

## Product datasheet for **KN221789RB**

### IL28 Receptor alpha (IFNLR1) 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:** IL28 Receptor alpha  
**Locus ID:** 163702  
**Components:** **KN221789G1**, IL28 Receptor alpha gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCGCTCCAGGTAAGGGCGCG  
**KN221789G2**, IL28 Receptor alpha gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TACCTGGAGCGGCCTGCAGC  
**KN221789RBD**, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.

Homologous arm and RFP-BSD sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **RFP-BSD in green**; **Right arm in violet**

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GATCGTTGGG AACCGGAGCT GAATGAAGCC ATACCAAACG ACGAGCGTGA CACCACGATG CCTGTAGCAA
TGGCAACAAC GTTGCACAAA CTATTAAGCT GCGAACTACT TACTCTAGCT TCCCAGCAAC AATTAATAGA
CTGGATGGAG GCGGATAAAG TTGCAGGACC ACTTCTGCGC TCGGCCCTTC CGGCTGGCTG GTTTATTGCT
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TTTATGCTTC CGGCTCGTAT GTTGTGTGGA ATTGTGAGCG GATAACAATT TCACACAGGA AACAGCTATG
ACCATGATTA CGCCAAGCTC CTTCTCTTTC CAGCCCTTCC TCTTCTACTG ACTGACTGAC TGGAAGACAC
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GCGGCCAACT TACTTCTGAC AACGATCGGA GGACCGAAG AGCTAACCGC TTTTTTGAC AACATGGGGG
ATCATGTAAC TCGCCTT

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**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\\_170743](#), [NM\\_173064](#), [NM\\_173065](#)

**UniProt ID:**

[Q8IU57](#)

**Synonyms:** CRF2/12; IFNLR; IL-28R1; IL28RA; LICR2

**Summary:** The protein encoded by this gene belongs to the class II cytokine receptor family. This protein forms a receptor complex with interleukin 10 receptor, beta (IL10RB). The receptor complex has been shown to interact with three closely related cytokines, including interleukin 28A (IL28A), interleukin 28B (IL28B), and interleukin 29 (IL29). The expression of all three cytokines can be induced by viral infection. The cells overexpressing this protein have been found to have enhanced responses to IL28A and IL29, but decreased response to IL28B. Three alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

**Product images:**

