

## Product datasheet for **SC117198**

### MTMR4 (NM\_004687) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTMR4 (NM_004687) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTMR4
Synonyms:	FYVE-DSP2; ZFYVE11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004687, the custom clone sequence may differ by one or more nucleotides

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ATGGGTGAGGAGGGGCCCCAGCCTGGAGTACATCCAAGCCAAGGATCTGTTCCCCCAAGGAAGTAG
TGAAGGAGGAAGAGAATCTTCAGGTCCCCTTCACAGTGCAGGGTGGAGGAGTAGAGTTCCTGGGCCG
GGCAGCCGATGCCCTCATTGCCATCTCTAACTACCGGTGCATATCAAATTCAGGACTCTGTCAACAAC
GTCCCCCTCCGGATGATTGACAGTGTGGAGAGCCGTGATATGTTCCAGTGCACATTTCTGCAAGGACT
CCAAAGTGGTGGTGGTCCACTTCTCCACTTTAAGCAGTGCCAAGAGTGGCTCTCACGGCTAAGCCGAGC
CACAGCAAGACCTGCCAAGCCTGAAGACCTCTTGCCTTTCCTACCATGCCTGGTGCCTGGGGCTGACC
GAGGAGGACCAGCACACTCACCTATGTCAGCCAGGTGAGCACATACGTTGTGCACAGGAGGCGGAGCTTG
CAAGGATGGGCTTTGACCTGCAGAACGTCTGGAGAGTCTCACACATCAACAGCAACTACAAATTGTGCC
CAGTTACCCCCAGAAGCTGCTGGTTCCTGTGTGGATCACTGACAAAGAGCTGGAGAACGTGGCTTCTTTC
CGCTCCTGGAAGCGGATTCCCCTGGTGTGTATAGACACTTGCAGCAATGGGGCTGCCATCGCCCGTGC
GCCAGCCAGAGATCAGCTGGTGGGGCTGGCGCAATGCTGATGATGAGTACCTGGTCCAGTCCATTGCTAA
AGCCTGTGCCCTGGACCCGGGGACAAGGGCCACTGGGGCTCCCTCAGCACCGGGAATAATGATACCAGC
GAGGCGTGTGATGCTGACTTTGATTCTTCTGACTGCGTGTCTGGAGTGGAGAGCACAGCAGCTCCTC
AAAAGCTGCTGATCCTGGATGCGCGATCCTACACGGCAGCAGTGGCCAACCGGGCAAGGGTGGAGGCTG
TGAATGTGAAGAGTACTATCCCAACTGTGAGTCTGTTTCATGGGAATGGCCAACATCCATGCCATCCGG
AACAGCTTTCAGTACCTCCGGGCTGTGTGTAGCCAGATGCCGATCCTAGCAACTGGTGTGCGCACTGG
AGAGTACCAAATGGCTGCAGCACTTGTCCGTGATGCTAAAAGCAGCTGTGCTGGTGGCTAATACAGTAGA
CCGGGAAGGCCGGCTGTGCTGTTACACTGCTCAGATGGCTGGGACCGCACACCGCAGATCGTAGCCCTG
GCCAAAATATTACTGGACCCATATTACAGGACGTTGGAGGGCTTCCAAGTGTAGTGGAGTCTGACTGGC
TGGATTTGGGCACAAGTTTGGAGATCGCTGTGGCCACCAAGAGAATGTGGAGGACCAAAACGAACAATG
CCCTGTGTTCTCCAGTGGCTTGATTCTGTTTCATCAGTTGCTTAAAGCAGTTCCCCTGCCTGTTTGAATTT
AATGAAGCATTCTGGTAAAAGTGGTGAACACACATACTCCTGCCTCTACGGCACCTTCTGGCCAACA
ACCCCTGTGAGCGAGAGAAGCGCAACATCTACAAGCGGACCTGCTCTGTGTGGGCGCTCCTTCGAGCTGG
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CAATAAAAACCTTTCATAACTTCCTCTACACACCCAGCTCAGACATGGTCCTGCATCCTGTTTGCATGTC
CGGGCCCTGCACCTCTGGACAGCTGTTTATCTGCCAGCATCATCTCCATGCACACTTGGGGAAGAAAACA
TGGATCTTTACCTTTCCCAAGTGGCCAGAGCCAGGAGTTCTCTGGCCGCTCTCTGGACAGATTACCTAA
AACCAGATCCATGGATGATCTTCTTTCTGCCTGTGACACAAGCAGCCCCCTGACTCGTACATCCAGTGAC
CCTAACCTGAATAACCACTGTGAGGAGTCAAGGTAGGCTGGAGCCCTGGCACAGCAATCCTGAGGGAT
CAGAGACAAGCTTTGTGGACTCTGGGGTAGGAGGGCTCAGCAAACGTAGGAGAAGTGGGTCTTCTCTCC
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AGGTGTGAAGTCACTGTCTGTTCTAGTCAATCCAATGGACATTTACTGGCCAGGAGGAAAGAACCAG
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TGCTCCTCTGTATTTGGATGATGATGGACTCCCTTTCCACGGATGTGATCCAGCATAGGTTACGGCA
AATCGAAGCAGGGTACAAACAAGAGGTGGAGCAGTACGTCGACAGGTGCGTGAGCTTCAGATGAGGCTG
GACATCCGTCACTGCTGTGCCCTCCAGCAGAGCCCCCATGGACTATGAGGATGATTTTACATGTTTGA
AGGAGTCAGATGGCAGTGATACTGAGGATTTTGGCTCTGATCACAGTGAAGACTGCCTTTCAGAAGCAAG
CTGGGAACCTGTTGATAAGAAAGAGACTGAGGTGACTCGTGGGTTCCAGACCATATGGCATCACTGCTC
TATAACTGTGACTGTGAATCTGGTTGGCCAAACGAAGACACCATTGCAGAAATTGTGGGAATGATTTT
GTGCTGGATGCTGCCACCTGAAGCTGCCATTCTGATCAGCAACTCTATGACCCAGTTCTCGTCTGTAA
CTCATGTTACGAACACATTCAAGTCTCTCGTGCCAGGGAACCTCATGAGCCAACAGCTGAAGAAACCCATT
GCTACAGCTTCCAGTTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004687 unedited

