

## Product datasheet for **RG229623**

### **TSFM (NM\_001172695) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TSFM (NM\_001172695) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TSFM  
**Synonyms:** EFTS; EFTSMT  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229623 representing NM\_001172695  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGCTGCTGCGGTGCTGCGGTGTTTCTGGTCGCGCGGACCGGGAGCTACCGGCTGGGTCTCTTC  
TGCGTCAGTCGCCCCAGCCAAGGCACACATTTTATGCTGGGCCCGTCTGTCTGCCTCGGCTCCAGCAA  
GGAGCTCCTCATGAAGCTGCGGCGAAAACAGGCTACTCCTTTGTAATGCAAGAAAGCTGGAGACT  
TGTGGCGGGACCTCAAACAGGCAGAGATCTGGCTCCACAAGGAGGCCAGAAAGGAGGGCTGGAGCAAAG  
CTGCCAAGCTCCAAGGGAGGAAGACCAAAGAAGCCTGATTGGGCTGTTGCAGGAAGGAAACACAAGTGT  
ATTAGTAGAGGTAAGTGTGAGACAGATTTTGTTCAGAAATTTAAATTTCAACTGTTGGTCCAGCAA  
GTAGCCCTTGGAACCATGATGCATTGTGACACCCTAAAGGATCAACCCTCTGCATACAGTAAAGAAAAC  
GGGAGAAAACA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG229623 representing NM\_001172695  
**Red=Cloning site Green=Tags(s)**

MSLLRSLRVFLVARTGSYPAGSLLRQSPQPRHTFYAGPRLSASASSKELLMKLRRTGYSFVNCKKALET  
CGGDLKQAEIWLHKEAQKEGWSKAAKLQGRKTK EGLIGLLQE GNTTVLVEVNCETDFVSRNLKFQLLVQQ  
VALGTMHCQTLKDQPSAYSKENWEKT

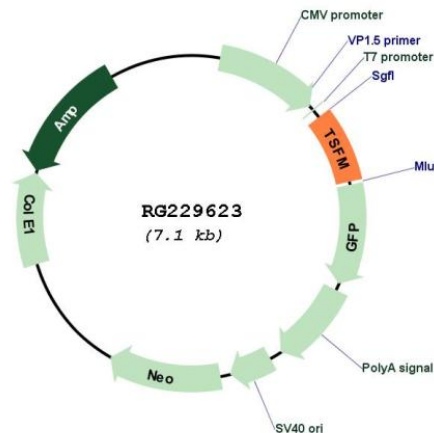
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001172695

**ORF Size:** 501 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.

<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>	<u><a href="#">NM_001172695.2</a></u>
<b>RefSeq Size:</b>	1951 bp
<b>RefSeq ORF:</b>	504 bp
<b>Locus ID:</b>	10102
<b>UniProt ID:</b>	<u><a href="#">P43897</a></u>
<b>Cytogenetics:</b>	12q14.1
<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]