

Datasheet for ABIN7562144  
**ATF6 Protein (AA 1-656) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ATF6
Protein Characteristics:	AA 1-656
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATF6 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Atf6 Protein expressed in mammalian cells.
Sequence:	MESPFSPVLP HGPDEDWEST LFAELGYFTD TDDVHFDAAH EAYENNFHDL NFDLDMMPWE SDLWSPGSHF CSDMKAEPQP LSPASSCSI SSPRSTDSCS STQHVPEELD LLSSSQSPLS LYGDSCNSPS SVEPLKEEKP VTGPGNKTEH GLTPKKKIQM SSKPSVQPKP LLLPAAPKTQ TNASVPAKAI IIQTLPALMP LAKQQSIISI QPAPTKGQTV LLSQPTVVQL QSPAVLSSAQ PVLAVTGGAA QLPNHVVNVL PAPVVSSPVN GKLSVTKPVL QSATRSMGSD IAVLRRQQRN IKNRESACQS RKKKKEYMLG LEARLKAALS ENEQLKKENG SLKRQLDEVV SENQRLKVPS PKRRAVCVMI VLAFILNLYG PMSMLEQESR RVKPSVSPAN QRRHLLFEFS KEVKDTSDDG NQKDSYSYDH SVSNDKALMV LSEEPLLYMP PPPCQPLINT TESLRLNHEL RGWVHRHEVE RTKSRRMTNS QQKARILQGA LEQGSNSQLM AVQYTETTSI SRNSGSELQV YYASPGSYQG FFDAIRRRGD TFYVVSFRRD HLLLPATTHN KTTRPKMSIV LPAININDNV INGQDYEVMM QIDCQVMDTR ILHIKSSSVP PYLRDHQRNQ TSTFFGSPPT TTETTHVVST IPESLQ <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression</b>

**system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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Target: ATF6

Alternative Name: Atf6 ([ATF6 Products](#))

Background: Cyclic AMP-dependent transcription factor ATF-6 alpha (cAMP-dependent transcription factor ATF-6 alpha) (Activating transcription factor 6 alpha) (ATF6-alpha) [Cleaved into: Processed cyclic AMP-dependent transcription factor ATF-6 alpha],FUNCTION: [Cyclic AMP-dependent transcription factor ATF-6 alpha]: Precursor of the transcription factor form (Processed cyclic AMP-dependent transcription factor ATF-6 alpha), which is embedded in the endoplasmic reticulum membrane. Endoplasmic reticulum stress promotes processing of this form, releasing the transcription factor form that translocates into the nucleus, where it activates transcription of genes involved in the unfolded protein response (UPR).  
{ECO:0000250|UniProtKB:P18850}, FUNCTION: [Processed cyclic AMP-dependent transcription

## Target Details

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factor ATF-6 alpha]: Transcription factor that initiates the unfolded protein response (UPR) during endoplasmic reticulum stress by activating transcription of genes involved in the UPR. Binds DNA on the 5'-CCAC[GA]-3' half of the ER stress response element (ERSE) (5'-CCAAT-N(9)-CCAC[GA]-3') and of ERSE II (5'-ATTGG-N-CCACG-3'). Binding to ERSE requires binding of NF- $\kappa$ B to ERSE. Could also be involved in activation of transcription by the serum response factor. May play a role in foveal development and cone function in the retina.  
{ECO:0000250|UniProtKB:P18850}.

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Molecular Weight: 72.7 kDa

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UniProt: [F6VAN0](#)

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Pathways: [ER-Nucleus Signaling](#), [Unfolded Protein Response](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. 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