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Product datasheet for RC205316

MCH (PMCH) (NM_002674) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCH (PMCH) (NM_002674) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCH
Synonyms:	MCH; ppMCH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205316 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAAAAATGAATCTCTCTTCCTATATATTAATACTAACTTTTTCTTTGTTTTCTCAAGGTATTTTAC
TTTCAGCATCCAAGTCCATAAGAAATTTAGATGATGACATGGTATTTAATACATTCAGGTTGGGGAAAGG
CTTTCAGAAGGAAGACACTGCAGAAAAATCAGTTATTGCTCCTTCCCTGGAACAATATAAAAATGATGAG
AGCAGTTTCATGAACGAAGAGGAAAATAAAGTTTCAAAGAACACAGGCTCCAAACATAATTTCTTAAATC
ATGGTCTGCCACTGAATCTGGCTATAAAACCTTATCTTGCACTAAAAGGATCTGTAGCTTTCCCAGCTGA
GAATGGAGTTCAGAATACTGAATCAACACAAGAAAAGAGAGAAATTGGGGATGAAGAAAACTCAGCTAAA
TTTCCTATAGGAAGGAGAGATTTTGACATGCTCAGATGTATGCTGGGAAGAGTCTACCGACCTTGTTGGC
AAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205316 protein sequence
Red=Cloning site Green=Tags(s)

MAKMNLSSYILILTFSLFSQGILLSASKSIRNLDDDMVFNTFRLGKGFQKEDTAEKSVIAPSLEQYKNDE
SSFMNEEENKVSKNTGSKHNFLNHGLPLNLAIKPYLALKGSVAFPAENGVQNTESTQEKREIGDEENSAK
FPIGRRDFDMLRCMLGRVYRPCWQV

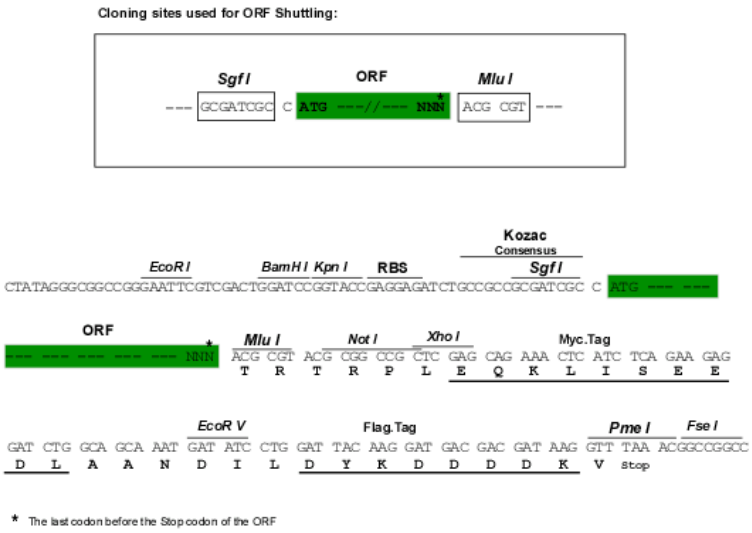
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6026_d10.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002674

ORF Size: 495 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_002674.4

RefSeq Size: 757 bp

RefSeq ORF: 498 bp

Locus ID: 5367

UniProt ID: P20382

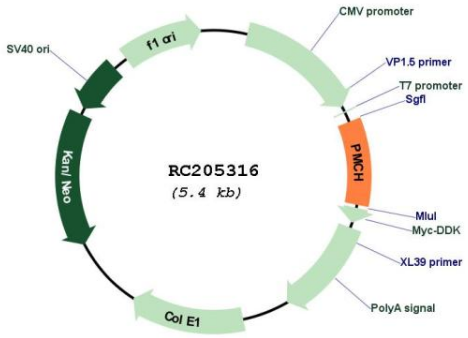
Cytogenetics: 12q23.2

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

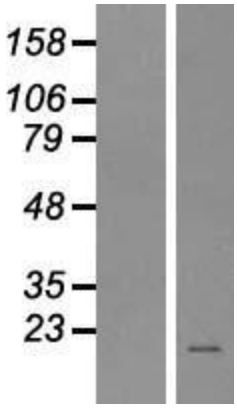
MW: 18.7 kDa

Gene Summary: This gene encodes a preproprotein that is proteolytically processed to generate multiple protein products. These products include melanin-concentrating hormone (MCH), neuropeptide-glutamic acid-isoleucine (NEI), and neuropeptide-glycine-glutamic acid (NGE). Melanin-concentrating hormone is a 19-amino acid neuropeptide that stimulates hunger and may additionally regulate energy homeostasis, reproductive function, and sleep. Pseudogenes of this gene have been identified on chromosome 5. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC205316



Western blot validation of overexpression lysate (Cat# [LY419178]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205316 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).