

Product datasheet for **MC208946**

Mc4r (NM_016977) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mc4r (NM_016977) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mc4r
Synonyms:	Fatb; Mc4-r; Pk; Pkcp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208946 representing NM_016977 Red =Cloning site Blue =ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCCACCCACCACCATGGCATGTATACTCCCTCCACCTCTGGAACCGCAGCAGCTACGGGCTGC
ACGGCAATGCCAGCGAGTCGCTGGGGAAGGGCCACCCGGACGGAGGATGCTATGAGCAACTTTTTGTTTC
CCCCGAGGTGTTGTGACTCTGGGTGCATAAGCCTGTTGGAGAACATTCTAGTGATCGTGGCGATAGCC
AAGAACAAGAACCTGCACTACCCATGTACTTTTTCATCTGTAGCCTGGCTGTGGCAGATATGCTGGTGA
GCGTTTTGAATGGTTCGAAACCATCGTCATTACCCTGTTAAACAGTACGGATACGGATGCCAGAGCTT
CACCGTGAACATTGATAATGTCATTGACTCTGTGATCTGTAGCTCCTTGCTCGCATCCATTTGCAGCCTG
CTTTCCATTGCGGTGGACAGGATTTTCACTATCTTTTACGCGCTCCAGTACCATAACATCATGACGGTTA
GGCGGGTCCGGATCATCATAAGTTGTATCTGGGCAGCTTGCACTGTGTCAGGCGTCTCTTCATCATTTA
CTCGGACAGCAGCGCTGTATCTGCCTCATTCCATGTTCTTCACTATGCTAGTTCTCATGGCCTCT
CTCTATGTCCACATGTTCTGATGGCGAGGCTTACATTAAGAGGATTGCTGTCTCCAGGCACAGGGA
CCATCCGCCAGGTTACCAACATGAAGGGGGCGATTACCTTGACCATCCTGATTGGAGTCTTTGTTGTCTG
CTGGGCCCCGTTCTTTCTCCATTTACTGTTCTACATCTCTTGCCTCAGAATCCATACTGCGTGTGCTTC
ATGTCTCATTTTAAATTTGTATCTCATACTGATCATGTGTAACGCCGTCATCGACCCTCTCATTTATGCC
TCCGGAGTCAAGAACTGAGGAAAACCTTCAAGAGATCATCTGTTTCTATCCTCTGGGAGGCATCTGTGA
GTTGTCTAGCAGGTATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_016977
Insert Size:	999 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC116957 , AAI16958
RefSeq Size:	1126 bp
RefSeq ORF:	999 bp
Locus ID:	17202
UniProt ID:	P56450
Cytogenetics:	18 E1
Gene Summary:	This gene encodes a member of the melanocortin receptor family. Melanocortin receptors are transmembrane G-protein coupled receptors, which respond to small peptide hormones and exhibit diverse functions and tissue type localization. As part of the central nervous melanocortin system, the encoded protein is competitively bound by either melanocyte stimulating hormone or agouti-related protein to regulate energy homeostasis. Disruption of this gene promotes hyperphagia and obesity, and is associated with increased cholesterol levels and insulin resistance. [provided by RefSeq, Dec 2012]