

Product datasheet for **RG214579**

MCH2 (MCHR2) (NM_032503) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCH2 (MCHR2) (NM_032503) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MCH2
Synonyms:	GPR145; GPRv17; MCH-2R; MCH-R2; MCH2; MCH2R; MCHR-2; SLT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214579 representing NM_032503 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCCATTTTCATGCATCTTGTGGAAACACCTCTGCCGAACCTTTAAACAAATCCTGGAATAAAGAGT
TTGCTTATCAAAGTCCAGTGTGGTAGATACAGTCATCCTCCCTCCATGATTGGGATTATCTGTTCAAC
AGGGCTGGTTGGCAACATCCTCATTGTATTCACTATAATAAGATCCAGGAAAAAACAGTCCCTGACATC
TATATCTGCAACCTGGCTGTGGCTGATTTGGTCCACATAGTTGGAATGCCTTTTCTTATTCACCAATGGG
CCCGAGGGGGAGAGTGGGTGTTGGGGGCTCTCTGCACCATCATCACATCCCTGGATACTTGTAAACCA
ATTTGCCTGTAGTGCCATCATGACTGTAATGAGTGTGGACAGGACTTTGCCCTCGTCCAACCATTTTCGA
CTGACACGTTGGAGAACAAGGTACAAGACCATCCGGATCAATTTGGGCTTTGGGAGCTTCCCTTATCC
TGGCATTGCCTGTCTGGTCTACTCGAAGGTCAAAATTTAAAGACGGTGTGGAGATTGTCTTTTGA
TTTGACATCCCCTGACGATGACTCTGGTATACACTTTATTTGACGATAACAACCTTTTTTTTCCCTCTA
CCCTTGATTTTGGTGTGCTATATTTAATTTATGCTATACTTGGGAGATGTATCAACAGAATAAGGATG
CCAGATGCTGCAATCCCAGTGTACAAAACAGAGAGTGAAGTTGACAAAGATGGTGTGGTGTGGT
GGTAGTCTTTATCCTGAGTGTGCCCTTATCATGTGATACAACCTGGTGAACCTACAGATGGAACAGCCC
ACACTGGCCTTCTATGTGGTTATTACCTCTCCATGTCTCAGCTATGCCAGCAGCAGCATTAAACCTT
TTCTCTACATCCTGCTGAGTGGAAATTTCCAGAAACGCTCTGCCTCAAATCCAAGAAGAGCGACTGAGAA
GGAAATCAACAATATGGGAAACACTCTGAAATCACACTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214579 representing NM_032503
 Red=Cloning site Green=Tags(s)

MNPFHASCWNTSAELLNKSWNKEFAYQTASVVDTVILPSMIGIICSTGLVGNILIVFTIIRS RKKTVPDI
 YICNLAVADLVHIVGMPFLIHQWARGGEWVFGGPLCTIITSLDTCNQFACSAIMTVMSVDRYFALVQPFR
 LTRWRTRYKTIRINLGLWAASFILALPVVYYSKVIKFKDGVESCAFDLTSRDDVLYWTLYLITTTFFFPL
 PLILVCYILILCYTWEMYQNKDARCCNPSVPKQRVMKLTVMVLVLLVVFILSAAPYHVIQLVNLQMEQP
 TLAFYVGYLLSICLSYASSSINPFLYIILLSGNFQKRLPQIQRRATEKEINNMGNTLKSHF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032503

ORF Size: 1020 bp

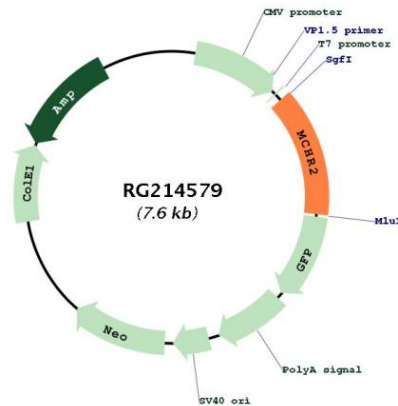
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_032503.2 , NP_115892.2
RefSeq Size:	2144 bp
RefSeq ORF:	1023 bp
Locus ID:	84539
UniProt ID:	Q969V1
Cytogenetics:	6q16.2
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	Receptor for melanin-concentrating hormone, coupled to G proteins that activate phosphoinositide hydrolysis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214579