

Product datasheet for **RC236268**

Adenosine A3 Receptor (ADORA3) (NM_001302679) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adenosine A3 Receptor (ADORA3) (NM_001302679) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ADORA3
Synonyms: A3AR
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236268 representing NM_001302679
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTGGCTGGAACATGAAACTGACCTCAGAGTACCACAGAAATGTCACCTTCCTTTCATGCCAATTTG
 TTTCCGTCATGAGAATGGACTACATGGTATACTCAGCTTCCTCACCTGGATTTTCATCCCCTGGTTGT
 CATGTGCGCCATCTATCTTGACATCTTTTACATCATTGGAACAAACTCAGTCTGAAGTATCTAACTCC
 AAAGAGACAGGTGCATTTTATGGACGGGAGTTCAAGACGGCTAAGTCCTTGTCTGTTCTTTCTTGT
 TTGCTCTGTCATGGCTGCCTTTATCTATCATCAACTGCATCATCTACTTTAATGGTGAGGTACCACAGCT
 TGTGCTGTACATGGGCATCCTGCTGTCCCATGCCAACTCCATGATGAACCTATCGTCTATGCCTATAAA
 AATAAGAAGTTCAAGGAAACCTACCTTTTGATCCTCAAAGCTTGTGTGGTCTGCCATCCCTCTGATTCTT
 TGGACACAAGCATTGAGAAGAATTCTGAG

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236268 representing NM_001302679
 Red=Cloning site Green=Tags(s)

MFGWNMKL TSEYHRNVTFLSCQFVSVMRMDYMVYFSLTWIFIPLVVMCAIYLDIFYIIRNKL SLNLSNS
 KETGAFYGREFKTAKSLFLVFLFALS WLPLSI INCI IYFNGEV PQLVL YMGILL SHANSMMNP IYVAYK
 IKKFKEYLLILKACVCHPSDSLDT SIEKNSE

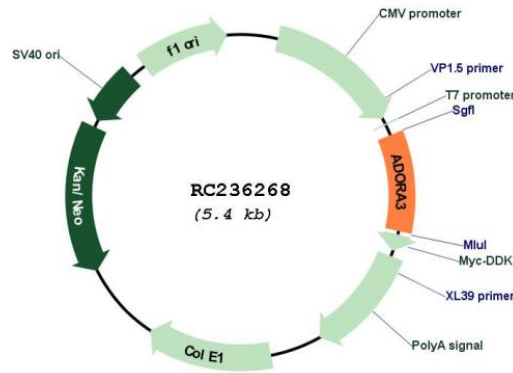
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001302679

ORF Size: 519 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).
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:	<u>NM_001302679.2</u>
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
MW:	20.6 kDa
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]