

## Product datasheet for **KN200142**

### WDR79 (WRAP53) Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	WDR79
Locus ID:	55135
Components:	<p><b>KN200142G1</b>, WDR79 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTCCGCATTTTTATTCATCG</p> <p><b>KN200142G2</b>, WDR79 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGACTGCTGTCCTTCAGACC</p> <p><b>KN200142D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> <p>Homologous arm and GFP-puro sequences: pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet</p> <pre> GTTGTATTCC TGAGTGCCTA TATCAGTGCT GGGTAGCAAG TAAGAGCTCG ATAATAAATA TTTTTTGAAT GAGGGAGACA GGTCTGAAGC CTGGAGAATG AGATGCAGAA GAGGTGCAAG ACCTGCTGCG CCCTCTGCAG GCGGCGGGGG GCGGTGTCAG GTGCTTTAAG AATTACCGCG GGACTCGGTA GGGGGAGCGT AGGCGCTTCT CGCAAGATA GAAGCGTTCA GACTACAAC CCCAGCAGCC ACGAGGAGCC CTAGGGCTTG ATGGGAACGG GAAACCTTCT AACCTTTCAC GTCCC GGCTC CGCGGGTTCC GTGGGTCGCC CGCGAAATCT GATCCGGGAT GCGGCGGGCC AATCGGAAGG TGGACCGAAA TCCC GCGACA GCAAGAGGCC CGTAGCGACC CGCGGTGCTA AGGAACACAG TGCTTTCAA AGAATTGGCG TCCGCTGTTC GCCTCTCCTC CCGGGAGTCT TCTGCCTACT CCCAGAAGAG GAGGGAAGCA CAGGTGGGTT TCTTTAGCTC TCGCTCGGAT CCCTGAGAAC TTCGAAGCCA TCCTGGCTGA GGCTAATCTC CGCTGTGCTT CCTCTGCAGT CCGCCTCCCG AAAGGGGGGA TCCGCCCCGG TTGTCCCCAG ATCCTGTGGC TGGCTCAGCT GTGTCCCAGG AGCTACGGGA GGGGGACCCA GTTTCTCTCT CCTCTCCCT GGAACAGAG TTTGGTTCCC CTAGTGAGTT GAGTCTCGA ATCGAGGAGC AAGAACTTTC TGAAAATACA AGCCTTCTG CAGAAGAAGC AAACGGGAGC CTTTCTGAAG AAGAAGCGAA CGGGCCAGAG TTGGGGTCTG GAAAAGCCAT GGAAGATACC TCTGGGGAAC CCGCTGCAGA GGACGAGGGA GACACGTAAG TGGTGATGCG AGTGGAGTGT GGAGTCTGGG GAGATGAAGT GTGAGGTGCGA TCTGTCTCTT GGTCTGAGA CCCCTTCTC CAGGCCTCTG CCCCTTTGCG TTGGCGACCC AGGTTTATTG TCCCCATCT TCCTTTCAGC GCTTGGAACT ACAGCTTCTC CCAGCTGCCT CGATTTCTCA GTGGTTCTCG GTCAGAGTTC AGCACCCAAC CTGAGAACTT CTTGAAAGGC TGTAAGTGGT AAGGATAACA ACGGGGCAGG GAGCTGACCA CCCCAGAGT TTTCACTGTA </pre> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>



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**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]

### Product images:

