

Product datasheet for **MG201540**

Mpv17 (NM_008622) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mpv17 (NM_008622) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mpv17
Synonyms: Tg.Mpv17
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201540 representing NM_008622
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACTCTGGCGAGCATACCAGAGAGCCCTGGCAGCACATCCGTGAAAGTCCAGGTTCTGACAGCTG
 GATCACTGATGGGCGTAGGTGACATGATCTCACAGCAGCTGGTGGAGAGGCGGGTCTCCAGCAACACCA
 GGCAGGCCGCACTCTGACCATGGTATCCCTGGGCTGTGGCTTTGTGGCCCTGTCGTCGGAGGCTGGTAC
 AAAGTTTTAGACCACTTAATCCCGGCCACCACGAAGGTGCATGCACTGAAGAAGATGTTGTTAGATCAGG
 GGGGCTTTGCCCATGTTTCTAGGCTGCTTTCTCCCACTGGTGGGATACTCAATGGAATGTCAGCCCA
 GGACAATTGGGCCAACTGAAGCGGGACTACCCTGATGCCTCATCACCACCACTACTATCTCTGGCCTGCT
 GTGCAGTTAGCCAACTTCTACCTGGTCCCCTGCATTACAGGTTGGCTGTTGTCCAGTGTGTTGCTATTG
 TCTGGAACCTACCTATCCTGGAAGGCACATCAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201540 representing NM_008622
 Red=Cloning site Green=Tags(s)

MALWRAYQRALAAHPWKVQVLTAGSLMGVGDMSIQQLVERRGLQQHQAGRTLTMVSLGCGFVGPVVGWY
 KVL DHLIPGTTKVHALKKMLLDQGGFAPCFLGCFPLVGLILNGMSAQDNWAKLKRDPALITNYLWPA
 VQLANFYLVPLHYRLAVVQCVAIVWNSYLSWKAHQF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

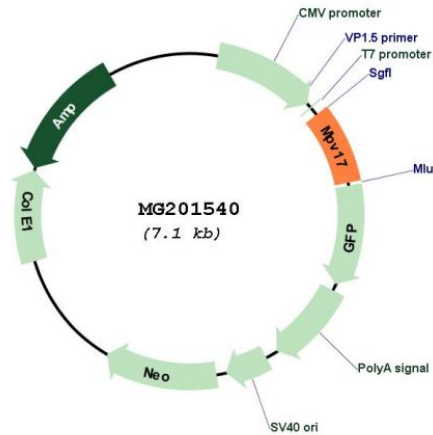


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Cloning Scheme:



Plasmid Map:



ACCN: NM_008622

ORF Size: 528 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.

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|-------------------------------|---|
| 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_008622.6</u> |
| RefSeq Size: | 1411 bp |
| RefSeq ORF: | 531 bp |
| Locus ID: | 17527 |
| UniProt ID: | <u>P19258</u> |
| Cytogenetics: | 5 B1 |
| Gene Summary: | Involved in mitochondria homeostasis. May be involved in the metabolism of reactive oxygen species and control of oxidative phosphorylation and mitochondrial DNA (mtDNA) maintenance (Probable).[UniProtKB/Swiss-Prot Function] |