

Specifications:

Gene:	hMC2R
Accession:	NP_000520
Insert size:	907bp
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.

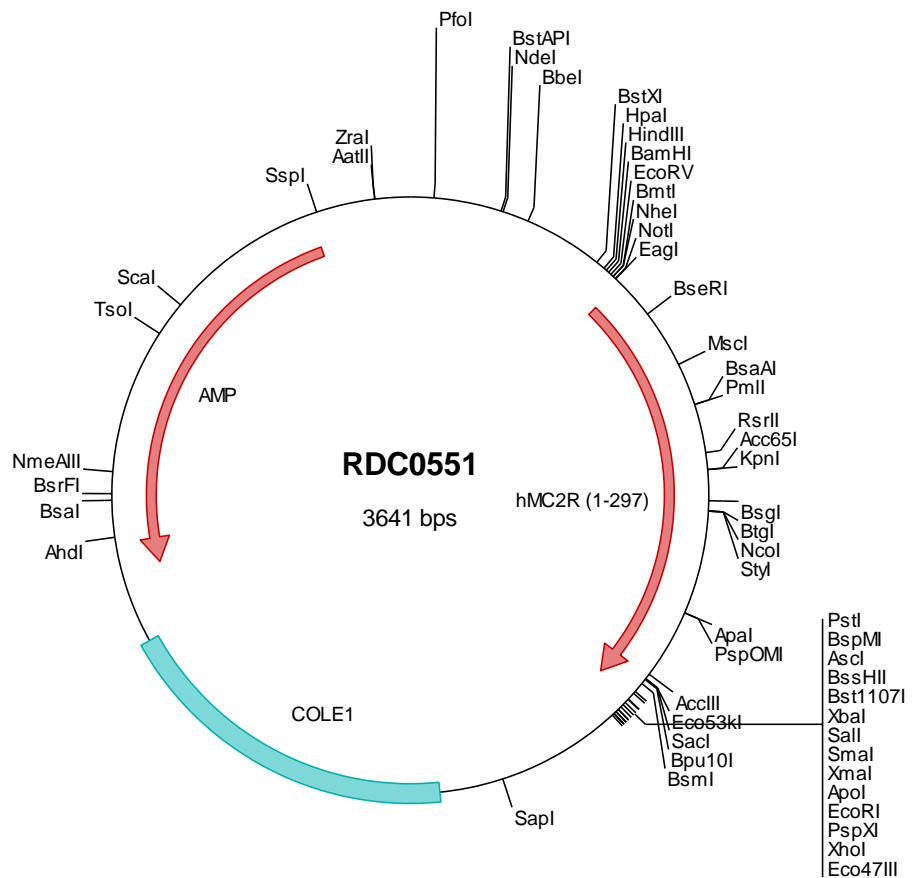
hMC2R cDNA Plasmid

MC2R melanocortin 2 receptor (adrenocorticotrophic hormone) [*Homo sapiens*]

Also known as: ACTHR

Summary:

