

Product datasheet for SC119914

HFE (NM_000410) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HFE (NM_000410) Human Untagged Clone
Tag:	Tag Free
Symbol:	HFE
Synonyms:	HFE1; HH; HLA-H; MVCD7; TFQTL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119914 sequence for NM_000410 edited (data generated by NextGen Sequencing)

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ATGGGCCCGCGAGCCAGGCCGGCGCTTCTCCTCCTGATGCTTTTGCAGACCGCGTCTCTG
CAGGGGCGCTTGCTGCGTTCACACTCTCTGCACTACCTCTTCATGGGTGCCTCAGAGCAG
GACCTTGGTCTTTCTTGTGTTGAAGCTTTGGGCTACGTGGATGACCAGCTGTTTCGTGTT
TATGATCATGAGAGTCGCGTGTGGAGCCCGAACTCCATGGGTTTCCAGTAGAATTTCA
AGCCAGATGTGGCTGCAGCTGAGTCAGAGTCTGAAAGGGTGGGATCACATGTTCACTGTT
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ATCCTGGGCTGTGAAATGCAAGAAGACAACAGTACTGAGGGCTACTGGAAGTACGGGTAT
GATGGGCAGGACCACCTTGAATTCTGCCCTGACACACTGGATTGGAGAGCAGCAGAACCC
AGGGCCTGGCCCAAGCTGGAGTGGGAAAGGCACAAGATTCGGGCCAGGCAGAACAGG
GCCTACCTGGAGAGGGACTGCCCTGCACAGCTGCAGCAGTTGCTGGAGCTGGGGAGAGGT
GTTTTGGACCAACAAGTGCCTCCTTTGGTGAAGGTGACACATCATGTGACCTCTTCAAGT
ACCACTCTACGGTGTCCGGCCTTGAACACTACCCCCAGAACATCACCATGAAGTGGCTG
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GATGGGACCTACCAGGGCTGGATAACCTTGCTGTACCCCTGGGGAAGAGCAGAGATAT
ACGTGCCAGGTGGAGCACCCAGGCTGGATCAGCCCTCATTGTGATCTGGGAGCCCTCA
CCGTCTGGCACCCTAGTCATTGGAGTCATCAGTGAATTGCTGTTTTTGTGTCATCTTG
TTCATTGGAATTTTGTTCATAATATTAAGGAAGAGGCAGGTTCAAGAGGAGCCATGGGG
CACTACGTCTTAGCTGAACGTGAGTGA

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Clone variation with respect to NM_000410.3
396 c=>t



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000410 unedited
 TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGCCCCAAAAGAA
 GCGGAGATTTAACGGGGACGTGCGGCCAGAGCTGGGGAATGGGCCCGGAGCCAGGCCG
 GCGTTCTCCTCTGATGCTTTTGCAGACCGCGGTCTGCAGGGGCGCTTGTGCGTTCA
 CACTCTGCACTACCTTTTCATGGGTGCCTCAGAGCAGGACCTTGGTCTTTCCTTGTTT
 GAAGCTTTGGGCTACGTGGATGACCAGCTGTTCTGTTCTATGATCATGAGAGTCGCCGT
 GTGGAGCCCCGAACCTCCATGGGTTTCCAGTAGAATTTCAAGCCAGATGTGGCTGCAGCTG
 AGTCAGAGTCTGAAAGGGTGGGATCACATGTTCACTGTTGACTTCTGGACTATTATGGAA
 AATCACAAACCACAGCAAGGAGTCCCACACCCTGCAGGTCATCCTGGGCTGTGAAATGCAA
 GAAGACAACAGTACTGAGGGCTACTGGAAGTACGGGTATGATGGGCAGGACCACCTTGAA
 TTCTGCCCTGACACACTGGATTGGAGAGCAGCAGAACCAGGGCCTGGCCACCAAGCTG
 GAGTGGGAAAGGCACAAGATTCGGGCCAGGCAGAACAGGGCCTACCTGGAGAGGGACTGC
 CCTGCACAGCTGCANCAGTTGCTGGAGCTGGGGAGAGGTGTTTTGGACCAACAGTGCCTC
 CTTTGGTGAAGTGACACATCATGTGACCTTTCAGTGACCACTCTACGGTGTCCGNCCTT
 GAACTACTANCCCCAGACATCACCATGAAGTGGCTGAAGGATAGCAGCCATGGATGCCAN
 GNAGNTCGAACCTAAGACGTATTGCCCATGGNGGATGGGACCTACCANGGCTGGATACCN
 TNGNCTGTANCCCTGNAGNAGAGCANANAATACGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000410 unedited
 AACGCGGCCACTACTAGAGTCGAGNTCTTTTTTTTTTTTTTTTTTTTACTTTTTTTTTTTT
 GAAAAGGAGTCTCACTTTGTTACCTTAAGCTGGTATTGCATTGTTTTCAAACTTTTTTTTT
 ACTGTTATCTTTGTCTTTGGGTTTCATGCCTTTTTCTGCCTTATTCTTTCTATTACTTG
 GGACTACAGGCGTCCGTACCACGCCCATTTAATTTTTGTATTTTTACTAAAAATGGGG
 TTTACCATGTTACCCATGATGGTCTCGATCTCCTGACCTCGCGATCCACCCGCTTTGGC
 CTCCCAAAGCGCTGGGATTACAGCGTGAGCCAACGGGCCCGGCCTACTTATCTTTCTTC
 ATTTAAAAAGAAATGGGGATAATAGCACCTATCTCATAAAATTTGTAACAAGTGCAT
 GCAGTAATGCATGCAAACACGCGCCCAAAACACTCCGACACCAACTAACTGCCCTTATCA
 TCCTTATCATAATTTCCATTTTCAAACAAGGAGAGACCAGGTAGAAAATTTATGGGATT
 CTTCAGGGCCGGAATACCAAAGTAGCATTCCAAATGAAAGCACCATTAACCTTCTGCAAT
 CCGTATGACACCCTTCATGCCAATAGAAAATACCACTTTTACAACCCCTTTAAAAATTTT
 CCTCTACCCCGCTAAAACCCCATCTTCTCCACAGATATCCCGAAGCTTCTTTTGGAC
 AAGTGCCTTTTTATTTCCGACGCGCCAGGCTTATTCATGGGAACCGACATTAAATCACAA
 GGAATAACCCCAAGCTTTGTGACAAATGAGCCCCGGGAACACAAGAAAAGGGTTACAG
 GAAAATTTAACGCGCCCAAAATCGCTCAACCCCGGCGAAAATCCCGTAAGGTTAAACTC
 ACCCCTTCCAGGGGAAAAATNTTCTTAAAGTAAAAAGAAATCCGGAACCCCAAAATAAGG
 GATCCCTTCCAAAAGGAAAGAAACCCATAGGCACCTTTTCAGCGCCGAAAAGAGN

Restriction Sites:

NotI-NotI

ACCN:

NM_000410

Insert Size:

2820 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_000410.2](#), [NP_000401.1](#)

RefSeq Size: 2727 bp

RefSeq ORF: 1047 bp

Locus ID: 3077

UniProt ID: [Q30201](#)

Cytogenetics: 6p22.2

Domains: MHC_I, ig, IGc1

Protein Families: Druggable Genome, Transmembrane

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]
Transcript Variant: This variant (1) encodes the longest isoform. CCDS Note: This CCDS ID represents the longest isoform encoded by the HFE gene. This isoform contains both a Class I Histocompatibility antigen (MHC_I) and an Immunoglobulin constant region (IGc) domain.