

Product datasheet for **RG219206**

ATAD1 (NM_032810) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATAD1 (NM_032810) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATAD1
Synonyms:	AFDC1; FNP001; HKPX4; Msp1; THORASE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219206 representing NM_032810 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTACATGCTGAAGCCTTTTCTCGTCCTTTGAGTCGGAATGAAGTTGTTGGTTAATTTCCGTTTGA
CAATATTTGGTGCAGTGACATACTTTACTATCAAATGGATGGTAGATGCAATTGATCCAACCAGAAAAGCA
AAAAGTAGAAGCTCAGAAACAGGCAGAAAACTAATGAAGCAAATGGAGTGAAAAATGTGAAGCTCTCA
GAATATGAAATGAGTATTGCTGCTCATCTGTAGACCCTTAAATATGCATGTTACTTGGAGTGATATAG
CAGGTTTATAGATGATGTCATTACGGATCTGAAAGACACAGTCATCTTACCTATCAAAAAGAACATTTGTT
TGAGAATTCAGGCTTCTGCAGCCTCCAAAAGGTGTTCTTCTCTATGGGCCTCCAGGCTGTGGTAAAACG
TTGATTGCCAAGGCCACAGCCAAAGAAGCAGGCTGTGATTTATTAACCTTCAGCCTTCGACACTGACCG
ATAAGTGGTATGGAGAATCTCAGAAATGGCTGCTGCTGCTTCTCCCTTGCCATAAAGCTACAACCATC
CATCATCTTTATAGATGAAATAGACTCCTTTCTACGAAACCGTTCAAGTTCTGACCATGAAGCTACAGCC
ATGATGAAAGCTCAGTTTATGAGTCTCTGGGATGGATTGGATACTGATCACAGCTGCCAGGTCATAGTAA
TGGGAGCTACCAATCGTCCTCAGGACCTTGACTCGGCTATAATGAGAAGAATGCCTACAAGATTTTCATAT
CAACCAGCCTGCTTTAAAACAGAGAGAAGCAATCCTGAAACTCATCTTAAAAATGAAAAATGTGGATAGG
CATGTAGACCTGCTAGAAGTTGCCAGGAACTGATGGGTTTTTCAGGAAGTGACCTAAAAGAGATGTGTC
GAGATGCTGCCCTCCTGTGTTAGAGAATATGTTAATTCATACATCAGAAGAAAGCCATGACGAAGATGA
AATTCGGCCTGTTCAACAGCAGGACCTGCATCGGCAATTGAAAAGATGAAGAAATCAAAGGATGCAGCA
TTTCAGAAATGTTTAAACACATGTTTGTAGAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219206 representing NM_032810
Red=Cloning site Green=Tags(s)

MVHAEAFSRPLSRNEVVGLIFRLTIFGAVTYFTIKWMVDAIDPTRKQKVEAQKQAEKLMKQIGVKNVKLS
 EYEMSIAAHLVDPLNMHVTWSDIAGLDDVITDLKDTVILPIKHKHLFENSRLQPPKGVLLYGPPGCGKT
 LIAKATAKEAGCRFINLQPSTLTDKWYGESQKLA AVFSLAIKLP SII FIDEIDSFLNRSSSDHEATA
 MMKAQFMSLWDGLDTHSCQVIVMGATNRPQDLDSAIMRRMPTRFHINQPALKQREAILKILKNENVDR
 HVDLLEVAQETDGFSGSDLKEMCRDAALLCVREYVNSTSEESHDEDEIRPVQQDLHRAIEKMKKSKDAA
 FQNVLTHVCLD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032810

ORF Size: 1083 bp

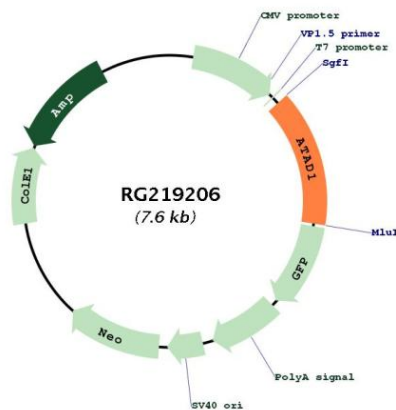
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_032810.3](#), [NP_116199.2](#)
- RefSeq Size:** 3034 bp
- RefSeq ORF:** 1086 bp
- Locus ID:** 84896
- UniProt ID:** [Q8NBU5](#)
- Cytogenetics:** 10q23.31
- Gene Summary:** ATPase that plays a critical role in regulating the surface expression of AMPA receptors (AMPA), thereby regulating synaptic plasticity and learning and memory. Required for NMDA-stimulated AMPAR internalization and inhibition of GRIA1 and GRIA2 recycling back to the plasma membrane; these activities are ATPase-dependent (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG219206