

Product datasheet for KN200723LP

ALDH1A1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR) 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control Format: Donor DNA: Luciferase-Puro ALDH1A1 Symbol: 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) KN200723LPD, donor DNA containing left and right homologous arms and Luciferase-Puro 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 000689 **UniProt ID:** P00352 Synonyms: ALDC; ALDH-E1; ALDH1; ALDH11; HEL-9; HEL-S-53e; HEL12; PUMB1; RALDH1 Summary: The protein encoded by this gene belongs to the aldehyde dehydrogenase family. Aldehyde 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



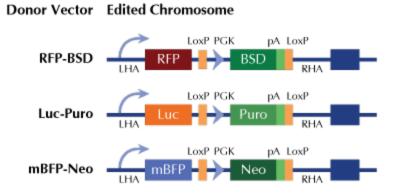
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high-fat diet. [provided by RefSeq, Mar 2011]

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Product images:



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

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