

Product datasheet for **MG226223**

Adrb1 (NM_007419) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adrb1 (NM_007419) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adrb1
Synonyms:	Adrb-1; beta-AR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG226223 representing NM_007419
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCGCGGGGCGCTCGCCCTGGGCGCTCCGAACCCTGCAACCTGTGTCGCCCGCGCCGCTGCCCG
 ACGGTGCGGCCACCGCGCGCGGCTGCTGGTGCTCGCGTCGCCTCCCGCCTCGCTGCTGCCCTCCAGCCAG
 CGAGGGCTCAGCGCCGCTGTCGACGAGTGACCGCGGGTATGGGCTACTGCTGGCGCTCATCGTTCTG
 CTCATCGTGGTAACTGCTGGTATCGTGGCCATCGCCAAGACCCCGGGTGCAGACGCTACCA
 ACCTCTTCATCATGTCCCTGGCCAGCGTGATCTGGTATGGGATTGCTGGTGGTGCCTTCGGGGCCAC
 CATCGTGGTGTGGGGCCGCTGGGAGTACGGCTCCTTCTTCTGCGAGCTCTGGACTTCGGTAGATGTGCTG
 TGTGTGACGGCCAGCATTGAGACCCTGTGTGCATCGCCCTGGACCGCTACCTCGCCATCACGTCGCCCT
 TTCGCTACCAGAGTTTGTGACGCGCGCGAGCGGGCCCTCGTGTGCACAGTGTGGCCATCTCGGC
 GTTGGTGTCTTCTGCCATCCTCATGCACTGGTGGCGGGCCGAGAGCGACGAAGCGCGCCGCTGTAC
 AACGACCCCAAGTGTGCGATTTTCGTACCAACAGGGCCTACGCCATCGCCTCGTCCGTCGCTCCTTCT
 ACGTGCCCTGTGCATCATGGCCTTCGTGTACCTGCGGGTGTTCGCGAGGCCAAAAACAGGTAAGAA
 GATCGACAGCTGCGAGCGCCGCTTCTCGGCGGCCAGCCCGGCCGCCCTCGCCTGAGCCCTCGCCGTCA
 CCTGGGCCACCGCGCCCGCAGACTCGCTGGCCAACGGGCGCTCCAGCAAGCGCGGCCGCTCGCGCCTCG
 TGGCTCTGCGCGAGCAGAAGGCGCTCAAGACACTGGGCATCATATGGGTGTGTTACGCTCTGTGGCT
 GCCCTTCTTCTGGCCAACTGGTGAAGGCTTCCACCGCGACCTGGTGGCGGATCGCCTCTTCTGCTTC
 TCAACTGGTGGGCTACGCCAACTCGGCCTTCAACCCCATCATCTACTGCCGAGCCCCGACTTCCGCA
 AGGCTTTCAGCGCCTGCTCTGCTGCGCGCGCGGGCCGCTGCAGACCGCGCGCACCCACGGGGACCG
 GCGCGCGCCTCCGGCTGCCTGGCGAGAGCTGGGCGCCGCCCGTCCCCCGGAGCTCCCTCGGACGACGAC
 GACGACGACGCCGGGACACCCACCGCGCGCCTGCTGGAGCCCTGGACCGGCTGCAACGGCGGGACAA
 CCACTGTGGACAGCGATTGAGCCTGGACGAGCGGGGCCAGGGCTTCTCCTCGGAGTCCAAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226223 representing NM_007419
 Red=Cloning site Green=Tags(s)

MGAGALALGASEPCNLSSAAPLPDGAATAARLLVLASPPASLLPPASEGSAPLSQQWTAGMGLLLALIVL
 LIVVGNLVIVIAIAKTPRLQTLTNLFIMSLASADLVMGLLVVPPGATIVVWGRWEYGSFFCELWTSVDVL
 CVTASIEITLCVIALDRYLAIITSPFRYQSLLTRARARALVCTVWAI SALVSFLPILMHWWRAESDEARRCY
 NDPKCCDFVTNRAYAIASSVVSFYVPLCIMA FVYLRVFREAQKQVKKIDSCERRFLGGPARPPSPEPSPS
 PGPPRPADSLANGRSSKRRPSRLVALREQKALKTLGIIMGVFTLCWLPFFLANVVKAFHRDLVPDRFLVF
 FNWLYANSANFPIIYCRSPDFRKA FQRLLCARRAACRRRAAHGDRPRASGCLARAGPPPSPGAPSDDD
 DDDAGTTPPARLLEPWTGCNGGTTTVDSDSSLDEPGRQGFSSKSV

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1495_a02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_007419

ORF Size: 1398 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_007419.3](#)

RefSeq Size: 2491 bp

RefSeq ORF: 1401 bp

Locus ID: 11554

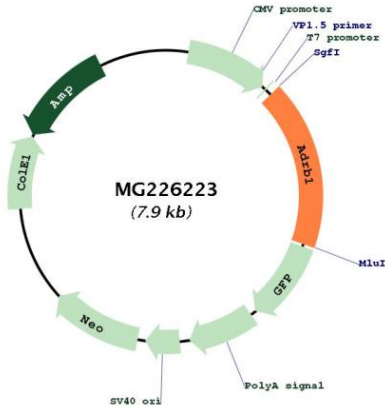
UniProt ID: [P34971](#)

Cytogenetics: 19 51.96 cM

Gene Summary:

Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. This receptor binds epinephrine and norepinephrine with approximately equal affinity. Mediates Ras activation through G(s)-alpha- and cAMP-mediated signaling (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226223