

## Product datasheet for **MG219381**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ftmt (NM_026286) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ftmt
Synonyms:	4930447C24Rik; FerH; Fth3; MtF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219381 representing NM_026286 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGTCCTGCTTTTGGTTCTTCTCCAAGCACATCAGCTCTGCACTGATGTCCCTGCCCGTGTGTTAC  
ACAGATTCAGTCCCCACAGTGCTTGGCCTCCAGGTATCCTTTAGGTCCCCTACTGGCCTCCCCTCGACG  
CCTCCTGGCCTCGGTGGCTTCTCTCAGGACTCCACTAGACCTTCCAGGGTCCGCCAGAATTTACCCG  
GACTCGGAGGCTGCTATCAACCGCCAAATCAACCTGGAGCTTTACGCATCCTACGTGTACCTGTCCATGG  
CTTACTACTTCTCCAGGGATGATGTGGCCTTGTATAACTTCTCCAAGTATTTCTTCGCCAGTCCCTGGA  
AGAGAGGGAACATGCAGAGAAGCTAATGAACTGCAGAACCAGCGAGGAGGCCGGATCTGCCTCCAGGAC  
ATCAAGAAGCCAGATAAAGATGACTGGGAATGCGGACTGCGGGCCATGGAATGTGCCCTGCTCCTGGAAA  
AGAATGTAACCAGTTCGCTGCTGGACTTACATACTCTGGCCTCAGAAAAAGGAGATCCTCATTTGTGTGA  
CTTTCTGGAACTCACTACCTGCATGAGCAAGTGAAGTCTATCAAAGAATTAGGTGACCAGTGCACAAC  
TTAGTCACCATGGGGCTCCAGCCGCGGGCTTAGCGGAATATCTTTTCGACAAGCACACGCTTGGAAAGCG  
AGAGCAAGCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG219381 representing NM\_026286  
Red=Cloning site Green=Tags(s)

MLSCFWFFSKHISSALMSLPRVLHRFTAPQCLASRYPLGPLLASPRLLASVASSQDSTRPSRVRQNFHP  
 DSEAAINRQINLELYASYVYLSMAYYFSRDDVALYNFSKYFLRQSLEREHAEKLMLQNRGGRICLQD  
 IKKPKDDWECGLRAMECALLLEKNVNQSLLDLHTLASEKGDPHLCDFLETHYLHEQVKS IKELGDHVHN  
 LVTMGAPAAGLAEYLFDKHTLGSESKH

TRTRPLE - GFP Tag - V

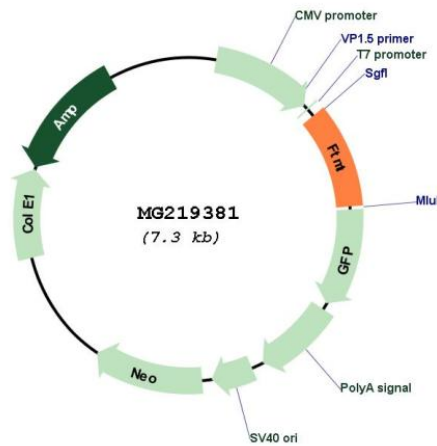
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_026286

**ORF Size:** 711 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_026286.3</a> , <a href="#">NP_080562.2</a>
<b>RefSeq Size:</b>	1461 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	67634
<b>UniProt ID:</b>	<a href="#">Q9D5H4</a>
<b>Cytogenetics:</b>	18 D1
<b>Gene Summary:</b>	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]