

Product datasheet for **RR215626**

Adra2c (NM_138506) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Adra2c (NM_138506) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Adra2c |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RR215626 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCCCCAGCGCTGGCCGCGGCCCTGGCGCGCGCGCGCTGAGGGCCCCAACGGGAGCGACGCGG
 GCGAATGGGGTAGCGGCGGGGTGCCAATGCCTCGGGACCGACTGGGCACCACCGCCGGGCCAGTACTC
 CGCAGGTGCTGTGGCAGGGCTGGCAGCCGTGGTGGTTTTCTCATCGTTTTACCGTGGTGGCACCCTG
 CTCGTGGTGATCGCTGTGTTGACAAGCCGAGCGCTGCGCGCCCCGAGAACCCTTCTCTGGTGTCTCTGG
 CCTCAGCTGACATCCTGGTGGCCACACTGGTCATGCCCTTTTCGCTGGCCAATGAGCTCATGGCCTACTG
 GTACTTTGGCAAGTGTGGTGTGGTGTGTACCTGGCACTGGACGTGCTCTTCTGCACCTCGTCCATCGT
 CACCTGTGTGCCATTAGCCTGGACCGCTACTGGTCGGTGACGCAAGCGGTAGAGTACAACCTGAAGCGCA
 CGCCACGCGGTGCAAGGCCACCATCGTGGCCGTGTGGCTCATCTCGGCTGTATCTCCTCCCGCCTCT
 CGTCTCTTTCTACCGCCGCCCCAGCGGCCCGCTACCCGCACTGCGGCCTCAACGATGAGACCTGGTAC
 ATCTTGTCTCTGCATAGGCTCCTTCTTCGCGCCCTGCCTCATCATGGGCTGGTCTATGCGCGCATCT
 ACCGCGTGGCCAAGTGCACACGCTACGCTCACGGAGAAACGCGGCCCGCCGGCCCCGACGGCGCGT
 CCCGACCACAGAGAAATGGGTTGGGAAGGCGCGGGGAGAATGGGCATTGCGCGCCCCGCGCACTGAA
 GTGGAGCCGGATGAGAGCAGCGCGCAGAGAGGCGGAGGCGCGGGGAGCGCTGCGCAGAGGAGGACGGC
 GCGAGAGGGTCCGAGGGGGACACGGGCACTGCGGACGACCGGGACCTGGGTTGGCGGCCGAACAGGG
 TGCTCGGACGGCTCTCGGTCTCCAGGCCCGGAGGGCGCCTGTGCGGGCCAGCTCGCGCTCCGTGAG
 TTCTTCTGTGCGTGTGGCGCGGGCGCGCAGCAGTGTGTGCCCGCAAGGTGGCCAGGCGCGCGAGA
 AACGTTACCTTCGTGTTGGCGGTGGTCATGGCGGTTCGTACTGTGCTGGTCCCCTCTTCTTCAG
 CTACAGCCTGTATGGCATCTGCCGTGAGGCTGCCAGCTGCCAGAACCGCTCTTTAAGTTTTCTCTGG
 ATCGGCTACTGCAACAGTTCGCTCAACCCGGTCTATCTACTGTCTTCAATCAGGACTTCAGGCGCTCT
 TCAAGCACATCTCTCCGTAGGAGGAGAAGGGCTTCAGGCAG

AC**GGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA**
 TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

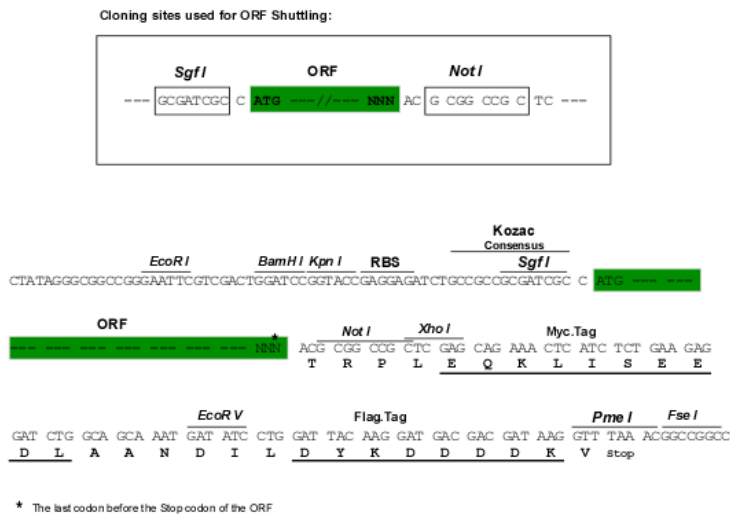
>RR215626 protein sequence
 Red=Cloning site Green=Tags(s)

MASPALAAALAAAAAEGPNGSDAGEWGSGGANASGTDWAPPPGQYSAGAVAGLAAVVGFLLIVFTVVGT
 LVVIAVLTSRALRAPQNLFLVSLASADILVATLVMPFSLANELMAYWYFGQVWCVYALDVLFTSSIV
 HLCALISLDRYWSVTQAVEYNLKRTPRRVKATIVAVWLISAVISFPPLVSFYRRPDGAAYPQCGLNDET
 WYILSSIGSFFAPCLIMGLVYARIYRVAKLRTRTLTEKRGPAAGPDGASPTTENGLGKAAGENGHCAPP
 RTEVEPDESSAAERRRRRGGALRRGRRRREGAEGDTSADGPGPLAAEQGARTASRSPGPGGRLSRASS
 RSVFFLSRRRRARSSVCRKVAQAREKRFTFVLAVVMGVFVLCWFPFFFYSYLYGICREACQLPEPLFK
 FFFWIGYCNSSLNPVIYTVFNQDFRRSFKHILFRRRRRGRFQ

TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-NotI

Cloning Scheme:


ACCN: NM_138506

ORF Size: 1374 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_138506.1, NP_612515.1](#)

RefSeq Size: 1704 bp

RefSeq ORF: 1377 bp

Locus ID: 24175

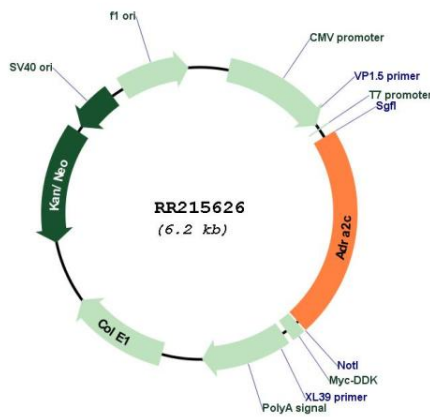
UniProt ID: [P22086](#)

Cytogenetics: 14q21

MW: 49.9 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 RR215626