

Product datasheet for **RG200452**

MPV17 (NM_002437) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MPV17 (NM_002437) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MPV17
Synonyms: CMT2EE; MTDPS6; SYM1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200452 representing NM_002437
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACTCTGGCGGGCATACCAGCGGGCCCTGGCCGCTCACCCGTGAAAGTACAGGTCCTGACAGCTG
 GGTCCCTGATGGGCTGGGTGACATTATCTCACAGCAGCTGGTGGAGAGGCGGGTCTGCAGGAACACCA
 GAGAGGCCGGACTCTGACCATGGTGTCCCTGGGCTGTGGCTTTGTGGCCCTGTGGTAGGAGGCTGGTAC
 AAGTTTTGGATCGTTTCCCTGGCACCACCAAAGTGGATGCACTGAAGAAGATGTTGTTGGATCAGG
 GGGGCTTTGCCCGTGTCTTAGGCTGCTTTCTCCCACTGGTAGGGCACTTAATGGACTGTCAGCCCA
 GGACAACCTGGGCCAACTACAGCGGGATTATCCTGATGCCCTTATCACCAACTACTATCTATGGCCTGCT
 GTGCAGTTAGCCAACTTCTACCTGGTCCCCCTTATTACAGGTTGGCCGTTGTCCAATGTTGCTGTTA
 TCTGGAACCTCTACCTGCTCCTGGAAGGCACATCGGCTC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200452 representing NM_002437
 Red=Cloning site Green=Tags(s)

MALWRAYQRALAAHPWKVQVLTAGSLMGLGDIIISQQLVERRGLQEHQQRGRTLTMVSLGCGFVGPVVGWY
 KVLDRFIPGTTKVDALKKMLLDQGGFAPCFLGCFPLVGLALNGLSAQDNWAKLQRDYPDALITNYLWPA
 VQLANFYLVPLHYRLAVVQCVAVIWNSYLSWKAHRL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_002437

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.

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_002437.5](#)

RefSeq Size: 1042 bp

RefSeq ORF: 531 bp

Locus ID: 4358

UniProt ID: [P39210](#)

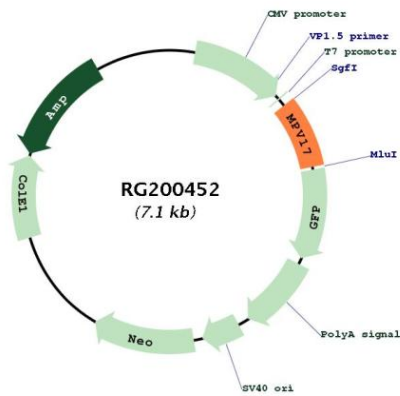
Cytogenetics: 2p23.3

Domains: Mpv17_PMP22

Protein Families: Transmembrane

Gene Summary: This gene encodes a mitochondrial inner membrane protein that is implicated in the metabolism of reactive oxygen species. Mutations in this gene have been associated with the hepatocerebral form of mitochondrial DNA depletion syndrome (MDDS). [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200452