

Product datasheet for **MG222541**

Mc1r (NM_008559) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mc1r (NM_008559) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mc1r
Synonyms: e; Mcr1; Mshra; Tob
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222541 representing NM_008559
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCA**CTCAGGAGCCCCAGAAGAGTCTTCTGGGTTCTCTCAACTCCAATGCCACCTCTCACCTTGGAC**
TGGCCACCAACCAGTCAGAGCCTTGGTGCCTGTATGTGTCCATCCCAGATGGCCTCTTCCTCAGCCTAGG
GCTGGTGAGTCTGGTGGAGAATGTGCTGGTTGTGATAGCCATCACAAAAACCGCAACCTGCACTCGCCC
ATGTATTACTTCATCTGCTGCCTGGCCCTGTCTGACCTGATGGTAAGTGCAGCATCGTGCTGGAGACTA
CTATCATCTGCTGCTGGAGCGGGCATCTGGTGGCCAGAGTGGCTTTGGTGCAGCAGCTGGACAACCT
CATTGACGTGCTCATCTGTGGCTCCATGGTGTCCAGTCTCTGCTTCTGGGCATCATTGCTATAGACCGC
TACATCTCCATCTTCTATGCGCTGCGTTATCACAGCATCGTGACGCTGCCAGAGCACGACGGGCTGTCG
TGGGCATCTGGATGGTCAGCATCGTCTCCAGCACCCCTCTTTATCACCTACTACAAGCACACAGCCGTTCT
GCTCTGCCTCGTCACTTTCTTTCTAGCCATGCTGGCACTCATGGCGATTCTGTATGCCACATGTTACAG
AGAGCGTGCCAGCACGCTCAGGGCATTGCCAGCTCCAAAAAGGCGCGGTCCATCCGCCAAGGCTTCT
GCCTCAAGGGTGTGCCACCCTTACTATCCTTCTGGGGATTTCTTCTGTGCTGGGGCCCTTCTTCTCT
GCATCTCTTGTCTCATCGTCTCAGCTCCACTGTTGACCCCTCATCTATGCTTTCCGACGCCAGGAGCTCC
GCATGACACTCAAGGAGGTGCTGCTGTCTCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222541 representing NM_008559
 Red=Cloning site Green=Tags(s)

MSTQEPQKSLGSLNSNATSHLGLATNQSEPWCLYVSI PDGLFLSLGLVSLVENLVVIAITKRNRLHSP
 MYYFICCLALSDLMVSIVLETTIILLLEAGILVARVALVQQLDNLIDVLCGSMVSSLCFLGIIAIDR
 YISIFYALRYHSIVTLPRARRAVVGIWMVSI VSTLFIITYYKHTAVLLCLVTFFLAMLALMAILYAHMFT
 RACQHAQGIAQLHKRRRSIRQGFCLKGAATLTILLGIFFLCWGPFFLHLLLIIVLCPQHPTCSCIFKNFNL
 FLLLIVLSSTVDPLIYAFRSQELRMTLKEVLLCSW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008559

ORF Size: 945 bp

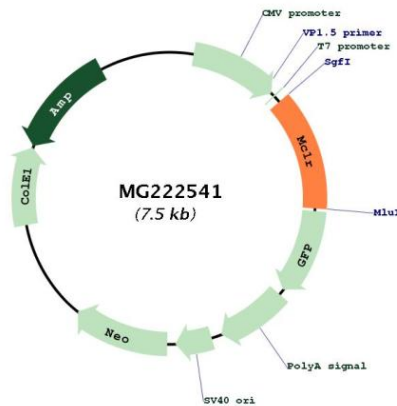
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.

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_008559.2](#), [NP_032585.2](#)
- RefSeq Size:** 3670 bp
- RefSeq ORF:** 948 bp
- Locus ID:** 17199
- UniProt ID:** [Q01727](#)
- Cytogenetics:** 8 72.1 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222541