

Product datasheet for **MR228241**

Mpv17 (NM_001294322) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mpv17 (NM_001294322) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mpv17
Synonyms: Tg.Mpv17
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228241 representing NM_001294322
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCACTCTGGCGAGCATACCAGAGAGCCCTGGCAGCACATCCGTGGAAAGTCCAGGTTCTGACAGCTG
GATCACTGATGGCGTAGGTGACATGATCTCACAGCAGCTGGTGGAGAGGCGGGTCTCCAGCAACACCA
GGCAGGCCGCACTCTGACCATGGTATCCCTGGGCTGTGGCTTTGTGGCCCTGTCGTCGGAGGCTGGTAC
AAAGTTTTAGACCACTTAATCCCGGGCACCACGAAGGTGCATGCACTGAAGAAGATGTTGTTAGATCAGG
GGGGCTTTGCCCATGTTTCTAGGCTGCTTTCTCCCACTGGTCGGGATACTCAATGGAATGTCAGCCCA
GGACAATTGGCCAAACTGAAGCGGCTCTGGCCTGCTGTGCAGTTAGCCAACCTTCTACCTGGTCCCCCTG
CATTACAGGTTGGCTGTTGTCCAGTGTGTTGCTATTGTCTGGAACCTCTACCTATCTGGAAGGCACATC
AGTTC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228241 representing NM_001294322
Red=Cloning site Green=Tags(s)

MALWRAYQRALAAHPWKVQVLTAGSLMGVGDMSIQQLVERRLQQHQAGRTLTMVSLGCGFVGPVVGWY
KVL DHLIPGTTKVHALKKMLLDQGGFAPCF LGCF LPLVGILNGMSAQDNWAKLKR LWPVQLANFYLVPL
HYRLAVVQCVAIVWNSYLSWKAHQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

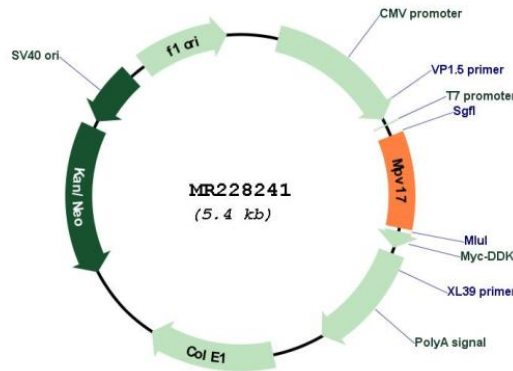


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001294322

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:	<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_001294322.1</u> , <u>NP_001281251.1</u>
RefSeq Size:	1682 bp
RefSeq ORF:	498 bp
Locus ID:	17527
Cytogenetics:	5 B1
MW:	18.8 kDa
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]