

Product datasheet for **RR202759**

Mc4r (NM_013099) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mc4r (NM_013099) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mc4r
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR202759 representing NM_013099
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCCACCCACCACCATGGCATGTACTTCCCTCCACCTCTGGAACCGCAGCAGCCACGGGCTGC
ACGGCAATGCCAGCGAGTCTCTGGGAAGGGGCACTCAGACGGAGGATGCTATGAGCAACTTTTTGTCTC
CCCCGAGGTGTTTGTGACTCTGGGTGTCATAAGCCTGTTGGAGAACATTCTAGTGATCGTGGCGATAGCC
AAGAACAAGAACCTGCACTCACCCATGACTTTTTTCATCTGTAGTCTGGCTGTGGCGACATGCTGGTGA
GCGTTTTGAAACGGGTGAGAAACCATCGTCATCACCTGCTAAACAGTACGGACACGGACGCCAGAGCTT
CACCGTGAATATTGATAATGTCATTGACTCTGTGATCTGTAGCTCCTTGCTCGCATCCATTTGCAGCCTG
CTTCCATTGCAGTGGACAGGTATTTCACTATCTTTACGCGCTCCAGTACCATAACATTATGACGGTTA
GGCGGGTCGGGATCATCATCAGTTGTATCTGGGCAGCTTGCACAGTATCGGGCGTTCTTTTTATCATTTA
CTCGGACAGCAGCGCTGTCATCATCTGCCTCATTACCATGTTCTTACCATGCTGGTTCTCATGGCCTCT
CTCTATGTCCACATGTTCTGATGGCGAGGCTTACATTAAGAGGATCGCTGTCTCCGGGCACGGGTA
CCATCCGACAGGGTGCCAACATGAAGGGCGCAATTACCTTGACCATTCTGATTGGAGTGTGTTGTCTG
CTGGGCCCGTTTTCTCCATTTACTGTTCTACATCTCTTGCTCAGAAATCCATACTCGTGTGCTTC
ATGTCTATTTAACTTGTATCTCATACTGATCATGTGTAACGCTGTCATCGACCCTCTCATTTATGCC
TGGGAGTCAAGAACTGAGGAAAACCTTCAAAGAGATCATCTGTTTCTACCCCTGGGAGGCATCTGTGA
GTTACCTGGCAGGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202759 representing NM_013099
 Red=Cloning site Green=Tags(s)

MNSTHHHGMYSLHLWNRSSHGLHGNASESLGKGHSDDGGCYEQLFVSPEVFTLVGISLLENILVIVAIA
 KNKNLHSPMYFFICSLAVADMLVSVSNGSETIVITLLNSTDTDAQSFTVNIDNVIDSVICSSLLASICSL
 LSIADVRYFTIFYALQYHNIMTVRRVGIISCIWAACTVSGVLFIIYSDSSAVIICLITMFFTMLVLMAS
 LYVHMFLMARLHIKRIAVLPGTGTIRQGANMKGAITLTILIGVFVVCWAPFFLHLLFYISCPQNPYCVCF
 MSHFNLYLILIMCNAVIDPLIYALRSQELRKTKEIICFYPLGGICELPGRY

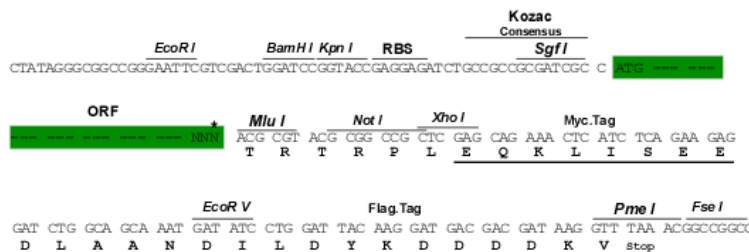
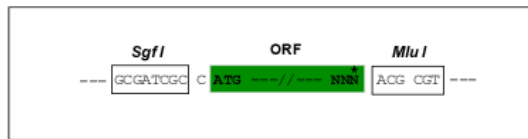
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2006_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

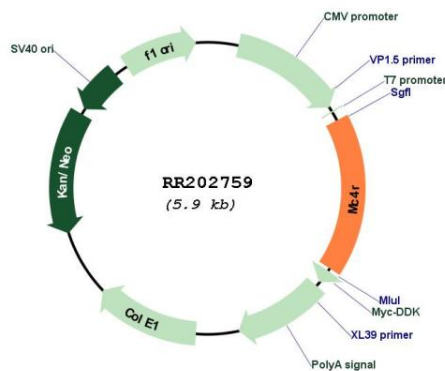
ACCN: NM_013099

ORF Size: 996 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:	<ol style="list-style-type: none"> 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:	<u>NM_013099.2</u> , <u>NP_037231.1</u>
RefSeq Size:	1888 bp
RefSeq ORF:	999 bp
Locus ID:	25635
UniProt ID:	<u>P70596</u>
Cytogenetics:	18q12.1
MW:	37.3 kDa
Gene Summary:	receptor involved in maintaining energy homeostasis [RGD, Feb 2006]

Product images:


Circular map for RR202759