

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)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCACCGGTCTCCCTCGCAAGTGCGCCAGAACTACCACCAGGACGCGGAGGCTGCCATCAACCGCC
 AGATCAACCTGGAGTTGTATGCCTCCTACGTCTATCTGTCTATGTCTTGTATTTTGACCAGATGATGT
 GGCTCTGAAGAACTTTGCCAAATACTTTCTCCACCAATCTCATGAGGAGAGGGAGCATGCCGAGAACTG
 ATGAAGCTGCAGAACCGAGGTGGCCGAATCTTCTGCAGGATATAAGAAACCAGACCGTGATGACT
 GGGAGAGCGGGCTGAATGCAATGGAGTGTGCACCTGCACCTTGGAAAAGAGTGTGAATCAGTCACTACTGGA
 ACTGCACAACTGGCTACTGACAAGAATGATCCCCACTTATGTGACTTCATTGAGACGTATTATCTGAGT
 GAACAGGTGAAATCCATTAAGAACTGGGTGACCACGTGACCAACTTACGCAAGATGGGTGCCCTGAAG
 CTGGCATGGCAGAATATCTCTTTGACAAGCACACCCTGGGACACGGTGATGAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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

MTTASPSQVRQNYHQDAEAAINRQINLELYASYVYLMSCYFDRDDVALKNFAKYFLHQSHREERHAEKL
 MKLQNRGGRIFLQDIKPPDRDDWESGLNAMECALHLEKSVNQSLLELHKLATDKNDPHLCDFIETYYLS
 EQVKSIELGDHVTNLRKMGAPAEAGMAEYLFDKHTLGHGDES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_010239

ORF Size: 549 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 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.

RefSeq: [NM_010239.2](#)

RefSeq Size: 942 bp

RefSeq ORF: 549 bp

Locus ID: 14319

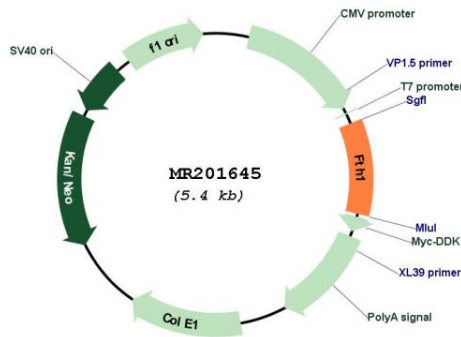
UniProt ID: [P09528](#)

Cytogenetics: 19 6.23 cM

MW: 21.1 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. 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