

Product datasheet for **SC119819**

MC2 receptor (MC2R) (NM_000529) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MC2 receptor (MC2R) (NM_000529) Human Untagged Clone
Tag:	Tag Free
Symbol:	MC2R
Synonyms:	ACTHR
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene sequence for NM_000529, RT-PCR generated

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ATGAAGCACATTATCAACTCGTATGAAAACATCAACAACACAGCAAGAAATAATTCCGAC
TGTCTCGTGTGGTTTTGCCGGAGGAGATATTTTTCACAATTTCCATTGTTGGAGTTTTG
GAGAATCTGATCGTCTGCTGGCTGTGTTCAAGAATAAGAATCTCCAGGCACCCATGTAC
TTTTTCATCTGTAGCTTGGCCATATCTGATATGCTGGGCAGCCTATATAAGATCTTGAA
AATATCTGATCATATTGAGAAACATGGGCTATCTCAAGCCACGTGGCAGTTTTGAAACC
ACAGCCGATGACATCATCGACTCCCTGTTTGTCTCTCCCTGCTTGGCTCCATCTTCAGC
CTGTCTGTGATTGCTGCGGACCGCTACATCACCATCTTCCACGCACTGCGGTACCACAGC
ATCGTGACCATGCGCCGCACTGTGGTGGTGCTTACGGTCATCTGGACGTTCTGCACGGGG
ACTGGCATCACCATGGTATCTTCTCCCATCATGTGCCACAGTGATCACCTTCAGTCCG
CTGTTCCCGCTGATGCTGGTCTTCATCCTGTGCCTCTATGTGCACATGTTCTGCTGGCT
CGATCCCACACCAGGAAGATCTCCACCCTCCCAGAGCCAACATGAAAGGGGCCATCACA
CTGACCATCTGCTCGGGTCTTCATCTTCTGCTGGGCCCTTTGTGCTTCATGTCTCTC
TTGATGACATTCTGCCAAGTAACCCCTACTGCGCCTGCTACATGTCTCTTCCAGGTG
AACGGCATGTTGATCATGTGCAATGCCGTCATTGACCCCTTCATATATGCCTTCCGGAGC
CCAGAGCTCAGGGACGCATTCAAAAAGATGATCTTCTGCAGCAGGTAAGTGGTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000529 unedited GGGGGACTTCGGTATTGTAACAGAATCCACGGTAGGCGGAACGCCATGTGATGGGTATCT GCAGATTCGGCTTAAATGAAGCACATTATCAACTCGTATGTA AACATCAACAACACAG CAAGAAATAATCCGACTGTCCTCGTGTGGTTTTGCCGGAGGAGATTTTTTACAATTT CCATTGTTGGAGTTTTGGAGAATCTGATCGTCTGTTTTCTGTGTTCAAGAATAAGAATC TCCAGGCACCCATGTACTTTTTCATCTGTAGCTTGCCATATCTGATATGCTGGGCAGCC TATATAAGATCTTGAAAATATCCTGATCATATTGAGAAACATGGGCTATCTCAAGCCAC GTGGCAGTTTTGAAACCACAGCCGATGACATCATCGACTCCCTGTTTGTCTCTCCCTGC TTGGCTCCATCTTCAGCCTGTCTGTGATTGCTGCGGACCCTACATCACCATCTTCCACG CACTGCGGTACCACAGCATCGTGACCATGCGCCGCACTGTGGTGGTGCTTACGGTCATCT GGACGTTCTGCACGGGGACTGGCATCACCATGGTGATCTTCTCCCATCATGTGCCACAG TGATCACCTTCACGTCGCTGTTCCCGCTGATGCTGGTCTTCATCCTGTGCCTCTATGTGC ACATGTTCTGCTGGCTCGATCCCACACCAGGAAGATCTCCACCCTCCCAGACCAACAT GAAAGGGGCCATCACACTGACCATCCTGCTCGGGGTTCTTCATCTTCTGCTGGGCCCCCC TTGTGCTTTATGCCTTTGATGACATTCTGCCAAGTAACCCCTACTGCGCCTGCTCAT GTCTTTCTCCGGTGAACGGCTGTTGATCT
Restriction Sites:	Please inquire
ACCN:	NM_000529
Insert Size:	1000 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
RefSeq:	NM_000529.2 , NP_000520.1
RefSeq Size:	3652 bp
RefSeq ORF:	894 bp
Locus ID:	4158
UniProt ID:	Q01718
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction

Gene Summary:

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]

Transcript Variant: This variant (1) and variant 2 encode the same protein.