

Product datasheet for **MC224391**

Wrn (NM_001122822) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wrn (NM_001122822) Mouse Untagged Clone
Tag: Tag Free
Symbol: Wrn
Synonyms: A1846146
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224391 representing NM_001122822
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGAAACCCTTCACTACAGCGGAAATTTCCAGAATGGATGTCTATGCAGAGTCAAAGATGTGCTACAG
 AAGAAAAGGCCTGCGTTCAGAAGAGTGTCTTGAAGATAACCTCCCATTCTTAGAATTCCTGGATCCAT
 TGTTTACAGTTATGAAGCTAGTATTGCTCCTTCTGTCTGAAGACATTAGCATGCGTCTGTCTGATGGC
 GATGTGGTGGGATTTGACATGGAATGGCCGCCATATACAAGCCAGGGAAAAGAAGCAGAGTCCGAGTGA
 TCCAGTTGTGTGTCTGAGAGCAAATGTTACTTGTTCACATTTCTCCATGTCAGTTTTCCCCAGGG
 ATTAATAATGTTACTAGAAAACAAATCAATTAAGAAGGCAGGGGTTGGGATTGAAGGGGACCAGTGGAAA
 CTTCTGCGTGATTTTACGTCAGTTGGAGAGTTTGTGGAGCTGACGGATGTTGCCAATGAAAAGTTGA
 AGTGCGCAGAGACCTGGAGCCTCAATGGTCTGGTTAAACACGCTTAGGGAAAACAACCTTTGAAAGACAA
 GTCCATCCGCTGCAGCAATTTGGAGTAATTTCCCCTCACTGAGGACCAGAACTGTATGCAGCCACTGAT
 GCTTATGCTGGTCTTATCATCTATCAAAAATTAGGAAATTTGGGTGATACTGCGCAAGTGTTCCTCTAA
 ATAAAGCAGAGGAAAACCTACCTCTGGAGATGAAGAAACAGTTGAATTCATCTCCGAAGAAATGAGGGA
 CCTAGCCAATCGTTTTCTGCACTTGCAGAAAATTTGAAAACCTCCAGAGGGTTCTGTAATATTGAAG
 AGTATTTAGAAAATCTCTGTTCAATGAGAAAAGTATCTGTGGTCTACAAACACTGAGACTAGACTGA
 AGCCGGGCGAGTAGTTTTAATTTACTGTCATCAGAGGATTCAGCTGCTGCTGGAGAAAAAGAGAAACAGAT
 TGGAAAACATAGTACTTTTGGCTAAAATTAAGAAGAACCATGGGACCCAGAACTTGACAGTTTAGTGAAG
 CAAGAGGAGGTTGATGTATTTAGAAATCAAGTGAAGCAAGAAAAAGGTGAATCTGAAAATGAAATAGAAG
 ACAATCTGTTGAGAGAAGATATGAAAAGAACTTGTGTATTCTAGTATTTAGAAAATGAACTCCAAGA
 TTTGGAACAGCAAGCTAAAGAAGAAAAATATAATGATGTTTCTCACCACCTTTCTGAGCATTATCTCCC
 AATGATGATGAGAATGACTCCTCTATATAATTGAAAAGTATGAAGATTTGAAAATGGAGATGCTGAAGT
 CTTTAGAAAACCTAAATAGTGACGTGGTGAACCCACTCACTCTACATGGTTGAAAATGGGAACCAATGG
 GCGTCTTCTCCTGAGGAGGAAGATGGACACGGAATGAAGCCATCAAAGAGGAGCAGGAAGAAGAGGAC
 CATTATTGCCGGAACCAACGCAAAGCAAATTAATTGCCTCAAGACCTATTTCCGGACACAGCAGTTTAA



