

Product datasheet for **RG206508**

Adenosine A3 Receptor (ADORA3) (NM_000677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine A3 Receptor (ADORA3) (NM_000677) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adenosine A3 Receptor
Synonyms:	A3AR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206508 representing NM_000677 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCCAACAACAGCACTGCTCTGTCATTGGCCAATGTTACCTACATCACCATGGAAATTTTCATTGGAC
TCTGCGCCATAGTGGCAACGTGCTGGTCATCTGCGTGGTCAAGCTGAACCCAGCCTGCAGACCACCAC
CTTCTATTTTCATTGTCTCTAGCCCTGGCTGACATTGCTGTTGGGGTGTGGTCATGCCTTTGGCCATT
GTTGTCAGCCTGGGCATCACAATCCACTTCTACAGCTGCCTTTTATGACTTGCCTACTGCTTATCTTTA
CCCAGCCTCCATCATGTCCTTGTGGCCATCGCTGTGGACCGATACTTGCGGTCAAGCTTACCGTCAG
ATACAAGAGGGTCAACACTCACAGAAGAATATGGCTGGCCCTGGCCCTTTGCTGGCTGGTGTCAATCCTG
GTGGGATTGACCCCATGTTTGGCTGGAACATGAAACTGACCTCAGAGTACCACAGAAATGTCACCTTCC
TTTCATGCCAATTTGTTCCGTCATGAGAATGGACTACATGGTATACTTCAGCTTCTCACCTGGATTTT
CATCCCCCTGGTTGTCATGTGCGCCATCTATCTTGACATCTTTTACATCATTGGAAACAACTCAGTCTG
AACTTATCTAACTCAAAGAGACAGGTGCATTTTATGGACGGGAGTTCAAGACGGCTAAGTCTTGTTC
TGGTCTTTTCTGTTTGTCTGTGTCATGGCTGCCTTTATCTATCATCAACTGCATCATCTACTTTAATGG
TGAGGTACCACAGCTTGTGCTGTACATGGGCATCCTGCTGTCCCATGCCAACTCCATGATGAACCCATC
GTCTATGCCTATAAAATAAAGAAGTTCAAGGAAACCTACCTTTGATCCTCAAAGCCTGTGTGGTCTGCC
ATCCCTCTGATTCTTTGGACACAAGCATTGAGAAGAATTCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206508 representing NM_000677
Red=Cloning site Green=Tags(s)

MPNNSTALSLANVTYITMEIFIGLCAIVGNVLVICVVKLNPSLQTTTFYFIVSLALADIAVGVLVMP LAI
 VVSLGITIHFYSCLFMTCLLLIFTHASIMSLLAIAVDRLRVKLVTRYKRVTTTHRRILWALGLCWLVSFL
 VGLTPMFGWNMMLTSEYHRNVTFLSCQFVSMRMDYMYVFSFLTWIF IPLVVMCAIYLDIFYIIRNKLSL
 NLSNSKETGAFYGREFKAKSLFLVFLFALSWLPLSIINCIYFNGEVPQLVLYMGILLSHANSMMNPI
 VYAYKIKKFKETYLLILKACVVCHPSDSLDTSEIKNSE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000677

ORF Size: 954 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:

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_000677.2](#), [NP_000668.1](#)

RefSeq Size: 2241 bp

RefSeq ORF: 957 bp

Locus ID: 140

UniProt ID: [P33765](#)

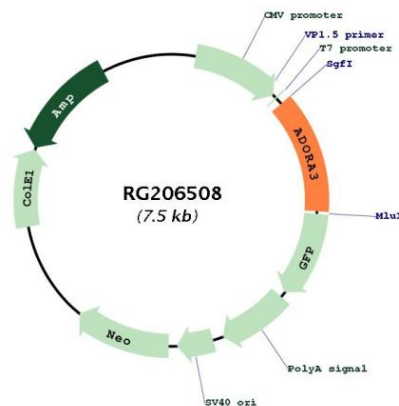
Cytogenetics: 1p13.2

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 GenID:57413, which encodes an immunoglobulin domain-containing protein. [provided by RefSeq, Nov 2014]

Product images:



Circular map for RG206508