

### Specifications:

Gene:	hMC4R
Accession:	NP_005903
Insert size:	1012bp
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

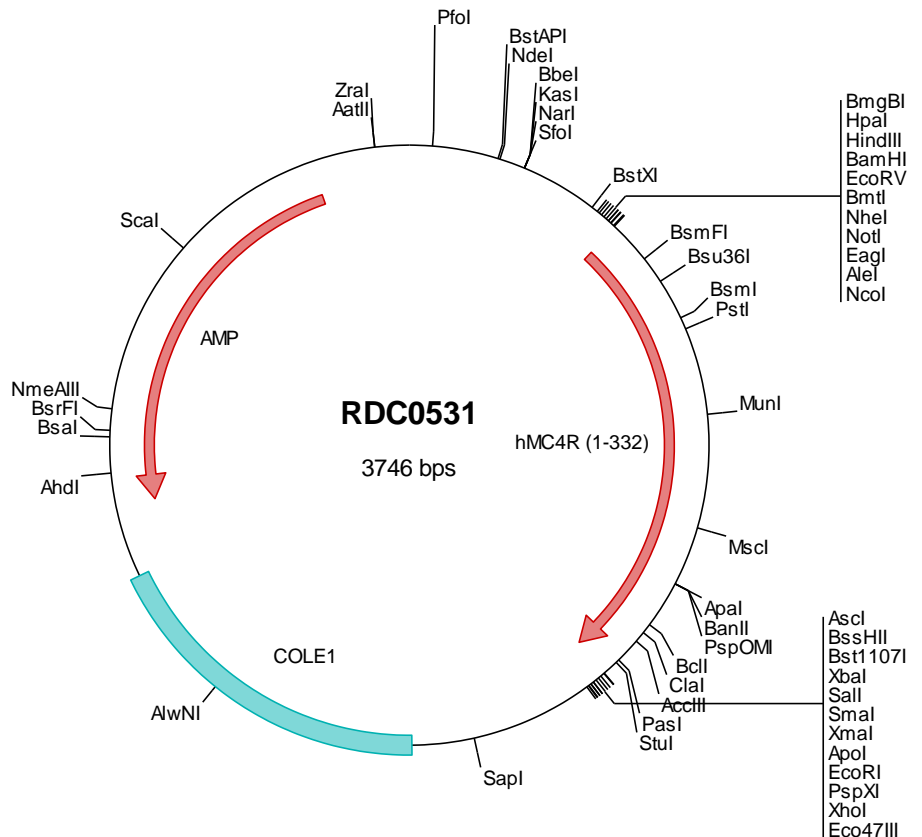
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

## hMC4R cDNA Plasmid

### MC4R melanocortin 4 receptor [ *Homo sapiens* ]

#### Summary:

MC4R is a membrane-bound receptor and member of the melanocortin receptor family. It interacts with adrenocorticotrophic and melanocyte-stimulating hormones and is mediated by G proteins. Defects in this gene are a cause of autosomal dominant obesity.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0531 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggta cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgccagggt ttcccgatc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcctt ggatccgata tccgtagcgc gggcgccacc atggtgaaat ccaccaccgc tgggatgcac acttctctgc acctctggaa
501 ccgcagcagt tacagactgc acagcaatgc cagtggatcc cttgaaaaag gctactctga tggagggtgc tacgagcaac ttttctctgc tccagaggtg
601 tttgtgactc tgggtgtcat cagcttgggt gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc accatgtac ttttctctgc
701 gcagcttggc tgtggctgat atgctgggtg gcgtttcaaa tggatcagaa accattgtca tcaccctatt aaacagtaaa gatcaggatg cacagagttt
801 cacagtgaat attgataatg tcattgactc ggtgatctgt agctccttgc ttgcatccat ttgcagcctg ctttcaattg cagtggacag gtaacttact
901 atctctctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcactata agttgtatct gggcagcttg cacggttcca ggcattttgt
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2101 gggaaagcgtg gcgctttctc aatgctcacg ctgtaggtat ctcagttcgg ttagagctgt tgcctccaag ctgggctgtg tgcacgaacc ccccgttcag
2201 cccgaccgct gcgcttctc cggttaactat cgtctttagt ccaaccgggt aagacacgac ttatcgccac tggcagcagc cactggtaac aggattagca
2301 gagcgaggtg ttagggcggt gctacagagt tcttgaagtg gttggcctaac tacggctaca ctagaaggac agtatttggg atctgcgctc tgctgaagcc
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2501 aaaaaaggat ctcaagaaga tcttttgatc ttttctacgg ggtctgacgc tcagtggaa gaaaactcac gtaagggat tttggtcatg agattatcaa
2601 aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatca atctaaagta tatatgagta aacttggctc gacagttacc aatgctaat
2701 cagtggagca cctatctcag cgtatctgct atttctgtca tccatagttg cctgactccc cgtcgtgtag ataactacga tacgggaggg cttaccatct
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3201 tcatgccatc cgtaagatgc ttttctgtga ctgggtgagta ctcaaccaag tcattctgag aatagtgat gcggcgaccg agttgctctt gcccgcgctc
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3401 agatccagtt cgatgtaacc cactcgtgca cccaactgat cttcagcact ttttactttc accagcgttt ctgggtgagc aaaaacagga aggcataatg
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3601 cggatacata tttgaatgta tttgaaaaa taacaaataa ggggttccgc gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc
3701 atgacattaa cctataaaaa taggcgtatc acgagccctc tctctc

> RDC0531 Translated Insert Sequence

1 mvnsthrgmh tslhlwnrss yrllhsnases lkgqysdggc yeqlfvspev fvtlglvisll enilvivaia knknlhspmy fficslavad mlvsvsngse
101 tivitllnst dtdaqsftvn idnvidsvic sllasicsl lsiavdryft ifyalqyhni mtvkrvgiii sciaaactvs gilfiiysds saviiclitm
201 fffmlalmas lyvhmflmar lhikriavlp gtgairqgan mkgaitltil igvfvcwap ffhlhlfyis cpqnpnycvcf mshfnlylil imcnsiidpl
301 iyalrsqelr ktfkeiiccy plggldclss ry