

Product datasheet for **MR209913**

Mtmr1 (NM_016985) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtmr1 (NM_016985) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtmr1
Synonyms:	AW049210
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR209913 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAGGCCAGTGGCGGGCGGCCGCCGATCTGCGGCGAGCTGCGAGGGCGCTGGGGGCCGGGGC
 CAGGGCCGGGCGCTAGCTGGAGACCCTCTCGGGTTGCGGGGGCGCCTCGGCCAGCTCCCGCACCCAG
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 GAGCTGCAGAAGCGTGTGGAGGACTTGCAGCGGGAGATGGCCACCCGGACCATCTCATCTTCTCTGAGA
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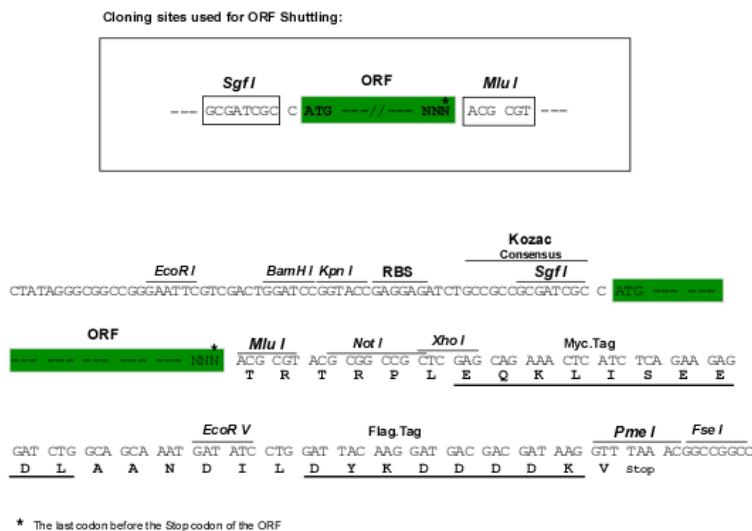
Protein Sequence: >MR209913 protein sequence
Red=Cloning site Green=Tags(s)

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KNVERDPHFVLDVPLGVI SRVEKIGAQSHGDNSCGIEIVCKDMRNLRLAYKQEEQRKLGIFENLNKHAFP
LSNGQVLF AFNYKEKFPVNGWKVYDPVSEYKRQGLPNESWKISKINSNYEFCDTYPAIIIVVPTS VKDDDL
SKVAAFRAKGRVPVLSWIHPESQATITRCSQPLVGPNDKRCKEDEKYLQTIMDANAQSHKLTFDARQNS
VADTNKAKGGYENESAYPNAELIFLEIHNHVMRESLRKLKEIVYPSIDESHWLSNVDGTHWLEYIRVL
LAGAVRIADKIESGKTSVVIHCSGDGWDRTSQLTSLAMLMLDSYIRTIKGFEALIEKEWISFGHRFALRVG
HGDDNHADADRSPIFLQFIDCVWQMRQFP S AFEFNEFLITILDHLYSCLFGTFLCNCEQQRKEDVYT
NTISLSWSYINSQLDEF SNPFVNYENHVLVPVASMHLWVNYVVRWNPMPQMPIHQNLKELLAIKA
ELQKRVEDLQREMATRTISSSSERGS SPTHSATPVHTSV
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016985

ORF Size: 2010 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_016985.2](#), [NP_058681.1](#)

RefSeq Size: 4652 bp

RefSeq ORF: 2010 bp

Locus ID: 53332

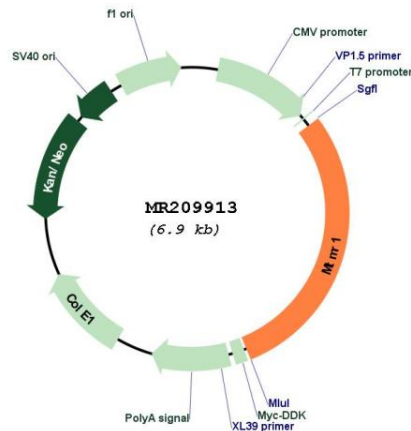
UniProt ID: [Q9Z2C4](#)

Cytogenetics: X A7.3

MW: 75.3 kDa

Gene Summary: Lipid phosphatase that has high specificity for phosphatidylinositol 3-phosphate and has no activity with phosphatidylinositol 4-phosphate, phosphatidylinositol (4,5)-bisphosphate and phosphatidylinositol (3,4,5)-trisphosphate (PubMed:12217958). Activity with phosphatidylinositol (3,5)-bisphosphate is controversial; it has been shown for the human ortholog (By similarity). In contrast, PubMed:12217958 find no activity with this substrate. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209913