

Datasheet for ABIN7557382  
**KLHDC2 Protein (AA 1-406) (His tag)**



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## Overview

Quantity:	1 mg
Target:	KLHDC2
Protein Characteristics:	AA 1-406
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLHDC2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Klhdc2 Protein expressed in mammalian cells.
Sequence:	MADGNEDARA EDLPGPAFEN YEAMELACPA ERSGHVAVSD GRHMFVWGGY KSNQVRGLYD FYLPREELWI YNMETGRWKK INTEG DVPPS MSGSCAVCVD RVL YLFGGHH SRGNTNKFYM LDSRSADRGL QWERIDCQGI PPSSKDKLGV WYKKNLIFF GGYGYLPEDK VLGTFFEDET SFWNSSHPRG WNDHVHILDT ETFAWSQPIT TGKAPSPRAA HACATVGNKG FVFGGRYRDA RMNDLHYLNL DTWEWNELIP QGVCPVGRSW HSLTPVSSDH LFLFGGFTTE KQPLSDAWTY CISKNEWIQF NHPYVEKPRL WHTACASDEG EVIVFGGCAN NLLVHHRAAH SNEVLIFS VQ PKSLVRLSLE AVICFKEMLA NSWSCLPKHL LHSV NQRFGS NNTSGS <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>
Characteristics:	Key Benefits:

## Product Details

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- 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, Western Blot

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Grade: custom-made

## Target Details

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Target: KLHDC2

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Alternative Name: Klhdc2 ([KLHDC2 Products](#))

Background: Kelch domain-containing protein 2 (Endothelial differentiation inhibitory protein TNG),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. 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. The CRL2(KLHDC2) complex specifically recognizes proteins with a diglycine (Gly-Gly) at the C-terminus, leading to their ubiquitination and degradation. The CRL2(KLHDC2) complex mediates ubiquitination and degradation of truncated SELENOK and SELENOS selenoproteins produced by failed UGA/Sec decoding, which end with a diglycine. The CRL2(KLHDC2) complex also recognizes proteolytically cleaved proteins ending with Gly-Gly, such as the N-terminal fragment of USP1, leading to their degradation. May also act as an indirect repressor of CREB3-mediated transcription by interfering with CREB3-DNA-binding. {ECO:0000250|UniProtKB:Q9Y2U9}.

## Target Details

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Molecular Weight: 45.9 kDa

UniProt: [Q4G5Y1](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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