

Specifications:

Gene:	hCHRNA2
Accession:	NP_000739
Insert size:	1522bp
Concentration:	10µg at 0.2µg/µL

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.

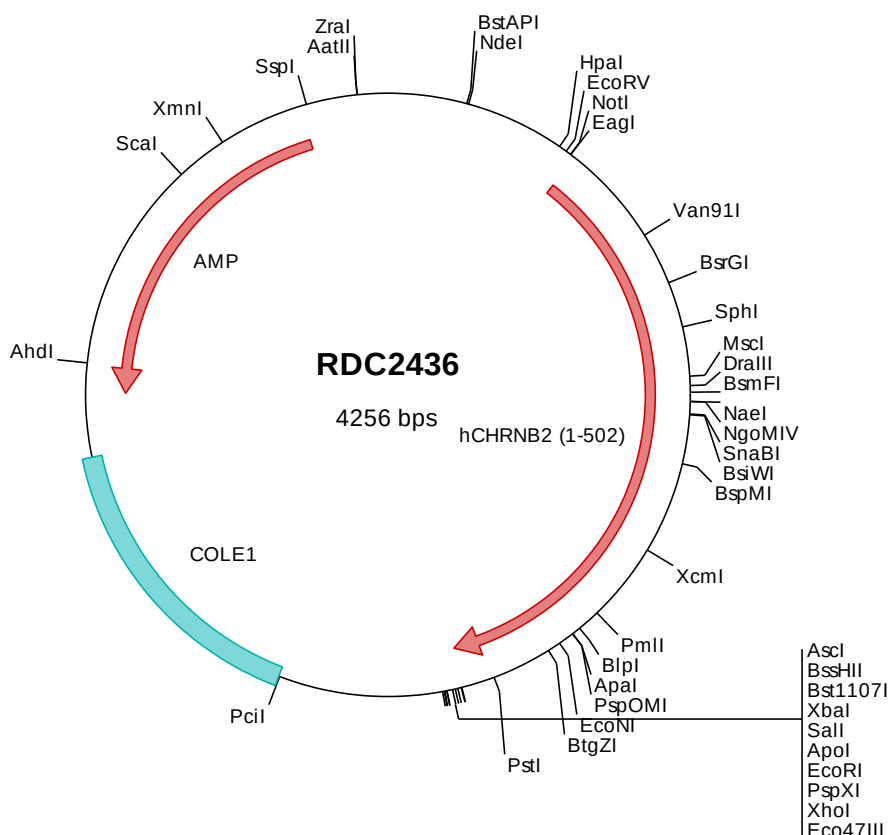
hnAChRB2/CHRNA2 cDNA Plasmid

**CHRNA2 cholinergic receptor
nicotinic beta 2 subunit [*Homo sapiens* (human)]**

Also known as: EFNL3; nAChRB2

Summary:

CHRNA2 is a beta subunit of a neuronal acetylcholine receptor. These receptors are homo- or heteropentameric complexes composed of homologous alpha and beta subunits. They belong to a superfamily of ligand-gated ion channels which allow the flow of sodium and potassium across the plasma membrane in response to ligands such as acetylcholine and nicotine. Mutations in CHRNA2 are associated with autosomal dominant nocturnal frontal lobe epilepsy.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2436 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgtcg caaggcgatt aagtgtggta acgccagggt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
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501  cggctgtgac tcaggggtgt ggggtacgga tacagaggag cggctgttgg agcatctcct ggtaccttcc cgtacaaca agcttatccg ccagccacc
601  aatggctctg agctgggtgac agtacagctt atggtgtcac tggcccgct catcagttgt catgagcggg agcagatcat gaccaccaat gtctgggtga
701  ccagggcgtg ggaagattat cgctcacct ggaagcctga agagtttgac aacatgaaga aagttcggt cccttccaaa cacatctggc tcccgatagt
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901  tacaagagcg catgcaagat tgaagtaaag cacttcccat ttgaccagca gaactgcacc atgaagtcc gttcgtggac ctacgaccgc acagagatcg
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> RDC2436 Translated Insert Sequence

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201  gewdivalpg rrnenpddst yvditydfii rrpplfytin liipcvlls lailvfylys dcgekmtlci svllaltvfl lliiskivppt sldvplvgky
301  lmftmvlvtf sivtsvcvln vhhsptht mapwkvvfl eklpallfmq qprhncarq lrlrrrrrer egagalffre apgadsctcf vnrasvggla
401  gafgaepapv agpggrsgepc gcglreavdg vrfiadhmrs edddqsvsed wkyvamvidr lflwifvfc vfgtigmflq plfqnytttt flhsdhsaps
501  sk

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