

## Product datasheet for KN200723BN

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### **ALDH1A1 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: ALDH1A1

Locus ID: 216

**KN200723G1**, ALDH1A1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN200723G2, ALDH1A1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200723BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 000689

**UniProt ID:** P00352

Synonyms: ALDC; ALDH-E1; ALDH1; ALDH11; HEL-9; HEL-S-53e; HEL12; PUMB1; RALDH1

The protein encoded by this gene belongs to the aldehyde dehydrogenase family. Aldehyde **Summary:** 

> dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. There are two major aldehyde dehydrogenase isozymes in the liver, cytosolic and mitochondrial, which are encoded by distinct genes, and can be distinguished by their electrophoretic mobility, kinetic properties, and subcellular localization. This gene encodes the cytosolic isozyme. Studies in mice show that through its role in retinol

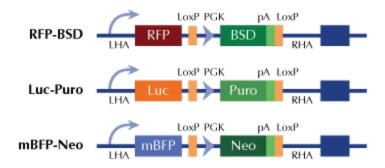
> metabolism, this gene may also be involved in the regulation of the metabolic responses to

high-fat diet. [provided by RefSeq, Mar 2011]



## **Product images:**

#### Donor Vector Edited Chromosome



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