

## Product datasheet for **RG229920**

### **TSFM (NM\_001172696) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TSFM (NM\_001172696) 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:** >RG229920 representing NM\_001172696  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGCTGCTGCGGTGCTGCGGTGTTTCTGGTCGCGCGGACCGGGAGCTACCGGCTGGGTCTCTTC  
TGCGTCAGTCGCCCCAGCCAAGGCACACATTTTATGCTGGGCCCGTCTGTCTGCCTCGGCCTCCAGCAA  
GGAGCTCCTCATGAAGCTGCGGCGGAAAACAGGCTACTCCTTTGTAATGCAAGAAAGCTGGAGACT  
TGTGGCGGGACCTCAAACAGGCAGAGATCTGGCTCCACAAGGAGGCCAGAAGGAGGGCTGGAGCAAAG  
CTGCCAAGCTCCAAGGGAGGAAGACCAAAGAAGGCCTGATTGGGCTGTTGCAGGAAGGAAACACAAGTGT  
ATTAGTAGAGGTAAGTGTGAGACAGATTTTGTCTAGAAATTTAAATTTCAACTGTTGGTCCAGCAA  
GTAGCCCTTGAACCATGATGCATTGTCAGACCCTAAAGGATCAACCCTCTGCATACAGTAAAGTGCACT  
GGCTCACGCCCTGTAACCTAGCACTTTGGGAGGCTGAAGCAGGTGGATCACTTGAGGGTTTCTTGAATTC  
CTCTGAGCTTTCTGGACTTCCAGCTGGGCTGACAGAGAAGGCTCAAGGATCAGTTGGCTTTAGCA  
ATTGAAAAGTGGGAGAAAACATGATTCTTAAACGAGCTGCATGGGTGAAGTGCCATCTGGGTTTACG  
TTGGCTCTATGTCCACGGAGCAATGCAGAGTCCCTCACTTACAAGCTGGTGTGGGGAAGTATGGGGC  
CCTGGTCATCTGTGAGACGTCTGAACAGAAAACAACCTTGAAGACGTTGGCCCGCCTTGGGCAGCAT  
GTGGTGGGCATGGCCCCCTCTGTTGGCTCCCTGGACGATGAGCCTGGGGGAGAGGCAGAGACTAAGA  
TGCTGTCCAGCCGTATTTGCTGGATCCCTCCATTACCTTGGGGCAGTATGTGCAGCCTCAGGGGTGTC  
GGTAGTAGACTTTGTGCGGTTTGAATGTGGAGAAGGTGAAGAGGCAGCAGAACTGAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



[View online >](#)

**Protein Sequence:** >RG229920 representing NM\_001172696  
 Red=Cloning site Green=Tags(s)

MSLLRSLRVFLVARTGSYPAGSLLRQSPQPRHTFYAGPRLSASASSKELLMKLRRTGYSFVNCKKALET  
 CGGDLKQAEIWLHKEAQKEGWSKAAKLQGRKTK EGLIGLLQEGNTTVLVEVNCETDFVSRNLKFQLLVQQ  
 VALGTMHCQTLKDQPSAYSQVQLTPVNLALWEAEAGSLEGLNNSSEL SGLPAGPDREGSLKDQLALA  
 IGKLGEMMILKRAAWVKVPSGFVYVGSYVHGAMQSPSLHKLVLGKYGALVICETSEQKTNLEDEVGRRLGQH  
 VVGMAPLSVGSGLDDEPGGEAETKMLSQPYLLDPSITLGGYVVPQGVSVVDFVRFECGEGEEAAETE

TRTRPLE - GFP Tag - V

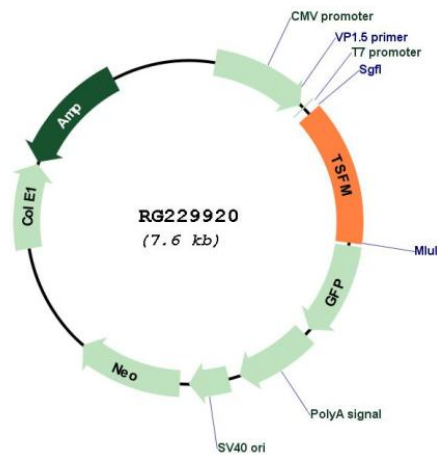
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001172696

**ORF Size:** 1038 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_001172696.2</a>
<b>RefSeq Size:</b>	2102 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	10102
<b>UniProt ID:</b>	<a href="#">P43897</a>
<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]