

Product datasheet for **RR205135**

Adra1a (NM_017191) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adra1a (NM_017191) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adra1a
Synonyms:	Adra1c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205135 representing NM_017191
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCTTCTCTGAAAATGCTTCGGAAGGCTCCAACCTGCACCCACCACAGCTCCGGTGAACATTT
 CTAAGGCCATTCTGCTTGGGGTATCTTGGGGGCCTCATCATTTTCGGAGTCTGGGGAACATTTTGTG
 GATCCTCTCAGTGGCCTGTCATCGGCATCTGCACTCCGTGACTACTACTACATTGTCAACCTGGCTGTG
 GCAGACCTCCTCCTCACCTCCACTGTGCTGCCCTTCTCTGCCATCTTTGAGATCCTGGGCTACTGGGCT
 TTGGCAGGGTGTCTGCAATATCTGGGCGGCCGTGGACGCTTATGCTGCACAGCGTCCATCATGGGCT
 CTGCATCATCTCCATCGACCGATACATTGGTGTGAGCTACCCGCTGCGCTATCCCACCATTGTCACCCAG
 AGGAGGGCGTCAAGGCTCTGCTCTGCGTCTGGGTGCTTCTTTGGTCATCTCCATCGGACCCCTGTTCC
 GCTGGAGGCAGCCGGCTCCAGAGGATGAGACCATCTGCCAGATCAATGAGGAGCCGGGCTACGTGCTGTT
 CTCAGCGCTGGGCTCTTCTACGTGCCACTGGCCATCATTCTGGTTATGTACTGTGAGTCTACGTAGTA
 GCCAAGAGAGAAAAGCCGGGCTCAAGTCCGGCTCAAGACGGACAAGTCAGACTCAGAGCAAGTGACGC
 TCCGATCCACCGTAAAAATGTCCTGCAGAAGGCGCGGAGTCAGCAGTGCCAAGAATAAGACTCACTT
 CTCAGTGAGGCTGCTCAAGTTTTCTCGAGAGAAGAAAGCTGCCAAGACGCTGGGCATCGTGGTGGTTGC
 TTCGCTCTCTGCTGGCTGCCGTTCTTCTAGTGATGCCATTGGGTCTTCTTCCCGGATTTCAAGCCTT
 CGGAAACCGTTTTTAAATAGTATTTGGCTCGGGTATCTAAATAGTTGCATCAACCCTATCATATACCC
 ATGCTCCAGCCAGGAGTTCAAGAAAGCCTTTCAGAATGTCCTGCGAATCCAGTGTCTTCGAGAAGGCAG
 TCTTCCAAGCATGCCCTGGGCTATACCTGCACCCGCCAGCCAGGCTCTAGAGGGACAGCACAGAGACA
 TGGTGCATATCCCGTGGGCTCGGGAGAGACTTCTATAAGATCTCCAAGACAGATGGAGTCTGTGATG
 GAAGTTTTTCTTCCATGCCCCAGGGATCGGCCAGGATTACAGTGCCAAAGGACCAATCTGCCTGTACC
 ACAGCCCGGGTGAGAAGTAAAAGCTTTTTGCAGGTCTGCTGCTGTGTGGGTCTCGGCCCGCGCCCTG
 AAGAAAATCACCAAGTTCACCATTAAGATCCACACCATCTCCCTCGGTGAAAACGGGGAGGAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205135 representing NM_017191
 Red=Cloning site Green=Tags(s)

MVLLSENASEGSNCTHPPAPVNIKAILLGVILGGLIIFGVLGNIIVILSVACHRHLHSVTHYYIVNLAV
 ADLLLSTVLPFSAIFEILGYWAFGRVFCNIWAADVLCCTASIMGLCIISIDRYIGVSYPLRYPTIVTQ
 RRGVRRALLCVWVLSLVISIGPLFGWRQPAPEDETICQINEEPGYVLFALGFSFYVPLAIIILVMYCRVYVV
 AKRESRGLKSGLKTDKSDSEQVTLRIHRKNVPAEGGGVSSAKNTHFSVRLKFSREKKAATLGIIVVGC
 FVLCWLPFFLVMPISFFPDFKPSSETVFKIVFWLGYLNSCINPIIYPCSSQEFKKAQNVLRIQCLRRRQ
 SSKHALGYTLHPPSQALEGQHRDMVRIPVGSGETFYKISKTDGVCWKFFSSMPQGSARITVPKQDSACT
 TARVRSKSFLLQVCCCVGSSAPRPEENHQVPTIKIHTISLGENGEEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_017191

ORF Size: 1398 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](#)

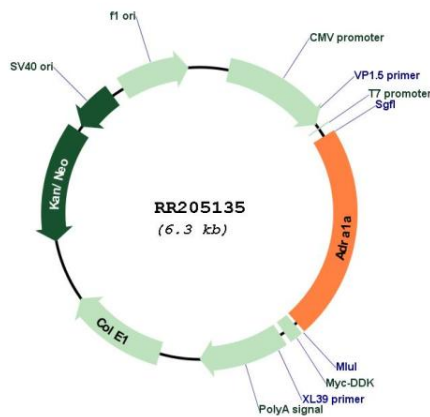
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_017191.2, NP_058887.2](#)
RefSeq Size: 1428 bp
RefSeq ORF: 1401 bp
Locus ID: 29412
UniProt ID: [P43140](#)
Cytogenetics: 15p12
MW: 51.6 kDa
Gene Summary: binds adrenergic compounds and analogs; activates phospholipase C mediated signal transduction [RGD, Feb 2006]

Product images:



Circular map for RR205135