Product datasheet for KN200395RB

Apolipoprotein E (APOE) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	Apolipoprotein E
Locus ID:	348
Components:	**KN200395G1**, Apolipoprotein E gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN200395G2**, Apolipoprotein E gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN200395RBD**, 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_000041, NM_001302688, NM_001302689, NM_001302690, NM_001302691
UniProt ID:	P02649
Synonyms:	AD2; APO-E; LDLCQ5; LPG
Summary:	The protein encoded by this gene is a major apoprotein of the chylomicron. It binds to a specific liver and peripheral cell receptor, and is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. This gene maps to chromosome 19 in a cluster with the related apolipoprotein C1 and C2 genes. Mutations in this gene result in familial dysbetalipoproteinemia, or type III hyperlipoproteinemia (HLP III), in which increased plasma cholesterol and triglycerides are the consequence of impaired clearance of chylomicron and VLDL remnants. [provided by RefSeq, Jun 2016]

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Product images:

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