

Product datasheet for **MR230310**

Ate1 (NM_001271343) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ate1 (NM_001271343) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ate1
Synonyms:	A1225793; AW547406
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR230310 representing NM_001271343
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTCGGTGGTGAATACAAGGCGCTGAAGGCCGGCTACTACTGCGGCTACTGCGAGTCCAGGAGG
 GCAAGACGTCGTGTGGCATGTGGGCACATTCCATGACAGTGCAGGATTATCAGGATCTTATAGACCGAGG
 ATGGAGAAGAAGTGGAAATATGTGTACAAACCTGTCATGGATCAAACATGCTGTCCTCAGTATAACAATA
 AGGTGTATCCTTTACAGTTTCAGCCATCAAAATCTCACAAGAAAGTTTTGAAAAAATGCTGAAATTTTC
 TGGCTAAAGGAGAGATCTCGAAAGGCAATTGTGAGGATGAGCCCATGGATTCTACAGTGGAGGATGCTGT
 TGACGGTGACTTTGCATTAATTAACAAGCTGGATATAAAGTGTGATCTCAAAACACTCAGTGACCTCAA
 GGAAGCATAGAGAGTGAAGAGAAGGAGAAAGAAAGAGTATAAAGAAAGAAGGGTCTAAAGAATTCATTC
 ATCCACAATCTATAGAGGAGAAGTTGGGCTCTGGTGAACCATCACATCCAATCAAAGTTCATATTGGTCC
 TAAGCCAGGCAAAGGGGCTGACTTGAGTAAGCCTCCATGTCGGAAGCAAGGGAAATGAGGAAAGAAAGG
 CAAAGATTAACCGGATGCAGCAGGCCTCAGCTGCAGCCTCGGAGGCTCAAGGTCAGCCAGTCTGTTTGT
 TACCAAAGGCTAAATCCAACAGCCCAAGTCACTGGAAGATTTGATTTTTCAATCTTTACCAGAAAATGC
 ATCGCACAAAGTTAGAGGTGAGGCTAGTACCTGCCTCCTTTGAGGACCCAGAGTTCAACTCATCTTCAAC
 CAGTCTTTTTCTTTATATACCAAGTATCAAGTGGCTATACACCAGGAAGCACCTGAAATATGTGAAAAGT
 CTGAGTTTACAAGATTCCTTTGCAGTCAACATTGGAGGCAGAGCACCTGCTGATGGACCAGAATGTGG
 TTATGGCTCCTTTACCAGCAGTACTGGCTCGATGGGAAGATCATTGCTGTGGGGGTGTTAGACATTCTC
 CCGTACTGTGTCTTCTGTGTATCTCTACTACGATCCTGATTATTCATTTCTGTCTTTGGGTGTCTATT
 CAGCATTAAGAGAAATTGCTTTTACTAGACAACATGCATGAGAAAACATCGCAACTCAGTATTATTATAT
 GGGTTTTCTACATTCATTCTGTCCCAAGATGAGATACAAGGGTCAATATAGACCTTCTGATTTGCTGTGT
 CCTGAGACGTATGCTGGGTGCCATTGAGCAGTGCCTGCCTTCTCTGGACAACCTCAAAGTACTGCCGT
 TCAACCAGGACCCGAAGCAGAGGATGAAGGACGAGTAAAGAACTTGACCGACTAAGGGTGTTCACAG
 ACGATCTGCCATGCCTTACGGTGTTTAAGAATCACCAAGAAGACCCAAGTGAAGGAGGCTGGTGTGCTG
 GAGTATGCAAACCTCGTAGGACAGAAGTCTCGGAGAGGATGCTGCTGTTACAGACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230310 representing NM_001271343
 Red=Cloning site Green=Tags(s)

MASVVEYKGLKAGYYCGYCESREGKTSKGMWAHSMTVQDYQDLIDRGWRRSGKYVYKPVMDQCCPQYTI
 RCHPLQFQPSKSHKVLKMLKFLAKGEISKGNCEDEPMDSTVEDAVDGFALINKLDIKDLKTLSDLK
 GSIIESEEKEKESIKKEGSKEFIHPQSIIEEKLGSSEPSHPKVIHIGPKPGKADLSKPPCRKAREMRKER
 QRLKRMQQASAAAASEAQGQPVCLLPKAKSNQPKSLEDLIFQSLPENASHKLEVRVLPASFEDPEFNSSFN
 QSFSLYTKYQVAIHQEAPEICEKSEFTRFLCSSPLEAEHPADGPECGYGSFHQYWLDKIIAVGVLDIL
 PYCVSSVYLYYDPDYSFLSLGVYSALREIAFTRQLHEKTSQLSYYYMGFYIHSPKMRKGYRPSDLLC
 PETYVWVPIEQCLPSLDNSKYCRFNQDPEAEDEGRSKELDRLRVFHRRSAMPYGVYKHNHQPSEAGVL
 EYANLVGQKCSERMLLFRH

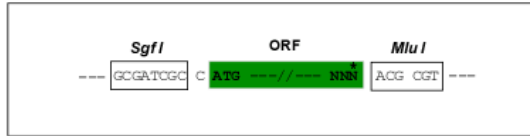
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

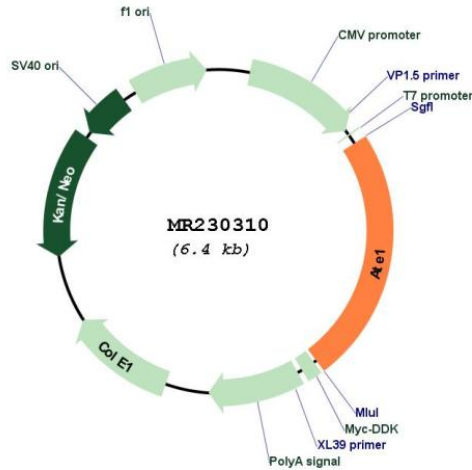
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001271343

ORF Size: 1527 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_001271343.1](#), [NP_001258272.1](#)

RefSeq Size: 5020 bp

RefSeq ORF: 1530 bp

Locus ID: 11907

Cytogenetics: 7 F3

MW: 58.7 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]