

## Product datasheet for **SC111724**

### MTMR2 (NM\_201281) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTMR2 (NM_201281) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTMR2
Synonyms:	CMT4B; CMT4B1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC111724 sequence for NM\_201281 edited (data generated by NextGen Sequencing)

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ATGGAAGAACCACCCCTTGCTTCCAGGAGAAAATATTAAGACATGGCCAAAGATGTAAC
TATATATGTCCATTCACCTGGCGCTGTACGAGGAACCTGACTGTCACGAATTATAGGTTA
TATTTCAAAGCATGGAACGGGATCCCCATTTGTTTTAGATGCTTCCCTGGTGTGATA
AATAGAGTAGAAAAAATTGGTGGTCTTCTAGTCGAGGTGAAAAATCTTATGGACTAGAA
ACTGTGTGAAGGATATTAGGAATTTACGATTTGCTCATAAACCTGAGGGGCGGACAAGA
AGATCCATATTTGAGAATCTAATGAAATATGCATTTCTGTCTAATAACCTGCCTCTT
TTTGCTTTTGAATACAAAGAAAGTATTCCCTGAAAATGGGTGGAAGCTATATGACCCTCT
TTAGAGTATAGAAGGCAGGGAATCCAAATGAAAGCTGGAGAATAACAAAGATAAATGAA
CGATATGAACTTTGTGATACATACCCTGCCCTCCTGGTTGTGCCAGAAAATTCCTGAT
GAAGAATTAAGAGAGTGGCATCCTTCAGATCAAGAGGCCGTATCCAGTTTTATCATGG
ATTCATCTGAAAGTCAAGCCACAATCACTCGGTGTAGCCAGCCCATGGTTGGAGTGAGT
GGAAAGCGAAGCAAAGAAGATGAAAAATACCTTCAAGCTATCATGGATTCCAATGCCAG
TCTCACAAAATCTTTATATTTGATGCCCGCCAAGTGTTAATGCTGTTGCCAACAAGGCA
AAGGGTGGAGGTTATGAAAGTGAAGATGCCTATCAAAATGCTGAACTAGTTTTCTGGAT
ATCCACAATATTCATGTTATGAGAGAATCATTACGAAAACCTAAGGAGATTGTGTACCC
AACATTGAGGAAACYCACTGGTTGTCTAACTTGGAACTACTCATTGGCTAGAACATATT
AAGCTTATTTCTGCAGGGGCTCTTAGGATTGCTGACAAGGTAGAGTCAGGGAAGACGCT
GTGGTAGTGCATTGCAGTGATGGTTGGGATCGCACAGCTCAGCTCACTTCCCTTGCCATG
CTCATGTTGGATGGATACTATCGAACCATCCGAGGATTTGAAGTCCTTGTGGAGAAAGAA
TGGCTAAGTTTTGGACATCGATTTCAACTAAGAGTTGGCCATGGAGATAAGAACCATGCA
GATGCAGACAGATCGCCTGTTTTCTTCAATTTATTGACTGTGTCTGCCAGATGACAAGA
CAGTTTTCTACCGCATTTGAATTCATGAGTATTTTCTCATTACCATTTTGGACCACCTA
TACAGCTGCTTATTCGGAACATTCTCTGTAATAGTGAACAACAGAGAGGAAAAGAGAAT
CTTCTAAAAGGACTGTGTCACTGTGGTCTTACATAAACAGCCAGCTGGAAGACTTCACT
AATCCTCTCTATGGGAGCTATTCCAATCATGTCCTTTATCCAGTAGCCAGCATGCGCCAC
CTAGAGCTCTGGTGGGATATTACATAAGGTGGAATCCACGGATGAAACCCAGGAACTT
ATTCAACAGATACAAAGAACTTCTTGCTAAACGAGCAGAGCTTCAAGAAAAAGTAGAG
GAACTACAGAGAGAGATTTCTAACCGATCAACCTCATCCTCAGAGAGAGCCAGCTCTCT
GCACAGTGTGCTACTCTGTCCAACTGTTGTATAA

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Clone variation with respect to NM\_201281.2  
915 c=>y

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_201281

**Insert Size:** 3370 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<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>	<u><a href="#">NM_201281.1</a></u> , <u><a href="#">NP_958438.1</a></u>
<b>RefSeq Size:</b>	4565 bp
<b>RefSeq ORF:</b>	1716 bp
<b>Locus ID:</b>	8898
<b>UniProt ID:</b>	<u><a href="#">Q13614</a></u>
<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>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) includes an additional internal exon in its 5' UTR and initiates translation at a downstream start codon, compared to variant 1, resulting in an isoform (2) that is shorter at the N-terminus, compared to isoform 1. Variants 2, 3 and 4 encode the same isoform.</p>