

Product datasheet for **MG222562**

Adra2a (NM_007417) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adra2a (NM_007417) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adra2a
Synonyms:	Adra-2; Adra-2a; alpha(2A)AR; alpha2-C10; alpha2A; alpha2A-AR; AW122659
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222562 representing NM_007417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCCGCCAGGAGCAGCCGCTGGCCGAGGGCAGCTTTGCGCCCATGGGCTCACTGCAGCCGGATGCCG
 GCAACAGCAGCTGGAACGGGACCGAAGCGCCCGGAGGCGGCACCCGAGCCACCCCTACTCCCTGCAGGT
 GACACTGACGCTGGTTTGCCTGGCTGGCCTGCTCATGCTGTTACAGTATTTGGCAACGTCTGGTTATT
 ATCGCGGTGTTACACAGTCGCGCGCTCAAAGCTCCCAAAACCTTCTCCTGGTGTCCCTGGCCTCAGCGG
 ACATCCTGGTGGCCACGCTGGTCATTCCCTTTTCTTTGGCCAACGAGTTATGGGTTACTGGTACTTTGG
 TAAGGTGTGGTGTGAGATCTATTTGGCTCTCGACGTGCTCTTTTGCACGTGCTCCATAGTGCACCTGTGC
 GCCATCAGCCTTGACCGCTACTGGTCCATCACGAGGCCATCGAGTACAACCTGAAGCGCACGCCGCGTC
 GCATCAAGGCCATCATTGTACCGTGTGGGTATCTCGGCTGTCATCTCCTTCCCGCCACTCATCTCCAT
 AGAGAAGAAGGGCGCTGGCGGCGGCAGCAGCCGCGCCGAGCCAAGCTGCAAGATCAACGACCAGAAGTGG
 TATGTCATCTCCTCGTCCATCGGTTCTTCTTCGCGCCTTGCCCTCATCATGATCCTGGTCTACGTGCGTA
 TTTACCAGATCGCCAAGCGTCGCACCCGCGTGCCTCCAGCCGCGGGGTCCGGACGCTGTTCCCGGCC
 GCCGGGGGGCGCGATCGCAGGCCAACGGGCTGGGCCCGGAGCGCGCGCGGGTCCCACGGGCGCTGAG
 GCGGAGCCGCTGCCACCCAGCTTAACGGTGCCCGGGGGAGCCCGCGCCCGCGGGGCCCGCGATGGGG
 ATGCGCTGGACCTAGAGGAGAGTTTCGTGTCGAGCACGCCGAGCGGCCCGGGGGCCCCGAGACCCGA
 CCGCGGCCCGAGCCAAGGGCAAGACCCGGGCGAGTCAGGTGAAGCCGGGGACAGTCTGCCGCGGCGC
 GGGCCCCGGGGCCCGGGGCCGGGGCTTCGGGTCCGGGCACGGAGAGGAGCGCGGGGGGGCCCAAG
 CGTCGCGCTGGCGGGGAGGCAAAACCGGAGAAACGCTTACGTTCTGTGCTGGCGTGGTGTGCGGCT
 GTTCGTGGTGTGTTGGTTCCGTTCTTTTTACCTACACGCTCATAGCGTTCGGTGCCTCGCCGTCGCCAGC
 CAGCTCTCAACTTCTTCTGTTTCGCTACTGCAACAGCTCGCTGAACCCTGTTATCTACACCATCT
 TCAACCACGACTTCGACGCGCCTTCAAGAAGATCCTCTGCCGTGGGGACAGAAAACGCATCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222562 representing NM_007417
 Red=Cloning site Green=Tags(s)

MFRQEQLAEGSFAPMGS LQPDAGNSSWNGTEAPGGGTRATPYS LQVTL TLVCLAGLLMLFTVFGNVLVI
 IAVFTSRALKAPQNLFLVSLASADILVATLVIPFSLANEVMGYWYFGKVVCEIYLALDVLCTSSIVHLC
 AISLDRYWSITQAI EYNLKRTPRRIKAIIVTVWVISAVISFPPLISIEKKGAGGGQQAEPSCINDQKW
 YVIVSSSIGSFFAPCLIMILVYVRIYQIAKRRTRVPPSRRGPDACSAPPGADRRPNLGP ERGAGPTGAE
 AEPLPTQLNGAPGEPAPAGPRDGDALDLEESSSEHAERPPGPRRDRGPRAKGKTRASQVKPGDSLPRR
 GPAAAGPGASGSGHGEERGGAKASRWRGRQNRKRFVFLAVVIGVFVVCWFPFFFTYTLIAVGCPVPS
 QLFNFFFWFGYCNSSLNPVIYITIFNHDFRRAFKKILCRGDRKRIV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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.

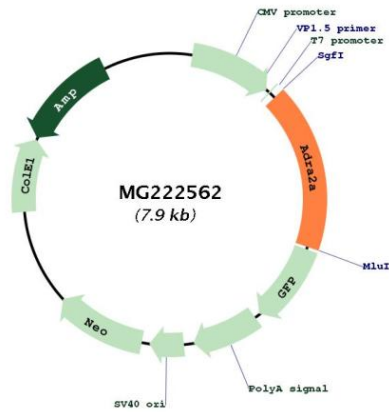
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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
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 MG222562