

Product datasheet for **RC224155**

alpha 1a Adrenergic Receptor (ADRA1A) (NM_000680) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1a Adrenergic Receptor (ADRA1A) (NM_000680) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	alpha 1a Adrenergic Receptor
Synonyms:	ADRA1C; ADRA1L1; ALPHA1AAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC224155 representing NM_000680
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGTTCCTCTCGGAAATGCTTCCGACAGCTCCAACCTGCACCAACCGCCGGCACCGGTGAACATTT
 CCAAGGCCATTCTGCTCGGGGTGATCTTGGGGGCCTCATTCTTTTCGGGGTGTGGGTAACATCCTAGT
 GATCCTCTCCGTAGCCTGTCAACGACACCTGCACTCAGTCACGCACTACTACATCGTCAACCTGGCGGTG
 GCCGACCTCCTGCTCACCTCCACGGTGTGCCCTTCTCGCCATCTTCGAGGTCCTAGGCTACTGGGCT
 TCGGCAGGGTCTTCTGCAACATCTGGCGGCAGTGGATGTGCTGTGCTGCACCGCTCCATCATGGGCT
 CTGCATCATCTCCATCGACCGCTACATCGGCGTGAGCTACCCGCTGCGCTACCAACCATCGTCAACCGAG
 AGGAGGGTCTCATGGCTCTGCTCTGCTCTGGGCACTCTCCCTGGTCATATCCATTGGACCCCTGTTCCG
 GCTGGAGGCAGCCGGCCCCGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTT
 CTCAGCGCTGGGCTCCTTCTACCTGCCTCTGGCCATCATCTGGTCATGTACTGCCGCTCTACGTGGT
 GCCAAGAGGGAGAGCCGGGGCTCAAGTCTGGCTCAAGACCGACAAGTCGGACTCGGAGCAAGTGACGC
 TCCGCATCCATCGAAAAACGCCCGGCAGGAGGCAGCGGGATGGCCAGCGCCAAGACCAAGACGCACTT
 CTCAGTGAGGCTCCTCAAGTCTCCCGGAGAAGAAAGCGGCCAAAACGCTGGGCATCGTGGTCCGGCTGC
 TTCGTCCTCTGCTGGCTGCCTTTTTTCTTAGTCATGCCATTGGGTCTTCTTCCCTGATTTCAAGCCCT
 CTGAAACAGTTTTTAAATAGTATTTGGCTCGGATATCTAAACAGCTGCATCAACCCATCATATACCC
 ATGCTCCAGCCAAGATTCAAAAAGGCTTTTCAAGATGTCTTGAATCCAGTGTCTCCGCAGAAAGCAG
 TCTTCAAACATGCCCTGGGCTACACCTGCACCCGCCAGCCAGGCCGTGGAAGGGCAACAAGGACA
 TGGTGGCATCCCGTGGGATCAAGAGAGACCTTCTACAGGATCTCAAGACGGATGGCGTTTGTGATG
 GAAATTTTTCTTCCATGCCCGTGGATCTGCCAGGATTACAGTGTCCAAGACCAATCCTCCTGTACC
 ACAGCCCGGGTGAGAAGTAAAAGCTTTTTGGAGGTCTGCTGCTGTGTAGGGCCCTCAACCCAGCCTTG
 ACAAGAACCATCAAGTCCAACCATTAAGTCCACACCATCTCCCTCAGTGAGAACGGGGAGGAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224155 representing NM_000680
 Red=Cloning site Green=Tags(s)

MVFLSGNASDSSNCTQPPAPVNIKAILLGVILGGLILFGVLGNILVILSVACHRHLHSVTHYYIVNLAV
 ADLLLSTVLPFSAIFEVLGYWAFGRVFCNIWAADVLCCTASIMGLCIISIDRYIGVSYPLRYPTIVTQ
 RRGLMALLCVWALSLVISIGPLFGWRQPAPEDETICQINEEPGYVLFALGSFYPLAIILVMYCRVYVV
 AKRESRGLKSGLKTDKSDSEQVTLRIHRKNAPAGGSGMASAKTKTHFSVRLKFSREKKAATLGIIVVGC
 FVLCWLPFFLVMPISFFPDFKPSSETVFKIVFWLGYLNSCINPIIYPCSSQEFKKAQNVLRIQCLRRKQ
 SSKHALGYTLHPPSQAVEGQHKDMVRIPVGSRETFYRISKTDGVCWKFSSMPRGSARITVSKDQSSCT
 TARVRSKSFLEVCCVGPSTPSLDKNHQVPTIKVHTISLSENGEEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3596_c02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_000680

ORF Size: 1398 bp

OTI Disclaimer: 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_000680.1](#), [NP_000671.1](#)

RefSeq Size: 2290 bp

RefSeq ORF: 1401 bp

Locus ID: 148

UniProt ID: [P35348](#)

Cytogenetics: 8p21.2

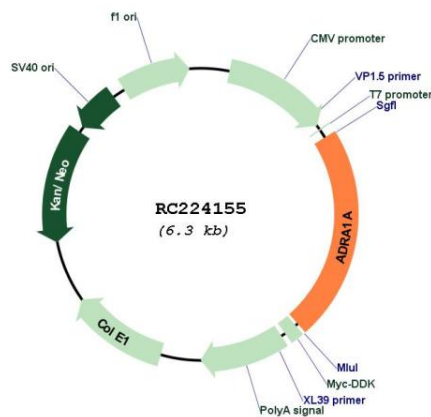
Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction

MW: 51.3 kDa

Gene Summary: Alpha-1-adrenergic receptors (alpha-1-ARs) are members of the G protein-coupled receptor superfamily. They activate mitogenic responses and regulate growth and proliferation of many cells. There are 3 alpha-1-AR subtypes: alpha-1A, -1B and -1D, all of which signal through the Gq/11 family of G-proteins and different subtypes show different patterns of activation. This gene encodes alpha-1A-adrenergic receptor. Alternative splicing of this gene generates four transcript variants, which encode four different isoforms with distinct C-termini but having similar ligand binding properties. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224155