

## Product datasheet for **SC123746**

### ATAD2 (BC007123) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATAD2 (BC007123) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATAD2
Synonyms:	ANCCA; CT137; PRO2000
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for BC007123 edited  
GATCTCTCTCCGGTCGCGCACGCCGAGGCCAGTAGGGAGAGAAGATGGTGGTTCTCCGCA  
GCAGCTTGGAGCTGCACAACCACTCCGCGGCTCGGCCACGGGCTCCTTGGACCTGCCA  
GTGACTTCTCAGTCTGGAGCACATCGGCCGGAGGCGGCTCCGCTCGGCCGGCGCGCGC  
AGAAGAAACCCGCGCGACCCACAGCCAAAGCGGGCGATGGGTCATCAGTTAAGGAAGTTG  
AAACCTACCACCGGACACGTGCTTTAAGATCTTTGAGAAAAGATGCACAGAATTCTTCAG  
ATTCTAGTTTTGAGAAGAATGTGGAAATAACGGAGCAACTTGCTAATGGCAGGCATTTTA  
CAAGGCAGTTGGCCAGACAGCAGGCTGATAAAAAAAGAAGAGCACAGAGAAGACAAAG  
TGATTCCAGTTACTCGGTCAATTGAGGGCTAGAAACATCGTTCAAAGTACAGAACAATTAC  
ATGAAGATAATGGTGATGTTGAAGTGCCTCGAAGTTGTAGGATTAGAAGTCGTTATAGTG  
GTGTAACCAGTCCATGCTGTTTGACAACTTATAACTAACACTGCTGAAGCTGACTTTC  
AAAAATGGATGACATGAAGAAGATGCGTAGACAGCGAATGAGAGAACTTGAAGACTTGG  
GAGTGTTAATGAAACAGAAAGAAAGCAATCTTAATATGTACACAAGAGGAAAACGAAAAG  
ATATTCAAAGAAGTGAAGAAACAAGTATAATCAAGAAGGCAGTGTGGAGTCATCTG  
AAGAGGGTGAAGACCAAGAACATGAAGATGATGGTGAAGATGAAGATGATGAAGATGATG  
ATGATGATGACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG  
GAGAAGAAGAGAATCAGAAGCGATATTATCTTAGACAGAGAAAAGCTACTGTTTACTATC  
AGGCTCCATTGGAAAAACCTCGTCACCAGAGAAAAGCCCAACATATTTTATAGTGGCCAG  
CTTCTCCTGCAAGACCAAGATACCGATTATCTTCCGACAGCAAGAAAGTCCCTTACTGTA  
AACGAATGAACAGGCGAAGGCATGCAATCCACAGTAGTGACTCGACTTCACTTCCCTCCT  
CTGAAGATGAACAGCACTTTGAGAGGCGGAGGAAAAGGAGTCGTAATAGGGCTATCAATA  
GGTGCCTCCCACTAAATTTTCGGAAGATGAATTAAGGCAATTTATAAAGATCGAATGA  
AAATTGGAGCAAGCCTTGCCGATGTTGATCCAATGCAACTAGATTCTTCAGTACGATTTG  
ATAGTGTGGTGGCCTGTCTAATCATATAGCAGCTCTAAAAGAGATGGTGGTGTTCAT  
TACTTTATCCAGAAGTCTTTGAAAAATTTAAAATTCACCCCCAAGAGGTTGTTTGT  
ATGGGCCACCTGAACTGAAAGACTCTGGTTGCCAGAGCACTTGCCAATGAGTGCAGTC  
AAGGGGATAAAAGAGTAGCATTTTTTCATGAGGAAAGGTGCTGATTGTCTAAGTAAATGGG



