

Product datasheet for MR225367

Hfe (NM_010424) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hfe (NM_010424) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hfe
Synonyms:	MR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225367 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCTATCAGCTGGGCTCCCTGTGCGGCCGCTGCTGCTGCTGCTACTGCTGTGGTCCGTGGCCC
CGCAGGCACTGCCACCGCTTACATTCTAAGATACCTCTTCATGGGTGCCTCAGAGCCAGACCTCGG
GCTGCCTTTGTTGAGGCTAGGGCTATGTGGATGACCAGCTCTTGTGCTTACAATCATGAGAGTCGC
CGTGTGAGCCCAGGGCCCGTGGATCTTGAGCAAACCTCAAGCCAGCTGTGGTGCATCTGAGTCAGA
GCCTGAAAGGGTGGGACTACATGTTTCATAGTAGACTTCTGGACCATCATGGCAACTATAACCACAGTAA
GGTCACGAAGTTGGGAGTGGTGTCCGAGTCCCACATCCTGCAGGTGGTCCTAGGCTGTGAGGTGCATGAA
GACAACAGTACCAGCGGCTTCTGGAGATATGGTTATGACGGGCAAGATCACCTGGAATCTGCCCAAGA
CACTAACTGGAGCGCAGCCGAGCCAGGGGCTGGGCCACCAAGGTGGAATGGGACGAGCACAAGATCCG
TGCCAAACAGAACAGGGACTACCTGGAGAAGGACTGCCCGAGCAGCTGAAACGGCTCCTGGAGCTGGGG
AGAGGCGTTCTGGGACAGCAAGTGCCTACTTTGGTAAAGTGACTCGCCACTGGGCTCTACGGGACCT
CTCTAAGGTGTCAGGCTCTAGACTTCTCCCCAGAACATCACTATGAGGTGGTTGAAGGACAACCAACC
ACTGGATGCCAAAGATGTCAACCCGAGAAGGTGCTACCTAACGGGGATGAGACCTATCAAGGCTGGCTG
ACATTGGCCGTGGCCCCBGGGACGAGACAAGGTTACCTGTCAAGTGGAGCACCAGGCCTGGACCAGC
CTCTACTGCCTCTTGGGAGCCCTTGAATCTCAGGCCATGATTATTGGAATCATCAGTGGGTCCACCAT
CTGTGCCATCTTCTAGTTGAATTCTGTTCTCTAATCTTAAGGAAAAGGAAGGCTTCAGGAGGAACCATG
GGTGGCTATGTCTTAACAGACTGTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225367 protein sequence
 Red=Cloning site Green=Tags(s)

MSLSAGLPVRPLLLLLLLLLWSVAPQALPPRSHSLRYLFMGASEPDLGLPLFEARGYVDDQLFVSYNHESR
 RAEPRAPWILEQTSSQLWLHLSQLKGDYMFIVDFWTIMGNYNHKSVTKLGVVSESHILQVVLGCEVHE
 DNSTSGFWRYGYDGDHLEFCPKTLNWSAAEPGAWATKVEWDEHKIRAKQNRDYLEKDCPEQLKRILLELG
 RGVLGQQVPTLVKPTRHWASTGTSLRQCALDFFPQINITMRWLKDNQPLDAKDVNPEKVLPNGDETYQGWL
 TLAVAPGDETRFTCQVEHPGLDQPLTASWEPLQSQAMIIGIISGVTICAIFLVGLILFLILRKRKASGGTM
 GGYVLTDC

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_010424

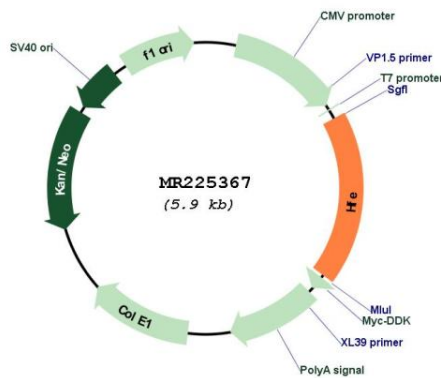
ORF Size: 1080 bp

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.

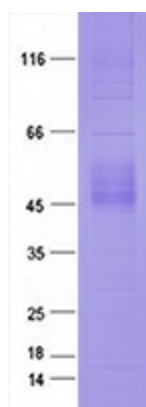
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<ol style="list-style-type: none"> 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:	<u>NM_010424.1</u>
RefSeq Size:	1722 bp
RefSeq ORF:	1080 bp
Locus ID:	15216
UniProt ID:	<u>P70387</u>
Cytogenetics:	13 9.88 cM
MW:	40.5 kDa
Gene Summary:	Binds to transferrin receptor (TFR) and reduces its affinity for iron-loaded transferrin. [UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR225367



Coomassie blue staining of purified Hfe protein (Cat# [TP525367]). The protein was produced from HEK293T cells transfected with Hfe cDNA clone (Cat# MR225367) using MegaTran 2.0 (Cat# [TT210002]).