

Specifications:

Gene:	<i>h5-HT7</i>
Accession:	NP_062874
Insert size:	1312bp
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.

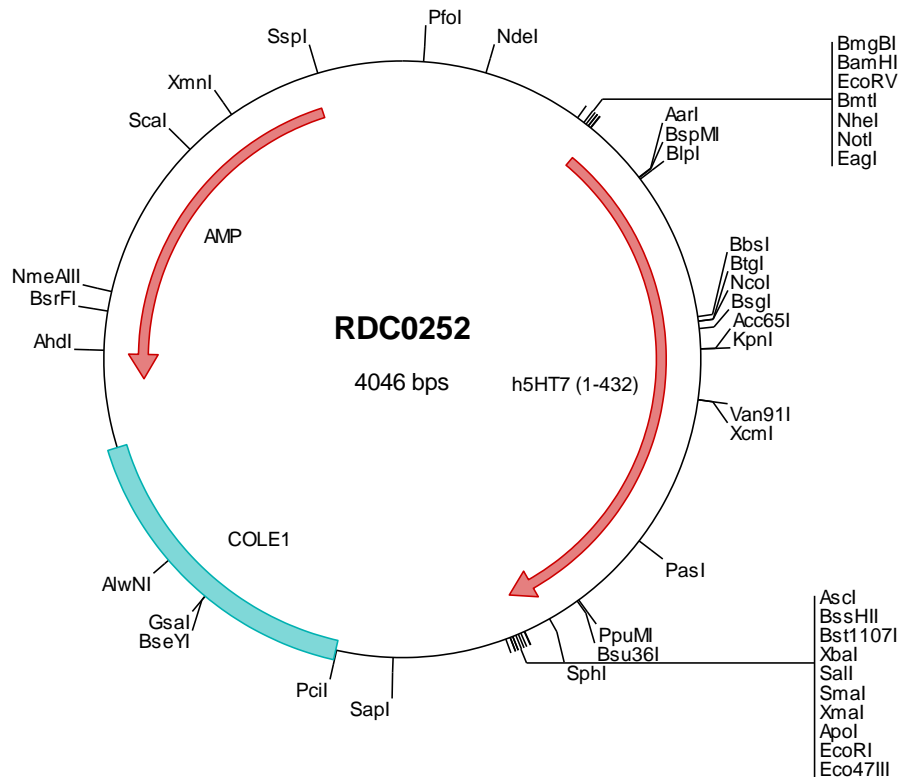
h5-HT7 cDNA Plasmid

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. 5-HT7 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).



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0252 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tetggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201 ccgcacagat gcgtaagag aaaataccgc atcaggcgcc attcgccatt caggctgctgc aactgttggg aaggcgatc ggtcgggcc tcttcgctat
301 taaggcagct ggcgaaagg ggaatgtctg caaggcgatt aagtgggta acgcccgggt ttccagctc acgacgtgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggaatccgata tcgctagcgc gggcgcacc atgatggagc ttaacagcag cggacgccc gacctctacg ggcacctccg
501 ctcttctcct ctgccaagaag tggggcgcg gctgcccgcac ttgagccccg acggtggcgc cgaccggctc ggggctcct gggcgcgca cctgtgagc
601 gaggtgacag ccagcccggc gccaccctgg gaogcgcacc cggacaatgc ctccgctgt ggggaacaga tcaactacgg cagagtogag aaagtgtga
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1901 aaagcctggg gtgctcaatg agtgagctaa ctcacattaa ttgctgtgg cctcactgcc gcttccagct cgggaaacct gctgtgcccag ctgcattaat
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3901 cggatacata tttgaatgta tttagaaaaa taacaaaata ggggttccgc gcacatttcc ccgaaaagt ccacctgagc tctaagaaac cattattatc
4001 atgacattaa cctataaaaa taggcgtatc acgagccct tctctc

> RDC0252 Translated Insert Sequence

1 mmdvnssgrp dlyghlrsfl lpevgrglpd lspdggadpv agswaphlls evtaspaptw dappdnasgc geqinygrve kvvigsiltl itlltiagnc
101 lvvisvcfvk klrqpsnyli vslaladlsv avavmpfvsv tdliggkwif ghffcnvfia mdvmcctasi mtlcvisidr ylgitrply pvrqngkcmca
201 kmilsvlls asitlplfg waqnvndkv clisqdfgyt iystavafyi pmsvmlfmy qiykaarksa akhkfpgfpr vepdsvialn givklqkeve
301 ecanlsrllk herknisifk reqkaattlg iivgaftvcw lpfllstar pficgtsccs iplwvertfl wlgyanslin pfiyaffnrn lrtyrsllg
401 cqyrnirkl saagmealk laerperpef vl