

Product datasheet for **SC328558**

TSFM (NM_001172696) Human Untagged Clone

Product data:

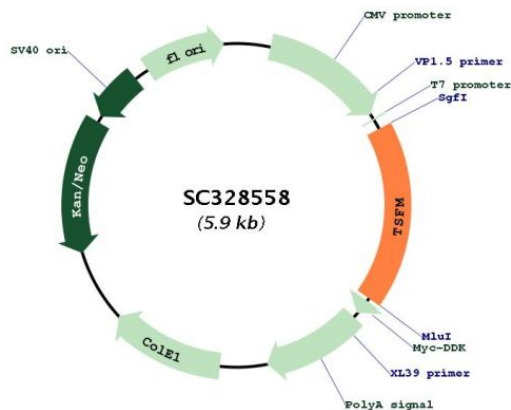
Product Type:	Expression Plasmids
Product Name:	TSFM (NM_001172696) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSFM
Synonyms:	EFTS; EFTSMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328558 representing NM_001172696. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGCGTGTGCGGTCGCTGCGCGTGTCTGGTCGCGCGGACCGGGAGCTACCGGCTGGGTCTCTT
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ACTTGTGGCGGGACCTCAAACAGGCAGAGATCTGGCTCCACAAGGAGGCCAGAAGGAGGGCTGGAGC
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ACTGTATTAGTAGAGTAACTGTGAGACAGATTTTGTCTAGAAATTTAAAATTTCAACTGTTGGTC
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TTGAATTCCTCTGAGCTTTCTGGACTTCCAGCTGGGCCTGACAGAGAAGGCTCACTCAAGGATCAGTTG
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AAGTATGGGGCCCTGGTCATCTGTGAGACGTCTGAACAGAAAACAACCTGAAGACGTTGGCCCGCCG
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GCAGAGACTAAGATGCTGTCCCAGCCGATTTGCTGGATCCCTCCATTACCTTGGGCAGTATGTGCAG
CCTCAGGGGTGTGCGTAGTACTTTGTGCGGTTTGAATGTGGAGAAGGTGAAGAGGCAGCAGAAACT
GAATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001172696

Insert Size: 1041 bp

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_001172696.1](#)

RefSeq Size: 2102 bp

RefSeq ORF: 1041 bp

Locus ID: 10102

UniProt ID: [P43897](#)

Cytogenetics: 12q14.1

Protein Families: Transcription Factors

MW: 37.7 kDa

Gene Summary: This gene encodes a mitochondrial translation elongation factor. The encoded protein is an enzyme that catalyzes the exchange of guanine nucleotides on the translation elongation factor Tu during the elongation step of mitochondrial protein translation. Mutations in this gene are associated with combined oxidative phosphorylation deficiency-3 syndrome. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Mar 2010]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).