

## Product datasheet for KN209378LP

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### LDHA Human Gene Knockout Kit (CRISPR)

#### **Product data:**

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

**Format:** 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

**Donor DNA:** Luciferase-Puro

Symbol: LDHA Locus ID: 3939

**Components: KN209378G1**, LDHA gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN209378G2, LDHA gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN209378LPD, 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 001135239, NM 001165414, NM 001165415, NM 001165416, NM 005566, NR 028500

UniProt ID: P00338

Synonyms: GSD11; HEL-S-133P; LDHM; PIG19

**Summary:** The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate

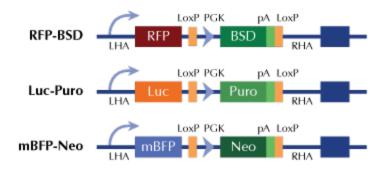
and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to exertional myoglobinuria. Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-

transcribed pseudogenes of this gene. [provided by RefSeq, Sep 2008]



# **Product images:**

### Donor Vector Edited Chromosome



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