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TACGACTTATATAGGGCGGCCGGAATTCGCACGAGGGTGGGGTGGGACTGCGCGGCCT
CAGCAGCTGCGGGAGACGGAAGTGGCAAGAGCGCGGCCTCAGAGGGTGGGGCGGACGCCG
CCTGGTGAGAAGCAGGCAGCCAGTACCCTTGCCACGGTAGAATGGGTGAGGAGGGGCCCC
CCAGCCTGGAGTACATCCAAGCCAAGGATCTGTTCCCCCAAGGAACTAGTGAAGGAGG
AAGAGAATCTTCAGTCCCTTTCACAGTGTGCAGGGTGGGGAGTAGAGTTCTGGGCC
GGGCAGCCGATGCCCTCATTGCCATCTCTAACTACCGGCTGCATATCAAATTCAGGACT
CTGTCATCAACGTCCCCCTCCGGATGATTGACAGTGTGGAGAGCCGTGATATGTTCCAGT
TGACATTTTCTGCAAGGACTCCAAAGTGGTGAGGTGCCACTTCTCCACTTTTAAGCAGT
GCCAAGAGTGGCTCTCACGGCTAAGCCGAGCCACAGCAAGACCTGCCAAGCCTGAAGACC
TCTTTGCCTTTGCCTACCATGCCTGGTGCCTGGGGCTGACCGAGGAGGACCAGCACACTC
ACCTATGTCAGCCAGGTGAGCACATACGTTGTGACAGGAGGCGGAGCTTGAAGGATGG
GCTTTGACGTGCAGAACGTCTGGAGAGTCTCACACATCAACAGCAACTACAAATTTGTGCC
CCAGTTACCCCCAGAAGCTGCTGGTTCTGTGTGGATCACTGACAAAGAGCTGGAGAACC
TGGCTTTCTTCCGCTCCTGGAAGCGATTCCCGTGTGTGTATAGACACTTGCGCCATGGG
GCTGGCATCGCCCGCTGCAGCCAGCCAAAGATCAACTGGTTGGGGCTGGCCCAATGCTGA
TGATGAGTACTTGGTCACGTCCATGTTAAGACTG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004687 unedited TTAGCTTGNACCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTACTAATA TAGAGATTTTATTTAAACTGTATTGAATTTTACAGCACATTGCATGTTTGTACACAACGC AACTGCACAGTTTGGATTTTGGCCACATCATGCACTTACACCCACAACAGCTCTGAAA GGAGTATTTGATGAACACATCTGAGCCAAGAGCCAGAGTCTCTCCAAGGCCATGCAG TTTGTTCAGTATGGGACAGTCCCTCAAACAGCCACGCTAAGTAGACAGATACAGTCTC CCCAAATGTTACCAATCTTACTCCCTTGAAAACAGGCAGAGTGAAGTGAATGAAAGAC AAGTTAATTAATAAGCCACTCACAACTGGCAGTAAATTTAATGATTGATAAATGCTTA AAATAATTTTATGTATCAGAAACAAGGAACAGCTTGTACTTTTTCAATGATCTCAGGAA TTTTGCAGACACAAAATCTCATTATTCAGCTCCATTTAAATGAAAAAAAAAGTCCGCT AGGCTGACCTAAATATGCCAAAACCTTTTAGGTTACATCTATGGCAAGTACAAAAGAACC ACAGATGCGTCTGTAGGACTGAAAAGGTCAGGACAAAATAATGATTCTTGTCTAAATG CAGATCCTAGTTATTTTGAATGAAATGCTGTTTTCTAGAAAGCCACATGAAAGTAGCA GTAAGAAAGATGACTACCATCATTTCAAACAGAATAAGCCTAAATATAATTTACCATTT ATATGTCAACAAATTAAGGAAAACCTGTATAAAGTCTAGTGGGTTTATTATAGGCCAAGG AGACTGTATCTGTCCAACCCAAGTACATGGCTTATCACTGTATCTTTGGTTAAGTGCCCT GGTCTTTTAGGATGAAAAACCNACCCAACCCAAACACCATTAATTTTTTAAACAC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004687
<b>Insert Size:</b>	5410 bp
<b>OTI Disclaimer:</b>	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).
<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_004687.3</a> , <a href="#">NP_004678.2</a>
<b>RefSeq Size:</b>	5840 bp
<b>RefSeq ORF:</b>	3588 bp
<b>Locus ID:</b>	9110
<b>UniProt ID:</b>	<a href="#">Q9NVA4</a>
<b>Cytogenetics:</b>	17q22
<b>Domains:</b>	FYVE
<b>Protein Families:</b>	Druggable Genome, Phosphatase

**Gene Summary:**

Dephosphorylates proteins phosphorylated on Ser, Thr, and Tyr residues and low molecular weight phosphatase substrate para-nitrophenylphosphate. Phosphorylates phosphatidylinositol 3,4,5-trisphosphate (PIP3).[UniProtKB/Swiss-Prot Function]