

Product datasheet for RC217560

HFE (NM_139007) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HFE (NM_139007) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HFE
Synonyms:	HFE1; HH; HLA-H; MVCD7; TFQTL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217560 representing NM_139007 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGGCCCGGAGCCAGGCCGGCGCTTCTCCTCCTGATGCTTTTGCAGACCGCGGTCTGCAGGGGCGCT
TGCTGCAGTCCCACACCCTGCAGGTCATCCTGGGCTGTGAAATGCAAGAAGACAACAGTACCGAGGGCTA
CTGGAAGTACGGGTATGATGGGCAGGACCCTTGAATTCTGCCCTGACACACTGGATTGGAGAGCAGCA
GAACCCAGGGCCTGGCCACCAAGCTGGAGTGGGAAAGGCACAAGATTCGGGCCAGGCAGAACAGGGCCT
ACCTGGAGAGGGACTGCCCTGCACAGCTGCAGCAGTTGCTGGAGCTGGGAGAGGTGTTTTGGACCAACA
AGTGCCTCCTTTGGTGAAGGTGACACATCATGTGACCTTTCAGTGACCACTCTACGGTGTGGGCTTG
AACTACTACCCCAAGACATCACCATGAAGTGGCTGAAGGATAAGCAGCCAATGGATGCCAAGGAGTTG
AACCTAAAGACGTATTGCCCAATGGGGATGGGACCTACCAGGGCTGGATAACCTTGGCTGTACCCCTGG
GGAAGAGCAGAGATATACGTGCCAGGTGGAGCACCAGGCCTGGATCAGCCCTCATTGTGATCTGGGAG
CCCTACCGTCTGGCACCTAGTCATTGGAGTCATCAGTGGAAATTGCTGTTTTTGTGTCATCTTGTTC
TTGGAATTTTGCATAATATTAAGGAAGAGGCAGGGTCAAGAGGAGCCATGGGCACTACGCTTAGC
TGAACGTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217560 representing NM_139007
Red=Cloning site Green=Tags(s)

MGPRARPALLLLMLLQTAVLQGRLLQSHTLQVILGCEMQEDNSTEGYWKYGYDGGQDHLEFCPDTLDWRAA
 EPRAWPTKLEWERHKIRARQNRAYLERDCPAQLQQLLELGRGVLDDQVPLVKVTHHVTSSVTTLCRAL
 NYYPQNIITMKWLKDKQPMDAKEFEPKDVLPNGDGTYYQGWITLAVPPGEEQRYTCQVEHPGLDQPLIVIWE
 PPSPTLVIGVISGIAVFFVILFIGILFIIILRKRQGSRGAMGHYVLAERE

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_139007

ORF Size: 780 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:

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_139007.3](#)

RefSeq Size: 1958 bp

RefSeq ORF: 783 bp

Locus ID: 3077

UniProt ID: [Q30201](#)

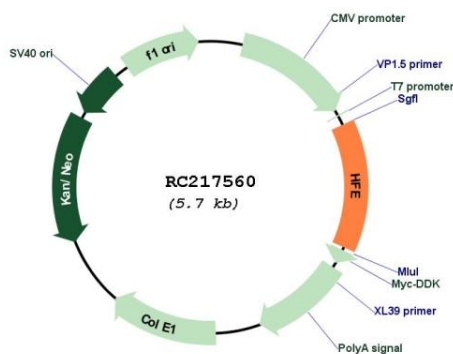
Cytogenetics: 6p22.2

Protein Families: Druggable Genome, Transmembrane

MW: 29.6 kDa

Gene Summary: The protein encoded by this gene is a membrane protein that is similar to MHC class I-type proteins and associates with beta2-microglobulin (beta2M). It is thought that this protein functions to regulate iron absorption by regulating the interaction of the transferrin receptor with transferrin. The iron storage disorder, hereditary haemochromatosis, is a recessive genetic disorder that results from defects in this gene. At least nine alternatively spliced variants have been described for this gene. Additional variants have been found but their full-length nature has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC217560