

### Specifications:

Gene:	hCHRNA2
Accession:	AAB40109
Insert size:	1602bp
Concentration:	10µg at 0.2µg/µL

## hCHRNA2 cDNA Plasmid

**CHRNA2 cholinergic receptor, nicotinic, alpha 2 (neuronal) [ *Homo sapiens* (human) ]**

### Summary:

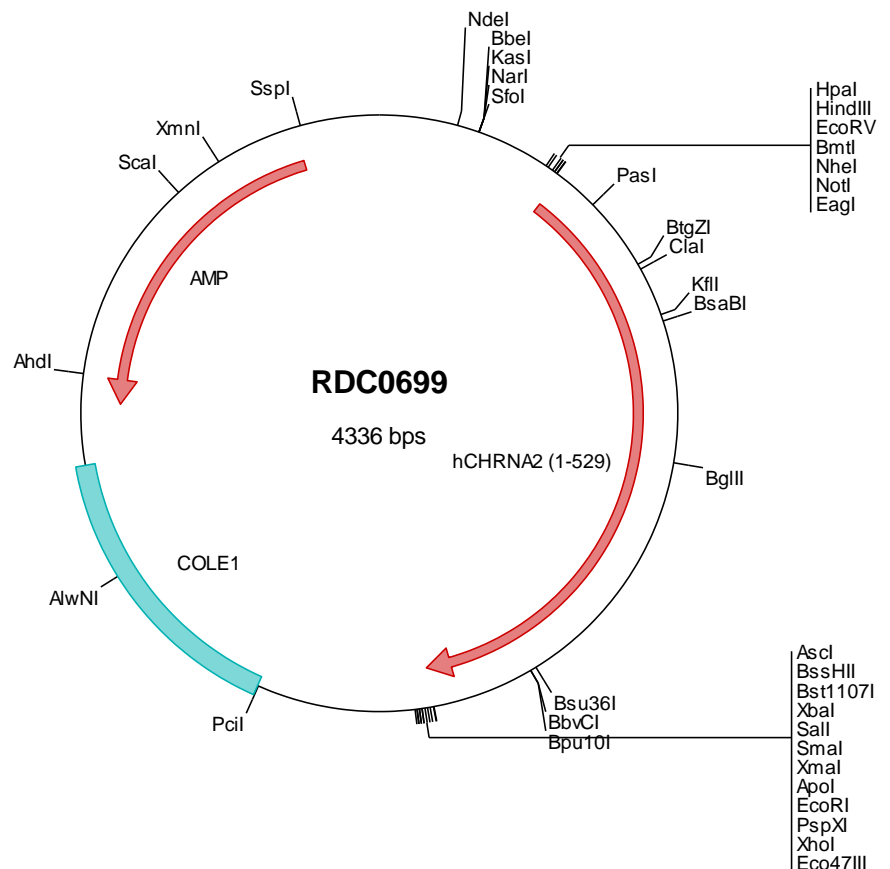
Neuronal receptors are found throughout the peripheral and central nervous system where they are involved in fast synaptic transmission. CHRNA2 is an alpha subunit of nicotinic acetylcholine receptors (nAChRs) that is widely expressed in the brain. Mutations in CHRNA2 cause autosomal dominant nocturnal frontal lobe epilepsy type 4 and have been associated with nicotine dependence.

### 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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0699 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gacgctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gttgtaaata
201 ccgcacagat gcgtaagag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taacggcagct ggcgaaaagg ggatgtgctg caaggcgatt aagtgggta acgccagggt ttcccgatc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacc atgggcccct cctgtcctgt gttcctgtoc ttcaaaaagc tcagcctgtg
501 ttggctcctt ttgaccocag caggtaggaga ggaagctaa gcccaccctc ccagggtctc tggagaccoc ctctcctctc ccagtccocac ggcatggcg
601 caggtaggct cgcataccga gactgaggac cggctcttca aacacctctt ccggggctac aaccgctggg ctgcccgggt gcccaacact tcagacgtgg
701 tgattgtgct ctttggactg tcctatcgctc agctcatcga tgtggatgag aagaaccocaa tgatgaccac caacgtctgg ctaaaaacagg agtggagcga
801 ctacaaaactg cgtggaacc ccgctgattt tggcaacatc acatctctca ggtccctctc tgagatgato tggatccocg acattgttct ctacaacaat
901 gcagatgggg agtttgcagt gacccacatg accaaggccc acctctctc caccggcact gtgactggg tgccccggc catctacaag agctcctgca
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1401 catccocgctc acctocgtgg tcaatccgct caatcgcgag taactcgtgt taccatgctg ctctgtaacc ctgctccatg tcactgctc
1501 aatgtgcaac accgctcccc cagcaccocac accatgcccc actgggtgctg gggggccctt ctgggctgtg tgccccgggt gcttctgatg aaccggcccc
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2001 cggcctcttt gacctcactg tccatgctgg aatgacttga gggcgccocag tataactctag agtcgacacc cggggaattc ctgagcgtct cgtctctagc
2101 ttggcgtaat catggtcata gctggttctt gttgaaatt gttatccgct cacaattcca cacaacatc gagccggaag cataaagtgt aaagcctggg
2201 gtgctaatg agtgagctaa ctcacattaa ttgctgtgct ctcactgccc gcttccctcag cgggaaacct gtcgtgcccag ctgcattaat gaatcggcca
2301 acgcccgggg agaggcggtt tgctatttgg gcgctcttcc gctctcctgc taactgactc cactgctgctg gctgctgccc ctgcccggag ggtatcagct
2401 cactcaaaag cggtaatacgt gttatccaca gaatcagggg ataacgcagg aaagaacatg tgagcaaaa gcccagcaaaa ggccaggaac cgtaaaaagg
2501 ccgcgttctt ggcgtttttc cataggctcc gcccccctga cgagcatcac aaaaatcgac gctcaagtca gaggtggcga aaccggacag gactataaag
2601 ataccagcgg tttcccctct caagctcctc cgtgctctct caactgctc cactgctcctc taaccggatc taccggatc tctcccctc gggaaagcgtg
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3201 cacctagatc cttttaaatt aaaaaatga tttttaaata atctaaaagta tatatagta aacttggtct gacagttacc aatgcttaat cagttaggca
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3601 gtggtgtcac gctcgtgctt ttgtatggct tcaattcagct ccggttccca acgatcaagg cgagttacat gatcccccat gttgtgcaaa aaagcgggta
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3801 cgtaagatgc ttttctgtga gttggtgagta ctcaaccac tcattctgag aatagttgat gggcgacgc agttgctctt gcccgcgctc aatacgggat
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4301 cctataaaaa tagcgctatc acgaggccct ttctgc

> RDC0699 Translated Insert Sequence

1 mgpscpvfls ftklslwll ltpaggeeak rppprapgd p lsspsptalp qggshteted rlfkhlfrgy nrwarvpnt sdvivrfgl siaqlidvde
101 knqmmtnvw lkqewsykl rwnpadfgni tsrlrvpsemi wipdivlynn adgefavthm tkahlfstgt vhwppaiyk sscsidvtfp pfdqncmkk
201 fgswt ydkak idleqmegt dlkdywesge waivnatgty nskkydcae iypdvtyafv irrplfyti nliipcllis cltvlvfylyp sdcgekitle
301 isvllsltvf llliteiips tslviplige yllftmifvt lsivitvfv l nvhhrspsth tmphwvrgal lgcvprwllm nrppppvelc hplrlklsp
401 yhwlesnvda eerevvvee drwacaghva psvgtlclshg hlhsgasgpk aeallqegel llspmqkal egvhyiadhl rsedadssvk edwkyvamvi
501 driflwlfi veflgtiglf lppflagmi