

## Product datasheet for **KN316688RB**

### Sptlc3 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:	RFP-BSD
Symbol:	Sptlc3
Locus ID:	228677
Components:	<b>KN316688G1</b> , Sptlc3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN316688G2</b> , Sptlc3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN316688RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , 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:	<a href="#">NM_175467</a> , <a href="#">NM_001356507</a>
UniProt ID:	<a href="#">Q8BG54</a>
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]



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## Product images:

