

Product datasheet for **MG201486**

Cabp5 (NM_013877) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cabp5 (NM_013877) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cabp5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201486 representing NM_013877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGTTTCCAATGGTCTGCCTGCATCTTCTTGAGAAAAGGCATTGCTGAAAAGCAGCGGGAGAGAC
 CACTGGGACAGGATGAGCTTGATGAGCTCCGGGAAGCATTTCTGAATTTGACAAGGACCAAGATGGGTT
 CATCTCTTACAAGGATTTGGGCAATCTCATGAGAACGATGGGTTACATGCCTACAGAGATGGAGTTGACT
 GAGTTGGGCCAGCAAATCCGAATGAACCTTGGTGGCCGTGTAGACTTTGAAGACTTTGTGGAAGTATGA
 CCCCAAATTGCTTGCAGAGACAGCAGGGATGATTGGTGTCCAGGAGATGCGAGATGCCTTCAAGGAGTT
 TGATGCCAATGGAGATGGGGAGATCACACTGGCAGAACTGCAGCAGGCCATGCAGAGGCTGCTGGGGGAG
 AAGCTCACACCCCGGAGATTGCTGAGGTGGTACAGGAGCTGATATCAATGGAGATGGCACTGTTGACT
 TTGAAGAGTTTGTGAAGATGATGTCCTCGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201486 representing NM_013877
 Red=Cloning site Green=Tags(s)

MQFPMGPACIFLRKGIQERERPLGQDELDELREAFLEFDKQDGFISYKDLGNLMRTMGYMPTEMLT
 ELGQQIRMNLGGRVDFEDFVELMTPKLLAETAGMIGVQEMRDAFKEFDANGDGEITLAELQQAMQRLLGE
 KLTPREIAEVVQEADINGDGTVDFFVFKMMSR

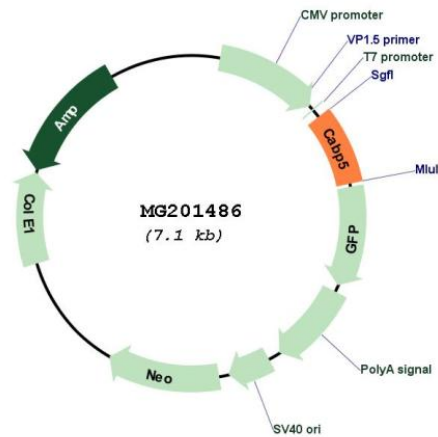
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_013877

ORF Size: 519 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>NM_013877.3</u> , <u>NP_038905.1</u>
RefSeq Size:	1746 bp
RefSeq ORF:	522 bp
Locus ID:	29865
UniProt ID:	<u>Q9JLK3</u>
Cytogenetics:	7 A1
Gene Summary:	Inhibits calcium-dependent inactivation of L-type calcium channel and shifts voltage dependence of activation to more depolarized membrane potentials (PubMed:18586882). Involved in the transmission of light signals (PubMed:18586882). May positively regulate neurotransmitter vesicle endocytosis and exocytosis in a salt-dependent manner (PubMed:22039235). May play a role in the extension and network organization of neurites (PubMed:22039235).[UniProtKB/Swiss-Prot Function]