

Product datasheet for RC215195

MC3R (NM_019888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MC3R (NM_019888) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MC3R
Synonyms:	BMIQ9; MC3; MC3-R; OB20; OQTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215195 representing NM_019888 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCATCCAAAAGAAGTATCTGGAGGGAGATTTTGTCTTTCCTGTGAGCAGCAGCAGCTTCTACGGA
CCCTGTGGAGCCCCAGCTCGGATCAGCCCTTCTGACAGCAATGAATGCTTCGTGCTGCCTGCCCTGT
TCAGCCAACTGCCTAATGGCTCGGAGCACCTCAAGCCCTTCTTCAGCAACCAGAGCAGCAGCGCC
TTCTGTGAGCAGGTCTTCATCAAGCCCGAGTTTTCTGTCTCTGGGCATCGTCAGTCTGCTGGAAAACA
TCCTGGTTATCCTGGCCGTGGTCAGGAACGGCAACCTGCACTCCCGATGTACTTCTTCTGTCAGCCT
GGCGGTGGCCGACATGCTGGTAAGTGTGTCCAATGCCCTGGAGACCATCATGATCGCCATCGTCCACAGC
GACTACCTGACCTTCGAGGACCAGTTTATCCAGCACATGGACAACATCTTCGACTCCATGATCTGCATCT
CCCTGGTGGCCTCCATCTGCAACCTCCTGGCCATCGCCGTGACAGGTACGTACCATCTTTTACGCGCT
CCGCTACCACAGCATCATGACCGTGAGGAAGGCCCTCACCTTGATCGTGGCCATCTGGGTCTGCTGCGGC
GTCTGTGGCGTGGTGTTCATCGTCTACTCGGAGAGCAAAATGGTCATTGTGTGCCTCATCACCATGTTCT
TCGCCATGATGCTCCTCATGGGCACCCTACTGTCACATGTTCTCTTTGCGCGCTGCACGTCAAGCG
CATAGCAGCACTGCCACCTGCCGACGGGTGGCCCCACAGCAACTCATGCATGAAGGGGGCAGTCACC
ATCACCATTCTCCTGGGCGTGTTCATCTCTGCTGGGCCCTTCTTCCACCTGGTCCCTCATCATCA
CCTGCCCCACCAACCCCTACTGCATCTGCTACTGCCCCACTTCAACACCTACCTGGTCCCTCATGTG
CAACTCCGTCATCGACCACTCATCTACGCTTCCGGAGCCTGGAATTGCGCAACACCTTTAGGGAGATT
CTCTGTGGCTGCAACGGCATGAACCTGGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC215195 representing NM_019888
Red=Cloning site Green=Tags(s)

MSIQKKYLEGDFVFPVSSSSFLRTLLEPQLGSALLTAMNASCCLPVQPTLPNGSEHLQAPFFSNQSSSA
 FCEQVFIKPEVFLSLGIVSLLLENILVILAVVRNGLHSPMYFFLCSLAVADMLVSVSNALETIMIAIVHS
 DYLTFFEDQFIQHMDNIFDSMICISLVASICNLLAIAVDRYVTIFYALRYHSIMTVRKALTLIVAIWVCCG
 VCGVVFIVYSESKMVIVCLITMFFAMLLMGTLYVHMFLFARLHVKRIAALPPADGVAPQQHSCMKGAVT
 ITILLGVFIFCWAPFFLHLVLIITCPTNPYCICYTAHFNTYLVLIMCNSVIDPLIYAFRSLELRNTFREI
 LCGCNGMNLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6110_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_019888

ORF Size: 1080 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_019888.2](#), [NP_063941.2](#)

RefSeq Size: 1083 bp

RefSeq ORF: 972 bp

Locus ID: 4159

UniProt ID: [P41968](#)

Cytogenetics: 20q13.2

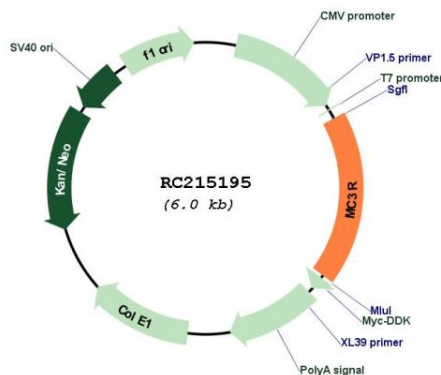
Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 35.9 kDa

Gene Summary: 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]

Product images:



Circular map for RC215195