

## Product datasheet for **KN200142BN**

### WDR79 (WRAP53) Human 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:	WDR79
Locus ID:	55135
Components:	<b>KN200142G1</b> , WDR79 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN200142G2</b> , WDR79 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN200142BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo 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:** [NM\\_001143990](#), [NM\\_001143991](#), [NM\\_001143992](#), [NM\\_018081](#)

**UniProt ID:** [Q9BUR4](#)

**Synonyms:** DKCB3; TCAB1; WDR79

**Summary:** This gene encodes an essential component of the telomerase holoenzyme complex, a ribonucleoprotein complex required for telomere synthesis. This protein is enriched in Cajal bodies, nuclear sites of RNP processing that are important for telomerase function. It interacts with dyskerin, TERT and TERC, other components of active telomerase, and with small Cajal body RNAs (scaRNAs), which are involved in modifying splicing RNAs. This mRNA also functions as a p53 antisense transcript, that regulates endogenous p53 mRNA levels and further induction of p53 protein by targeting the 5' untranslated region of p53 mRNA. Alternatively spliced transcript variants which differ only in the 5' UTR have been found for this gene. [provided by RefSeq, Mar 2011]



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## Product images:

