

Product datasheet for **SC104391**

MCH2 (MCHR2) (NM_032503) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCH2 (MCHR2) (NM_032503) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCH2
Synonyms:	GPR145; GPRv17; MCH-2R; MCH-R2; MCH2; MCH2R; MCHR-2; SLT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC104391 sequence for NM_032503 edited (data generated by NextGen Sequencing)

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ATGAATCCATTTTCATGCATCTTGTGGAAACACCTCTGCCGAACCTTTAAACAAATCCTGG
AATAAAGAGTTTGCTTATCAAACAGTCCAGTGTGGTAGATACAGTCATCCTCCCTTCCATG
ATTGGGATTATCTGTTCAACAGGCTGGTTGGCAACATCCTCATTGTATTCACTATAATA
AGATCCAGAAAAAACAGTCCCTGACATCTATATCTGCAACCTGGCTGTGGCTGATTTG
GTCCACATAGTTGGAATGCCTTTTCTTATTACCAATGGGCCCGAGGGGAGAGTGGGTG
TTTGGGGGGCCTCTCTGCACCATCATCACATCCCTGGATACTTGTAAACCAATTTGCCTGT
AGTGCCATCATGACTGTAATGAGTGTGGACAGGACTTTGCCCTCGTCCAACATTTTCGA
CTGACACGTTGGAGAACAAGGTACAAGACCATCCGGATCAATTTGGGCCTTTGGGCAGCT
TCCTTTATCCTGGCATTGCCTGTCTGGGTCTACTCGAAGGTCATCAAATTTAAAGACGGT
GTTGAGAGTTGTGCTTTTGATTTGACATCCCCTGACGATGTAAGTCTGGTATACACTTTAT
TTGACGATAACAACCTTTTTTTTTCCCTCTACCCTTGATTTTGGTGTGCTATATTTAATT
TTATGCTATACTTGGGAGATGTATCAACAGAATAAGGATGCCAGATGCTGCAATCCCAGT
GTACAAAACAGAGAGTGATGAAGTTGACAAAGATGGTGCTGGTGTGGTGTAGTCTTT
ATCCTGAGTGCTGCCCTTATCATGTGATACAACCTGGTGAACCTACAGATGGAACAGCCC
ACACTGGCCTTCTATGTGGTTATTACCTCTCCATCTGTCTCAGCTATGCCAGCAGCAGC
ATTAACCTTTTCTACATCCTGCTGAGTGGAAATTTCCAGAAACGCTGCCTCAAATC
CAAAGAAGAGCGACTGAGAAGGAAATCAACAATATGGGAAACACTCTGAAATCACACTTT
TAG

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Clone variation with respect to NM_032503.2
189 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_032503 unedited</p> <pre>GGTGCACATTTGTATACGACTACTATAGGCGGCCGGAATTCGCACGAGGGAGAGGAAG GGCGCCCGGGCTGTCCGCCGCGCGGGGAGGACGCGAGCACCCAGGTGACGTCCC CGGGC TGCCGCGCGAGGGCCGGGCTCTGGCGTGGGCGCGCCCCAGGGCCCGTGGGCTGCGCGCCC GGGAAGTCTGGCGCCTGGTCCACCAGTCGCCCCCCCCGGGGCTGGCTCGCCGGTAGTG TCTGATTGCTGGGGATCCCCCTCCATCCCAGAAGCTTAATCCCTGGAAAGTCCACGA ACAATGAATCCATTTTCATGCATCTTGTGGAACACCTCTGCCGAACTTTTAAACAAATCC TGGAAATAAGAGTTTGCTTATCAAACCTGCCAGTGTGGTAGATACAGTCATCCTCCCTTCC ATGATTGGGATTATCTGTTCAACAGGGCTGGTTGGCAACATCCTCATTGTATTACTATA ATAAGATCCAGAAAAAACAGTCCCTGACATCTATATCTGCAACCTGGCTGTGGCTGAT TTGGTCCACATAGTTGGAATGCCTTTTCTTATTACCAATGGGCCCGAGGGGGAGAGTGG GTGTTTGGGGGCTCTCTGCACCATCATCACATCCCTGGATACTTGTAAACCAATTTGCC TGAGTGCCATCATGACTGTAATGAGTGTGGACAGGACTTTGCCCTCGTCCAACATTT CGACTGACACGTTGGAGAACAAGGTACAAGACCATCCGGATCAATTTGGGCCTTTGGGCA GCTTCCTTTATCCTGGCATTGCCTGTCTGGGTCTACTCCGAAGTCATCAAATTTAAAGAC GGTGTGAGAGTGTGCTTTGATTGACTCCCTGACATGACTCTGTATCACTATTGACATA CACNTNTTTCCT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_032503 unedited</p> <pre>TATGGACCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTGGTTGGTTGT TTTTTTTTTTGAGATGACGTCTACTCTATTGCCAAGCTGGAGTGCAGTGGCGTGATC TCGGCTCACTGTAACCTCCACCTCCTGGGTTCAAGCAATTCCTGCCTCAGCCTCCTGA GTAGCTGGGACTACAGGCACACACCACCATGCTCGGCTAATCTTTTTTTATTTTAGTAG ACAGGGTCTCACTATGTTGGCCAGACTGGTCTTGAACCTCTGACTTTGTGATCCACCTGC CTCCACCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCACCCGGCCAGGAATGTT TCCTAATTATGCTTAAAGTCCAGAAGTAAAGTATTATTATAAAGTGCAGATGCCAGTTT CTACAGTTAGCAGGTGTGAGAACAAGATAATCCAAAATGATGCTTAAAACATCAACTCA TTTCTATCAGACTTTAGTTCTCCTTGTAGGGCTACAGGAGAAAAGCAAAAAGAACTCCA AGTTACTGGGTTCTCCAGTATGATAAGTAAAGTTGTCAAGGTCGTGCAGTAGAAAAGAA ACAGGCAGAGCTGAATGTTAGCTCAGCTCTTAGATAGCTGTTGCAGCATTAGGCCTATCA TTTCTCCTTTCTGAGCCTTAGCAAACAAGGTAATAATACTTATTTACAGGTTTGTGTTAC ATGTAATCTTACACATTGCATGTGTGCAATAAATGGTAACCTTATTCTAAAAGGGGGGCT TATTGTTGAGGGTTTANTATTGGACATATAAAAACCTGACATTTTTTATANATAAAAATACC CAATTTTAGACTTACTCTAAGGGGAAACCTCCTTAGAAACCTTGAGAACTGTACAGTGA GGCCACATGTGGAGGCAAGGTCAAGTCCCTGGGGAGTTTGAGTCATGCTCCTGGATGGCA TTTCATAAGACCACTAAAATGCGG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_032503
Insert Size:	2840 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:

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_032503.1](#), [NP_115892.1](#)

RefSeq Size: 1330 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]
Transcript Variant: This variant (2) uses a different splice site in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.