

## Product datasheet for **MG225367**

### Hfe (NM\_010424) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hfe (NM_010424) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hfe
Synonyms:	MR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225367 representing NM_010424 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCTATCAGCTGGGCTCCCTGTGCGGCCGCTGCTGCTGCTGCTACTGCTGTGGTCCGTGGCCC  
CGCAGGCACTGCCACCGCTTACATTCTAAGATACCTTTCATGGGTGCCTCAGAGCCAGACCTCGG  
GCTGCCTTTGTTGAGGCTAGGGCTATGTGGATGACCAGCTCTTGTGCTTACAATCATGAGAGTCGC  
CGTGCTGAGCCCAGGGCCCGTGGATCTTGGAGCAAACCTCAAGCCAGCTGTGGTGCATCTGAGTCAGA  
GCCTGAAAGGGTGGGACTACATGTTTCATAGTAGACTTCTGGACCATCATGGCAACTATAACCACAGTAA  
GGTCACGAAGTTGGGAGTGGTGTCCGAGTCCCACATCCTGCAGGTGGTCCTAGGCTGTGAGGTGCATGAA  
GACAACAGTACCAGCGGCTTCTGGAGATATGGTTATGACGGGCAAGATCACCTGGAATTCGCCCAAGA  
CACTAACTGGAGCGCAGCCGAGCCAGGGCCCTGGGCCACCAAGGTGGAATGGGACGAGCACAAGATCCG  
TGCCAAACAGAACAGGGACTACCTGGAGAAGGACTGCCCGAGCAGCTGAAACGGCTCCTGGAGCTGGGG  
AGAGGCGTTCTGGGACAGCAAGTGCCTACTTTGGTAAAGTGACTCGCCACTGGGCTCTACGGGACCT  
CTCTAAGGTGTCAGGCTCTAGACTTCTCCCCAGAACATCACTATGAGGTGGTTGAAGGACAACCAACC  
ACTGGATGCCAAAGATGTCAACCCGAGAAGGTGCTACCTAACGGGGATGAGACCTATCAAGGCTGGCTG  
ACATTGGCCGTGGCCCCGGGGACGAGACAAGGTTACCTGTCAAGTGGAGCACCAGGCCTGGACCAGC  
CTCTCACTGCCTCTTGGGAGCCCTTGAATCTCAGGCCATGATTATTGGAATCATCAGTGGGTCACCAT  
CTGTGCCATCTTCTAGTTGAATTCTGTTCTCTAATCTTAAGGAAAAGGAAGGCTTCAGGAGGAACCATG  
GGTGGCTATGTCTTAACAGACTGTGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225367 representing NM\_010424  
 Red=Cloning site Green=Tags(s)

MSLSAGLPVRPLLLLLLLLLWSVAPQALPPRSHSLRYLFMGASEPDLGLPLFEARGYVDDQLFVSYNHESR  
 RAEPRAPWILEQTSSQLWLHLSQSLKGDYMFIVDFWTIMGNYNHSKVTKLGVVSESHILQVVLGCEVHE  
 DNSTSGFWRYGYDGDHLEFCPKTLNWSAAEPGAWATKVEWDEHKIRAKQNRDYLEKDCPEQLKRILLELG  
 RGVLGQQVPTLVKVRHWASTGTSLRCQALDFFPQINITMRWLKDNQPLDAKDVNPEKVLPNGDETYQGWL  
 TLAVAPGDETRFTCQVEHPGLDQPLTASWEPLQSQAMIIGIISGVTICAIIFLVGILFLILRKRKASGGTM  
 GGYVLTDC

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1824\\_b05.zip](https://cdn.origene.com/chromatograms/ja1824_b05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010424

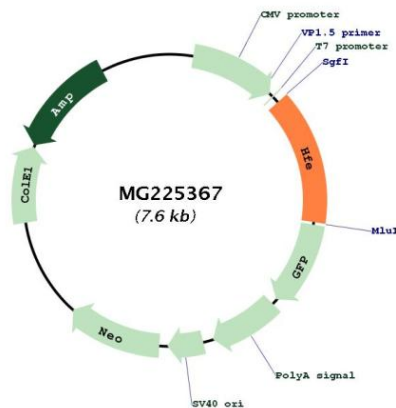
**ORF Size:** 1077 bp

**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](#)

<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>	<u>NM_010424.1</u>
<b>RefSeq Size:</b>	1722 bp
<b>RefSeq ORF:</b>	1080 bp
<b>Locus ID:</b>	15216
<b>UniProt ID:</b>	<u>P70387</u>
<b>Cytogenetics:</b>	13 9.88 cM
<b>Gene Summary:</b>	Binds to transferrin receptor (TFR) and reduces its affinity for iron-loaded transferrin. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG225367