

Product datasheet for SC119756

Adenosine A1 Receptor (ADORA1) (NM_000674) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine A1 Receptor (ADORA1) (NM_000674) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adenosine A1 Receptor
Synonyms:	RDC7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119756 sequence for NM_000674 edited (data generated by NextGen Sequencing)

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ATGCCGCCCTCCATCTCAGCTTTCCAGGCCGCTACATCGGCATCGAGGTGCTCATCGCC
CTGGTCTCTGTGCCCGGAACGTGCTGGTGATCTGGGCGGTGAAGGTGAACCAGGCGCTG
CGGGATGCCACCTTCTGCTTCATCGTGTGCTGGCGGTGGCTGATGTGGCCGTGGGTGCC
CTGGTCATCCCCCTCGCCATCCTCATCAACATTGGGCCACAGACCTACTCCACACCTGC
CTCATGGTTGCCTGTCCGGTCTCATCCTCACCCAGAGCTCCATCCTGGCCCTGCTGGCA
ATTGCTGTGGACCGCTACCTCCGGTCAAGATCCCTCTCCGGTACAAGATGGTGGTGACC
CCCCGGAGGGCGGCGGTGGCCATAGCCGGCTGCTGGATCCTCTCCTTCGTGGTGGGACTG
ACCCCTATGTTTGGCTGGAACAATCTGAGTGCGGTGGAGCGGGCCTGGGCAGCCAACGGC
AGCATGGGGGAGCCCGTGATCAAGTGCGAGTTCGAGAAGGTCATCAGCATGGAGTACATG
GTCTACTTCAACTTCTTTGTGTGGGTGCTGCCCCGCTTCTCCTCATGGTCTCATCTAC
CTGGAGGTCTTCTACCTAATCCGCAAGCAGCTCAACAAGAAGGTGTGGCCTCCTCCGGC
GACCCGCAAGAAGTACTATGGGAAGGAGCTGAAGATCGCCAAGTCGCTGGCCCTCATCCTC
TTCTCTTTGCCCTCAGCTGGCTGCCTTTGCACATCCTCAACTGCATCACCCTCTTCTGC
CCGTCTGCCACAAGCCAGCATCCTTACCTACATTGCCATCTTCTCAGCACGGCAAC
TCGGCCATGAACCCATTGTCTATGCCTTCCGCATCCAGAAGTCCGCGTCACCTTCCTT
AAGATTTGGAATGACCATTTCCGCTGCCAGCCTGCACCTCCCATTGACGAGGATCTCCA
GAAGAGAGGCCTGATGACTAG

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Clone variation with respect to NM_000674.2



