

Product datasheet for **SC100893**

ATE1 (NM_007041) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATE1 (NM_007041) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATE1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC100893 sequence for NM_007041 edited (data generated by NextGen Sequencing)

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ATGGCTTTCTGGGCGGGGGTTCGCCAGCGTCGTGGACTATTTCCCTAGCGAGGACTTC
TACCGCTGCGGCTACTGCAAGAACGAGTCGGGCAGCCGCTCCAATGGCATGTGGGCACAT
TCCATGACAGTACAGGATTATCAGGATCTCATAGACCGAGGATGGCGAAGAAGTGGAAAA
TATGTGTACAAACCTGTCATGAATCAAACATGTTGTCTCAGTACACAATAAGGTGCCGA
CCTTTACAATTTACGCCTTCAAATCTCACAGAAGTTTTGAAAAAATGTTGAAATTT
CTGGCTAAAGGGGAGGTTCCCAAAGGAAGTTGTGAGGATGAGCCCATGGATTCCACAATG
GATGATGCTGTTGCGGGTGACTTTGCATTGATAAATAAACTGGATATACAGTGTGATCTT
AAAACACTCAGTGATGACATCAAAGAGAGTTTAGAGAGTGAAGGAAAAAATCAAAGAAA
GAAGAACCTCAGGAATTACTTCAGTCACAAGATTTCTAGGAGAGAAGTTGGGCTCTGGT
GAACCGTCACATTGAGTTAAAGTTCACACAGTTCCTAAGCCAGGCAAAGGGGCTGATTTG
AGTAAGCCTCCATGTCGAAAAGCAAAGGAAATCCGAAAGAAAAGGAAAAGTTAAACTA
ATGCAGCAGAACCAGCTGGAGAACTTGAGGGTTTCCAGGCTCAAGGTCACCCACCATCT
TTGTTTCCACAAAGGCTAAATCCAACCAGCCAAATCACTCGAAGATTTAATTTTTGAG
TCTTTACCAGAGAATGCATCACACAAGTTAGAGGTGAGGTTAGTACCTGTCTCCTTTGAG
GACCCAGAGTTCAAGTCGTCTTTAGCCAGTCCTTTTCTTTGTATGTCAAGTATCAAGTG
GCCATACACCAGGATCCACCCGATGAATGTGGGAAGACTGAGTTCACAAGATTCCTTTGC
AGTTACACCTTGAGGACAGAGACTCCCCCTAATGGGCCAGATTGTGGCTATGGCTCCTTT
CACCAGCAGTACTGGCTTGACGGAAGATCATTGCTGTGGGGGTGATTGACATCTCCCA
AACTGTGTATCATCTGTGATTTGTACTACGATCCTGATTATTCGTTTTTGTCTTTGGGC
GTCTACTCTGACTACGAGAAATGCTTTTACTAGGCAGCTTCATGAGAAAACTTCTCAA
CTCAGCTATTATATATGGGTTTCTACATTCATTGCTGCCAAGATGAAATATAAGGTT
CAGTATAGACCTTCTGATTTGCTGTGCCCTGAGACATATGTTTGGGTACCCATTGAGCAA
TGCTGCCTTCACTTGA AAACTCCAAGTACTGCCGTTTCAACCAGGACCCAGAAGCAGTG
GATGAGGATCGCAGTACGGAACCTGACCGATTGCAGGTGTTTACAAGAGAGCCATCATG
CCTTACGGTGTATAAGAAACAGCAGAAAGACCCAAAGTGAAGGAGGCTGCTGTTCTGCAG
TACGCCAGCTGGTGGGGCAGAAGTGCTCCGAGCGGATGCTGCTGTTTCAGAACTGA

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Clone variation with respect to NM_007041.2
1236 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007041 unedited

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NNNACTTTTCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATAT
AAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGC
CGCGAATTCGGCACGAGGGGGTGGCGGCGGCGCCGCGCTAGCGACGCGGGGCCGGGCGG
CTGAGCGTTCGCGGGGCCGAGGCCATGGCTTTCTGGCGGGGGTTCGCCACGCGTCGTG
GACTATTTCCCTAGCGAGGACTTCTACCGCTGCGGCTACTGCAAGAACGAGTCGGGCAGC
CGCTCCAATGGCATGTGGGCACATTCCATGACAGTACAGGATTATCAGGATCTCATAGAC
CGAGGATGGCGAAGAAGTGGAAAATATGTGTACAAACCTGTCATGAATCAAACATGTTGT
CCTCAGTACACAATAAGGTGCCGACCTTTACAATTTAGCCTTCAAATCTCACAGAAG
GTTTTGAAAAAATGTTGAAATTTCTGGCTAAAGGGGAGGTTCCCAAAGGAAGTTGTGAG
GATGAGCCCATGGATTCCACAATGGATGATGCTGTTGCGGGTGACTTTGCATTGATAAAT
AAACTGGATATACAGTGTGATCTTAAAACACTCAGTGATGACATCAAAGAGAGTTAGAG
AGTGAAGGAAAAAATCAAAGAAAGAAGAACCTCAGGAATTACTTCAGTCACAAGATTTCT
GTAGGAGAGAAGTTGGGCTCTGGTGAACCGTCACATTGAGTTAAAGTTCACACAGTTCCT
AAGCCAGGCTAAGGGGCTGATTTGAGTCAGCCTTCATGTCTAAAAGCACAGACATCCTGT
AAGACAGTACCAGTTACAACATAATGCAGCAGAACCAGCTGGAGAAGTTGAGGGNTTTC
AGNCTCACGGTCCA

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Restriction Sites:

NotI-NotI

ACCN:

NM_007041

Insert Size:	4700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_007041.2</u> , <u>NP_008972.2</u>
RefSeq Size:	2224 bp
RefSeq ORF:	1557 bp
Locus ID:	11101
UniProt ID:	<u>O95260</u>
Cytogenetics:	10q26.13
Domains:	ATE_N, ATE_C
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is the same length as isoform 1 but has a unique internal segment. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>