

## Product datasheet for **SC116446**

### MC5R (NM\_005913) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MC5R (NM_005913) Human Untagged Clone
Tag:	Tag Free
Symbol:	MC5R
Synonyms:	MC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116446 sequence for NM_005913 edited (data generated by NextGen Sequencing)

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ATGAATTCCTCATTTACCTGCATTTCTTGGATCTCAACCTGAATGCCACAGAGGGCAAC
CTTTCAGGACCCAATGTCAAAAACAAGTCTTACCATGTGAAGACATGGGCATTGCTGTG
GAGGTGTTTCTACTCTGGGTGTCATCAGCCTCTTGGAGAACATCTTGGTCATAGGGGCC
ATAGTGAAGAACAAAACCTGCACTCCCCATGTACTTCTTGTGTGCAGCCTGGCAGTG
GCGGACATGCTGGTGAGCATGTCCAGTGCCTGGGAGACCATCACCATCTACCTACTCAAC
AACAAAGCACCTAGTGATAGCAGACGCCTTTGTGCGCCACATTGACAATGTGTTTGACTCC
ATGATCTGCATTTCCGTGGTGGCATCCATGTGCAGCTTACTGGCCATTGCAGTGGATAGG
TACGTACCATCTTCTACGCCCTGCGCTACCACCACATCATGACGGCGAGGCGCTCAGGG
GCCATCATCGCCGGCATCTGGGTTTTCTGCACGGGCTGCGGCATTGTCTTCATCCTGTAC
TCAGAATCCACCTACGTATCCTGTGCCTCATCTCCATGTTCTTCGCTATGCTGTTCCCTC
CTGGTGTCTCTGTACATACATGTTCCCTCCTGGCGGGACTCACGTCAAGCGGATCGCG
GCTCTGCCGGGGCCAGCTCTGCGCGGCAGAGGACCAGCATGCAGGGCGCGGTCACCGTC
ACCATGCTGCTGGGCGTGTTTACCGTGTGCTGGGCCCCGTTCTTCCTTCACTACTTTA
ATGCTTCTTGCCTCAGAACCTCTACTGCTCTCGCTTCAATGTCTCACTTCAATATGTAC
CTCATACTCATCATGTGTAATCCGTGATGGACCCTCTCATATATGCCTCCGCAGCCAA
GAGATGCGGAAGACCTTTAAGGAGATTATTTGCTGCCGTGGTTTCAGGATCGCCTGCAGC
TTTCCCAGAAGGGATTAA

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Clone variation with respect to NM\_005913.2  
503 c=>t



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005913 unedited  
 CGTTAGATTTGTATACGACTCATATAGGCGGCCGCGNAATCGGCACGAGGCAGCCGCCTA  
 GCTGGGGGAGAGGCCCGTCCGGGGCTGGCTCTGAGCGCCGCACGGCCGTCGGATCCCGGG  
 GACGCCGGGGGCCCGGGCTGAGCGCCGCGGCCGCGAGGAGGAGCACCGTAAATTTGCTG  
 CCAAGACAAGAGGTGATTTCTCCAGCAATGAATTCCTCATTTACCTGCATTTCTTGA  
 TCTCAACCTGAATGCCACAGAGGGCAACCTTTCAGGACCCAATGTCAAAAACAAGTCTTC  
 ACCATGTGAAGACATGGGCATTGCTGTGGAGGTGTTTCTCACTCTGGGTGCATCAGCCT  
 CTTGGAGAACATCTTGGTCATAGGGGCCATAGTGAAGAACAACCTGCACTCCCCCAT  
 GTACTTCTTCGTGTGCAGCCTGGCAGTGGCGGACATGCTGGTGAGCATGTCCAGTGCCTG  
 GGAGACCATCACCATCTACCTACTCAACAACAAGCACCTAGTGATAGCAGACGCCTTTGT  
 GCGCCACATTGACAATGTGTTTACTCCATGATCTGCATTTCCGTGGTGGCATCCATGTG  
 CAGCTTACTGGCCATTGCAGTGGATAGGTACGTACCATCTTCTACGCCCTGCGTACCA  
 CCACATCATGACGGCGAGGCGCTCAGGGGCCATCATCGCCGGCATCTGGGTTTTCTGCAC  
 GGGCTGCGGCATTGNCTTCATCCTGTACTCAGAAGCCACCTACGTATCCTGTGCCTCAT  
 CTCATGGTCTTCGCTATGCTGNTCCTCCTGGNGTCTCTGTACATACACATGTTCTTCT  
 GCGCGGACTCACGTCAAGCGGATCGCTGCTCTGCCCTGGGCCAGCTCTGCGCTGCAGAG  
 GAACAGCATGCAGGNCGT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005913 unedited  
 GGTGGGTGCAATCCCTTTTTATTTGTAGGTGTTATATCATTGTTGGTCTGAGACTGGCCAT  
 CCTACAGGCCATAAATATTGTCAAGGTAGACTTCACCACAAGTCACCAACGAATGTGCCT  
 TCTCATTTTGCAGTAGCTAACGAATTGGCAGAAAGACCAAAACCATTCTGGATATCA  
 GAATGACCAGTTCAAACAGGTGGTCTGCTCCTTCCATTTTATTAACCATTTCTTGAACA  
 CACGTTTTTACATCAAACAATTTCTACAGAAGCAGATATTTAACATACCATATCATAAC  
 AATATTTGACAGTTATATGTATTCTTTTTGGGGGAGACACTTTGTGTTGGGTGCTAAGGG  
 TTGGCTCATTTATGTACAGATATTTACCAAGTCACTACACACATGTATTCTTCCAAATG  
 AAGACACATCTAAATACTAGGGTATTTCTGCACTATTTATAAAGATTAAGGCATTTG  
 AGCATTTCATAAAGACCTTTTTATGAAAGGTCAGATCTTGTAGCAACTCATGAAGCACC  
 AGAGCAGAAAATTAGCCTAAAGAGAATTGGGTTGCTAGACGGGGCCAGTGTCAACCACAG  
 GGTTGAAGATTCTGCCCATAGGACTGGAACCTATTTACTCAGGTCTACCAGGCCGAA  
 GAGTCAATCACATTTGTTTTGCACCAATAACAAGCATTCTTGGTGCCCTGCTCACTCCC  
 TGAACCTGTTGTAAGACATGGGGCCACCTATTTGCTTGAGGCTAAGTAAAGCCAGTTTTA  
 CAGAAGCCGTGTTCTGAGACACATCCCACGGAACAATACACTTAGGTTCCACGGAGGTA  
 CACGGAACCCTTTATGCCCTTTCCGGATCCCACCTGAATTTTCTCCATAGAGCCAGAAAC  
 TTTGATAAAGAATTGGCCCTTAACCTTAGTGGCACCACCGNACATCCCCTTTAACAGTTT  
 GGGTCTTAGCCCCCTCGTCATCTCACCTACT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005913

**Insert Size:**

4000 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_005913.1](#), [NP\\_005904.1](#)

**RefSeq Size:** 978 bp

**RefSeq ORF:** 978 bp

**Locus ID:** 4161

**UniProt ID:** [P33032](#)

**Cytogenetics:** 18p11.21

**Domains:** 7tm\_1

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**Gene Summary:** This gene encodes a member of the seven-pass transmembrane G protein-coupled melanocortin receptor protein family that stimulate cAMP signal transduction. The encoded protein is a receptor for melanocyte-stimulating hormone and adrenocorticotrophic hormone and is suggested to play a role in sebum generation. [provided by RefSeq, Jun 2010]