

## Product datasheet for **KN300640**

### Abcg2 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:** Abcg2  
**Locus ID:** 26357  
**Components:** **KN300640G1**, Abcg2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCCGTTAGGACGCTCGAGA  
**KN300640G2**, Abcg2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCGACATTGGTACTAACAG  
**KN300640D**, 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\\_011920](#), [NM\\_001355477](#)

**UniProt ID:**

[Q7TMS5](#)

**Synonyms:**

ABC15; ABCP; A1428558; BCRP; Bcrp1; MXR; MXR1

**Summary:**

The membrane-associated protein encoded by this gene is included in the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the White subfamily. Alternatively referred to as a breast cancer resistance protein, the human protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. This protein likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. [provided by RefSeq, Jul 2008]

Product images:

