

Product datasheet for SC319529

WFS1 (NM_006005) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WFS1 (NM_006005) Human Untagged Clone
Tag:	Tag Free
Symbol:	WFS1
Synonyms:	CTRCT41; WFRS; WFS; WFSL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006005.2
 CTCCCCTTTGCGCCGCGTTCAGCTGCTCCCGAACAACTTTTCTGCCGCCAGAGGCCCC
 AGGGCGTCGCAGCGCCGCTGCGGCCACTCACGGGCCGGATGGACTCCAACACTGCTCC
 GCTGGGCCCTCCTGCCACAGCCCCCGCCAGCACCGCAGCCCCAGGCGGTTCCCGACT
 CAATGCCACAGCCTCGTTGGAGCAGGAGGAGCGAAAGCCCCGAGCACCCGGACCCCA
 GGCTGGCCCTGGCCCTGGTGTAGAGACGCAGCGGCCCGCTGAACCCAGGCCAGCA
 TACCAGGAGCCGGAAAGAGCAGACGGCACCGGGCCTACAAAGGGAGACATGGAAATCCC
 CTTTGAAGAAAGTCTGGAGAGGGCAAGGCCGGGACCCCAAGGCACAGACTGAGGTGGG
 GAAGCACTACCTGCAGTTGGCCGGCAGACGGATGAAGAACTCAACAGCTGCACCGCTGT
 GGACTGGCTGGTCTCGCCGGAAGCAGGGCCGTGCGAGGCTGTGAAGCTGCTTCGCCG
 GTGCTTGGCGGACAGAAGAGGCATCACGTCCGAGAACGAACGGGAGGTGAGGCAGCTCTC
 TCCGAGACCGACTGGAGAGGGCCGTGCGCAAGGCAGCCCTGGTCATGTACTGGAAGCT
 CAACCCCAAGAAGAAGAAGCAGGTGGCCGTGGCGGAGCTGCTGGAGAATGTCGGCCAGGT
 CAACGAGCACGATGGAGGGGCGCAGCCAGGCCCGTGCCCAAGTCCCTGCAGAAGCAGAG
 GCGCATGCTGGAGCGCCTGGTCAGCAGCGAGTCCAAGAATACATCGCGCTGGATGACTT
 TGTGGAGATCACTAAGAAGTACGCCAAGGGCGTCATCCCCAGCAGCCTGTTCTGCAGGA
 CGACGAAGATGATGACGAGCTGGCGGGGAAGAGCCCTGAGGACCTGCCACTGCGTCTGAA
 GGTGGTCAAGTACCCCTGCACGCCATCATGGAGATCAAGGAGTACCTGATTGACATGGC
 CTCCAGGCAGGCATGCCTGGTGTCCACCATCATCCCCAGCACCATCAACCGCGCT
 CATCTTCTTTCATCGTCAGCAACCTCACCATCGACTTCTTCGCTTCTTCATCCCGCT
 GGTTCATCTTCACTGTCTTCACTCCTCATGGTATCTGCACCCTCAAGGTGTTCCAGGA
 CAGCAAGGCTGGGAGAATTCCGCACCCTCACCGACTGCTGCTGCGCTTCGAGCCCAA
 CCTGGATGTGGAGCAGGCCGAGGTCAACTTCGGCTGGAACACCTGGAGCCCTATGCCCA
 TTTCTGCTCTGTCTTCTTCGTATCTTCTCCTTCCCATCGCCAGCAAGGACTGCAT
 CCCCTGCTCGGAGCTGGCTGTCATACCGGCTTCTTACCCTGACCAGCTACCTGAGCCT
 GAGCACCCATGCAGAGCCCTACACGCGCAGGGCCCTGGCCACCGAGGTCACCGCCGCGCT
 GCTATCGTGCTGCCCTCCATGCCCTTGAATTGGCCCTACCTGAAGGTCCTTGGCCAGAC



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CTTCATCACCGTGCCTGTCGGCCACCTGGTCGTCTCAACGTCAGCGTCCCGTGCCTGCT
CTATGTCTACCTGCTCTATCTCTTCTTCCGCATGGCACAGCTGAGGAATTTCAAGGGCAC
CTACTGTACCTTGTGCCCTACCTGGTGTGCTTCATGTGGTGTGAGCTCTCCGTGGTCAT
CCTGCTGGAGTCCACCGGCTGGGGTGTCTCCGCGCTCCATCGGCTACTTCTCTTCTCT
CTTTGCCCTCCCATCTGGTGGCCGGCTGGCCCTGGTGGGCGTGTGCAGTTCGCCCCG
GTGGTTACGTCCTGGAGCTACCAAGATCGCAGTACCGTGGCGGTCTGTAGTGTGCC
CCTGCTGTTGCGCTGGTGGACCAAGCCAGCTTCTGTGGTGGGGATGGTGAAGTCCCT
GACGCGGAGCTCCATGGTCAAGCTCATCTGGTGTGGCTACGCGCCATCGTGCTGTTCTG
CTGTTTCTATGTGTACCCTCAGAGGGCATGAAGTCTACAACCTCCACACTGACCTGGCA
GCAGTATGGTGCCTGTGCGGGCCACGCGCTGGAAGGAGACCAACATGGCGCGCACCCA
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GTCGGCGGCTGAGGATGGTCCGCCACGAGGAGCTTCCAGTGCATGTTGCCATGAGGCCT
TTCCCCAGTGTGGCCCCAGCCCCGACAGGCATGCACCAGTCCCGCTGTGCCACGTGTGC
AGACTGTGGCTGCAGAGACCTTGGCACCATGTGTAGATTGCGTGGACCCGACAAAAGGGA
AGGCTGCTGCTGAATACCAAGTGTGTTGGGAATTGCATGCCATCTCCACCCTGAGCCTGA
CCTTTCTGAGTGACATGGGTGTGCCAGGCTAGACTAGGAGGTTCCGGTGTCTGAAAAAGC
ACTTTACAGATGAGATTCCCTCTCTCCCCACCTTCAAGCACCTGTTCCCTCTTCTTCT
TCTTTTGTGTTGGATTTGTTAAAAAACCAATAAGCATCTGTGTAACTCCAAAAA
AAAAAAAAAAAAAAAAAAAA
    
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Restriction Sites:

Please inquire

ACCN:

NM_006005

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_006005.2, NP_005996.1</u>
RefSeq Size:	3640 bp
RefSeq ORF:	2673 bp
Locus ID:	7466
UniProt ID:	<u>O76024</u>
Cytogenetics:	4p16.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>This gene encodes a transmembrane protein, which is located primarily in the endoplasmic reticulum and ubiquitously expressed with highest levels in brain, pancreas, heart, and insulinoma beta-cell lines. Mutations in this gene are associated with Wolfram syndrome, also called DIDMOAD (Diabetes Insipidus, Diabetes Mellitus, Optic Atrophy, and Deafness), an autosomal recessive disorder. The disease affects the brain and central nervous system. Mutations in this gene can also cause autosomal dominant deafness 6 (DFNA6), also known as DFNA14 or DFNA38. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2009]</p> <p>Transcript Variant: This variant (1) is the longer transcript. Variants 1 and 2 encode the same protein.</p>