

## Specifications:

Gene:	hCHRNA5
Accession:	NP_000736
Insert size:	1419bp
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.

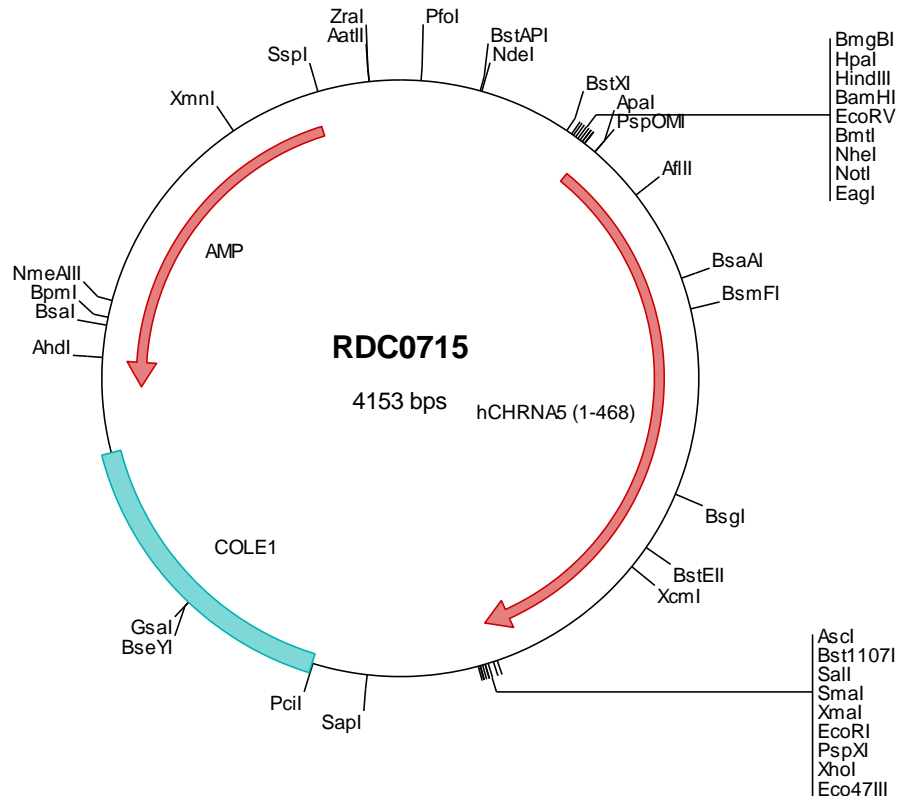
## hCHRNA5 cDNA Plasmid

**CHRNA5 cholinergic receptor, nicotinic, alpha 5 (neuronal) [ *Homo sapiens* (human) ]**

**Also known as:** LNCR2

### Summary:

CHRNA5 is a nicotinic acetylcholine receptor subunit and a member of a superfamily of ligand-gated ion channels. It mediates fast signal transmission at synapses. Nicotinic acetylcholine receptors are thought to be heteropentamers composed of separate but similar subunits. Defects in CHRNA5 have been linked to susceptibility to lung cancer type 2.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0715 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tetggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301 taaggccgct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta accgacgggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tetgtagcgc ggcgcccacc atggcggcgc gggggtcagg gcccgcggcg ctcgcctgc tgctcttggt
501 ccagctggtc gcgggcgctt gcggtctagc gggcgcgcg ggcgcgcgcg agagaggatt atctgaacct tcttctattg caaaacatga agatagtttg
601 ctttaaggatt tatttcaaga ctaogaaaga tgggtctgct ctgtggaaca octgaaagac aaaaataaaa taaaatttgg acttgcaata tctcaattgg
701 tggatgtgga tgagaaaaat cagttaatga caacaaacgt ctggttgaaa caggaaatgga tagatgtaaa ataaagtgg aacctgatg actatggtgg
801 aataaaagt atacgtgttc ctcoagactc tgtctggaca ccagacatgg ttttgttga taatgcagat ggacgttttg aagggaccag tacgaaaaca
901 gtcatcaggt acaatggcac tgtcactcgg actcaccggg caaacataca aagtctcctg accatagatg tcaagttttt cccatttgac cttcagaact
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1301 tetgcacttc agtacttgg tgcttggactg tcttctctt ggttattgaa gagatcatac catcatcttc aaaagtcaata cctctaattg gagagtatct
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1901 gagcgtcgt ctctagcttg gcgtaatcat ggtcatagct gtttctctg tgaattgtt atccgctcac aattccacac aacatacagag ccggaagcat
2001 aaagtgtaaa gcctgggtg cctaataagat gagctaaact acattaattg cgttgcgctc actgcccgtt tccagtcgg gaaacctgtc gtgccagctg
2101 cattaatgaa tcggccaacg cgcggggaga ggcggttgc gatttggcgc ctctccgct tctctgctca ctgactcgtc gcgctcggtc gttcgctgc
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2401 ccgacaggac tataaagata ccaggcgttt cccctcggaa gctccctcgt gcgctctct gtcccgacc tgcgcttac cggatacctg tccgccttct
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2901 gcgcagaaaa aaaggatctc aagaagatcc tttgatctt tctcggggt tctcggggt ctgacgctca gtggaacgaa aactcacgtt aagggatttt
3001 ttatcaaaaa ggatcttcac ctgatcctt ttaaaataaa aatgaagtt taaatcaatc taaagtatat atgagtaaac ttggtctgac agttaccaat
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3601 ctactgtca tgccatccgt aagatgcttt tctgtgactg gtgagtaact aaccaagtca ttctgagaat agtgtatgcg gcgaccgagt tgcctttgcc
3701 cggcgtcaat accggataat acccgccac atagcagaac tttaaaagtg ctcatcagtg gaaacggtt ttcggggcga ttcggttacc ggatctacc
3801 gctgttgaga tccagttcga tgaataccac tctgtcacc aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg
3901 caaaatgccg caaaaaagg aataagggcg acacggaaat gttgaatact catactcttc ctttttcaat attattgaag catttatcag ggtattgtc
4001 tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaaatagg tttccgcga catttccccg aaaagtgcc aactgacgtct aagaaacct
4101 tattatcatg acattaacct ataaaaatag cgtgatcag aggcctttc gtc

> RDC0715 Translated Insert Sequence

1 maargsgpra lrllllvlv agrcglagaa ggaqrglsep ssiakhedsl lkdlfqdyer wvrpvehlnd kikikfglai sqlvdvdekn qlmtnvwlk
101 qewidvklrw npddyggikv irvpsdsvwt pdivlfdnad grfegststkt viryngvtvw tppanykssc tidvtffpfd lqncsmkfgs wtydgsqvdi
201 ileddqvdkr dffdngewei vsatgskgnr tdscwyypv tysfvikrlp lfytlfliip ciglsfltlv vfylypsnege kiclctsvlv sltvfllvie
301 eiiipssskvi pligeylvt mifvtlsimv tvfainihhr sstnhamap lvrkiflhtl pkllcmrshv dryftqkeet esgsgpkssr ntleaalhsi
401 ryitrhimke ndvrevvedw kfiaqvldrm flwtflfvsf vslglfvvp iykwanilip vhignank