

## Product datasheet for **SC108745**

### **MTP18 (MTFP1) (NM\_016498) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTP18 (MTFP1) (NM_016498) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTP18
Synonyms:	HSPC242; MTP18
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108745 sequence for NM_016498 edited (data generated by NextGen Sequencing)

```
ATGTCAGAGCCGCGAGCCGCGGGGCGCAGAGCGCGATCTCTACCGGACACGTGGGTGCGA
TACCTGGGCTATGCCAATGAGGTGGGCGAGGCTTTCCGCTCTCTTGTGCCAGCGCGGTG
GTGTGGCTGAGCTATGGCGTGGCCAGCTCCTACGTGCTGGCGGATGCCATTGACAAAGGC
AAGAAGGCTGGAGAGGTGCCAGCCCTGAAGCAGGCCGCGAGCCAGGTTGACCGTGGCT
GTGGTGGACACCTTTGTATGGCAGGCTCTAGCCTCTGTGGCCATTCCGGGCTTCACCATC
AACCGCGTGTGTGCTGCCTCTCTATGTCCTGGGCACTGCCACCCGCTGGCCCCCTGGCT
GTCCGCAAGTGGACCACCACCGCTTGGGCTGTTGACCATCCCCATCATTATCCACCCC
ATTGACAGGTCGGTGGATTTCTCCTGGACTCCAGCCTGCGCAAGCTCTACCCAACAGTG
GGGAAGCCAGCTCCTCCTGA
```

Clone variation with respect to NM\_016498.4  
234 t=>c



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_016498 unedited</p> <pre> ATTTTGTATACGACTCACTATAGCGCGCCGCAATTCGGCACGAGGGCCGGGCAGACCCA AGTGCCGGCGCGGAGACTGCAGTGGAGCCAGTACCGGCTGTAGTGGCCGGGGCCGTGGC GGGAGAGTCATGTGAGAGCCGACGCCGGGGCGCAGAGCGCATCTCTACCGGGACACG TGGGTGCGATACCTGGGCTATGCCAATGAGGTGGGCGAGGCTTCCGCTCTTTGTGCCA GCGGCGGTGGTGTGGCTGAGCTATGGCGTGGCCAGCTCCTACGTGCTGGCGGATGCCATT GACAAAGGCAAGAAGGCTGGAGAGGTGCCAGCCCTGAAGCAGGCCGACGCCAGGGTG ACCGTGGCTGTGGTGGACACCTTTGTATGGCAGGCTCTAGCCTCTGTGGCCATTCCGGGC TTCACCATCAACCGCGTGTGTGCTGCTCTCTCTATGTCCTGGGCACTGCCACCCGCTGG CCCCTGGCTGTCCGAAGTGGACCACCACCGGCTTGGGCTGTTGACCATCCCCATCATT ATCCACCCATTGACAGGTGCGTGGATTTCCTCCTGGACTCCAGCCTGCGCAAGCTCTAC CCAACAGTGGGAAGCCAGCTCCTCCTGATCATACTCTGGTACCTGGCCTGTGCATCGG CCTCCTGCTTCATGTCAACCTCTACTCCTGGCCAGGAATGTGGACACCTGGCTCCCTGG TGTCCAAAGACCCTGGCACCTGGGGGGGTTTGTAGCTGGACAGAGCTTANAGACAAGGCT TCAAGAGCAGTGGCTGCAGGGAGTCAAGAGGGCCAGCACCTGACGCTGTCTGCTTCCTT GGATCCCAGAGCTGAGTGAATTGACCCTGGGTGGGCCCGGCCTTGCCTTTT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_016498 unedited</p> <pre> GCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACCTCTTCAGAATTTATTGG GTCAGGGAAGGGCTGGCCAGAGAACTGCCTGAGGTGTCCTGGTACTGCACTCCTGAG TTTCTCCCTGAGTTGTCTGCCGCTCCTTGTTTCAGCCATACCACCATGGGGTACTCTGTC AAGCACCTGGGGTCTGGGTGCCAGCTTGCCAAGTATCTTGGGCTATTCTTGCCC TCCCTGAGCCTCAGTCTCTCATCTCCATGGGAGGATGAATTTTCTGAAAAAGACAGG GCCGGGCCACCCAGGGTCCACTTCCACTCAGCATCTTGATTCCAGGGAAGCAGACAGC GTTCAGGTCTGCCCTTCTGTGACTCCCTGCAGCCACTGTTCTTGAAGCCTTTGTCTCT AAGCTTCTGTCCAGTCAAACCCACCCAGGTGCCAGGGTCTTTGGACACCAGGGAGCCAG GTGTCCACATTCCTGGCAGGAGTAGGAGGTTGACATGAAGCAGGAGGCCGATGCCCAGG CCAGGTACCANAGTATGATCAGGAGGAGCTGGGCTTCCCCTGTTGGGTAAAGCTTGCG CAGGCTGGAGTCCAGAGAACTCACCGACCCTGCCATTGGGGTGGATAATGACGGGGAT GGCCAACCAGCCAGGCGCCGGGTGGGTCAATTTGCGGACAGCCAGGGCCAGCGGGCGGC AGCGCCAGTACTAAAGAGAGGCTCCCACCCCTGTTGACGGTGAACCCGCCATCGCCC CAAAGCTTAAACCCGCCATAACAAGGGTGCCCCACAAACCCGGGACACCTGTGCTCCGGG CTTGTTATAAGGTTTGGCACCTCTCCACTCTGTTGCCCTTAGATGTGGCTCCCCCCGAG CGATATTGCACACTATCTCCCTTCGCCTTGTCCCGGCACCACAACCAG </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016498
<b>Insert Size:</b>	1170 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).

**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\\_016498.3](#), [NP\\_057582.2](#)

**RefSeq Size:** 1193 bp

**RefSeq ORF:** 501 bp

**Locus ID:** 51537

**UniProt ID:** [Q9UDX5](#)

**Cytogenetics:** 22q12.2

**Gene Summary:** MTP18 is a mitochondrial protein and downstream target of the phosphatidylinositol 3-kinase (see PIK3CA, MIM 171834) signaling pathway that plays a role in cell viability and mitochondrial dynamics (Tondera et al., 2004 [PubMed 15155745]).[supplied by OMIM, Mar 2008]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).