

Product datasheet for **RC211895**

alpha 1d Adrenergic Receptor (ADRA1D) (NM_000678) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1d Adrenergic Receptor (ADRA1D) (NM_000678) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	alpha 1d Adrenergic Receptor
Synonyms:	ADRA1; ADRA1A; ADRA1R; ALPHA1; DAR; dj779E11.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC211895 representing NM_000678
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTTTCGCGATCTCCTGAGCGTCAGTTTCGAGGGACCCCGCCCGGACAGCAGCGCAGGGGCTCCA
 GCGCGGGCGGCGGGGCGAGCGGGCGGCGGCCCCCTCGGAGGGCCCGCGGTGGCGGCGTGCC
 GGGGGGCGGGGCGGCGGGCGGCGGCGTGGTGGGCGCAGGCAGCGGCGAGGACAACCGGAGCTCCGCGGGG
 GAGCGGGGAGCGGGGCGGGCGGCGGCGGACGTGAATGGCACGGCGGCGTGGGGGACTGGTGGTGAAGC
 CGCAGGGCGTGGGCGTGGGCGTCTTCTGGCAGCCTTATCCTTATGGCCGTGGCAGGTAACCTGCTTGT
 CATCTCTCAGTGGCCTGCAACCGCCACCTGCAGACCGTACCAACTATTTATCGTGAACCTGGCCGTG
 GCCACCTGCTGCTGAGCGCCACCGTACTGCCCTTCTCGCCACCATGGAGTTCTGGGCTTCTGGGCT
 TTGGCCGCGCCTTCTGCGACGTATGGGCCCGCGTGGACGTGCTGTGCTGCACGGCCTCCATCCTCAGCCT
 CTGCACCATCTCCGTGGACCGGTACGTGGGCGTGCGCCACTCACTCAAGTACCCAGCCATCATGACCGAG
 CGCAAGGCGGCCCCATCCTGGCCCTGCTCTGGTTCGTAGCCCTGGTGGTGTCCGTAGGGCCCTGCTGG
 GCTGGAAGGAGCCGTGCCCCCTGACGAGCGCTTCTGCGGTATCACCGAGGAGGCGGGCTACGCTGTCTT
 CTCTCCGTGTGCTCCTTCTACCTGCCATGGCGGTATCGTGGTCACTACTGCCCGGTACGTGGTGC
 GCGCGCAGCACCACGCGCAGCCTCGAGGCGGGCGTCAAGCGCGAGCGAGGCAAGGCTCCGAGGTGGTGC
 TGCGCATCCACTGTCGCGGCGGGCCACGGGCGCCGACGGGGCGCACGGCATGCGCAGCGCAAGGGCCA
 CACCTTCCGACGCTCGCTCTCCGTGCGCCTGCTCAAGTTCTCCCGTGAGAAGAAAGCGGCCAAGACTCTG
 GCCATCGTGGGTGTCTTCTGCTCTGCTGGTCCCTTCTTCTTGTCTGCGCTCCGCTCCTTGT
 TCCCGCAGCTGAAGCCATCGGAGGGCGTCTTCAAGGTCACTTCTGGCTCGGCTACTTCAACAGCTCGT
 GAACCCGCTCATCTACCCCTGTTCCAGCGCGAGTTCAAGCGCGCCTTCTCCGTCTCCTGCGCTGCCAG
 TGCCGTGCTCGCGGCGCGCCGCCCTTCTGGCGTGTCTACGGCCACCACTGGCGGGCCTCCACCAGCG
 GCCTGCGCAGGACTGCGCCCGAGTTCGGGCGACGCGCCCGGAGCGCCGCTGGCCCTCACCGCGCT
 CCCCAGCCCCGACCCGAACCCCGAGCAGCCCGAGATGACAGGCTCCGGTCCGCGAGCCGTGAAAGCCA
 CCCAGCGCCTTCCGCGAGTGGAGGCTGCTGGGGCGTTCGGAGACCCACGACCCAGCTGCGCGCCAAAG
 TCTCCAGCCTGTCGCACAAGATCCGCGCCGGGGCGCGCAGCGCGCAGAGGCGAGCGTGCAGCCAGCGCTC
 AGAGGTGGAGGCTGTGCTCCTAGGCGTCCACACGAGGTGGCCGAGGGCGCCACCTGCCAGGCTACGAA
 TTGGCCGACTACAGCAACCTACGGGAGACCGATATT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211895 representing NM_000678
 Red=Cloning site Green=Tags(s)

MTFRDLLSVSFEGRPDSSAGGSSAGGGGSAGGAAPSEGPVAVGGVPGGAGGGGGVVGAGSGEDNRSSAG
 EPGSAGAGGDVNGTAAVGGLVVSAQGVGVVFLAAFILMAVAGNLLVILSVACNRHLQVTNYFIVNLAV
 ADLLL SATVLPFSATMEVLGFWAFGRAFCDVWAAVDVLCCTASILSLCTISVDRYVGVHRSLKYPAMTE
 RKAAAIALLLWVVALVSVGPLLGWKEPVPPDERFCGITEEAGYAVFSSVCSFYLPMAVIVVMYCRVYVV
 ARSTTRSLEAGVKRERKASEVVLRIHCRGAATGADGAHGMRSAGHTRFSSLSVRLKFSREKKAATL
 AIVVGVFVLCWFPPFFVLPGLSLFPQLKPSGVFKVIFWLGYFNVCVNPLIYPCSSREFKRAFLRLRCQ
 CRRRRRRRPLWRVYGHWRASGLRQDCAPSSGDAPPAPLAL TALPDPPEPPGTPEMQAPVASRRKP
 PSAFREWRLGPFRRPTQLRAKVSSLSHKIRAGGAQRAEAACAQRSEVEAVSLGVPHEVAEGATCQAYE
 LADYSNLRETDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8114_h03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_000678

ORF Size: 1716 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_000678.4](#)

RefSeq Size: 2666 bp

RefSeq ORF: 1719 bp

Locus ID: 146

UniProt ID: [P25100](#)

Cytogenetics: 20p13

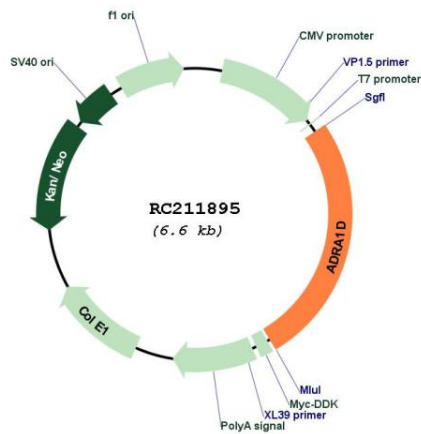
Protein Families: Druggable Genome, GPCR, Transmembrane

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

MW: 60.5 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-1D-adrenergic receptor. Similar to alpha-1B-adrenergic receptor gene, this gene comprises 2 exons and a single intron that interrupts the coding region. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211895