

Datasheet for ABIN7564950

## Ataxin 3 Protein (ATXN3) (AA 1-355) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	Ataxin 3 (ATXN3)
Protein Characteristics:	AA 1-355
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ataxin 3 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Atxn3 Protein expressed in mammalian cells.
Sequence:	<p>MESIFHEKQE GSLCAQHCLN NLLQGEYFSP VELSSIAHQL DEERLRMAE GGVTSSEDYRT  FLQQPSGNMD DSGFFSIQVI SNALKVWGLE LILFNSPEYQ RLRIDPINER SFICNYKEHW  FTVRKLGKQW FNLNSLLTGP ELISDTYLAL FLAQLQQEGY SIFVVKGDLP DCEADQLLQM  IKVQQMHRPK LIGEELAHK EQSALKADLE RVLEAADGSG IFDEDEDDLQ RALAISRQEI  DMEDEEADLR RAIQLSMQGS SRSMCENSPQ TSSPDLSSSE LRRRREAYFE KQQQQQQEVD  RPGPLSYPRE RPTTSSGGRR SDQGGDAVSE EDMLRAAVTM SLETAKDNLK AERKK</p> <p><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></p>
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:

## Product Details

---

- 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

---

Target:	Ataxin 3 (ATXN3)
Alternative Name:	Atxn3 ( <a href="#">ATXN3 Products</a> )
Background:	<p>Ataxin-3 (EC 3.4.19.12) (Machado-Joseph disease protein 1 homolog),FUNCTION: Deubiquitinating enzyme involved in protein homeostasis maintenance, transcription, cytoskeleton regulation, myogenesis and degradation of misfolded chaperone substrates (By similarity). Binds long polyubiquitin chains and trims them, while it has weak or no activity against chains of 4 or less ubiquitins (By similarity). Involved in degradation of misfolded chaperone substrates via its interaction with STUB1/CHIP: recruited to monoubiquitinated STUB1/CHIP, and restricts the length of ubiquitin chain attached to STUB1/CHIP substrates and preventing further chain extension (PubMed:21855799). Interacts with key regulators of transcription and represses transcription: acts as a histone-binding protein that regulates transcription (By similarity). Acts as a negative regulator of mTORC1 signaling in response to amino acid deprivation by mediating deubiquitination of RHEB, thereby promoting RHEB inactivation by the TSC-TBC complex (By similarity). Regulates autophagy via the deubiquitination of 'Lys-402' of BECN1 leading to the stabilization of BECN1 (PubMed:28445460). {ECO:0000250 UniProtKB:P54252, ECO:0000269 PubMed:21855799,</p>

## Target Details

ECO:0000269|PubMed:28445460}.

Molecular Weight: 40.5 kDa

UniProt: [Q9CVD2](#)

## Application Details

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.

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