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# Product datasheet for RC205461

## ATE1 (NM_007041) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | ATE1 (NM_007041) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | ATE1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**ORF Nucleotide Sequence:**

>RC205461 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTTCTGGGCGGGGGGTTCGCCCAGCGTCGTGGACTATTTCCCTAGCGAGGACTTCTACCGCTGCG
GCTACTGCAAGAACGAGTCGGGCAGCCGCTCCAATGGCATGTGGGCACATTCCATGACAGTACAGGATTA
TCAGGATCTCATAGACCGAGGATGGCGAAGAAGTGGAAAATATGTGTACAAACCTGTCATGAATCAAACA
TGTTGTCCTCAGTACACAATAAGGTGCCGACCTTTACAATTTCAGCCTTCAAAATCTCACAAGAAGGTTT
TGAAAAAAATGTTGAAATTTCTGGCTAAAGGGGAGGTTCCCAAAGGAAGTTGTGAGGATGAGCCCATGGA
TTCCACAATGGATGATGCTGTTGCGGGTGACTTTGCATTGATAAATAAACTGGATATACAGTGTGATCTT
AAAACACTCAGTGATGACATCAAAGAGAGTTTAGAGAGTGAAGGAAAAAATTCAAAGAAAGAAGAACCTC
AGGAATTACTTCAGTCACAAGATTTCGTAGGAGAGAAGTTGGGCTCTGGTGAACCGTCACATTCAGTTAA
AGTTCACACAGTTCCTAAGCCAGGCAAAGGGGCTGATTTGAGTAAGCCTCCATGTCGAAAAGCAAAGGAA
ATCCGGAAAGAAAGGAAAAGGTTAAAACTAATGCAGCAGAACCCAGCTGGAGAACTTGAGGGTTTCCAGG
CTCAAGGTCACCCACCATCTTTGTTTCCACCAAAGGCTAAATCCAACCAGCCAAAATCACTCGAAGATTT
AATTTTTGAGTCTTTACCAGAGAATGCATCACACAAGTTAGAGGTGAGGTTAGTACCTGTCTCCTTTGAG
GACCCAGAGTTCAAGTCGTCTTTCAGCCAGTCCTTTTCTTTGTATGTCAAGTATCAAGTGGCCATACACC
AGGATCCACCCGATGAATGTGGGAAGACTGAGTTCACAAGATTCCTTTGCAGTTCACCCTTGGAGGCAGA
GACTCCCCCTAATGGGCCAGATTGTGGCTATGGCTCCTTTCACCAGCAGTACTGGCTTGACGGAAAGATC
ATTGCTGTGGGGGTGATTGACATCCTCCCAAACTGTGTATCATCTGTGTATTTGTACTACGATCCTGATT
ATTCGTTTTTGTCTTTGGGCGTCTACTCTGCACTACGAGAAATTGCTTTTACTAGGCAGCTTCATGAGAA
AACTTCTCAACTCAGCTATTATTATATGGGTTTCTACATTCATTCGTGTCCCAAGATGAAATATAAGGGT
CAGTATAGACCTTCTGATTTGCTGTGCCCTGAGACATATGTTTGGGTACCCATTGAGCAATGCCTGCCTT
CACTTGAAAACTCCAAGTACTGCCGTTTCAACCAGGACCCAGAAGCAGTGGATGAGGATCGCAGTACGGA
ACCTGACCGATTGCAGGTGTTTCACAAGAGAGCCATCATGCCTTACGGTGTTTATAAGAAACAGCAGAAA
GACCCAAGTGAGGAGGCTGCTGTTCTGCAGTACGCCAGCCTGGTGGGGCAGAAGTGCTCCGAGCGGATGC
TGCTGTTCAGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205461 protein sequence
Red=Cloning site Green=Tags(s)

