OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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:	AI846146
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC224391 representing NM_001122822
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAACCACTTCACTACAGCGGAAATTTCCAGAATGGATGTCTATGCAGAGTCAAAGATGTGCTACAG
AAGAAAAGGCCTGCGTTCAGAAGAGTGTTCTTGAAGATAACCTCCCATTCTTAGAATTCCCTGGATCCAT
TGTTTACAGTTATGAAGCTAGTGATTGCTCCTTCCTGTCTGAAGACATTAGCATGCGTCTGTCTGATGGC
GATGTGGTGGGATTTGACATGGAATGGCCGCCCATATACAAGCCAGGGAAAAGAAGCAGAGTCGCAGTGA
TCCAGTTGTGTGTGTCTGAGAGCAAATGTTACTTGTTTCACATTTCTTCCATGTCAGTTTTCCCCCAGGG
ATTAAAAATGTTACTAGAAAACAAATCAATTAAGAAGGCAGGGGTTGGGATTGAAGGGGACCAGTGGAAA
CTTCTGCGTGATTTTGACGTCAAGTTGGAGAGTTTTGTGGAGCTGACGGATGTTGCCAATGAAAAGTTGA
AGTGCGCAGAGACCTGGAGCCTCAATGGTCTGGTTAAACACGTCTTAGGGAAACAACTTTTGAAAGACAA
GTCCATCCGCTGCAGCAATTGGAGTAATTTCCCCCTCACTGAGGACCAGAAACTGTATGCAGCCACTGAT
GCTTATGCTGGTCTTATCATCTATCAAAAATTAGGAAATTTGGGTGATACTGCGCAAGTGTTTGCTCTAA
ATAAAGCAGAGGAAAACCTACCTCTGGAGATGAAGAAACAGTTGAATTCAATCTCCGAAGAAATGAGGGA
CCTAGCCAATCGTTTTCCTGTCACTTGCAGAAATTTGGAAACTCTCCAGAGGGTTCCTGTAATATTGAAG
AGTATTTCAGAAAATCTCTGTTCATTGAGAAAAGTGATCTGTGGTCCTACAAACACTGAGACTAGACTGA
AGCCGGGCAGTAGTTTTAATTTACTGTCATCAGAGGATTCAGCTGCTGCTGGAGAAAAAGAGAAACAGAT
TGGAAAACATAGTACTTTTGCTAAAATTAAAGAAGAACCATGGGACCCAGAACTTGACAGTTTAGTGAAG
CAAGAGGAGGTTGATGTATTTAGAAATCAAGTGAAGCAAGAAAAAGGTGAATCTGAAAATGAAATAGAAG
ACAATCTGTTGAGAGAAGATATGGAAAGAACTTGTGTGATTCCTAGTATTTCAGAAAATGAACTCCAAGA
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AATGATGATGAGAATGACTCCTCCTATATAATTGAAAGTGATGAAGATTTGGAAATGGAGATGCTGAAGT
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GCGTCTTCCTCCTGAGGAGGAAGATGGACACGGAAATGAAGCCATCAAAGAGGAGCAGGAAGAAGAGGAC
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CATTTATTGCCGGAACCCAACGCAAAGCAAATTAATTGCCTCAAGACCTATTTCGGACACAGCAGTTTTA
AACCGGTTCAGTGGAAAGTCATCCATTCTGTATTAGAAGAGAGAAGAGATAATGTTGTTGTCATGGCAAC
TGGATATGGGAAGAGTCTGTGCTTCCAGTATCCGCCTGTTTATACAGGCAAGATTGGCATTGTCATTTCA
CCTCTCATTTCCTTAATGGAAGACCAAGTCCTCCAGCTTGAGCTGTCCAATGTTCCAGCCTGTTTACTTG
GATCTGCACAGTCAAAAAATATTCTAGGAGATGTTAAATTAGGCAAATATAGGGTCATCTACATAACTCC
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GTGGATGAGGCTCACTGCATTTCAGAGTGGGGCCATGATTTCAGAAGTTCATTCAGGATGCTGGGCTCTC
TTAAAACAGCGCTCCCATTGGTTCCAGTCATTGCACTCTCCGCTACTGCAAGCTCTTCCATCCGGGAAGA
