

Product datasheet for **RR204473**

Adra1b (NM_016991) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR204473 representing NM_016991
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCCCGATCTGGACACCGGCCACAACACATCAGCACCTGCCACTGGGAGAGTTGAAAGATGACA
 ACTTCACTGGCCCAACAGACCTCGAGCAACTCCACACTGCCAGCTGGACGTACCAGGGCCATCTC
 TGTGGGCTGGTCTGGGCGCCTTCATCCTCTTTGCCATCGTGGGCAACATCTTGGTCATCTGTGGTG
 GCCTGCAACCGGCACCTGCGGACGCCACCAACTACTTTATCGTCAACCTGGCCATTGCTGACCTGCTGT
 TGAGTTTCACAGTACTGCCCTTCTCCGCTACCCTAGAAGTGCTTGGCTACTGGGTGCTGGGGCGCATCTT
 CTGTGACATCTGGGCAGCGGTAGATGTCCTGTGCTGTACGGCCTCCATCCTGAGCCTATGTGCCATCTCC
 ATTGACCGCTACATTGGGGTGCATACTCTGTCAGTACCCACGCTGGTACCCCGAGGAAGGCCATCT
 TGGCGCTCCTCAGTGTGGGTCTTGTCCACGGTCATCTCCATCGGGCCTCTCCTTGGATGGAAAGAACC
 TGGCCCAATGATGACAAAGAATGTGGGTACCGAAGAACCCTTCTACGCCCTCTTTCTCCCTGGGC
 TCCTTCTACATCCCGCTCGCGGTATCCTGGTCATGACTGCCGGTCTACATCGTGGCCAAAGAGGACCA
 CCAAGAATCTGGAGGCGGGAGTCATGAAGGAAATGTCCAACCTCAAGGAGCTGACCTGAGGATCCACTC
 CAAGAATTTTATGAGGACACCTCAGCAGTACCAAGGCCAAGGGCCACAACCCAGGAGTTCCATAGCT
 GTCAAACTTTTTAAGTTCTCCAGGAAAAGAAAGCAGCCAAAACCTTGGGCATTGTAGTCGGAAATGTTCA
 TCTTATGTTGGCTCCCCTTCTTCATCGCTCTCCCGCTTGGCTCCCTGTTCTCCACCCTAAAGCCCCGGG
 CGCCGTGTTCAAGGTGGTGTCTGGCTGGGCTACTTCAACAGTGCCTCAATCCCATCATCTACCCGTGC
 TCCAGCAAGGAGTCAAGCGGCCTTATGCGTATCCTTGGGTGCCAGTGCCGCGGTGGCCGCGCGCCG
 GCCGCGTCCCGCTAGGCGGCTGCGCTTACACCTACCGCGGTGGACCCGCGCGGCTCGTGGAGAG
 ATCACAGTCGCGGAAGGACTCTCTGGATGACAGCGGCAGCTGCATGAGCGGCAGCCAGAGGACCTGCC
 TCGGCGTCGCCAGCCCGGGCTACCTGGGTGAGGAACGACGCCACCCGTGGAGCTGTGCCCTTCCCCG
 AGTGAAAACCCGGGGCGCTGCTCAGCTTGCAGAGCCTCTGGCCGCGCGGCGCTCTCGACTCTGGGCC
 ACTCTTACCTTCAAGCTCCTGGGCGATCTGAGAGCCCGGAACCGAAGGCGACACCAGCAACGGGGG
 TGCGACACCAGCAGCCTGGCCAACGGGCGCCGCTTCAAGAGCAACATGCCCTGGCGCCCGGGC
 ACTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204473 representing NM_016991
 Red=Cloning site Green=Tags(s)

MNPDLDTGHNTSAPAHWELKDDNFTGPNQTSNSTLPQLDVTRAI SVGLVLGAFILFAIVGNILVILSV
 ACNRHLRPTNYFIVNLA IADLLL SFTVLPFSATLEVLGYWVLGRIFCDIWA AVDVLCCTASILSLCAIS
 IDRYIGVRYSLQYPTLVTRRKAILALLSVWVLTVISIGPLLGWKEPAPNDKCEGVTEEPFYALFSSLG
 SFYIPLAVILVMYCRVYIVAKRTTKNLEAGVMKEMSNSKELTLRIHKNFHEDTLSSTKAKGHNPRSSIA
 VKLKFKSREKKA AKTLGIVVGMFILCWLPFFIALPLGSLFSTLKPDAVFKVFWLGYFNSCLNPIIYPC
 SSKEFKRAFMRILGCQCRGRRRRRRRRLGGCAYTYRPWTRGGSLEERSQSRKDSLDDSGSCMSGSQRTLP
 SASPSPLYLGRGTQPPVELCAFFPEWKPGALLSLPEPPGRRGR LDSGPLFTFKLLGDPESPGTEGDT SNGG
 CDTTDLANGQP GFKSNMPLAPGHF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

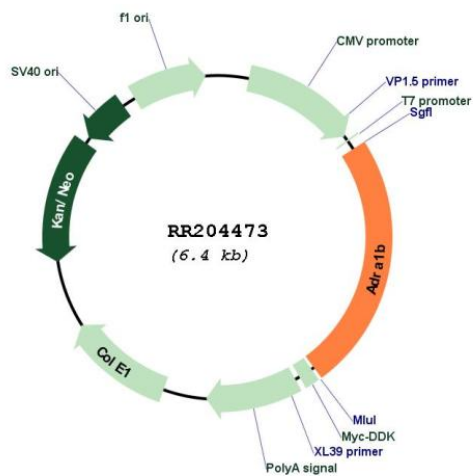
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_016991

ORF Size: 1545 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	<u>NM_016991.2</u> , <u>NP_058687.2</u>
RefSeq Size:	2515 bp
RefSeq ORF:	1548 bp
Locus ID:	24173
Cytogenetics:	10q21
MW:	56.6 kDa
Gene Summary:	couples with G alpha(h) (transglutaminase II) to activate phospholipase C; facilitates Ca ²⁺ release and capacitative Ca ²⁺ entry [RGD, Feb 2006]