

## Product datasheet for KN214928BN

#### OriGene Technologies, Inc.

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## IGF1 Receptor (IGF1R) 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

Symbol: IGF1 Receptor

**Locus ID:** 3480

**Components: KN214928G1**, IGF1 Receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN214928G2**, IGF1 Receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN214928BND**, donor DNA containing left and right homologous arms and mBFP-Neo

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 000875</u>, <u>NM 001291858</u>

UniProt ID: <u>P08069</u>

Synonyms: CD221; IGFIR; IGFR; JTK13

**Summary:** This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase

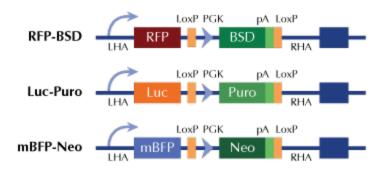
activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found

for this gene. [provided by RefSeq, May 2014]



# **Product images:**

#### Donor Vector Edited Chromosome



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