

Product datasheet for **RG215195**

MC3R (NM_019888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MC3R (NM_019888) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MC3R
Synonyms:	BMIQ9; MC3; MC3-R; OB20; OQTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215195 representing NM_019888 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCATCCAAAAGAAGTATCTGGAGGGAGATTTTGTCTTTCCTGTGAGCAGCAGCAGCTTCTACGGA
CCCTGTGGAGCCCCAGCTCGGATCAGCCCTTCTGACAGCAATGAATGCTTCGTGCTGCCTGCCCTGT
TCAGCCAACACTGCCTAATGGCTCGGAGCACCTCAAGCCCTTCTTCAGCAACCAGAGCAGCAGCGCC
TTCTGTGAGCAGGTCTTCATCAAGCCCGAGTTTTCTGTCTCTGGGCATCGTCAGTCTGCTGGAAAACA
TCCTGGTTATCCTGGCCGTGGTCAGGAACGGCAACCTGCACTCCCGATGTACTTCTTCTGTCAGCCT
GGCGGTGGCCGACATGCTGGTAAGTGTGTCCAATGCCCTGGAGACCATCATGATCGCCATCGTCCACAGC
GACTACCTGACCTTCGAGGACCAGTTTATCCAGCACATGGACAACATCTTCGACTCCATGATCTGCATCT
CCCTGGTGGCCTCCATCTGCAACCTCCTGGCCATCGCCGTGACAGGTACGTACCATCTTTTACGCGCT
CCGCTACCACAGCATCATGACCGTGAGGAAGGCCCTCACCTTGATCGTGGCCATCTGGGTCTGCTGCGGC
GTCTGTGGCGTGGTGTTTCATCGTCTACTCGGAGAGCAAATGGTCATTGTGTGCCTCATCACCATGTTCT
TCGCCATGATGCTCCTCATGGGCACCCTCTACGTGCACATGTTCTCTTTGCGCGGCTGCACGTCAAGCG
CATAGCAGCACTGCCACCTGCCGACGGGTGGCCCCACAGCAACTCATGCATGAAGGGGGCAGTCACC
ATCACCATTCTCCTGGGCGTGTTCATCTCTGCTGGGCCCTTCTTCCACCTGGTCCCTCATCATCA
CCTGCCCCACCAACCCCTACTGCATCTGCTACTGCCCCACTTCAACACCTACCTGGTCCCTCATGTG
CAACTCCGTCATCGACCACTCATCTACGCTTTCGAGCCTGGAATTGCGCAACACCTTTAGGGAGATT
CTCTGTGGCTGCAACGGCATGAACCTGGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215195 representing NM_019888
Red=Cloning site Green=Tags(s)

```
MSIQKKYLEGDFVFPVSSSSFLRTLLEPQLGSALLTAMNASCCLPVQPTLPNGSEHLQAPFFSNQSSSA
FCEQVFIKPEVFLSLGIVSLLLENILVILAVVRNGLHSPMYFFCLSLAVADMLVSVSNALETIMIAIVHS
DYLTFEDQFIQHMDNIFDSMICISLVASICNLLAIAVDRYVTIFYALRYHSIMTVRKALTLIVAIWCCG
VCGVVFIVYSESKMIVIVCLITMFFAMMLLMGTLVYHMFLLFARLHVKRIAALPPADGVAPQQHSCMKGAVT
ITILLGVFIFCWAPFFLHLVLIITCPTNPYCICYTAHFNTYLVLIMCNSVIDPLIYAFRSLELRNTFREI
LCGCNGMNLG
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

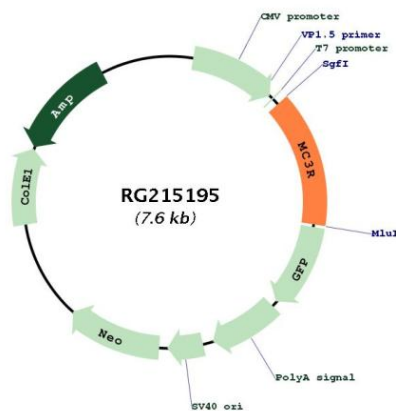
Cytogenetics: 20q13.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

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 RG215195