

Product datasheet for KN219451LP

OriGene Technologies, Inc.

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DGCR8 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: DGCR8 Locus ID: 54487

Components: KN219451G1, DGCR8 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN219451G2, DGCR8 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN219451LPD, 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: <u>NM 001190326</u>, <u>NM 022720</u>

UniProt ID: Q8WYQ5

Synonyms: C22orf12; DGCRK6; Gy1; pasha

Summary: This gene encodes a subunit of the microprocessor complex which mediates the biogenesis

of microRNAs from the primary microRNA transcript. The encoded protein is a double-

stranded RNA binding protein that functions as the non-catalytic subunit of the

microprocessor complex. This protein is required for binding the double-stranded RNA

substrate and facilitates cleavage of the RNA by the ribonuclease III protein, Drosha. Alternate

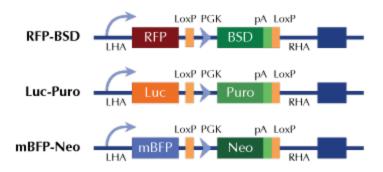
splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]





Product images:

Donor Vector Edited Chromosome



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