CATTATAAGCTGCTTAAACCTGAAAGACCCTCAGATCACCTGCACTGGATTTGATCGGCCAAATCTGTAC
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CTGCCTGGGAATTTGAAGGTCCAACCATCATCTATTGTCCTTCGAGAAAAATGACAGAACAAGTTACTGC
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TCCAGGAATCTCCTTATTGAGATTCACGATGAAAAGTTCCGGTTATATAAATTAAAGATGATGGTAAAGA
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TGCCTTACTGCTAACAACTCAGAGGACGCATCCCAAGACTTTGGGCCACAAGCATTCCAGCTACTGTCTG
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GCGTCTTCCTGATAAATATCGGGGTCACAGGCTCTTTGGTGCTGGAAAGGAGCAAGCAGAAAGTTGGTGG
AAGACCCTTTCTCACCATCTCATAGCTGAAGGATTCTTGGTAGAAGTTCCCAAGGAAAACAAATATATAA
AGACATGTTCCCTCACAAAAAAGGGTAGAAAGTGGCTTGGAGAAGCCAGTTCGCAGTCTCCTCCGAGCCT
TCTCCTTCAAGCTAATGAAGAGATGTTTCCAAGGAAAGTTCTGCTACCAAGTTCTAATCCTGTATCTCCA
GAAACGACGCAACATTCCTCTAATCAAAACCCAGCTGGATTAACTACCAAGCAGTCTAATTTGGAGAGAA
CGCATTCTTACAAAGTGCCTGAGAAAGTTTCTTCTGGGACTAACATTCCTAAAAAAAGTGCCGTGATGCC
GTCACCAGGAACATCTTCCAGCCCCTTAGAACCTGCCATCTCAGCCCAAGAGCTGGACGCTCGGACTGGG
CTATATGCCAGGCTGGTGGAAGCAAGGCAGAAACACGCTAATAAGATGGATGTACCTCCAGCTATTTTAG
CAACAAACAAGGTTCTGCTGGACATGGCTAAAATGAGACCGACTACTGTTGAAAACATGAAACAGATCGA
CGGTGTCTCTGAAGGCAAAGCTGCTCTGTTGGCCCCTCTGTTGGAAGTCATCAAACATTTCTGTCAAGTA
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AAAAGAAAGACTGCTCACTCCCCCAGTCTGTGGCCGTCACATACACTCTATTCCAGGAAAAGAAAATGCC
CTTACACAGCATAGCTGAGAACAGGCTCCTGCCTCTCACAGCAGCCGGCATGCACTTAGCCCAGGCGGTG
AAAGCCGGCTACCCCCTGGATATGGAGCGAGCTGGCCTGACCCCAGAGACTTGGAAGATTATTATGGATG
TCATCCGAAACCCTCCCATCAACTCAGATATGTATAAAGTTAAACTCATCAGAATGTTAGTTCCTGAAAA
CTTAGACACGTACCTCATCCACATGGCGATTGAGATTCTTCAGAGTGGTTCCGACAGCAGAACCCAGCCT
CCTTGTGATTCCAGCAGGAAGAGGCGTTTCCCCAGCTCTGCAGAGAGTTGTGAGAGCTGTAAGGAGAGCA
AAGAGGCGGTCACCGAGACCAAGGCATCATCTTCAGAGTCAAAGAGAAAATTACCCGAGTGGTTTGCCAA
AGGAAATGTGCCCTCAGCTGATACCGGCAGCTCATCATCAATGGCCAAGACCAAAAAGAAAGGTCTCTTT
AGTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001122822

Insert Size: 4206 bp

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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_001122822.1, NP_001116294.1
RefSeq Size:	6273 bp
RefSeq ORF:	4206 bp
Locus ID:	22427
UniProt ID:	O09053
Cytogenetics:	8 20.3 cM
Gene Summary:	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] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.

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