

## Product datasheet for **RC232981**

### **MTMR2 (NM\_001243571) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MTMR2 (NM_001243571) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MTMR2
Synonyms:	CMT4B; CMT4B1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC232981 representing NM\_001243571  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGAACCACCCCTTGCTTCCAGGAGAAAATATTAAGACATGGCCAAAGATGTAACCTTATATATGTC  
 CATTCACTGGCGCTGTACGAGGAACTCTGACTGTACGAATTATAGGTTATATTTCAAAGCATGGAACG  
 GGATCCCCCATTGTTTTAGATGCTTCCCTTGGTGTGATAAATAGAGTAGAAAAAATGGTGGTCTTCT  
 AGTCGAGGTGAAAATCTTATGGACTAGAACTGTGTGAAGGATATTAGGAATTTACGATTTGCTCATA  
 AACCTGAGGGGCGACAAGAAGATCCATATTTGAGAATCTAATGAAATATGCATTTCTGTCTCTAATAA  
 CCTGCCTCTTTTTGCTTTTGAATACAAAGAAGTATCCCTGAAAATGGGTGGAAGCTATATGACCCTCTT  
 TTAGAGTATAGAAGGCAGGGAATCCAAATGAAAGCTGGAGAATAACAAAGATAAATGAACGATATGAAC  
 TTTGTGATACATACCCTGCCCTCTGGTGTGCCAGCAAATTCCTGATGAAGAATTAAGAGAGTGGC  
 ATCCTTCAGATCAAGAGGCCGTATCCAGTTTTATCATGGATTATCCTGAAAGTCAAGCCACAATCACT  
 CGGTGTAGCCAGCCCATGGTTGGAGTGAGTGAAAGCGAAGCAAAGAAGTAAAAATACCTTCAAGCTA  
 TCATGGATTCCAATGCCAGTCTCACAAAATCTTTATATTTGATGCCCGCCAAGTGTTAATGCTGTTGC  
 CAACAAGGCAAAGGGTGGAGTTATGAAAGTGAAGATGCCTATCAAAATGCTGAACTAGTTTTCTGGAT  
 ATCCACAATATTCATGTTATGAGAGAATCATTACGAAACTTAAGGAGATTGTGTACCCCAACATTGAGG  
 AAACCCACTGGTGTCTAACTTGGAACTACTCATTGGCTAGAACATATTAAGCTTATTCTTGCAGGGGC  
 TCTTAGGATTGCTGACAAGGTAGAGTCAGGGAAGACGTCTGTGGTAGTGCATTGCAGTGATGGTTGGGAT  
 CGCACAGCTCAGTCACTTCCCTGGCATGCTCATGTTGGATGGATACTATCGAACCATCCGAGGATTTG  
 AAGTCTTGTGGAGAAAGAATGGCTAAGTTTTGGACATCGATTTCAACTAAGAGTTGGCCATGGACATAA  
 GAACCATGCAGATGCAGACAGATCGCCTGTTTTCTTCAATTTATTGACTGTGCTGGCAGATGACAAGA  
 CAGTTTTCTACCCATTTGAATCAATGAGTATTTTCTCATTACCATTTGGACCACCTATTACAGCTGCT  
 TATTCGGAACATTCTCTGTAATAGTGAACAACAGAGAGGAAAAGAGAATCTTCTAAAAGGACTGTGTC  
 ACTGTGGTCTTACATAAACAGCCAGCTGGAAGACTTCACTAATCCTCTCTATGGGAGCTATTCCAATCAT  
 GTCCTTTATCCAGTAGCCAGCATGCGCCACCTAGAGCTCTGGTGGGATATTACATAAGGTGGAATCCAC  
 GGATGAAACCACAGAACCTATTCACAACAGATACAAAGAAGTCTTGTAAACGAGCAGAGCTTCAGAA  
 AAAAGTAGAGGAACTACAGAGAGAGATTCTAACCGATCAACCTCATCCTCAGAGAGAGCCAGCTCTCT  
 GCACAGTGTGCTACTCTGTCCAACTGTTGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232981 representing NM\_001243571  
 Red=Cloning site Green=Tags(s)

MEEPPLLPGENIKDMAKDVTYICPFTGAVRGLT VVTNYRLYFKSMERDPPFVLDASLGVINRVEKIGGAS  
 SRGENSYGLETVCKDIRNLRFAHKPEGRTRRSIFENLMKYAFPVSNLPLFAFEYKEVFPENGWKLVDPL  
 LEYRRQGI PNESWRITKINERYELCDTYPALLVVPANIPDEELKRVASFRRGRIPVLSWIHPESQATIT  
 RCSQPMVGVSGKRSKEDEKYLQAIMDSNAQSHKIFIFDARPSVNAVANKAKGGGYESEDAYQNAELVFLD  
 IHNIHVMRESLRKLKEIVYPNIEETHWLSNLESTHWLEHIKLI LAGALRIADKVESGKTSVVVHCSGDWD  
 RTAQLTSLAMLMLDGYRTIRGFEVLVEKEWLSFGHRFQLRVGHGDKNHADADRPVFLQFIDCVQMTR  
 QFPTAFEFNEYFLITILDHLYSCLFGTFLCNSEQRGKENLPKRTVSLWSYINSQLEDFTNPLYGSYSNH  
 VLYPVASMRHLELVWGYIRWNPRMKPQEP IHNRYKELLAKRAELQKKVEELQREISNRSTSSSERASSP  
 AQCVPVQTVV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

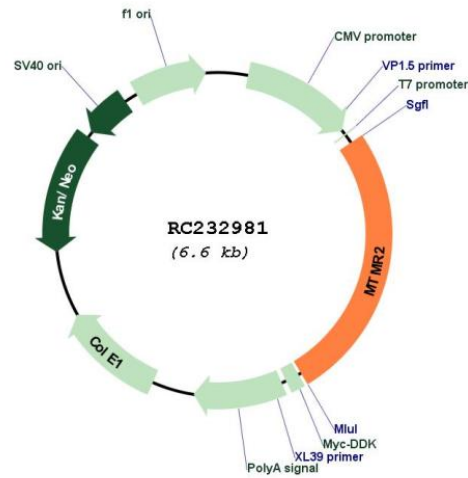
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001243571  
 ORF Size: 1713 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="#">NM_001243571.2</a>
<b>RefSeq Size:</b>	4870 bp
<b>RefSeq ORF:</b>	1716 bp
<b>Locus ID:</b>	8898
<b>UniProt ID:</b>	<a href="#">Q13614</a>
<b>Cytogenetics:</b>	11q21
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine metabolism
<b>MW:</b>	66.4 kDa
<b>Gene Summary:</b>	This gene is a member of the myotubularin family of phosphoinositide lipid phosphatases. The encoded protein possesses phosphatase activity towards phosphatidylinositol-3-phosphate and phosphatidylinositol-3,5-bisphosphate. Mutations in this gene are a cause of Charcot-Marie-Tooth disease type 4B, an autosomal recessive demyelinating neuropathy. Alternatively spliced transcript variants encoding multiple isoforms have been found for this gene. [provided by RefSeq, Aug 2011]