGATGAGCCCATGGA
 TTCTACAGTGGAGGATGCTGTTGACGGTGACTTTGCATTAATTAACAAGCTGGATATAAAGTGTGATCTC
 AAAACACTCAGTGACCTCAAAGGAAGCATAGAGAGTGAAGAGAAGGAGAAAGAAAAGAGTATAAAGAAAG
 AAGGGTCAAAGAATTCATTCACCAATCTATAGAGGAGAAGTTGGGCTCTGGTGAACCATCACATCC
 AATCAAAGTTCATATTGGTCCTAAGCCAGGCAAAGGGGCTGACTTGAGTAAAGCTCCATGTCGAAAAGCA
 AGGAAAATGAGGAAAGAAAGGCAAAGATTAAAACGGATGCAGCAGGCCTCAGCTGCAGCCTCGGAGGCTC
 AAGGTCAGCCAGTCTGTTTGTACCAAAGGCTAAATCCAACAGCCCAAGTCACTGGAAGATTTGATTTT
 TCAATCTTTACCAGAAAATGCATCGCACAAAGTTAGAGGTGAGGCTAGTACCTGCCTCCTTTGAGGACCCA
 GAGTTCAACTCATCCTTCAACAGTCTTTTTCTTTATATACCAAGTATCAAGTGGCTATACACCAGGAAG
 CACCTGAAATATGTGAAAAGTCTGAGTTTACAAGATTCCTTTGCAGCTCACCATTTGGAGGCAGAGCACCC
 TGCTGATGGACCAAGATGGTTATGGTCCTTTCACCAGCAGTACTGGCTCGATGGGAAGATCATTGCT
 GTGGGGGTGTAGACATCTCCCGTACTGTGTCTTCTGTGTATCTCTACTACGATCCTGATTATTCAT
 TTCTGTCTTTGGGTGCTATTCAGCATTAAAGAAAATTGCTTTTACTAGACAAGTGCATGAGAAAACATC
 GCAACTCAGTATTATTATATGGGTTTCTACATTCATTCTGTCCCAAGATGAGATACAAGGGTCAATAT
 AGACCTTCTGATTTGCTGTGCTGAGACGTATGTCTGGGTGCCATTGAGCAGTGCCTGCCTTCTCTGG
 ACAACTCCAAGTACTGCCGTTTCAACAGGACCCGAAGCAGAGGATGAAGGACGCAGTAAGGAACCTTGA
 CCGACTAAGGGTGTTCACAGACGATCTGCCATGCCTTACGGTGTATAAAGAATCACCAAGAAGACCCA
 AGTGAGGAGGCTGGTGTGCTGGAGTATGCAAACCTCGTAGGACAGAAGTCTCGGAGAGGATGCTGCTGT
 TCAGACACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001136054

Insert Size: 1551 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001136054.2](#), [NP_001129526.1](#)

RefSeq Size: 4752 bp

RefSeq ORF: 1551 bp

Locus ID: 11907

Cytogenetics: 7 F3

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]
Transcript Variant: This variant (4) uses an alternate in-frame exon in the coding region, compared to variant 1. It encodes isoform 4.