

Datasheet for ABIN7555936  
**ube3a Protein (AA 1-875) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ube3a
Protein Characteristics:	AA 1-875
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ube3a protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant UBE3A Protein expressed in mammalian cells.
Sequence:	MEKLNHCYWK SGEPQSDDIE ASRMKRAAAK HLIERYHQL TEGCGNEACT NEFCASCPTF LRMDNNAAAI KALELYKINA KLCDPHPSKK GASSAYLENS KGAPNNSCSE IKMNKKGARI DFKDVTYLTE EKVEILELC REREDYSPLI RVIGRVFSSA EALVQSFQKV KQHTKEELKS LQAKDEDKDE DEKEKAACSA AAMEEDSEAS SSRIGDSSQG DNNLQKLGPD DVSVDIDAIR RVYTRLLSNE KIETAFLNAL VYLSNVVECD LTYHNVYSRD PNYLNLFIIV MENRNLHSPE YLEMALPLFC KAMSKLPLAA QGKLIRLWSK YNADQIRMM ETFQQLITYK VISNEFNRSN LVNDDDAIVA ASKCLKMVEY ANVVGGEVDT NHNEEDDEEP IPESSELTQ ELLGEERNK KGPRVDPLET ELGVKTLDCR KPLIPFEFI NEPLNEVLEM DKDYTFKVE TENKFSFMTG PFILNAVTKN LGLYYDNRIR MYSERRITVL YSLVQGQQLN PYLRLKVRRL HIIDALVRL EMIAMENPAD LKKQLYVEFE GEQGVDEGGV SKEFFQLVVE EIFNPDIGMF TYDESTKLFW FNPSSFETEG QFTLIGIVLG LAIYNNCILD VHFPMVVYRK LMGKKGTFRD LGDSHPVLYQ SLKDLLEYEG NVEDDMMITF QISQTDLFGN PPMYDLKENG DKIPITNENR KEFVNLYSDY

## Product Details

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ILNKSVEKQF KAFRRGFHMV TNESPLKYL F RPEEIELLIC GSRNLDFQAL EETTEYDGGY  
TRDSVLIREF WEIVHSFTDE QKRLFLQFTT GTDRAPVGGGL GKLKMIIAKN GPDTERLPTS  
HTCFNVLLLP EYSSKEKLKE RLLKAITYAK GFGML **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.**

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:

- 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

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Target: ube3a

Alternative Name: UBE3A ([ube3a Products](#))

Background: Ubiquitin-protein ligase E3A (EC 2.3.2.26) (E6AP ubiquitin-protein ligase) (HECT-type ubiquitin transferase E3A) (Human papillomavirus E6-associated protein) (Oncogenic protein-associated protein E6-AP) (Renal carcinoma antigen NY-REN-54),FUNCTION: E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and transfers it to its substrates (PubMed:10373495, PubMed:16772533, PubMed:19204938,

## Target Details

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PubMed:19233847, PubMed:19325566, PubMed:19591933, PubMed:22645313, PubMed:24273172, PubMed:24728990, PubMed:30020076). Several substrates have been identified including the BMAL1, ARC, LAMTOR1, RAD23A and RAD23B, MCM7 (which is involved in DNA replication), annexin A1, the PML tumor suppressor, and the cell cycle regulator CDKN1B (PubMed:10373495, PubMed:19204938, PubMed:19325566, PubMed:19591933, PubMed:22645313, PubMed:24728990, PubMed:30020076). Additionally, may function as a cellular quality control ubiquitin ligase by helping the degradation of the cytoplasmic misfolded proteins (PubMed:19233847). Finally, UBE3A also promotes its own degradation in vivo. Plays an important role in the regulation of the circadian clock: involved in the ubiquitination of the core clock component BMAL1, leading to its proteasomal degradation (PubMed:24728990). Acts as transcriptional coactivator of progesterone receptor PGR upon progesterone hormone activation (PubMed:16772533). Acts as a regulator of synaptic development by mediating ubiquitination and degradation of ARC (By similarity). Required for synaptic remodeling in neurons by mediating ubiquitination and degradation of LAMTOR1, thereby limiting mTORC1 signaling and activity-dependent synaptic remodeling (By similarity). Synergizes with WBP2 in enhancing PGR activity (PubMed:16772533). {ECO:0000250|UniProtKB:O08759, ECO:0000269|PubMed:10373495, ECO:0000269|PubMed:16772533, ECO:0000269|PubMed:19204938, ECO:0000269|PubMed:19233847, ECO:0000269|PubMed:19325566, ECO:0000269|PubMed:19591933, ECO:0000269|PubMed:22645313, ECO:0000269|PubMed:24273172, ECO:0000269|PubMed:24728990, ECO:0000269|PubMed:30020076}, FUNCTION: (Microbial infection) Catalyzes the high-risk human papilloma virus E6-mediated ubiquitination of p53/TP53, contributing to the neoplastic progression of cells infected by these viruses. {ECO:0000269|PubMed:8380895}.

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Molecular Weight: 100.7 kDa

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UniProt: [Q05086](#)

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Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#)

## 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.

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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