

Specifications:

Gene:	<i>h</i> HRH3
Accession:	NP_009163
Insert size:	1351bp
Concentration:	10µg at 0.2µg/µL

*h*Histamine H3R cDNA Plasmid

HRH3 histamine receptor H3
[*Homo sapiens*]

Also known as: HH3R; GPCR97

Summary:

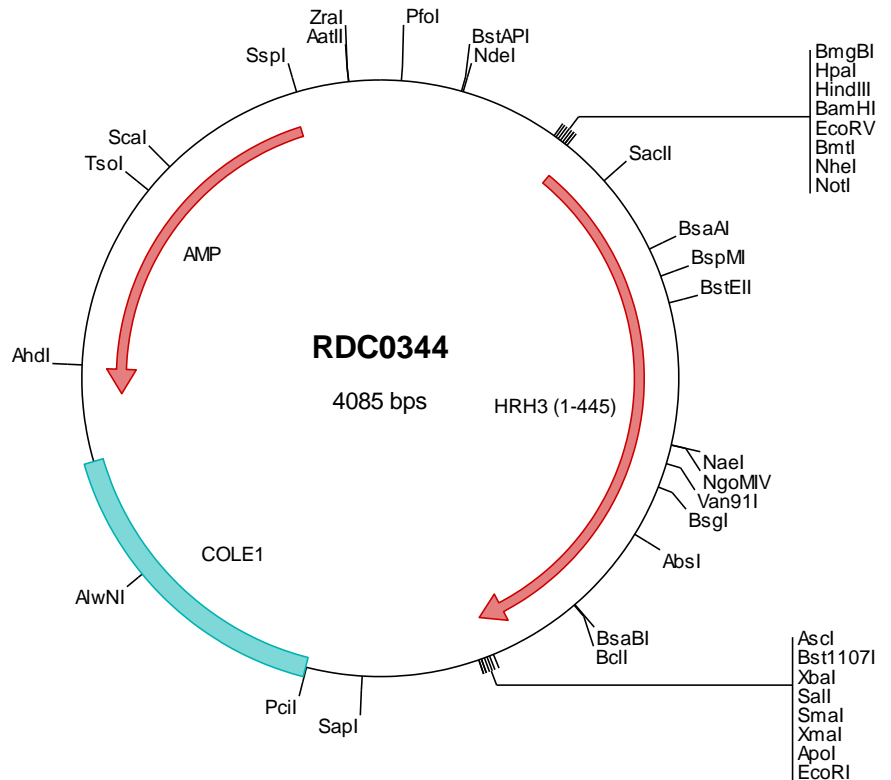
Histamine is a ubiquitous messenger molecule released from mast cells, enterochromaffin-like cells, and neurons. Its various actions are mediated by histamine receptors HRH1, HRH2, HRH3 and HRH4. HRH3 encodes one of the histamine receptors (H3) which belongs to the family 1 of G protein-coupled receptors. HRH3 is an integral membrane protein and can regulate neurotransmitter release. It can also increase voltage-dependent calcium current in smooth muscles and innervates the blood vessels and the heart in cardiovascular system.

