

Product datasheet for SC335447

HFE (NM_001300749) Human Untagged Clone

Product data:

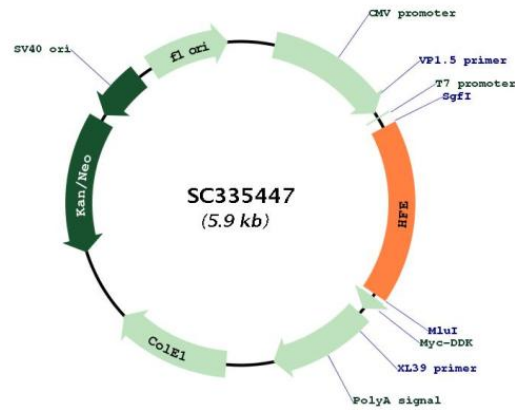
Product Type:	Expression Plasmids
Product Name:	HFE (NM_001300749) Human Untagged Clone
Tag:	Tag Free
Symbol:	HFE
Synonyms:	HFE1; HH; HLA-H; MVCD7; TFQL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335447 representing NM_001300749. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGCCCGCAGCCAGGCCGGCGCTTCTCCTCCTGATGCTTTTGCAGACCGCGGTCTGCAGGGGGCGC
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GGAAATTTGTTCAATAATTAAGGAAGAGCAGGGTTCAAGTTTC TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_001300749

Insert Size: 1014 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_001300749.1](#)

RefSeq Size: 2004 bp

RefSeq ORF: 1014 bp

Locus ID: 3077

UniProt ID: [Q30201](#)

Cytogenetics: 6p22.2

Protein Families: Druggable Genome, Transmembrane

MW: 38.9 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]
Transcript Variant: This variant (12) uses an alternate splice acceptor site at its 3'-terminal exon, compared to variant 1. This variant encodes isoform 12 which has a shorter and distinct C-terminus, compared to isoform 1.