

Product datasheet for RC217624

HFE (NM_139010) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HFE (NM_139010) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HFE
Synonyms: HFE1; HH; HLA-H; MVCD7; TFQTL2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC217624 representing NM_139010
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCCCGAGCCAGGCCGGCGCTTCTCCTCCTGATGCTTTTGCAGACCGCGGTCTGCAGGGGCGCT
 TGCTGCTGCTCCTTTGGTGAAGGTGACACATCATGTGACCTCTCAGTGACCACTCTACGGTGTCCGGC
 CTTGAACACTACCCCAAGACATCACCATGAAGTGGCTGAAGGATAAGCAGCCAATGGATGCCAAGGAG
 TTCGAACCTAAAGACGTATTGCCAATGGGGATGGGACCTACCAGGGCTGGATAACCTTGGCTGTACCC
 CTGGGGAAGAGCAGAGATACGTGCCAGTGGAGCACCCAGGCCTGGATCAGCCCTCATTGTGATCTG
 GGAGCCCTCACCGTCTGGCACCTAGTCATTGGAGTCATCAGTGAATTGCTGTTTTGTGCTCATCTTG
 TTCATTGGAATTTTGTTCATAATATTAAGGAAGAGGCAGGGTTCAAGAGGAGCCATGGGGCACTACGTCT
 TAGCTGAACGTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217624 representing NM_139010
 Red=Cloning site Green=Tags(s)

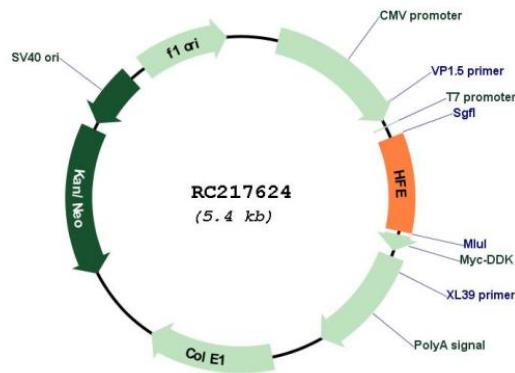
MGPRARPALLLLMLLQTAVLQGRLLPPLVKVTHHVTSSVTLRCRALNYYPNITMKWLKDKQPMDAKE
 FEPKDVLPNGDGTYQGWITLAVPPGEEQRYTCQVEHPGLDQPLIVIWEPSPSGTLVIGVISGIAVFFVIL
 FIGILFIILRKRGSRGAMGHYVLAERE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_139010

ORF Size: 504 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_139010.3
RefSeq Size:	1682 bp
RefSeq ORF:	507 bp
Locus ID:	3077
UniProt ID:	Q30201
Cytogenetics:	6p22.2
Protein Families:	Druggable Genome, Transmembrane
MW:	18.7 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]