

Datasheet for ABIN7552184  
**ANKZF1 Protein (AA 1-726) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ANKZF1
Protein Characteristics:	AA 1-726
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKZF1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant ANKZF1 Protein expressed in mammalian cells.
Sequence:	MSPAPDAAPA PASISLFDLS ADAPVFQGLS LVSHAPGEAL ARAPRTSCSG SGERESPERK LLQGPMDisE KLFCSTCDQT FQNHQEQREH YKLDWHRFNL KQRLKDKPLL SALDFEKQSS TGDLSISGS ESDSASEED LQTLDRERAT FEKLSRPPGF YPHRVLFQNA QGQFLYAYRC VLGPHQDPPE EAELLQNLQ SRGPRDCVVL MAAAGHFAGA IFQGREVVTH KTFHRYTVRA KRGTAQGLRD ARGGPSHSAG ANLRRYNEAT LYKDVRDLLA GPSWAKALEE AGTILLRAPR SGRSLFFGGK GAPLQRGDPR LWDIPLATRR PTFQELQRVL HKLTTLHVYE EDPREAVRLH SPQTHWKTVR EERKKPTEEE IRKICRDEKE ALGQNEESPK QGSGSEGEDG FQVELELVEL TVGTLDLCES EVLPKRRRRK RNKKEKSRDQ EAGAHRTLLQ QTQEEEPSTQ SSQAVAAPLG PLLDEAKAPG QPELWNALLA ACRAAGDVGVL KLQLAPSPAD PRVLSLLSAP LGSGGFLLH AAAAAGRGSV VRLLEAGAD PTVQDSRARP PYTVAADKST RNEFRRFMEK NPDAYDYNKA QVPGPLPEM EARQATRKRE QKAARRQREE QQQRQEQEE REREEQRRFA ALSDREKRAL AAERRLAAQL GAPTSPIDS AIVNTRRCWS CGASLQGLTP FHYLDFSFCS TRCLQDHRQ

## Product Details

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AGRPSS **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.**

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: ANKZF1

Alternative Name: ANKZF1 ([ANKZF1 Products](#))

Background: TRNA endonuclease ANKZF1 (EC 3.1.-.-) (Ankyrin repeat and zinc finger domain-containing protein 1) (Zinc finger protein 744),FUNCTION: Endonuclease that cleaves polypeptidyl-tRNAs downstream of the ribosome-associated quality control (RQC) pathway to release incompletely synthesized polypeptides for degradation (PubMed:30244831, PubMed:29632312, PubMed:31011209). The RQC pathway disassembles aberrantly stalled translation complexes to recycle or degrade the constituent parts (PubMed:30244831, PubMed:29632312, PubMed:31011209). ANKZF1 acts downstream disassembly of stalled ribosomes and specifically cleaves off the terminal 3'-CCA nucleotides universal to all tRNAs from polypeptidyl-

## Target Details

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tRNAs, releasing (1) ubiquitinated polypeptides from 60S ribosomal subunit for degradation and (2) cleaved tRNAs (PubMed:31011209). ANKZF1-cleaved tRNAs are then repaired and recycled by ELAC1 and TRNT1 (PubMed:31011209, PubMed:32075755). Also plays a role in the cellular response to hydrogen peroxide and in the maintenance of mitochondrial integrity under conditions of cellular stress (PubMed:28302725). {ECO:0000269|PubMed:28302725, ECO:0000269|PubMed:29632312, ECO:0000269|PubMed:30244831, ECO:0000269|PubMed:31011209, ECO:0000269|PubMed:32075755}.

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Molecular Weight: 80.9 kDa

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UniProt: [Q9H8Y5](#)

## 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