

Product datasheet for KN221638RB

NDST1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA:RFP-BSESymbol:NDST1Locus ID:3340

Components: KN221638G1, NDST1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN221638G2, NDST1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN221638RBD, donor DNA containing left and right homologous arms and RFP-BSD

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: <u>NM 001301063</u>, <u>NM 001543</u>

UniProt ID: P52848

Synonyms: HSST; MRT46; NST1

Summary: This gene encodes a member of the heparan sulfate/heparin GlcNAc N-deacetylase/ N-

sulfotransferase family. The encoded enzyme is a type II transmembrane protein that resides

in the Golgi apparatus. The encoded protein catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate to nitrogen of glucosamine in heparan sulfate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]



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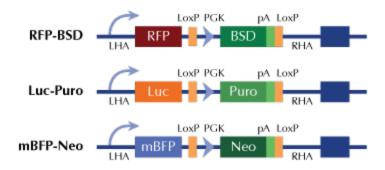
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Product images:

Donor Vector Edited Chromosome



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