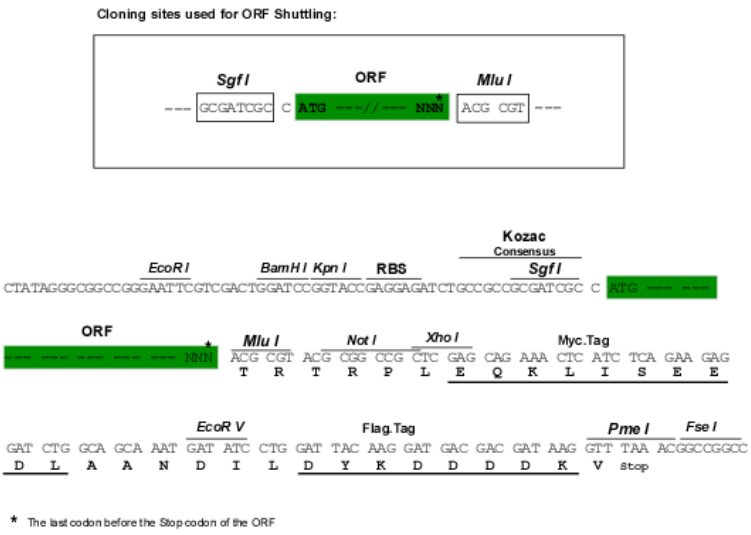
MAFWAGGSPSVVDYFPSEDFYRCGYCKNESGSRSNGMWAHSMTVQDYQDLIDRGWRRSGKYVYKPVMNQT
CCPQYTIRCRPLQFQPSKSHKKVLKKMLKFLAKGEVPKGSCEDEPMDSTMDDAVAGDFALINKLDIQCDL
KTLSDDIKESLESEGKNSKKEEPQELLQSQDFVGEKLGSGEPSHSVKVHTVPKPGKGADLSKPPCRKAKE
IRKERKRLKLMQQNPAGELEGFQAQGHPPSLFPPKAKSNQPKSLEDLIFESLPENASHKLEVRLVPVSFE
DPEFKSSFSQSFSLYVKYQVAIHQDPPDECGKTEFTRFLCSSPLEAETPPNGPDCGYGSFHQQYWLDGKI
IAVGVIDILPNCVSSVYLYYDPDYSFLSLGVYSALREIAFTRQLHEKTSQLSYYYMGFYIHSCPKMKYKG
QYRPSDLLCPETYVWVPIEQCLPSLENSKYCRFNQDPEAVDEDRSTEPDRLQVFHKRAIMPYGVYKKQQK
DPSEEAAVLQYASLVGQKCSERMLLFRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6314_d01.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_007041

**ORF Size:** 1554 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_007041.4

**RefSeq Size:** 4930 bp

**RefSeq ORF:** 1557 bp

**Locus ID:** 11101

**UniProt ID:** O95260

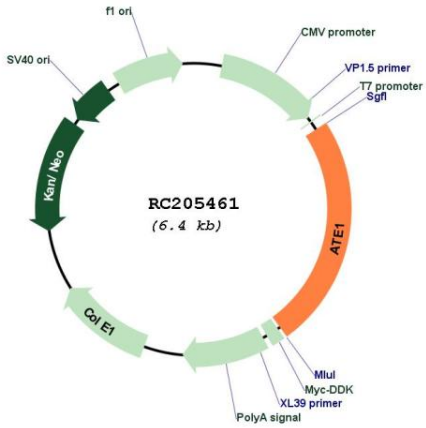
**Cytogenetics:** 10q26.13

**Domains:** ATE_N, ATE_C

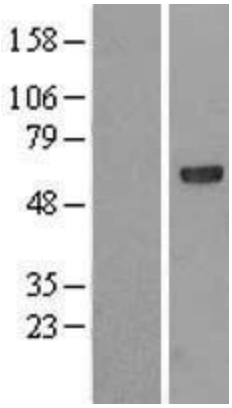
**MW:** 59 kDa

**Gene Summary:** This gene encodes an arginyltransferase, an enzyme that is involved in posttranslational conjugation of arginine to N-terminal aspartate or glutamate residues. Conjugation of arginine to the N-terminal aspartate or glutamate targets proteins for ubiquitin-dependent degradation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

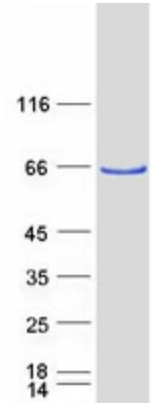
## Product images:




Circular map for RC205461




Western blot validation of overexpression lysate (Cat# [LY416240]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205461 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).




Coomassie blue staining of purified ATE1 protein (Cat# [TP305461]). The protein was produced from HEK293T cells transfected with ATE1 cDNA clone (Cat# RC205461) using MegaTran 2.0 (Cat# [TT210002]).