

## Product datasheet for MR219644

### Mchr1 (NM\_145132) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mchr1 (NM_145132) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mchr1
Synonyms:	AW049955; Gpr24; Mch1r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219644 representing NM_145132 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCTGCAAGCCTCGTTGCTGTCCACTGGCCCAATGCCAGCAACATCTCCGATGGCCAGGATAATT  
TCACATTGGCGGGGCCACCTCCTCGACAAGGAGTGTCTCCTACATCAACATCATCATGCCTTCAGTGTT  
TGGTACCATCTGTCTCCTGGCATTGTGGGAACTCCACAGTCATTTTTGCCGTGGTGAAGAAATCCAAG  
CTGCACTGGTGCAGCAACGTCCCTGACATCTTCATCATCAACCTCTCTGGTGGATCTGCTTTCTCTGC  
TGGCATGCCTTTCATGATCCACCAGCTCATGGGTAATGGTGTCTGGCACTTTGGGAAACCATGTGCAC  
CCTCATCACAGCCATGGACGCCAACAGTCAGTTCACCAGCACCTACATCCTGACTGCTATGGCCATTGAC  
CGCTACTTGCCACCGTCCATCCATCTCCTCCACCAAGTTCCGGAAGCCCTCCATGGCCACCCTGGTGA  
TCTGCCTCCTGTGGGCTCTCTCGTTCAATTAGCATCACTCCTGTGTGGCTCTATGCCAGGCTTATCCCTT  
CCCAGGGGGTGTGTGGGCTGTGGCATCCGCTACCAACCAGATACTGATCTTTACTGGTTCACTCTG  
TATCAGTTTTTCTGGCCTTCGCCCTCCGTTTGTGGTCACTGCTGCGTACGTGAAAATACTACAGC  
GCATGACGTCTTCGGTGGCCCCAGCCTCAACGCAGCATCCGGCTTCGGACAAAGAGGGTGACCCGCAC  
AGCCATTGCCATCTGTCTGGTCTTCTTTGTGTCTGGCGCCCTACTACGTGCTGCAGCTGACCCAGTTG  
TCCATCAGCCGCCGACCCTCACATTCTACCTGTACAATGCGGCTATCAGCTTGGGCTATGCCAACA  
GCTGCCTCAATCCCTTTGTGTACATAGTACTCTGTGAGACCTTTTCGAAAACGCTTGGTGTCTCGGTGAA  
GCCCGCGGCCAGGGCAGCTTCGCACGGTCAGCAATGCTCAGACAGCTGACGAGGAGAGACAGAAAGC  
AAAGGCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR219644 representing NM\_145132  
Red=Cloning site Green=Tags(s)

MDLQASLLSTGPNASNISDGQDNFTLAGPPPRTRSVSYINIIMPSVFGTICLLGIVGNSTVIFAVVKKSK  
 LHWCSNVPDIFIINLSVVDLLFLLGMPFMIHQLMGNGVWHFGETMCTLITAMDANSQFTSTYILTAMAID  
 RYLATVHPISSTKFRKPSMATLVICLLWALSFISITPVWLYARLIPFPGGAVGCGIRLPNPDTDL YWFTL  
 YQFFLAFALPFVVITAAYVKILQRMTSSVAPASQRSIRLRTKRVTRTAIAICLVFFVCWAPYYVLQTLQL  
 SISRPTLTFVYLYNAAISLGYANSCLNPFVYIVLCETFRKRLVLSVKPAAQGLRTVSNQAQTAEERTES  
 KGT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9019\\_g12.zip](https://cdn.origene.com/chromatograms/mm9019_g12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145132

**ORF Size:** 1059 bp

**OTI Disclaimer:** 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\\_145132.2](#), [NP\\_660114.1](#)

**RefSeq Size:** 2205 bp

**RefSeq ORF:** 1062 bp

**Locus ID:** 207911

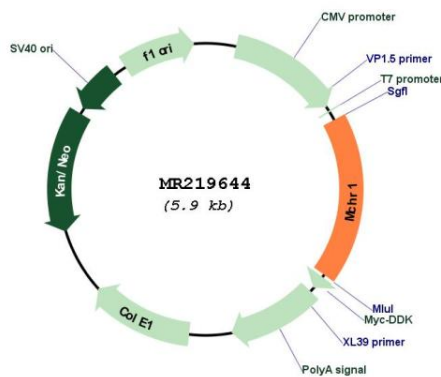
**UniProt ID:** [Q8JZL2](#)

**Cytogenetics:** 15 E1

**MW:** 39.6 kDa

**Gene Summary:** Receptor for melanin-concentrating hormone, coupled to both G proteins that inhibit adenylyl cyclase and G proteins that activate phosphoinositide hydrolysis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219644