

Product datasheet for KN220744RB

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RFXANK 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-BSD Symbol: RFXANK Locus ID: 8625

Components: KN220744G1, RFXANK gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN220744G2, RFXANK gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN220744RBD, 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: NM 001278727, NM 001278728, NM 003721, NM 134440, NM 001370233, NM 001370235,

NM 001370237, NM 001370238, NM 001370234, NM 001370236

UniProt ID: <u>014593</u>

Synonyms: ANKRA1; BLS; F14150_1; RFX-B

Summary: Major histocompatibility (MHC) class II molecules are transmembrane proteins that have a

central role in development and control of the immune system. The protein encoded by this gene, along with regulatory factor X-associated protein and regulatory factor-5, forms a complex that binds to the X box motif of certain MHC class II gene promoters and activates their transcription. Once bound to the promoter, this complex associates with the non-DNA-

binding factor MHC class II transactivator, which controls the cell type specificity and

inducibility of MHC class II gene expression. This protein contains ankyrin repeats involved in protein-protein interactions. Mutations in this gene have been linked to bare lymphocyte syndrome type II, complementation group B. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2013]



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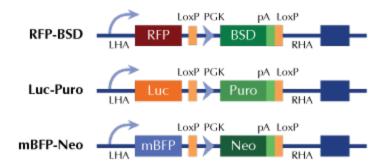
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Product images:

Donor Vector Edited Chromosome



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