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Product datasheet for KN217447RB

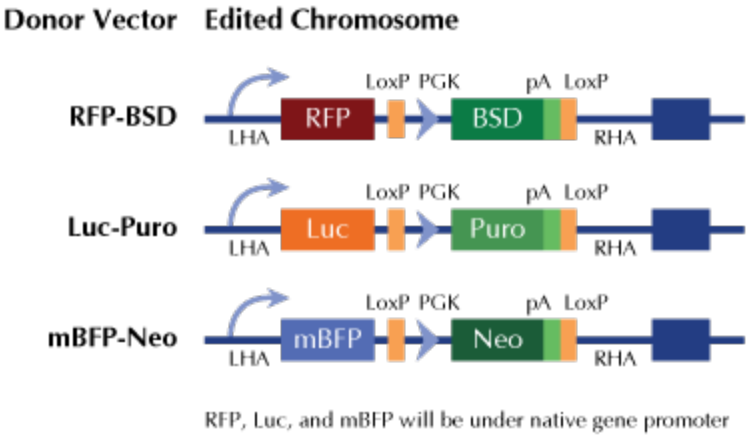
HFE Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	HFE
Locus ID:	3077
Components:	**KN217447G1**, HFE gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN217447G2**, HFE gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN217447RBD**, donor DNA containing left and right homologous arms and RFP-BSD functional cassette. **GE100003**, scramble sequence in pCas-Guide vector
Disclaimer:	These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.
RefSeq:	NM_000410, NM_001300749, NM_139002, NM_139003, NM_139004, NM_139005, NM_139006, NM_139007, NM_139008, NM_139009, NM_139010, NM_139011
UniProt ID:	Q30201
Synonyms:	HFE1; HH; HLA-H; MVCD7; TFQTL2
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]

View online »

Product images:



RFP, Luc, and mBFP will be under native gene promoter