

Product datasheet for KN207220LP

OriGene Technologies, Inc.

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PARN 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: PARN Locus ID: 5073

Components: KN207220G1, PARN gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN207220G2, PARN gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN207220LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 001134477, NM 001242992, NM 002582</u>

UniProt ID: <u>095453</u>

Synonyms: DAN; DKCB6; PFBMFT4

Summary: The protein encoded by this gene is a 3'-exoribonuclease, with similarity to the RNase D

family of 3'-exonucleases. It prefers poly(A) as the substrate, hence, efficiently degrades poly(A) tails of mRNAs. Exonucleolytic degradation of the poly(A) tail is often the first step in the decay of eukaryotic mRNAs. This protein is also involved in silencing of certain maternal mRNAs during oocyte maturation and early embryonic development, as well as in nonsense-mediated decay (NMD) of mRNAs that contain premature stop codons. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by

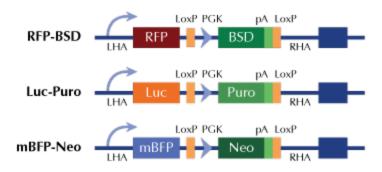
RefSeq, Aug 2008]





Product images:

Donor Vector Edited Chromosome



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