

Product datasheet for **RN204473**

Adra1b (NM_016991) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adra1b (NM_016991) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Adra1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN204473 representing NM_016991
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATCCCGATCTGGACACCGGCCACAACACATCAGCACCTGCCACTGGGAGAGTTGAAAGATGACA
 ACTTCACTGGCCCAACCAGACCTCGAGCAACTCCACACTGCCAGCTGGACGTACCAGGGCCATCTC
 TGTGGCCTGGTCTGGGCGCCTTCATCCTCTTTGCCATCGTGGGCAACATCTTGGTCATCTGTGGTG
 GCCTGCAACCGGCACCTGCGGACGCCACCAACTACTTTATCGTCAACCTGGCCATTGCTGACCTGCTGT
 TGAGTTTCACAGTACTGCCCTTCTCCGCTACCCTAGAAGTGCTTGGCTACTGGGTGCTGGGGCGCATCTT
 CTGTGACATCTGGGCAGCGGTAGATGTCCTGTGCTGTACGGCCTCCATCCTGAGCCTATGTGCCATCTCC
 ATTGACCGCTACATTGGGGTGCATACTCTGTCAGTACCCACGCTGGTACCCCGAGGAAGGCCATCT
 TGGCGCTCCTCAGTGTGGGTCTGTCCACGGTCATCTCCATCGGGCCTCTCCTTGGATGGAAAGAACC
 TGGCCCAATGATGACAAAGAATGTGGGTCCCGAAGAACCCTTCTACGCCCTCTTTCTCCCTGGGC
 TCCTTCTACATCCCGCTCGCGGTATCCTGGTATGACTGCCGGTCTACATCGTGGCCAAAGAGGACCA
 CCAAGAATCTGGAGGCGGGAGTCATGAAGGAAATGTCCAACCTCCAAGGAGCTGACCTGAGGATCCACTC
 CAAGAACCTTTCATGAGGACACCTCAGCAGTACCAAGGCCAAGGGCCACAACCCAGGAGTTCATAGCT
 GTCAAACCTTTTAAAGTTCTCCAGGGAAAAGAAAGCAGCCAAAACCTTGGGCATTGTAGTCGGAAATGTTCA
 TCTTATGTTGGTCCCCTTCTTCATCGCTCTCCCGCTTGGCTCCCTGTTCTCCACCCTAAAGCCCCGGGA
 CGCCGTGTTCAAGGTGGTGTCTGGCTGGGCTACTTCAACAGCTGCCTCAATCCCATCATCTACCCGTGC
 TCCAGCAAGGAGTTCAGCGCGCCTTCATGCGTATCCTTGGGTGCCAGTGCCGCGGTGGCCGCCCGCC
 GCCGCCGTCCCGTCTAGGCGGCTGCGCTTACACCTACCGGCCGTGGACCCGCGGCGGCTCGCTGGAGAG
 ATCACAGTCGCGGAAGGACTCTCTGGATGACAGCGGCAGCTGCATGAGCGGCAGCCAGAGGACCCTGCC
 TCGGCGTCGCCAGCCCGGGCTACCTGGTTCGAGGAACGCAGCCACCCGTGGAGCTGTGCGCCTTCCCCG
 AGTGAAACCCGGGGCGCTGCTCAGCTTCCAGAGCCTCCTGGCCGCGCGGCGCTCTCGACTCTGGGCC
 ACTCTTACCTTCAAGCTCCTGGGCGATCCTGAGAGCCCGGAACCGAAGGCGACACCAGCAACGGGGGC
 TGGCACCACGACCGACCTGGCCAACGGGCAGCCGGCTTCAAGAGCAACATGCCCTGGCGCCCGGGC
 ACTTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2070_g05.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_016991

Insert Size: 1548 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](#)

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_016991.2](#), [NP_058687.2](#)

RefSeq Size: 2515 bp

RefSeq ORF: 1548 bp

Locus ID: 24173

Cytogenetics: 10q21

Gene Summary: couples with G alpha(h) (transglutaminase II) to activate phospholipase C; facilitates Ca²⁺ release and capacitative Ca²⁺ entry [RGD, Feb 2006]