

Product datasheet for **MG201335**

Pmch (BC048534) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pmch (BC048534) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pmch
Synonyms: MCH
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201335 representing BC048534
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAAAGATGACTCTCTCTTCTACATGTTAATGCTGGCTTTTTCTTTGTTTTCTCAAGGTATTTTAC
 TTTTCAGCTTCCAAGTCCATAAGGAATTTGGAAGATGACATAGTATTTAATACATTTTCAATGGGAAAGC
 CTTTCAGAAGGAAGATACTGCAGAAAGATCCGTTGTGCGCCCTTCTCTGGAACAATACAAAAACGACGAG
 AGCGGTTTCATGAACGATGATGACAATAAGAATCAAAGAACACAGGCTCCAACAGAATCTTGTAACT
 ACGGGCTGCCACTGAGTCTGGCTGTAAACCTTACCTCGCTCTGAAAGGATCCGTAGCCTTCCCAGCTGA
 GAATGGAGTTCAGAATGCTGAGTCCACACAGGAAAAGAGAGAAACTGGGGATGAAGAAAACCTCAGCTAAA
 TTTCCCATAGGAAGGAGAGATTTTGACATGCTCAGGTGTATGCTGGGAAGAGTCTACCGACCATGTTGGC
 AAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201335 representing BC048534
 Red=Cloning site Green=Tags(s)

MAKMTLSSYMLMLAFSLFSQGILLSASKSIRNLEDDIVFNTFRMGKAFQKEDTAERSVAVAPSLEQYKNDE
 SGFMNDDDNKNSKNTGSKQNLVTHGLPLSLAVKPYLALKGSVAFPAENGVQNAESTQEKRETGDEENSAK
 FPIGRDFDMLRCMLGRVYRPCWQV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

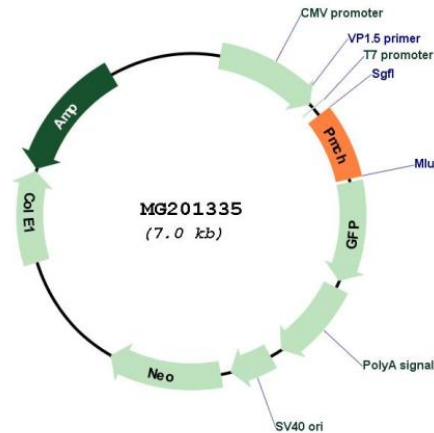


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Cloning Scheme:



Plasmid Map:



ACCN: BC048534

ORF Size: 497 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:	<u>BC048534</u> , <u>AAH48534</u>
RefSeq Size:	774 bp
RefSeq ORF:	497 bp
Locus ID:	110312
Cytogenetics:	10 43.7 cM
Gene Summary:	This gene encodes a preproprotein that is cleaved to produce three mature peptides: melanin concentrating hormone, neuropeptide-glutamic acid-isoleucine (NEI), and neuropeptide-glycine-glutamic acid (NGE). The proprotein is processed differently depending on the tissue where it is expressed. Melanin concentrating hormone is involved in the regulation of food intake, energy homeostasis, and sleep-wake behavior. Disruption of this gene is associated with resistance to diet-induced obesity. [provided by RefSeq, May 2013]