

Product datasheet for **RG229705**

TSFM (NM_001172697) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TSFM (NM_001172697) 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: >RG229705 representing NM_001172697
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCTGCTGCGGTGCTGCGGTGTTTCTGGTCGCGCGGACCGGGAGCTACCGGCTGGGTCTCTTC
TGCCTCAGTCGCCCCAGCCAAGGCACACATTTTATGCTGGGCCCGTCTGTCTGCCTCGGCTCCAGCAA
GGAGCTCCTCATGAAGCTGCGGCGGAAAACAGGCTACTCCTTTGTAATTGCAAGAAAGCTGGAGACT
TGTGGCGGGACCTCAAACAGGCAGAGATCTGGCTCCACAAGGAGGCCAGAAAGGAGGGCTGGAGCAAAG
CTGCCAAGCTCCAAGGGAGGAAGACCAAAGAAGGCCTGATTGGGCTGTTGCAGGAAGGAAACACAACCTGT
ATTAGTAGAGGTAACACTGTGAGACAGATTTTGTCTAGAAATTTAAATTTCAACTGTTGGTCCAGCAA
GTAGCCCTTGAACCATGATGCATTGTCAGACCCTAAAGGATCAACCCTCTGCATACAGTAAAGTTTCT
TGAATTCCTCTGAGCTTTCTGGACTTCCAGCTGGGCTGACAGAGAAGGCTCACTCAAGGATCAGTTGGC
TTAGCAATTGGTCTGCCTTTCAAATGGAGCTGTCTCTGAAGTTCAGCTTCTGAATCCAACCTCTTG
CAGAACACCTCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229705 representing NM_001172697
 Red=Cloning site Green=Tags(s)

MSLLRSLRVFLVARTGSYPAGSLLRQSPQPRHTFYAGPRLSASASSKELLMKLRRTGYSFVNCKKALET
 CGGDLKQAEIWLHKEAQKEGWSKAAKLQGRKTK EGLIGLLQEGNTTVLVEVNCETDFVSRNLKFQLLVQQ
 VALGTMHHCQTLKQDQPSAYSXKGF LNSSLSGLPAGPDREGSLKDQLALAIGLPFQIGAVSELQLPESNFL
 QNTSS

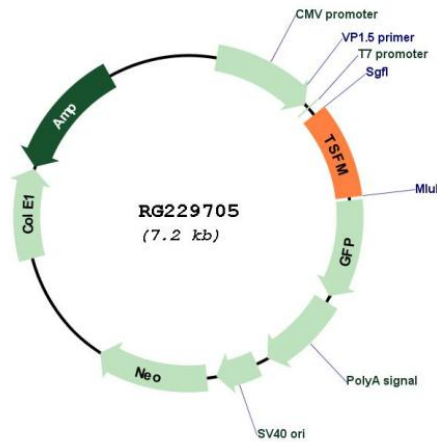
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001172697

ORF Size: 645 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.
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:	<ol style="list-style-type: none">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_001172697.1 , NP_001166168.1
RefSeq Size:	930 bp
RefSeq ORF:	648 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]