

Product datasheet for **RG206669**

Mitochondrial Ferritin (FTMT) (NM_177478) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mitochondrial Ferritin (FTMT) (NM_177478) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mitochondrial Ferritin
Synonyms:	MTF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206669 representing NM_177478 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTCCTGCTTCAGGCTCCTCTCCAGGCACATCAGCCCTTCGCTGGCGTCTCTGCGCCCGGTGCGCT
GCTGCTTCGCGCTCCCGCTGCGTTGGGCCCGGGCGCCCTTGGACCCAGGCAGATCGCCCCCGCCG
CCCCCTGGCCGACGCCCTCCTCCGGGACCCTACCGGGCCCGCCGCCCCCTCGGGTGCGCCAG
AACTCCACCCCGACTCCGAGGCTGCCATCAACCGCCAGATCAACCTCGAGCTCTATGCGTCTACGTGT
ACTTGTCCATGGCCTATTACTTCTCCGGGATGACGTGGCCTTGAACAACTTCTCCAGGTATTTCTTCA
CCAGTCCCGGGAGGAGACCGAGCACGCGGAGAAGCTGATGAGGCTGCAGAACCGAGGAGGCCGATC
CGCTGCAGGACATCAAGAAGCCGGAACAGGACGACTGGGAAAGCGGGTGCATGCCATGGAGTGTGCTC
TACTCTTGAAAAGAAGCTGAACCAAGTCTGCTGGAATTGCACGCTCTAGCCTCAGATAAAGGTGACCC
CCATTTGTGCGATTTCTGGAACTACTACCTGAATGAGCAGGTGAAGTCTATCAAAGAAGTGGTGC
CACGTGCACTTAGTGAAGATGGGGCCCGGATGCTGGCCTGGCGGAGTACCTTTTGGACACACATA
CCCTTGAAATGAAAACAAGCAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206669 representing NM_177478
 Red=Cloning site Green=Tags(s)

MLSCFRLLSRHISPLASLRPVRCCFALPLRWAPGRPLDPRQIAPRRPLAAAASSRDPTGPAAGPSRVRQ
 NFHPDSEAAINRQINLELYASYVYLSMAYYFSRDDVALNNSRYFLHQSREETEHAEKLMRLQNQRGGRI
 RLQDIKPEQDDWESGLHAMECALLLEKNVNQSLLELHALASDKGDPHLCDFLETYYLNEQVKSIKELGD
 HVHNLVKMGAPDAGLAEYLFDTHTLGNENKQN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177478

ORF Size: 726 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_177478.2](#)

RefSeq Size: 894 bp

RefSeq ORF: 729 bp

Locus ID: 94033

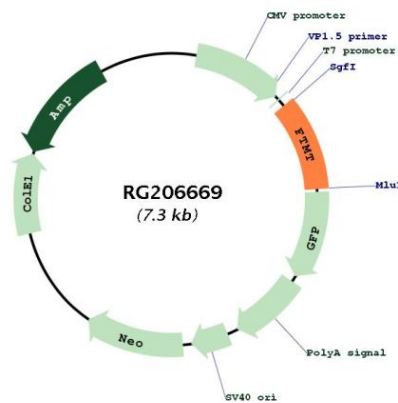
UniProt ID: [Q8N4E7](#)

Cytogenetics: 5q23.1

Protein Pathways: Porphyrin and chlorophyll metabolism

Gene Summary: Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Has ferroxidase activity. Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206669