

## Product datasheet for **SC106436**

### TSFM (AF110399) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TSFM (AF110399) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSFM
Synonyms:	EFTS; EFTSMT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC106436 sequence for AF110399 edited (data generated by NextGen Sequencing)

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ATGTCGCTGCTGCGGTGCTGCGCGTGTTCCTGGTCGCGCGGACCGGGAGCTACCCGGCT
GGGTCTCTTCTGCGTCAGTCGCCCCAGCCAAGGCACACATTTTATGCTGGGCCCGTCTG
TCTGCCTCGGCCCTCCAGCAAGGAGCTCCTCATGAAGCTGCGGCGGAAAACAGGCTACTCC
TTTGTAATTGCAAGAAAGCTCTGGAGACTTGTGGCGGGACCTCAAACAGGCAGAGATC
TGGCTCCACAAGGAGGCCAGAAGGAGGCTGGAGCAAAGCTGCCAAGCTCCAAGGGAGG
AAGACCAAGAAGGCCTGATTGGGCTGTTGCAGGAAGGAAACACAAGTATTAGTAGAG
GTAAACTGTGAGACAGATTTTGTCTAGAAATTTAAATTTCAACTGTTGGTCCAGCAA
GTAGCCCTTGAACCATGATGCATTGTCAGACCCTAAAGGATCAACCCTCTGCATACAGT
AAAGGTTTCTTGAATTCCTCTGAGCTTTCTGGACTTCCAGCTGGGCCTGACAGAGAAGGC
TCACTCAAGGATCAGTTGGCTTTAGCAATTGAAAAGTGGGAGAAAACATGATTCTTAAA
CGAGCTGCATGGGTGAAGTGCCATCTGGGTTCTACGTTGGCTCTTATGTCCACGGAGCA
ATGCAGAGTCCCTCACTTCAAGCTGGTGTGGGGAAGTATGGGGCCCTGGTCACTCTGT
GAGACGCTGAACAGAAAAACAACTTGAAGACGTTGGCCGCCGCTTGGGCAGCATGTG
GTGGGCATGGCCCCCTCTCTGTTGGCTCCCTGGACGATGAGCCTGGGGGAGAGGCAGAG
ACTAAGATGCTGTCCAGCCGATTTTGTGGATCCCTCCATTACCTTGGGCAGTATGTG
CAGCCTCAGGGGTGTCGGTAGTAGACTTTGTGCGGTTTGAATGTGGAGAAGGTGAAGAG
GCAGCAGAACTGAATAG

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Clone variation with respect to AF110399.1  
30 t=>c



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AF110399 unedited</p> <pre> NNTTGTCAAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACCAGGCCCGCC GGNAGGTGTTTATCGCGGCTAGAGAGATGTCGCTGCTGCGGTGCGCGTGTCTCTGG TCGCGCGGACCGGGAGCTACCCGGCTGGGTCTTCTGCGTCAGTCGCCCCAGCCAAGGC ACACATTTTATGCTGGGCCCCGTCTGTCTGCCTCGGCCTCCAGCAAGGAGCTCCTCATGA AGCTGCGGCGGAAAACAGGCTACTCCTTTGTAATTGCAAGAAAGCTCTGGAGACTTGTG GCGGGGACCTCAACAGGCAGAGATCTGGCTCCACAAGGAGGCCAGAAGGAGGGCTGGA GCAAAGCTGCCAAGCTCCAAGGGAGGAAGACCAAGAAGGCCTGATTGGGCTGTTGCAGG AAGGAAACACAACGTATTAGTAGAGGTAACCTGTGAGACAGATTTTGTCTAGAAATT TAAATTTCAACTGTTGGTCCAGCAAGTAGCCCTTGAACCATGATGCATTGTCAGACCC TAAAGGATCAACCCTCTGCATACAGTAAAGGTTTCTTGAATTCCTCTGAGCTTTCTGGAC TTCCAGCTGGGCCTGACAGAGAAGGCTCACTCAAGGATCAGTTGGCTTTAGCAATTGGAA AACTGGGAGAAAACATGATTCTTAAACGAGCTGCATGGGTGAAGGTGCCATCTGGTTCT ACGTTGGCTCTTATGTCCACGGAGCAATGCAGAGTCCCTCACTTACAAGCTGGTGTGG GGAAGTATGGGGCCCTGGTCATCTGTGAGACGTCTGAACAGAANACAACCTTGAAGACGT GGCCGCCGCCCTTGGCAGCATGTGTGGGCATGGCCCTCTCTGTGGCTCCTGACAAGAGC CCTGGGGGAGAGCANAACACTANNAGCTGTCCAGCCTAT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for AF110399 unedited</p> <pre> AGGTCCACTATGNACCGCGCCGAATCTATGATCGTTTTTTTTTTTTTTTTTTTACGCAA ACAAGGAAAAAATTTTTATTATACAACATTTAATAATTTTACCCATGCATTCTCGGT CTGAAGAGGTTTGGGAAATTCCTTTTTGTAATGATGTCCAGAGCTAAAAGTAAATATT CCTCCTGGGCCAAAAGTCTCTGGAACCTATTCAGTTTCTGCTGCCTCTTACCTTCTCCA CATTCAAACCGCACAAAGTCTACTACCGACACCCCTGAGGCTGCACATACTGCCCAAG GTAATGGAGGGATCCAGCAAATACGGCTGGGACAGCATCTTAGTCTCTGCCTCTCCCCCA GGCTCATCGTCCAGGGAGCCAACAGAGAGGGGGCCATGCCACCACATGCTGCCAAGG CGGCGGCCAACGTCTTCAAAGTTTGTCTTGTTCAGACGTCTCACAGATGACCAGGGCC CCATACTCCCCAGCACCAGCTTGTGAAGTGAGGGACTCTGCATTGCTCCGTGGACATAA GAGCCAACGTAGAACCCAGATGGCACCTTACCCATGCAGCTCGTTAAGAATCATGTTT TCTCCCAGTTTTCCATTGTCTAAAGCCAACCTGATCCTTGAGTGAGCCTTCTCTGTGAGGC CCAGCTGGGAGTCCAGAAAAGCTCACAAGAATTTAGGAACTTTACTGTATGCAGAGGGG TGATCCCTTAGGGTCTGACAATGCATCATGGGTCCAAGGCCTACTTGCTGGACCCAACA ATTGAAAATTTAAATTTNCAAGAAACAAAATCTGGCCTACAGTTTACCCTTCTCTAACCA TTGGGGTTTCTTCTGGAACAACCCCAAAAGGCCT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AF110399
<b>Insert Size:</b>	1250 bp
<b>OTI Disclaimer:</b>	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).
<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="#">AF110399.1</a> , <a href="#">AAD20224.1</a>
<b>RefSeq Size:</b>	982 bp
<b>RefSeq ORF:</b>	978 bp
<b>Locus ID:</b>	10102
<b>Cytogenetics:</b>	12q14.1
<b>Domains:</b>	UBA, EF_TS
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	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]