

Datasheet for ABIN7564861  
**TCF7L2 Protein (AA 1-459) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TCF7L2
Protein Characteristics:	AA 1-459
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TCF7L2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Tcf7l2 Protein expressed in mammalian cells.
Sequence:	MPQLNGGGGD DLGANDELIS FKDEGEQEEK NSENSAERD LADVKSSLVN ESETNQDSSS DSEAERRPPP RSEFRDKSR ESLEEAQRQ DGGLFKGPPY PGYPFIMIPD LTSPYLPNGS LSPTARTYLQ MKWPLLDVQA GSLQSRQTLK DARSPSPAHI VSNKVPVVQH PHHVHPLTPL ITYSNEHFTP GNPPHLPAD VDPKTGIPRP PHPPDISPY PLSPGTVGQI PHPLGWLVPQ QGQPVYPITT GGFRHPYPTA LTVNASMSRF PPHMVPPHHT LHTTGIPHPA IVTPTVKQES SQSDVGLSHS SKHQDSKKEE EKKKPHIKKP LNAFMLYMK MRAKVVAECT LKESAAINQI LGRRWHALSR EEQAKYYELA RKERQLHMQL YPGWSARDNY GKKKKRKRDK QPGETNEHSE CFLNPCLSLP PITDLSAPKK CRARFGLDQQ NNWCGPCSL <b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b>

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

## Target Details

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### Target:

TCF7L2

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### Alternative Name:

Tcf7l2 ([TCF7L2 Products](#))

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### Background:

Transcription factor 7-like 2 (HMG box transcription factor 4) (T-cell-specific transcription factor 4) (T-cell factor 4) (TCF-4) (mTCF-4),FUNCTION: Participates in the Wnt signaling pathway and modulates MYC expression by binding to its promoter in a sequence-specific manner. Acts as a 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}.

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### Molecular Weight:

51.2 kDa

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### UniProt:

[Q924A0](#)

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### Pathways:

[WNT Signaling, Positive Regulation of Peptide Hormone Secretion, Peptide Hormone](#)

## Target Details

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Metabolism, Regulation of Hormone Metabolic Process, Carbohydrate Homeostasis, Stem Cell Maintenance, Protein targeting to Nucleus

## Application Details

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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 guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition 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: 12 months