

## Product datasheet for RC222013

### Adenosine A1 Receptor (ADORA1) (NM\_000674) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine A1 Receptor (ADORA1) (NM_000674) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adenosine A1 Receptor
Synonyms:	RDC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222013 representing NM_000674 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGCCCTCCATCTCAGCTTTCCAGGCCGCCTACATCGGCATCGAGGTGCTCATCGCCCTGGTCTCTG  
TGCCCGGAACGTGCTGGTGATCTGGGCGGTGAAGGTGAACCAGGCGCTGCGGGATGCCACCTTCTGCTT  
CATCGTGTGCTGGCGGTGGCTGATGTGGCCGTGGGTGCCCTGGTCATCCCCCTCGCCATCCTCATCAAC  
ATTGGGCCACAGACCTACTTCCACACCTGCCTCATGGTTGCCTGTCCGGTCCCTCATCCTCACCCAGAGCT  
CCATCCTGGCCCTGCTGGCAATTGCTGTGGACCGCTACCTCCGGTCAAGATCCCTCTCCGGTACAAGAT  
GGTGGTGACCCCCGGAGGGCGGGTGGCCATAGCCGGCTGCTGGATCCTCTCCTTCGTGGTGGGACTG  
ACCCCTATGTTTGGCTGGAACAATCTGAGTGCGGTGGAGCGGGCCTGGGAGCCAACGGCAGCATGGGGG  
AGCCCGTGATCAAGTGCAGTTCGAGAAGGTATCAGCATGGAGTACATGGTCTACTTCAACTTCTTTGT  
GTGGGTGCTGCCCGCTTCTCCTCATGGTCTCATCTACCTGGAGGTCTTCTACCTAATCCGCAAGCAG  
CTCAACAAGAAGGTGTCGGCCTCCTCCGGCAGCCGAGAAGTACTATGGGAAGGAGCTGAAGATCGCCA  
AGTCGCTGGCCCTCATCCTTCTCCTTTGCCCTCAGTGGTGCCTTTGCACATCCTCAACTGCATCAC  
CCTTTCTGCCCGTCTGCCACAAGCCAGCATCCTTACCTACATTGCCATCTTCTCACGCACGGCAAC  
TCGGCCATGAACCCATTGTCTATGCCTCCGCATCCAGAAGTCCGCGTCACCTTCTTAAGATTTGGA  
ATGACCATTTCCGCTGCCAGCCTGCACCTCCATTGACGAGGATCTCCAGAAGAGAGGCCTGATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC222013 representing NM\_000674  
Red=Cloning site Green=Tags(s)

MPPSISAFQAAYIGIEVLIALVSVPGNVLVIWVKNQALRDATFCFIVSLAVADVAVGALVIPLAILIN  
 IGPQTYFHTCLMVACPVLILTQSSILALLAIAVDRLRVKIPLRYKMVTPRRAAVAIAGCWILSFVVGL  
 TPMFGWNNLSAVERAWAANGSMGEPVIKCEFEKVISMEYMYVFNFFVWVLPPLLLMLVIYLEVFYLIRKQ  
 LNKKVSASSGDPQKYYGKELKIAKSLALILFLFALSWLPLHILNCITLFCPSCHKPSILTYIAIFLTHGN  
 SAMNPIVYAFRIQKFRVTLKIWNDFRCQPAPPIDEDLPEERPDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6109\\_c02.zip](https://cdn.origene.com/chromatograms/mk6109_c02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000674

**ORF Size:** 978 bp

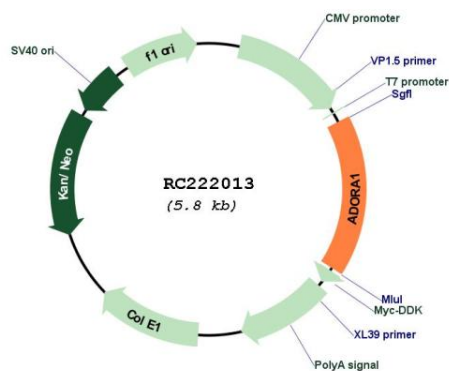
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

<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_000674.3</a>
<b>RefSeq Size:</b>	2900 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	134
<b>UniProt ID:</b>	<a href="#">P30542</a>
<b>Cytogenetics:</b>	1q32.1
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>MW:</b>	36.3 kDa
<b>Gene Summary:</b>	<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>

Product images:



Circular map for RC222013