

## Product datasheet for **KN219451**

### DGCR8 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:** DGCR8  
**Locus ID:** 54487  
**Components:** **KN219451G1**, DGCR8 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCACGGGGCAGCGCTTGAA  
**KN219451G2**, DGCR8 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCGCTCCCGTGTGGGCCCGC  
**KN219451D**, 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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**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\\_001190326](#), [NM\\_022720](#)

**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:

