

# Product datasheet for KN201645RB

## PARK7 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:** Symbol: PARK7 Locus ID: 11315

**KN201645G1**, PARK7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN201645G2, PARK7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN201645RBD, 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: NM 001123377, NM 007262

**UniProt ID:** Q99497

Synonyms: DJ-1; DJ1; HEL-S-67p

Summary: The product of this gene belongs to the peptidase C56 family of proteins. It acts as a positive

> regulator of androgen receptor-dependent transcription. It may also function as a redoxsensitive chaperone, as a sensor for oxidative stress, and it apparently protects neurons against oxidative stress and cell death. Defects in this gene are the cause of autosomal

recessive early-onset Parkinson disease 7. Two transcript variants encoding the same protein

have been identified for this gene. [provided by RefSeq, Jul 2008]



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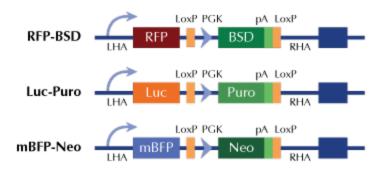
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# **Product images:**

### Donor Vector Edited Chromosome



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