*h*nAChRβ4/CHRNB4 VersaClone cDNA

Catalog Number: RDC2512

Specifications:

Gene:	*h*CHRNB4
Accession:	NP_000741
Insert size:	1510bp
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.

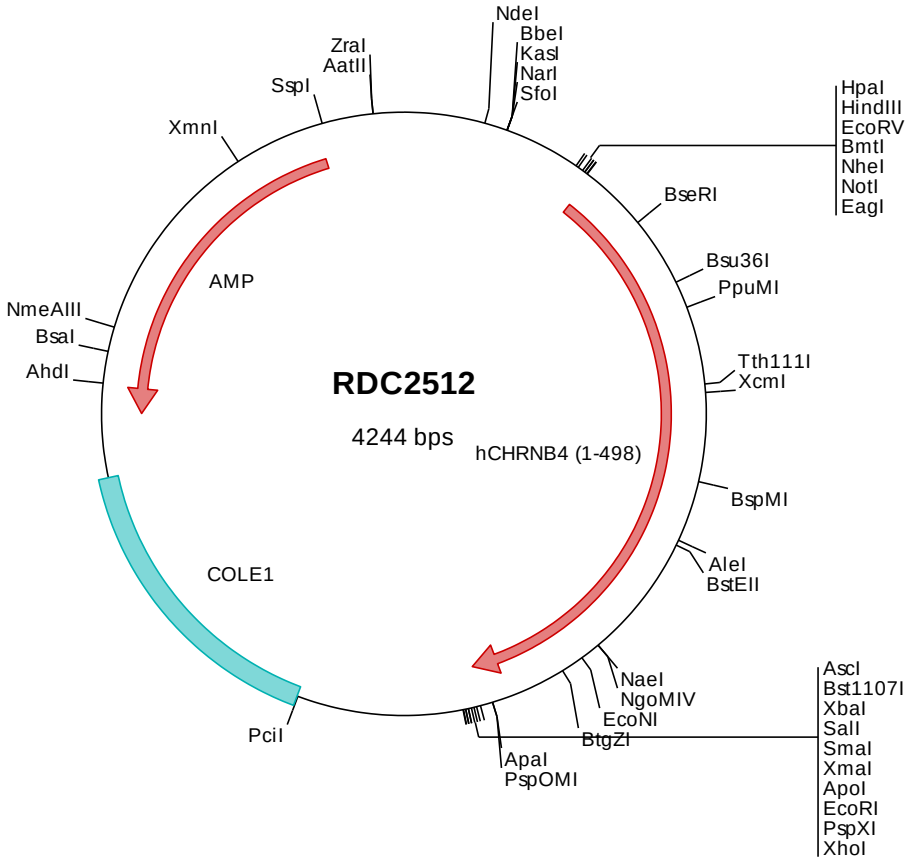
Preparation and Storage

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.

*h*CHRNB4 cDNA Plasmid

CHRNB4 cholinergic receptor nicotinic beta 4 subunit [*Homo sapiens* (human)]

Summary:
CHRNB4 is one of the beta subunits of the nicotinic acetylcholine receptor (nAChRs) superfamily which form ligand-gated ion channels with a central pore that forms a cation channel. Neuronal nAChRs are pentameric structures that can be either homomeric or heteromeric, with heteromeric structures containing both alpha and beta subunits. Each subunit contains an extracellular amino terminus and four transmembrane domains. Nicotine is one of the agonists that binds to the receptor. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

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> RDC2512 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgaggcgcg cgccttccct ggtccttttc ttcctggtcg ccctttgcgg
 501  gcgcgggaac tgccgcgtgg ccaatgcgga ggaaaagctg atggacgacc ttctgaacaa aacccgttac aataacctga tccgcccagc caccagctcc
 601  tcacagctca tctccatcaa gctgcagctc tccctggccc agcttatcag cgtgaatgag cgagagcaga tcatgaccac caatgtctgg ctgaaacagg
 701  aatggactga ttaccgcctg acctggaaca gctcccgcta cgagggtgtg aacatcctga ggatccctgc aaagcgcatc tggttgcctg acatcgtgct
 801  ttacaacaac gccgacggga cctatgaggt gtctgtctac accaacttga tagtccggtc caacggcagc gtcctgtggc tgccccctgc catctacaag
 901  agcgcctgca agattgaggt gaagtacttt cccttcgacc agcagaactg caccctcaag ttccgctcct ggacctatga ccacacggag atagacatgg
1001  tcctcatgac gcccacagcc agcatggatg actttactcc cagtggtgag tgggacatag tggccctccc agggagaagg acagtgaacc cacaagaccc
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1201  atcctcgtct tctacctgcc atccgactgc ggcgagaaga tgacactgtg catctcagtg ctgctggcac tgacattctt cctgctgctc atctccaaga
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1701  tgggaggttc cgacaggatg tgcaggaggc attagaaggt gtcagcttca tcgcccagca catgaagaat gacgatgaag accagagtgt cgttgaggac
1801  tggaagtacg tggctatggt ggtggaccgg ctgttcctgt gggtgttcat gtttgtgtgc gtcctgggca ctgtggggct cttcctaccg cccctcttcc
1901  agacccatgc agcttctgag gggccctacg ctgcccagcg tgattaaagg cgcgccagta tactctagag tcgacacccg gggaattcct cgagcgctcg
2001  tctctagctt ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa
2101  agcctggggt gcctaatgag tgagctaact cacattaatt gcgttgcgct cactgcccgc tttccagtcg ggaaacctgt cgtgccagct gcattaatga
2201  atcggccaac gcgcggggag aggcggtttg cgtattgggc gctcttccgc ttcctcgctc actgactcgc tgcgctcggt cgttcggctg cggcgagcgg
2301  tatcagctca ctcaaaggcg gtaatacggt tatccacaga atcaggggat aacgcaggaa agaacatgtg agcaaaaggc cagcaaaagg ccaggaaccg
2401  taaaaaggcc gcgttgctgg cgtttttcca taggctccgc cccctgacg agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga
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2601  gaagcgtggc gctttctcaa tgctcacgct gtaggtatct cagttcggtg taggtcgttc gctccaagct gggctgtgtg cacgaacccc ccgttcagcc
2701  cgaccgctgc gccttatccg gtaactatcg tcttgagtcc aacccggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag gattagcaga
2801  gcgaggtatg taggcggtgc tacagagttc ttgaagtggt ggcctaacta cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag
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3001  aaaaggatct caagaagatc ctttgatctt ttctacgggg tctgacgctc agtggaacga aaactcacgt taagggattt tggtcatgag attatcaaaa
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3701  atgccatccg taagatgctt ttctgtgact ggtgagtact caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa
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4101  gatacatatt tgaatgtatt tagaaaaata aacaaatagg ggttccgcgc acatttcccc gaaaagtgcc acctgacgtc taagaaacca ttattatcat
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> RDC2512 Translated Insert Sequence

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 201  wdivalpgrr tvnpqdpsyv dvtydfiikr kplfytinli ipcvlttlla ilvfylpsdc gekmtlcisv llaltfflll iskivpptsl dvpligkylm
 301  ftmvlvtfsi vtsvcvlnvh hrspsthtma pwvkrcflhk lptflfmkrp gpdssparaf ppskscvtkp eatatstsps nfygnsmyfv npasaasksp
 401  agstpvaipr dfwlrssgrf rqdvqealeg vsfiaqhmkn ddedqsvved wkyvamvvdr lflwvfmfvc vlgtvglflp plfqthaase gpyaaqrd
```