

## Product datasheet for **MR208990**

### **Mtmr2 (BC063050) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mtmr2 (BC063050) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtmr2
Synonyms:	6030445P13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR208990 representing BC063050  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGT**GAGCGAGTTTCCGGTCCAGGCTCTCGGGTCCCCTGGCGCCTAGAGACGAGGCGCTGCGCGTGA**  
**ACGTGGGCGGAGTGCGGGGCTGCTGAGCGCGCGCCCTTGC**CGCTTCCCGGGCACGCGCCTGGGCCG  
 CCTACAGCGCGCGGCTCCGAGGAGCAGCGCGCGCCTGTGCGACGACTACGACGACGCGGCGCACGAG  
 TTCTACTTTGATCGGCATCCGGGCTTCTTCTCGGGCTCTACACTTCTACCGCACCGGGCACCTGCACG  
 TCCTAGACGAGCTGTGCGTCTTCGCTTTCGGCCAGGAGGCTGACTACTGGGGCTGGGCGAGAACGCGCT  
 GGCCACGTGTGCCGCGCGGTATCTGGAGCGCGGTGTGGCGCGGCTCGCGCTGGGACGAGGACAGC  
 GACGCGCCGAGCAGCGTGGACCCGTGTCCGACGAGATCTCGGACGTGCAGCGGAGCTGGCGCGTATG  
 GTGCGGCTCGCTGTGGCCGCTGCGCCGTCGTCTCTGGCTCACCATGGAGAATCCAGGCTACTCGTGCC  
 CAGCAAGCTCTCAGCTCGGTATCCATCGCGTGGTGTGCTCGCTCCATCGCTGCCATGTGCATCCACAGC  
 CTGCCGAGTACCAAGCTCGGGAGGCGGCGCGCGGTGGCTGCAGTGGCCGCGGGTGCAGCGCAGAGG  
 AGGTGCGCGACGACCCGGTGTGCGCGCCTGGAGTACTTCTGCATCGCTTGGTTCAGCTTCGAGGTGTC  
 GTCGCGCTGCTGCTGGCTCCCAGCACGCGCAACTTCTTCTGCCACCCGCTCAACCTCATTGACATCGTG  
 TCGGTGCTGCCCTTCTATCTCACACTGCTGGTGGCGCAGCGCTTGGTGACCAGCGCGGAGCCAGCGGGG  
 AGGAGCTCGGGGACCTGGGCAAGGTAGTGCAAGTGTCCGCTCATGCGCATCTTCCGCGTGTCAAGCT  
 GGCGGCCACTCCACGGGCTGCGTTGCTGGGCGCCACGCTCAAGCACAGCTACCGTGAAGTGGGCATC  
 TTA**CTGCTGTA**CTCTGGCGTGGGTGTGT**CAGTGT**CTCCGGCGTGGCCTACACAGCCGAAGAAGAAAACG  
 AGGGCTTTACACAATCCCTGCTGCTGGTGGTGGGCGACAGT**GAGCAT**GACCACAGTGGGCTATGGGGA  
 TGTGGTGCAGAGACTGTGGGTGGCAAGCTGGCGGCTCGGGCTGCATCCTCGGGGGCATCCTGGTGGT  
 GCCCTCCCATCACCATCATCTTCAACAAGTTTTCCCACTTCTACCGGCGCCAGAAGGCACTGGAGCGG  
 CCGTGGGAGCAGCGGT**CAGCGGAGTTT**GAGGACTTGTGAGT**AGCGTT**GACGGGGTATCGGATGTGTC  
 TCTGAAACATCCCGGACACTTCTCAGGAGGGACGCTCTACAGACCTGGAGACCAAGCTCCCGGGAG  
 CCTGCAAATCTCACAGTTAT

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208990 representing BC063050  
 Red=Cloning site Green=Tags(s)

MVSEFPGPSRVPWRPRDEALRVNVGGVRRLLSARALARFPGTRLGRLQAAASEEQARRLCDDYDAAAHE  
 FYFDRHPGFFLGLLHFYRTGHLHVLDEL CVFAFGQEADYWGLGENALATCCRARYLERRVARPRAWDEDS  
 DAPSSVDPCPDEISDVQRELARYGAARCGRLRRRLWLTMENPGYSLPSKLFSCVSIQVVLASIAAMCIHS  
 LPEYQAREAAAAVAAVAAGRSAEEVRDDPVLRRLEYFCIAWF SFEVSSRLLLAPSTRNFFCHPLNLIDIV  
 SVLPHYLTLLAGAALGDQRGASGEELGDLGKVQVFRMLRIFRVLKLARHSTGLRSLGATLKHSYREVGI  
 LLLYLAVGVSVFSGVAYTAEENEFGHTIPACWWWGTVSMTTVGYGDVVPETVGGKLAASGCILGGILVV  
 ALPITIIIFNKFSHFYRRQKALEAAVRSSGQREFEDLLSSVDGVSVDVSLRSDTSQEGRSTDLETQAPRE  
 PAKSHSY

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9016\\_e03.zip](https://cdn.origene.com/chromatograms/mm9016_e03.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** BC063050

**ORF Size:** 1491 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:** [BC063050](#), [AAH63050](#)

**RefSeq Size:** 3125 bp

**RefSeq ORF:** 1715 bp

**Locus ID:** 77116

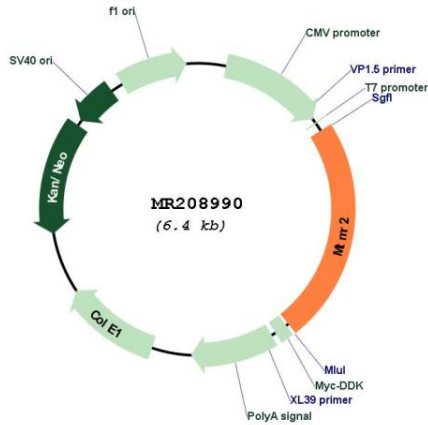
**Cytogenetics:** 9 A1

**MW:** 114.5 kDa

**Gene Summary:**

Phosphatase that acts on lipids with a phosphoinositol headgroup (PubMed:12045210, PubMed:16399794). Has phosphatase activity towards phosphatidylinositol 3-phosphate and phosphatidylinositol 3,5-bisphosphate (PubMed:12045210, PubMed:16399794). Binds phosphatidylinositol 4-phosphate, phosphatidylinositol 5-phosphate, phosphatidylinositol 3,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate (PubMed:12045210, PubMed:16399794). Stabilizes SBF2/MTMR13 at the membranes (PubMed:23297362). Specifically in peripheral nerves, stabilizes SBF2/MTMR13 protein (PubMed:23297362). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208990