

Product datasheet for **RC220659**

alpha 2b Adrenergic Receptor (ADRA2B) (NM_000682) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 2b Adrenergic Receptor (ADRA2B) (NM_000682) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	alpha 2b Adrenergic Receptor
Synonyms:	ADRA2L1; ADRA2RL1; ADRARL1; alpha-2BAR; ALPHA2BAR; FAME2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC220659 representing NM_000682
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCACCAGGACCCCTACTCCGTGCAGGCCACAGCGGCCATAGCGGGGCCATCACCTTCTCATTC
 TCTTTACCATCTTCGGCAACGCTCTGGTCATCCTGGCTGTGTGACCAGCCGCTCGCTGCCGCCCTCA
 GAACCTGTTCTGGTGTGCTGGCCGCCCGACATCCTGGTGGCCACGCTCATCATCCCTTTCTCGCTG
 GCCAACGAGTGTGGGCTACTGGTACTTCGGCGCACGTGGTGCAGGTGTACCTGGCGCTCGACGTGC
 TCTTCTGCACCTCGTCCATCGTGCACCTGTGCGCCATCAGCCTGGACCGCTACTGGGCCGTGAGCCGCG
 GCTGGAGTAACTCCAAGCGCACCCCGCGCCGCATCAAGTGCATCATCCTCACTGTGTGGCTCATCGCC
 GCCGTATCTCGTGGCCCTCATCTACAAGGGCGACCAGGGCCCCAGCCGCGGGGCGCCCCCAGT
 GCAAGCTCAACCAGGAGCCTGGTACATCCTGGCCTCCAGCATCGGATCTTTCTTTGCTCCTTGCCAT
 CATGATCCTTGTCTACCTGCGCATCTACCTGATCGCCAAACGCAGCAACCGCAGAGGTCCCAGGGCCAAG
 GGGGGGCTGGGAGGGTGGTCCAAGCAGCCCGACCCGACCATGGTGGGGCTTTGGCCTCAGCCAAAC
 TGCCAGCCCTGGCCTCTGTGGCTTCTGCCAGAGAGGTCAACGGACACTCGAAGTCCACTGGGAGAGGA
 GGAGGGGAGACCCTGAAGATACTGGGACCCGGGCTTGCCACCCAGTTGGGCTGCCCTTCCAACTCA
 GGCCAGGGCCAGAAGGAGGGTGTGGTGGGCACTCCAGAGGATGAAGCTGAAGAGGAGGAAGAGGAGG
 AGGAGGAGGAGGAAGAGTGTGAACCCAGGCAAGTGCAGTGTCTCCGGCCTCAGTTGCAGCCCCCGCT
 GCAGCAGCCACAGGGCTCCCGGTGTGGCCACCTACGTGGCCAGGTGCTCCTGGGAGGGCGTGGGT
 GCTATAGGTGGCAGTGGTGGCGTCGACGGGCGCAGCTGACCCGGGAGAAGCGCTTACCTTCGTGCTGG
 CTGTGGTCATTGGCGTTTTGTGCTCTGCTGGTCCCTTCTTCTCAGCTACAGCCTGGGAGCCATCTG
 CCGAAGCACTGCAAGGTGCCCATGGCCTCTTCCAGTTCTTCTTGGATCGGCTACTGCAACAGCTCA
 CTGAACCTGTTATCTACACCATCTTCAACCAGGACTCCGCCGTGCCTCCGGAGGATCCTGTGCCGCC
 CGTGGACCAGACGGCCTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220659 representing NM_000682
 Red=Cloning site Green=Tags(s)

MDHQDPYSVQATAAIAAATFLILFTIFGNALVILAVLTSRSLRAPQNLFLVSLAAADILVATLIIPFSL
 ANELLGYWYFRRTWCEVYLALDVLFTSSIVHLCAISLDRYWAVSRALEYNSKRTPPRIKCIILTVWLIA
 AVISLPLIYKGDQGPQPRGRPQCKLNQEAWYILASSIGSFFAPCLIMILVYLRIYLIAKRSNRRGPRAK
 GPGQGESKQPRPDHGGALASAKLPALASVASAREVNGHSHKSTGEKEEGETPEDTGTALPPSWAALPNS
 GQGQKEGVCGASPEDEAEAAAAAAAAAAAAEPEQAVPVSPASACSPPLQQPQGSRLATLRQVLLGRGVG
 AIGGQWRRRAQLTREKRFVFLAVVIGVFLCWFPPFFSYSLGAICPKHCKVPHGLFQFFFWIGYCNS
 LNPVIYTFNQDFRRRAFRRILCRPWTQTAW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3599_d11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_000682

ORF Size: 1350 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_000682.7](#)

RefSeq Size: 3288 bp

RefSeq ORF: 1353 bp

Locus ID: 151

UniProt ID: [P18089](#)

Cytogenetics: 2q11.2

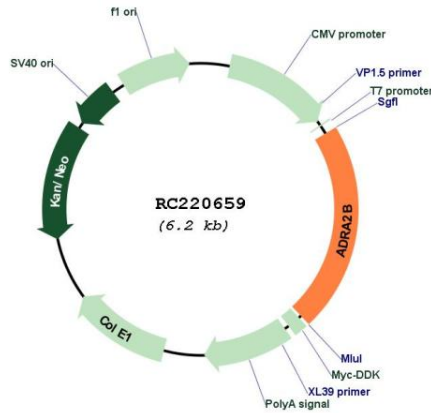
Protein Families: Druggable Genome

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 49.8 kDa

Gene Summary: This intronless gene encodes a seven-pass transmembrane protein. This protein is a member of a subfamily of G protein-coupled receptors that regulate neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RC220659