

## Product datasheet for KN224742RB

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### **POLE 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: POLE
Locus ID: 5426

**Components: KN224742G1**, POLE gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN224742G2, POLE gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN224742RBD, 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: <u>NM 006231</u>

UniProt ID: Q07864

Synonyms: CRCS12; FILS; POLE1

**Summary:** This gene encodes the catalytic subunit of DNA polymerase epsilon. The enzyme is involved

in DNA repair and chromosomal DNA replication. Mutations in this gene have been

associated with colorectal cancer 12 and facial dysmorphism, immunodeficiency, livedo, and

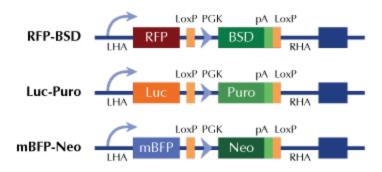
short stature. [provided by RefSeq, Sep 2013]





# **Product images:**

#### Donor Vector Edited Chromosome



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