

## Product datasheet for **MG208990**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mtmr2 (BC063050) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mtmr2
Synonyms:	6030445P13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG208990 representing BC063050  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAACCCAGCCCTGCTTCCAGGAGAGAACATTAAGATATGGCCAAAGATGTGACTTACATATGTC  
 CATTCACTGGTGTGTGCGAGGAACCGTACTGTGACAAGTTACAGGTTATATTTCAAGAGCATGGAGCG  
 GGACCCCCATTTGTTCTAGATGCTTCTTGGAGTGATAAGTAGAGTAGAAAAAATTGGTGGTGATCT  
 AGCCGAGGTGAAAACCTATGGCCTGGAACTGTGTGCAAGGATATCAGGAACTGCGATTTGCTCATA  
 AACCGGAGGGGCAACAAGAAGATCCATATTTGAGAATCTAATGAAATATGCATTTCTGTGTCTAATGG  
 CTTGCCTCTTTTGTCTTTGAGTATAAAGAAGTATCCCCGAAAATGGGTGGAACTGTATGACCCCTT  
 CTAGAGTACAGAAGGCAGGGAATCCAAATGAAAGCTGGAGAATAACAAAGATAAATGAACGCTATGAAC  
 TCTGTGACACATATCCTGCCCTTGGTGTGCCAGCAAACATTCCTGATGAGGAGCTAAAGAGAGTGGC  
 ATCCTTTAGGTACGGGGCCGGATCCCAGTTTTATCCTGGATTATCCTGAAAGTCAAGCCACAGTCACT  
 CGCTGCAGCCAGCCCATGGTTGGAGTGAGTGGGAAGCGCAGCAAAGAAGATGAGAAGTACCTTCAGGCCA  
 TCATGGACTCCAATGCCAGTCTCACAAAATATTTATCTTTGATGCTCGGCCAAGTGTCAATGCGGTTGC  
 CAATAAGGCAAAGGGGGGAGGTTATGAAAGTGAAGATGCCTATCAAAATGCAGAACTCGTTTTTCTGGAT  
 ATTCATAATATCCATGTTATGAGAGAATCATTACGGAAGCTTAAGGAGATTGTGTACCCACCATTGAAG  
 AAACACTGCTGGTGTCTAACTTAGAATCTACACACTGGCTGGAACACATTAAGCTCATTCTTGCAGGGGC  
 TCTTAGGATTGCTGACAAGGTCGAGTCTGGGAAGCGTCTGTGGTGGTACACTGCAGTGTGGATGGGAT  
 CGCACAGCTCAGTCACTTCCCTGGCCATGCTCATGTTGGATGGATACTACCGAACCATACGAGGATTTG  
 AAGTCTTGTGGAGAAAGAAATGGCTGAGCTTTGGACATAGATTCCAATAAGAGTTGGCCATGGAGATAA  
 GAACCATGCTGACGCAGACAGGTCACCTGTTTTCTTCAGTTTATTGACTGTGCTGGCAAATGACAAGA  
 CAGTTCCTACCCATTTGAATCAATGAGTATTTTCTCATTACCATCCTGGACCACTTGTACAGCTGTT  
 TATTTGGAACATTCCTTTGTAACAGCGAACAGCAGAGGGGGAAAGAGAATCTTCTAAGAAGACAGTGT  
 ACTGTGGTCTATATAAACAGCCAGCTGGAAGACTTTACTAATCCTCTTTATGGAAGCTACTCCAATCAT  
 GTCCTTTACCCAGTAGCCAGCATGCGCCACCTAGAGCTCTGGTGGGATATTATATAAGGTGGAACCCCC  
 GGATGAAACCTCAGGAACCTATCCACAGCAGATACAAAGAAGTCTTGGCCAAAAGAGCAGAGCTTCAAAG  
 AAAAGTAGAGAACTTACAGAGAGAAATTTCCAACCGCTCAACCTCCTCTCAGAGAGAGCCAGCTCTCT  
 GCACAGTGTGACTCCTGTCCAACTGTTGTA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208990 representing BC063050  
 Red=Cloning site Green=Tags(s)

MEEPALLPGENIKDMAKDVTYICPFTGAVRGLTVTSYRLYFKSMERDPPFVLDASLGVISRVEKIGGAS  
 SRGENSYGLETVCKDIRNLRFAHKPEGRRRSIFENLMKYAFPVSNGLPLFAFEYKEVFPENGWKLVDPL  
 LEYRRQGIPNESWRITKINERYELCDTYPALLVVPANIPDEELKRVASFRSRGRIPVLSWIHPESQATVT  
 RCSQPMVGVSGKRSKEDEKYLQAIMDSNAQSHKIFIFDARPSVNAVANKAKGGGYESEDAYQNAELVFLD  
 IHNIHVMRESLRKLKEIVYPTIEETHWLSNLESTHWLEHIKLILAGALRIADKVESGKTSVVVHCSGDW  
 RTAQLTSLAMLMLDGYRTIRGFEVLVEKEWLSFGHRFQLRVGHGDKNHADADRSPVFLQFIDCVWQMTR  
 QFPPTAFEFNEYFLITILDHLYSCLFGTFLCNSEQQRGKKNLPPKTVSLWSYINSQLEDFTNPLYGYSYNSH  
 VLYPVASMRHLELWVGYIRWNPRMKPQEPHRSRYKELLAKRAELQRKVEELQREISNRSTSSSERASSP  
 AQCVPVQTVV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

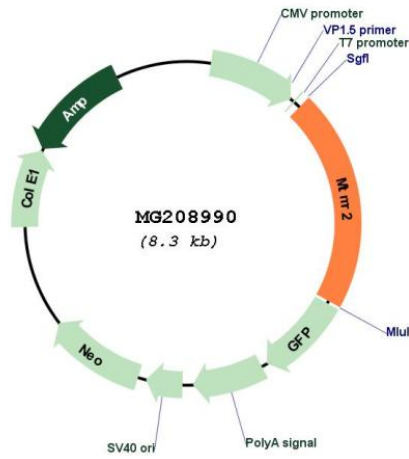
Sgfl-MluI

## Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: BC063050  
 ORF Size: 1715 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC063050</a> , <a href="#">AAH63050</a>
<b>RefSeq Size:</b>	3125 bp
<b>RefSeq ORF:</b>	1715 bp
<b>Locus ID:</b>	77116
<b>Cytogenetics:</b>	9 A1
<b>Gene Summary:</b>	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]