

## Product datasheet for **KN220744**

### RFXANK Human Gene Knockout Kit (CRISPR)

#### Product data:

**Product Type:** Knockout Kits (CRISPR)  
**Format:** 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control  
**Donor DNA:** GFP-puro  
**Symbol:** RFXANK  
**Locus ID:** 8625  
**Components:** **KN220744G1**, RFXANK gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTCTGGATGAGGTCTTCTGC  
**KN220744G2**, RFXANK gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGACCCCTGCCTCAGAACTT  
**KN220744D**, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
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 CCATCCAGTC TATTAATTGT TGCCGGGAAG CTAGAGTAAG TAGTTGCGCA GTTAATAGTT TGCGCAACGT  
 TGTGCCATT GCTACAGCA TCGTGGTGC ACGCTCGTCG TTTGGTATGG CTTCAATCAG CTCCGTTCC CAACGATC  
**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:**

[O14593](#)

**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]

Product images:

