

Product datasheet for **SC320312**

WHIP (WRNIP1) (NM_130395) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WHIP (WRNIP1) (NM_130395) Human Untagged Clone
Tag:	Tag Free
Symbol:	WHIP
Synonyms:	bA420G6.2; CFAP93; FAP93; WHIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_130395.1
 CATGAGCGGCCCTCTCCGGCCCGAGCGTCTGCTGGTTCCCCGAGCGAGGGTCTC
 GCGGCGCGGGCCCTAGCGGAGGGCATCGAAGGCCCTCCGCGTGCGCACGGGTTGCTGCGGC
 CGCGCCGGGCGCCGGGGAGGGCGGGCCGATGGAGGTGAGCGGGCCGGAAGACGACC
 CCTTCTTTTCGACGTGCACAGGTGCAGTGCCCCGTGTGCCAGCAGATGATGCCCGCCG
 CGCACATCAACTCGACCTGGACCGTGTCTGTCTCCACCCGGCGGGGCACCGGGAGC
 CCGCGGCGGGTGCACCGCGCCGGGGAGCGGGCAAGGGGCCCTCGCCGCCGGGCCA
 AGAGCGCGGGCTGTTCGAGAGCTCGGCCGCTGAAGCAGCCAGCCACCCGACGGCAGCCG
 AGAGCAGTGAGGGCGAGGGCGAGGAGGGCGACGACGGCGCGAGACCAGAGCCGCGAGA
 GCTACGACGCGCCGCCACACCCAGCGCGCCGCTTATCCCCGACTTCCCGTGGCC
 GCTCCAGCAGCCCGGGAGGAAGGGTCCGGGAAGAGGCCGGCGCCGCCCGCGGGCGG
 GGAGCGCTCTCCGCGCAGCTGGGACGAGGCGGAGGCGCAGGAGGAGGAGGCCGTGG
 GCGACGGCGATGGCGACGGGACCGGACGCGGACGGCGAGGACGACCCGGGCGACTGGG
 ACGCGGACGCTGCCAAGCCGCCACCGCTTCGGGGCCAGCGGGGGCCGCCCGCACC
 CCCGGGCGCTGGCTGCCGAGGAGATCCGACAGATGCTACAGGGCAAGCCGCTGGCCGACA
 CGATGCGTCTGACACGCTGCAGGATTACTTCGGGCAGAGCAAGCCGCTGGGCCAGGATA
 CCCTGCTGCGCTCGCTCCTGGAGACCAACGAAATCCCCTCGCTTATCCTGTGGGGCCGC
 CGGGCTGCGGCAAGACCACTCTGGCTCACATCATAGCCAGCAACGAAAGAAACATAGCA
 TAAGGTTTGTGACATTATCTGCAACAAATGCCAAGACAAATGATGTGCGAGATGTCATAA
 ACAAAGCTCAAAATGAAAAGAGCTTTTTCAAAGGAAAACCATCTTTTTATTGATGAGA
 TTCATCGGTTCAATAAATCTCAGCAGGTCAACGCTGCTTCTGAGCCGCTGTCGAGTGA
 TTGTTCTTGAGAAGCTTCCAGTAGAGGCAATGGTACTATTTAATGCGAGCGATCAACT
 CCCTGGGAATCCACGTCCTAGACTCTAGCCGTCCTACTGACCCTGAGCCACAGCAGCA
 ACAGCAGCTCAGAGCCCGCATGTTTATAGAGGATAAAGCAGTAGACACCCCTGGCTTACC
 TCAGTGACGGTGACGCCGAGCTGGGTTGAACGACTGCAGCTGCGGGTCTGGCTAGGT
 TAAGCTTAGGAAGATGTTCTGTAAGAAGAGTGGGCAATCCTATTCTCCAGTAGAGTTC
 TGATCACAGAGAATGACGTGAAGGAGGGCTACAGCGATCCCACATTTTATGACCGGG
 CAGGTGAGGAGCATTACAACGATCTCCGCCCTGCACAAGTCCATGCGGGGCTCAGACC
 AGAACGCCTCCCTCTACTGGCTGGCTCGCATGCTCGAGGGAGGAGGACCCACTCTACG
 TGGCACGGAGGCTTGTGAGTTTGCAGCGAGGACATAGGTCTGGCAGACCCGCTGCGT
 TAACACAAGCGGTTGCTGCCTACCAAGGCTGTCATTTTATAGGCATGCCTGAATGTGAGG
 TGCTTCTGGCCCAGTGTGTGGTCTACTTTGCCAGAGCCCAAAGTCCATTGAGGTGAC
 GCGCCTACAACAACGTCAAAGCCTGCCTGAGGAACCAACAGGGGCCACTGCCCCCGTGC
 CCCTGCACCTGAGGAACGCGCCCACTAGGCTGATGAAGGATTTGGGCTATGGCAAAGGCT
 ACAAGTACAACCCCATGTACAGCGAGCCTGTGGATCAGGAGTACCTGCCTGAAGAGTTGA
 GGGGGGTAGATTTCTTCAAGCAGAGGAGGTGCTGACTCCTCAGGGCACGACAGCAGAAGG
 ATGTTGCTTTTTAAGGGAGGGCCAGAAAGAAAGTTAGTGGATTGCAAAGTTGGTTGCT
 GGTGGAAGTTAGAACAGACCAACATTTTGTGCCAGAAATTAAGAGTCCATAGGTGGAG
 GCGCAGTTCTTTGAAATAAATGTAACTTTGAAATTGTGTTCAATTTGCACTCGGTGCAG
 CGGTTATGCTTATGAAAATACCTGGCAGCTTTGTGCAATGAATTAATGTTATAAGGAATT
 ATCTATTTTGTACATAGTATTTAAGTCATAATGTCAATTCAGAATTCAGTTCTGTAGGATT
 TTCTTTTCTTTAAAAAATGTATATTCTGGGTAGTTTTAATTGGTAAAAAATGTAATTGT
 GATTTAATACTGCATAGTGTGTTGGGTATTTTTTTTATATGCAAAGGCTTACGAGCCAA
 TAAAATATTTCAAAGTAAAAAATAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_130395

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_130395.1</u> , <u>NP_569079.1</u>
RefSeq Size:	2592 bp
RefSeq ORF:	1923 bp
Locus ID:	56897
UniProt ID:	<u>Q96S55</u>
Cytogenetics:	6p25.2
Domains:	AAA, AAA, ZnF_Rad18
Gene Summary:	<p>Werner's syndrome is a rare autosomal recessive disorder characterized by accelerated aging that is caused by defects in the Werner syndrome ATP-dependent helicase gene (WRN). The protein encoded by this gene interacts with the exonuclease-containing N-terminal portion of the Werner protein. This protein has a ubiquitin-binding zinc-finger domain in the N-terminus, an ATPase domain, and two leucine zipper motifs in the C-terminus. It has sequence similarity to replication factor C family proteins and is conserved from E. coli to human. This protein likely accumulates at sites of DNA damage by interacting with polyubiquitinated proteins and also binds to DNA polymerase delta and increases the initiation frequency of DNA polymerase delta-mediated DNA synthesis. This protein also interacts with nucleoporins at nuclear pore complexes. Two transcript variants encoding different isoforms have been isolated for this gene. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (2) utilizes a different acceptor splice site for an internal coding exon, compared to transcript variant 1. This variant maintains the same reading frame but encodes an isoform (2) which is 25 aa shorter than isoform 1.</p>