

Product datasheet for KN216186RB

OriGene Technologies, Inc.

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Parkin (PARK2) 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-BSDSymbol:ParkinLocus ID:5071

Components: KN216186G1, Parkin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN216186G2, Parkin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN216186RBD, 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 004562</u>, <u>NM 013987</u>, <u>NM 013988</u>

UniProt ID: <u>060260</u>

Synonyms: AR-JP; LPRS2; PDJ; PRKN

Summary: The precise function of this gene is unknown; however, the encoded protein is a component

of a multiprotein E3 ubiquitin ligase complex that mediates the targeting of substrate

proteins for proteasomal degradation. Mutations in this gene are known to cause Parkinson disease and autosomal recessive juvenile Parkinson disease. Alternative splicing of this gene produces multiple transcript variants encoding distinct isoforms. Additional splice variants of this gene have been described but currently lack transcript support. [provided by RefSeq, Jul

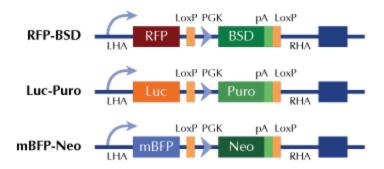
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Product images:

Donor Vector Edited Chromosome



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