

Product datasheet for **SC124664**

ATAD3B (NM_031921) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATAD3B (NM_031921) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATAD3B
Synonyms:	AAA-TOB3; TOB3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_031921, the custom clone sequence may differ by one or more nucleotides

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ATGTCGTGGCTCTTCGGCGTTAAACAAGGGCCCCAAGGGTGAAGGCGGGGGCCGCCGCCCTTTGCCGC
CCGCGCAGCCCGGGGCCGAGGGCGGGGACCGCGTTTGGGAGACCGCCGCCGCCAAGGACAAATG
GAGCAATTTCGACCCACCGGCTGGAGCGCGCCGCAAGGCGGGCGCGAGCTGGAGCACTCGCGTTAC
GCCAAGGAGGCCCTGAATCTGGCGCAGATGCAGGAGCAGACGCTGCAGTTGGAGCAACAGTCCAAGCTCA
AAGAGTATGAGGCCGCCGTGGAGCAGCTCAAGAGCGAGCAGATCCGGGCGCAGGCTGAGGAGAGGAGGAA
GACCTGAGCGAGGAGACCCGGCAGCACCAGGCCAGGGCCAGTATCAAGACAAGCTGGCCCGCAGCGC
TACGAGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGAAGCAGGAGGAGTCCGTGC
AGAAGCAGGAAGCCATGCGGCGAGCCACCGTGGAGCGGGAGATGGAGCTGCGGCACAAGAATGAGATGCT
GCGAGTGGAGACCGAGGCCCGGGCGCGGCCAAGGCCGAGCGGGAGAATGCAGACATCATCCGCGAGCAG
ATCCGCTGAAGGCGTCCGAGCACCGTCAGACCGTCTTGAGTCCATCAGGACGGCTGGCACCTTGTGTTG
GGGAAGGATTCCGTGCCTTTGTGACAGACCGGGACAAAGTGACAGCCACGGTGGCTGGGCTGACGCTGCT
GGCTGTCGGGGTCTACTCAGCCAAGAATGCGACAGCCGCTCACTGGCCGCTTCATCGAGGCTCGGCTGGGG
AAGCCGTCCTTAGTGAGGAGACGTCCCGCATCACGGTGTGGAGGCGCTGCGGCACCCCATCCAGGTCA
GCCGGCGGCTCCTCAGTCGACCCAGGACGTGTGGAGGGTGTGTGCTTAGTCCAGCCTGGAAGCACG
GGTGCGGACATCGCCATAGCAACCAGGAACACCAAGAAGAACCGGGGCTGTACAGGCACATCTGCTG
TATGGGCCACAGGCACCGGAAGACGCTGTTTGGCAAGAACTCGCCCTGCACTCAGGCATGGACTACG
CCATCATGACAGCGGGGACGTGGCCCCATGGGGCGGAAGCGTGACCGCCATGCACAAGCTCTTTGA
CTGGGCCAATACCAGCCGGCGCGGCTCCTGCTTTCATGGATGAAGCAGACGCTTCTTCGGAAGCGA
GCCATGAGGAGATAAGCAAGGACCTCAGAGCCACACTGAACGCTTCTGTACCATGGGCCAACACA
GCAACAAATTCATGCTGCTGCTGCGCAGCAATCTGCCTGAGCAGTTTCGACTGTGCCATCAACAGCCGAT
TGACGTGATGGTCCACTTCGACCTGCCGAGCAGGAGGAGCGGGAGCGCCTGGTGAGACTGCATTTTGAC
AACTGTGTTCTTAAGCCGGCCACAGAAGGAAAACGGCGCCTGAAGCTGGCCAGTTTGACTACGGGAGGA
AGTGCTCGGAGGTCGCTCGGCTGACGGAGGGCATGTGGGCGGGGAGATCGCTCAGCTGGCCGTGCTCTG
GCAGGCCACGGCATATGCCTCAAGGACGGGTCTCACTGAGGCCATGATGGACGCTGTGTGCAAGAT
GCTGTCCAGCAGTACCGACAGAAGATGCGCTGGCTGAAGGCGGAGGGGCTGGGCGGGGGTCGAGCACC
CCCTATCCGAGTCCAAGGCGAGACCTCACCTCATGGAGCCTGGCCACGGACCCCTCTACCCCTGCCT
TGCCGGCCCTGCACATTTAGGATATGCTCCTGGATGGGACTGGGCTGTGCCAGGGCCTCTGTCCCC
AGGATGTCTTGTGGTGGCGGTGCGCCGTTCTGCCCCCAGGGCACCCCTGTTGTAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031921 unedited

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NGGTTAGATTTTGTATACGACNACTATAGGGCGGCCGCGAATTCGCACCAGGCGGCGCT
GGAGGCTGCTCCAGCCGCGCCGAGTCAGACTCGGGTGGGGTCCCGCGCGGTAGCG
GCGGCGGCGGTGCGAGCATGTCTGGCTTTCGGCGTTAAACAAGGCCCAAGGGTGAAG
GCGCGGGGCCGCGCGCCTTTGCCGCCGCGCAGCCGGGGCCGAGGGCGGCGGGACC
GCGGTTTGGGAGACCGCGCGGCCCAAGGACAAATGGAGCAACTTCGACCCACCGGCC
TGGAGCGCGCCCAAGGCGGCGCGAGCTGGAGCACTCGCGTTACGCCAAGGAGGCC
TGAATCTGGCGCAGATGCAGGAGCAGACGCTGCAGTTGGAGCAACAGTCCAAGCTCAAAG
AGTATGAGGCCCGCTGGAGCAGCTCAAGAGCGAGCAGATCCGGGCGCAGGCTGAGGAGA
GGAGGAAGACCCTGAGCGAGGAGACCCGGCAGCACCAGGCCAGGGCCAGTATCAAGACA
AGCTGGCCCGGCGAGCTACGAGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGA
ATTTACGGAAGCAGGGAGAGTCCGTGCANAACAGGAAGCCATGCGGCGAGCCACCGTGG
AGCGGGAGATGGAGCTGCGGCACAAGAATGAAATGCTGCGAGGGGAGACCGAGGCCGGC
GCGCCCCCAGGCCGACCGGAAATGCCAACATCATCCGCGAGCATACCGCTGGAGGCGT
CCGACCCCGTCAAGACGTCTGGGAGCCATCAGGACGCTGCACCTTGTGGGGGAAGGA
TCCGGCCTTGGGACGACCGGACAAGTGACCCCGGTGGCTGGCTGACCTGCTGGTTN

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Restriction Sites: NotI-NotI

ACCN:	NM_031921
Insert Size:	2550 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
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:	<u>NM_031921.3</u> , <u>NP_114127.2</u>
RefSeq Size:	2466 bp
RefSeq ORF:	2466 bp
Locus ID:	83858
UniProt ID:	<u>Q5T9A4</u>
Cytogenetics:	1p36.33
Gene Summary:	The protein encoded by this gene is localized to the mitochondrial inner membrane, where it can bind to a highly-related protein, ATAD3A. ATAD3A appears to interact with matrix nucleoid complexes, and the encoded protein negatively regulates that interaction. This gene is expressed almost exclusively in pluripotent embryonic stem cells and some cancer cells. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015] Transcript Variant: This variant (1) encodes the longer isoform (AAA-TOB3I).