

Specifications:

Gene:	hMC1R
Accession:	NP_002377
Insert size:	967bp
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.

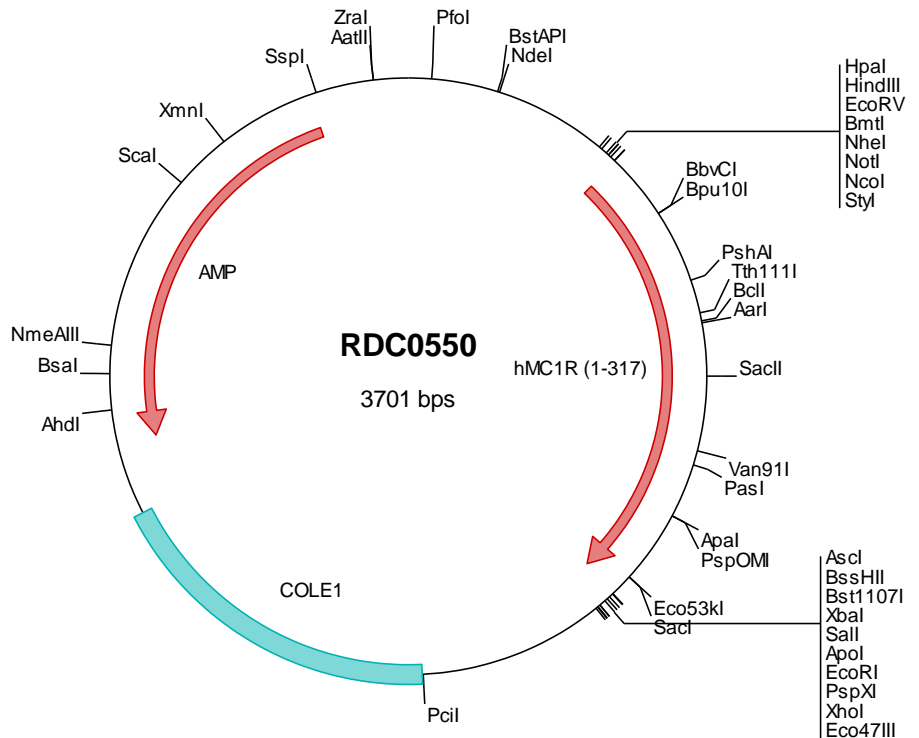
hMC1R cDNA Plasmid

MC1R melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor) [*Homo sapiens*]

Also known as: CMM5; MSH-R; SHEP2

Summary:

MC1R, the receptor for melanocyte-stimulating hormone (MSH), is a seven pass transmembrane G protein-coupled receptor that controls melanogenesis. Binding of MSH to MC1R activates the receptor and stimulates eumelanin synthesis. MC1R is a major determining factor in sun sensitivity and is a genetic risk factor for melanoma and non-melanoma skin cancer.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0550 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcacgggggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201 ccgcacacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taacggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt tttccagtc acgacgttg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggctgtgc agggatocca gagaagactt ctgggctccc tcaactocac
501 ccccacagcc atccccagc tggggctggc tgccaaccag acaggagccc ggtgcttggg ggtgtccatc tetgacgggc tcttctocag cctggggctg
601 gtgagcttgg tggagaacgc gctgggtggg gccaccatcg ccaagaaccg gaaactgcac teaccatgt actgcttcac ctgctgctg gccctgtcgg
701 aactgctggt gagcgggagc aactgctggt agacggcgt catctctctg ctggaggcgg gtgcactggt ggcccgggct gcggtgctgc agcagctgga
801 caatgtcaatt gacgtgaca cctgcaagtc catgctgtcc agcctctgct tctggggcgc catcgccgtg gaccgtaca tctccatctt ctacgcactg
901 cgtaaccaca gcattgctgac cctgccggcg gcgcccggag ccgttgcggc catctgggtg gccagtgtcg tcttccagc gctcttccac gccactacg
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1501 aaattgttat ccgctcaca tccacacaa catacgagcc ggaagcataa agtgtaaagc ctgggggtgc taatgagtga gctaaactcac attaattgctg
1601 ttgcgctcac tgcccgtttt ccagtcggga aactgtcgt gccagctgca ttaatgaatc ggccaacggc cggggagagg cggtttgcgt attggggcgt
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2001 gctctcctgt tccgacctg ccgcttaccg gatactgtc cgctttctc ccttcgggaa gcgtggcgct ttctcaatgc tcacgctgta ggtatctcag
2101 ttcggtgtag gtcgttgcct ccaagctggg ctggtgtgac gaaacccccg ttcagcccga ccgctgccc ttatccggtg actatcgtct tgagccaac
2201 ccggtaaagc acgacttacc gccactggca gcagccactg gtaacaggat tagcagagcg aggtatgtag cgggtgctac agagttcttg aagtggggc
2301 ctaactacgg ctacactaga aggacagtat ttggtatctg cgctctgctg aagccagtta ccttcggaaa aagagttggg agctcttgat cggcaaaaca
2401 aaccaccgct ggtagcggtg gtttttttgt ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa gaagatcctt tgatcttttc tacggggctc
2501 gacgctcagt ggaacgaaaa ctcacgttaa gggattttg tcatgagatt atcaaaaagg atcttccact agatcctttt aaatataaaa tgaagttta
2601 aatcaatcta aagtatatat gagtaaaact ggtctgacag ttaccaatgc ttaatcagtg aggcacctat ctacgcgac tgctctattc gttcatccat
2701 agttgcctga ctccccgtcg tgtagataac tacgatacgg gagggttac catctggccc cagtgctgca atgataccgc gagaccacg ctcaccggct
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3101 ttggccgagc tgttatcact catggttatg gcagcactgc ataattctct tactgtcatg ccacccgtaa gatgcttttc tgtgactggt gactactcaa
3201 ccaagtcatt ctgagaatag tgtatcgcc gaccgagttg cctctggccc gcgtcaatac gggataatac cgcgccacat agcagaactt taaaagtgc
3301 catcattgga aaacgttctt cggggcgaaa actctcaagg atcttaccgc tgtttagatc cagttcagtg taaccactc gtcacccaa ctgactctca
3401 gactcttga ctttccaccg cgtttctggg tgagcaaaaa caggaaggca aaatccgca aaaaagggaa taaggcgac agcgaatgt gtaatactca
3501 tactcttct ttttcaatat tattgaagca tttatcaggg ttattgtctc atgagcggat acatatgtga atgtatttag aaaaataaac aatatgggt
3601 tccgcgcaca tttcccga aagtgccacc tgacgtctaa gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag gcccttctg
3701 c

> RDC0550 Translated Insert Sequence

1 mavqgsqrrl lqslnstpta ipqlglaanq tgarclvsi sdglflslgl vslvenalv atiaknrnlh spmycficcl alsdllvsqs nvletavill
101 leagalvara avlqldnvi dvticssmls slcflgaiav dryisifyal ryhsivtlpr arravaaiw aswvfstlfi aydhvavll clvvfflaml
201 vlmavlyvhm laraqhagg iarlhkrqrp vhgqfglkga vltlillgif flcwgpfflh ltlivlcphe ptcgcfiknf nlfaliicn aaidpliyaf
301 hsqelrtrtk evltcs