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Product datasheet for KN206970

PINK1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control

Donor DNA: GFP-puro

Symbol: PINK1

Locus ID: 65018

Components: **KN206970G1**, PINK1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCGGCCGGGCCTACGGCTTG
KN206970G2, PINK1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGCGCTGCTGCTGCGCTTCA
KN206970D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.
Homologous arm and GFP-puro sequences:
pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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AGCTCCGGTT CCCAACGATC

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.

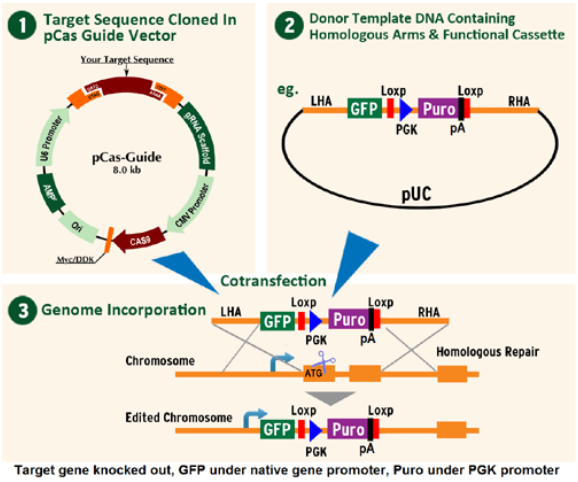
RefSeq: NM_032409

UniProt ID: Q9BXM7

Synonyms: BRPK; PARK6

Summary: This gene encodes a serine/threonine protein kinase that localizes to mitochondria. It is thought to protect cells from stress-induced mitochondrial dysfunction. Mutations in this gene cause one form of autosomal recessive early-onset Parkinson disease. [provided by RefSeq, Jul 2008]

Product images:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter