

Product datasheet for MC208945

Mc3r (NM_008561) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mc3r (NM_008561) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mc3r
Synonyms:	MC3-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208945 representing NM_008561 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAACTTTCCTGCTGCCTGTCTTCTGTTTCTCCGATGCTGCCTAACCTCTCTGAGCACCTGCAGCCC
CTCCTGCCAGCAACCGGAGCGGCAGTGGTTCTGTGAGCAGGTCTTCATCAAGCCGGAGGTCTTCTCTGGC
TCTGGGCATCGTCAGTCTGATGGAAAACATCCTGGTGATCCTGGCTGTGGTCAGGAATGGCAACCTGCAC
TCTCCCATGTACTTCTTCTGTGCAGCCTGGCTGCAGCCGACATGCTGGTGAGCCTGTCCAACCTCCCTGG
AGACCATCATGATCGCCGTGATCAACAGCGACTCCCTGACCTTGGAGGACCAGTTTATCCAGCACATGGA
TAATATCTTCGACTCTATGATTTGCATCTCCCTGGTGGCCTCCATCTGCAACCTCCTGGCCATTGCCATC
GACAGGTACGTCACCATCTTCTATGCCCTTCGGTACCACAGCATCATGACAGTGAGGAAAGCCCTCACCT
TGATCGGGGTATCTGGGTCTGCTGCGGCATCTGCGGCGTGATGTTTCATCATCTACTCCGAGAGCAAGAT
GGTCATCGTGTGTCTCATACCATGTTCTTCGCCATGGTGTCTCCTCATGGGCACCCTATATATCCACATG
TTCCTCTTCGCCAGGCTCCACGTCCAGCGCATCGAGTGTGCCCCCTGCTGGCGTGGTGGCCCCACAGC
AGCACTCCTGCATGAAGGGGGTGTACCATCACTATCCTGCTGGGTGTTTTTCATCTTCTGCTGGGCGCC
TTTCTTCTCCACCTGGTCTCATCATCACCTGCCCCACCAATCCCTACTGCATCTGCTACACGGCCCAT
TTCAACACCTACCTGGTTCTCATCATGTGCAACTCCGTATCGACCCCTCATCTACGCCCTCCGAGCC
TGGAGCTGCGCAACACGTTCAAGGAGATTCTCTGCGGCTGCAACAGCATGAACTTGGGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_008561



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Insert Size:	972 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:	NM_008561.3 , NP_032587.1
RefSeq Size:	2623 bp
RefSeq ORF:	972 bp
Locus ID:	17201
UniProt ID:	P33033
Cytogenetics:	2 94.8 cM
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 and adaptation to food restriction. Disruption of this gene results in an increased ratio of weight gain to food intake, increased fat mass, and decreased lean mass, without having a large effect on insulin sensitivity or glucose metabolism. [provided by RefSeq, Dec 2012]