

Datasheet for ABIN7555748
TCF7L2 Protein (AA 1-619) (His tag)



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Overview

Quantity:	1 mg
Target:	TCF7L2
Protein Characteristics:	AA 1-619
Origin:	Human
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 mammalien cells.
Sequence:	MPQLNGGGGD DLGANDELIS FKDEGEQEEK SSENSAERD LADVKSSLVN ESETNQNSSS DSEAERRPPP RSEFRDKSR ESLEEAQRQ DGGLFKGPPY PGYPFIMIPD LTSPYLPNGS LSPTARTLHF QSGSTHYSAY KTIEHQIAVQ YLQMKWPLLD VQAGSLQSRQ ALKDARSPSP AHIVSNKVPV VQHPHHVHPL TPLITYSNEH FTPGNPPPHL PADVDPKTGI PRPPHPPDIS PYYPLSPGTV GQIPHPLGWL VPQQGQPVYP ITTGGFRHPY PTALTVNASM SRFPPHMVPP HHTLHTTGIP HPAIVTPTVK QESSQSDVGS LHSSKHQDSK KEEEEKKKPHI KKPLNAFMLY MKEMRAKVVA ECTLKESAAI NQILGRRWHA LSREEQAKYY ELARKERQLH MQLYPGWSAR DNYGKKKKRK RDKQPGETNE HSECFLNPCL SLPPITDLA PPKCRARFGL DQQNNWCGPC RRKKKCVRYI QGEGSCLSPD SSDGSLDSP PPSPNLLGSP PRDAKSQTEQ TQPLSLSLKP DPLAHLMMMP PPPALLLAEA THKASALCPN GALDLPPAAL QPAAPSSSIA QPSTSSLHSH SSLAGTQPQP LSLVTKSLE 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.

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.

Purity:

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

Grade:

custom-made

Target Details

Target:

TCF7L2

Alternative Name:

TCF7L2 ([TCF7L2 Products](#))

Background:

Transcription factor 7-like 2 (HMG box transcription factor 4) (T-cell-specific transcription factor 4) (T-cell factor 4) (TCF-4) (hTCF-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 5'-CCTTTGATC-3' 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. Necessary for the maintenance of the epithelial stem-cell compartment of the small intestine.

{ECO:0000269|PubMed:12408868, ECO:0000269|PubMed:12727872,

ECO:0000269|PubMed:19443654, ECO:0000269|PubMed:22699938,

ECO:0000269|PubMed:9727977}.

Target Details

Molecular Weight:	67.9 kDa
UniProt:	Q9NQB0
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 guarantee though.
Restrictions:	For Research Use only

Handling

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