

Specifications:

Gene:	hCHRNA7
Accession:	NP_000737
Insert size:	1521bp
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.

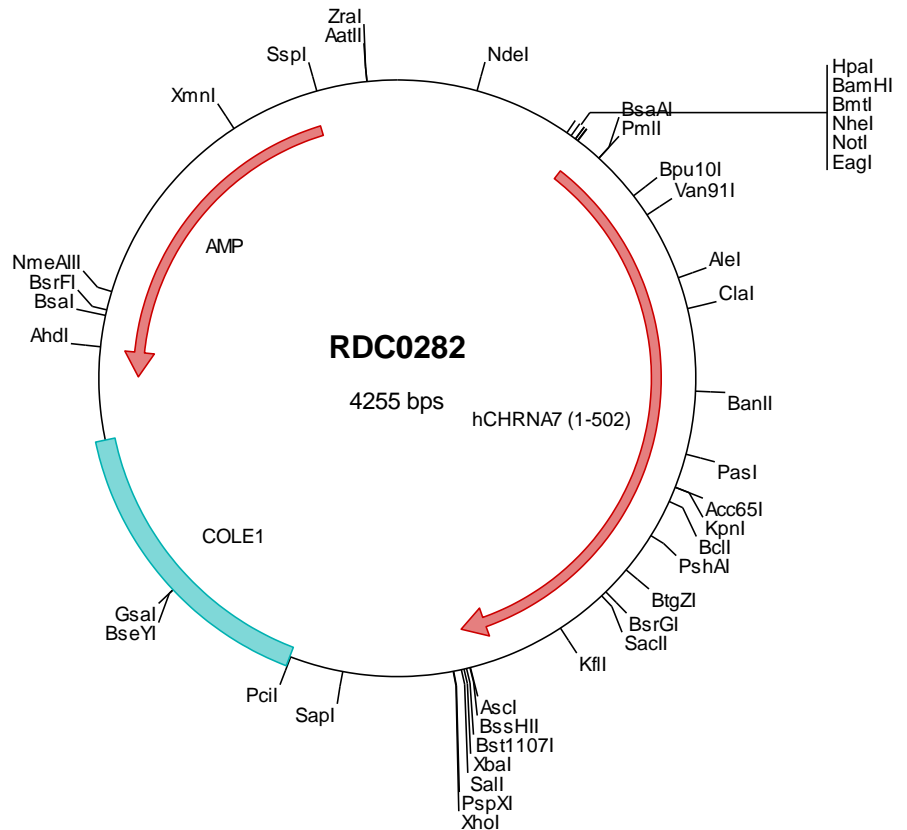
hCHRNA7 cDNA Plasmid

CHRNA7 cholinergic receptor, nicotinic, alpha 7 (neuronal)
[*Homo sapiens*]

Also known as: NACHRA7;
CHRNA7-2

Summary:

The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The nAChRs are thought to be hetero-pentamers composed of homologous subunits. CHRNA7 forms a homo-oligomeric channel, displays marked permeability to calcium ions and is a major component of brain nicotinic receptors that are blocked by, and highly sensitive to, alpha-bungarotoxin. Once CHRNA7 binds acetylcholine, it undergoes an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0282 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tegggtctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gttgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcgggccc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc gggcggcacc atgcgctgct cggcaggagg cgtctggctg gcgctggccc cgtcgtccct
501 gcacgtgtcc ctgcaaggcg agttccagag gaagctttac aaggagctgg tcaagaacta caatcccttg gagaggcccg tggccaatga ctgcgcaacca
601 ctacacogtct acttctccct gagcctcctg cagatcatgg aogtggatga gaagaaccaa gttttaacca ccaacatttg gctgcaaatg tcttggacag
701 atcactatct acagtggaaat gtgtcagaat atocaggggt gaagactggt ogtttccag atggccagat ttggaaccaa gacattcttc tctataacag
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2201 tgcattaatg aatcggccaa cgcgcgggga gaggcgggtt gcgtattggg cgtctctccg cttcctcgtc cactgactcg ctgcgctcgg tctgtcggct
2301 gcggcgagcg gtaacagctc actcaaaaggc ggttaatacgg ttatcccacag aatcagggga taaccagggtc taaccagagc gagcaaaaag ccagcaaaaag
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3001 acgcgagaaa aaaaaggatc tcaagaagat cctttgatct tttctacggg gtctgagcct cagtggaacg aaaactcacg ttaagggtt ttggtcatga
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> RDC0282 Translated Insert Sequence

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101 rfpdggiwkp dillynsade rfdatfhtnv lvnssghcgy lppgikfssc yidvrfpfd vqhcklkfqs wsyggwsl1l qmgeadisgy ipngewdlvg
201 ipgkrserfy ecckepypdv tftvtmrrrt lyyglnllip cvllisalal vfl1padsgc kislgitvll sltvfml1va eimpatsdsv pliaqyfast
301 miivglsvvv tvivlqyhhh dpdggkmpkw trvillnwca wflrmkrpge dkvrpacqhk qrcslasve msavappas ngnllyigfr gldgvhcvpt
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501 fa