

## Product datasheet for **SC335171**

### MC2 receptor (MC2R) (NM\_001291911) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MC2 receptor (MC2R) (NM\_001291911) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MC2R  
**Synonyms:** ACTHR  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC335171 representing NM\_001291911.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

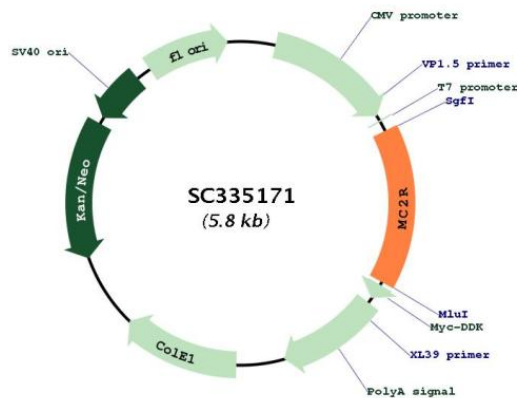
```
ATGAAGCACATTATCAACTCGTATGAAAACATCAACAACACAGCAAGAAATAATCCGACTGTCCTCGT
GTGGTTTTGCCGGAGGAGATATTTTTACAATTTCCATTGTTGGAGTTTTGGAGAATCTGATCGTCCTG
CTGGCTGTGTTCAAGAATAAGAATCTCCAGGCACCCATGTACTTTTTATCTGTAGCTTGCCATATCT
GATATGCTGGGCAGCCTATATAAGATCTTGAAAATATCCTGATCATATTGAGAAACATGGGCTATCTC
AAGCCACGTGGCAGTTTTGAAACCACAGCCGATGACATCATCGACTCCCTGTTTGTCTCTCCCTGCTT
GGCTCCATCTTCAGCCTGTCTGTGATTGCTGCGGACCGCTACATCACCATCTCCACGCACTGCGGTAC
CACAGCATCGTGACCATGCGCCGCACTGTGGTGGTGCTTACGGTCATCTGGACGTTCTGCACGGGGACT
GGCATCACCATGGTGATCTTCTCCCATCATGTGCCACAGTGATCACCTCACGTCGCTGTTCCCGCTG
ATGCTGGTCTTCATCCTGTGCCTCTATGTGCACATGTTCTGCTGGCTCGATCCCACACCAGGAAGATC
TCCACCTCCCCAGAGCCAACATGAAAGGGGCCATCACACTGACCATCCTGCTCGGGTCTTCATCTTC
TGCTGGGCCCCCTTTGTGCTTCATGTCTCTTGATGACATTCTGCCAAGTAACCCTACTGCGCCTGC
TACATGTCTCTTCCAGGTGAACGGCATGTTGATCATGTGCAATGCCGTATTGACCCCTTCATATAT
GCCTTCCGGAGCCAGAGCTCAGGGACGCATTCAAAAAGATGATCTTCTGCAGCAGGTAAGTAG
```

**Restriction Sites:** Sgfl-Mlul



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## Plasmid Map:



ACCN: NM\_001291911

Insert Size: 894 bp

**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).

**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:	<a href="#">NM_001291911.1</a>
RefSeq Size:	3681 bp
RefSeq ORF:	894 bp
Locus ID:	4158
UniProt ID:	<a href="#">Q01718</a>
Cytogenetics:	18p11.21
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	33.9 kDa
Gene Summary:	<p>MC2R encodes one member of the five-member G-protein associated melanocortin receptor family. Melanocortins (melanocyte-stimulating hormones and adrenocorticotrophic hormone) are peptides derived from pro-opiomelanocortin (POMC). MC2R is selectively activated by adrenocorticotrophic hormone, whereas the other four melanocortin receptors recognize a variety of melanocortin ligands. Mutations in MC2R can result in familial glucocorticoid deficiency. Alternate transcript variants have been found for this gene. [provided by RefSeq, May 2014]</p> <p>Transcript Variant: This variant (2) has an alternate 5' UTR exon, compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>