

Product datasheet for **RC202950**

WHIP (WRNIP1) (NM_130395) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WHIP (WRNIP1) (NM_130395) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WHIP
Synonyms:	bA420G6.2; CFAP93; FAP93; WHIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC202950 representing NM_130395
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTGAGCGGGCCGGAAGACGACCCCTTCCTTTTCGAGCTGCACCAGGTGCAGTGCCCGTGTGCC
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 CAAAGGCTACAAGTACAACCCATGTACAGCGAGCCTGTGGATCAGGAGTACCTGCCTGAAGAGTTGAGG
 GGGTAGATTTCTTCAAGCAGAGGAGGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202950 representing NM_130395
Red=Cloning site Green=Tags(s)

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MEVSGPEDDPFLSQLHQVQPCVQCQMMPAAHINSHLDRCLLLHPAGHAEPAAAGSHRAGERAKGPSPPGAK
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RALAAEEIRQMLQGKPLADTMRPDTLQDYFGQSKAVGQDTLLRSLLETNEIPSLILWGPPGCGKTTLAHI
IASNSKKHSIRFVTLSATNAKTNDVRDVIKQAQNEKSFFKRKTILFIDEIHRFNKQQVNAALLSRCRVI
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GLQLAVLARLSSRKMFCCKSGQSYSPSRVLITENDVKEGLQRSHILYDRAGEEHYNCISALHKSMRGS
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GVDFFKQRR
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2958_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130395

ORF Size: 1920 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_130395.3](#)

RefSeq Size: 2592 bp

RefSeq ORF: 1923 bp

Locus ID: 56897

UniProt ID: [Q96S55](#)

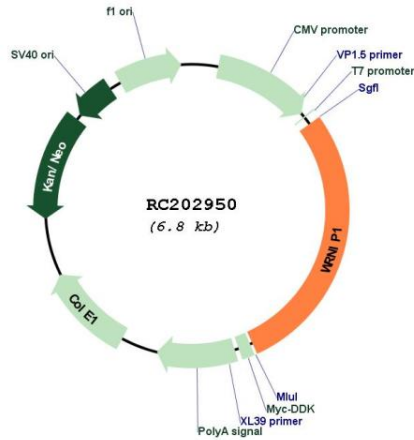
Cytogenetics: 6p25.2

Domains: AAA, AAA, ZnF_Rad18

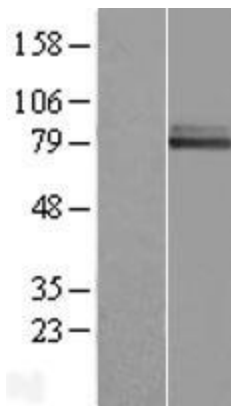
MW: 69.3 kDa

Gene Summary: 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]

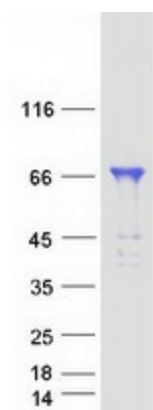
Product images:



Circular map for RC202950



Western blot validation of overexpression lysate (Cat# [LY408987]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202950 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WRNIP1 protein (Cat# [TP302950]). The protein was produced from HEK293T cells transfected with WRNIP1 cDNA clone (Cat# RC202950) using MegaTran 2.0 (Cat# [TT210002]).