

Product datasheet for **RN211362**

Wrap53 (NM_001007610) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wrap53 (NM_001007610) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Wrap53
Synonyms:	Wdr79
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN211362 representing NM_001007610
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGACGTCGGAGGAGCTACGCCTAGCTCCGGATAGCCTCCCTTCTGACCTGGTCCCAGCCCCAGTGC
 TCCAAGCTTCCCCCGGACAAAAATACAGACTCTGAACCGGTGCCTCCGCCATGCGGTGGAGATGACCA
 ACTCCAGGTAGCCACAGATGCCGTGGCCAGCTCGGTTGTGCCAGGAGCTTCAACAAGGGGACTCAGCT
 CCTCTGGAAGTAGAATTTAATATTTCCAGTGAGTTGAGTCTCGAATCGAGGAGCAAGAAGTTCTGAAA
 ATGCCAGCCTTCTGTAGAAGAAACGAATCGGCCCGAGTTGGAGTCAGGGGAAGCCATGGAAGGTGTGTC
 TGAGGAACCCGCTGCAGTGGATGAGGGGACATCTTTGGAGCTACAGCTTCTCTCAGGTACCCCAATAC
 CTCAGTGGCTCCTGGTCCGAGTTCAGCACCCGCTCCGAGAATCTTGAAAGGTTGCAAGTGGGCCCTG
 ACGGTTCTGTATCTTGACCAATAGTGTGACAATGTCTACGGATTTACAACCTGCCCCAGAAGTGTGTA
 CAGTGAAGCGAGCAGGTGGATTATGCCGAAATGGTTCCTGTCTGCGAATGGTAGAGGGTGACACCATC
 TATGATTACTGTGGTATTCTCTGATGTCTCCACCCAGCCAGACACCTCTATGTGGCCAGCAGCAGCC
 GGGAGAACCCTAATCACATCTGGGATGCATTCAGTGGAGAATCCGGGCTTCTTTTCGCGCTTACAACCA
 CCTGGACGAGTTGACAGCGGCCACTCACTCTGTTTCTCCCCGGATGGTCCCAACTCTTTTGTGGCTTC
 AACCGACTGTGCGTGTCTTTCCACATCCAGGCTGGCAGAGACTGTGAGGTGCGAACCACATTTGCCA
 AAAAGCAGGGCCAGAGTGGCATCATCTCTGTCTAGCCTTTAGTCCAGCCAGCCCTCTATGCCTGTGG
 CTCCTATGGCCGACCCCTGGGCTGTATGCCTGGGATGATGGTTCACCTTTGCCCTTGTGGGGGCCAT
 CAAGGAGGTATCACCCACCTTTGCTTTACCCCTGATGGCAACCTCTTCTCTCAGGAGCCGAAAGGATG
 CTGAATCTGTGCTGGGATCTCCGGCAGCCGGGCCACCTCCTGTGGTCTCTGAGTCGGGAAGTGACCAC
 CAATCAGCGCATCTACTTTGATCTGGACCCGAGCGGGCAGTTCTAGTGAGTGGCAACACCAGTGGAGTT
 GTCTCCGTGTGGGACATCAGTGGAGCGTTCAGTACTGCAAGCAGCTGGAGCCAGTGTACTTTTCTGC
 CCCAGGACGACTGCACCAATGGAGTCAGCCTTACCCCTACCTTGCTCTGCTGGCCACTGCTTCTGGCCA
 GCGCATGTTTCCAGAGCCACCAATAGCGGGGATGAAGGTGAGCCGGAGCTGGACCTTCCCTGTCTCC
 CTGCGCCAGCCCATCTGAATGTCAGCTACAGCTCTGGTGGTGTGGAGGGGACCTGACCCAGTAACC
 CTGATGAGGACCAGGATGAGAAGGGACAAGGAAGGACAGAGGCTGTCGGAATGAGT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001007610
- Insert Size:** 1599 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001007610.1](#), [NP_001007611.1](#)

RefSeq Size: 1782 bp

RefSeq ORF: 1599 bp

Locus ID: 287432

UniProt ID: [Q5XII5](#)

Cytogenetics: 10q24

Gene Summary: RNA chaperone that plays a key role in telomere maintenance and RNA localization to Cajal bodies. Specifically recognizes and binds the Cajal body box (CAB box) present in both small Cajal body RNAs (scaRNAs) and telomerase RNA template component (TERC). Essential component of the telomerase holoenzyme complex, a ribonucleoprotein complex essential for the replication of chromosome termini that elongates telomeres in most eukaryotes. In the telomerase holoenzyme complex, required to stimulate the catalytic activity of the complex. Acts by specifically binding the CAB box of the TERC RNA and controlling the folding of the CR4/CR5 region of the TERC RNA, a critical step for telomerase activity. In addition, also controls telomerase holoenzyme complex localization to Cajal body. During S phase, required for delivery of TERC to telomeres during S phase and for telomerase activity. In addition to its role in telomere maintenance, also required for Cajal body formation, probably by mediating localization of scaRNAs to Cajal bodies. Also plays a role in DNA repair: phosphorylated by ATM in response to DNA damage and relocates to sites of DNA double-strand breaks to promote the repair of DNA double-strand breaks. Acts by recruiting the ubiquitin ligase RNF8 to DNA breaks and promote both homologous recombination (HR) and non-homologous end joining (NHEJ).[UniProtKB/Swiss-Prot Function]