

Specifications:

Gene:	mMC4R
Accession:	AAG35602
Insert size:	1012bp
Concentration:	10µg at 0.2µg/µL

mMC4R cDNA Plasmid

Mc4r melanocortin 4 receptor
[*Mus musculus* (house mouse)]

Also known as: Mc4-r

Summary:

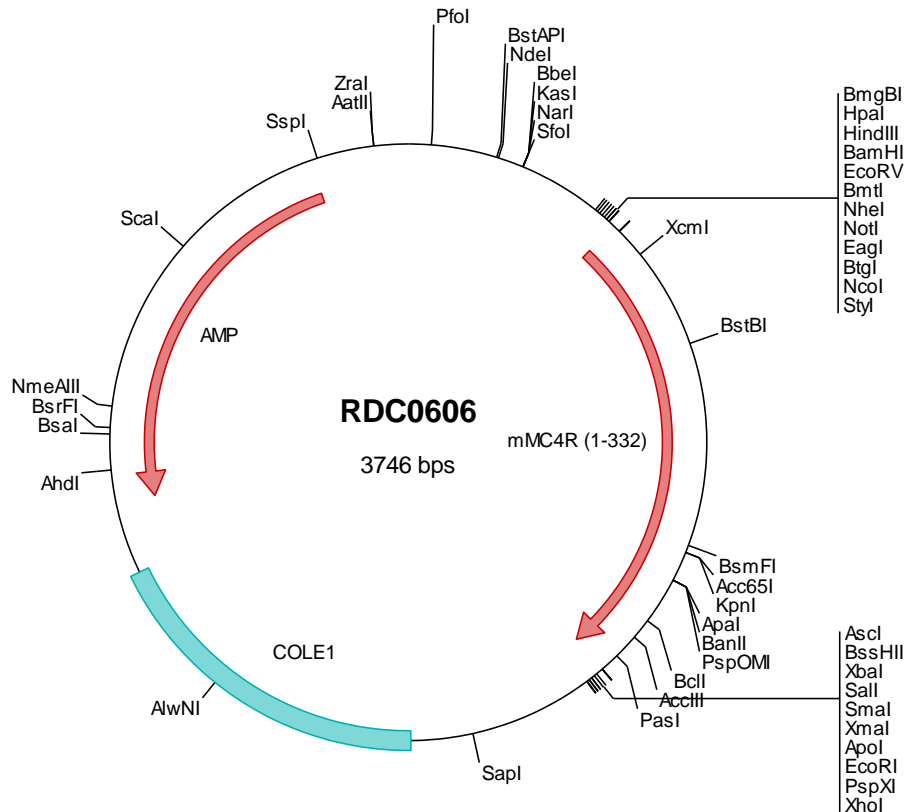
MC4R is a member of the melanocortin receptor family of transmembrane G protein-coupled receptors. It is competitively bound by either melanocyte stimulating hormone or agouti-related protein to regulate energy homeostasis. Defects in MC4R are associated with hyperphagia, obesity, increased cholesterol levels and insulin resistance.

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.





> RDC0606 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gacgctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatagtcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taacgacgct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt ttcccgatc acgacgttg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcct ggatccgata tcgctagcgc gggcggcaacc atgaaactoca cccaccacca tggcatgtat acttccctcc acctctgtaa
501 ccgcagcagc tacgggctgc acagcaatgc cagcagctgc ctggggaaag gccaccggga cgggagatgc tatgagcaac tttttgttc ccccgaggtg
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801 caccgtgaac attgataatg tcattgactc tgtgatctgt agctccttgc tgcacccat ttgcagcctg ctttccattg cggtggaacg gtatttcaact
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2201 cccgaccgct gcgcttctc cggttaactat cgtctgtagt ccaaccgggt aagacacgac ttatcgccac tggcagcagc cactggtaac aggattagca
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2401 agttaccctc ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctgtag cggtgtgttt tttgtttgca agcagcagat tacgcgaga
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3401 agatccagtt cgatgtaacc cactcgtgca cccaactgat ctccagctc tttacttttc accagcgttt ctgggtgagc aaaaacagga aggcaaatg
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3601 cggatacata tttgaatgta tttgaaaaa taacaaata ggggttccgc gcacatttcc ccgaaaagt ccacctgacg tctaagaaac cattattatc
3701 atgacattaa cctataaaaa taggcgtatc acgagccct tctctc

> RDC0606 Translated Insert Sequence

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101 tivitllnst dtdaqsftvn idnvidsvic sllasicsl lsiavdryft ifyalqyhni mtvrrvgiii sciaaactvs gvlfiiysds saviiclism
201 fffmlvlmas lyvhmflmar lhikriavlp ggttirgqtn mkgaitltil igvfvcwap fflhllfyis cpqnpnycvcf mshfnlylil imcnavidpl
301 iyalrsqelr ktfkeiicfy plggicelss ry