

## Product datasheet for MR201645

### Fth1 (NM\_010239) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fth1 (NM\_010239) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Fth1  
**Synonyms:** FHC; Fth; HfT; MFH  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201645 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCACCGCGTCTCCCTCGCAAGTGCGCCAGAACTACCACCAGGACGCGGAGGCTGCCATCAACCGCC  
 AGATCAACCTGGAGTTGTATGCCTCCTACGTCTATCTGTCTATGTCTTGTATTTTGACCGAGATGATGT  
 GGCTCTGAAGAACTTTGCCAAATACTTTCTCCACCAATCTCATGAGGAGAGGGAGCATGCCGAGAACTG  
 ATGAAGCTGCAGAACGAGCGAGGTGGCCGAATCTTCTGCAGGATATAAAGAAACCAGACCGTGATGACT  
 GGGAGAGCGGGCTGAATGCAATGGAGTGTGCACTGCACCTTGAAAAGAGTGTGAATCAGTCACTACTGGA  
 ACTGCACAACTGGCTACTGACAAGAATGATCCCCACTTATGTGACTTCATTGAGACGTATTATCTGAGT  
 GAACAGGTGAAATCCATTAAGAACTGGGTGACCACGTGACCAACTTACGCAAGATGGGTGCCCTGAAG  
 CTGGCATGGCAGAATATCTCTTTGACAAGCACACCCTGGGACACGGTGATGAGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201645 protein sequence  
 Red=Cloning site Green=Tags(s)

MTTASPSQVRQNYHQDAEAAINRQINLELYASYVYLSMSCYFDRDDVALKNFAKYFLHQSHEEREHAEKL  
 MKLQNRGGRIFLQDIKKPDRDDWESGLNAMECALHLEKSVNQSLLELHKLATDKNDPHLCDFIETYYLS  
 EQVKSIELGDHVTNLRKMGAPAEAGMAEYLFDKHTLGHGDES

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_010239

**ORF Size:** 546 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

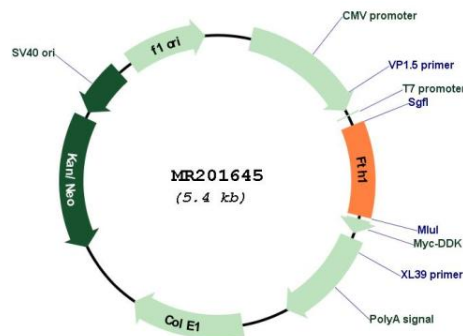
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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.

<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_010239.2</u>
<b>RefSeq Size:</b>	942 bp
<b>RefSeq ORF:</b>	549 bp
<b>Locus ID:</b>	14319
<b>UniProt ID:</b>	<u>P09528</u>
<b>Cytogenetics:</b>	19 6.23 cM
<b>MW:</b>	21.1 kDa
<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. Also plays a role in delivery of iron to cells. Mediates iron uptake in capsule cells of the developing kidney.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR201645