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Product datasheet for SC306105

HFE (NM_139011) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HFE (NM_139011) Human Untagged Clone
Tag:	Tag Free
Symbol:	HFE
Synonyms:	HFE1; HH; HLA-H; MVCD7; TFQTL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Restriction Sites:	Please inquire
ACCN:	NM_139011
Insert Size:	231 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_139011.1, NP_620580.1

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RefSeq Size:	533 bp
RefSeq ORF:	231 bp
Locus ID:	3077
UniProt ID:	Q30201
Cytogenetics:	6p22.2
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 (11) lacks a large internal part of the coding region but the reading frame is maintained, as compared to variant 1. The protein encoded is the shortest isoform (11). CCDS Note: This CCDS ID represents a variant of the HFE gene that lacks three internal coding exons compared to the longest variant, which is represented by CCDS4578.1. This results in an isoform that lacks both the Class I Histocompatibility antigen (MHC_I) and Immunoglobulin constant region (IGc) domains.