

Datasheet for ABIN3110919 WFS1 Protein (AA 1-890) (Strep Tag)



Overviev	

Quantity:	250 μg
Target:	WFS1
Protein Characteristics:	AA 1-890
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WFS1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Brand:	AliCE®
Sequence:	MDSNTAPLGP SCPQPPPAPQ PQARSRLNAT ASLEQERSER PRAPGPQAGP GPGVRDAAAP
	AEPQAQHTRS RERADGTGPT KGDMEIPFEE VLERAKAGDP KAQTEVGKHY LQLAGDTDEE
	LNSCTAVDWL VLAAKQGRRE AVKLLRRCLA DRRGITSENE REVRQLSSET DLERAVRKAA
	LVMYWKLNPK KKKQVAVAEL LENVGQVNEH DGGAQPGPVP KSLQKQRRML ERLVSSESKN
	YIALDDFVEI TKKYAKGVIP SSLFLQDDED DDELAGKSPE DLPLRLKVVK YPLHAIMEIK
	EYLIDMASRA GMHWLSTIIP THHINALIFF FIVSNLTIDF FAFFIPLVIF YLSFISMVIC TLKVFQDSKA
	WENFRTLTDL LLRFEPNLDV EQAEVNFGWN HLEPYAHFLL SVFFVIFSFP IASKDCIPCS
	ELAVITGFFT VTSYLSLSTH AEPYTRRALA TEVTAGLLSL LPSMPLNWPY LKVLGQTFIT
	VPVGHLVVLN VSVPCLLYVY LLYLFFRMAQ LRNFKGTYCY LVPYLVCFMW CELSVVILLE
	STGLGLLRAS IGYFLFLFAL PILVAGLALV GVLQFARWFT SLELTKIAVT VAVCSVPLLL
	RWWTKASFSV VGMVKSLTRS SMVKLILVWL TAIVLFCWFY VYRSEGMKVY NSTLTWQQYG

ALCGPRAWKE TNMARTQILC SHLEGHRVTW TGRFKYVRVT DIDNSAESAI NMLPFFIGDW MRCLYGEAYP ACSPGNTSTA EEELCRLKLL AKHPCHIKKF DRYKFEITVG MPFSSGADGS RSREEDDVTK DIVLRASSEF KSVLLSLRQG SLIEFSTILE GRLGSKWPVF ELKAISCLNC MAQLSPTRRH VKIEHDWRST VHGAVKFAFD FFFFFLSAA

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- · Made in Germany from design to production by highly experienced protein experts.
- · Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- · State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- · The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®). Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). Grade: custom-made **Target Details** WFS1 Target: Alternative Name: WFS1 (WFS1 Products) Background: Wolframin, FUNCTION: Participates in the regulation of cellular Ca(2+) homeostasis, at least partly, by modulating the filling state of the endoplasmic reticulum Ca(2+) store (PubMed:16989814). Negatively regulates the ER stress response and positively regulates the stability of V-ATPase subunits ATP6V1A and ATP1B1 by preventing their degradation through an unknown proteasome-independent mechanism (PubMed:23035048). $\{ ECO: 0000269 | PubMed: 16989814, ECO: 0000269 | PubMed: 23035048 \}.$ Molecular Weight: 100.3 kDa UniProt: 076024 Sensory Perception of Sound, Carbohydrate Homeostasis, ER-Nucleus Signaling, Negative Pathways: Regulation of intrinsic apoptotic Signaling, SARS-CoV-2 Protein Interactome **Application Details** In addition to the applications listed above we expect the protein to work for functional studies Application Notes: as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for

protein production are removed, leaving only the protein production machinery and the

components needed for protein production (amino acids, cofactors, etc.) are added to produce

something that functions like a cell, but without the constraints of a living system - all that's

mitochondria to drive the reaction. During our lysate completion steps, the additional

Application Details

	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months