

## Product datasheet for **SC209812**

### MC1 Receptor (MC1R) (NM\_002386) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	MC1 Receptor (MC1R) (NM_002386) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	MC1R
Synonyms:	CMM5; MSH-R; SHEP2
ACCN:	NM_002386
Insert Size:	790 bp
Insert Sequence:	>SC209812 3'UTR clone of NM_002386 The sequence shown below is from the reference sequence of NM_002386. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CTCAAGGAGGTGCTGACATGCTCCTGGTGAAGCGCGGTGCACGCGGCTTTAAGTGTGCTGGGCAGAGGGA
GGTGGTGATATTGTGGTCTGGTTCCTGTGTGACCCCTGGGCAGTTCCTTACCTCCTGGTCCCCGTTT
GTCAAAGAGGATGGACTAAATGATCTCTGAAAGTGTGAAGCGCGGACCCCTTCTGGGTCCAGGGAGGGG
TCCTGCAAAACTCCAGGCAGGACTTCTACCAGCAGTCTGGGGAACGGAGGAGACATGGGGAGGTT
GTGGGCCTCAGGCTCCGGGCACCAAGGGCCAACCTCAGGCTCCTAAAGAGACATTTCCGCCACTCC
TGGGACACTCCGTCTGCTCCAATGACTGAGCAGCATCCACCCACCCCATCTTTGCTGCCAGCTCTCAG
GACCGTGCCTCGTCAGCTGGGATGTGAAGTCTCTGGGTGGAAGTGTGTGCCAAGAGCTACTCCACAG
CAGCCCCAGGAGAAGGGGCTTTGTGACCAGAAAGCTTCATCCACAGCCTGCAGCGGCTCCTGCAAAAG
GAGGTGAAATCCCTGCCTCAGGCCAAGGGACCAGGTTTGCAGGAGCCCCCTAGTGGTATGGGGCTGAG
CCCTCCTGAGGGCCGGTTCTAAGGCTCAGACTGGGCACTGGGCCTCAGCCTGCTTCTCCTGCAGCAGTC
GCCAAGCAGACAGCCCTGGCAAATGCCTGACTCAGTGACCAGTGCCTGTGAGCATGGGGCCAGGAAAG
TCTGGTAATAAATGTGACTCAGCATCACCCA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG

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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).



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<b>Components:</b>	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
<b>RefSeq:</b>	<u><a href="#">NM_002386.4</a></u>
<b>Summary:</b>	This intronless gene encodes the receptor protein for melanocyte-stimulating hormone (MSH). The encoded protein, a seven pass transmembrane G protein coupled receptor, controls melanogenesis. Two types of melanin exist: red pheomelanin and black eumelanin. Gene mutations that lead to a loss in function are associated with increased pheomelanin production, which leads to lighter skin and hair color. Eumelanin is photoprotective but pheomelanin may contribute to UV-induced skin damage by generating free radicals upon UV radiation. Binding of MSH to its receptor activates the receptor and stimulates eumelanin synthesis. This receptor is a major determining factor in sun sensitivity and is a genetic risk factor for melanoma and non-melanoma skin cancer. Over 30 variant alleles have been identified which correlate with skin and hair color, providing evidence that this gene is an important component in determining normal human pigment variation. [provided by RefSeq, Jul 2008]
<b>Locus ID:</b>	4157
<b>MW:</b>	27.5