

## Product datasheet for **KN315860**

### Slc11a2 Mouse 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:** Slc11a2  
**Locus ID:** 18174  
**Components:** **KN315860G1**, Slc11a2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGAGCTGTAAGTTACCGTC  
**KN315860G2**, Slc11a2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCCCATTCCCATGTAGATAA  
**KN315860D**, 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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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

**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\\_001146161](#), [NM\\_008732](#), [NM\\_001356952](#)

**UniProt ID:**

[P49282](#)

**Synonyms:**

DCT1; DMT1; mk; Nramp2; van

**Summary:**

May serve to import iron into the mitochondria (By similarity). Important in metal transport, in particular iron. Involved in apical iron uptake into duodenal enterocytes. Involved in iron transport from acidified endosomes into the cytoplasm of erythroid precursor cells. May play an important role in hepatic iron accumulation and tissue iron distribution.[UniProtKB/Swiss-Prot Function]

Product images:

