

## Product datasheet for SC119759

### Adenosine A3 Receptor (ADORA3) (NM\_000677) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine A3 Receptor (ADORA3) (NM_000677) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adenosine A3 Receptor
Synonyms:	A3AR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000677, RT-PCR generated  
 ATGCCCAACAACAGCACTGCTCTGTCATTGGCCAATGTTACCTACATCACCATGGA AATT  
 TTCATTGGACTCTGCCCATAGTGGGCAACGTGCTGGTCATCTGCGTGGTCAAGCTGAAC  
 CCCAGCCTGCAGACCACACCTTCTATTTTCATTGTCTCTTAGCCCTGGCTGACATTGCT  
 GTTGGGGTGTGGTCATGCCTTTGGCCATTGTTGTGAGCCTGGGCATCACAATCCACTTC  
 TACAGCTGCCTTTTTATGACTTGCCACTGCTTATCTTTACCCACGCCTCCATCATGTCC  
 TTGCTGGCCATCGCTGTGGACCGATACTTGC GGGTCAAGCTTACCGTCAGATAACAAGAGG  
 GTCACCACTCACAGAAGAATATGGCTGGCCCTGGGCCTTTGCTGGCTGGTGTATTCTCTG  
 GTGGGATTGACCCCATGTTTGGCTGGAACATGAAACTGACCTCAGAGTACCACAGA AAT  
 GTCACCTTCTTTTCATGCCAATTTGTTTCCGTCATGAGAATGGACTACATGGTATACTTC  
 AGCTTCCTCACCTGGATTTTCATCCCCCTGGTTGTCATGTGCGCCATCTATCTTGACATC  
 TTTTACATCATTGGAACAAACTCAGTCTGAACTTATCTAACTCCAAGAGACAGGTGCA  
 TTTTATGGACGGGAGTTCAAGACGGCTAAGTCCTTGTCTGTTCTTTTCTTGTGGT  
 CTGTATGGCTGCCTTTATCTATCATCAACTGCATCATCTACTTTAATGGTGAGGTACCA  
 CAGCTTGTGCTGTACATGGGCATCTGCTGTCCCATGCCAACTCCATGATGAACCCATC  
 GTCTATGCCTATAAAATAAAGAAGTTCAAGGAAACCTACCTTTTGATCCTCAAAGCCTGT  
 GTGGTCTGCCATCCCTCTGATTCTTTGGACACAAGCATTGAGAAGAATTCTGAGTAG



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000677 unedited TCCACAGTCTTGTAACTCTAACTTGTGTGCGGCCACGCCATGTGATGGAATCTGCAG AATTTGGCTTGATCAGGCAAGATGCCCAACAACAGCACTGCTCTGTCATTGGCCAATGTT ACCTACATCCCATGGAATTTTCATTGGACTCTGCGCCATAGTGGGCAACGTGCTGGTC ATCTGCGTGGTCAAGCTGAACCCAGCCTGCATACCACCACCTTCTATTTTCATTGTCTCT CTAGCCCTGGCTGACATTGCTGTTGGGGTGTGGTCATGCCTTTGGCCATTGTTGTCAGC CTGGGCATCACAATCCACTTCTACAGCTGCCTTTTTATGACTTGCCTACTGCTTATCTTT ACCCACGCCTCCATCATGTCTTGGCTGGCCATCGCTGTGGACCGATACTTGCGGGTCAAG CTTACCCTCAGATACAAGAGGGTCACCACTCACAGAAGAATATGGCTGGCCCTGGGCCTT TGCTGGCTGGTGTATTCTGGTGGGATTGACCCCATGTTTGGCTGGAACATGAAACTG ACCTCAGAGTACCACAGAAATGTCACCTTCCTTTCATGCCAATTTGTTTCCGTCATGAGA ATGGACTACATGGTATACTTCAGCTTCTCACCTGGATTTTCATCCCCTGGTTGTCATG TGCGCCATCTATCTTGACATCTTTACATCATTGGGACAAACTCAGTCTGAACTATCC TACTCAAAGAGACAGGTGCATTTTATGGACGGGAGTTCAAGACGGCCTAGTCCCTGTTN CTGGGTTCTTTCTGGTTGCTCCGGCAGGGCTGCCTTTATCTATCATCAACTGGCTCAT CTACTTTAATGGTGAGGTACCACAGCTTGTGCTGTACATGGGCATCCTGTTGCCATGG CAACTCCATGATGAACCTATCGCTAGCCTATAC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000677
<b>Insert Size:</b>	2300 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="#">NM_000677.2</a> , <a href="#">NP_000668.1</a>
<b>RefSeq Size:</b>	2241 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	140
<b>UniProt ID:</b>	<a href="#">P33765</a>
<b>Cytogenetics:</b>	1p13.2
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction

**Gene Summary:**

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 GenID:57413, which encodes an immunoglobulin domain-containing protein. [provided by RefSeq, Nov 2014]

Transcript Variant: This variant (A) encodes the longest isoform (A). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.