

Specifications:

Gene:	mHCRTR1
Accession:	NP_945197
Insert size:	1264bp
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.

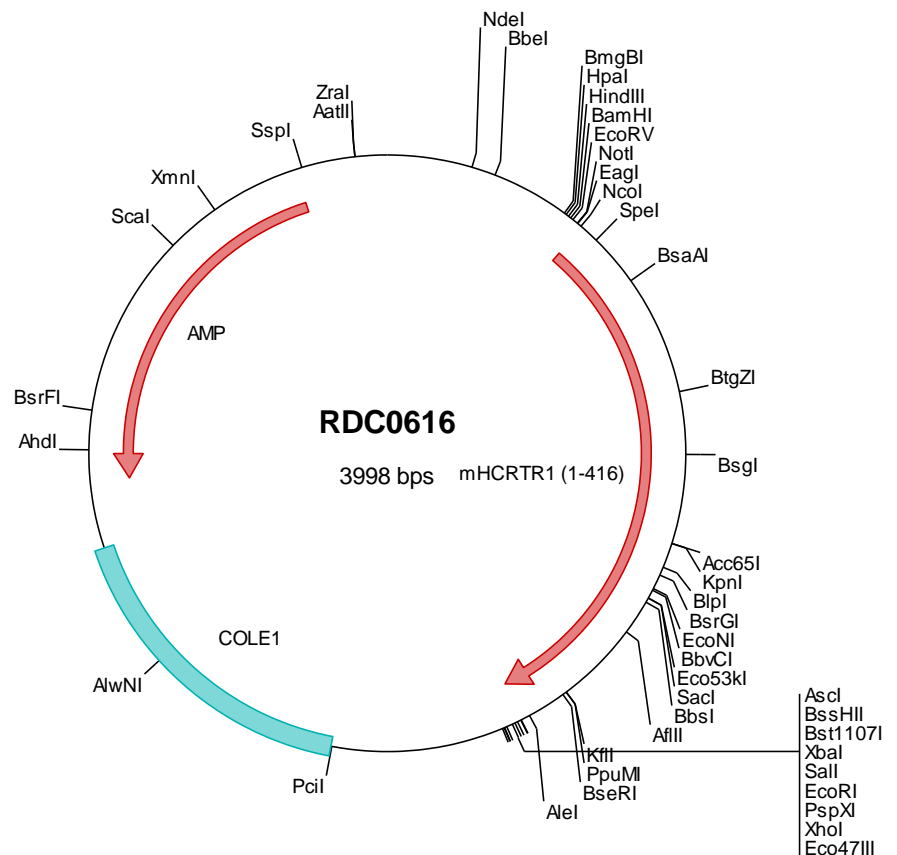
mOrexin R1/HCRTR1 cDNA Plasmid

Hcrtr1 hypocretin (orexin) receptor 1 [*Mus musculus* (house mouse)]

Also known as: Ox1r

Summary:

