

Product datasheet for **MR222562**

Adra2a (NM_007417) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|-------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Adra2a (NM_007417) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Adra2a |
| Synonyms: | Adra-2; Adra-2a; alpha(2A)AR; alpha2-C10; alpha2A; alpha2A-AR; AW122659 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR222562 representing NM_007417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCGCCAGGAGCAGCCGCTGGCCGAGGGCAGCTTTGCGCCATGGGCTCACTGCAGCCGGATGCCG
 GCAACAGCAGCTGGAACGGGACCGAAGCGCCCGGAGGCGGCACCCGAGCCACCCCTACTCCCTGCAGGT
 GACACTGACGCTGGTTTGCCTGGCTGGCCTGCTCATGCTGTTACAGTATTTGGCAACGTCTGGTTATT
 ATCGCGGTGTTACACAGTCGCGCGCTCAAAGCTCCCAAAACCTTCTCCTGGTGTCCCTGGCCTCAGCGG
 ACATCCTGGTGGCCACGCTGGTCATTCCCTTTTCTTTGGCCAACGAGTTATGGGTTACTGGTACTTTGG
 TAAGGTGTGGTGTGAGATCTATTTGGCTCTCGACGTGCTTTTTGCACGTGCTCCATAGTGCACCTGTGC
 GCCATCAGCCTTGACCGCTACTGGTCCATCACGAGGCCATCGAGTACAACCTGAAGCGCACGCCGCGTC
 GCATCAAGGCCATCATTGTACCGTGTGGGTATCTCGGCTGTCATCTCCTTCCCGCCACTCATCTCCAT
 AGAGAAGAAGGGCGCTGGCGGCGGCAGCAGCCGCGCCAGCCAAGCTGCAAGATCAACGACCAGAAGTGG
 TATGTCATCTCCTCGTCCATCGGTTCTTCTTCGCGCCTTGCCCTCATCATGATCCTGGTCTACGTGCGTA
 TTTACCAGATCGCCAAGCGTGCACCCGCGTGCCTCCAGCCGCGGGGTCCGGACGCTGTTCCCGGCC
 GCCGGGGGGCGCCGATCGCAGGCCAACGGGCTGGGCCCGGAGCGCGCGCGGGTCCCACGGGCGCTGAG
 GCGGAGCCGCTGCCACCCAGCTAACGGTGCCCGGGGGAGCCCGCGCCCGCGGGGCCCGCGATGGGG
 ATGCGCTGGACCTAGAGGAGAGTTTCGTGTCGAGCACGCCGAGCGGCCCGGGGGCCCCGAGACCCGA
 CCGCGGCCCGAGCCAAGGGCAAGACCCGGGCGAGTCAGGTGAAGCCGGGGACAGTCTGCCGCGGCGC
 GGGCCCCGGGGCCCGGGGCCGGGGCTTCGGGTCCGGGCACGGAGAGGAGCGCGCGGGGGGCCAAAG
 CGTCGCGCTGGCGCGGGAGGCAAAACCGGAGAAACGCTTACGTTCTGTGCTGGCGGTGGTGTGCGGT
 GTTCGTGGTGTGTTGGTTCCGTTCTTTTTACCTACACGCTCATAGCGTCTGGCTGCCCGGTGCCCAGC
 CAGCTCTCAACTTCTTCTGTTTCGCTACTGCAACAGCTCGCTGAACCCTGTTATCTACACCATCT
 TCAACCACGACTTCGACGCGCCTTCAAGAAGATCCTCTGCCGTGGGGACAGAAAACGCATCGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>MR222562 representing NM_007417
 Red=Cloning site Green=Tags(s)

MFRQEQLAEGSFAPMGSQPDAGNSSWNGTEAPGGGTRATPYSLQVTLTLVCLAGLLMLFTVFGNVLVI
 IAVFTSRALKAPQNLFLVSLASADILVATLVIPFLANEVMGYWYFGKVVCEIYLALDVLCTSSIVHLC
 AISLDRYWSITQAIEYNLKRTPRRIKAIIVTVWVISAVISFPPLISIEKKGAGGGQPAEPSCKINDQKW
 YVIVSSIGSFFAPCLIMILVYVRIYQIAKRRTVPPSRRGPDACSAPPGADRRPNGLGPERGAGPTGAE
 AEPLPTQLNGAPGEPAPAGPRDGDALDLEESSSEHAERPPGPRRDRGPRAKGRASQVKPGDSLPRR
 GPGAAGPGASGSGHGEERGGAKASRWRGRQNRKRTFVLAUVIGVFVVCWFPFFFTYTLIAVGCVPVS
 QLFNFFFWFGYCNSSLNPVIYTIFFNHDFRRAFKKILCRGDRKRIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_c03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_007417

ORF Size: 1395 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.

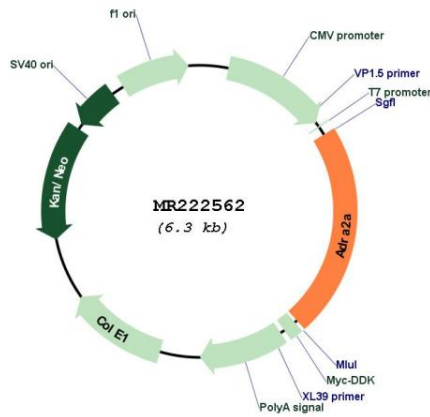
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_007417.5](#)
 RefSeq Size: 3818 bp
 RefSeq ORF: 1398 bp
 Locus ID: 11551
 UniProt ID: [Q01338](#)
 Cytogenetics: 19 49.04 cM
 MW: 51 kDa

Gene Summary: Alpha-2 adrenergic receptors mediate the catecholamine-induced inhibition of adenylate cyclase through the action of G proteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222562