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Datasheet for ABIN7546952

**DCAF13 Protein (AA 1-445) (His tag)**

## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | DCAF13  |
| Protein Characteristics:      | AA 1-445                                      |
| Origin:                       | Human   |
| Source:                       | HEK-293 Cells                                 |
| Protein Type:                 | Recombinant                                   |
| Purification tag / Conjugate: | This DCAF13 protein is labelled with His tag. |
| Application:                  | SDS-PAGE (SDS), Western Blotting (WB)         |

## Product Details

|                  |   |
|------------------|---|
| Purpose:         | Custom-made recombinat DCAF13 Protein expressed in mammalien cells.   |
| Sequence:        | MKVKMLSRNP DNYVRETKLD LQRVPRNYDP ALHPFEVPRE YIRALNATKL ERVFAKPFLA<br>SLDGHDRDGVN CLAKHPEKLA TVLSGACDGE VRIWNLTQRN CIRTQAHEG FVRGICTRFC<br>GTSFFTVDGDD KTVKQWKMDG PGYGDEEEPL HTILGKTVYT GIDHHWKEAV FATCGQQVDI<br>WDEQRTNPIC SMTWGFDSIS SVKFNPIETF LLGSCASDRN IVLYDMRQAT PLKKVILDMR<br>TNTICWNPME AFIFTAANED YNLYTFDMRA LDTPVMVHMD HVSAVLDDVDY SPTGKEFVSA<br>SFDKSIRIFP VDKSRSREVIY HTKRMQHVIC VKWTSDSKYI MCGSDEMNIIR LWKANASEKL<br>GVLTSREKAA KDYNQKLKEK FQHYPHIKRI ARHRHLPKSI YSQQEQRIM KEARRRKEVN<br>RIKHSKPGSV PLVSEKKKHV VAVVK <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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|         |   |
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| Purity: | > 90 % as determined by Bis-Tris Page, Western Blot |
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| Grade: | custom-made |
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## Target Details

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| Target: | DCAF13 |
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| Alternative Name: | DCAF13 ( <a href="#">DCAF13 Products</a> ) |
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|             |   |
|-------------|---|
| Background: | <p>DDB1- and CUL4-associated factor 13 (WD repeat and SOF domain-containing protein 1),FUNCTION: Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797). Participates in the 18S rRNA processing in growing oocytes, being essential for oocyte nonsurrounded nucleolus (NSN) to surrounded nucleolus (SN) transition (PubMed:30283081). {ECO:0000269 PubMed:30283081, ECO:0000269 PubMed:34516797}., FUNCTION: Substrate-recognition component of a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex that plays a key role in embryo preimplantation and is required for normal meiotic cycle progression in oocytes (PubMed:16949367, PubMed:30111536, PubMed:31492966). Acts as a maternal factor that regulates oocyte and zygotic chromatin tightness during maternal to zygotic transition (By</p> |
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## Target Details

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similarity). Also involved in the transformation of the endometrium into the decidua, known as decidualization, providing a solid foundation for implantation of blastocysts (PubMed:35932979). Recognizes the histone methyltransferases SUV39H1 and SUV39H2 and directs them to polyubiquitination and proteasomal degradation, which facilitates the H3K9me3 removal and early zygotic gene expression, essential steps for progressive genome reprogramming and the establishment of pluripotency during preimplantation embryonic development (PubMed:30111536). Supports the spindle assembly and chromosome condensation during oocyte meiotic division by targeting the polyubiquitination and degradation of PTEN, a lipid phosphatase that inhibits PI3K pathway as well as oocyte growth and maturation (PubMed:31492966). Targets PMP22 for polyubiquitination and proteasomal degradation (By similarity). {ECO:0000250|UniProtKB:Q6PAC3, ECO:0000269|PubMed:16949367, ECO:0000269|PubMed:30111536, ECO:0000269|PubMed:31492966, ECO:0000269|PubMed:35932979}.

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Molecular Weight: 51.4 kDa

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UniProt: [Q9NV06](#)

## 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.

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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