

Specifications:

Gene:	<i>h5-HT7</i>
Accession:	NP_000863
Insert size:	1351bp
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.

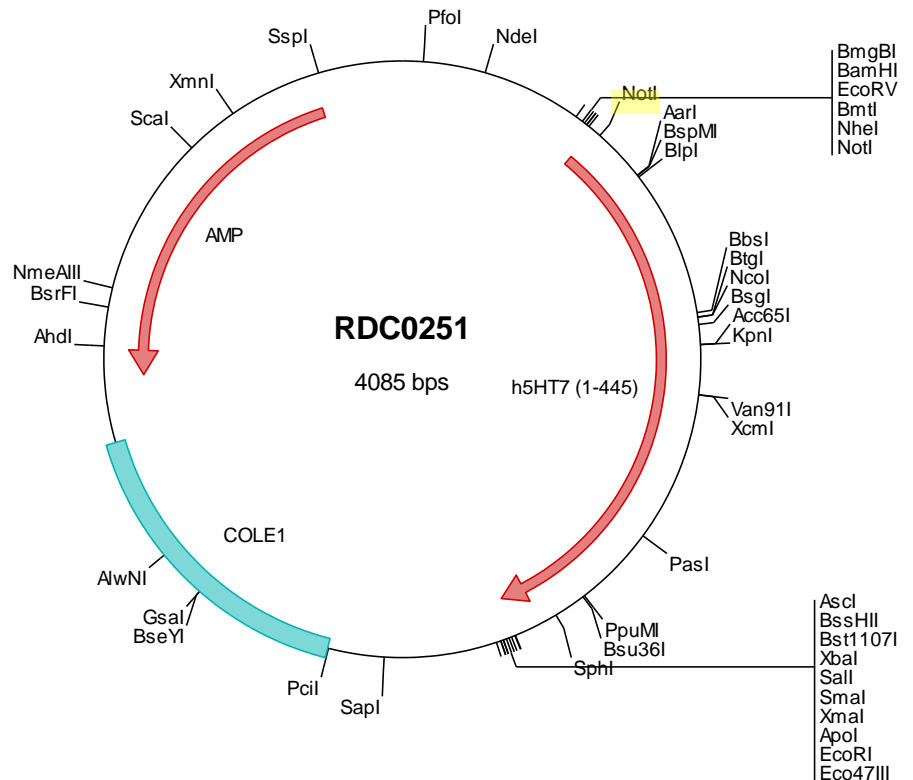
h5-HT7 cDNA Plasmid

HTR7 5-hydroxytryptamine (serotonin) receptor 7, adenylate cyclase-coupled [*Homo sapiens*]

Also known as: 5-HT7

Summary:

The neurotransmitter, serotonin, is thought to play a role in various cognitive and behavioral functions. This isoform (A) is the predominant isoform in spleen, caudate and hippocampus. 5-HT7 isoform B is expressed at lower levels. 5-HT7 belongs to the superfamily of G protein-coupled receptors and the gene is a candidate locus for involvement in autistic disorder and other neuropsychiatric disorders. Pharmacological and genetic tools targeting 5-HT7 in preclinical animal models have implicated this receptor in diverse (patho)physiological processes of the central nervous system (CNS).



Caution! Internal NotI site in this gene.

FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0251 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggta cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tetggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaagag aaaataccgc atcaggcgcc attcgccatt caggctgccc aactgttggg aaggcgatc ggtcgggccc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tetgtagcgc ggcgcgccac atgatggagc ttaacagcag cggccgcccg gacctctacg ggcacctccg
501 ctctttcctt ctgcccagaag tggggcgcg gctgcccgcac ttgagcccgc acggtggcgc cgaccgggto cggggctcct gggcgccga cctgtgagc
601 gaggtgacag ccagcccggc gccaccctgg gaogcgccc cggacaatgc ctccggctgt ggggaacaga tcaactacgg cagagtogag aaagtgtgta
701 tetgctccat cctgacgctc atcacgctgc tgacgatcgc gggcaactgc ctggtgtgta tctccgtgtg cttcgtcaag aagctccgcc agccctocaa
801 ctacctgac gtgtccctgg cgcctggcga cctctcgggt gctgtggcgg tcaatgccc ctgcaagcgtc accgacctca tcgggggcaa gtggatcttt
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1201 cccatgtccg tcatgtcttt catgtaactac cagatttaca aggtcgccag gaagagtgtc gccaaacaca agtttctctg cttccctoga gtggagccag
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1501 ccttcaactc gtggcaactc ctgcaagctgc atcccactgt ggggtggagag gacattctct tggctaggct atgcaaacct tctcattaac ccttttatat
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1901 acaattccac acaacatacg agccggaagc ataaagtga aagcctgggg tgccaatga gtgagctaac tcacattaat tgcgttgcgc tcaactgccc
2001 ctttccagtc gggaaacctg tegtgcagc tgcattaatg aatcggccaa cgcgcgggga gaggcggttt gcgtattggg cgtctctccg cttctcgtc
2101 cactgactcg ctgcgctcgg tctgtcggct cgcgcgagcg gtatcagctc actcaaaagg ggtaatcagc ttatccacag aatcagggga taacgagga
2201 aagaacatgt gagcaaaaag ccagcaaaaag gccaggaacc gtaaaaaggc cgcgttctgt gctgttttcc ataggctccg cccccctgac gagcatcaca
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2401 cctgcccgtt accggatacc tgtcccctt tctccctcgg ggaagcgtgg cgtttctca atgctcaagc tgtaggtatc tcagttcgggt gtgagtcgtt
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3901 atattattga agcatttatc aggtttattg tctcatgagc ggatacatat ttgaattgat ttagaaaaat aaacaatag ggttccgcg cacatttccc
4001 cgaaaagtgc cacctgacgt ctaagaaac atattatca tgacattaac ctataaaat agcgtatca cgaggccct tcgtc

> RDC0251 Translated Insert Sequence

1 mmdvnssgrp dlyghlrsfl lpevgrglpd lspdggadpv agswaphlls evtaspaptw dappdnasgc geqinygrve kvvigsiltl itlltiagnc
101 lvvisvcfvk klrqpsnyli vslaladlsv avavmpfvsv tdliggkwif ghffcnvfia mdvmcctasi mtlcvisidr ylgitrplty pvrqngkema
201 kmilsvwlls asitlplflg waqnvnddkv clisqdfygt iystavafyi pmsvmlfmy qiykaarksa akhkfpgfpr vepdsvialn givklqkeve
301 ecanlsrllk herknisifk reqkaattlg iivgafvtcw lpffllstar pficqtspsc iplwvertfl wlgyanslin pfiyaffnrd lrtyrsllg
401 cqyrnirkl saagmhealk laerperpef vlqnadycrk kghds