

## Product datasheet for **MR222608**

### Ate1 (NM\_001136054) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ate1 (NM_001136054) 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



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**ORF Nucleotide Sequence:**

>MR222608 representing NM\_001136054  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTTCTTGGAGCGCCTTACCTAGCCTTGTAGAGTATTTTGGAGGCCAGACCTCCTTCCAGTGTG  
 GCTACTGCAAGAACAAGTTGGGCAGTCGCTCCTATGGCATGTGGGCACATTCCATGACAGTGCAGGATTA  
 TCAGGATCTTATAGACCGAGGATGGAGAAGAAGTGGGAAATATGTGTACAAACCTGTCATGGATCAAACA  
 TGCTGTCTCAGTATAACAATAAGGTGTCATCCTTTACAGTTTCAGCCATCAAAATCTCACAAGAAAGTTT  
 TGAAAAAATGCTGAAATTTCTGGCTAAAGGAGAGATCTCGAAAGGCAATTGTGAGGATGAGCCCATGGA  
 TTCTACAGTGGAGGATGCTGTTGACGGTGACTTTGCATTAATTAACAAGCTGGATATAAAGTGTGATCTC  
 AAAACACTCAGTGACCTCAAAGGAAGCATAGAGAGTGAAGAGAAGGAGAAAGAAAAGAGTATAAAGAAAG  
 AAGGGTCTAAAGAATTCATTCACCAATCTATAGAGGAGAAGTTGGGCTCTGGTGAACCATCACATCC  
 AATCAAAGTTCATATTGGTCTAAGCCAGGCAAAGGGGCTGACTTGAGTAAAGCTCCATGTCGAAAAGCA  
 AGGGAAATGAGGAAAGAAAGGCAAAGATTAAAACGGATGCAGCAGGCCTCAGCTGCAGCCTCGGAGGCTC  
 AAGGTCAGCCAGTCTGTTTGTACCAAAGGCTAAATCCAACAGCCCAAGTCACTGGAAGATTTGATTTT  
 TCAATCTTTACCAGAAAATGCATCGCACAAAGTTAGAGGTGAGGCTAGTACCTGCCTCCTTTGAGGACCCA  
 GAGTTCAACTCATCCTTCAACAGTCTTTTTCTTTATATACCAAGTATCAAGTGGCTATACACCAGGAAG  
 CACCTGAAATATGTGAAAAGTCTGAGTTTACAAGATTCCTTTGCAGCTCACCATTTGGAGGCAGAGACCC  
 TGCTGATGGACCAAGATGGTTATGGCTCCTTTACCAGCAGTACTGGCTCGATGGGAAGATCATTGCT  
 GTGGGGGTGTAGACATCTCCCGTACTGTGTCTTCTGTGTATCTCTACTACGATCCTGATTATTCAT  
 TTCTGTCTTTGGGTGCTATTACAGCATTAAAGAAAATTGCTTTTACTAGACAAGTGCATGAGAAAACATC  
 GCAACTCAGTATTATTATATGGGTTTCTACATTCATTCTGTCCCAAGATGAGATACAAGGGTCAATAT  
 AGACCTTCTGATTTGCTGTGCTGAGACGTATGTCTGGGTGCCATTGAGCAGTGCCTGCCTTCTCTGG  
 ACAACTCCAAGTACTGCCGTTTCAACAGGACCCGAAGCAGAGGATGAAGGACGCAGTAAGGAACCTTGA  
 CCGACTAAGGGTGTTCACAGACGATCTGCCATGCCTTACGGTGTATAAAGAATCACCAGAAGACCCA  
 AGTGAGGAGGCTGGTGTGCTGGAGTATGCAAACCTCGTAGGACAGAAGTCTCGGAGAGGATGCTGCTGT  
 TCAGACAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222608 representing NM\_001136054  
 Red=Cloning site Green=Tags(s)

MASWSAPSPSLVEYFEGQTSFQCGYCKNKLGSRSYGMWAHSMTVQDYQDLIDRGWRRSGKYVYKPVMDQT  
 CCPQYTIKCHPLQFQPSKSHKKVLKMLKFLAKGEISKGNCEDEPMDSTVEDAVDGFALINKLDIKCDL  
 KTLSDLKGSIESEKEKEKSIKKEGSKEFIHPQSIIEKLGSGEPSPHIKVIHIGPKPGKADLSKPPCRKA  
 REMRKERQRLKRMQQASAAASEAQGPVCLLPKAKSNQPKSLEDLIFQSLPENASHKLEVRVLPASFDPE  
 EFNSSFNQSFSLYTKYQVAIHQEAPEICEKSEFTRFLCSSPLEAHPADGPECGYGSFHQQYWLDDGKIIA  
 VGVLDILPYCVSSVYLYYDPDYSLSLGVYSALREIAFTRQLHEKTSQLSYYMGMFYIHSCKMRYKQY  
 RPSDLLCPETYVWPIEQCLPSLDNSKYCRFNQDPEAEDEGRSKELDRLRVFHRRSAMPYGVYKKNHQEDP  
 SEEAGVLEYANLVGQKCSERMLLFRH

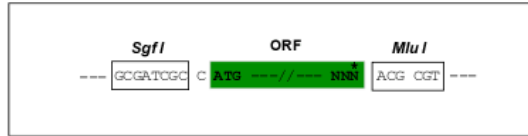
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

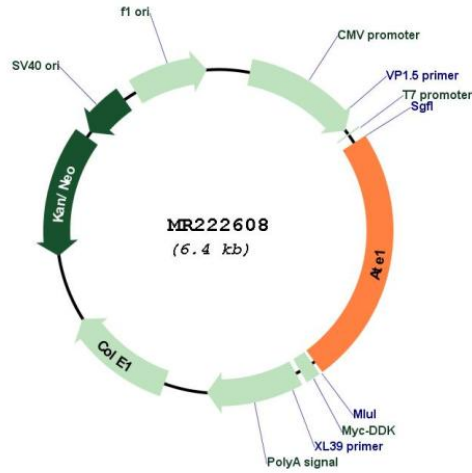
## Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



<b>ACCN:</b>	NM_001136054
<b>ORF Size:</b>	1548 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001136054.2</a> , <a href="#">NP_001129526.1</a>
<b>RefSeq Size:</b>	4752 bp
<b>RefSeq ORF:</b>	1551 bp
<b>Locus ID:</b>	11907
<b>Cytogenetics:</b>	7 F3
<b>MW:</b>	59.5 kDa
<b>Gene Summary:</b>	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]