

## Product datasheet for **RG205461**

### **ATE1 (NM\_007041) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ATE1 (NM_007041) 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:**

>RG205461 representing NM\_007041  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCTTTCTGGCGGGGGTTCGCCAGCGCTCGTGGACTATTTCCCTAGCGAGGACTTCTACCGCTGCG  
 GCTACTGCAAGAACGAGTCGGGCAGCCGCTCCAATGGCATGTGGGCACATTCCATGACAGTACAGGATTA  
 TCAGGATCTCATAGACCGAGGATGGCGAAGAAGTGGAAAAATATGTGTACAAACCTGTCATGAATCAAACA  
 TGTTGTCCTCAGTACACAATAAGGTGCCGACCTTTACAATTTAGCCTTCAAATCTCACAAGAAGGTTT  
 TGAAAAAATGTTGAAATTTCTGGCTAAAGGGGAGGTTCCCAAAGGAAGTTGTGAGGATGAGCCCATGGA  
 TTCCACAATGGATGATGCTGTTGCGGGTACTTTGCATTGATAAATAAACTGGATATACAGTGTGATCTT  
 AAAACACTCAGTATGACATCAAAGAGAGTTTAGAGAGTGAAGGAAAAAATTCAAAGAAAGAAGAACCTC  
 AGGAATTACTTCACTACAAGATTTTCGAGGAGAGAAGTTGGGCTCTGGTGAACCGTACATTGATTA  
 AGTTACACAGTTCTAAGCCAGGCAAAGGGGCTGATTTGAGTAAAGCCTCCATGTCGAAAAGCAAAGGAA  
 ATCCGGAAGAAAGGAAAGGTTAAAACTAATGCAGCAGAACCCAGCTGGAGAATTTGAGGGTTCCAGG  
 CTCAAGGTCACCCACCATCTTTGTTTCCACAAAGGCTAAATCCAACCAGCCAAAATCACTCGAAGATTT  
 AATTTTTGAGTCTTTACCAGAGAATGCATCACACAAGTTAGAGGTGAGGTTAGTACCTGTCTCTTTGAG  
 GACCCAGAGTTCAAGTCGCTTTTCAGCCAGTCTTTTCTTTGTATGTCAAGTATCAAGTGGCCATACACC  
 AGGATCCACCCGATGAATGTGGGAAGACTGAGTTCACAAGATTCCTTTGCAGTTCACCCCTGGAGGCAGA  
 GACTCCCCTAATGGGCCAGATTGTGGCTATGGCTCCTTTCACCAGCAGTACTGGCTTGACGAAAGATC  
 ATTGCTGTGGGGTGATTGACATCTCCCAAAGTGTGTATCATCTGTGTATTTGACTACGATCCCTGATT  
 ATTCGTTTTTGTCTTTGGCGCTACTCTGCACTACGAGAAATGCTTTTACTAGGCAGTTCAGAGAA  
 AACTTCTCAACTCAGCTATTATTATATGGGTTTCTACATTCATTGTCGTCGCAAGATGAAATATAAGGGT  
 CAGTATAGACCTTCTGATTTGCTGTGCCCTGAGACATATGTTTGGGTACCCATTGAGCAATGCCTGCCTT  
 CACTTGAAAACCTCAAGTACTGCCGTTTCAACCAGGACCCAGAAGCAGTGGATGAGGATCGCAGTACGGA  
 ACCTGACCGATTGCAGGTGTTTACAAGAGAGCCATCATGCCTTACGGTGTTTATAAGAAACAGCAGAAA  
 GACCCAAGTGAGGAGGCTGCTGTTCTGCAGTACGCCAGCCTGGTGGGCGAGAAGTCTCCGAGCGGATGC  
 TGCTGTTCAGAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG205461 representing NM\_007041  
 Red=Cloning site Green=Tags(s)

MAFWAGGSPSVVDYFPSEDFYRCGYCKNESGSRNSNGMWAHSMTVQDYQDLIDRGWRRSGKYVYKPVMNQT  
 CCPQYTIKCRPLQFQPSKSHKKVLKMLKFLAKGEVPGKSCDEPMDSTMDDAVAGDFALINKLDIQCDL  
 KTLSDDIKESLESEGKNSKKEEPQELLQSQDFVGEKLGSGEPSSHVKVTVPKPGKADLSKPPCRKAKE  
 IRKERKRLKLMQQNPAGELEGFQAQGHPPSLFPPKAKSNQPKSLEDLIFESLPENASHKLEVRVLPVSFE  
 DPEFKSSFQSFLYVKYQVAIHQDPPDECCKTEFTRFLCSSPLEAETPPNGPDCGYGSFHQQYWLDDGKI  
 IAVGVIDILPNCVSSVYLYDPDYSFLSLGVYSALREIAFTRQLHEKTSLSYYMIFYIHSPKMKYKQ  
 QYRPSDLLCPETYVWVPIEQCLPSLENSKYCRFNQDPEAVDEDRSTEPDRQLQVFKHRAIMPYGVYKQKQK  
 DPSEEAVALQYASLVGQKCSERMLLFRN

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-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\\_007041.2](#), [NP\\_008972.2](#)

**RefSeq Size:** 2224 bp

**RefSeq ORF:** 1557 bp

**Locus ID:** 11101

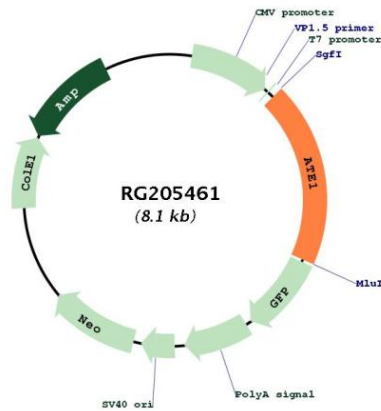
**UniProt ID:** [O95260](#)

**Cytogenetics:** 10q26.13

**Domains:** ATE\_N, ATE\_C

**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 RG205461