

## Product datasheet for **RR210213**

### Adra2b (NM\_138505) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adra2b (NM_138505) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adra2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR210213 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGCCCCACCATGGACCATCAGGAGCCCTACTCGGTGCAGGCCACCGCCGCATCGCGTCGGCCA  
 TCACCTTTCTCATCCTTTTACCATTTCGGCAATGCGCTGGTCACTTCTGGCTGTGTTGACCAGCCGCTC  
 ACTCCGTGCACCACAAAACCTGTTCTGGTGTCACTGGCAGCAGCCGACATCCTAGTGGCTACTCTCATC  
 ATCCCTTTCTCTCGCCAACGAGCTGTGGGCTACTGGTACTTCTGGCGTGCCTGGTGGCAGGTACTG  
 TGGCGCTAGACGTGCTCTTGTACCTCTCCATCGTGCACCTGTGTGCCATCAGCCTGGACAGGTACTG  
 GGCAGTGAGCCGAGCATTGGAGTACAACCCAAGCGCACTCCGCGCCGCATCAAGTGCATCATCCTCACT  
 GTGTGGCTCATTGCAGCTGTATTTCTCTACCGCCCTCATCTACAAGGGCGACCAACGCCCGAGCCCC  
 GCGGGCTCCCCAGTGTGAGCTCAACCAGGAGCCCTGGTACATCTGGCTTCCAGCATCGGATCTTTTTT  
 TGCTCCCTGCCTCATCATGATCCTCGTCTACCTGCGAATCTACGTGATTGCCAAACGCAGCCACTGCAGA  
 GGTCTCGGAGCCAAGAGGGGCTCTGGAGAAGGTGAGTCCAAGAAGCCCCAGCCGGTTGCTGGGGGAGTGC  
 CAACCTCAGCTAAGGTGCCACCCTGGTCTCTCCTCTATCTTCTGTTGGAGAGGCCAATGGACACCCCAA  
 GCCTCAAAGAGAAGGAGGAGGGGGAGACCCCTGAAGATCCTGAGGCCAGGGCTTTGCCCCAACTTGG  
 TCTGCCCTTCCCAGATCAGGCCAAGGCCAGAAGAAGGGGACTAGTGGGGCGACTGCAGAGGAGGGAGATG  
 AAGAGGATGAGGAAGAGGTGGAAGAATGTGAACCCCAAACACTGCCAGCATCTCCTGCCTCGGTATGCAA  
 CCCACCCTTGACAGCAGCTCAGACTTCTCGGACTGGCCACACTTCGTGGCCAGGTGCTTCTGGGCAAG  
 AATGTGGGAGTTGCCAGTGGCAGTGGTGGCGCAGACGGACACAGCTGAGCCGGGAGAAGAGGTTACCT  
 TTGTGCTGGCCGTGGTCAATTGGAGTTTTCTGGTCTGCTGGTTTTCTTTCTTTCAGTACAGCCTGGG  
 GGCCATCTGCCACAGCACTGCAAGGTACCGCATGGCCTCTTCCAGTTCTTCTTCTGGATCGGCTACTGC  
 AACAGCTCTTTGAACCCTGTCATCTACACCGTCTTCAACCAGGACTTCCGCCGTGCTTTTGAAGGATCC  
 TTTGCCGGCCGTGGACCCAGACTGGCTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR210213 protein sequence  
 Red=Cloning site Green=Tags(s)

MSGPTMDHQEPYSVQATAAIASAITFLILFTIFGNALVILAVLTSRSLRAPQNLFLVSLAAADILVATLI  
 IPFSLANELLYWYFWRAWCEVYLALDVLFTSSIVHLCAISLDRYWAVSRLEYNSKRTPRRIKCIILT  
 VWLIAAVISLPLLIYKGDQRPEPRGLPQCELNQEAWYILASSIGSFFAPCLIMILVYLRIYVIAKRSHCR  
 GLGAKRSGEGESKKPQPVAGGVPTSAAKVPVPLVSPLSSVGEANGHPKPPREKEEGETPEDPEARALPPTW  
 SALPRSGQGQKKGTSGATAEEGDEEEDVEEVECEPQTLASPASVCNPPQQPQTSRVLATLRGQVLLGK  
 NVGVASGQWRRRTQLSREKRFVFLAVVIGVVFVVCWFPFFFYSYSLGAIQPHCKVPHGLFQFFFWIGYC  
 NSSLNPVIYTVFNQDFRRFRILCRPWTQTGW

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_138505

**ORF Size:** 1359 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](mailto: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\\_138505.2](#), [NP\\_612514.2](#)

RefSeq Size: 4047 bp

RefSeq ORF: 1362 bp

Locus ID: 24174

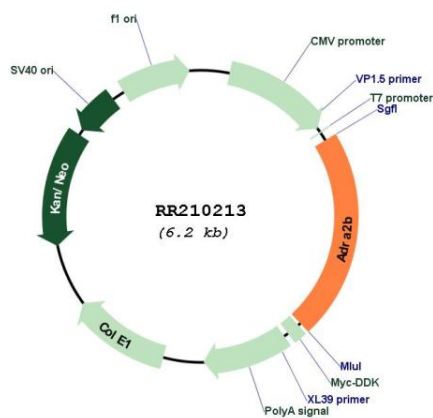
UniProt ID: [P19328](#)

Cytogenetics: 3q36

MW: 50.4 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 RR210213