

Product datasheet for **RG223435**

TEFM (NM_024683) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TEFM (NM_024683) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TEFM
Synonyms:	C17orf42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223435 representing NM_024683 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGGGTCTGTCTCTTCACGGCGGGAGAGAGGTGGAGATGCTTTCTGACCCCGTCGAGGTCATCCC
TGTACTGGCCTTACATAATTTCTGCTGTCGGAATAATCCACTACACCTAAGAAAATTACTCCCAATGT
TACTTTTTGTGATGAAAATGCAAAGGAGCCGAAAATGCACTTGACAAGCTTTCTTTCAGAACAGCAG
GCTTCCATCTGCATGTGTTGAATACAGCATCTACTAAAGAACTGAAGCTTTCCGATTGCTTCGTGGAA
GAAGGTCCATCAATATCGTAGAGCACAGAGAAAACCTTTGGGCCATTTAGAAATTTAGAGAGTTAATGAA
TGTGCCCTTGTTAAGTATAAAAGTACAGTTCAAGTTTGTAACTCCATACTTTGTCCAAAGACTGGACGG
GAAAAAGAAAAGTACCCGAAAACCGGTTCTGAGAAAAGCTCCTCAAACAGACATAGAAAAGAGAAAGAC
TTAAGGCAGTTAATAGTATCATATCTATCGTTTTTGGTACTCGAAGAATTGCCTGGGCTCACCTTGATCG
TAAGTTGACAGTGCTGGACTGGCAGCAAAGTGACCGTTGGAGTTAATGAGAGGAATATACTCATCATCA
GTCTATTTAGAAGAGATTTCTCGATCATTTCAAAGATGCCTAAAGCAGATTTCTATGTTCTGGAAAAA
CAGGACTTTCCATTGAGAACTCATCTCTGTTTCCAATACTGTTACATTTTCATATCATGGAAGCCATGCT
GTATGCCTTATTAATAAAAATTTTCCAGGATGGCAGCATCAGGTGCTGAGCATGAATCGAAATGCA
GTGGGAAGCATTGAACTGATGATTGGTGACTCCCGGACTAGTGGAAAAGAGCTAGTGAAGCAGTTTC
TCTTCGATTCTATACTGAAGCGGATCCTCGGGTGTCTTCCATCAGATAAAATAGTTCACTACAGACA
GATGTTTTTATCTACTGAACACAAAGAGTAGAAGAGCTTTATGATTCATTATTACAAGCTATTGCCTTC
TATGAATTAGCAGTGTGACTCTCAGCCT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223435 representing NM_024683
 Red=Cloning site Green=Tags(s)

MSGSVLFTAGERWRCFLTPSRSSLYWALHNFCCRKKSTTPKKITPNVTFCDENAKEPENALDKLFSSEQQ
 ASILHVLNTASTKELEAFRLLRGRRSINIVEHRENFGPFQNLLESLMNVPLFKYKSTVQVCNSILCPKTGR
 EKRKSPENRFLRKLKLPDIERERLKAVNSIISIVFGTRRIAWAHLDRKLTVLDWQQSDRWSLMRGIYSSS
 VYLEEISSIISKMPKADFYVLEKTGLSIQNSSLPILLHFHIMEAML YALLNKTF AQDGGQHVL SMNRNA
 VGKHFELMIGDSRTSGKELVKQFLFDSILKADPRVFFPSDKIVHYRQMFLSTELQRVEEL YDSSLQAI AF
 YELAVFDSQP

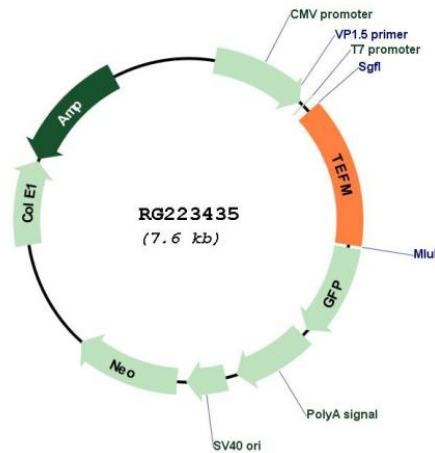
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_024683

ORF Size:	1080 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_024683.4
RefSeq Size:	1357 bp
RefSeq ORF:	1083 bp
Locus ID:	79736
UniProt ID:	Q96QE5
Cytogenetics:	17q11.2
Gene Summary:	Transcription elongation factor which increases mitochondrial RNA polymerase processivity. Regulates transcription of the mitochondrial genome, including genes important for the oxidative phosphorylation machinery.[UniProtKB/Swiss-Prot Function]