

Product datasheet for KN300640BN

Abcg2 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo

Symbol: Abcg2 Locus ID: 26357

KN300640G1, Abcg2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN300640G2, Abcg2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN300640BND, donor DNA containing left and right homologous arms and mBFP-Neo

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: NM 011920, NM 001355477

UniProt ID: Q7TMS5

Synonyms: ABC15; ABCP; AI428558; 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]



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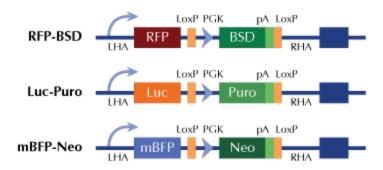
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Product images:

Donor Vector Edited Chromosome



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