

Product datasheet for **MR222681**

Adra1a (NM_013461) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adra1a (NM_013461) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adra1a
Synonyms:	Adr; Adra1c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR222681 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCTCTTTCTGAAAATGCTTCTGAAGGCTCCAACCTGCACCCACCCGCCAGCACAGGTGAACATTT
 CTAAGGCCATTCTACTTGGGGTATCTTGGGGGCCTCATCATTTTCGGGGTCTTGGGGAATATTTTAGT
 GATCCTCTCGGTGGCCTGTCATCGGCATCTGCACTCGGTGACTACTACTACATTGTCAACCTGGCTGTG
 GCAGACCTCCTCCTCACCTCCACCGTGTGCCCTTCTCTGCCATCTTTGAGATCCTGGGCTACTGGGCTT
 TTGGCAGGGTGTCTGCAACATCTGGCGGGCGGTGGACGTCTTATGCTGCACAGCGTCCATCATGGGCTT
 CTGCATCATCTCCATCGACCGATACATTGGTGTGAGCTACCCGCTGCGCTACCCACCATTGTCAACCGAG
 AGGAGGGGCGTCAGGGCTCTGCTCTGCGTCTGGGCGCTTCTTGGTCATCTCCATCGGACCCCTGTTCCG
 GCTGGAGGCAGCAGGCTCCGGAGGATGAGACCATCTGCCAAATCAATGAGGAGCCAGGATACGTGCTGTT
 CTCAGCGCTGGGCTCTTTCTACGTGCCACTGACCATCATCTGGTTATGTACTGTGAGTCTACGTGGTA
 GCCAAGAGAGAAAAGCCGAGGCTCAAGTCCGGCTCAAGACCGACAAGTCAGACTCAGAGCAAGTGACGC
 TCCGTATCCACCGTAAAAATGTCCTGCAGAAGGCAGCGGAGTAAGCAGTGCCAAGAATAAGACTCACTT
 CTCCTGAGGCTGCTCAAGTTTTCCCGAGAGAAGAAAGCCGCAAGACGCTGGGCATTGTGGTGGGATGC
 TTCGTCCTCTGCTGGCTGCCGTTCTTCTCGTGATGCCATTGGGTCCTTCTTCCGAATTTCAAGCCAC
 CGGAAACAGTTTTCAAATAGTATTTGGCTTGGGTACCTAAATAGTTGCATCAACCCTATCATATACCC
 ATGCTCCAGCCAGGAGTTCAAGAAAGCCTTTGAGAATGTGCTGCGAATCCAGTGTCTTCGAGAAGGCAG
 TCTTCCAAGCATGCCCTGGGCTACACTCTGCACCCACCCAGCCAGGCTGTAGAGGGGCAGCACAGAGGCA
 TGGTGCGTATCCCGTGGGCTCAGGAGAGACTTTCTATAAGATCTCCAAGACAGATGGAGTCCGTGAATG
 GAAGTTTTTCTTCCATGCCCCAGGGATCGGCCAGGATTACCATGCCGAAGGACCAATCCGCCTGTACC
 ACAGCCCGGGTGAGAAGTAAAAGCTTTTTGCAGGTCTGCTGCTGTGTGGGGTCTGCGACCCACGCCCTG
 AAGAAAATCACCAAGTTCACCATTAAGATCCACACCATCTCCCTCGGTGAAAACGGGGAGGAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222681 protein sequence
 Red=Cloning site Green=Tags(s)

MVLLSENASEGSNCTHPPAQVNISKAILLGVILGGLIIFGVLGNILVILSVACHRHLHVSHTYIYVNLAV
 ADLLLSTVLPFSAIFEILGYWAFGRVFCNIWAADVLCCTASIMGLCIISIDRYIGVSYPLRYPTIVTQ
 RRGVRRALLCVWALSLVISIGPLFGWRQQAPEDETICQINEEPGYVLFALGSFYVPLTIILVMYCRVYVV
 AKRESRGLKSGLKTDKSDSEQVTLRIHRKNVPAEGSGVSSAKNTHFSVRLKFSREKKAATLGIIVGVC
 FVLCWLPFFLVMPISFFPNFKPPETVFKIVFWLGYLNSCINPIIYPCSSQEFKKAQNVLRIQCLRRRQ
 SSKHALGYTLHPPSQAVEGQHRGMVRIPVGSGETFYKISKTDGVREWKFFSSMPQGSARITMPKQDSACT
 TARVRSKSFLLQVCCCVGSSTPRPEENHQVPTIKIHTISLGENGEEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_013461

ORF Size: 1401 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

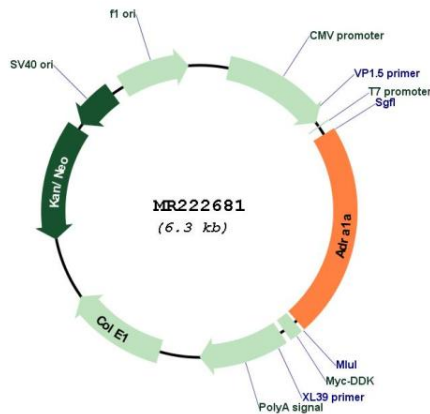
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_013461.1](#), [NM_013461.2](#), [NM_013461.3](#), [NM_013461.4](#), [NP_038489.2](#)
RefSeq Size: 4277 bp
RefSeq ORF: 1401 bp
Locus ID: 11549
UniProt ID: [P97718](#)
Cytogenetics: 14 D1
MW: 51.7 kDa

Gene Summary: This gene encodes one of several multipass transmembrane proteins that function as G protein-coupled receptors. The encoded protein binds to epinephrine and norepinephrine to mediate signaling in cells of the cardiac, nervous, and other organ systems. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2012]

Product images:



Circular map for MR222681