

Product datasheet for **SC103324**

ATAD1 (NM_032810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATAD1 (NM_032810) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATAD1
Synonyms:	AFDC1; FNP001; HKPX4; Msp1; THORASE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032810, the custom clone sequence may differ by one or more nucleotides

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ATGGTACATGCTGAAGCCTTTTCTCGTCCTTTGAGTCGGAATGAAGTTGTTGGTTTAATTTCCGTTTGA  
CAATATTTGGTGCAGTGACATACTTTACTATCAAATGGATGGTAGATGCAATTGATCCAACCAGAAAGCA  
AAAAGTAGAAGCTCAGAAACAGGCAGAAAACTAATGAAGCAAATTGGAGTGAAAAATGTGAAGCTCTCA  
GAATATGAAATGAGTATTGCTGCTCATCTTGTAGACCCTTTAATATGCATGTTACTTGGAGTGATATAG  
CAGGTTTATAGATGATGTCATTACGGATCTGAAAGACACAGTCATCTTACCTATCAAAAAGAAACATTTGTT  
TGAGAATCCAGGCTTCTGCAGCCTCCAAAAGGTGTTCTTCTCTATGGCCTCCAGGCTGTGGTAAAACG  
TTGATTGCCAAGGCCACAGCCAAAGAAGCAGGCTGTCGATTTATTAACCTTCAGCCTTCGACACTGACCG  
ATAAGTGGTATGGAGAATCTCAGAAATTGGCTGCTGCTGTCTTCTCCCTTGCCATAAAGTACAACCATC  
CATCATCTTTATAGATGAAATAGACTCCTTTCTACGAAACCGTTCAAGTTCTGACCATGAAGCTACAGCC  
ATGATGAAAGCTCAGTTTATGAGTCTCTGGGATGGATTGGATACTGATCACAGCTGCCAGGTCATAGTAA  
TGGGAGCTACCAATCGTCCTCAGGACCTTGACTCGGCTATAATGAGAAGAATGCCTACAAGATTTTCATAT  
CAACCAGCCTGCTTTAAAACAGAGAGAAGCAATCCTGAAACTCATCTTAAAAATGAAAAATGTGGATAGG  
CATGTAGACCTGCTAGAAGTTGCCAGGAAACTGATGGGTTTTTCAGGAAGTGACCTAAAAGAGATGTGTC  
GAGATGCTGCCCTCCTCTGTGTTAGAGAATATGTTAATTCTACATCAGAAGAAAGCCATGACGAAGATGA  
AATTCGGCCTGTTCAACAGCAGGACCTGCATCGGGCAATTGAAAAGATGAAGAAATCAAAGGATGCAGCA  
TTTCAGAATGTTTTAACACATGTTTGTAGATTAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_032810 unedited
GATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGATGAAATGAGT
ATTGCTGCTCATCTTGTAGACCCCTTAATATGCATGTTACTTGGAGTGATATAGCAGGT
TTAGATGATGTCATTACGGATCTGAAAGACACAGTCATCTTACCTATCAAAAAGAAACAT
TTGTTTGAGAATCCAGGCTTCTGCAGCCTCCAAGGTGTTCTTCTCTATGGGCCTCCAG
GCTGTGGTAAAACGTTGATTGCCAAGGCCACAGCCAAAGAAGCAGGCTGTCGATTATTA
ACCTTCAGCCTTCGACACTGACCGATAAGTGGTATGGAGAATCTCAGAAATGGCTGCTG
CTGCTCTTCCCTTGCCATAAAGCTACAACCATCCATCATCTTTATAGATGAAATAGACT
CCTTTCTACGAAACCGTTCAAGTCTGACCATGAAGCTACAGCCATGATGAAAGCTCAGT
TTATGAGTCTCTGGGATGGATTGGATACTGATCACAGCTGCCAGGTCATAGTAATGGGAG
CTACCAATCGTCCTCAGGACCTTGACTCGGCTATAATGAGAAGAATGCCTACAAGATTC
ATATCAACCAGCCTGCTNTAAAACAGAGAGAAGCAATCCTGAAACTCATCTTGAAAAATG
AAAATGTGGATAGGCATGTAGACCTGCTAGAAGTTGCCCAGGAAACTGATGGGTTTTTCAG
GAAGTGACCTAAAGGATGTGTCGAGATGCTGCCCTCCTCTGCTGTAGAGATATGNTANT
TCTACTCAGAAGAAGCCATGACGAAGATGAAATCGGCCTGTTACAGCAGACCTGCATCG
GGCATTGAAGATGAAGAATCACAGATGCC
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_032810 unedited
TGGACCGCCGCCGAATCTAGAGTCGAGTTTTTTNTTTTTTTTTTTTTTTTTTTTTTTTT
TAAAGAGGGACCCCTTTATTACACATTTATAAAATAATAGAATATAGTTATTAATAATGG
GACACTTTTTTTCATTTTTGGTATCTTGTATTTCAGTTTTTCCATCCTCTTCAACAATCTC
CATAACTTGCTTTTTTGTATCCATTGTTACCTGAAACTTCCACCCACCATTCAAAGTA
CAACTGAAAAATAAACGATCTAACAGATTCTTGTGAAACACATTATCAAATAAATTAATC
CAGTGACACATGAATAAAGATTTAAAGTTTTTAAGAAATACAGTAAAAGCAAAAACATA
TGAAGCATAATTTAATCTGATGATTCAAAGGCACCTCAAGATTGGGTTGGGCCGTTTTTC
CTCATGCTGCGGGGTTAGGGGCCTATAACAAAATTCTGGTTAGTAAAATTTGAAAAAAA
TTCACATATAATTCACATTAACGACTACAGATAGATACAATATGGGCATTTTGTATGTT
ACATTTGTACCTGACTTAGGGCACAATTTATAATAATACTAAGAAAACAAAATTAAT
TATAAAATGAGTATTTTTAGCACACTTAGTAACAGCTACTTGNTTTAAACTATTATTTCA
TTTTTGGTGACCAAATTAATTTGACCATAATTAAGAACACACTACCTTAAAATAATAT
TTAAGAAACATAGTTACAACAGACATGTTACATTAATGAAAAAAGGAAAGAATGTACAT
GTATTAAGGGTACTTGAGGTTTTTCAAACCCATCCTTTTGAAAGCCCTTTAATCCCTT
TCATGTAACCAATTAATTTAAAAAGTTATACTCAAGAGTGAAAATCAGGTTGAGCACAC
TGCTGCCTACCACCTTCAAGCTGATCCTGAACAATATTCATTTGATATCCTGCCAACACA
TATTGAGCCCTGTTTTCGCAAATGAAGGACCC
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Restriction Sites:

NotI-NotI

ACCN:

NM_032810

Insert Size:

2620 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
Components:	<p>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).</p>
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:	NM_032810.1 , NP_116199.1
RefSeq Size:	3034 bp
RefSeq ORF:	456 bp
Locus ID:	84896
UniProt ID:	Q8NBU5
Cytogenetics:	10q23.31
Gene Summary:	<p>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]</p>