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000674 unedited
 GGGGTGGGGGGNNNGNTATTNNNNNNNNGCGTTCAGAATTGTATACGACTCATATAGG
 CGGCCCGGAAATTCGCACGAGGCCCTACCGCGCGGNCCCGACTCTGTTCCCTGGAAC
 TTTGGGCACTGCCTCTGGGACCCTGCCGGCCAGCAGGCAGGATGGTGTCTGCCTCGTGC
 CCCTTGGTGCCCGTCTGTGTATGTGCCAGCCTGTGCCGCCATGCCGCCCTCCATCTCA
 GCTTTCAGGCCCGCTACATCGGCATCGAGGTGCTCATCGCCCTGGTCTCTGTGCCCGGG
 AACGTGCTGGTGATCTGGGCGGTGAAGGTGAACCAGGCGCTGCCGGATGCCACCTTCTGC
 TTCATCGTGTGCTGGCGGTGGCTGATGTGGCCGTGGGTGCCCTGGTTCATCCCCCTCGCC
 ATCCTCATCAACATTGGGCCACAGACCTACTTCCACACCTGCCTCATGGTTGCCTGTCCG
 GTCCTCATCTCACCCAGAGCTCCATCCTGGCCCTGTGGCAATTGCTGTGGACCCTAC
 CTCCGGGTCAAGATCCCTCTCCGGTACAAGATGGTGGTACCCCCGGAGGGCGGGT
 GCCATAGCCGGTGTGGATCCTCTCCTCGTGGTGGACTGACCCCTATGTTTGGCTGG
 AACAACTGAGTGCAGTGGAGCGGGCTGGGCAGCCAACGGCAGCATGGGGAGCCCGT
 ATCAAGTGCAGTTCGAGAAGGTATCAGCATGGAGTACATGGTCTACTTCAACTCTTT
 GTGTGGGTGCTGCCCCGCTTCTCCTCATGGTCTCATCTACCTGGNAGTCTTCTACCTA
 ATCCGCAAGCAGCTCAACAGAAAGTGTNCGNCTNCTNCGCGACCCGAGAACTACTATG
 GGAAGGAGNNCTGAGATCGCAGTCGCTGGCCCTCATNCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000674 unedited
 GGTGGGGTGTAAAGTAAATTAATAAAGCGTGGGCGNTAAACCTATTTCTGGGCCTCCTTG
 GGCACCAGGCACCCCATTTCCAACATAGGAAGGGCTTGAAGCAAGTCTGGAGTTGACA
 CTCATGTTTCAAAGGTCAACTCGACGGCCACCTCCCTCCCTCGCCCCCGCACAGGGGC
 TCCAGGATCCCCGCCTCGCCCTCCACACAGGGGCTCCAGGCTCCCCCGCTCGCCCTC
 CCACACAGGGGCTCCAGGCTCCCCACCTTGCCCCCAACACAGGGGCTCCAGGCTTGGC
 AGGGCATGGGTTGGTCTTCCCCAGATCCCTAAAGTCTAGACCCCGGACACCTGCAAC
 AGAGCTTCCAAAGCCCCTGAAAACCCAGCCAGATACTAGGGGTATTGAGGGATTACATG
 ACAGCAAGGCCTTCCCCACATGCTCTCAGGGGGTACTCTCCTCTGCCTGCTGCAGCCT
 GCTAAACCCACCCAGGGGCGCTACAGTCAACACTGAGTCTTACAGACACTCCCTCGT
 CCACCCGTTCCAGGCAGGCAGAAATGCTCCCGAGTTGGCATGTCTAGTGTCTCCTCTC
 CATCAGGCCAGAAAGCAGCAGAGATGGGGTACCTAGGACAGTCCAGGCCCGCAACGGG
 CAGGCCAGTGGAGCTGGTGGCCAGATGACAGGTAATTACTCCAGGCTCCTCCCCGGA
 AAGCTCAGGGCAAGAAGGAGGGCTCAGAGCTACCACCTCGTGTCTGGTTGAGGCCAGCAC
 CTACCGCACCAAGCTCACTTCCCAGGGCGTGGAGCCAGCCCTTACGAAATTTGAAATG
 ATTACTGAACCTACCCTTCTGGCTTCCACGTACATTCTGGCTGGCCAGGGCAAGAG
 AGCAGGCACCCTACACCTGGTATGGCCTGGG

Restriction Sites:

Please inquire

ACCN:

NM_000674

Insert Size:

2750 bp

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).

Reconstitution Method:	<ol style="list-style-type: none">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:	NM_000674.1 , NP_000665.1
RefSeq Size:	2900 bp
RefSeq ORF:	981 bp
Locus ID:	134
UniProt ID:	P30542
Cytogenetics:	1q32.1
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>The protein encoded by this gene is an adenosine receptor that belongs to the G-protein coupled receptor 1 family. There are 3 types of adenosine receptors, each with a specific pattern of ligand binding and tissue distribution, and together they regulate a diverse set of physiologic functions. The type A1 receptors inhibit adenylyl cyclase, and play a role in the fertilization process. Animal studies also suggest a role for A1 receptors in kidney function and ethanol intoxication. Transcript variants with alternative splicing in the 5' UTR have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>