

## Product datasheet for **RG214811**

### MTMR2 (NM\_201281) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTMR2 (NM_201281) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTMR2
Synonyms:	CMT4B; CMT4B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214811 representing NM\_201281  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGAACCACCCCTTGCTTCCAGGAGAAAATATTAAGACATGGCCAAAGATGTAACCTTATATATGTC  
 CATTCACTGGCGCTGTACGAGGAACTCTGACTGTCACGAATTATAGTTATATTTCAAAGCATGGAACG  
 GGATCCCCCATTGTTTTAGATGCTTCCCTTGGTGTGATAAATAGAGTAGAAAAAATTGGTGGTCTTCT  
 AGTCGAGGTGAAAATTCTTATGGACTAGAACTGTGTGAAGGATATTAGGAATTTACGATTTGCTCATA  
 AACCTGAGGGGCGGACAAGAAGATCCATATTTGAGAATCTAATGAAATATGCATTTCTGTCTAATAA  
 CCTGCCTCTTTTTGCTTTTGAATACAAAGAAGTATCCCTGAAAATGGGTGGAAGCTATATGACCCTCTT  
 TTAGAGTATAGAAGGCAGGGAATCCAATGAAAGCTGGAGAATAACAAAGATAAATGAACGATATGAAC  
 TTTGTGATACATACCCTGCCCTCTGGTGTGCCAGCAAATTCCTGATGAAGAATTAAGAGAGTGGC  
 ATCCTTCAGATCAAGAGGCCGTATCCAGTTTTATCATGGATTATCCTGAAAGTCAAGCCACAATCACT  
 CGGTGTAGCCAGCCCATGGTTGGAGTGTGAAAGCGAAGCAAAGAAGTGAATAATACCTTCAAGCTA  
 TCATGGATTCCAATGCCAGTCTCACAAAATCTTTATATTTGATGCCCGCCAAGTGTAATGCTGTTGC  
 CAACAAGGCAAAGGGTGGAGTTATGAAAGTGAAGATGCCTATCAAAATGCTGAACTAGTTTTCTGGAT  
 ATCCACAATATTCATGTTATGAGAGAATCATTACGAAACTTAAGGAGATTGTGTACCCCAACATTGAGG  
 AAACCCACTGGTGTCTAACTTGGAACTACTCATTGGCTAGAACATATTAAGCTTATTCTTGCAGGGGC  
 TCTTAGGATTGCTGACAAGGTAGAGTCAGGGAAGACGTCTGTGGTAGTGCATTGCAGTGTGTTGGGAT  
 CGCACAGCTCAGTCACTTCCCTGGCATGCTCATGTTGGATGGATACTATCGAACCATCCGAGGATTTG  
 AAGTCTTGTGGAGAAAGAATGGCTAAGTTTTGGACATCGATTTCAACTAAGAGTTGGCCATGGACAATA  
 GAACCATGCAGATGCAGACAGATCGCCTGTTTTCTTCAATTTATTGACTGTGCTGGCAGATGACAAGA  
 CAGTTTCTACCCATTTGAATCAATGAGTATTTTCTCATTACCATTTGGACCACCTATTACAGCTGCT  
 TATTCGGAACATTCCTCTGTAATAGTGAACAACAGAGAGGAAAAGAGAATCTTCTAAAAGGACTGTGTC  
 ACTGTGGTCTTACATAAACAGCCAGCTGGAAGACTTCACTAATCCTCTCTATGGGAGCTATTCCAATCAT  
 GTCCTTTATCCAGTAGCCAGCATGCGCCACCTAGAGCTCTGGTGGGATATTACATAAGGTGGAATCCAC  
 GGATGAAACCACAGAACCTATTCACAACAGATACAAAGAAGTCTTGTAAACGAGCAGAGCTTCAGAA  
 AAAAGTAGAGGAACACAGAGAGAGATTCTAACCAGTCAACCTCATCTCAGAGAGAGCCAGCTCTCT  
 GCACAGTGTGCTACTCTGTCCAACTGTTGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG214811 representing NM\_201281  
 Red=Cloning site Green=Tags(s)

MEEPLLPGENIKDMAKDVTYICPFTGAVRGLTVTNYRLYFKSMERDPPFVLDASLGVINRVEKIGGAS  
 SRGENSYGLETVCKDIRNLRFAHKPEGRRRSIFENLMKYAFPVSNLPLFAFEYKEVFPENGWKLVDPL  
 LEYRRQGIPNESWRITKINERYELCDTYPALLVVPANIPDEELKRVASFRSRGRIPVLSWIHPESQATIT  
 RCSQPMVGVSGKRSKEDEKYLQAIMDSNAQSHKIFIFDARPSVNAVANKAKGGGYESEDAYQNAELVFLD  
 IHNIHVMRESLRKLKEIVYPNIEETHWLSNLESTHWLEHIKLILAGALRIADKVESGKTSVVVHCSGDW  
 RTAQLTSLAMLMLDGYRTIRGFEVLVEKEWLSFGHRFQLRVGHGDKNHADADRSVFLQFIDCVWQMTR  
 QFPTAFEFNEYFLITILDHLYSCLFGTFLCNSEQQRGKLNPKRTVSLWSYINSQLEDFTNPLYGYSYNSH  
 VLYPVASMRHLELWVGYYIRWNPRMKPQEPHNRKYKELLAKRAELQKQVEELQREISNRSTSSSERASSP  
 AQCVPVQTVV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_201281

**ORF Size:** 1713 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\\_201281.3](#)

**RefSeq Size:** 4565 bp

**RefSeq ORF:** 1716 bp

**Locus ID:** 8898

**UniProt ID:** [Q13614](#)

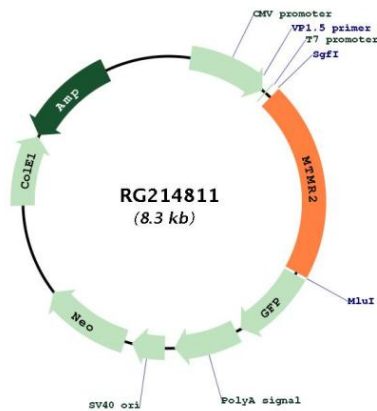
**Cytogenetics:** 11q21

**Protein Families:** Druggable Genome, Phosphatase

**Protein Pathways:** Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine metabolism

**Gene Summary:** 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]

**Product images:**



Circular map for RG214811