

Product datasheet for **RC238001**

ATE1 (NM_001288734) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: ATE1 (NM_001288734) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: ATE1
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RC238001 representing NM_001288734
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATTCCACAATGGATGATGCTGTTGCGGGTGACTTTGCATTGATAAATAAACTGGATATACAGTGTG
 ATCTTAAACACTCAGTGATGACATCAAAGAGAGTTTAGAGAGTGAAGGAAAAAATCAAAGAAAGAAGA
 ACCTCAGGAATTACTTCAGTCACAAGATTCGTTAGGAGAGAAGTTGGGCTCTGGTGAACCGTCACATTCA
 GTTAAAGTTCACACAGTTCCTAAGCCAGGCAAAGGGGCTGATTTGAGTAAAGCCTCCATGTCGAAAAGCAA
 AGGAAATCCGAAAAGAAAGGAAAAGGTTAAACTAATGCAGCAGAACCCAGCTGGAGAATTGAGGGTTT
 CCAGGCTCAAGGTCACCCACCATCTTTGTTCCACCAAAGGCTAAATCCAACCAGCCAAAATCACTCGAA
 GATTTAATTTTTGAGTCTTACCAGAGAATGCATCACACAAGTTAGAGGTGAGGGTGGTGAATCATCTC
 CACCAAGTTCGCAGTCAAAGCCCACTTCTGGAGTCTTACCAGGTCTATAAACGTTACCAGATGGTTAT
 TCACAAGAACCACCTGATACGCCAACGAAAGCCAGTTCACAAGATTCCTTGCAGTTCACCCTTGGAG
 GCAGAGACTCCCCCTAATGGGCCAGATTGTGGCTATGGCTCCTTTCACCAGCAGTACTGGCTTGACGGAA
 AGATCATTGCTGTGGGGTGATTGACATCTCCCAAAGTGTATCATCTGTGTATTTGACTACGATCC
 TGATTATTCGTTTTGTCTTTGGGCGTCTACTCTGCACTACGAGAAATTGCTTTTACTAGGCAGCTTCAT
 GAGAAAATTCTCAACTCAGCTATTATTATATGGGTTTCTACATTCATTCATGTCCCAAGATGAAATATA
 AGGGTCAGTATAGACCTTCTGATTTGCTGTGCCCTGAGACATATGTTGGGTACCCATTGAGCAATGCC
 GCCTTCACTTGAAAACCTCAAGTACTGCCGTTTCAACCAGGACCCAGAAGCAGTGGATGAGGATCGCAGT
 ACGGAACCTGACCATTGCAGGTGTTTCAAGAGAGCCATCATGCCTTACGGTGTTTATAAGAAACAGC
 AGAAAGACCCAAGTGAGGAGGCTGCTGTCTGCAGTACGCCAGCTGGTGGGGCAGAAGTGTCCGAGCG
 GATGCTGCTGTTTCAAGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC238001 representing NM_001288734
Red=Cloning site Green=Tags(s)

MDSTMDDAVAGDFALINKLDIQCDLKTLSDDIKESLESEGKNSKKEEPQELLQSQDFVGEKLGSGEP SHS
 VKVHTVPKPGKADLSKPPCRKAKEIRKERKRLKLMQQNPAGELEGFQAQGHPPSLFPPKAKSNQPKSLE
 DLIFESL PENASHKLEVRVVRSSPSSQFKATLLESYQVYKRYQMVIHKNPPDPTESQFTRFLCSSPLE
 AETPPNGPDCGYGSFHQQYWLDGKIIAVGVIDILPNCVSSVYL YYDPDYSFLSLGVYSALREIAFTRQLH
 EKTSQLSYYYMGFYIHSCPKMKYKGYRPSDLLCPETYVWVPIEQCLPSLENSKYCRFNQDPEAVDEDRS
 TEPDRLQVFHKRAIMPYGVYKKQKQDPSEEA AVLQYASLVGQKCSERM LLLFRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

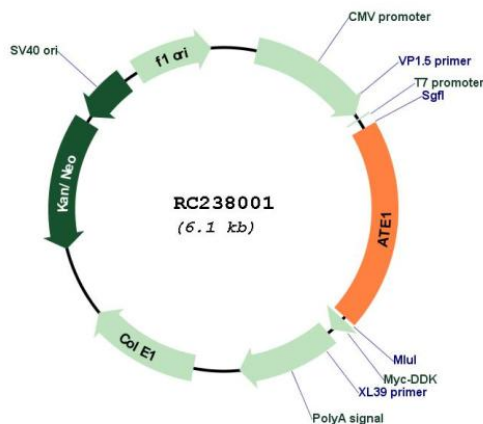
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288734

ORF Size:	1209 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:	<ol style="list-style-type: none">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_001288734.1 , NP_001275663.1
RefSeq Size:	4826 bp
RefSeq ORF:	1212 bp
Locus ID:	11101
UniProt ID:	O95260
Cytogenetics:	10q26.13
MW:	46.3 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]