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Product datasheet for KN216373

LRRK2 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: LRRK2

Locus ID: 120892

Components:

KN216373G1, LRRK2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGAAACGCTGGTCCAAATCC

KN216373G2, LRRK2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGCTGTCAGGGGTGCGAAG

KN216373D, 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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GATCATGTAA CTCGCCTT

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.

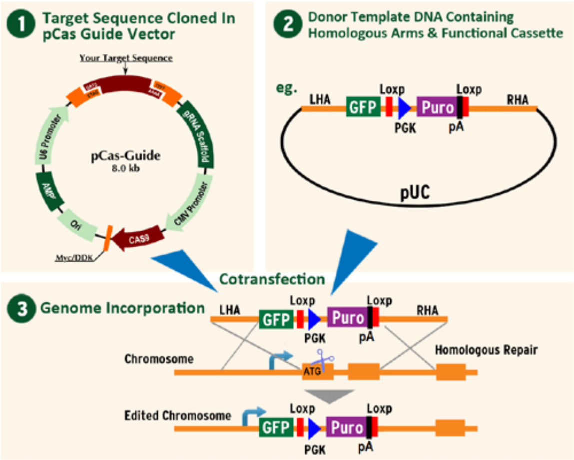
RefSeq: NM_198578

UniProt ID: Q5S007

Synonyms: AURA17; DARDARIN; PARK8; RIPK7; ROCO2

Summary: This gene is a member of the leucine-rich repeat kinase family and encodes a protein with an ankryin repeat region, a leucine-rich repeat (LRR) domain, a kinase domain, a DFG-like motif, a RAS domain, a GTPase domain, a MLK-like domain, and a WD40 domain. The protein is present largely in the cytoplasm but also associates with the mitochondrial outer membrane. Mutations in this gene have been associated with Parkinson disease-8. [provided by RefSeq, Jul 2008]

Product images:



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