

Product datasheet for **RG217013**

ATE1 (NM_001001976) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATE1 (NM_001001976) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217013 representing NM_001001976
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTTTCTGGCGGGGGTTCGCCAGCGCTCGTGGACTATTTCCCTAGCGAGGACTTCTACCGCTGCG
 GCTACTGCAAGAACGAGTCGGGACGCCCTCCAATGGCATGTGGGCACATTCCATGACAGTACAGGATTA
 TCAGGATCTCATAGACCGAGGATGGCGAAGAAGTGGAAAAATGTGTACAAACCTGTCATGAATCAAACA
 TGTTGTCCTCAGTACACAATAAGGTGCCGACCTTTACAATTTAGCCTTCAAAATCTCACAAGAAGGTTT
 TGAAAAAATGTTGAAATTTCTGGCTAAAGGGGAGGTTCCCAAAGGAAGTTGTGAGGATGAGCCCATGGA
 TTCCACAATGGATGATGCTGTTGCGGGTACTTTGCATTGATAAAATAAAGTGGATATACAGTGTGATCTT
 AAAACACTCAGTGTGACATCAAAGAGAGTTTAGAGAGTGAAGGAAAAAATTCAAAGAAAGAAGAACCTC
 AGGAATTACTTCACTACAAGATTTTCGAGGAGAGAAGTTGGGCTCTGGTGAACCGTCACATTCAAGTTAA
 AGTTACACAGATTCCTAAGCCAGGCAAAGGGGCTGATTTGAGTAAAGCCTCCATGTCGAAAAGCAAAGGAA
 ATCCGGAAGAAAGGAAAGGTTAAACTAATGCAGCAGAACCCAGCTGGAGAATTTGAGGGTTTCCAGG
 CTCAAGGTCACCCACCATCTTTGTTTCCACAAAGGCTAAATCCAACAGCCAAAATCACTCGAAGATTT
 AATTTTTGAGTCTTTACCAGAGAATGCATCACACAAGTTAGAGGTGAGGGTGGTGAAGATCATCTCCACCA
 AGTTTCGAGTTCAAAGCCACACTTCTGGAGTCTTACCAGGTCTATAAACGTTACCAGATGGTTATTCACA
 AGAACCCACCTGATACGCCAACCGAAAGCCAGTTCACAAGATTCCTTTCAGTTCACCTTGGAGGCAGA
 GACTCCCCTAATGGGCCAGATTGTGGCTATGGCTCCTTCCACAGCAGTACTGGCTTGACGAAAGATC
 ATTGCTGTGGGGTATTGACATCTCCAAACTGTGTATCATCTGTGTATTTGACTACGATCTGTGATT
 ATTCGTTTTTGTCTTTGGCGCTACTCTGCACTACGAGAAATGCTTTTACTAGGCAGTTCAGAGAA
 AACTTCTCAACTCAGCTATTATTATATGGGTTTCTACATTCATTCATGTCCTCAAGATGAAATATAAGGGT
 CAGTATAGACCTTCTGATTTGCTGTGCCCTGAGACATATGTTTGGTACCATTGAGCAATGCCTGCCTT
 CACTTGAAAACCTCAAGTACTGCCGTTTCAACCAGGACCCAGAAGCAGTGGATGAGGATCGCAGTACGGA
 ACCTGACCGATTGCAGGTGTTTCAAGAGAGCCATCATGCCTTACGGTGTTTATAAGAAACAGCAGAAA
 GACCCAAGTGAGGAGGCTGCTGTTCTGCAGTACGCCAGCTGGTGGGCAGAAAGTCTCCGAGCGGATGC
 TGCTGTTCAGAAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217013 representing NM_001001976
 Red=Cloning site Green=Tags(s)

MAFWAGGSPSVVDYFPSEDFYRCGYCKNESGSRNSNGMWAHSMTVQDYQDLIDRGWRRSGKYVYKPVMNQT
 CCPQYTIKCRPLQFQPSKSHKVLKMLKFLAKGEVPGKSCDEPMDSTMDDAVAGDFALINKLDIQCDL
 KTLSDDIKESLESEGKNSKKEEPQELLQSQDFVGEKLGSGEPSSVVKVHTVPKPGKADLSKPPCRKAKE
 IRKERKRLKLMQONPAGELEGFQAQGHPPSLFPPKAKSNQPKSLEDLIFESLPENASHKLEVRVVRSSPP
 SSQFKATLLESYQYKRYQMVIIHKNPPDPTESQFTRFLCSSPLEAETPPNGPDCGYGSFHQQYWLGDGI
 IAVGVIDILPNCVSSVYLYYDPDYSFLSLGVYSALREIAFTRQLHEKTSLSYYMYGFYIHSPCKMKYKG
 QYRPSDLLCPETYVWVPIEQCLPSLENSKYCRFNQDPEAVDEDRSTEPDRQLQVFKHRAIMPYGVYKQKQK
 DPSEEAVALQYASLVGQKCSERMLLFRN

TRTRPLE – GFP Tag – V

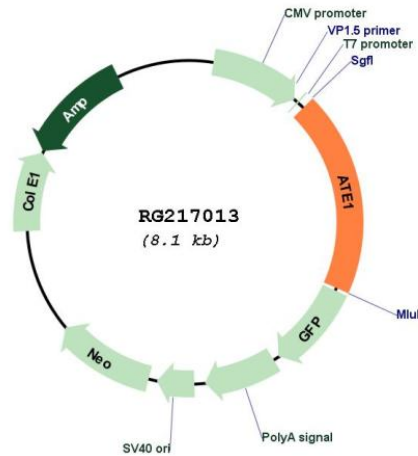
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001001976

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_001001976.1](#), [NP_001001976.1](#)

RefSeq Size: 2224 bp

RefSeq ORF: 1557 bp

Locus ID: 11101

UniProt ID: [O95260](#)

Cytogenetics: 10q26.13

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]