

## Product datasheet for **KN208363LP**

### Dnmt2 (TRDMT1) 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:** Dnmt2  
**Locus ID:** 1787  
**Components:** **KN208363G1**, Dnmt2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)  
**KN208363G2**, Dnmt2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)  
**KN208363LPD**, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.

Homologous arm and Luciferase-Puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **Luciferase-Puro in green**; **Right arm in violet**

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GTATGGCTTC ATTCAGCTCC GGTCCCAAC GATC

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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\\_004412](#), [NM\\_176081](#), [NM\\_176083](#), [NM\\_176084](#), [NM\\_176085](#), [NM\\_176086](#), [NM\\_001321006](#), [NM\\_001321007](#), [NM\\_001351219](#), [NM\\_001351220](#), [NM\\_001351221](#), [NM\\_001351222](#), [NM\\_001351223](#)

**UniProt ID:**

[O14717](#)

**Synonyms:** DMNT2; DNMT2; MHSAIIP; PUMET; RNMT1

**Summary:** This gene encodes a protein responsible for the methylation of aspartic acid transfer RNA, specifically at the cytosine-38 residue in the anticodon loop. This enzyme also possesses residual DNA-(cytosine-C5) methyltransferase activity. While similar in sequence and structure to DNA cytosine methyltransferases, this gene is distinct and highly conserved in its function among taxa. [provided by RefSeq, Jun 2010]

**Product images:**

