

## Product datasheet for **KN220780RB**

### NF-kB p65 (RELA) 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:	NF-kB p65
Locus ID:	5970
Components:	<p><b>KN220780G1</b>, NF-kB p65 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCCGCGGGGTGGCATCGCCG</p> <p><b>KN220780G2</b>, NF-kB p65 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGGCCCGCCGCGCTGTGGC</p> <p><b>KN220780RBD</b>, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p>

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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CCGCATCTAG ATTGGGGTGG GTAGGACATT TTAACGTGCT TCTGAGACAG CCACCACCGA AAGGCACCTT
TAGCGGTTAG GAAACCCGCG CGGAGTCAA CCACCCGGCC TCTGCGGAGC AGAAGGCCCG GTCGGGCTTT
TCCTGCGCG GGGCGGGCGG CCGCAGCCA GTAGCCCTGG CTTTGTCCA GACCCGGCCC AGAGTGACAT
CACAAACTC CGCCGATCGG CGGGAGGGGG CCCTGAAATC CCCTAAAAAC AAAGTGAGTA ATCGGCGGAC
CCACCTCCA GGC GGCGGCGG GACCCGGGA GCTAGCCGAG CCACCCGGCA CGCCAGCCTC TTCGTCTCTG
GCGAGGCGCG CACTTGGCCC CGACCCCGG CAGCGGCTGT GCGTGCAGCC TCTTCGTCTC CCGCGCGGCG
TGCACTTGCT CCCGCCCCCT GCGCCGGGCG GCGGCGGGC AGCGCGCAGG CGCGGCCGGA TTCCGGGCAG
TGACGCGACG GCGGGCCGCG CGGCGCATTT CCGCCTCTGG CGAATGGCTC GTCTGTAGTG CACGCCGCGG
GCCAGCTGC GACCCCGGCC CCGCCCCCG GACCCCGGCC GCTTTCGCCC CCTTCTGCG CCGACGGGCG
CTGCGCAGGG AGCGGTCGGC CTGCCGGATG GTGGCGCGGG GCGGGGAGG CGGGGAGGG TCTGACTCAG
TTTCCCTCT GGGTGGAGGG GGTGGCCCTT GACTCAGCAT CCTCCCTGGG TGGGGGAGCA GAGGGAACCT
TGACTCAGTT TCCCTCCACA CCGTCCATGG GGGCAGCTCT GGCTTCGTTT CCCTATTAGG GGAGAACGCA
TCTGATTCAG TTTCTCTCT GGAGGGAGGT GGGGCGTGCC CTCCTCAAT TTTCTTAAG AAAGTACAAC
AGGCCCTGAT TCAGTTCCC TCTGGAGAAG AAGGATTCTT TACCCCGTTT TCCCTCAAGA AGCAGGTGTT
TCTGGTTCCT TTCTCCACC CCTTAGTTTC ACCGAGGTT CTAGGGAGCA GGTCTGACT CAGTTCCTCT
GGGAGGGAGC CTGGCTTCT CTCTCCGTGG AGAGCAGATT CCTCCTTG TG AGAATGGGCA TTGGGTGTGT
GCTGACCCTG ATCTCCCTCC CCTTTCAGAA CTGTTCCCC TCATCTTCCC GGCAGGTAAG TGGCCCCCGG
GGCGGTCCGG
```

**GE100003**, scramble sequence in pCas-Guide vector



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**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\\_001145138](#), [NM\\_001243984](#), [NM\\_001243985](#), [NM\\_021975](#)

**UniProt ID:** [Q04206](#)

**Synonyms:** NFKB3; p65

**Summary:** NF-kappa-B is a ubiquitous transcription factor involved in several biological processes. It is held in the cytoplasm in an inactive state by specific inhibitors. Upon degradation of the inhibitor, NF-kappa-B moves to the nucleus and activates transcription of specific genes. NF-kappa-B is composed of NFKB1 or NFKB2 bound to either REL, RELA, or RELB. The most abundant form of NF-kappa-B is NFKB1 complexed with the product of this gene, RELA. Four transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

### Product images:

