

## Product datasheet for **SC328261**

### TSFM (NM\_001172695) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TSFM (NM_001172695) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSFM
Synonyms:	EFTS; EFTSMT
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001172695, the custom clone sequence may differ by one or more nucleotides ATGTCGCTGCTGCGGTCGCTGCGCGTGTCTTCTGGTCGCGCGGACCGGGAGCTACCCGGCT GGGTCTCTTCTGCGTCAGTCGCCCCAGCCAAGGCACACATTTTATGCTGGGCCCGTCTG TCTGCCTCGGCCCTCCAGCAAGGAGCTCCTCATGAAGCTGCGGCGGAAAACAGGCTACTCC TTTGTAATTGCAAGAAAGCTCTGGAGACTTGTGGCGGGACCTCAAACAGGCAGAGATC TGGCTCCACAAGGAGGCCAGAAGGAGGCTGGAGCAAAGCTGCCAAGCTCCAAGGGAGG AAGACCAAAGAAGGCCTGATTGGGCTGTTGCAGGAAGGAAACACAAGTATTAGTAGAG GTAAGTGTGAGACAGATTTTGTCTAGAAATTTAAATTTCAACTGTTGGTCCAGCAA GTAGCCCTTGAACCATGATGCATTGTGACACCCTAAAGGATCAACCCTCTGCATACAGT AAAGAAAAGTGGGAGAAAACATGA
Restriction Sites:	Please inquire
ACCN:	NM_001172695
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).



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**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\\_001172695.1](#), [NP\\_001166166.1](#)

**RefSeq Size:** 1951 bp

**RefSeq ORF:** 504 bp

**Locus ID:** 10102

**UniProt ID:** [P43897](#)

**Cytogenetics:** 12q14.1

**Protein Families:** Transcription Factors

**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 (3) lacks two exons in the coding region, which results in a frameshift and an early stop codon, compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1.