

Product datasheet for **SC334162**

Adenosine A3 Receptor (ADORA3) (NM_001302679) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine A3 Receptor (ADORA3) (NM_001302679) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adenosine A3 Receptor
Synonyms:	A3AR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001302679, the custom clone sequence may differ by one or more nucleotides

ATGTTTGCTGGAACATGAACTGACCTCAGAGTACCACAGAAATGTCACCTTCCTTTCATGCCAATTTG
 TTTCCGTCATGAGAATGGACTACATGGTATACTTCAGCTTCCTCACCTGGATTTTCATCCCCCTGGTTGT
 CATGTGCGCCATCTATCTTGACATCTTTTACATCATTCGGAACAACTCAGTCTGAACTTATCTAACTCC
 AAAGAGACAGGTGCATTTTATGGACGGGAGTTCAAGACGGCTAAGTCCTTGTCTGTTCTTTCTTGT
 TTGCTCTGTCATGGCTGCCTTTATCTATCATCACTGCATCATCTACTTTAATGGTGAGGTACCACAGCT
 TGTGCTGTACATGGGCATCCTGCTGTCCCATGCCAACTCCATGATGAACCCTATCGTCTATGCCTATAAA
 ATAAAGAAGTTCAAGAAACCTACCTTTTGATCCTCAAAGCTTGTGTGGTCTGCCATCCCTCTGATTCTT
 TGGACACAAGCATTGAGAAGAATTCTGAGTAG

Restriction Sites:	SgfI-MluI
ACCN:	NM_001302679
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).
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).


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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001302679.1](#), [NP_001289608.1](#)

RefSeq Size: 1767 bp

RefSeq ORF: 522 bp

Locus ID: 140

Cytogenetics: 1p13.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: 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 GeneID:57413, which encodes an immunoglobulin domain-containing protein. [provided by RefSeq, Nov 2014]
Transcript Variant: This variant (C) uses an alternate splice site in the 5' terminal exon, and it thus differs in its 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant A. The encoded isoform (C) is shorter at the N-terminus, compared to 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.