

Product datasheet for **RG227786**

WDR79 (WRAP53) (NM_001143992) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR79 (WRAP53) (NM_001143992) 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:

>RG227786 representing NM_001143992
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGACTTTGGAGACTCAACCGTTAGCTCCGGACTGCTGTCTTCAGACCAGGACCCAGCTCCAGCCC
 ATCCTTCTCCCCACGCTTCCCCGATGAATAAAAAATGCGGACTCTGAACTGATGCCACCGCTCCCCAAAG
 GGGGATCCGCCCGGTTGTCCCAAGTCTGTGGCTGGCTCAGCTGTGTCCAGGAGCTACGGGAGGGG
 GACCCAGTTTCTCTCCACTCCCTGGAAACAGAGTTTGGTTCCCTAGTGAGTTGAGTCTCGAATCG
 AGGAGCAAGAAGTTTCTGAAAATAACAAGCTTCTGCAGAAGAAGCAAACGGGAGCCTTTCTGAAGAAGA
 AGCGAACGGGCCAGAGTTGGGTCTGAAAAGCCATGGAAGATACCTCTGGGGAACCCGCTGCAGAGGAC
 GAGGGAGACCCGCTTGGAACTACAGCTTCTCCAGCTGCCTCGATTTCTCAGTGGTTCTGGTCAGAGT
 TCAGCACCAACCTGAGAACTTCTTAAAGGCTGTAAGTGGCTCCTGACGGTCTCTGCATCTTGACCAA
 TAGTGCTGATAACATCTTGCGAATTTATAACCTGCCCCAGAGCTGTACCATGAGGGGAGCAGGTGGAA
 TATGCAGAAATGGTCCCTGTCTTCAATGGTGAAGGTGATACCATCTATGATTACTGTGGTATTCTC
 TGATGTCTCAGCCCAGCCAGACACCTCTACGTGGCCAGCAGCAGCCGGGAGAACCCGATTTCATATCTG
 GGACGCATTCACTGGAGAGCTCCGGGCTTCTTTCGCGCTACAACCACCTGGATGAGCTGACGGCAGCC
 CATTTCGCTCTGCTTCTCCCCGGATGGCTCCAGCTTCTGTGGCTTCAACCCGACTGTGCGTGTTTTT
 CCACGGCCCGGCTGGCCGAGACTGCGAGGTCCGAGCCACATTTGCAAAAAGCAGGGCCAGAGCGGCAT
 CATCTCTGCATAGCCTTCAAGCCAGCCAGCCCTCTATGCCTGTGGCTCCTACGGCCGCTCCCTGGGT
 CTGTATGCCTGGATGATGGCTCCCTCTCGCTTGTGGGAGGGACCAAGGGGGCATCACCCACCTCT
 GCTTTCATCCCGATGGCAACCGTCTTCTCAGGAGCCGCAAGGATGCTGAGCTCCTGTGCTGGATCT
 CCGGCAGTCTGGTTACCCACTGTGGTCCCTGGTTCGAGAGGTGACCACCAATCAGCGCATCTACTTCGAT
 CTGGACCCGACCGGCAGTTCCTAGTGAGTGGCAGCAGCAGCGGGCTGTCTCTGTGTGGACACGGACG
 GGCTGGCAATGATGGGAAGCCGGAGCCGTGTTGAGTTTTCTGCCCAAGGACTGCACCAATGGCGT
 GAGCTGCACCTAGCCTGCCTCTCTGGCCACTGCCTCCGGTCAGCGTGTGTTCTGAGCCACAGAG
 AGTGGGGACGAAGGAGAGGAGCTGGCCTTCCCTTGTCTCCACGCGCCACGTCCACCTGAATGTCGGC
 TTCAGCTCTGGTGTGGGGGGCGCCAGACTCCAGCATCCCTGATGATCACCAGGGCGAGAAAGGGCA
 GGGAGGAACGGAGGGAGGTGTGGGTGAGCTGATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227786 representing NM_001143992
 Red=Cloning site Green=Tags(s)

MKTLETQPLAPDCCPSDQDPAPAHPSPHASPMKNADSELMPPPPERGDPPRLSPDPVAGSAVSQELREG
 DPVSLSTPLETEFGSPSELSPRIEEQELSENTSLPAEEANGSLSEEEANGPELGSKAMEDTSGEPAAED
 EGDTAWNYSFSQLPRFLSGSWSEFSTQPENFLKGCKWAPDGCILTNSADNILRIYNLPPELYHEGEQVE
 YAEMVPVLRMVEGDTIYDYCWYSLMSSAQPDTSYVASSSRENPIHIWDAFTGELRASFRAYNHLDELTA
 HSLCFSPDGSQFLCGFNRTVRVFSSTARPRDCEVRATFAKKQGSIGIISCIASFPAQPLYACGSYGRSLG
 LYAWDDGSPLALLGGHQGGITHLCFHPDGNRFFSGARKDAELLCWDLRQSGYPLWSLGREVTTNQRIFYD
 LDPTGQFLVSGSTSGAVSVWDTDGPNDGKPEPVL SFLPQKDCNTNGVSLHPSLPLLATASGQRVFPEPTE
 SGDEGEELGLPLLSTRHVHLECRLLQWCGGAPDSSIPDDHQGEKGQGGTEGGVGELI

TRTRPLE – GFP Tag – V

Restriction Sites:

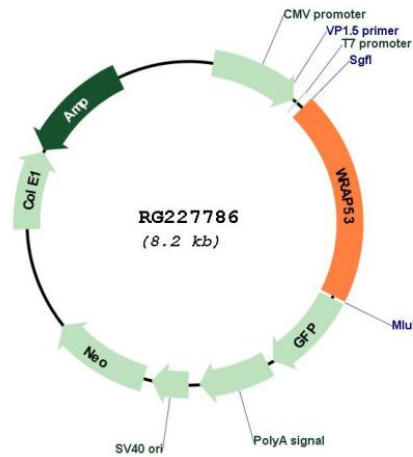
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001143992
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:	<ol style="list-style-type: none">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_001143992.2
RefSeq Size:	1896 bp
RefSeq ORF:	1647 bp
Locus ID:	55135
UniProt ID:	Q9BUR4
Cytogenetics:	17p13.1
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]