

Product datasheet for SC116445

MC4 Receptor (MC4R) (NM_005912) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MC4 Receptor (MC4R) (NM_005912) Human Untagged Clone
Tag:	Tag Free
Symbol:	MC4 Receptor
Synonyms:	BMIQ20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>SC116445 representing NM_005912. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGTGAAGTCCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCGCAGCAGTTACAGACTG
CACAGCAATGCCAGTGAGTCCCTTGAAAAGGCTACTCTGATGGAGGGTCTACGAGCAACTTTTTGTC
TCTCCTGAGGTGTTGTGACTCTGGGTGTATCAGCTTGTGGAGAATATCTTAGTGATTGTGGCAATA
GCCAAGAACAAGAATCTGCATTCACCCATGTACTTTTTTCATCTGCAGCTTGGCTGTGGCTGATATGCTG
GTGAGCGTTTCAAATGGATCAGAAACCATTGTCATCACCTATTAACAGTACAGATACGGATGCACAG
AGTTTCACAGTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTGC
AGCCTGCTTTCAATTGCAGTGGACAGGACTTTACTATCTTCTATGCTCTCCAGTACCATAACATTATG
ACAGTTAAGCGGTTGGGATCATCATAAGTTGTATCTGGCAGCTTGCACGGTTTCAGGCATTTTGTTC
ATCATTTACTCAGATAGTAGTGCTGTCATCATCTGCCTCATCACCATGTTCTTCACCATGCTGGCTCTC
ATGGCTTCTCTATGTCCACATGTTCCCTGATGGCCAGGCTTACATTAAGAGGATTGCTGTCTCCTCCC
GGCACTGGTGCCATCCGCCAAGGTGCCAATATGAAGGGAGCGATTACCTTGACCATCCTGATTGGCGTC
TTTGTGTCTGCTGGGCCCAATTCTTCCCTCACTTAATATTCTACATCTCTTGTCTCAGAAATCCATAT
TGTGTGTGCTTTCATGCTCACTTAACTTGTATCTCATACTGATCATGTGAATTCATCATCGATCCT
CTGATTTATGCACTCCGGAGTCAAGAACTGAGAAAACCTTCAAAGAGATCATCTGTTGCTATCCCTG
GGAGGCCCTTTGTGACTTGTCTAGCAGATATAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005912 unedited ACCTGTAATTGTAACGACTTACTATAGGCGGCCGCCAGTGTGATGGATATCTGCAGAAT TCGGCTTATGGTGAACCTCACCCACCGTGGGATGCACACTTCTCTGCACCTCTGGAACCG CAGCAGTTACAGACTGCACAGCAATGCCAGTGAGTCCCTTGAAAAGGCTACTCTGATGG AGGGTGTACGAGCAACTTTTTGTCTCTCTGAGGTGTTGTGACTCTGGGTGTCATCAG CTTGTTGGAGAATATCTTAGTGATTGTGGCAATAGCCAAGAACAAGAATCTGCATTACC CATGTACTTTTTCATCTGCAGCTTGGCTGGCTGATATGCTGGTGAGCGTTTTCAATGG ATCAGAAACCATTGTCATCACCCCTATTAACAGTACAGATACGGATGCACAGAGTTTCAC AGTGAATATTGATAATGTCATTGACTCGGTGATCTGTAGCTCCTTGCTTGCATCCATTTG CAGCCTGCTTTCAATTGCAGTGGACAGGTACTTTACTATCTTCTATGCTCTCCAGTACCA TAACATTATGACAGTTAAGCGGGTTGGGATCATCATAAGTTGTATCTGGGAGCTTGCAC GGTTTCAGGCATTNTGTTTCATCATTACTCAGATAGTAGTGCTGCATCATCTGCCTCAT CACCATGTTCTTACCATGCTGGCTCTCATGGCTTCTCTATGTCCACATGTTCCCTGAT GGCCAGGCTTACATTAAGAGGATTGCTGTCTCCCGCACTGGTCCATCCGCCAGGTG CCAATATGAAGGGAGCGATTACCTTGACCATCCTGATTGGCGTCTTTTGTGTCTGCTGGG CCCCATTCTTNCNCACTGATATTCTACATCTTGTCCCTCAGAATCATATTGNGTGTGC TTCATGTCTCACTTTAACTGNATCTATACTGANCATGTGTAATCATCATC
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005912 unedited CGGCCGCTTTCTANGATCGACAACTTGGAAATCGGTACCGAGCTCGGATCCACTAGTAAC GGCCGCCAGTGTGCTGGAATTCGGCTTTAATATCTGCTAGACAAGTCACAAAGGCCTCC CAGGGGATAGCAACAGATGATCTCTTTGAAGTTTTCTCAGTTCTTGACTCCGGAGTGC ATAAATCAGAGGATCGATGATTGAATTACACATGATCAGTATGAGATACAAGTTAAAGTG AGACATGAAGCACACACAATAT
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_005912
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_005912.1</u>
RefSeq Size:	1438 bp

RefSeq ORF:	999 bp
Locus ID:	4160
UniProt ID:	P32245
Cytogenetics:	18q21.32
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	36.9 kDa

Gene Summary: The protein encoded by this gene is a membrane-bound receptor and member of the melanocortin receptor family. The encoded protein interacts with adrenocorticotrophic and MSH hormones and is mediated by G proteins. This is an intronless gene. Defects in this gene are a cause of autosomal dominant obesity. [provided by RefSeq, Jan 2010]