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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0344 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tetggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201 ccgcacagat gcgtaagag aaaataaccg atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301 taaggcagct ggcgaaagg ggaatgctg caaggcgatt aagtgggta acggcagggt ttccagtc acgacgtgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tetgtagcgc ggccgccacc atggagcgcg cggcccccga cgggcccgtg aacgcttogg gggcgtggc
501 gggcgagcgc ggcgcgcgcg gcgggcgcg cggtctctcg gcagcctgga ccgcggtgct ggcccgctc atggcgctgc caagcttogg cacggtgctg
601 ggcaacgcgc tggtoatgct cgcctctgct gcgactcga gctccgcac ccagaacaac ttctctctgc tcaacctcgc catctccgac ttctctctg
701 gcgcctctct catccactg tatgtaccct acgtgctgac aggcgcgtg accttcggcc ggggcctctg caagctgtgg ctggtagtgg actacctgct
801 gtgcaacctc ctgacctca acaatgctg catcagctac gaccgcttcc tgtcgtcacc cagagcgtgc tcaatccggg ccaagcaggg tgacaagcgg
901 cgggcaagtgc ggaagatgct gctggtgctg gtgctggcct tctctgctgta cggaccagcc atctgagct gggagtaact gtcggggggc agctccatcc
1001 ccgagggcca ctgctatgcc gagttcttct acaactgcta cttctctacc acggcttcca cctggagtt ctttacgcc ttctctcagc taaccttctt
1101 taacctcagc atctactga acatccagag gcgccccgc ctccggctgg atggggctcg agaggcagcc ggccccgagc cccctccga ggccccagcc
1201 tcaaaccccc caccgctgg ctgctggggc tgtctggcaga aggggacagg ggaggccatg ccgctgcaca ggtatggggg gggtagggcg gccgtaggcg
1301 ctgaggccgg ggaggcgacc ctccgggggt gcggtggggg cggctccgtg gcttcaacca cctccagctc cggcagctcc tcgaggggca ctgagaggcc
1401 gcgctcactc aagaggggct ccaagcgtc ggctcactgg agaagcgcat gaagatgggt tcccagagct tcaaccagcg cttctggctg
1501 tctcgggaca ggaagtgct caagtctgt gcgctcactg tgagcacttt tgggctctgc tgggccccat acacgctgct gatgatcact cgggcccgtc
1601 gccatggcca ctgctccct gactactggt acgaaacctc cttctggctc ctgtgggcca actcggctgt caacctgtc ctctacctc tgtgccacca
1701 cagcttccgc cgggacctca ccaagctgct ctgcccccaag aagctcaaaa tccagcccca cagctccctg gagaactgct ggaagtaaaag gcgcgccagt
1801 atactctaga gtcgacaccc ggggaattcc tcgagcgtc tctctagct tggcgtaatc atggtcatag ctgtttctct tgtgaaattg ttatccgctc
1901 acaattccac acaacatagc agccggaagc ataaagtta aagcctgggg tgccaatga gtgagctaac tcacattaat tgcgttgcgc tcaactgccc
2001 ctttccagtc gggaaacctg tcgtgccagc tgcattaatg aatcggccaa cgcgcgggga agggcggttt gcgtattggg cgtctctccg cttctctgct
2101 cactgactcg ctgcgctcgg tctgtcggct gcggcgagcg gttactcagct actcaaaagg ggtaatcagc ttatccacag aatcagggga taacgaggga
2201 aagaacatgt gagcaaaaag ccagcaaaaag gccaggaacc gtaaaaaggc cgcgttctgt gcgtttttcc ataggctccg cccccctgac gagcatcaca
2301 aaaaatcgac ctcaagtcag aggtggcgaa acccgacaggg actataaaga taccagcgct ttccccctgg aagctccctc gtcgctctc ctgttccgac
2401 cctgcccgtt accggatacc tgtcccctt tctccctctg ggaagcgtgg cgtttctca atgctcaagc tgtaggtatc tcagttcggg gtgaggtcgt
2501 cgctccaagc tgggctgtgt gcacgaacct cccgttccag ccgaccgctg cgccttatcc ggtaactatc gtcttgatc caaccggta agacacgact
2601 tatcgccact ggcagcagcc actggttaaca ggattagcag agcgaggtat gtaggcggtg ctacagagtt ctggaagtgg tggcctaact acggtacac
2701 tagaaggaca gtatttggta tctgcccctc gctgaagcca gttacttgg gaaaagagtt tggtagctct tgatccggca acaaaaccac cgtctgtagc
2801 ggtggttttt ttggttgcga gcagcagatt acgcccagaa aaaaaggatc tcaagaagat cttttgatct tttctacggg gctgacgct cagtggacg
2901 aaaaactcac ttaaggatt ttggtcatga gattatcaaa aaggtatctt acctagatcc ttttaatta aaaaatgaagt ttttaataca tctaaagtat
3001 atatgagtaa acttggctctg acagttacca atgcttaatc agtgaggcac ctatctcagc gatctgtcta tttcgttcat ccatagttgc ctgactcccc
3101 gtcgtgtaga taactacgat acgggagggc ttaccatctg gccccagctg tgcaatgata ccgagagacc cacgctcacc ggtccagat ttatcagcaa
3201 taaaaccagc agccggaagg gccgagcgca gaagtgttcc tgcaacttta tccgcctcca tccagctcat taattgttgc cgggaagcta gagtaagtag
3301 ttocccagtt aatagtttgc gcaacggttgt tgccattgct acaggcatcg tgggtgcaag ctctcgtt ggtatggctt cattcagctc cggttcccaa
3401 cagtaaacgc gagttacatg atccccatg ttgtgcaaaa aagcggttag ctctctcgtg gtaagatgct tttctgtgac tgggtgagta tcaaccaagt cattctgaga
3501 ctactcaggt tatggcagca ctgcataatt ctctactgt catgccatcc gtaagatgct ataccgccc acatagcaga actttaaaag gtctcatcat tggaaaagct
3601 atagtgtatg cggcgaccga gttgctcttg ccggcgctca ataccgggata ataccgccc acatagcaga actttaaaag gtctcatcat tggaaaagct
3701 tcttcggggc gaaaactcga aaggatctta ccgctgttga cgcagcagttc gtagtaacc cactcgtgca ccaactgac ttcagcatc ttactttca
3801 ccagcgtttc tgggtgagca aaaaacagaa ggcaaaatgc cgcaaaaagg ggaataagg cgcacaggaa atgttgaata ctactactc tctttttca
3901 atattattga agcattatc aggttattg tctcatgagc ggatacatat ttgaatgtat ttgaaaaat aaacaatag ggttccgcg cacatttccc
4001 cgaaaagtgc cacctgacgt ctaagaaac atattatca tgacattaac ctataaaat agcgtatca cgaggccct tcgtc

> RDC0344 Translated Insert Sequence

1 merappdgp1 nasgalagea aaaggargfs aawtavlaal mallivatvl gnalvmlafv adsslrtqnn flllnlaisd flvgafcipl yvpyvltgrw
101 tfrgrlcklw lvvdyltcts safnivilisy drflsvtrav syraqqgdr ravrkmllvw vlaflllygpa ilsweylsgg ssipeghcya effynwyfli
201 tastlefft flsvtffnls iylniqrtr lrlldgareaa gpepppeaq spppppgcw cwqkghgeam plhrygvgea avgaeageat lggggggsv
301 asptsssgss srgterprsl krgskpsass aslekrmkmv sqsftqrfl sdrdrkvaksl avivsfglc wapytllmii raachghcvp dywetsfwl
401 lwansavnpv lyp1chhsfr raftkllcpq klkiiqphssl ehcwk