

## Product datasheet for **SC309966**

### MTMR3 (NM\_153051) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTMR3 (NM_153051) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTMR3
Synonyms:	FYVE-DSP1; ZFYVE10
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153051, the custom clone sequence may differ by one or more nucleotides

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ATGGATGAAGAGACTCGGCACAGCCTTGAGTGCATCCAGGCCAATCAGATCTTTCCCAGG
AAGCAGCTGATCCGGGAGGATGAGAATCTTCAGGTTCTTTCTTGAACCTCATGGAGAG
AGCACAGAGTTTGTGGGCCGTGCCGAGGATGCCATCATTGCCCTTTCCAATTACAGACTT
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CCCCAGATTGTGGCATTGGCTAAGCTCTTGTGACCCTTATTACCGAACCATAGAGGGT
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CGGGCAGGCAACAAGGCTTTCAAAAACCTACTGTATTCTCTCAGTCAGAAGCCGTGCTG
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TCCCCAACCCCTGTGGACGACAGCTGTGCACCATACCCAGCCCCAGGCACCAGCCCT
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TCAGTGTACACAGACAGATCCAACAGCGCCTGCGTCAGATTGAGTCAGGCCACCAGCAG
GAAGTAGAAACTTTGAAGAAACAAGTCCAGGAGCTGAAGAGTCGCCTGGAGAGCCAGTAC
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CTACATCCCAAGCTCCAGCATTGACCTTGAAGTGGATAAGCCATTGCTGCCACTTCC
AACTGA
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- Restriction Sites:** Please inquire
- ACCN:** NM\_153051
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_153051.1](#), [NP\\_694691.1](#)

**RefSeq Size:** 5852 bp

**RefSeq ORF:** 3486 bp

**Locus ID:** 8897

**UniProt ID:** [Q13615](#)

**Cytogenetics:** 22q12.2

**Domains:** FYVE, PTPc\_motif

**Protein Families:** Druggable Genome, Phosphatase

**Gene Summary:** This gene encodes a member of the myotubularin dual specificity protein phosphatase gene family. The encoded protein is structurally similar to myotubularin but in addition contains a FYVE domain and an N-terminal PH-GRAM domain. The protein can self-associate and also form heteromers with another myotubularin related protein. The protein binds to phosphoinositide lipids through the PH-GRAM domain, and can hydrolyze phosphatidylinositol(3)-phosphate and phosphatidylinositol(3,5)-biphosphate in vitro. The encoded protein has been observed to have a perinuclear, possibly membrane-bound, distribution in cells, but it has also been found free in the cytoplasm. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 3, resulting in a protein (isoform b) that is shorter than isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.