

## Product datasheet for **RG227773**

### **WDR79 (WRAP53) (NM\_001143991) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	WDR79 (WRAP53) (NM_001143991) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WRAP53
Synonyms:	DKCB3; TCAB1; WDR79
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG227773 representing NM\_001143991  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGACTTTGGAGACTCAACCGTTAGCTCCGGACTGCTGTCTTCAGACCAGGACCCAGCTCCAGCCC  
 ATCCTTCTCCCCACGCTTCCCCGATGAATAAAAAATGCGGACTCTGAACTGATGCCACCGCTCCCCAAAAG  
 GGGGATCCGCCCGGTTGTCCCAAGTCTGTGGCTGGCTCAGCTGTGTCCAGGAGCTACGGGAGGGG  
 GACCCAGTTTCTCTCCACTCCCTGGAAACAGAGTTTGGTTCCCTAGTGAGTTGAGTCTCGAATCG  
 AGGAGCAAGAAGTTTCTGAAAATAACAAGCTTCTGCAGAAGAAGCAAACGGGAGCCTTTCTGAAGAAGA  
 AGCGAACGGGCCAGAGTTGGGGTCTGAAAAGCCATGGAAGATACCTCTGGGGAACCCGCTGCAGAGGAC  
 GAGGGAGACCCGCTTGGAACTACAGCTTCTCCAGCTGCCTCGATTTCTCAGTGGTTCTGGTCAGAGT  
 TCAGCACCAACCTGAGAACTTCTTAAAGGCTGTAAGTGGGCTCCTGACGGTCTCTGCATCTTGACCAA  
 TAGTGCTGATAACATCTTGCGAATTTATAACCTGCCCCAGAGCTGTACCATGAGGGGGAGCAGGTGGAA  
 TATGCAGAAATGGTCCCTGTCTTCAATGGTGAAGGTGATACCATCTATGATTACTGTGGTATTCTC  
 TGATGTCTCAGCCCAGCCAGACACCTCTACGTGGCCAGCAGCAGCCGGGAGAACCCGATTTCATATCTG  
 GGACGATTCACTGGAGAGCTCCGGGCTTCTTTCGCGCTACAACCACCTGGATGAGCTGACGGCAGCC  
 CATTTCGCTCTGCTTCTCCCCGGATGGCTCCAGCTCTTCTGTGGCTTCAACCGGACTGTGCGTGTTTTT  
 CCACGGCCCGGCTGGCCGAGACTGCGAGGTCCGAGCCACATTTGCAAAAAGCAGGGCCAGAGCGGCAT  
 CATCTCTGCATAGCCTTCAAGCCAGCCAGCCCTCTATGCCTGTGGCTCCTACGGCCGCTCCCTGGGT  
 CTGTATGCCTGGGATGATGGCTCCCTCTCGCTTGTGGGAGGGACCAAGGGGGCATCACCCACCTCT  
 GCTTTTCATCCCGATGGCAACCGTTCTTCTCAGGAGCCGCAAGGATGCTGAGCTCCTGTGCTGGATCT  
 CCGGCAGTCTGGTTACCACTGTGGTCCCTGGGTGAGAGGTGACCACCAATCAGCGCATCTACTTCGAT  
 CTGGACCCGACCGGCGAGTTCCTAGTGAGTGGCAGCAGCAGCGGGGCTGTCTCTGTGTGGACACGGACG  
 GGCTGGCAATGATGGGAAGCCGGAGCCGCTGTTGAGTTTTCTGCCCAAGGACTGCACCAATGGCGT  
 GAGCTGCACCTAGCCTGCCTCTCTGGCCACTGCCTCCGGTCAGCGTGTGTTTCTGAGCCACAGAG  
 AGTGGGGACGAAGGAGAGGAGCTGGGCTTCCCTTGTCTCCACGCGCCACGTCCACCTTGAAATGTCGGC  
 TTCAGCTCTGGTGGTGTGGGGGGCGCCAGACTCCAGCATCCCTGATGATCACCAGGGCGAGAAAGGGCA  
 GGGAGGAACGGAGGGAGGTGTGGGTGAGCTGATA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG227773 representing NM\_001143991  
 Red=Cloning site Green=Tags(s)

MKTLETQPLAPDCCPSDQDPAPAHPSPHASPMKNADSELMPPPPERGDPPRLSPDPVAGSAVSQELREG  
 DPVSLSTPLETEFGSPSELSPRIIEQELSENTSLPAEEANGSLSEEEANGPELGSKAMEDTSGEPAAED  
 EGDTAWNYSFSQLPRFLSGSWSEFSTQPENFLKGCKWAPDGCILTNSADNILRIYNLPPELYHEGEQVE  
 YAEMVPVLRMVEGDTIYDYCWYSLMSSAQPDTSYVASSSRENPIHIWDAFTGELRASFRAYNHLDELTA  
 HSLCFSPDGSQFLCGFNRTVRVFSSTARPRDCEVRATFAKKQGSIGIISCIASFPAQPLYACGSYGRSLG  
 LYAWDDGSPLALLGGHQGGITHLCFHPDGNRFFSGARKDAELLCWDLRQSGYPLWSLGREVTTNQRIFYD  
 LDPTGQFLVSGSTSGAVSVWDTDGPNGDKPEPVL SFLPQKDCNTNGVSLHPSLPLLATASGQRVFPEPTE  
 SGDEGEELGLPLLSTRHVHLECRLLQWCGGAPDSSIPDDHQGEKGQGGTEGGVGELI

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001143991
<b>ORF Size:</b>	1644 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001143991.2</a>
<b>RefSeq Size:</b>	1847 bp
<b>RefSeq ORF:</b>	1647 bp
<b>Locus ID:</b>	55135
<b>UniProt ID:</b>	<a href="#">Q9BUR4</a>
<b>Cytogenetics:</b>	17p13.1
<b>Gene Summary:</b>	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]