

## Product datasheet for SC115803

### MTERF (MTERF1) (NM\_006980) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTERF (MTERF1) (NM_006980) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTERF
Synonyms:	MTERF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115803 sequence for NM_006980 edited (data generated by NextGen Sequencing)

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ATGCAGACCTTTCCCTTAGGACAACAAGCATTTCAAAAGGTTTGAACCTAACCATT
ATGGCACCAGGAAACCTCTGGCATATGAGAAATACTTTCTTTGGTTCAAGATGTTGG
ATGACTCGATTTTCAGCAGAAAACATCTTCAAATCAGTTTCATTTAGGCTTTTTGGTGTG
AAGTGTCAATAACAGACAGTGAGCCTTTGAAAAATGAGGACCTACTGAAAACTTACTT
ACTATGGGAGTAGATATTGACATGGCAAGGAAACGACAGCCTGGAGTTTTTCATAGGATG
ATTACCAATGAGCAGGACCTGAAGATGTTCTTTTCCAAAGGAGCTAGCAAAGAAGTG
ATCGCTAGCATCATATCAAGATATCCACGAGCAATAACACGTAATCCCGAGAATCTTTCA
AAACGGTGGGATCTGTGGAGAAAGATTGTGACATCAGACCTTGAATTTGAAATATTTTG
GAACGTTCTCCTGAATCCTTTTTTCGGTCCAATAACAACCTAACTTAGAGAATAATATA
AAGTTCTCTACTCAGTTGGATTGACCCGTAATGCCTTTGTCGATTGTTGACCAATGCC
CCTCGTACCTTCTCCAATAGTCTTGATCTGAATAAACAGATGGTTGAATTTTTGCAGGCA
GCCGGTTTGTGATTGGGTCAAAATGATCCCGCAGATTTTGTGAGAAAGATAATTTTTAA
AACCTTTTATCTTAATTCAGAGCACCAGCGGGTAAAAGCTAACATTGAATTTCTACGG
TCAACTTTCAATTTGAACAGTGAGGAAGTCTGGTTCTGATATGTGGTCCAGGAGCTGAA
ATCCTAGACCTTTCCAATGACTATGCCAGAGAAGCTACGCAACATCAAAGAGAAGCTG
ATCTTTTGGCAGAGAAAAAGTTAATGATAAAATAGACTGCCTCATGGAAGAAAAACATT
AGCATTTACAAAATAATCGAAAATCCTCGGGTTCTGGATTCAAGCATAAGTACTTTAAAA
AGTCGAATCAAAGAATTGGTAAATGCTGGCTGTAACCTTGAGTACTTTAAACATCACTCTT
CTATCTTGGAGTAAAAAAGATATGAAGCTAAATTGAAAAAGTTAAGCAGATTTGCCTAA

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Clone variation with respect to NM\_006980.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006980 unedited</p> <pre> ACTATAGGGCGGCGCGATTCCGGCACGAGGGTTCAGGGTGAGATTGGGAAGGTGGTGAGG CTGTGCTTTCTTTCTTTTTGTTAAGAAGTGGGTGTGGGTGACTGCTGTACAGTGCAGCC CTTTGCAGATTTGTCTTTGGAGGAGGAAGAGGGATGAAAGAGCCTTCGGTGTGGAATTA CCTTGGTTTTGAGTTAAGAAAGACCCACCTGGGTTCGAACCCTAATGCTTCAGCTAGCGA AGGCAGGCTAGTATGGGAGCTCGGCGCTGTTTCAGATTTTGAATTTAAGGCTTATGCC TACCTTTTAAATTGTTGTGGGGAGTAAAGCGAGACAATATATGAAGCACTTAGCTTTG GTACAAAACGTATTCGTGATTCCGCTACCTTTTCCCATCATATGTAGGCATGTACTTGCC GTTTTCTTTCTGTATGTCTGAGAAATGTTGTTTGCAGAGGTAATGCATCTCACGAGAA CATAATGCAACGAGAACGTTAGCTGGGATCGATCTCTTATTTTGTATTAGGAAGGCCTGA AATATTTTGCCTTTTTTTGTGTGTGTGTGTCATTTCCAGAGATAGCTGTTCTCCAGCCT TTCTGGAGGGATGCAGAGCCTTTCCTTAGGACAAAACAAGCATTTCAAAAGGTTTGAAC CCTAACCATATGGCACCAGGAAACCTCTGGCATATGAGAAATAACTNTCTTTGGTTC AAGATGTTGGATGACTCGATTTTCAGCAGAAAACATCTTCAAATCAGTTTCATTTAGGCT TTTTGGGTGTGAAGTGCATTATACAGACAGTGAGCCTTTGAAAATGAGGNACTACTGA AAAACCTACCTACTATGGGAGTAGATATTGACATGGCAAGGACCGACGC </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006980 unedited</p> <pre> TTTCTATGGACCGGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAGGCAA ACATATTCCTTTATTTAGATTTTATATTCACATTTAGTTTTTTATGCACACATTTAAGAC TTTATAAACACTAACATTAGCAATTCAGAAGGGTAGGTAGATTTTTTAAATATAATTAC TCTTATAAAAGGAAGAAATAGAGACTTTACTAAAGGACTGTATTTTTGACTTCACCTATA ATGCAACTAATCATCTACTTAGTTGCTATGTTAATCTATTTGCTTCTTCAGCAAATTATC ACTGACTCAGTGGTTTAAACAACACAAATTTACCATCTTATGGTTCTGTGGGTGAGAAG TTTGACATTGATCTCACTGGGCTAAAAAGGTGCCAGCAAGGCTGCATTCTTTCTGGGGA CTCTAATGGAGAATCTGTTTCCTTGCCTTTTCAATCTTTTTTTACAGGCCCTTCATTC CTTGGCTCAAGGTGTCTTCTCCTTCAAAGCCACCTTTTAACTTCCTTCAAAGTAGTTG TCTTTCTTATACAGGATCACTCTGACCTCCTCTTTTGCCTCCCTCTTCAACTTTTAAAGA TCCCTACAATTATATTAGGGCCCTCAAAGTAATTCAGGATAATCTCCCCATCTCAAGGC CCTTAATAACATNTAAATTAATCACTTCTGCAAAATCTTTTGAATGTGGCATAACAT ATTCACAGTTCCTGAGAATTA AAAACATTGGCATCCTTAGGCAAATCTGCTTAACTTTTT CAATTTAGCTTTCATATCTTTNTTTACTCCAAGATAGAAGAGTGATGTTTAAAGTACTCAA GTTACAGCCAGCATTTACCAATTCCTTGATTGACTTTTTAAGTACTTATGCTTGAATCC AGACCCCGAGGATTCGATAATTGGGAATGCTATGGTTTCCTTCATGAGCAG </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006980
<b>Insert Size:</b>	2540 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_006980.3</a> , <a href="#">NP_008911.1</a>
<b>RefSeq Size:</b>	2163 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	7978
<b>UniProt ID:</b>	<a href="#">Q99551</a>
<b>Cytogenetics:</b>	7q21.2
<b>Domains:</b>	Mterf
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	<p>This gene encodes a mitochondrial transcription termination factor. This protein participates in attenuating transcription from the mitochondrial genome; this attenuation allows higher levels of expression of 16S ribosomal RNA relative to the tRNA gene downstream. The product of this gene has three leucine zipper motifs bracketed by two basic domains that are all required for DNA binding. There is evidence that, for this protein, the zippers participate in intramolecular interactions that establish the three-dimensional structure required for DNA binding. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>