

Product datasheet for **MG204717**

Tsfm (NM_025537) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tsfm (NM_025537) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tsfm
Synonyms: 2310050B20Rik; 9430024O13Rik; EF-TS; EF-Tsmt
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204717 representing NM_025537
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGCTACTGCGGTGCTGCGCTTCTCCCGGTCGCGTGCACCGGCCGCTCGGCGAGGGCTGTCTGC
 TCCAGCCGTCCCAGCCATGGCTCACGTTTCATGCCGGCCCTCGCTGTCTCTGCTGCCTCCAGCAAGGA
 GCTCCTTATGAACTGCGGCGGAAAACCGGCTACTCCTTTGTCAACTGCAAGAAGGCTTTGGAGACTTGT
 GCGGTGACCTCAAGCAGGCAGAGGACTGGCTGCACAAACAGGCCAGAAGGAAGGATGGAGCAAAGCCG
 CCAAGCTCCACGGGAGGAAGACTAAAGAAGGCTTGATTGGACTTCTGCAGGAGGAAACACAGCTGTTTT
 AGTAGAGGTAAACTGTGAGACAGATTTTGTCTCCAGAAATTTAAATTTCAACAGTTGGTCCAGCAAGTA
 GCCCTGGGAACCATGGCACACTGTCAGAACCTGACGGATCGGCTCTCCACGTACAGTAAGGGCTTTCTCA
 ACTCCTCTGAGCTTTCTGAACTGCAGCTGGGCCCGACAGGGAAGGCTCTCTCAAGGATCAGTTGGCCCT
 AGCGATTGGTAAACTGGGAGAGAACATGATTCTTAAGCGAGCTGCCTGGGTGAAGGTGCCCTCTGGGTTCT
 TATGTCGGCTCTTATGTGCACGGAGTGACGCAGAGCCCTCCCTCCAGAACCTGGTGTGGGGAAGTACG
 GGGCCCTGGTCATCTGTGAGACTCCCGAGCAGATCGCAAACCTGGAGGAGGTTGGCCGCCGCTTGGGGCA
 GCACGTGGTGGGCATGGCCCTCTCTGTGGGCTCCCTGGACGATGAGCCTGGGGGGGAGACGGAGACC
 AGGATGCTGCCCCAGCCGTACCTCCTGGATCCTTCCATTACACTGGGGCAGTACGTGCAGCCCCAGGGCG
 TGACTGTAGTGGACTTCGTGCGCTTCGAATGTGGAGAAGACGAACAGGTGGCCGAGGCTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204717 representing NM_025537
 Red=Cloning site Green=Tags(s)

MSLLRSLRFFPVACTGRSARAVLLQPSQPWLTFHAGPSLSSAASSKELLMKLRRTGYSFVNCKKALET
 GGDLKQAEDWLHKQAQKEGWSKAAKLHGRKTKEGLIGLLQEGNTAVLVEVNCETDFVSRNLKFQQLVQQV
 ALGTMHCQNLTDRLSTYSKGF LNSSSELSELAAGPDREGSLKDQLALAIKGLGENMILKRAAWVKVPSGF
 YVGSYVHGVTQSPSLQNLV L GKYGALVICETPEQIANLEEVGRRLGQHVVGMAPLSVGS LDDEPGGETET
 RMLPQPYLLDPSITL GQYVQPQGVTVVDFVRFECGEDEQVAEAE

TRTRPLE - GFP Tag - V

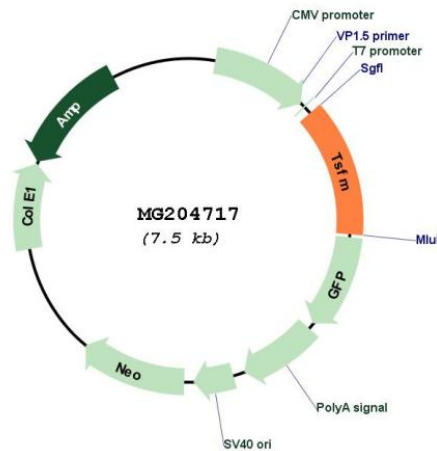
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_025537

ORF Size: 972 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_025537.2
RefSeq Size:	1180 bp
RefSeq ORF:	975 bp
Locus ID:	66399
UniProt ID:	Q9CZR8
Cytogenetics:	10 D3
Gene Summary:	Associates with the EF-Tu.GDP complex and induces the exchange of GDP to GTP. It remains bound to the aminoacyl-tRNA.EF-Tu.GTP complex up to the GTP hydrolysis stage on the ribosome.[UniProtKB/Swiss-Prot Function]