

## Product datasheet for SC113222

### MC3R (NM\_019888) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MC3R (NM_019888) Human Untagged Clone
Tag:	Tag Free
Symbol:	MC3R
Synonyms:	BMIQ9; MC3; MC3-R; OB20; OQTL
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_019888, RT-PCR generated  
 ATGAGCATCCAAAAGAAGTATCTGGAGGGAGATTTTGTCTTTCTGTGAGCAGCAGCAGC  
 TTCCTACGGACCCTGCTGGAGCCCCAGCTCGGATCAGCCCTTCTGACAGCAATGAATGCT  
 TCGTGCTGCCTGCCTCTGTTTCAGCCAACACTGCCTAATGGCTCGGAGCACCTCCAAGCC  
 CCTTTCTCAGCAACCAGAGCAGCAGCGCCTTCTGTGAGCAGGTCTTCATCAAGCCCGAG  
 GTTTTCTGTCTCTGGGCATCGTCAGTCTGCTGGAAAACATCCTGGTTATCCTGGCCGTG  
 GTCAGGAACGGCAACCTGCACTCCCCGATGTAATCTTTCTGTCAGCCTGGCGGTGGCC  
 GACATGCTGGTAAGTGTCCAATGCCCTGGAGACCATCATGATCGCCATCGTCCACAGC  
 GACTACCTGACCTTCGAGGACCAGTTTATCCAGCACATGGACAACATCTTCGACTCCATG  
 ATCTGCATCTCCCTGGTGGCCTCCATCTGCAACCTCCTGGCCATCGCCGTCGACAGGTAC  
 GTCACCATCTTTTACGCGCTCCGCTACCACAGCATCATGACCGTGAGGAAGGCCCTCACC  
 TTGATCGTGGCCATCTGGGTCTGCTGCGGCGTCTGTGGCGTGGTGTTCATCGTCTACTCG  
 GAGAGCAAAATGGTCATTGTGTGCCTCATCACCATGTTCTTCGCCATGATGCTCCTCATG  
 GGCACCCTCTACGTGCACATGTTCTCTTTGCGCGGTGCACGTCAAGCGCATAGCAGCA  
 CTGCCACCTGCCGACGGGGTGGCCCCACAGCAACTCATGCATGAAGGGGGCAGTCACC  
 ATCACCATTCTCCTGGGCGTGTTCATCTTCTGCTGGGCCCCCTTCTTCTCCACCTGGTC  
 CTCATCATCACCTGCCCCACCAACCCCTACTGCATCTGCTACACTGCCCACTTCAACACC  
 TACCTGGTCCCTCATCATGTGCAACTCCGTCATCGACCCACTCATCTACGTTTCCGGAGC  
 CTGGAATTGCGCAACACCTTTAGGGAGATTCTCTGTGGCTGCAACGGCATGAACTTGGGA  
 TAG



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_019888 unedited  
 TTTGGGGATTTTTGGATTTGTNAAACGACTTCACTATAGGCGCCGCCAGTCGTGAGGAT  
 ATCTGCAGAATTCGGCTTATGAGCATCCAAAAGAATATCTGGAGGGAGATTTTGTCTTTC  
 CTGTGAGCAGCAGCAGCTTCTACGGACCTGTGGAGCCCCAGCTCGGATCAGCCCTTC  
 TGACAGCAATGAATGCTTCGTGCTGCCCTGTTCAGCCAACACTGCCTAATGGCT  
 CGGAGCACCTCCAAGCCCCTTTCTCAGCAACCAGAGCAGCAGCCCTTCTGTGAGCAGG  
 TCTTCATCAAGCCCAGGTTTTCTGTCTCTGGGCATCGTCAGTCTGCTGGAAAACATCC  
 TGGTTATCCTGGCCGTGGTCAGGAACGGCAACCTGCACTCCCCGATGTACTTCTTCTCT  
 GCAGCCTGGCGGTGGCCGACATGCTGGTAAGTGTGTCCAATGCCCTGGAGACCATCATGA  
 TCGCCATCGTCCACAGCGACTACCTGACCTTCGAGGACCAGTTTATCCAGCACATGGACA  
 ACATCTTCGACTCCATGATCTGCATCTCCCTGGTGGCCTCCATCTGCAACCTCCTGGCCA  
 TCGCCGTGCAGAGGTACGTCACCATCTTTACGCGCTCCGCTACCACAGCATCATGACCG  
 TGAGGAAGGCCCTCACCTTGATCGTGGCCATCTGGGTCTGCTGCGCGCTGTGGCGTGG  
 TGTTTCATGCTACTCGGAGAGCANAAGGTCATTGTGTGCCTCATCACCATGTTCTTCGC  
 CATGATGCTNCTCATGGGCACCCTACGTGCACATGTTCTTTCGCGGGCTGCACGT  
 CAAGCGCATAGCAGCACTGCCATCTGCCGACCGGGTGGCCCCACAGCAACTCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_019888 unedited  
 TCTANATNCGACAAGACTTGATATCGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCA  
 GTGTGCTGGAATTCGGCTTCTATCCCAAGTTCATGCCGTTGCAGCCACAGAGAATCTCCC  
 TAAAGGTGTTGCGCAATCCAGGCTCCGAAAGCGTAGATGAGTGGGTCGATGACGGAGT  
 TGCACATGATGAGGACCAGGTAGGTGTTGAAGTGGCAGTGTAGCAGATGCAGTAGGGGT  
 TGGTGGGGCAGGTGATGATGAGGACCAGGTGGAGGAAGAAGGGGGCCAGCAGAAGATGA  
 ACACGCCCAGGAGAATGGTGATGGTGACTGCCCTTCATGCATGAGTGTGCTGTGGGG  
 CCACCCCGTCCGCAAGGTGGCAGTGTGCTATGCGCTTGACGTGCAGCCGCGCAAAGAGGA  
 ACATGTGCACGTAGAGGGTGCCCATGAGGAGCATCATGGCGAAGAACATGGTGATGAGGC  
 ACACAATGACATTTTGTCTCCGAGTAGACGATGAACACCACGCCACAGACGCCCGCAGC  
 AGACCCAGATGGCCACGATCAAGGTGAGGGCCTTCTCACGGTCATGATGCTGTGGTAGC  
 GGAGCGCGTAAAAGATGGTGACGTACCTGTGACGGCGATGGCCAGGATGTTGCAGATGG  
 AGGCCACCAGGGAGATGCAGATCATGGAGTCGAAGATGTTGTCCATGTGCTGGATAAAT  
 GGTCTCGAAGGTCAGGTAGTCGCTGTGGACGATGGGCGATCATGATGGTCTCANGGCAT  
 TGGACACACTTACCAGCATGTCGGCCACCGCCAGGCTGCAGAGAAAGGAGTACATCGGGG  
 GATTGCATGTTGCC

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_019888

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_019888.2</a> , <a href="#">NP_063941.2</a>
<b>RefSeq Size:</b>	1083 bp
<b>RefSeq ORF:</b>	1083 bp
<b>Locus ID:</b>	4159
<b>UniProt ID:</b>	<a href="#">P41968</a>
<b>Cytogenetics:</b>	20q13.2
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	This gene encodes a G-protein-coupled receptor for melanocyte-stimulating hormone and adrenocorticotrophic hormone that is expressed in tissues other than the adrenal cortex and melanocytes. This gene maps to the same region as the locus for benign neonatal epilepsy. Mice deficient for this gene have increased fat mass despite decreased food intake, suggesting a role for this gene product in the regulation of energy homeostasis. Mutations in this gene are associated with a susceptibility to obesity in humans. [provided by RefSeq, Jul 2008]