

## Product datasheet for KN200395LP

#### OriGene Technologies, Inc.

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### **Apolipoprotein E (APOE) 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: 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) **KN200395LPD**, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

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

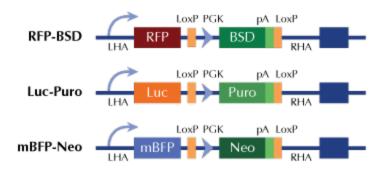
VLDL remnants. [provided by RefSeq, Jun 2016]





# **Product images:**

### Donor Vector Edited Chromosome



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