Product datasheet for KN304817RB

Drosha 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:	Drosha
Locus ID:	14000
Components:	**KN304817G1**, Drosha gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN304817G2**, Drosha gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN304817RBD**, 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_001130149, NM_026799
UniProt ID:	Q5HZJ0
Synonyms:	1110013A17Rik; AI874853; Etohi2; Rn3; Rnasen
Summary:	Ribonuclease III double-stranded (ds) RNA-specific endoribonuclease that is involved in the initial step of microRNA (miRNA) biogenesis. Component of the microprocessor complex that is required to process primary miRNA transcripts (pri-miRNAs) to release precursor miRNA (pre-miRNA) in the nucleus. Within the microprocessor complex, DROSHA cleaves the 3' and 5' strands of a stem-loop in pri-miRNAs (processing center 11 bp from the dsRNA-ssRNA junction) to release hairpin-shaped pre-miRNAs that are subsequently cut by the cytoplasmic DICER to generate mature miRNAs. Involved also in pre-rRNA processing. Cleaves double-strand RNA and does not cleave single-strand RNA. Involved in the formation of GW bodies. [UniProtKB/Swiss-Prot Function]

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Product images:

Donor Vector   Edited Chromosome

RFP-BSD

Luc-Puro

mBFP-Neo

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