

Product datasheet for KN202275RB

P4HB 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: Symbol: P4HB Locus ID: 5034

KN202275G1, P4HB gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN202275G2, P4HB gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN202275RBD, 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.

NM 000918 RefSeq:

UniProt ID: P07237

Synonyms: DSI; ERBA2L; GIT; P4Hbeta; PDI; PDIA1; PHDB; PO4DB; PO4HB; PROHB

Summary: This gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant

multifunctional enzyme that belongs to the protein disulfide isomerase family. When present

as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in preprocollagen. This enzyme is also a disulfide isomerase

containing two thioredoxin domains that catalyze the formation, breakage and

rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of Snitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride

transfer protein complex. [provided by RefSeq, Jul 2008]



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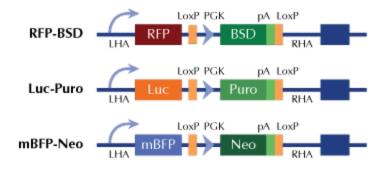
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Product images:

Donor Vector Edited Chromosome



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