

Datasheet for ABIN7555765  
**TCF3 Protein (AA 1-654) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TCF3
Protein Characteristics:	AA 1-654
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TCF3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat TCF3 Protein expressed in mammalien cells.
Sequence:	<p>MNQPQRMAPV GTDKELSDLL DFSMMFPLPV TNGKGRPASL AGAQFGGSGSL EDRPSSGSWG            SGDQSSSSFD PSRTFSEGTH FTESHSSLSS STFLGPGLGG KSGERGAYAS FGRDAGVGGL            TQAGFLSGEL ALNSPGPLSP SGMKGTQYQY PSYSGSSRRR AADGSLDTQP KVKRKPVPGL            PSSVYPPSSG EDYGRDATAY PSAKTPSSTY PAFYVADGS LHPSAELWSP PGQAGFGPML            GGGSSPLPLP PGSGPVGSSG SSSTFGGLHQ HERMGYQLHG AEVNGGLPSA SSFSSAPGAT            YGGVSSHTPP VSGADSLGSG RGTAGSSGD ALGKALASIY SPDHSSNNFS SSPSTPVGSP            QQLAGTSQWP RAGAPGALSP SYDGGLHGLQ SKIEDHLDEA IHVLRSHAVG TAGDMHTLLP            GHGALASGFT GPMSLGGRHA GLVGGSHPED GLAGSTSLMH NHAALPSQPG TLPDLRPPD            SYSGLGRAGA TAAASEIKRE EKEDEENTSA ADHSEEEKKE LKAPRARTSP DEDEDLLPP            EQKAEREKER RVANNARERL RVRDINEAFK ELGRMCQLHL NSEKPTKLL ILHQAVSVIL            NLEQQVRERN LNPKAACLKR REEEKVSGVV GDPQMVLSAP HPGLSEAHNP AGHM <b>Sequence</b></p>

**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

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### Target:

TCF3

### Alternative Name:

TCF3 ([TCF3 Products](#))

### Background:

Transcription factor E2-alpha (Class B basic helix-loop-helix protein 21) (bHLHb21) (Immunoglobulin enhancer-binding factor E12/E47) (Immunoglobulin transcription factor 1) (Kappa-E2-binding factor) (Transcription factor 3) (TCF-3) (Transcription factor ITF-1),FUNCTION: Transcriptional regulator involved in the initiation of neuronal differentiation and mesenchymal to epithelial transition (By similarity). Heterodimers between TCF3 and tissue-specific basic helix-loop-helix (bHLH) proteins play major roles in determining tissue-specific cell fate during embryogenesis, like muscle or early B-cell differentiation (By similarity). Together with TCF15, required for the mesenchymal to epithelial transition (By similarity). Dimers bind DNA on E-box motifs: 5'-CANNTG-3' (By similarity). Binds to the kappa-E2 site in the kappa immunoglobulin gene enhancer (PubMed:2493990). Binds to IEB1 and IEB2, which

## Target Details

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are short DNA sequences in the insulin gene transcription control region (By similarity). {ECO:0000250|UniProtKB:P15806, ECO:0000269|PubMed:2493990}., FUNCTION: [Isoform E47]: Facilitates ATOH7 binding to DNA at the consensus sequence 5'-CAGGTG-3', and positively regulates transcriptional activity. {ECO:0000269|PubMed:31696227}.

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Molecular Weight: 67.6 kDa

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UniProt: [P15923](#)

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Pathways: [WNT Signaling](#), [Stem Cell Maintenance](#), [Regulation of Muscle Cell Differentiation](#), [Production of Molecular Mediator of Immune Response](#)

## 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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months