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Product datasheet for MG227237

Adora3 (NM_009631) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adora3 (NM_009631) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adora3
Synonyms:	A3AR; A3R; AA3R; ARA3; Gpcr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG227237 representing NM_009631
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGCCGACAACACCACGGAGACGGACTGGCTGAACATCACCTACATCACCATGGAGGCTGCCATCG
GGCTCTGTGCCGTTGTGGGCAACATGCTGGTCATCTGGGTGGTCAAGCTGAACCCCACTCTGAGGACCAC
CACGTTCTATTTCATTGTCTCCCTAGCACTGGCTGACATTGCCGTTGGGGTGCTGGTCACACCTTTGGCC
ATTGCTGTCAGCCTGCAAGTCAAGATGCACTTCTATGCCTGCCTTTTCATGTCCTGTGTGCTGCTGATCT
TCACCCATGCTTCCATCATGTCCTTGCTGGCCATTGCTGTAGACCGATACCTGCGGGTCAAGCTGACAGT
CAGATATAGAACGGTTACCACTCAAAGAAGAATATGGCTATTCTTGGGCCTTTGCTGGCTAGTTTCCTTT
CTGGTGGGGCTGACCCCCATGTTTGGCTGGAATAGAAAAGCAACCTTAGCGAGCTCTCAAAATAGCAGCA
CTCTTTTGTGCCACTTCCGTTCCGTGGTCAGTTTGGATTACATGGTCTTCTTCAGCTTCGTCACCTGGAT
CCTCGTCCCCCTGGTTGTCATGTGTGTCATCTACCTAGACATCTTCTACATCATCCGAAATAAGCTCAGT
CAAAACCTGTCTGGCTTCAGAGAGACGCGTGCATTTTATGGACGGGAGTTCAAGACAGCTAAGTCCCTGT
TTCTGGTTCTCTTCTTGTTTGCGCTGTGCTGGCTGCCTTTGTCCATCATCAATTTTGTTTCCTATTTTGA
TGTAAAGATACCAGATGTCGCAATGTGCCTGGGGATCCTGTTGTCCCACGCGAACTCCATGATGAACCCT
ATTGTCTACGCCTGCAAAATAAAAAAGTTCAAAGAGACCTACTTTCTGATCCTCAGAGCTCTCAGGCTCT
GTCAGACCTCAGATTCTTTGGACTCAAACATGGAACAGACTACTGAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

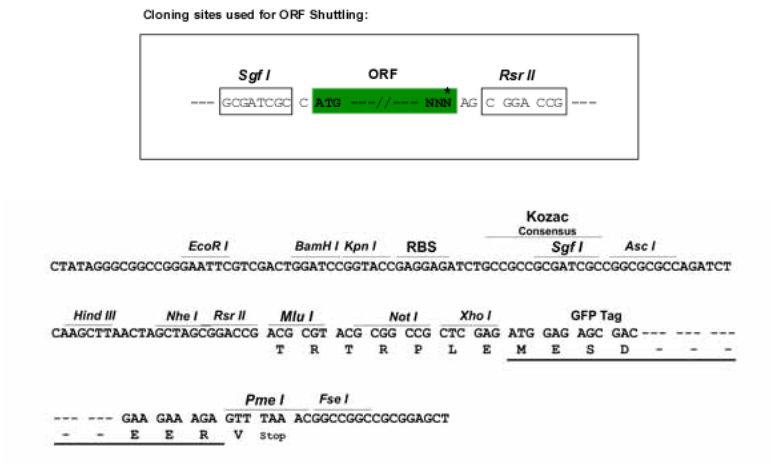
>MG227237 representing NM_009631
Red=Cloning site Green=Tags(s)

MEADNTTETDWLNITYITMEAAIGLCAVVGNMLVIWVVKLNPTLRTTTFYFIVSLALADIAVGVLVTPLA
IAVSLQVKMHFYACLFMSCVLLIFTHASIMSLLAIAVDRYLRVKLTVRYRTVTTQRRIWLFLGLCWLVSF
LVGLTPMFGWNRKATLASSQNSSTLLCHFRSVVSLDYMVFFSFVTWILVPLVVMCVIYLDIFYIIRNKLS
QNLSGFRETRAFYGREFKTAKSLFLVLFLFALCWLPLSIINFVSYFDVKIPDVAMCLGILLSHANSMMNP
IVYACKIKKFKETYFLILRALRLCQTSDSLDSNMEQTTE

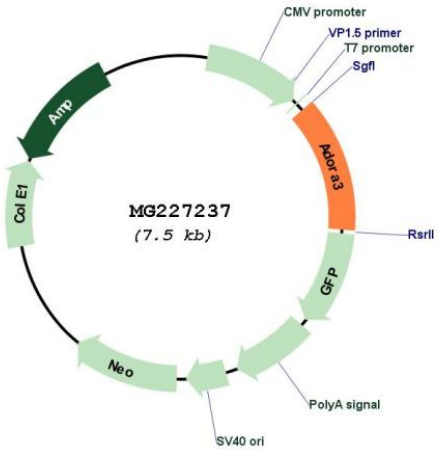
SGPTRTRRLE – GFP Tag – V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_009631

ORF Size: 957 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_009631.4, NP_033761.2
RefSeq Size:	1797 bp
RefSeq ORF:	960 bp
Locus ID:	11542
Cytogenetics:	3 46.45 cM
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. This gene shares its 3' terminal exon with a transcript variant from overlapping GeneID:69296, which encodes an immunoglobulin domain-containing protein. [provided by RefSeq, Nov 2014]