

Product datasheet for **RC217134**

beta 1 Adrenergic Receptor (ADRB1) (NM_000684) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta 1 Adrenergic Receptor (ADRB1) (NM_000684) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	beta 1 Adrenergic Receptor
Synonyms:	ADRB1R; B1AR; BETA1AR; FNSS2; RHR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC217134 representing NM_000684
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGCGCGGGGTGCTCGTCTGGGCGCTCCGAGCCCGTAACCTGTGTCGCGCCGACCGCTCCCCG
 ACGGCGCGGCCACCGCGCGCGCTGCTGGTGCCCGCTCGCCGCCCGCTCGTTGCTGCCTCCCGCCAG
 CGAAAGCCCCGAGCCGCTGTCTCAGCAGTGACAGCGGGCATGGGTCTGCTGATGGCGCTCATCGTGCTG
 CTCATCGTGGCGGCAATGTGCTGGTGATCGTGGCCATCGCCAAGACGCCGCGGCTGCAGACGCTACCA
 ACCTCTTCATCATGTCCCTGGCCAGCGCCGACCTGGTTCATGGGGCTGCTGGTGGTCCGTTCCGGGCCAC
 CATCGTGGTGTGGGGCCGCTGGGAGTACGGCTCCTTCTTCTGCGAGCTGTGGACCTCAGTGGACGTGCTG
 TGCGTGACGGCCAGCATCGAGACCCTGTGTGTCATTGCCCTGGACCGCTACCTCGCCATCACCTCGCCCT
 TCCGCTACCAGAGCCTGCTGACGCGCGCGGGCGGGGCTCGTGTGCACCGTGTGGCCATCTCGGC
 CCTGGTGTCTTCTGCCCATCCTCATGCACTGGTGGCGGGCGGAGAGCGACGAGCGCGCCGCTGTAC
 AACGACCCCAAGTGTGCGACTTCGTACCAACCGGGCTACGCCATCGCCTCGTCCGTAGTCTCCTTCT
 ACGTGCCCTGTGCATCATGGCCTTCGTGTACCTGCGGGTGTCCGCGAGGCCAGAAAGCAGGTGAAGAA
 GATCGACAGCTGCGAGCGCCGTTTCTCGGCGGCCAGCGCGGCCCGCTCGCCCTCGCCCTCGCCCGTC
 CCCGCGCCCGCGCCGCGCCCGGACCCCGCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCC
 GCGTGCAGGTAAGCGCGCGCCCTCGCGCTCGTGGCCCTGCGCGAGCAGAAGGCGCTCAAGACGCTGGG
 CATCATCATGGCGTCTTACGCTCTGCTGGTGCCTTCTTCTGGCCAACGTGGTGAAGGCTTCCAC
 CGCGAGCTGGTGGCCGACCGCTTCTGCTTCTTCAACTGGCTGGGCTACGCCAACTCGGCCTTCAACC
 CCATCATCTACTGCCGACGCCGACTTCCGCAAGGCCCTCCAGGGACTGCTCTGCTGCGCGCCGAGGC
 TGCCCGCGCGCCACGCGACCCACGGAGACCGCGCGCGCTCGGGCTGTCTGGCCCGCCCGGACCC
 CCGCCATCGCCCGGGCCGCTCGGACGACGACGACGATGTCGTGCGGGCCACGCGCCCGCGCGCC
 TGCTGGAGCCCTGGGCGGCTGCAACGCGGGCGGGCGGCGGACAGCGACTCGAGCCTGGACGAGCCGTG
 CCGCCCGGCTTCGCCTCGGAATCCAAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217134 representing NM_000684
 Red=Cloning site Green=Tags(s)

MGAGVVLGASEPGNLSSAAPLPDGAATAARLLVPASPPASLLPPASESPEPLSQWWTAGMGLLMALIVL
 LIVAGNVLVIVAIAKTPRLQTLTNLFIMSLASADLVMGLLVVFPFATIVVWGRWEYGSFFCELWTSVDVL
 CVTASIELTLCVIALDRYLAIITSPFQYQSLLTRARARGLVCTVWAIISALVSFLPILMHWRAESDEARRCY
 NDPKCCDFVTNRAYAIASSVVSFYVPLCIMAFVYLRVFRQAQKQVKKIDSCERRFLGGPARPPSPSPSPV
 PAPAPPPGPPRPAATAAATPLANGRAGKRRPSRLVALREQKALKTLGIIMGVFTLCWLPFFLANVVKAFH
 RELVPDRLFVFFNWLGYANSFNPFIYCRSPDFRKAQGLLCCARRAARRRHATHGDRPRASGLARPGP
 PPSPGAASDDDDDDVVGATPPARLLEPWAGCNGGAAADSDSSLDEPCRPGFASESKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2502_h12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_000684

ORF Size: 1431 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](#)

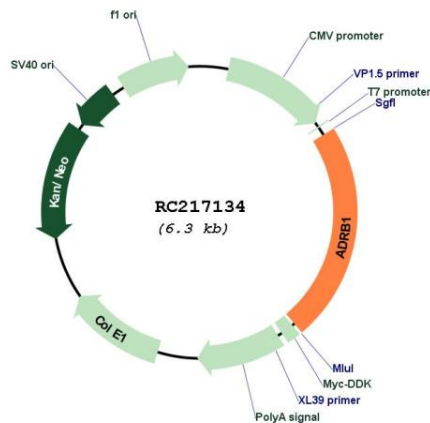
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_000684.3
RefSeq Size:	1723 bp
RefSeq ORF:	1434 bp
Locus ID:	153
UniProt ID:	P08588
Cytogenetics:	10q25.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Dilated cardiomyopathy, Endocytosis, Gap junction, Neuroactive ligand-receptor interaction
MW:	51 kDa
Gene Summary:	The adrenergic receptors (subtypes alpha 1, alpha 2, beta 1, and beta 2) are a prototypic family of guanine nucleotide binding regulatory protein-coupled receptors that mediate the physiological effects of the hormone epinephrine and the neurotransmitter norepinephrine. Beta-1 adrenoceptors are predominately located in the heart. Specific polymorphisms in this gene have been shown to affect the resting heart rate and can be involved in heart failure. [provided by RefSeq, Sep 2019]

Product images:



Circular map for RC217134