

# Product datasheet for KN200466BN

## **HADHA Human Gene Knockout Kit (CRISPR)**

**Product data:** 

**Product Type:** Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

**Donor DNA:** mBFP-Neo Symbol: **HADHA** 3030 Locus ID:

KN200466G1, HADHA gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN200466G2, HADHA gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200466BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 000182

**UniProt ID:** P40939

Synonyms: ECHA; GBP; HADH; LCEH; LCHAD; MTPA; TP-ALPHA

This gene encodes the alpha subunit of the mitochondrial trifunctional protein, which **Summary:** 

> catalyzes the last three steps of mitochondrial beta-oxidation of long chain fatty acids. The mitochondrial membrane-bound heterocomplex is composed of four alpha and four beta subunits, with the alpha subunit catalyzing the 3-hydroxyacyl-CoA dehydrogenase and enoyl-CoA hydratase activities. Mutations in this gene result in trifunctional protein deficiency or LCHAD deficiency. The genes of the alpha and beta subunits of the mitochondrial trifunctional

protein are located adjacent to each other in the human genome in a head-to-head

orientation. [provided by RefSeg, Jul 2008]



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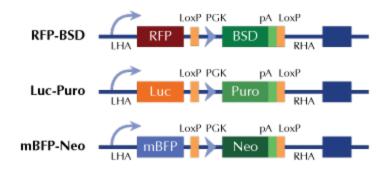
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# **Product images:**

### Donor Vector Edited Chromosome



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