

## Product datasheet for **KN205640LP**

### ABCG2 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:	ABCG2
Locus ID:	9429
Components:	<b>KN205640G1</b> , ABCG2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN205640G2</b> , ABCG2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN205640LPD</b> , donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette. <b>GE100003</b> , 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:	<a href="#">NM_001257386</a> , <a href="#">NM_004827</a> , <a href="#">NM_001348985</a> , <a href="#">NM_001348986</a> , <a href="#">NM_001348987</a> , <a href="#">NM_001348988</a> , <a href="#">NM_001348989</a>
UniProt ID:	<a href="#">Q9UNQ0</a>
Synonyms:	ABC15; ABCP; BCRP; BCRP1; BMDP; CD338; CDw338; EST157481; GOUT1; MRX; MXR; MXR1; UAQTL1
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, this protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. It likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. Significant expression of this protein has been observed in the placenta, which may suggest a potential role for this molecule in placenta tissue. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]



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## Product images:

