

Product datasheet for **RC200142**

WDR79 (WRAP53) (NM_018081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR79 (WRAP53) (NM_018081) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR79
Synonyms:	DKCB3; TCAB1; WDR79
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200142 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGACTTTGGAGACTCAACCGTTAGCTCCGGACTGCTGTCTTCAGACCAGGACCCAGCTCCAGCCC
 ATCCTTCTCCCCACGCTTCCCCGATGAATAAAAAATGCGGACTCTGAACTGATGCCACCGCTCCCCGAAAG
 GGGGATCCGCCCGGTTGTCCCAAGTCTGTGGCTGGCTCAGCTGTGTCCAGGAGCTACGGGAGGGG
 GACCCAGTTTCTCTCCACTCCCTGGAAACAGAGTTTGGTTCCCTAGTGAGTTGAGTCTCGAATCG
 AGGAGCAAGAAGTTTCTGAAAATAACAAGCTTCTGCAGAAGAAGCAAACGGGAGCCTTTCTGAAGAAGA
 AGCGAACGGGCCAGAGTTGGGTCTGAAAAGCCATGGAAGATACCTCTGGGGAACCCGCTGCAGAGGAC
 GAGGGAGACCCGCTTGGAACTACAGTCTCTCCAGCTGCCTCGATTTCTCAGTGGTTCTGGTCAGAGT
 TCAGCACCAACCTGAGAACTTCTTAAAGGCTGTAAGTGGCTCCTGACGGTCTGTCATTTGACCAA
 TAGTGCTGATAACATCTTGCGAATTTATAACCTGCCCCAGAGCTGTACCATGAGGGGAGCAGGTGGAA
 TATGCAGAAATGGTCCCTGTCTTGAATGGTGAAGGTGATACCATCTATGATTACTGCTGGTATTCTC
 TGATGTCTCAGCCCAGCCAGACACCTCTACGTGGCCAGCAGCAGCCGGGAGAACCCGATTTCATATCTG
 GGACGATTCACTGGAGAGCTCCGGGCTTCTTTTCGCGCTACAACACCTGGATGAGCTGACGGCAGCC
 CATTTCGCTCTGCTTCTCCCCGGATGGCTCCAGCTTCTGTGGCTTCAACCGGACTGTGCGTGTTTTT
 CCACGGCCCGGCTGGCCGAGACTGCGAGGTCCGAGCCACATTTGCAAAAAAGCAGGGCCAGAGCGGCAT
 CATCTCTGCATAGCCTTCAAGCCAGCCAGCCCTCTATGCCTGTGGCTCCTACGGCCGCTCCCTGGGT
 CTGTATGCCTGGGATGATGGCTCCCTCTCGCTTGTGGGAGGGACCAAGGGGGATCACCCACCTCT
 GCTTTCTCCCGATGGCAACCGCTTCTTCTCAGGAGCCGCAAGGATGCTGAGCTCCTGTCTGGGATCT
 CCGGCAGTCTGGTTACCCACTGTGGTCCCTGGTTCGAGAGGTGACCACCAATCAGCGCATCTACTTCGAT
 CTGGACCCGACCGGCAGTTCTAGTGAGTGGCAGCAGCAGCGGGGCTGTCTCTGTGTGGACACGGACG
 GGCTGGCAATGATGGGAAGCCGGAGCCGTTGAGTTTTCTGCCCAAGGACTGCACCAATGGCGT
 GAGCTGCACCCTAGCCTGCCTCTCTGGCCACTGCCTCCGGTACGCGTGTGTTCTGAGCCACAGAG
 AGTGGGGACGAAGGAGAGGAGCTGGCCTTCCCTTGTCTCCACGCGCCACGTCCACCTTGAAATGTCGGC
 TTCAGCTCTGGTGGTGTGGGGGGCCAGACTCCAGCATCCCTGATGATCACCAGGGCGAGAAAGGGCA
 GGGAGGAACGGAGGGAGGTGTGGGTGAGCTGATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200142 protein sequence
 Red=Cloning site Green=Tags(s)

MKTLETQLAPDCCPSDQDPAPAHPSPHASPMKNADSELMPPPPERGDPPRLSPDPVAGSAVSQELREG
 DPVSLSTPLETEFGSPSELSPRIEEQELSENTSLPAEEANGSLSEEEANGPELGSKAMEDTSGEPAAED
 EGDTAWNYSFSQLPRFLSGSWSEFSTQPENFLKGCKWAPDGCILTNSADNILRIYNLPPELYHEGEQVE
 YAEMVPVLRMVEGDTIYDYCWYSLMSSAQPDTSYVASSSRENPIHIWDAFTGELRASFRAYNHLDELTA
 HSLCFSPDGSQFCGFNRTVRVFSTARPRDCEVRATFAKKQGQSGIISCIASFPAQPLYACGSYGRSLG
 LYAWDDGSPLALLGGHQGGITHLCFHPDGNRFFSGARKDAELLCWDLRQSGYPLWSL GREVTTNQRIFYD
 LDPTGQFLVSGSTSGAVSVWDTDGPNGDKPEPVL SFLPQKDC TNGVSLHPSLPLLATASGQRFPEPTE
 SGDEGEELGLPLLSTRHVHLECRLLQLWCCGGAPDSSIPDDHQGEKGQGGTEGGVGELI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6384_g04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_018081

ORF Size: 1644 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_018081.2](#)

RefSeq Size: 1982 bp

RefSeq ORF: 1647 bp

Locus ID: 55135

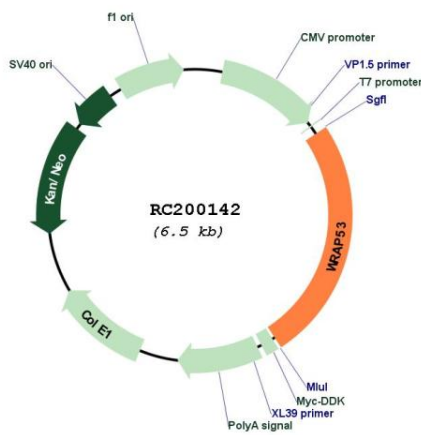
UniProt ID: [Q9BUR4](#)

Cytogenetics: 17p13.1

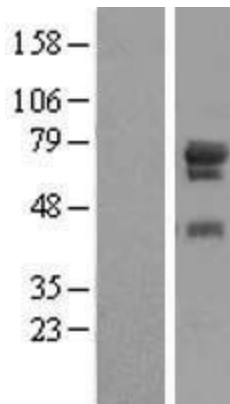
MW: 59.3 kDa

Gene 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]

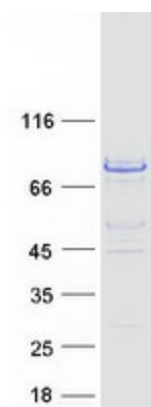
Product images:



Circular map for RC200142



Western blot validation of overexpression lysate (Cat# [LY413323]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200142 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WRAP53 protein (Cat# [TP300142]). The protein was produced from HEK293T cells transfected with WRAP53 cDNA clone (Cat# RC200142) using MegaTran 2.0 (Cat# [TT210002]).