

## Product datasheet for **MR219381**

### **Ftmt (NM\_026286) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ftmt (NM\_026286) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ftmt  
**Synonyms:** 4930447C24Rik; FerH; Fth3; MtF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR219381 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGTCCTGCTTTTGGTTCTTCTCCAAGCACATCAGCTCTGCACTGATGTCCCTGCCCGTGTGTTAC  
 ACAGATTCAGTCCCCACAGTGTGGCTCCAGGTATCCTTTAGGTCCCCTACTGGCCTCCCCTCGACG  
 CCTCCTGGCCTCGGTGGCTTCTCTCAGGACTCCACTAGACCTTCCAGGGTCCGCCAGAATTTACCCG  
 GACTCGGAGGCTGCTATCAACCGCCAAATCAACCTGGAGCTTTACGCATCCTACGTGTACCTGTCCATGG  
 CTTACTACTTCTCCAGGGATGATGTGGCCTTGATAAATTCTCCAAGTATTTCTTCGCCAGTCCCTGGA  
 AGAGAGGGAACATGCAGAGAAGCTAATGAAACTGCAGAACCAGCGAGGAGGCCGGATCTGCCTCCAGGAC  
 ATCAAGAAGCCAGATAAAGATGACTGGGAATGCGGACTGCGGGCCATGGAATGTGCCCTGCTCCTGGAAA  
 AGAATGTAACCAGTTCGCTGCTGGACTTACATACTCTGGCCTCAGAAAAAGGAGATCCTCATTTGTGTGA  
 CTTTCTGGAAACTCACTACCTGCATGAGCAAGTGAAGTCTATCAAAGAATTAGGTGACCAGTGCACAAC  
 TTAGTCACCATGGGGCTCCAGCCGCGGGCTTAGCGGAATATCTTTTCGACAAGCACACGCTTGGAAAGCG  
 AGAGCAAGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR219381 protein sequence  
 Red=Cloning site Green=Tags(s)

MLSCFWFFSKHISSALMSLPRVLHRFTAPQCLASRYPLGPLLASPRLLASVASSQDSTRPSRVRQNFHP  
 DSEAAINRQINLELYASYVYLSMAYYFSRDDVALYNFSKYFLRQSLEREHAEKLMKLQNRGGRICLQD  
 IKKPKDDWECGLRAMECALLLEKNVNQSLDLHLTASEKGDPHLCDFLETHYLHEQVKSIKELGDHVHN  
 LVTMGAPAAGLAEYLFDKHTLGSESKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_026286

**ORF Size:** 714 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\\_026286.3](#), [NP\\_080562.2](#)

**RefSeq Size:** 1461 bp

**RefSeq ORF:** 714 bp

**Locus ID:** 67634

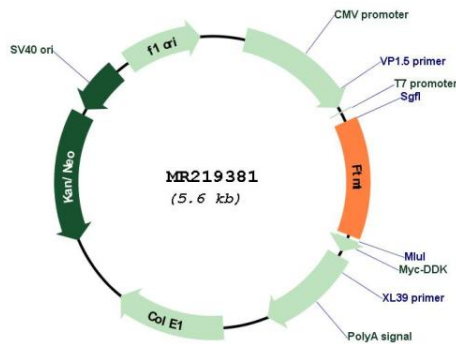
**UniProt ID:** [Q9D5H4](#)

**Cytogenetics:** 18 D1

**MW:** 27.2 kDa

**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 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219381