

Datasheet for ABIN7558030  
**KLHDC10 Protein (AA 1-439) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	KLHDC10
Protein Characteristics:	AA 1-439
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLHDC10 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Klhdc10 Protein expressed in mammalian cells.
Sequence:	<p>M<sup>S</sup>A<sup>A</sup>A<sup>Q</sup>G<sup>W</sup>D<sup>R</sup>N R<sup>R</sup>R<sup>R</sup>G<sup>G</sup>G<sup>A</sup>A<sup>G</sup>G A<sup>S</sup>G<sup>V</sup>S<sup>G</sup>A<sup>G</sup>A<sup>A</sup> G<sup>G</sup>G<sup>R</sup>G<sup>T</sup>G<sup>Q</sup>L<sup>N</sup> R<sup>F</sup>V<sup>Q</sup>L<sup>S</sup>G<sup>R</sup>P<sup>H</sup> L<sup>P</sup>G<sup>K</sup>K<sup>K</sup>I<sup>R</sup>W<sup>D</sup> P<sup>V</sup>R<sup>R</sup>R<sup>R</sup>F<sup>I</sup>Q<sup>S</sup>C P<sup>I</sup>I<sup>R</sup>I<sup>P</sup>N<sup>R</sup>F<sup>L</sup> R<sup>G</sup>H<sup>R</sup>P<sup>P</sup>P<sup>A</sup>R<sup>S</sup> G<sup>H</sup>R<sup>C</sup>V<sup>A</sup>D<sup>N</sup>T<sup>N</sup> L<sup>Y</sup>V<sup>F</sup>G<sup>G</sup>Y<sup>N</sup>P<sup>D</sup> Y<sup>D</sup>E<sup>S</sup>G<sup>G</sup>P<sup>D</sup>N<sup>E</sup> D<sup>Y</sup>P<sup>L</sup>F<sup>R</sup>E<sup>L</sup>W<sup>R</sup> Y<sup>H</sup>F<sup>A</sup>T<sup>G</sup>V<sup>W</sup>H<sup>Q</sup> M<sup>G</sup>T<sup>D</sup>G<sup>Y</sup>M<sup>P</sup>R<sup>E</sup> L<sup>A</sup>S<sup>M</sup>S<sup>L</sup>V<sup>L</sup>H<sup>G</sup> N<sup>N</sup>L<sup>L</sup>V<sup>F</sup>G<sup>G</sup>T<sup>G</sup> I<sup>P</sup>F<sup>G</sup>E<sup>S</sup>N<sup>G</sup>N<sup>D</sup> V<sup>H</sup>V<sup>C</sup>N<sup>V</sup>K<sup>Y</sup>K<sup>R</sup> W<sup>A</sup>L<sup>L</sup>S<sup>C</sup>R<sup>G</sup>K<sup>R</sup> P<sup>S</sup>R<sup>I</sup>Y<sup>G</sup>Q<sup>A</sup>M<sup>A</sup> L<sup>I</sup>N<sup>G</sup>S<sup>L</sup>Y<sup>V</sup>F<sup>G</sup> G<sup>T</sup>T<sup>G</sup>Y<sup>I</sup>Y<sup>S</sup>T<sup>D</sup> L<sup>H</sup>K<sup>L</sup>D<sup>L</sup>N<sup>T</sup>M<sup>V</sup> W<sup>T</sup>Q<sup>L</sup>K<sup>P</sup>N<sup>N</sup>L<sup>S</sup> C<sup>D</sup>L<sup>P</sup>E<sup>E</sup>R<sup>Y</sup>R<sup>H</sup> E<sup>I</sup>A<sup>H</sup>D<sup>G</sup>Q<sup>R</sup>I<sup>Y</sup> I<sup>L</sup>G<sup>G</sup>G<sup>T</sup>S<sup>W</sup>T<sup>A</sup> Y<sup>S</sup>L<sup>N</sup>K<sup>I</sup>H<sup>A</sup>Y<sup>N</sup> L<sup>E</sup>T<sup>N</sup>A<sup>W</sup>E<sup>E</sup>I<sup>A</sup> T<sup>K</sup>P<sup>H</sup>E<sup>K</sup>I<sup>G</sup>I<sup>F</sup>P A<sup>A</sup>R<sup>R</sup>C<sup>H</sup>S<sup>C</sup>V<sup>Q</sup> I<sup>K</sup>N<sup>D</sup>V<sup>F</sup>I<sup>C</sup>G<sup>G</sup> Y<sup>N</sup>G<sup>E</sup>V<sup>I</sup>L<sup>G</sup>D<sup>I</sup> W<sup>K</sup>L<sup>N</sup>L<sup>Q</sup>T<sup>F</sup>Q<sup>W</sup> V<sup>K</sup>L<sup>P</sup>A<sup>T</sup>M<sup>P</sup>E<sup>P</sup> V<sup>Y</sup>F<sup>H</sup>C<sup>A</sup>A<sup>V</sup>T<sup>P</sup> A<sup>G</sup>C<sup>M</sup>Y<sup>I</sup>H<sup>G</sup>G<sup>V</sup> V<sup>N</sup>I<sup>H</sup>E<sup>N</sup>K<sup>R</sup>T<sup>G</sup> S<sup>L</sup>F<sup>K</sup>I<sup>W</sup>L<sup>V</sup>V<sup>P</sup> S<sup>L</sup>L<sup>E</sup>L<sup>A</sup>W<sup>E</sup>K<sup>L</sup> L<sup>A</sup>A<sup>F</sup>P<sup>N</sup>L<sup>A</sup>N<sup>L</sup> S<sup>R</sup>T<sup>Q</sup>L<sup>L</sup>H<sup>L</sup>L<sup>G</sup>L T<sup>Q</sup>E<sup>L</sup>I<sup>E</sup>R<sup>L</sup>K <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.

## Product Details

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

KLHDC10

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### Alternative Name:

Klhdc10 ([KLHDC10 Products](#))

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### Background:

Kelch domain-containing protein 10,FUNCTION: Substrate-recognition component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation (By similarity). The C-degron recognized by the DesCEND pathway is usually a motif of less than ten residues and can be present in full-length proteins, truncated proteins or proteolytically cleaved forms (By similarity). The CRL2(KLHDC10) complex specifically recognizes proteins with a proline-glycine (Pro-Gly) or an alanine tail (CAT tail) at the C-terminus, leading to their ubiquitination and degradation (By similarity). The CRL2(KLHDC10) complex is involved in the ribosome-associated quality control (RQC) pathway, which mediates the extraction of incompletely synthesized nascent chains from stalled ribosomes: CRL2(KLHDC10) acts downstream of NEMF and recognizes CAT tails associated with stalled nascent chains, leading to their ubiquitination and degradation (By similarity). Participates in the oxidative stress-induced cell death through MAP3K5 activation

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## Target Details

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(By similarity). Inhibits PPP5C phosphatase activity on MAP3K5 (PubMed:23102700). Acts as a regulator of necroptosis (PubMed:27631783). {ECO:0000250|UniProtKB:Q6PID8, ECO:0000269|PubMed:23102700, ECO:0000269|PubMed:27631783}.

Molecular Weight: 49.0 kDa

UniProt: [Q6PAR0](#)

## 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.

Restrictions: For Research Use only

## Handling

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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