MC2R encodes one of the five-member G protein associated melanocortin receptor family. MC2R is selectively activated by adrenocorticotrophic hormone, whereas the other four melanocortin receptors recognize a variety of melanocortin ligands. Mutations in MC2R can result in familial glucocorticoid deficiency.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0551 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcaagctccc gagacggta cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tegggtctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc ggtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgccc aactgttggg aaggcgatc ggtcgggccc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccgctc acgacgttg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcct ggatccgata tgcctagcgc gggcggcacc atgaagcaca ttatcaactc gtatgaaaac atcaacaaca cagcaagaaa
501 taattccgac tgcctcgtg tggttttgac ggaggagata tttttcaaaa tttccattgt tggagttttg gagaatctga tgcctcgtc ggcgtgttcc
601 aagaataaga atctccagcc accoatgtac tttttcatct gtagcttggc catatctgat atgctgggca gcoctataaa gatcttggaa aatatcctga
701 tcatatttag aaacatgggc tatctcaagc caogtggcag ttttgaaacc acagcagatg acatcatcga ctccctgttt gtcctctccc tgccttgctc
801 catctcagc ctgtctgtga ttgctcggga ccgctacatc accatcttcc acgcaactgc gtaccacagc atcgtgacca tgcgcccagc tgtgtgtgtg
901 cttacggtao tctggacgtt ctgcaocggg actggaatca coatggtgat cttctcccat catgtgccc aagtatcac cttcaocgtc ctgttcccgc
1001 tgatgctggt cttcaactc tgcctctatg tgcacatggt cctgctggtc cgatcccaca ccagggaagt ctccaccctc ccagagcca acatgaaag
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1301 gggacgcatt caagaagatg atctcttgcga gcaaggtactg gtaaggcgc gccagtatac tctagagtgc acaccgggg aattcctcga gcgctcgtc
1401 ctagcttggc gtaatcatgg tcatagctgt ttctgtgtg aaattgttat ccgctcacia ttccacacia catacagacc ggaagcataa agtgtaaac
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1601 ggccaacgcg cgggggagag cggtttgctg attggggcct cttccgctc ctgctcact gactcgtgc gctcggctg tccgctcgg cgagcggat
1701 cagctcaactc aaaggcggta atacggttat ccacagaatc aggggataac acatgtgagc aaaaggccag caaaaggcca ggaaccgtaa
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1901 taaagatacc aggcgtttcc cctggaagc tccctcgtg gctctcctg tccgacctg ccgcttacg gatacctg cgcctttctc ccttcgggaa
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2301 ccttcggaaa aagagttggt agctcttgat ccggcaaaa aaccaccgt ggtagcgggt gttttttgt ttgcaagcag cagattacgc gcagaaaaa
2401 aggatctcaa gaagatcctt tgatcttttc tacgggtct gacgctcagt ggaacgaaaa ctcaagttaa gggattttg tcatgagatt atcaaaaaa
2501 atcttcacct agatcctttt aaatataaaa tgaagtttta aatcaatcta aagtataat gagtaaaact ggtctgacag ttaccaatgc ttaatcagt
2601 aggcacctat ctcaogcagc tgtctatctt gttcatccat agttgcctga ctccccctg ttagataac tacgatacgg gagggcttac catctggccc
2701 cagtgctgca atgataccgc gagaccacg ctcaaccgct ccagatttat cagcaataaa ccagccagcc ggaagggccg agcgcagaag tggctctgca
2801 actttatccg cctccatcca gctatataat tgttgccggg aagctagagt aagtagttcg ccagtaata gtttgccgaa cgtttgtgcc attgctacag
2901 gcatcgtggt gtcacgctcg tcttttgga tggcttcatc cagctccggt tcccaacgat caagcgaggt tacatgatcc cccatgttgt gcaaaaaagc
3001 ggttagctcc ttcggtctc ctagcttgt cagaagtaag ttggcccgag tgttatcact catggttatg gcagcactgc ataattctct tactgtcatg
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3201 gggataatac cgcgccacat agcagaactt taaaagtgc catcattgga aaacgttctt cggggcgaaa actctcaagg atcttaccgc tgttagatc
3301 cagttcogatg taaccactc gtgcaaccac ctgatcttca gcatctttta ctttaccag cgtttctggg tgagcaaaaa caggaaggca aaatgcccga
3401 aaaaagggaa taaggcgac acggaaatgt tgaatactca tactcttctc ttttcaatc tattgaagca tttatcagg ttattgtctc atgagcggat
3501 acatatttga atgtatttag aaaaataaac aaataggggt tccgcgcaaa tttcccga aagtgccaco tgactctaa gaaaccatta ttaatcatgac
3601 ataacctat aaaaatagc gatatcagag gccctttcgt c

> RDC0551 Translated Insert Sequence

1 mkhiinsyen inntarnnsd cprvvlpeei fftisivgvl enlivllavf knknlqapmy fficlslaisd mlgslykile niliilrnmg ylkprgsfet
101 taddiidslf vslslgsifs lsviaadryi tifhalryhs ivtmrrtvvv ltviwtfctg tgitmvifsh hvptvitfts lfpmlvfil clyvhmfla
201 rshtrkistl pranmkgait ltillgvfif cwapfvhlvl lmtfcpsnpy cacymslfqv ngmlimcnay idpfiyafrs pelrdafkkm ifcsryw