

Product datasheet for SC315420

Adenosine A1 Receptor (ADORA1) (NM_001048230) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine A1 Receptor (ADORA1) (NM_001048230) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adenosine A1 Receptor
Synonyms:	RDC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315420 representing NM_001048230. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCGCCCTCCATCTCAGCTTTCCAGGCCGCTACATCGGCATCGAGGTGCTCATCGCCCTGGTCTCT
GTGCCCCGGAACGTGCTGGTGATCTGGCGGTGAAGGTGAACAGGCGCTGCGGGATTCCACCTTCTGC
TTCATCGTGCCGCTGGCGGTGGCTGATGTGGCGGTGGGTGCCCTGGTCACTCCCTCGCCATCCTCATC
AACATTGGGCCACAGACCTACTCCACACCTGCCTCATGGTTGCCTGTCCGGTCTCATCCTCAGCCAG
AGCTCCATCCTGGCCCTGCTGGCAATTGCTGTGGACCACTACCTCCGGTCAAGATCCCTCTCCGGTAC
AAGATGGTGGTGACCCCCGGAGGGCGGCGGTGGCCATAGCCGGCTGCTGGATCCTCTCCTTCGTGGTG
GGACTGACCCCTATGTTTGGCTGGAACAATCTGAGTGCGGTGGAGCGGGCTGGGCAGCCAACGGCAGC
ATGGGGGAGCCCCGTGATCAAGTGCAGTTCGAGAAGGTATCAGCATGGAGTACATGGTCTACTTCAAC
TTCTTTGTGTGGGTGCTGCCCCGCTTCTCCTCATGGTCTCATCTACCTGGAGGTCTTCTACCTAATC
CGCAAGCAGCTCAACAAGAAGGTGTGCGCCTCCTCCGGCGACCCGAGAAGTACTATGGGAAGGAGCTG
AAGATCGCCAAGTCGCTGGCCCTCATCTCTTCTCTTTGCCCTCAGCTGGTGCCTTTGCACATCCTC
AACTGCATCACCCTCTTCTGCCAGTCTGCCACAAGCCAGCATCCTTACCTACATTGCCATCTTCTC
ACGCACGGCAACTCGGCCATGAACCCATTGTCTATGCCTTCCGCATCCAGAAGTCCGCGTCACCTTC
CTTAAGATTTGGAATGACCATTTCCGCTGCCAGCCTGCACCTCCATTGACGAGGATCTCCAGAAGAG
AGGCCTGATGACTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001048230
Insert Size:	981 bp


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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

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_001048230.1](#)

RefSeq Size: 2782 bp

RefSeq ORF: 981 bp

Locus ID: 134

UniProt ID: [P30542](#)

Cytogenetics: 1q32.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 36.5 kDa

Gene Summary:

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]

Transcript Variant: This variant (2) is missing one of the 5' non-coding exons, and thus has a shorter 5' UTR compared to transcript variant 1. Both variants encode the same protein.

Product images:


Circular map for SC315420