

Product datasheet for KN205072BN

OriGene Technologies, Inc.

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Peroxiredoxin 1 (PRDX1) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo

Symbol: Peroxiredoxin 1

Locus ID: 5052

Components: KN205072G1, Peroxiredoxin 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN205072G2, Peroxiredoxin 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN205072BND**, donor DNA containing left and right homologous arms and mBFP-Neo

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 001202431, NM 002574, NM 181696, NM 181697</u>

UniProt ID: Q06830

Synonyms: MSP23; NKEF-A; NKEFA; PAG; PAGB; PRX1; PRX1; TDPX2

Summary: This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which

reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Four transcript variants encoding the same protein have been identified for this

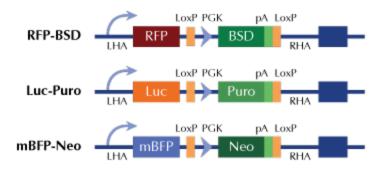
gene. [provided by RefSeq, Jan 2011]





Product images:

Donor Vector Edited Chromosome



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