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TAGGAGAATCTGAAAGACAGCTACGATTGCTGTTTGATCAGGCCTATCAGATGCGCCCAT  
 CAATTATTTTTTTGACGAAATTGATGGTCTGGCTCCAGTACGGTCAAGCAGGCAAGATC  
 AGATTCACAGTCTATTGTTTCCACCCTGCTAGCTCTTATGGATGGATTGGACAGCAGAG  
 GGGAAATTGTGGTCATTGGTGCTACGAACAGGCTAGATTCTATAGATCCTGCTTTACGAA  
 GGCCTGGTCGCTTTGATAGAGAATTCCTCTTTAGCCTGCCTGATAAAGAGGCTCGAAAAG  
 AGATTCTAAAGATTACACCAGGGATTGGAATCCCAAACCACTGGACACATTTTTAGAAG  
 AGCTAGCAGAAAACCTGTGTTGGATACTGTGGAGCAGATATTAATCAATATGTGCTGAAG  
 CTGCTTTATGTGCTTTACGACGACGCTACCCACAGATCTATACCACTAGTGAGAAAAGTGC  
 AGTTGGATCTCTCTTCAATTAATATCTCAGCTAAGGATTTTCGAGGTAGCTATGCAAAAAGA  
 TGATACCAGCCTCCCAAAGAGCTGTGACATCACCTGGGCAGGCACTGTCCACCCTGTGGA  
 AACCACTCTGCAAAAACACTGTTGACAAGATTTTGAAGCCCTGCAGAGAGTATTTCCAC  
 ATGCAGAATTCAGAACAAATAAAACATTAGACTCAGATATTTCTTGTCTCTGCTAGAAA  
 GTGACTTGGCTTACAGTGATGATGATGTTCCATCAGTTTATGAAAATGGACTTTCTCAGA  
 AATCTTCTCATAAGGCAAAAAGACAATTTTAAATTTTCTTCAATTTGAATAGAAATGCTTGT  
 ACCAACCTATGTCTTTTCGACCAAGAATATTGATAGTAGGAGAACCAGGATTTGGGCAAG  
 GTTCTCACTTGGCACCAGCTGTCATTCATGCTTTGGAAAAGTTTACTGTATATACATTAG  
 ACATTCCTGTTCTTTTTGGAGTTAGTACTACATCCCCTGAAGAAAACATGTGCCACAGTGA  
 TTCGTGAAGCTAAGAGAACAGCACCAAGTATAGTGATGTTTCTCATATCCACGTGTGGT  
 GGGAAATAGTTGGACCGACACTTAAAGCCACATTTACCACATTATTACAGAATATTCCTT  
 CATTTGCTCCAGTTTTACTACTTGAACCTTCTGACAAAACCCATTCGGCTTTGCCAGAAG  
 AGGTAATTTATGTGGGGCGGTATCATTACTTTCAAAAAGAGTTGTTTCTACCACAATA  
 ATCATAACTTATTGAAAAATTCAAATGCTGTAGAAGTGAATAAAAGGATAAGTTTTCTT  
 ATCAAATATACCAATTGGTAACTATTTGGTATATGTGCTCATTGGGCAAGATGGTATATGT  
 ATATGTGTATGTATATATTAAGGATACATAAAATTTTTCTTGGAAAATGGTATTATAT  
 GCCGGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGTGGAT  
 CATGAGGTGAGGAGATTGAGACCATCTGGCTAGCAGGGTGAACCCCTGTCCCTACTAAA  
 AATACAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for BC007123 unedited  
 AGGTCAAATTTGTATACGACTCACTATAGGCGGCCGCGNATTCANATCTGGTACCGGTC  
 CGGAATCCCGGATATGTCGACCCACGCGTCCGGATCTCTCTCCGGTCGCGCACGCCG  
 AGGCCAGTAGGGAGAGAAGATGGTGGTTCTCCGACGAGCTTGGAGCTGCACAACCACTC  
 CGCGCCCTCGGCCACGGGCTCCTTGGACCTGTCCAGTGACTTCTCAGTCTGGAGCACAT  
 CGGCCGGAGGGGCTCCGCTCGGCCGGCGGCGCAGAAGAAACCGCGGCGACCACAGC  
 CAAAGCGGGCGATGGTTCATCAGTTAAGGAAGTTGAAACCTACCACCGGACAGTCTTT  
 AAGATCTTTGAGAAAAGATGCACAGAATCTTCAGATTCTAGTTTGGAGAAGATGTGGA  
 AATAACGGAGCAACTTGCTAATGGCAGGCATTTACAAGGCAGTTGGCCAGACAGCAGGC  
 TGATAAAAAAAGAAGAGCACAGAGAAGACAAAGTGATTCAGTTACTCGGTCATTGAG  
 GGCTAGAAAACATCGTTCAAAGTACAGAACCTTACATGAAGATAATGGTGTGTTGAAAT  
 GCGTCAAGTTGTAGGATTAGAAGTCGTTATAGTGGTGTAAACCAGTCCATGCTGTTTGA  
 CAACTTATAACTAACACTGCTGAAGCTGTACTTCAAAAATGGATGACATGAAGAAGAT  
 GCGTAGACAGCGAATGAGAGAATTGAAGACTTGGGAGTGTAAATGAAACAGAGAANA  
 GCATCTTAATATGTACACAAGAAGAAAACAGAAAGATTCANAGAACTGATGAAGAAA  
 CACTGATAATCAAGAAGGCAGTGTGGAGTCATCTGAAGAGGGTGAAGACCAAGACATGAA  
 GATGATGGTGAAGATGAA

**Restriction Sites:**

Please inquire

**ACCN:**

BC007123

**Insert Size:**

3140 bp

<b>OTI Disclaimer:</b>	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).
<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="#">BC007123.1</a>
<b>RefSeq Size:</b>	3140 bp
<b>Locus ID:</b>	29028
<b>Cytogenetics:</b>	8q24.13
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	A large family of ATPases has been described, whose key feature is that they share a conserved region of about 220 amino acids that contains an ATP-binding site. The proteins that belong to this family either contain one or two AAA (ATPases Associated with diverse cellular Activities) domains. AAA family proteins often perform chaperone-like functions that assist in the assembly, operation, or disassembly of protein complexes. The protein encoded by this gene contains two AAA domains, as well as a bromodomain. [provided by RefSeq, Jul 2008]