

## Product datasheet for RC237853

### MTERF (MTERF1) (NM\_001301135) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTERF (MTERF1) (NM_001301135) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MTERF1
Synonyms:	MTERF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237853 representing NM_001301135 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCACCAGGAAACCTCTGGCATATGAGAAATAACTTTCTCTTTGGTTCAAGATGTTGGATGACTCGAT  
TTTCAGCAGAAAAATCTTCAAATCAGTTTCATTTAGGCTTTTGGTGTGAAGTGCATAATACAGACAG  
TGAGCCTTTGAAAAATGAGGACCTACTGAAAACTTACTACTATGGGAGTAGATATTGACATGGCAAGG  
AAACGACAGCCTGGAGTTTTTCATAGGATGATTACCAATGAGCAGGACCTGAAGATGTTCCCTTTTCCA  
AAGGAGCTAGCAAAGAAGTGATCGCTAGCATCATCAAGATATCCACGAGCAATAACACGTACTCCCGA  
GAATCTTTCAAAACGGTGGGATCTGTGGAGAAAGATTGTGACATCAGACCTTGAAATTGTAATATTTTG  
GAACGTTCTCCTGAATCCTTTTTTCGGTCCAATAACAACCTAACTTAGAGAATAATATAAAGTTCTCT  
ACTCAGTTGGATTGACCCGTAATGCCTTTGTGCGATTGTTGACCAATGCCCTCGTACCTTCTCCAATAG  
TCTTGATCTGAATAAACAGATGGTTGAATTTTGCAGGCAGCCGGTTTGTATTGGGTCACAATGATCCC  
GCAGATTTTGTGAGAAAGATAATTTTTAAAAACCCTTTTATCTTAATTCAGAGCACAAGCGGGTAAAG  
CTAACATTGAATTTACGGTCACTTTCAATTTGAACAGTGAGGAACTGCTGGTTCTGATATGTGGTCC  
AGGAGCTGAAATCCTAGACCTTTCCAATGACTATGCCAGAAGAAGCTACGCAACATCAAAGAGAAGCTG  
TTTTCTCTGGATGTAAGGAAAGAGGTACAGAAGTTTGTCTTAAGCTATCCAGATGTGATCTTCTTGG  
CAGAGAAAAAGTTAATGATAAAATAGACTGCCTCATGGAAGAAAAATTAGCATTTACAAAATAATCGA  
AAATCCTCGGTTCTGGATTCAAGCATAAGTACTTTAAAAAGTCAATCAAAGAATTGGTAAATGCTGGC  
TGTAACCTGAGTACTTTAAACATCACTCTTCTATCTTGGAGTAAAAAAGATATGAAGCTAAATTGAAA  
AGTTAAGCAGATTTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237853 representing NM\_001301135  
Red=Cloning site Green=Tags(s)

MAPGNLWHRNNFLFGSRCWMTRFSAENIFKSVSFRLFGVKCHNTDSEPLKNEDLLKNLLTMGVDDIMAR  
 KRQPGVFHRMITNEQDLKMFLLSKGASKEVIASIIISRYPRAITRTPENLSKRWDLWRKIVTSDLEIVNIL  
 ERSPEFFRSNNLNLLENNIKFLYSVGLTRKCLCRLLTNAPRTFNSLDLNKQMVFLQAAGLSLGHNDP  
 ADFVRKIIIFKNPFIILIQSTKRVKANIEFLRSTFNLNSEELLVLICGPGAELDLSDNYARRSYANIKEKL  
 FSLGCTEEEVQKFLVLSYPDVIFLAEKKFNKIDCLMEENISISQIIENPRVLDSSISTLKSRIKELVNAG  
 CNLSTLNIITLLSWSKKRYEAKLKLRSFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

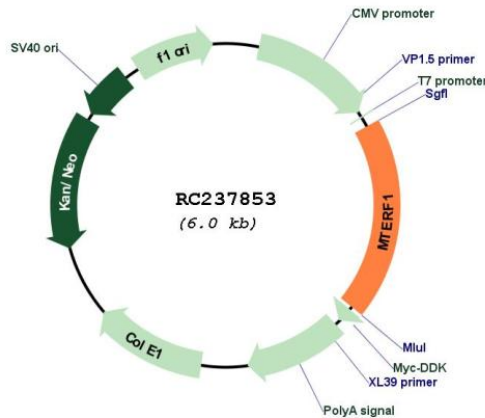
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001301135

<b>ORF Size:</b>	1137 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001301135.2</a>
<b>RefSeq Size:</b>	2128 bp
<b>RefSeq ORF:</b>	1140 bp
<b>Locus ID:</b>	7978
<b>UniProt ID:</b>	<a href="#">Q99551</a>
<b>Cytogenetics:</b>	7q21.2
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	44.1 kDa
<b>Gene Summary:</b>	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]