

Product datasheet for KN216630RB

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

DNA PKcs (PRKDC) 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: DNA PKcs

Locus ID: 5591

Components: KN216630G1, DNA PKcs gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN216630G2, DNA PKcs gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN216630RBD**, 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 001081640</u>, <u>NM 006904</u>

UniProt ID: <u>P78527</u>

Synonyms: DNA-PKcs; DNAPK; DNPK1; HYRC; HYRC1; IMD26; p350; XRCC7

Summary: This gene encodes the catalytic subunit of the DNA-dependent protein kinase (DNA-PK). It

functions with the Ku70/Ku80 heterodimer protein in DNA double strand break repair and recombination. The protein encoded is a member of the PI3/PI4-kinase family.[provided by

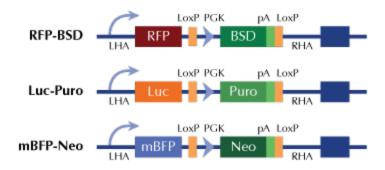
RefSeq, Jul 2010]





Product images:

Donor Vector Edited Chromosome



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