

Specifications:

Gene:	hCHRNE
Accession:	NP_000071
Insert size:	1495bp
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.

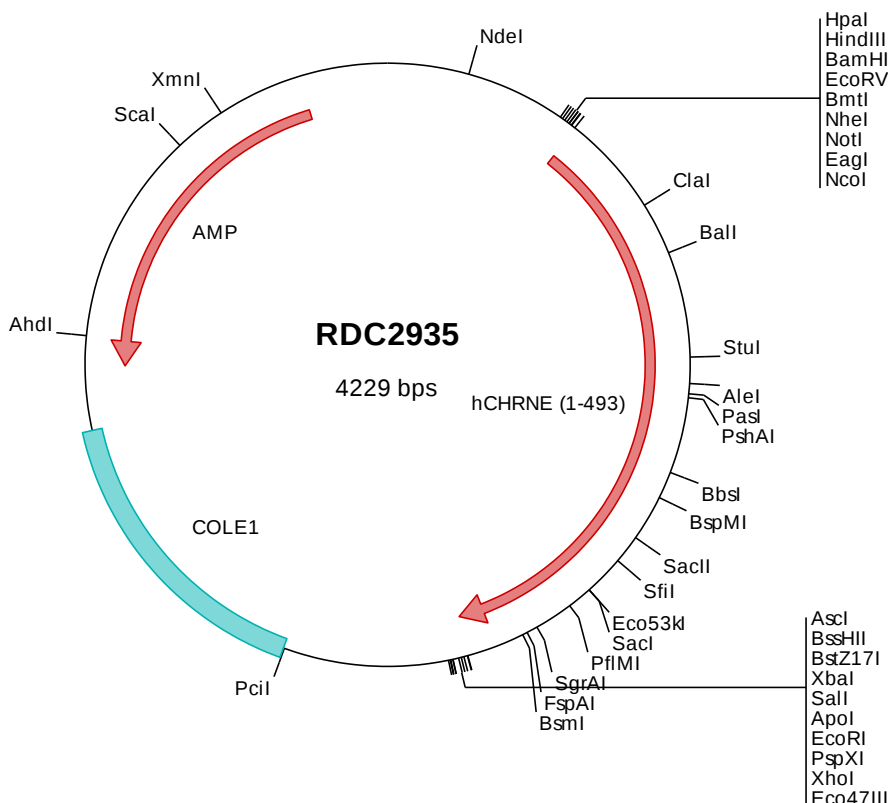
hCHRNE cDNA Plasmid

**CHRNE cholinergic receptor
nicotinic epsilon subunit [*Homo sapiens* (human)]**

Also known as: ACHRE; CMS1D; CMS1E; CMS2A; CMS4A; CMS4B; CMS4C; FCCMS; SCCMS

Summary:

Acetylcholine receptors at mature mammalian neuromuscular junctions are pentameric protein complexes composed of four subunits in the ratio of two alpha subunits to one beta, one epsilon, and one delta subunit. CHRNE is the epsilon subunit. The acetylcholine receptor changes subunit composition shortly after birth when the epsilon subunit replaces the gamma subunit seen in embryonic receptors. Mutations in CHRNE are associated with congenital myasthenic syndrome.



> RDC2935 Plasmid DNA Sequence

```

1  tcgcgcgctt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtc cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggaatgtctg caaggcgatt aagttgggta agccagggtt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggcaaggg ctccgcttgg ggtcctgtct ctcttggggc ttctcggcag
501  ggggtgtgggg aagaacgagg aactgcgtct ttatcaccat ctcttcaaca actatgaccc aggaagccgg ccagtgcggg agcctgaaga tactgtcaac
601  atcagcctca aggtcaccct gacgaatctc atctcaacta atgaaaaaga ggagactctc accactagcg tctggattgg aatcgattgg caggattacc
701  gactcaacta cagcaaggac gactttgggg gtatagaaac cctgcgagtc ccttcagaac cctgttggct gccagagatt gtgtgggaaa acaatattga
801  tggccagcttc ggagtggcct acgacgcaaa cgtgctctgc tacgaggcgg gctccgtgac gtggctgctc cggccatctc accgcagcgt ctgcgcagtg
901  gaggtcacct acttccctct cgattggcag aactgttcgc ttattttccg ctctcagacg tacaatgcgg aagaggtgga gttcaacttt gccgtagaca
1001 acgacggcaa gaccatcaac aagatcgaca tcgacacaga ggccctatac gagaacggcg agtgggcatc cgacttctgc ccgggggtga tccgcgcga
1101 ccacgggtggc gccaccgacg gccacgggga gactgacgtc atctactcgc tcatcatcgg ccggaaagcc ctcttctacg tcattaaacat catogtgccc
1201 tgtgtgctca tctcgggccc ggtgctgctc gcctacttcc tgcggcgcca ggccggcgcc cagaaatgca cggctctcat caacgtctcg ctgcgccaga
1301 cgtcttctct ttctctcatt gccagaaaaa tcccagagac ttctctgagc gtgccgtctc tgggcaaggtt ccttattttc gtcatggttg tcgccacgtc
1401 caattgtcatg aattggctca tcgtgctcaa cgtgtccca cggacgcccc ccacccacgc catgtcccg cgggtgcggc acgttctcct ggagctgctg
1501 ccgcgcctcc ttgggtccccc gccgcgcgcc gagggccccc gggccgcctc gcccccagg cgggcgtctg cgttgggctt attgtctcgc gcggaggagc
1601 tgatacacta aaagcaagg agcagactgc tgtttgaggg gcagagggac cggcagggga atgtgcgcaa tgccttctgc cagagcctgg gccgcgcctc
1701 ccccgaggtgc cgtctgctgt tggatgcctg gaactctgtg gccgagagca cgagagatca ggaggccacc ggcgaggaa gtcgcgactg ggtgcgcatg
1801 gggaatgcc tcgacaacat ctgctcttgg gccgtcttgg tgcctctcag cgtgggctac agcctcatct tctcggggc ctaactcaac agagtgcctg
1901 atctccctca atctccgtgt atccagctt cagtcgcgc cagtatactc tagagtgcac accccgggaa ttctctgagc gctcgtctct agcttggcgt
2001 aatcatgttc atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg aagcataaag tgtaaagcct gggtgctca
2101 atagtgagc taactcacat taattgcgtt cgcctcactg cccgctttcc cgtcactga cctgcctgcg tcggtcgttc ggcgtgtatc agcgttatca
2201 ggagagagcg gtttgcgtat ttggcgtctc cgtcactga cctgcctgcg cctgcctgcg tcggtcgttc ggcgtgtatc agcgttatca
2301 aggcggtaat acggttatcc acagaatcag gggataacgc aggaagaagc atgtgagcaa aaggccagca aaaggccagg aaccgtaaaa aggcgcgtt
2401 gctggcgctt ttccatagcg tccgcccccc tgacgagcat cacaataaat gcagctcaag gacttatcgg gcttaccgga tacctgtccg cctttctccc ttccgggaagc ttgcgcgctt
2501 gcttttcccc ctggaagctc cctcgtgcgc tctctgttcc cgttctgttc agctgtgaggt cgttgcgtcc aagctggggt gtgtgcagca acccccgtt cagcccgacc gctgcgctt
2601 ctcaatgtcc acgctgtagg tatctcagtt cgttctgttc gcttctgcgc gacttatcgg cactggcagg agccactggt aacaggatta gcagagcgag gtagttaggc
2701 atccggtaac tatcgtcttg atctccaaacc ggttaagcac aactacggct aactagagag acactagatt gacagatttt ggtatctgcg ctctgctgaa ttcggaaaaa
2801 ggtgctacag agttcttgaa gtgggtggcct aactacggct aactagagag acactagatt gacagatttt ggtatctgcg ctctgctgaa ttcggaaaaa
2901 gagttgtag ctcttgatcc ggcaaacaaa ccaccgctgg tagcgttggt tttttgttt gcaagcagca gattttggtc atgagattat caaaaaggat cttcacctag
3001 agatcctttt atcttttcta cggggtctga cgtcagtggt aacgaaaaact cagcttaagg gattttggtc atgagattat caaaaaggat cttcacctag
3101 atccttttaa attaaaaatg aagtttttaa tcaatctaaa gtatatatga gtaaaacttg tctgacagtt accaatgctt aatcagtgag gcacctatct
3201 cagcgatctg tctatttctg tcattccatag ttgcctgact ccccgctggt tagataacta cgatacggga gggcttacca tctggcccca gtgctgcaat
3301 gataccgcga gacccacgct caccgctcc agatttatca gcaataaaac agccagccgg aagggccgag cgcagaagtg gtctgcacac tttatccgcc
3401 tccatccagt ctattaattg ttgccgggaa gctagagtaa gtagttccgc agttaaagtg ttgcgcaacg ttgttgccat tgctacaggg atcgtgggtg
3501 cagcgtcgtc gtttggatg gcttcattca gctccggttc ccaacgatca aggcgagtta catgatcccc catgttgtgc aaaaaagcgg ttagctcctt
3601 cggtcctccg atcgtttgca gaagtaagtt ggccgcagtg ttatcactca tggttatggc agcaactgcat aattctctta ctgtcatgcc atccgtaaga
3701 tgcctttctg tgactggtga gtactcaacc aagtcattct gagaatagtg tatgcggcga cagagttgct cttgcccgcc gtcaataacg gataataacc
3801 cgccacatag cagaacttta aaagtgtctc tcattggaaa acgttctctg gggcgaaaaa tctcaaggat cttaccgctg ttgagatcca gttcgatgta
3901 acccactcgt gcacccaact gatcttcagc atcttttact ttcaccagcg tttctgggtg agcaaaaaaca atgcgcgaaa aaagggaata
4001 agggcgacac ggaatgttg aatactcata ctcttctctt ttcaatatta ttgaagcatt tatcagggtt attgtctcat gagcggatac atatttgaat
4101 gtatttagaa aaataaacaa atagggttgc cgcgcacatt tcccggaaaa gtgccacctg acgtctaaga aaccattatt atcatgacat taacctataa
4201 aaataggcgt atcacgagcg cctttcgtc

```

> RDC2935 Translated Insert Sequence

```

1  maraplgvll llgllgrgvv kneelrlyhh lfnnydpgsr pvrepedvtv islkvtltnl islnekeetl tsvwigidw qdyrlnyskd dfvgietlrv
101  pselwlppei vlennidqgf gwaydanvly yeggsvtlwp paiyrsvcav evtyfpfdwq ncslifrsqt ynaeeveftf avdndgktin kididteayt
201  engewaidfc pgvirrhgg atdgpgetdv iysliirrkp lfyviniivp cvlisglvll ayflpaqagg qkctvsinlv laqtvflfli aqkipetsls
301  vpillgrflif vmvvatlivm ncivlrvnsq rtpthhamp rlrhvllell prllgspppp eapraasppr rassvglllr aeelilkpr selvfegqrh
401  rrgtwtaaafc qslgaaapev rccvdavnfv aestrdgeat geevswdvrn gnaldnicfw aalvlfsvgs sliflgayfn rvpdplyapc iqp

```