

Product datasheet for KN201561BN

GALE 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

GALE Symbol: 2582 Locus ID:

KN201561G1, GALE gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN201561G2, GALE gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN201561BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

NM 000403, NM 001008216, NM 001127621 RefSeq:

UniProt ID: Q14376 Synonyms: SDR1E1

Summary: This gene encodes UDP-galactose-4-epimerase which catalyzes two distinct but analogous

> reactions: the epimerization of UDP-glucose to UDP-galactose, and the epimerization of UDP-N-acetylglucosamine to UDP-N-acetylgalactosamine. The bifunctional nature of the enzyme has the important metabolic consequence that mutant cells (or individuals) are dependent not only on exogenous galactose, but also on exogenous N-acetylgalactosamine as a

> necessary precursor for the synthesis of glycoproteins and glycolipids. Mutations in this gene

result in epimerase-deficiency galactosemia, also referred to as galactosemia type 3, a

disease characterized by liver damage, early-onset cataracts, deafness and cognitive disability, with symptoms ranging from mild ('peripheral' form) to severe ('generalized' form). Multiple alternatively spliced transcripts encoding the same protein have been identified. [provided by

RefSeq, Jul 2008]



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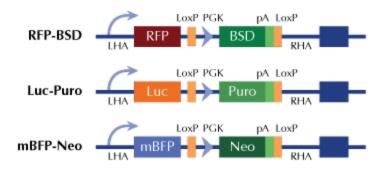
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Product images:

Donor Vector Edited Chromosome



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