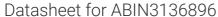
# antibodies .- online.com





## TCF7L2 Protein (AA 1-459) (His tag)



**Image** 



Go to Product page

#### Overview

Quantity:	1 mg
Target:	TCF7L2
Protein Characteristics:	AA 1-459
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TCF7L2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### **Product Details**

#### Sequence:

MPQLNGGGGD DLGANDELIS FKDEGEQEEK NSENSSAERD LADVKSSLVN ESETNQDSSS
DSEAERRPPP RSESFRDKSR ESLEEAAKRQ DGGLFKGPPY PGYPFIMIPD LTSPYLPNGS
LSPTARTYLQ MKWPLLDVQA GSLQSRQTLK DARSPSPAHI VSNKVPVVQH PHHVHPLTPL
ITYSNEHFTP GNPPPHLPAD VDPKTGIPRP PHPPDISPYY PLSPGTVGQI PHPLGWLVPQ
QGQPVYPITT GGFRHPYPTA LTVNASMSRF PPHMVPPHHT LHTTGIPHPA IVTPTVKQES
SQSDVGSLHS SKHQDSKKEE EKKKPHIKKP LNAFMLYMKE MRAKVVAECT LKESAAINQI
LGRRWHALSR EEQAKYYELA RKERQLHMQL YPGWSARDNY GKKKKRKRDK QPGETNEHSE
CFLNPCLSLP PITDLSAPKK CRARFGLDQQ NNWCGPCSL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

#### Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Tcf7l2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process

to ensure crystallization grade.

• 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its

specific reference buffer.

The concentration of the protein is calculated using its specific observation coefficient. We use

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

#### **Target Details**

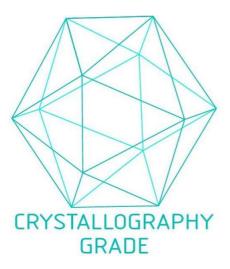
Target: TCF7L2

Alternative Name:

Tcf7l2 (TCF7L2 Products)

### **Target Details**

Background:	Participates in the Wnt signaling pathway and modulates MYC expression by binding to its
	promoter in a sequence-specific manner. Acts as repressor in the absence of CTNNB1, and as
	activator in its presence. Activates transcription from promoters with several copies of the Tcf
	motif CCTTTGATC in the presence of CTNNB1. TLE1, TLE2, TLE3 and TLE4 repress
	transactivation mediated by TCF7L2/TCF4 and CTNNB1. Expression of dominant-negative
	mutants results in cell-cycle arrest in G1 (By similarity). Necessary for the maintenance of the
	epithelial stem-cell compartment of the small intestine. (ECO:0000250,
	ECO:0000269 PubMed:21856776, ECO:0000269 PubMed:9697701}.
Molecular Weight:	52.2 kDa Including tag.
UniProt:	Q924A0
Pathways:	WNT Signaling, Positive Regulation of Peptide Hormone Secretion, Peptide Hormone
	Metabolism, Regulation of Hormone Metabolic Process, Carbohydrate Homeostasis, Stem Cell
	Maintenance, Protein targeting to Nucleus
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process