

Product datasheet for KN304521RB

Dgat2 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: Symbol: Dgat2 67800 Locus ID:

KN304521G1, Dgat2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN304521G2, Dgat2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN304521RBD, donor DNA containing left and right homologous arms and RFP-BSD

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 026384 **UniProt ID:** Q9DCV3

Synonyms: 0610010B06Rik; ARAT; DGAT-2

Summary: Essential acyltransferase that catalyzes the terminal and only committed step in

> triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates. Required for synthesis and storage of intracellular triglycerides. Probably plays a central role in cytosolic

lipid accumulation. In liver, is primarily responsible for incorporating endogenously

synthesized fatty acids into triglycerides. Functions also as an acyl-CoA retinol acyltransferase

(ARAT) (By similarity).[UniProtKB/Swiss-Prot Function]



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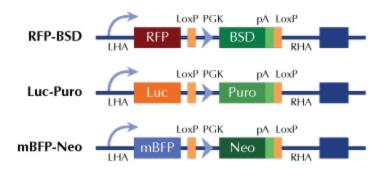
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Product images:

Donor Vector Edited Chromosome



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