

Product datasheet for KN316688LP

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Sptlc3 Mouse 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: Sptlc3
Locus ID: 228677

Components: KN316688G1, Sptlc3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN316688G2, Sptlc3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN316688LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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: <u>NM 175467</u>, <u>NM 001356507</u>

UniProt ID: Q8BG54

Synonyms: C130053K05Rik

Summary: Serine palmitoyltransferase (SPT). The heterodimer formed with LCB1/SPTLC1 constitutes the

catalytic core. The composition of the serine palmitoyltransferase (SPT) complex determines

the substrate preference. SPT complexes containing SPTLC3 generate shorter chain sphingoid bases compared to complexes containing SPTLC2. The SPTLC1-SPTLC3-SPTSSA isozyme uses C12-CoA, C14-CoA and C16-CoA as substrates, with a slight preference for C14-CoA. On the other hand, the SPTLC1-SPTLC3-SPTSSB has the ability to use a broader range of

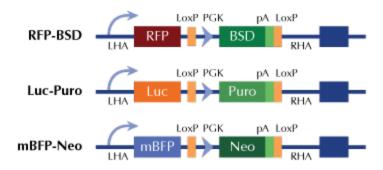
acyl-CoAs without apparent preference.[UniProtKB/Swiss-Prot Function]





Product images:

Donor Vector Edited Chromosome



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