

Product datasheet for **SC323861**

MTERFD2 (MTERF4) (NM_182501) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTERFD2 (MTERF4) (NM_182501) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTERFD2
Synonyms:	MTERFD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_182501.2
 CTTCTCCGCGCTATGGCTGCGTTTCGGCCGTCAGGTCCTTGATTGGCACC GCCTGATCCCC
 CTCACCTGGGCGCTGTATGGCTAGGCAGACTCCTCATCTTGGAGAACAGAGAAGGACGACA
 GCTTCTTTGTTGCGCAAAGTACTGACTACAGCCTCCAATGGAGGGGTCATTGAGGAGTTATCT
 TGTGTTAGATCCAATAACTATGTGCAGGAACCAGAGTGCAGGAGGAATCTTGTTCAAGTGC
 CTCCTTGAGAAGCAGGGGACTCCTGTGGTACAAGGGTCCCTGGAGCTAGAGAGGGTCATG
 AGTTCCCTCCTGGACATGGGTTTCAGCAATGCCCATATTAATGAATTGCTCAGTGTACGG
 CGAGGTGCCAGTCTTCAACAGTTGCTGGACATCATTTTCAGAATTTATTCTTGGGTCTG
 AATCCAGAGCCTGTGTGTGGTCTTGAAGAAAAGTCCCCAGTTATTGAAACTGCCTATT
 ATGCAAAATGAGGAAGCGCTCCAGTTACCTGCAAAAAGCTTGGGCTTGGAGAAGGGAATTA
 AAGAGGGTGCTTTACTGTTGCCCTGAAATTTTACCATGCGCCAGCAGGACATTAACGAC
 ACTGTCAGGCTTCTCAAGGAGAAGTGCCTTTTACGGTACAGCAAGTACCAAGATTTTG
 CACAGTTGCCCTCTGTTCTTCGAGAGGACCTGGGTCACTGGAATACAAGTTTTCAGTAT
 GCATACTCAGGATGGGAATTAAGCATCCAGACATTGAAAGAGTGAGTACTTGCAGTAT
 TCACTAACCAAGATTAAGCAGAGACACATTTACCTGGAGCGCCTGGGACGGTACCAAACC
 CCTGATAAGAAGGGGACAGACAGATCCCTAACCCATTGCTCAAGGACATTCTCAGAGTT
 TCAGAAGCTGAGTTTTTGGCCAGGACAGCCGTA CTCTGTTGAGGAGTTTCAAGTTTTT
 AAGAAGCTCCTGGCTCGGGAGGAGGAGGAGTCTGAGAGCAGCACATCTGATGACAAAAGG
 GCAAGTCTGGATGAGGATGAGGATGACGATGATGAGGAGGACAATGATGAGGATGACAA
 TATGAGGATGACGATGATGAGGACGACGACGAGGCGGAGGACAATGATGAGGATGAGGAC
 GACGACGAGGAGGAATAGCTGTGACGGAAGGACTAGAGCGAAAGGGCCAGAGATATCAA
 GGAAGCTTTTTCATTCTCTTAAAGCTTTTGGGTCCTTTACTTGAATCTTCTCAAGTTATTT
 TTTATTTCTAAAAGTCTCTTGTGATGAAAAAATTATAAGTACCTGAGAGGCAGACAGA
 TCAAACCAACAGGAAACAGGAAATGCATGTTTGTCTGTTGTCACGTGTCTGTGGGGAG
 GGCCCTGTCCATCCTGAATAAGATACTTATGTTGAGCTATTCAAATCAAGGGGACTCAA
 TATATCAACAATTGGTTTTATTTTTTCTCTTTTGAATATGTTGGTGATAATTCCGTGAC
 AGTTGGAAGATGGGGTTCATTCTCCGGTTCAGGAATCACTATGTATTTCTTCTTGTGA
 TAAAAATAAAATTACGAGAAGGCCAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_182501

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

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_182501.2](#), [NP_872307.2](#)

RefSeq Size: 4545 bp

RefSeq ORF: 1146 bp

Locus ID: 130916

UniProt ID: [Q7Z6M4](#)

Cytogenetics: 2q37.3

Gene Summary: Regulator of mitochondrial ribosome biogenesis and translation. Binds to mitochondrial ribosomal RNAs 16S, 12S and 7S and targets NSUN4 RNA methyltransferase to the mitochondrial large ribosomal subunit (39S).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longest isoform (1).