

## Product datasheet for **MR216706**

### **Adra2b (NM\_009633) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Adra2b (NM_009633) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adra2b
Synonyms:	a2b-AR; Adra-2b; alpha2-C2; alpha2B; [a]2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216706 representing NM\_009633  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCCGGCCCCGCCATGGTCCACCAGGAGCCCTACTCGGTGCAGGCCACCGCCGCATCGCGTCGGCCA  
 TCACCTTTCTCATCCTCTTACCATTTTCGGCAATGCGCTGGTAATTCTGGCTGTGTTGACCAGCCGCTC  
 TCTCCGTGCACCACAAAACCTCTTCTGGTGTCACTGGCAGCAGCCGACATCCTAGTGGCTACTCTTATC  
 ATCCCTTTCTCTGCGCAACGAGCTGCTGGGCTATTGGTACTTCTGGCGTGCCTGGTGCAGGTTACCC  
 TGGCGCTAGACGTGCTCTTGTACCTCCTCCATCGTGCACCTGTGTGCCATCAGTCTGGACAGATACTG  
 GGCAGTGAGCCGAGCATTGGAGTACAACCTCAAGCGCACTCCACGCCGCATCAAATGCATCATCCTCACC  
 GTGTGGCTCATTGCAGCCGTCATTTCTTACC GCCCCTCATCTACAAGGGCGACCAGCGCCAGAGCCCC  
 ACGGGCTCCCCAGTGTGAGCTCAACCAAGAAGCCTGGTACATCTTGGCTTCCAGCATCGGATCTTTTTT  
 TGCTCCCTGCCTCATCATGATTCTCGTCTACCTGCGAATCTATGTAATTGCCAAACGCAGCCACTGCAGA  
 GGTCTCGGAGCTAAGAGGGGCTCTGGGGAGGGTGAAGTCCAAGAAGCCCATCCGGCCGCCGGGGAGTTC  
 CAGCCTCGGCTAAAGTGCCACCCTGGTCTCTCCTCTATCTTCTGTGGAGAGGCTAATGGACACCCCAA  
 GCCTCAAAGGGAGAAGGAGGAGGGGGAGACCCCTGAAGATCCCAGAGCCAGGGCTTTGCCACCCAATTGG  
 TCTGCCCTGCCAGATCAGTCCAGGACCAGAAGAAGGGGACTAGTGGGGCAACTGCAGAGAAGGGAGCTG  
 AAGAGGATGAAGAGGAGGTGGAAGAATGTGAACCCCAAACACTGCCAGCTTCTCCTGCCTCAGTATTCAA  
 CCCACCTTGCAGCAGCCTCAGACTTCCGGGTGCTGGCCAGCTACGTGGCCAGGTGCTTCTGAGCAAG  
 AATGTGGTGTGGCCAGTGGGCAGTGGTGGCCCGTGGACACAGCTGAGCCGAGAGAAGAGGTTACCT  
 TTGTGCTGGCGGTGGTCATTGGTGTGTTTGTGGTCTGTTGGTTTCCTTTCTTTCAGCTACAGCCTGGG  
 GGCCATCTGCCACAGCACTGCAAGGTACCCCATGGCCTCTTCCAGTCTTCTTCTGGATTGGCTACTGC  
 AACAGCTCTTGAATCCTGTCATCTACACCATCTCAACCAGGACTTCCGCCGTGCTTTTGAAGGATCC  
 TTTGCCGGCAGTGGACCCAGACTGGCTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216706 representing NM\_009633  
 Red=Cloning site Green=Tags(s)

MSGPAMVHQEPYSVQATAAIAASAITFLILFTIFGNALVILAVLTSRSLRAPQNLFLVSLAAADILVATLI  
 IPFSLANELLGYWYFWRAWCEVYLALDVLFTSSIVHLCAISLDRYWAVSRALEYNSKRTPRRIKCIILT  
 VWLIAAVISLPLIYKGDQRPEPHGLPQCELNQEAWYIILASSIGSFFAPCLIMILVYLRIYVIKRSHCR  
 GLGAKRSGEGESKPKHPAAGGVPASAKVPTLVSPSSVGEANGHPKPPREKEEGETPEDPEARALPPNW  
 SALPRSVQDQKKGTSGATAEKGAEEDEEEVEEPEPQTLASPASVFNPLQPPQTSRVLATLRGQVLLSK  
 NVGVASGQWRRRTQLSREKRFVFLAVVIGVFVVCWFPFFFYSYSLGAIQPHCKVPHGLFQFFFWIGYC  
 NSSLNPVIYTIQDFRRFRILCRQWTQTGW

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9039\\_b06.zip](https://cdn.origene.com/chromatograms/mm9039_b06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_009633

**ORF Size:** 1359 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\\_009633.3](#), [NP\\_033763.2](#)

**RefSeq Size:** 3936 bp

**RefSeq ORF:** 1362 bp

**Locus ID:** 11552

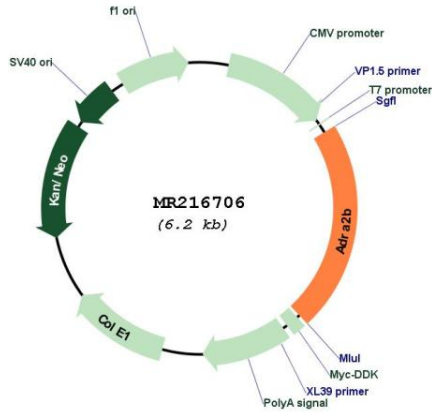
**UniProt ID:** [F8VQ23](#)

**Cytogenetics:** 2 61.95 cM

**MW:** 50.9 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 MR216706