

Product datasheet for KN203330LP

OriGene Technologies, Inc.

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Peroxiredoxin 4 (PRDX4) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro Symbol: Peroxiredoxin 4

Locus ID: 10549

Components: KN203330G1, Peroxiredoxin 4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN203330G2, Peroxiredoxin 4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN203330LPD**, donor DNA containing left and right homologous arms and Luciferase-Puro

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 006406

 UniProt ID:
 Q13162

Synonyms: AOE37-2; AOE372; HEL-S-97n; PRX-4

Summary: The protein encoded by this gene is an antioxidant enzyme and belongs to the peroxiredoxin

family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB.

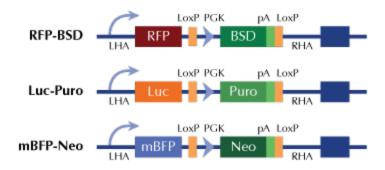
[provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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