

Product datasheet for **RG227926**

MTFR1 (NM_001145838) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTFR1 (NM_001145838) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTFR1
Synonyms:	CHPPR; FAM54A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227926 representing NM_001145838 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCTTGGCTGGATTAAGCGCCTAATTAGGATGGTTTTTCAACAAGTTGGAGTAAGCATGCAATCGATTA
ACAGCCATGCAACAGAATGGAGTCCCAGCCACCCAGGAGAGGATGCAGTGGCGTCTTTTGCTGATGTTGG
ATGGGTAGCCAAAGAAGAAGGAGAGTGTTCAGCAAGACTAAGGACAGAGGTCAGATCAAGGCCACCCCTT
CAGGATGACCTTCTTTTCTTTGAGAAGGCCCAAGCAGACAGATTTCCTTACCAGACTTGTCTCAAGAAG
AGCCTCAGCTGAAGACCCAGCGCTGGCAAATGAGGAAGCACTGCAGAAGATTTGCGCTCTCGAAAATGA
ACTTGCTGCTCTCAGAGCTCAGATTGCCAAATTTGTGACCCAGCAGGAGCAGCAAAATCTCACTGCAGGT
GACTTAGATTCTACCACATTTGGTACCATACCACCACACCCTCCACCTCCCCACCGCCCCCTGCCTCCCC
CTGCACTGGGGCTCCACCAAAGTACATCTGCTGTTGATCTGATTAAGAACGAAGAGAGAAAAGAGCCAA
TGCTGGAAAGACTTTGGTTAAGAACAATCCAAAGAAACCTGAAATGCCAAATATGCTAGAGATCCTTAA
GAGATGAACAGTGTAACCTTCGGTCAGTGAAGAGGTCAGAGCAAGATGTGAAGCCCAAGCCAGTGGATG
CTACTGACCCTGCTGCCCTCATAGCAGAGGCTCTGAAAAAGAAATTTGCTTATCGGTATCGAAGTGATAG
CCAAGATGAAGTTGAAAAAGGAATTCAAAGTCTGAATCAGAGGCCACCTCAGAGAGAGTGTGTTTGGG
CCACACATGTTGAAGCCAACAGGAAAAATGAAGGCTTTAATTGAAATGTATCAGACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227926 representing NM_001145838
 Red=Cloning site Green=Tags(s)

MLGWIKRLIRMVFQQVGVSMQSIINSHATEWSPSHPGEDAVASFADVGWVAKEEGECSARLRTEVRSRPPL
 QDDLFFFEKAPSRQISLPDLSQEEPQLKTPALANEEALQKICALENELAAIRAQIAKIVTQQEQQLTAG
 DLDSTTFGTIPHPPPPPPPPLPPALGLHQSTSAVDLKERREKRANAGKTLVKNNPKKPEMPNMLEILK
 EMNSVKLRSVKRSEQDVKPKPVDATDPAALIAEALKKKFAYRYSQDEVEKGIPKSESEATSERVLFG
 PHMLKPTGKMKALIENVSDS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145838

ORF Size: 900 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:

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_001145838.1](#), [NP_001139310.1](#)

RefSeq Size: 2509 bp

RefSeq ORF: 903 bp

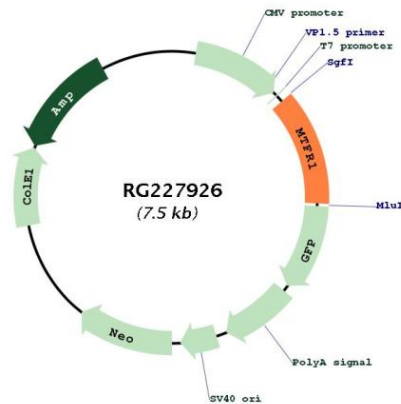
Locus ID: 9650

UniProt ID: [Q15390](#)

Cytogenetics: 8q13.1

Gene Summary: This gene encodes a mitochondrial protein that is characterized by a poly-proline rich region. A chicken homolog of this protein promotes mitochondrial fission and the mouse homolog protects cells from oxidative stress. A related pseudogene of this gene is found on chromosome X. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RG227926