

Product datasheet for **RR216212**

Hfe (NM_001173434) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hfe (NM_001173434) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hfe
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR216212 representing NM_001173434 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGACCGATCAGCTGGGCTCCCTGTGCGGCTGCTATTGCTGCTGCTGTTGTTGCTGCTGTGGTCCGTGG
CCCCGAGGCGCTGCGGCCGTCACGAAGTTGAGAGTGGTGCCTGAGTCTCACATCCTGCAGGTGATCCT
AGGATGTGAGGTGCATGAAGACAACAGTACCAGTGGCTTCTGAAATATGGCTACGATGGCAAGATCAC
CTTGAATTCTGCCCAAGACACTGAACTGGAGTGCAGCCGAGCCAAGGGCCTGGGCCACCAAGATGGAGT
GGGAAGAGCACAGGATCCGTGCCAGACAGAGCAGGGACTACCTGCAGAGGGACTGCCCCAGCAGCTGAA
GCAGGTCTGGAGCTCCAGAGAGGGTTCTGGACAGCAAGTGCCTACTTTGGTAAAAGTACTCGCCAC
TGGGCTCTACAGGGACCTCTAAGGTGTGAGGCTCTGAATTTCTTCCCCAGAACATCACTATGAGGT
GGTTGAAGGACAGCCAGCCCTAGATGCCAAGGATGTCAACCCTGAGAACGTGCTGCCAAATGGGGATGG
GACCTATCAGGGCTGGCTGACCTTGGCTGTGGCCCTGGAGAAGAGACAAGGTTGAGCTGTCAAGTGGAG
CACCCAGGCTGGATCAGCCTCTACTGCCACTGGGAGCCCTCACGGTCTCAGGACATGATTATTGGAA
TCATAAGTGGGATCACCATTTGTCCATCTTCTTTGTTGGAATTCTGATCCTAGTCTTAAGGAAAAGGAA
GGTTTCAGGAGGAACCATGGGTGACTATGTCTTAACAGAGTGTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216212 representing NM_001173434
Red=Cloning site Green=Tags(s)

MDRSAGLPVRLLLLLLLLLLWSVAPQALRPVTKLRVVPESHILQVILGCEVHEDNSTSGFWKYGYDGDH
 LEFCPKTLNWSAAEPRAWATKMEWEEHRIRARQSRDYLRDPCQQLKQVLELQRGVLGQQVPTLVKVTRH
 WASTGTSLRCQALNFFPQNIITMRWLKDSQPLDAKDVNPENLPLNGDGTQGWLTAVAPGEETRFSCQVE
 HPGLDQPLTATWEPSPRSQDMIIGIISGITICAIFFVGILILVLRKRKVSOGTMDGYVLTCE

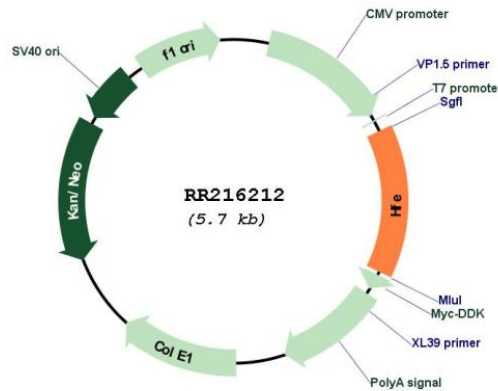
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001173434

ORF Size: 816 bp

OTI Disclaimer:	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:	NM_001173434.1 , NP_001166905.1
RefSeq Size:	1406 bp
RefSeq ORF:	819 bp
Locus ID:	29199
Cytogenetics:	17p11
MW:	30.8 kDa
Gene Summary:	membrane protein; may be involved with iron metabolism; defects in human homolog lead to hereditary hemochromatosis, an iron storage disorder [RGD, Feb 2006]