

## Product datasheet for **KN206885BN**

### ABCD1 Human 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:	ABCD1
Locus ID:	215
Components:	<b>KN206885G1</b> , ABCD1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN206885G2</b> , ABCD1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN206885BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
RefSeq:	<a href="#">NM_000033</a>
UniProt ID:	<a href="#">P33897</a>
Synonyms:	ABC42; ALD; ALDP; AMN
Summary:	<p>The protein encoded by this gene is a member of 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 ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. This peroxisomal membrane protein is likely involved in the peroxisomal transport or catabolism of very long chain fatty acids. Defects in this gene have been identified as the underlying cause of adrenoleukodystrophy, an X-chromosome recessively inherited demyelinating disorder of the nervous system. [provided by RefSeq, Jul 2008]</p>


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## Product images:

