

# Recombinant Human WFS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** WFS1-6412H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WFS1 MS Standard C13 and N15-labeled recombinant protein (NP_005996) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</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. |
| <b>Molecular Mass</b>   | 100.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MDSNTAPLGPSCPQPPAPQPQARSRLNATASLEQERSERPRAPGPQAGPGPGV<br>RDAAAPAEPQAQHTRSRRERADGTGPTKGDMEIPFEEVLERAKAGDPKAQTEVGKH<br>YLQLAGDTDEELNSCTAVDWLVLAQKGRREAVKLLRRCLADRRGITSENEREVRQ<br>LSSETDLERA VRKAALVMYWKLNPKKKKQVAVAELENVGVNEHDGGAQPGPVP<br>KSLQKQRRMLERLVSSSESKNYIALDDFVEITKKYAKGVIPSSLFLQDDEDDDELAGKS                                                                                                                                                                                                                                                                                                                                                |

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PEDLPLRLKVVKYPLHAIMEIKEYLIDMASRAGMHWLSTIIPTHHINALIFFFIVSNLTID  
 FFAFFIPLVIFYLSFISMVICTLKVFQDSKAWENFRTLTDLLRFEPNLDVEQAEVNFG  
 WNHLEPYAHFLLSVFFVIFSFPISKDCIPCSELAVITGFFTVTSYLSLSTHAEPYTRRA  
 LATEVTAGLLSLLPSMPLNWPYLVGLGQTFITVPVGHLLVNLVSVPCLLYVYLLYLFF  
 RMAQLRNFKGTTCYLVPLYVCFMWCELSVILLESGLGLLRASIGYFLFLFALPILVA  
 GLALVGVLLQFARWFTSLELTKIAVTVAVCSVPLLLRWWTASFSVVGMMVKSLSLTRSSM  
 VKLILVWLTAIVLFCWFYVYRSEGMKVYNSTLTWQQYGALCGPRAWKETNMARTQI  
 LCSHLEGHRVTWTGRFKYVRVTDIDNSAESAINMLPFFIGDWMRCLYGEAYPACSP  
 GNTSTAEELCRLKLLAKHPCHIKKFDYKFEITVGMPFSSGADGSRSEEDDVTKD  
 IVLRASSEFKSVLLSLRQGSLEFSTILEGRLGSKWPVFELKAISCLNCMAQLSPTRRH  
 VKIEHDWRSTVHGAVKFAFDFFFFPFLSAATRTRPLEQKLISEEDLAANDILDYKDDD  
 DKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [WFS1 wolframin ER transmembrane glycoprotein \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [WFS1](#)

**Synonyms** WFS1; Wolfram syndrome 1 (wolframin); DFNA6, DFNA14, DFNA38; wolframin;

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DIDMOAD; WFS; WFRS; WFSL; FLJ51211;

**Gene ID** 7466

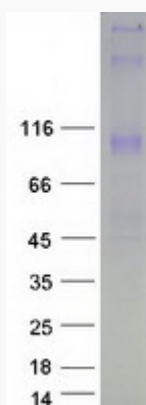
**mRNA Refseq** NM\_006005

**Protein Refseq** NP\_005996

**MIM** 606201

**UniProt ID** O76024

**SDS-PAGE**



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