

Specifications:

Gene:	<i>h</i> HFE
Accession:	NP_000401.1
Insert size:	1060bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

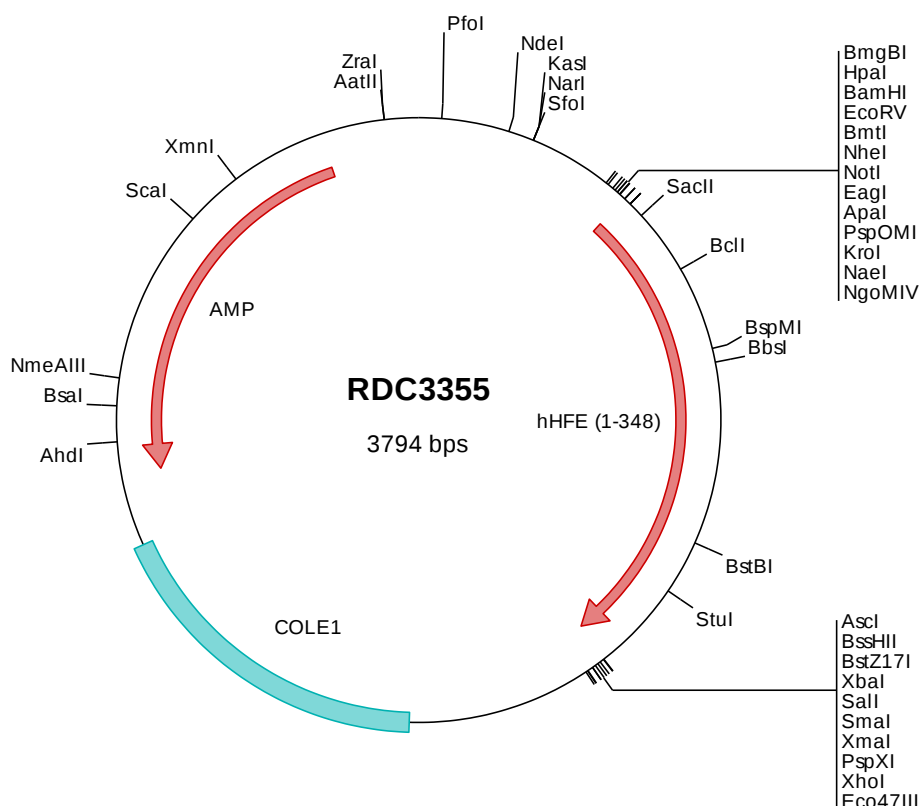
*h*HFE cDNA Plasmid

HFE homeostatic iron regulator
[*Homo sapiens* (human)]

Also known as: HH; HFE1; HLA-H;
MVCD7; TFQTL2

Summary:

HFE is a membrane protein that is similar to MHC class I-type proteins and associates with beta2-microglobulin (beta2M). It is thought that HFE 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 HFE. Alternatively spliced transcripts encoding different proteins have been described.



> RDC3355 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
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201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcg aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagctt ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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> RDC3355 Translated Insert Sequence

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201  vldqqvpplv kvthhvtssv ttllrcralny ypnitmkwl kdkqpmake fepkdvlpng dgtyqgwitl avppgeeqry tcqvehpgld qpliviweps
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