

Product datasheet for **RC229623**

TSFM (NM_001172695) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TSFM (NM_001172695) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TSFM
Synonyms: EFTS; EFTSMT
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC229623 representing NM_001172695
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCGCTGCTGCGGTGCTGCGGTGTTTCTGGTCGCGCGGACCGGGAGCTACCCGGCTGGGTCTCTTC
TGCCTCAGTCGCCCAGCCAAGGCACACATTTTATGCTGGGCCCGTCTGTCTGCCTCGGCTCCAGCAA
GGAGCTCCTCATGAAGCTGCGGGGAAAACAGGCTACTCCTTTGTAATGCAAGAAAGCTGGAGACT
TGTGGCGGGACCTCAAACAGGCAGAGATCTGGCTCCACAAGGAGGCCAGAAAGGAGGGCTGGAGCAAAG
CTGCCAAGCTCCAAGGGAGGAAGACCAAAGAAGGCCTGATTGGGCTGTTGCAGGAAGGAAACACAAGT
ATTAGTAGAGGTAAGTGTGAGACAGATTTTGTCTAGAAATTTAAATTTCAACTGTTGGTCCAGCAA
GTAGCCCTTGAACCATGATGCATTGTCAGACCCTAAAGGATCAACCCTCTGCATACAGTAAAGAAAAC
GGGAGAAAACA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229623 representing NM_001172695
Red=Cloning site **Green**=Tags(s)

MSLLRSLRVFLVARTGSYPAGSLLRQSPQPRHTFYAGPRLSASASSKELLMKLRRTGYSFVNCKKALET
CGGDLKQAEIWLHKEAQKEGWSKAAKLQGRKTKLEGLIGLLQEGNTTVLVEVNCETDFVSRNLKFQLLVQQ
VALGTMHHCQTLKDQPSAYSKENWEKT

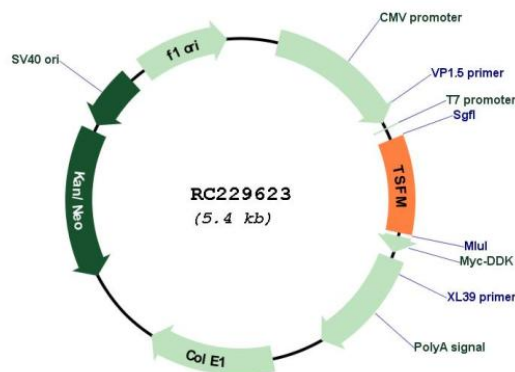
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-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.

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_001172695.2
RefSeq ORF:	504 bp
Locus ID:	10102
UniProt ID:	P43897
Cytogenetics:	12q14.1
Protein Families:	Transcription Factors
MW:	19.2 kDa
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]