

Product datasheet for **RG235809**

Adenosine A3 Receptor (ADORA3) (NM_001302678) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine A3 Receptor (ADORA3) (NM_001302678) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADORA3
Synonyms:	A3AR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235809 representing NM_001302678. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCAACAAACAGCACTGCTCTGTCATTGGCCAAATGTTACCTACATCACCATGGAAATTTTCATTGGA
CTCTGCGCCATAGTGGGCAACGTGCTGGTCATCTGCGTGGTCAAGCTGAACCCAGCCTGCAGACCACC
ACCTTCTATTTTCATTGTCTCTAGCCCTGGCTGACATTGCTGTTGGGGTCTGGTCATGCCTTTGGCC
ATTGTTGTCAGCCTGGGCATCACAATCCACTTCTACAGCTGCCTTTTTATGACTTGCCTACTGCTTATC
TTTACCACGCCCTCCATCATGTCCTTGTGGCCATCGTGTGGACCGATACTTCCGGGTCAAGCTTACC
GTCAGCTCCATCTCCCCTACCCTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235809
Blue=ORF Red=Cloning site Green=Tag(s)

```
MPNNSTALSLANVTYITMEIFIGLCAIVGNLVICVVKLNPSLQTTTFYFIVSLALADIAGVGLVMPPLA
IVVSLGITIHFYSCLFMTCLLLIFTHASIMSLLAIAVDRYLRVKLTVSSISPTL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI

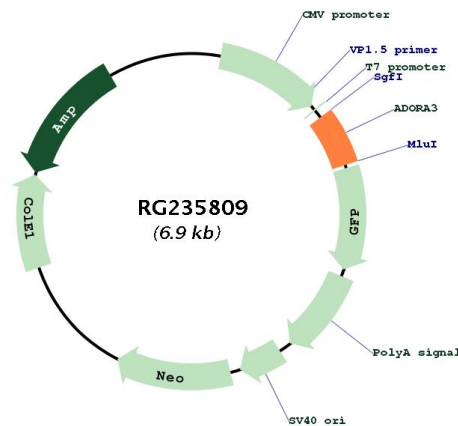


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001302678

ORF Size: 369 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).
RefSeq:	NM_001302678.2
RefSeq Size:	2325 bp
RefSeq ORF:	372 bp
Locus ID:	140
Cytogenetics:	1p13.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	13.7 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]