

Datasheet for ABIN7548275

## HMBOX1 Protein (AA 1-420) (His tag)



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### Overview

Quantity:	1 mg
Target:	HMBOX1
Protein Characteristics:	AA 1-420
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HMBOX1 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant HMBOX1 Protein expressed in mammalian cells.
Sequence:	<p>MLSSFPVLL ETMSHYTDEP RFTIEQIDLL QRLRRTGMTK HEILHALET L DRLDQEHS DK</p> <p>FGRSSY GGS SYGNSTNNVP ASSSTATAST QTQHSGMSPS PSNSYDTSPQ PCTTNQNGRE</p> <p>NNERLST SNG KMSPTRYHAN SMGQRSYSFE ASEEDLDVDD KVEELMRRDS SVIKEEIKAF</p> <p>LANRRISQAV VAQVTGISQS RISHWLLQQG SDLSEQKKRA FYRWYQLEKT NPGATLSMRP</p> <p>APIPIEDPEW RQTPPPVSAT SGTFRLLRRGS RFTWRKECLA VMESYFNENQ YPDEAKREEI</p> <p>ANACNAVIQK PGKKLSDLER VTS LKVYNWF ANRRKEIKRR ANIEAAILES HGIDVQSPGG</p> <p>HSNSDDVDGN DYSEQDDSTS HSDHQDPISL AVEMAAVNHT ILALARQGAN EIKTEALDDD</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.</b></p> <p><b>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.

## Product Details

### 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)
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Grade:	custom-made
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## Target Details

Target:	HMBOX1
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Alternative Name:	HMBOX1 ( <a href="#">HMBOX1 Products</a> )
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Background:	<p>Homeobox-containing protein 1 (Homeobox telomere-binding protein 1) (Telomere-associated homeobox-containing protein 1),FUNCTION: Binds directly to 5'-TTAGGG-3' repeats in telomeric DNA (PubMed:23813958, PubMed:23685356). Associates with the telomerase complex at sites of active telomere processing and positively regulates telomere elongation (PubMed:23685356). Important for TERT binding to chromatin, indicating a role in recruitment of the telomerase complex to telomeres (By similarity). Also plays a role in the alternative lengthening of telomeres (ALT) pathway in telomerase-negative cells where it promotes formation and/or maintenance of ALT-associated promyelocytic leukemia bodies (APBs) (PubMed:23813958). Enhances formation of telomere C-circles in ALT cells, suggesting a possible role in telomere recombination (PubMed:23813958). Might also be involved in the DNA damage response at telomeres (PubMed:23813958). {ECO:0000250 UniProtKB:Q8BJA3, ECO:0000269 PubMed:23685356, ECO:0000269 PubMed:23813958}.</p>
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Molecular Weight:	47.3 kDa
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## Target Details

UniProt: [Q6NT76](#)

## 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