

## Product datasheet for **SC123816**

### Adenosine A3 Receptor (ADORA3) (BC029831) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine A3 Receptor (ADORA3) (BC029831) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adenosine A3 Receptor
Synonyms:	A3AR; AD026; adenosine A3 receptor; bA552M11.5; OTTHUMP00000013476; OTTHUMP00000013739; OTTHUMP000000082917; RP11-552M11.7
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for BC029831 edited  
 GGAACCTAAGAGCAGCAGCACTTTTCAGATTCAGTCCATATAGAGCTGTCCTACAGCATTCT  
 GGAAACTTGAGGATGTGCGGTGCATAAAGGGGCTGGAAGTGACCCACCTGTGATGAGCCC  
 TTTCTAAGGAGAAGGGTTTCCAAGAGATCACCCACCAGAAAAGGTAGGAATGAGCAAG  
 TTGGGAATTTTAGACTGTCACTGCACATGGACCTCTGGGAAGACGTCTGGCGAGAGCTAG  
 GCCCACTGGCCCTACAGACGGACTTGTGGCTCACCTGTCCCTGTGGAGGTTCCCTGG  
 GAAGGCAAGATGCCCAACAACAGCACTGTCTGTCATTGGCCAATGTTACCTACATCACC  
 ATGGAAAATTTTCATTGGACTCTGCGCCATAGTGGGCAACGTGCTGGTCATCTGCGTGGTC  
 AAGCTGAACCCAGCCTGCAGACCACCCTTCTATTTTCATTGTCTCTAGCCCTGGCT  
 GACATTGCTGTTGGGGTCTGGTCATGCCTTTGGCCATTGTTGTCAGCCTGGGCATCACA  
 ATCCACTTCTACAGCTGCCTTTTATGACTTGCCTACTGCTTATCTTTACCCACGCCTCC  
 ATCATGTCCTTGTGGCCATCGCTGTGGACCGATACTTGCGGGTCAAGCTTACCGTCAGA  
 TACAAGAGGGTCACCACTCACAGAAGAATATGGCTGGCCCTGGGCCTTTGCTGGTGGTG  
 TCATTCTGGTGGGATTGACCCCATGTTTGGCTGGAACATGAACTGACCTCAGAGTAC  
 CACAGAAATGTCACCTTCTTTTCATGCCAATTTGTTTCCGTGATGAGAATGGACTACATG  
 GTATACTTCAGCTTCTCACCTGGATTTTCATCCCCTGGTTGTCATGTGCGCCATCTAT  
 CTTGACATCTTTTACATATTCCGAACAAACTCAGTCTGAACTTATCTAACTCCAAGAG  
 ACAGGTGCATTTTATGGACGGGAGTTCAAGACGGCTAAGTCTTGTCTGGTCTTTTC  
 TTGTTTGTCTGTGATGGCTGCCTTTATCTATCATCAACTGCATCATCTACTTTAATGGT  
 GAGGTACCACAGCTTGTGCTGTACATGGGCATCCTGCTGTCCCATGCCAACTCCATGATG  
 AACCTATCGTCTATGCCTATAAAATAAAGAAGTTCAAGGAAACCTACCTCTTGATCCTC  
 AAAGCCTGTGGTCTGCCATCCCTCTGATTCTTTGGACACAAGCATTGAGAAGAATTCT  
 GAGTAGTTATCCATCAGAGATGACTCTGTCTCATTGACCTCAGATTCCCATCAACAAA  
 CACTTGAGGGCCTGTATGCCTGGCCCAAGGGATTTTACATCCTTGATTACTTCCACTGA  
 GGTGGGAGCATCTCCAGTCTCCCAATTATATCTCCCCACTCCACTACTCTCTTCCCTC  
 CACTTCATTTTTCTTTGCTCTTCTCTAATTCAAGTGTGTTGGAGGCCTGACTTGGGG  
 ACAACGTATTATTGATATTATTGTCTGTTTTCTTCTTCCCAATAGAAGAATAAGTCATG  
 GAGCCTGAAGGGTGCCTAGTTGACTTACTGACAAAAGGCTCTAGTTGGGCTGAACATGTG  
 TGTGGTGGTGACTCATTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGG  
 ATGCCTAGAAGATGTTGGGAACAGAAGAAATAAACTGAGTTTAAAGGGGACTTAACTGC  
 TGAAATCACCTGTGGATGTTTTGAGTAAATAAAAGCTAATAGCTAAAAAAAAAAAAAA  
 AAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for BC029831 unedited  
 GGTGNNATTTGTATACGACTACTATAGGCGGCCAGTGTGATGGATATCTGCAGAA  
 TTCGGCTTGATCAGGCAAGATGCCCAACAACAGCACTGCTCTGTCATTGGCCAATGTTAC  
 CTACATCACCATGGAAATTTTCATTGGACTCTGCGCCATAGTGGGCAACGTGCTGGTCAT  
 CTGCGTGGTCAAGCTGAACCCAGCCTGCAGACCACCCTTCTATTTTCATTGTCTCTCT  
 AGCCCTGGCTGACATTGCTGTTGGGGTCTGGTCATGCCTTTGGCCATTGTTGTCAGCCT  
 GGGCATCACAATCCACTTCTACAGCTGCCTTTTATGACTTGCCTACTGCTTATCTTTAC  
 CCACGCCCTCCATCATGTCCTTGTGGCCATCGCTGTGGACCGATACTTGCGGGTCAAGCT  
 TACCGTACAGATAAAGAGGGTCACCACTCACAGAAGAATATGGCTGGCCCTGGGCCTTTG  
 CTGGCTGGTGTCACTTCTGGTGGGATTGACCCCATGTTTGGCTGGAACATGAACTGAC  
 CTCAGAGTACCACAGAAATGTCACCTTCTTTTCATGCCAATTTGTTTCCGTGATGAGAAT  
 GGACTACATGGTATACTTCAGCTTCTCACCTGGATTTTCATCCCCTGGTTGTCATGTG  
 CGCCATCTATCTTACATCTTTTACATATTCCGAACAAACTCAGTCTGAACTTATCTAA  
 CTCCAAAGAGACAGGTGCATTTTATGGACGGGAGTTCAAGACGGCTAAAGCCTTGTCTCT  
 GGTNTCTTNTCTGNTTGTCTGTGATGGCTGGCTTTATCTTCAAACTGGATCATCTA  
 CTTTAAAGGGGAGGTACACAGCTTGTGCTGGACATGGGCATCCCCTGTCCATGCCAACT  
 CCTGAGGAACCTACGGCTTTGCCTAAA

**Restriction Sites:** Please inquire

<b>ACCN:</b>	BC029831
<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>	<u><a href="#">BC029831.1</a></u> , <u><a href="#">AAH29831.1</a></u>
<b>RefSeq Size:</b>	1812 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	140
<b>Cytogenetics:</b>	1p13.2
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	This gene encodes a protein that belongs to the family of adenosine receptors, which are G-protein-coupled receptors that are involved in a variety of intracellular signaling pathways and physiological functions. The receptor encoded by this gene mediates a sustained cardioprotective function during cardiac ischemia, it is involved in the inhibition of neutrophil degranulation in neutrophil-mediated tissue injury, it has been implicated in both neuroprotective and neurodegenerative effects, and it may also mediate both cell proliferation and cell death. Alternative splicing results in multiple transcript variants. This gene shares its 5' terminal exon with some transcripts from overlapping GeneID:57413, which encodes an immunoglobulin domain-containing protein. [provided by RefSeq, Nov 2014]