

Product datasheet for **RG205316**

MCH (PMCH) (NM_002674) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: MCH
Synonyms: MCH; ppMCH
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205316 representing NM_002674
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAAAATGAATCTCTCTCTCTATATTAATACTAACTTTTTCTTTGTTTTCTCAAGGTATTTTAC
TTTCAGCATCCAAGTCCATAAGAAATTTAGATGATGACATGGTATTTAATACATTTCAGGTTGGGAAAGG
CTTTCAGAAGGAAGACACTGCAGAAAAATCAGTTATTGCTCCTCCCTGGAACAATATAAAATGATGAG
AGCAGTTTCATGAACGAAGAGGAAAAATAAGTTTCAAAGAACACAGGCTCCAACATAATTTCTTAAATC
ATGGTCTGCCACTGAATCTGGCTATAAACTTATCTTGCACTAAAGGATCTGTAGCTTTCCAGCTGA
GAATGGAGTTCAGAATACTGAATCAACACAAGAAAAGAGAGAAATTGGGGATGAAGAAACTCAGCTAAA
TTTCTATAGGAAGGAGAGATTTTGACATGCTCAGATGTATGCTGGGAAGAGTCTACCGACCTTGTGGC
AAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205316 representing NM_002674
Red=Cloning site Green=Tags(s)

MAKMNLSYILILTFSLFSQIGILLSASKSIRNLDDDMVFNTFRLGKGFKEDTAEKSVIAPSLEQYKNDE
SSFMEENKVKNTGSKHNLNHLPLNLAIKPYLALKGSVAFFAENGQNTSTQEKREIGDEENSAK
FPIGRRDFDMLRCMLGRVYRPCWQV

TRTRPLE - GFP Tag - V

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:

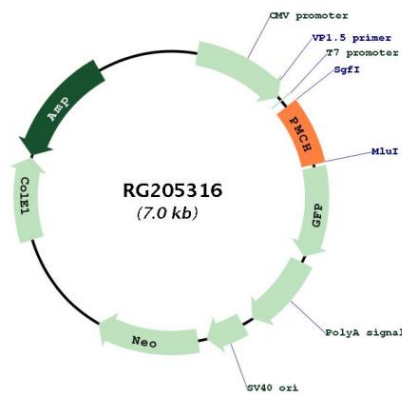
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

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
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 RG205316