

Product datasheet for **RG238643**

ATE1 (NM_001288736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATE1 (NM_001288736) 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:

>RG238643 representing NM_001288736.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGTCGGTGGTGAATACAAGGGCCTCAGGGCCGGCTACCACTGCGGCTACTGCGATTCCAAGGAG
GGCAAAGCGTCTGCGGCATGTGGGCACATTCATGACAGTACAGGATTATCAGGATCTCATAGACCGA
GGATGGCGAAGAAGTGGAAAATATGTGTACAAACCTGTCATGAATCAAACATGTTGTCTCAGTACACA
ATAAGGTGCCGACCTTTACAATTCAGCCTTCAAATCTCACAAGAAGTTTTGAAAAAATGTTGAAA
TTTCTAGCTAAAGGGGAGGTTCCCAAAGGAAGTTGTGAGGATGAGCCATGGATTCCACAATGGATGAT
GCTGTTGCGGGTACTTTGCATTGATAAATAAACTGGATATACAGTGTGATCTTAAACACTCAGTGAT
GACATCAAAGAGAGTTTAGAGAGTGAAGGAAAAAATCAAAGAAAGAAGAACCTCAGGAATTACTTCAG
TCACAAGATTCGTAGGAGAGAAGTTGGGCTCTGGTGAACCGTCACATTCAGTTAAAGTTCACACAGTT
CCTAAGCCAGGCAAAGGGGCTGATTTGAGTAAGCCTCCATGTCGAAAAGCAAAGGAAATCCGAAAGAA
AGGAAAAGGTTAAACTAATGCAGCAGAACCCAGCTGGAGAAGTTGAGGGTTTCCAGGCTCAAGGTCAC
CCACCATCTTTGTTTCCACCAAAGGCTAAATCCAACCAGCCAAAATCACTCGAAGATTTAATTTTGGAG
TCTTTACCAGAGAATGCATCACACAAGTTAGAGGTGAGGTTAGTACCTGTCTCCTTTGAGGACCCAGAG
TTCAAGTCGTCTTTACGCCAGTCTTTTCTTTGTATGTCAAGTATCAAGTGGCCATACACCAGGATCCA
CCCAGTGAATGTGGGAAGACTGAGTTCACAAGATTCCTTTGCAGTTCACCTTGGAGGCAGAGACTCCC
CCTAATGGGCCAGATTGTGGCTATGGCTCTTTACCAGCAGTACTGGCTTGACGGAAAGATCATTGCT
GTGGGGTGATTGACATCCTCCAAACTGTGTATCATCTGTGATTTGTACTACGATCCTGATTATTCG
TTTTTGTCTTTGGCGTCTACTCTGCACTACGAGAAATGCTTTTACTAGGCAGCTTCATGAGAAAACT
TCTCAACTCAGTATTATTATATGGGTTTCTACATTCATTCATGCCAAGATGAAATATAAGGGTCAG
TATAGACCTTCTGATTTGCTGTGCCCTGAGACATATGTTTGGGTACCCATTGAGCAATGCCTGCCTTCA
CTTGAAAACCTCCAAGTACTGCCGTTTCAACCAGGACCCAGAAGCAGTGGATGAGGATCGCAGTACGGAA
CCTGACCGATTGCAGGTGTTTACAAGAGAGCCATCATGCCTTACGGTGTATAAGAAACAGCAGAAA
GACCCAAGTGAGGAGGCTGCTGTCTGCAGTACGCCAGCCTGGTGGGCAGAAAGTCTCCGAGCGGATG
CTGCTGTTCAGAAAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238643
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MASVVEYKGLRAGYHCGYCDKKEGKASCGMWAHSMTVQDYQDLIDRGWRRSGKYVYKPVMNQTCPPQYT
IRCRLQFQPSKSHKVLKMLKFLAKGEVPGKSCDEPMDSTMDDAVAGDFALINKLDIQCDLKTLSLSD
DIKESLESEGKNSKKEEPQELLQSQDFVGEKLGSGEPHSHVHTVVPKPGKADLSKPPCRKAKEIRKE
RKRLKLMQONPAGELEGFQAQGHPPSLFPPKAKSNQPKSLEDLIFESLPENASHKLEVRVLPVVFEDPE
FKSSFQSFSLYVKYQVAIHQDPPDECCKTEFTRFLCSSPLEAETPPNGPDCGYGSFHQQYWLDGKIIA
VGVIDILPNCVSSVYLYDPDYSFLSLGVYSALREIAFTRQLHEKTSQLSYYMIFYIHSCKPKMKYKQ
YRPSDLLCPETYVWPIEQCLPSLENSKYCRFNQDPEAVDEDRSTEPDRLQVFKRAIMPYGVYKQKQK
DPSEEAVALQYASLVGQKCSERMLLFRN
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

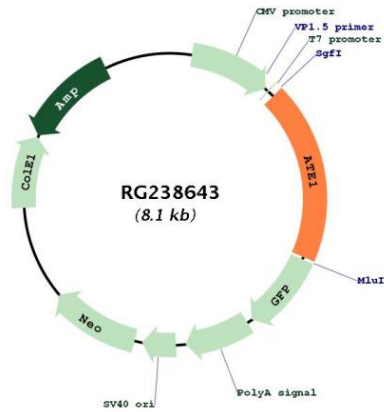
Restriction Sites:

Sgfl-MluI

Cloning Scheme:


- ACCN:** NM_001288736
- ORF Size:** 1533 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).
- RefSeq:** [NM_001288736.1](#), [NP_001275665.1](#)
- RefSeq Size:** 5165 bp
- RefSeq ORF:** 1536 bp
- Locus ID:** 11101
- UniProt ID:** [O95260](#)
- Cytogenetics:** 10q26.13
- MW:** 58.6 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 RG238643