

## Product datasheet for **SC313127**

### ATAD1 (AF361493) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATAD1 (AF361493) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATAD1
Synonyms:	AFDC1; FNP001; THORASE
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for AF361493, the custom clone sequence may differ by one or more nucleotides ATGGTACATGCTGAAGCCTTTTCTCGTCCTTTGAGTCGGAATGAAGTTGTTGGTTTAATT TTCCGTTTGACAAATATTTGGTGCAGTGACATACTTTACTATCAAATGGATGGTAGATGCA ATTGATCCAACCAGAAAGCAAAAAGTAGAAGCTCAGAAACAGGCAGAAAACTAATGAAG CAAATTGGAGTGAAAAATGTGAAGCTCTCAGAATATGAAATGAGTATTGCTGCTCATCTT GTAGACCTCTTAATATGCATGTTACTTGGAGTGATATAGCAGGTTTAGATGATGTCATT ACGGATCTGAAAGACACAGTCATCTTACCTATCAAAAAGAAACATTTGTTTGAGAATTCC AGGCTTCTGCAGCCTCCAAAAGGTGTTCTTCTCTATGGGCCTCCAGGCTGTGGTAAAACG TTGATTGCCAAGCCACAGCCAAAGAAGCAGGCTGTCGATTTATTAACCTTCAGCCTAGG ACACTGACCGATAAGTGGTATGGAGAATCTCAGAAATTGGCTGCTGCTGTCTTCTCCCTT GCCATAAAGCTACAACCATCCATCATCTTTATAGATGAAATAGACTCCTTTCTACGAAAC CGTTCAAGTTCTGACCATGAAGCTACAGCCATGATGAAAGCTCAGTTTATGAGTCTCTGG GATGGATTGGATACTGATCACAGCTGCCAGGTCATAGTAATGGGAGCTACCAATCGTCTCT CAGGACCTTGACTCGGCTATAATGAGAAGAATGCCTACAAGATTCATATCAACCCAGCCT GCTTTAAAACAGAGAGAAGCAATCCTGAAACTCATCTTGAAAAATGAAAAATGTGGATAGG CATGTAGACCTGCTAGAAGTTGCCAGGAAACTGATGGGTTTTTCAGGAAGTGACCTAAAA GAGATGTGTCGAGATGCTGCCCTCTGTGTTAGAGAATATGTTAATTCTACATCAGAA GAAAGCCATGACGAAGATGAAATTCGGCCTGTTCAACAGCAGGACCTGCATCGGGCAATT GAAAAGATGAAGAAATCAAAGGATGCAGCATTTTCAAGATGTTTTAACACATGTTTGT GAT
Restriction Sites:	Please inquire
ACCN:	AF361493
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">AF361493.1</a> , <a href="#">AAL57218.1</a>
<b>RefSeq Size:</b>	2956 bp
<b>RefSeq ORF:</b>	1086 bp
<b>Locus ID:</b>	84896
<b>Cytogenetics:</b>	10q23.31
<b>Domains:</b>	AAA, AAA
<b>Gene Summary:</b>	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]