

## Product datasheet for **MG221838**

### Mc5r (NM\_013596) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mc5r (NM_013596) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mc5r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221838 representing NM_013596 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAAGACCAGAGCCCGGTAACAGAAGATTCAACTCCCAGAAACCGCCTGGAACCCGTGAAGAATCAT  
GCTTACCTTTGCGCGGAGCAGAGCAGAAATGGTAAATCCGATGCCAAGAAGTGGGGCATTCTCTCCAGC  
AATGAACCTCCTCCACCCTGACTGTATTGAATCTTACCCTGAACGCCTCAGAGGATGGCATTITAGGA  
TCAAATGTCAAGAACAAGTCTTTGGCCTGTGAAGAAATGGGCATTGCCGTGGAGGTTCCTGACCCTGG  
GTCTCGTCAGCCTTTAGAGAACATCTGGTCATTGGGGCCATAGTAAAGAACAAAAACCTGCACCTCACC  
CATGTACTTCTATGTGGCAGCTTAGCCGTGGCCGACATGCTGGTGAGCATGTCCAATGCCTGGGAGACT  
GTCACCATATACTTGCTAAATAATAAACACCTGGTGATAGCCGACACCTTTGTGCGACACATCGACAACG  
TGTTCCGACTCCATGATCTGCATCTCTGTGGTGGCCTCGATGTGCAGTTTGTGGCCATTGCGGTGGACAG  
GTACATCACCATCTTCTATGCCTTGCCTACCACCACATCATGACCGCGAGGCGCTCGGGGGTGATCATC  
GCCTGCATCTGGACCTTCTGCATAAGCTGCGGCATTGTTTTCATCATCTACTATGAGTCCAAGTATGTGA  
TCATTTGCCTCATCTCCATGTTCTTACCATGCTGTTCTTCATGGTGTCTCTGTATATACACATGTTCTC  
CCTGGCCCGAACCATGTCAAGCGGATAGCAGCTTCCCCAGATACTCCGTGAGGCAAAGGACCAGC  
ATGAAGGGGGCTATTACCCTCACCATGCTACTGGGGATTTTCATTGTCTGCTGGTCTCCCTCTTTCTTC  
ACCTTATCTTAATGATCTCCTGCCCTCAGAACGCTACTGCTCTTGCTTTATGTCTACTTCAACATGTA  
CCTTATACTCATCATGTGCAACTCCGTGATCGATCCTCTCATCTACGCCCTCCGAGCCAAGAGATGCGG  
AGGACCTTAAGGAGATCGTCTGTTGTACGGATTCCGGCGACCTGTAGGCTCCTTGGCGGGTAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221838 representing NM\_013596  
Red=Cloning site Green=Tags(s)

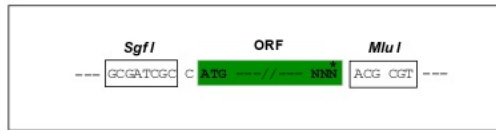
MQDQSPVNRFRNSQKPPGTREESCLPLRGAEQNGKSDAKKWGHSLPAMNSSSTLTVLNLTLNASEDGILG  
 SNVKNKSLACEEMGIAVEVFLTLGLVSLLENILVIGAIVKNKLNHSPMYFYVGLAVADMLVMSNAWET  
 VTIYLLNNKHLVIADTFVRHIDNVFDSMICISVVMCSLLAIIVDRYITIFYALRYHHIMTARRSGVII  
 ACIWTFCISCGIVFIIYYESKYVVICLISMFFTMLFFMVSLYIHMFLARNHVKRIAASPRYNSVRQRTS  
 MKGAILTMLLGI FIVCWSPFFLHLILMISCPQNVYCSCFMSYFNMYLILIMCNSVIDPLIYALRSQEMR  
 RTFKEIVCCHGFRRPCRLGGY

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_013596

**ORF Size:** 1116 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\\_013596.2](#), [NP\\_038624.2](#)

**RefSeq Size:** 1162 bp

**RefSeq ORF:** 1119 bp

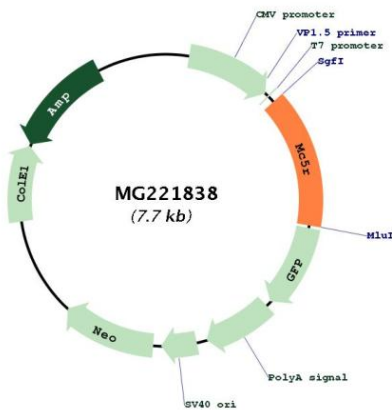
**Locus ID:** 17203

**UniProt ID:** [P41149](#)

**Cytogenetics:** 18 41.46 cM

**Gene Summary:** Receptor for MSH (alpha, beta and gamma) and ACTH. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. This receptor is a possible mediator of the immunomodulation properties of melanocortins.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG221838