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AACCGTTTCAGTGGAAAGTCATCCATTCTGTATTAGAAGAGAGAAGAGATAATGTTGTTGCATGGCAAC
 TGGATATGGGAAGAGTCTGTGCTTCCAGTATCCGCCTGTTTATACAGGCAAGATTGGCATTGTCATTTC
 CCTCTCATTTCCTTAATGGAAGACCAAGTCCCTCCAGCTTGAGCTGTCCAATGTTCCAGCCTGTTTACTTG
 GATCTGCACAGTCAAAAAATATTCTAGGAGATGTTAAATTAGGCAAAATAGGGTCATCTACATAACTCC
 AGAGTTCTGTTCTGGTAACTTGGATCTACTCCAGCAACTTGACTCTAGTATTGGCATCACTCTATTGCT
 GTGGATGAGGCTCACTGCATTTCCAGATGGGCCATGATTCAGAAGTTCATTCCAGGATGCTGGGCTCTC
 TTAANAACAGCGCTCCCATTGGTTCAGTCACTCCGCTACTGCAAGCTTCCATCCGGGAAGA
 CATTATAAGCTGCTTAAACCTGAAAGACCTCAGATCACCTGCACTGGATTTGATCGGCCAAATCTGTAC
 TTAGAAGTTGGACGGAACAGGGAACATCCTTCAAGTCTAAAGCCGTTTCTCGTCCGAAAGGCAAGTT
 CTGCTGGGAATTTGAAGGTCCAACCATCATCTATTGCTTTCGAGAAAAATGACAGAACAAGTTACTGC
 TGAACCTGGGAACTGAACTTAGCTGCAGAACATACCACGCTGGCATGAAAATTAGCGAAAGGAAGGAC
 GTTCATCATAGGTTCTGAGAGATGAAATTCAGTGTGTTGTAGCTACTGTAGCTTTTGAATGGGCATTA
 AATAAGCTGACATTCGAAAGTTATTATTATGGTGCCTAAGGAAATGGAATCCTATTACCAGGAAAT
 TGGTAGAGCTGGCCGGGATGGACTTCAGAGTTCCTGTCACTTGTCTGGGCTCCAGCAGACTTTAACACA
 TCCAGGAATCTCCTTATTGAGATTCACGATGAAAAGTTCGGTTATATAAATTAAGATGATGGTAAAGA
 TGGAAAAATACCTTCACTCCAGTCAAGTGTAGGCGACGAATCATCTTGTCCCATTTGAGGACAAATGTCT
 GCAGAAGGCTCCTTGGACATTATGGGAACTGAAAAATGCTGTGATAATTGCAGGCCAGGCTGAATCAT
 TGCTTACTGCTAACTCAGAGGACGCATCCCAAGACTTTGGGCCACAAGCATTCCAGCTACTGTCTG
 CTGTGGACATCCTGCAGGAGAAATTTGGAATGGGATCCGATCTTATTCTCCGAGGATCTAATTTCTCA
 GCGTCTTCTGATAAATATCGGGTACAGGCTCTTTGGTGTGGAAAGGAGCAAGCAGAAAAGTTGGTGG
 AAGACCTTTCTACCATCTCATAGCTGAAGGATCTTGGTAGAAGTTCCCAAGGAAAACAATATATAA
 AGACATGTTCCCTCACAAAAAGGGTAGAAAGTGGCTGGAGAAGCCAGTTCGCAGTCTCCTCCGAGCCT
 TCTCCTCAAGCTAATGAAGAGATGTTTCCAAGGAAAGTCTGCTACCAAGTTCTAATCCTGTATCTCCA
 GAAACGACGCAACATTCCTCTAATCAAAACCCAGCTGGATTAACCTACCAAGCAGTCTAATTTGGAGAGAA
 CGCATTCTTACAAGTGCCTGAGAAAGTTTCTTCTGGGACTAACATTCTAAAAAAGTGCCGTGATGCC
 GTCACCAGGAACATCTTCCAGCCCTTAGAACCTGCCATCTCAGCCCAAGAGCTGGACGCTCGGACTGGG
 CTATATGCCAGGCTGGTGAAGCAAGGCAGAAACAGCTAATAAGATGGATGTACCTCCAGCTATTTTAG
 CAACAAACAAGGTTCTGCTGGACATGGCTAAAATGAGACCGACTACTGTTGAAAACATGAAAACAGATCGA
 CGGTGTCTCTGAAGGCAAAGCTGCTGTTGGCCCTCTGTTGGAAGTCATCAACATTTCTGTCAAGTA
 ACTAGTGTTCAGACAGACCTCCTTCCAGTGCCAAACCTCACAAGGAACAGGAGAAAAGTCAAGGAGATGG
 AAAAGAAAGACTGCTCACTCCCCAGTCTGTGGCCGTACATACACTCTATTCCAGGAAAAGAAAATGCC
 CTTACACAGCATAGCTGAGAACAGGCTCCTGCCTCTCACAGCAGCCGGCATGCACCTAGCCAGGCGGTG
 AAAGCCGGCTACCCCTGGATATGGAGCGAGCTGGCCTGACCCCAAGAGACTTGAAGATTATTATGGATG
 TCATCCGAAACCCTCCATCAACTCAGATATGTATAAAGTTAAACTCATCAGAATGTTAGTTCCTGAAAA
 CTTAGACACGTACCTCATCCACATGGCGATTGAGATTCTTCAGAGTGGTCCGACAGCAGAACCCAGCCT
 CCTTGTGATTCCAGCAGGAAGAGGCGTTTCCCCAGCTCTGCAGAGAGTTGTGAGAGCTGTAAAGGAGGCA
 AAGAGGCGGTACCGAGACCAAGGCATCATCTTCAGAGTCAAAGAGAAAATACCCGAGTGGTTTGCCAA
 AGGAAATGTGCCCTCAGTGATACCGGCAGCTCATCATCAATGGCCAAGACCAAAAAGAAAGTCTCTTT
 AGTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001122822

Insert Size:

4206 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).

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| 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: | <u>NM_001122822.1</u> , <u>NP_001116294.1</u> |
| RefSeq Size: | 6273 bp |
| RefSeq ORF: | 4206 bp |
| Locus ID: | 22427 |
| UniProt ID: | <u>O09053</u> |
| Cytogenetics: | 8 20.3 cM |
| Gene Summary: | <p>Multifunctional enzyme that has both magnesium and ATP-dependent DNA-helicase activity and 3'->5' exonuclease activity towards double-stranded DNA with a 5'-overhang. Has no nuclease activity towards single-stranded DNA or blunt-ended double-stranded DNA. Binds preferentially to DNA substrates containing alternate secondary structures, such as replication forks and Holliday junctions. May play an important role in the dissociation of joint DNA molecules that can arise as products of homologous recombination, at stalled replication forks or during DNA repair. Alleviates stalling of DNA polymerases at the site of DNA lesions. Important for genomic integrity. Plays a role in the formation of DNA replication focal centers; stably associates with foci elements generating binding sites for RP-A (By similarity). Plays a role in double-strand break repair after gamma-irradiation (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.</p> |