

Product datasheet for KN304817BN

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Drosha Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo Symbol: Drosha 14000 Locus ID:

KN304817G1, Drosha gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN304817G2, Drosha gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN304817BND, donor DNA containing left and right homologous arms and mBFP-Neo

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.

NM 001130149, NM 026799 RefSeq:

UniProt ID: Q5HZJ0

Synonyms: 1110013A17Rik; Al874853; 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 doublestrand RNA and does not cleave single-strand RNA. Involved in the formation of GW bodies.

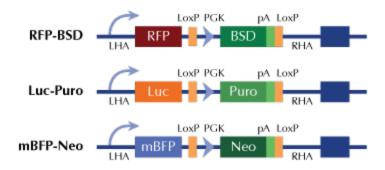
[UniProtKB/Swiss-Prot Function]





Product images:

Donor Vector Edited Chromosome



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