

## Product datasheet for **RC215042**

### **MCH2 (MCHR2) (NM\_001040179) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MCH2 (MCHR2) (NM_001040179) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCH2
Synonyms:	GPR145; GPRv17; MCH-2R; MCH-R2; MCH2; MCH2R; MCHR-2; SLT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215042 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAATCCATTTTCATGCATCTTGTGGAAACACCTCTGCCGAACCTTTAAACAAATCCTGGAATAAAGAGT  
TTGCTTATCAAAGTCCAGTGTGGTAGATACAGTCATCCTCCCTCCATGATTGGGATTATCTGTTCAAC  
AGGGCTGGTTGGCAACATCCTCATTGTATTCACTATAATAAGATCCAGGAAAAAACAGTCCCTGACATC  
TATATCTGCAACCTGGCTGTGGCTGATTTGGTCCACATAGTTGGAATGCCTTTTCTTATTACCAATGGG  
CCCGAGGGGGAGAGTGGGTGTTGGGGGCCTCTCTGCACCATCATCACATCCCTGGATACTTGTAAACCA  
ATTTGCCTGTAGTGCCATCATGACTGTAATGAGTGTGGACAGGACTTTGCCCTCGTCCAACCATTTTCA  
CTGACACGTTGGAGAACAAGGTACAAGACCATCCGGATCAATTTGGGCCTTTGGGCAGCTTCTTTATCC  
TGGCATTGCCTGTCTGGGTCTACTCGAAGGTCAAAATTTAAAGACGGTGTGAGAGTTGTGCTTTTGA  
TTTGACATCCCCTGACGATGACTCTGGTATACACTTTATTTGACGATAACAACCTTTTTTTTTCCCTCTA  
CCCTTGATTTTGGTGTGCTATATTTAATTTTATGCTATACTTGGGAGATGTATCAACAGAATAAGGATG  
CCAGATGCTGCAATCCCAGTGTACAAAACAGAGAGTGATGAAGTTGACAAAGATGGTGTGGTGTGGT  
GGTAGTCTTTATCCTGAGTGTGCCCTTATCATGTGATACAACCTGGTGAACCTACAGATGGAACAGCCC  
ACACTGGCCTTCTATGTGGTTATTACCTCTCCATCTGTCTCAGCTATGCCAGCAGCAGCATTAAACCTT  
TTCTCTACATCCTGTGAGTGGAAATTTCCAGAAACGTCTGCCTCAAATCCAAGAAGAGCGACTGAGAA  
GGAAATCAACAATATGGGAAACACTCTGAAATCACACTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC215042 protein sequence  
Red=Cloning site Green=Tags(s)

MNPFHASCWNTSAELLNKSWNKEFAYQTASVVDTVILPSMIGIICSTGLVGNILIVFTIIRSRRKKTVPDI  
 YICNLAVADLVHIVGMPFLIHQWARGGEWVFGGPLCTIITSLDTCNQFACSAIMTVMSVDRYFALVQPF  
 LTRWRTRYKTIRINLGLWAASFILALPVVYYSKVIKFKDGVESCAFDLTPDDVLWYTLYLITTTFFPL  
 PLILVCYILILCYTWEMYQONKDARCCNPSVPKQRMKLTVMVLVLVVVILSAAPYHVIQLVNLQMEQP  
 TLAFYVGYLSICLSYASSSINPFLYILLSGNFQKRLPQIQRRATEKEINNMGNTLTKSHF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6599\\_g06.zip](https://cdn.origene.com/chromatograms/mk6599_g06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001040179

**ORF Size:** 1020 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\\_001040179.2](#)

**RefSeq Size:** 2368 bp

**RefSeq ORF:** 1023 bp

**Locus ID:** 84539

**UniProt ID:** [Q969V1](#)

**Cytogenetics:** 6q16.2

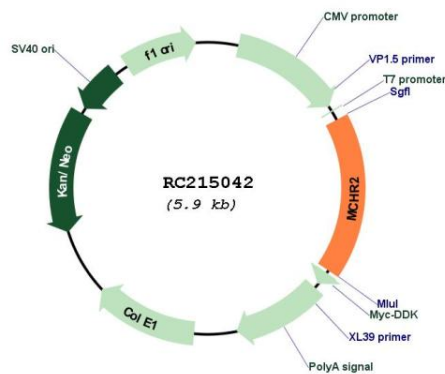
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**MW:** 38.8 kDa

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

### Product images:



Circular map for RC215042