

## Product datasheet for TP302901L

### WFS1 (NM\_006005) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens Wolfram syndrome 1 (wolframin) (WFS1), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202901 protein sequence Red=Cloning site Green=Tags(s)

MDSNTAPLGPSCPQPPAPQPQARSRLNATASLEQERSERPRAPGPQAGPGPGVRDAAAPAEPQAQHTRS  
RERADGTGPTKGDMEIPFEEVLERAKAGDPKAQTEVGKHYLQLAGDTDEELNSCTAVDWLVLAQGRRE  
AVKLLRRCLADRRGITSENEREVRQLSSETDLERA VRKAALVMYWKLNPKKKKQVAVAELLENVGQVNEH  
DGGAGPVPKSLQKQRRMLERLVSESKNYIALDDFVEITKKYAKGVIPSSLFLQDDEDDDELAKSPE  
DLPLRLKVVKYPLHAIMEIKEYLIDMASRAGMHWLSTIIPTHHINALIFFFVSNLTIDFFAFFIPLVIF  
YLSFISMVICTLKVFQDSKAWENFRTLTDLLRFEPNLDVEQAEVNFQWVNHLEPYAHFLLSVFFVIFSP  
IASKDCIPCSELAVITGFFVTSYLSLSTHAEPYTRRALATEVTAGLLSLLSPMLNWPYLKVLGQTFIT  
VPVGHVVLNVSVPCLLYVYLLYLFFRMAQLRNFKGTICYLVPYLVCFMWCESVILLESTGLGLLRAS  
IGYFLFLFALPILVAGLALVGVLFQFARWFTSLELTKIAVTVAVCSVPLLRWWTKASFSVGMVKSLTRS  
SMVKLILVWLTAVLFCWFYVYRSEG MKVYNSTLTWQQYGALCGPRAWKETNMARTQILCSHLEGHRVTW  
TGRFKYVRVTDIDNSAESAINMLPFFIGDWMRCLYGEAYPACSPGNTSTAEELCRLKLLAKHPCHIKKF  
DRYKFEITVGMFPSSGADGSR SREEDDVT KDIVLRASSEFKSVLLSLRQGS LIEFSTILEGRLGSKWPVF  
ELKAISCLNCMAQLSPTRRHVKIEHDWRSTVHGAVKFAFDFFFFPFLSAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

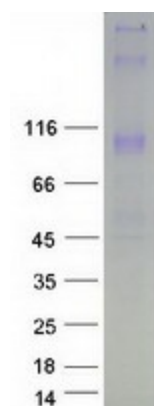
Tag:	C-Myc/DDK
Predicted MW:	100.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005996</a>
<b>Locus ID:</b>	7466
<b>UniProt ID:</b>	<a href="#">O76024</a> , <a href="#">A0A0S2Z4V6</a>
<b>RefSeq Size:</b>	3640
<b>Cytogenetics:</b>	4p16.1
<b>RefSeq ORF:</b>	2670
<b>Synonyms:</b>	CTRCT41; WFRS; WFS; WFSL
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, Transmembrane

### Product images:



Coomassie blue staining of purified WFS1 protein (Cat# [TP302901]). The protein was produced from HEK293T cells transfected with WFS1 cDNA clone (Cat# [RC202901]) using MegaTran 2.0 (Cat# [TT210002]).