Product datasheet for KN213916RB

DROSHA Human 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:	29102
Components:	**KN213916G1**, DROSHA gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN213916G2**, DROSHA gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN213916RBD**, 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_001100412, NM_013235
UniProt ID:	Q9NRR4
Synonyms:	ETOHI2; HSA242976; RANSE3L; RN3; RNASE3L; RNASEN
Summary:	This gene encodes a ribonuclease (RNase) III double-stranded RNA-specific ribonuclease and subunit of the microprocessor protein complex, which catalyzes the initial processing step of microRNA (miRNA) synthesis. The encoded protein cleaves the stem loop structure from the primary microRNA (pri-miRNA) in the nucleus, yielding the precursor miRNA (pre-miRNA), which is then exported to the cytoplasm for further processing. In a human cell line lacking a functional copy of this gene, canonical miRNA synthesis is reduced. Somatic mutations in this gene have been observed in human patients with kidney cancer. [provided by RefSeq, Sep 2016]

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Product images:

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