

Product datasheet for **MG222554**

Ate1 (NM_001029895) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ate1 (NM_001029895) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ate1
Synonyms:	A1225793; AW547406
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222554 representing NM_001029895
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTCGGTGGTGAATACAAGGCGCTGAAGGCCGGCTACTACTGCGGCTACTGCGAGTCCAGGAGG
 GCAAGACGTCGTGTGGCATGTGGGCACATTCCATGACAGTGCAGGATTATCAGGATCTTATAGACCGAGG
 ATGGAGAAGAAGTGGAAATATGTGTACAAACCTGTCATGGATCAACATGCTGTCCTCAGTATAACAATA
 AGGTGTATCCTTTACAGTTTCAGCCATCAAAATCTCACAAAGAAAGTTTGAAGAAATGCTGAAATTTT
 TGGCTAAAGGAGAGATCTCGAAAGGCAATTGTGAGGATGAGCCCATGGATTCTACAGTGGAGGATGCTGT
 TGACGGTGACTTTGCATTAATTAACAAGCTGGATATAAAGTGTGATCTCAAAACACTCAGTGACCTCAA
 GGAAGCATAGAGAGTGAAGAGAAGGAGAAAGAAAGAGTATAAAGAAAGAAGGGTCTAAAGAATTCATTC
 ATCCACAATCTATAGAGGAGAAGTTGGGCTCTGGTGAACCATCACATCCAATCAAAGTTCATATTGGTCC
 TAAGCCAGGCAAAGGGGCTGACTTGAGTAAGCCTCCATGTCGGAAGCAAGGGAAATGAGGAAAGAAAGG
 CAAAGATTAACCGGATGCAGCAGGCCTCAGCTGCAGCCTCGGAGGCTCAAGGTCAGCCAGTCTGTTTGT
 TACCAAAGGCTAAATCCAACAGCCCAAGTCACTGGAAGATTTGATTTTTCAATCTTTACAGAAAATGC
 ATCGCACAAAGTTAGAGGTGAGGGTGGTAAGATCTTCTCCACCAAGTCTCAGTTCAGAGCCACATTTT
 CAGGAGTCTTACCAGGTCTATAAACGCTACCAGATGGTTGTTTACAAAGGACCCCGCTGATAAGCCAACCGTGA
 GCCAGTTTACAAGATTCCTTTGCAGTCAACATGGAGGCAGAGCACCCTGCTGATGGACCAGAATGTGG
 TTATGGCTCCTTTACCAGCAGTACTGGCTCGATGGGAAGATCATTGCTGTGGGGGTGTTAGACATTTCTC
 CCGTACTGTGTCTTCTGTGTATCTCTACTACGATCCTGATTATTCATTTCTGTCTTTGGGTGTCTATT
 CAGCATTAAAGAAAATTGCTTTTACTAGACAACATGCATGAGAAAACATCGCAACTCAGTATTATTATAT
 GGGTTTCTACATTCATTCTGTCCCAAGATGAGATACAAGGGTCAATATAGACCTTCTGATTTGCTGTGT
 CCTGAGACGTATGCTGGGTGCCATTGAGCAGTGCCTGCCTTCTCTGGACAACCTCAAAGTACTGCCGT
 TCAACCAGGACCCGAAGCAGAGGATGAAGGACGAGTAAAGAACTTGACCGACTAAGGGTGTTCACAG
 ACGATCTGCCATGCCTTACGGTGTTTATAAGAATCACCAAGAAGACCCAAGTGAAGGAGGCTGGTGTGCTG
 GAGTATGCAAACCTCGTAGGACAGAAGTCTCGGAGAGGATGCTGCTGTTTACAGACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222554 representing NM_001029895
 Red=Cloning site Green=Tags(s)

MASVVEYKGLKAGYYCYCESREGKTCGMWAHSMTVQDYQDLIDRWRRSGKYVYKPVMDQTCPPQYTI
 RCHPLQFQPSKSHKKVLKMLKFLAKGEISKGNCDEPMDSTVEDAVDGFALINKLDIKDLKTLSDLK
 GSI ESEEKEKEKSIKKEGSKF IHPQSIEEKLGSGEPSHPKVIHIGPKPGKADLSKPPCRKAREMRKER
 QRLKRMQQASAAASEAQGPVCLLPKAKSNQPKSLEDLIFQSLPENASHKLEVRVVRSSPPSPQFRATFQ
 ESYQVYKRYQMVVHKDPPDKPTVSQFTRFLCSSPLEAEHPADGPECYGSFHQQYWL DGKI IAVGVLDIL
 PYCVSSVYLYYDPDYSFLSLGVYSALREIAFTRQLHEKTSQLSYYYMGFYIHSCPMMRYKQYRPSDLLC
 PETVYVWPVIEQCLPSLDNSKYCRFNQDPEAEDEGRSKELDRLRVFHRRSAMPYGVYKNHQEDPSEEAGVL
 EYANLVGQKCSERMLLFRH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001029895

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_001029895.3](#), [NP_001025066.1](#)

RefSeq Size: 1530 bp

RefSeq ORF: 1530 bp

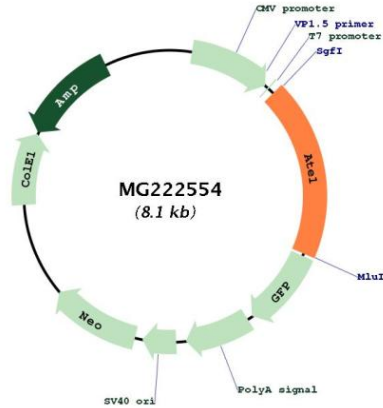
Locus ID: 11907

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]

Product images:



Circular map for MG222554