

Specifications:

Gene:	hADRB1
Accession:	NP_000675
Insert size:	1447bp
Concentration:	10µg at 0.2µg/µL

hADRB1 cDNA Plasmid

**ADRB1 adrenergic, beta-1-,
receptor [*Homo sapiens*]**

Also known as: RHR; B1AR;
ADRB1R; BETA1AR

Summary:

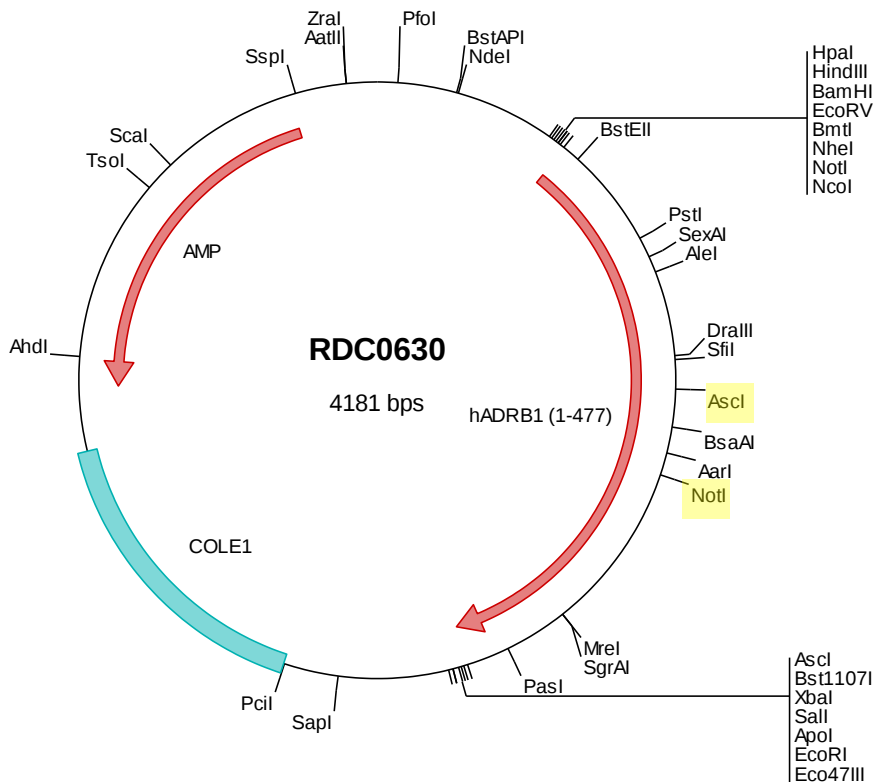
ADRB1 belongs to the G protein-coupled receptor 1 family. The adrenergic receptors, including ADRB1, are a prototypic family of guanine nucleotide binding regulatory protein-coupled receptors that mediate the physiological effects of the hormone epinephrine and the neurotransmitter norepinephrine. ADRB1 binds epinephrine and norepinephrine with approximately equal affinity. ADRB1 is localized at the plasma membrane. It is also found in the Golgi upon Golgi-associated PDZ and coiled-coil motif-containing protein (GOPC) overexpression. Specific polymorphisms in this gene have been shown to affect the resting heart rate and can be involved in heart failure.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



Caution! Internal NotI and AscI sites in this gene.



> RDC0630 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtttggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgattt
401  ggagacgtgt taacaagctt ggaatccgata tcgctagcgc ggccgcacac atggggcggg ggggtgctgt cctggggccc tccgagcccc gtaacctgtc
501  gtccggccgca cgcctccccg acggcgccgc caccgcggcg cggctgtgtg tgccgcgctc gccgcccgcc tegtgtgtgc ctcccgccag cgaaagcccc
601  gagccgctgt ctcagcagtg gacagcgggc atgggtctgc tgatggcgct catcgtgctg ctcatcgtgg cgggcaatgt gctggtgac gtggccatcg
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> RDC0630 Translated Insert Sequence

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201  aesdearrcy ndpkccdfvt nrayaiass vsfyvplcim afvylrvfre aqkqvkkids cerrflggpa rppspspspv papapppgpp rpaaaaatap
301  langragkrr psrlvalreq kalktlgiim gvftlcwlpf flanvvkafh relvpdr1fv ffnwlglyans afnpiiyrcs pdfkrkafgql lccarraarr
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