

Product datasheet for **RC237852**

MTERF (MTERF1) (NM_001301134) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTERF (MTERF1) (NM_001301134) 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:	>RC237852 representing NM_001301134 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCACCAGGAAACCTCTGGCATATGAGAAATAACTTTCTCTTTGGTTCAAGATGTTGGATGACTCGAT
TTTCAGCAGAAAAATCTTCAAATCAGTTTCATTTAGGCTTTTTGGTGTGAAGTGCATAATACAGACAG
TGAGCCTTTGAAAAATGAGGACCTACTGAAAACTTACTTACTATGGGAGTAGATATTGACATGGCAAGG
AAACGACAGCCTGGAGTTTTTCATAGGATGATTACCAATGAGCAGGACCTGAAGATGTTCCCTTTTCCA
AAGGAGCTAGCAAAGAAGTGATCGCTAGCATCATCAAGATATCCACGAGCAATAACACGTACTCCCGA
GAATCTTTCAAACGGTGGGATCTGTGGAGAAAGATTGTGACATCAGACCTTGAAATTGTAATATTTTTG
GAACGTTCTCCTGAATCCTTTTTTCGGTCCAATAACAACCTAACTTAGAGAATAATATAAAGTTCTCT
ACTCAGTTGGATTGACCCGTAATGCCTTTGTGCGATTGTTGACCAATGCCCTCGTACCTTCTCCAATAG
TCTTGATCTGAATAAACAGATGGTTGAATTTTGCAGGCAGCCGGTTTGTATTGGGTCACAATGATCCC
GCAGATTTTGTGAGAAAGATAATTTTTAAAAACCCTTTTATCTTAATTCAGAGCACCAAGCGGGTAAAAG
CTAACATTGAATTTACGGTCACTTTCAATTTGAACAGTGAGGAACTGCTGGTTCTGATATGTGGTCC
AGGAGCTGAAATCCTAGACCTTTCCAATGACTATGCCAGAAGAAGCTACGCAAACATCAAAGAGAAGCTG
TTTTCTTTGGATGTACTGAAGAAGAGGTACAGAAGTTTGTCTTAAGCTATCCAGATGTGATCTTCTTGG
CAGAGAAAAAGTTAATGATAAAATAGACTGCCTCATGGAAGAAAAACATTAGCATTTACAAAATAATCGA
AAATCCTCGGTTCTGGATTCAAGCATAAGTACTTTAAAAAGTCAATCAAAGAATTGGTAAATGCTGGC
TGTAACCTGAGTACTTTAAACATCACTCTTCTATCTTGGAGTAAAAAAGATATGAAGCTAAATTGAAAA
AGTTAAGCAGATTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237852 representing NM_001301134
Red=Cloning site Green=Tags(s)

MAPGNLWHRNNFLFGSRCWMTRFSAENIFKSVSFRLFGVKCHNTDSEPLKNEDLLKNLLTMGVDIDMAR
 KRQPGVFHRMITNEQDLKMFLLSKGASKEVIASIIISRYPRAITRTPENLSKRWDLWRKIVTSDLEIVNIL
 ERSPEFFRSNNLNLLENNIKFLYSVGLTRKCLCRLLTNAPRTFNSLDLNKQMVFLQAAGLSLGHNDP
 ADFVRKIIIFKNPFIILIQSTKRVKANIEFLRSTFNLNSEELLVLICGPGAELDLSDNYARRSYANIKEKL
 FSLGCTEEEVQKFWLSYPDVIFLAEKKFNKIDCLMEENISISQIIENPRVLDSSISTLKSRIKELVNAG
 CNLSTLNIITLLSWSKKRYEAKLKLRSFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

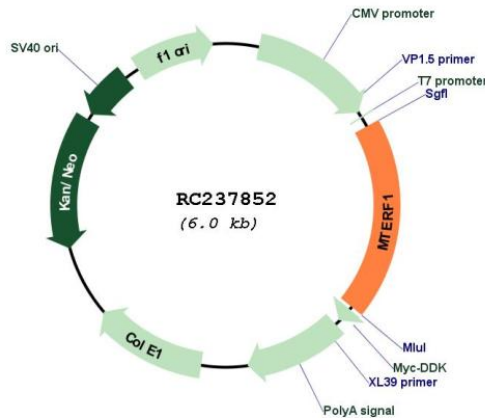
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301134

ORF Size:	1137 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_001301134.2
RefSeq Size:	1968 bp
RefSeq ORF:	1140 bp
Locus ID:	7978
UniProt ID:	Q99551
Cytogenetics:	7q21.2
Protein Families:	Transcription Factors
MW:	44.1 kDa
Gene Summary:	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]