Orexins are neuropeptides involved in the regulation of the sleep-wake cycle, feeding and reward. They act via activation of orexin receptors 1 and 2 (HCRTR1, HCRTR2). The last 10 amino acids of HCRTR1 interacts with the C-terminal region of the dynein light chains Tctex-type 1 and 3 (Dynlt1, Dynlt3). It has been suggested that Dynlt1 modulates orexin signaling by regulating HCRTR1, namely its intracellular localization following ligand-induced internalization.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0616 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcgggccc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acggcagggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggaacctc cggccactcc tggggcccag cctggagtcc ccactagtag
501 tggggaaacc ttccatttgc ctccagacta tgaggacgag ttccctccgat acctgtggcg cgattatctc taccogaagc agtacgagtg ggttctcaat
601 gcagcctaog ttggtgtggt cctcatagcc ttggtgggca ataccctggt ctgctggctg gtgtggcgga accaccacat gaggacagtc accaactact
701 tcattgtcaa cctgtccctg gcagatgtgc ttggtactgc catctgcctg cctgccagcc tgttagtgga catcaccgag tctgtgctct tcggccagcg
801 ttgttgcaag gtcattccct atctccaggc ttgttcggtg tcaagtggcag ttctgactct cagcttcaat gccctggacc gctgggatgc catotgccc
901 ccaactgtgt tcaagagcac agctcgcctg gccctggctt coactcctgg catctgggct gtgtcctggt ctgtcatggt gccccaggct gctgtcatgg
1001 agtgcagcag cgtgtcctc gagctagcca atogcaccgg gctctctctc gtctgtgatg agcactgggc agatgaactc taccocaaga tctatocacg
1101 ctgcttttcc attgtcaact acctggcccc actgggctcc tctctcagcg ctgctctcta gcttggcgta atcatggtca tagctgtttc ctgtgtgaaa
1201 acatcagcct tggtcgggaa ctggaaaacg cctccggaac aactggaggc tcagcaaccg ggctctgta cagagcccca gccccgggcc cgagccttcc
1301 tggctgaggt gaagcagatg cgagctcgga ggaagacggc taagatgctg atggtagtc tgctggtttt tgactctgt tatctgcca tcagtgtctc
1401 caatgtcctt aagagagtgt tcgggatgtt ccgccaagcc agcagccgga aagccgtcta cctatttcca gatcttccgc aagctctggg gccccagat cctggtaacc
1501 agtgcgcca accctatcat ctacaacttc ctcaagtggca aattccggga gcagtcaag gtgtcctctc cctgtcctc gccctggctg ggtcccggct
1601 cctctgccc acacaagtcc ttgtccttgc agagccgctg ctccgtctcc aaggtctctg agcatgtctg gctgaccacc gtoactaccg tctgttcta
1701 aaggcgcacc agtatactct agagtcgaca cccggggaat tctctgagcg ctgctctcta gcttggcgta atcatggtca tagctgtttc ctgtgtgaaa
1801 ttgttatccg ctcaaatc cacacaacat acgagccgga agcataaagt gtaaacctg gggtgcctaa tgagttagct aactcacatt aattgctgtg
1901 cgctcactgc ccgctttcca gtcgggaaac ctgtcgtgcc agctgcatta atgaatcggc caacgcgagg ggagaggcgg tttgcgtatt gggcgctctt
2001 ccgcttccct gctcactgac tcgctgcgct cggctgcttc gctgcggcga gcggtatcag ctcaactaaa ggcgtaata cggttatcca cagaatcagg
2101 ggataacgca ggaagaaca tgtgagcaaa aggcagcaa aagccagga accgtaaaaa ggcccgcttg ctggcgttt tccataggtt ccccccct
2201 gacgagatc acaaaaatcg acgctcaagt cagaggtggc gaaacccgac aggactataa agataccagg cgtttcccc tggagctcc ctctgctgct
2301 ctctgttccc aagcctgccc cttaccggat acctgtccc ctctctccct tcgggaaagc tccaatgctca cgtgttaggt atctcagttc
2401 ggtgtaggtc gttcgtccca agctgggctg ttgtcacgaa ccccccttc agcccagcg ctgcccctta tccgtaact atcgtcttga gtccaaccg
2501 gtaagacacg acttatcgcc actggcagca gccactggta acagattag cagagcgagg tatgtaggcg gtgtacaga gttcttgaag tgggtgcta
2601 actacggcta cactagaagg acagtatttg gtatctgctc tctgtgaag ccagttacct tcgaaaaaag agttggtagc tcttgatccg gcaaaaaaac
2701 caccgctggt agcgggtggt tttttgtttg caagcagcag attacggcca gaaaaaagg atctcaagaa gatccttga tcttttctac ggggtctgac
2801 gctcagtgga acgaaaactc acgttaaggg attttggta tgagattatc aaaaaggatc ttcacctaga tctttttaa ttaaaaatga agttttaa
2901 caatctaaag tatatatgag taaacttggt ctgacagtta ccaatgctta atcagtgagg cacctatctc agcgatctgt ctatttctgt catccatagt
3001 tgcctgactc cccgctgctg agataactac gatacgggag ggttaccat ctggcccag gtctgcaatg ataccgcgag acccacgctc accggctcca
3101 gatttatcag caataaacca gccagccgga agggccgagc gcagaagtgg tctgtcaact ttatccgct ccatccagtc tattaattgt tgcggggaag
3201 ctagagtaag tagttcgcca gtttaattgt tgcgcaactg ttgtgccatt gctacaggca tctgtgtgto acgctcgtcg tttggtatgg ctctattcag
3301 ctccggttcc caacgatcaa ggcaggttac atgatcccc atgtttgtgca aaaaagcgt tagctcctc ggtcctccga tctgtgtcag aagtaagttg
3401 gccgcagtgt tateactcat ggttatggca gcactgata atctcttac tgtcatgcca tccgtaagat gctttctgt gactggtgag tactcaaca
3501 agtcattctg agaattgtgt atgcggcgac cgagttgctc ttgcccggc tcaatacggg ataatacggc gccacatagc agaacttaa aagtgtcat
3601 cattgaaaa cgttctcgg ggcgaaaaat ctcaaggatc ttaccgctgt tgagatccag ttcgatgtaa cccactcgt caccacaact atcttcagca
3701 tcttttactt tcaccagctt ttctgggtga gcaaaaaacag gaaggcaaaa tgcgcgcaaaa aagggtaataa gggcgacacg gaaatgttga atactcatic
3801 tcttctcttt tcaatattat tgaagcattt atcagggtta ttgtctcatg agcggataca tatttgaatg tatttagaaa aataaaaaaa taggggttcc
3901 gcgcacattt ccccgaaaag tgccacctga cgtctaagaa accattatta tcatgacatt aacctataaa aataggcgta tcacgaggcc ctttcgtc

> RDC0616 Translated Insert Sequence

1 mepsatpqaq pgvptsspeg fhlpdyede flrylwrndyl ypkqyewvli aayvavflia lvgntlvcia vwrnhmrtv tnyfivnlsl advlvtaiel
101 pasllvdite swlfqgalck vipylqavsv svavltlsfi aldrwyaich pllfkstarr argsilgiwa vslavmvpqa avmecssvlp elanrtrlfs
201 vcdehwadel ypkihyscff ivtylaplgl mamayfqifr klwgrqipgt tsalvrnwkr pseqleahq glctepqpra raflaevkqm rarrktakml
301 mvvllvfalc ylpisvlvl krvfqmrqqa sdeavyacf tfshlwlvan saanpiinyf lsgkfrqfkl aafscclppl ppgssarhks lslqsrsvs
401 kvsehvvltt vttvlsl