

Datasheet for ABIN7555974  
**UVRAG Protein (AA 1-699) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	UVRAG
Protein Characteristics:	AA 1-699
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UVRAG protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat UVRAG Protein expressed in mammalian cells.
Sequence:	MSASASVGGP VPQPPGPAA ALPPGSAARA LHVELPSQQR RLRHLRNIAA RNIVNRNGHQ LLDTYFTLHL CSTEKIYKEF YRSEVIKNSL NPTWRSLDFG IMPDRLDTSV SCFVVKIWGG KENIYQLLIE WKVCLDGLKY LGQQIHARNQ NEIFGLNDG YYGAPFEHKG YSNAQKTILL QVDQNCVRNS YDVFSLLRLH RAQCAIKQTQ VTVQKIGKEI EEKLRLTSTS NELKKKSECL QLKILVLQNE LERQKKALGR EVALLHKQOI ALQDKGSAFS AEHLKLQLQK ESLNELRKEC TAKRELFKLT NAQLTIRCRQ LLELSYIYP IDLNEHKDYF VCGVKLPNSE DFQAKDDGSI AVALGYTAHL VSMISFFLQV PLRYPIIHKG SRSTIKDNIN DKLTEKEREFP LYPKGGKEL QFDYGVYLLN KNIAQLRYQH GLGTPDLRQT LPNLKNFMEH GLMVRCDRHH TSSAIPVPKR QSSIFGGADV GFSGGIPSPD KGHKRASSE NERLQYKTPP PSYNSALAQP VTTVPSMGET ERKITSLSSS LDTSLDFSKE NKKKGEDLVG SLNGGHANVH PSQEQGEALS GHRATVNGTL LPSEQAGSAS VQLPGEFHPV SEAELCCTVE QAEEIIGLEA TGFASGDQLE AFNCIPVDSA

## Product Details

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VAVECDEQVL GEFEEFSRRI YALNENVSSF RRPRRSSDK **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.**

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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, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

UVRAG

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### Alternative Name:

UVRAG ([UVRAG Products](#))

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### Background:

UV radiation resistance-associated gene protein (p63),FUNCTION: Versatile protein that is involved in regulation of different cellular pathways implicated in membrane trafficking. Involved in regulation of the COPI-dependent retrograde transport from Golgi and the endoplasmic reticulum by associating with the NRZ complex, the function is dependent on its binding to phosphatidylinositol 3-phosphate (PtdIns(3)P) (PubMed:16799551, PubMed:18552835, PubMed:20643123, PubMed:24056303, PubMed:28306502). During autophagy acts as a regulatory subunit of the alternative PI3K complex II (PI3KC3-C2) that mediates formation of phosphatidylinositol 3-phosphate and is believed to be involved in maturation of autophagosomes and endocytosis. Activates lipid kinase activity of PIK3C3

## Target Details

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(PubMed:16799551, PubMed:20643123, PubMed:24056303, PubMed:28306502). Involved in the regulation of degradative endocytic trafficking and cytokinesis, and in regulation of ATG9A transport from the Golgi to the autophagosome, the functions seems to implicate its association with PI3KC3-C2 (PubMed:16799551, PubMed:20643123, PubMed:24056303). Involved in maturation of autophagosomes and degradative endocytic trafficking independently of BECN1 but depending on its association with a class C Vps complex (possibly the HOPS complex), the association is also proposed to promote autophagosome recruitment and activation of Rab7 and endosome-endosome fusion events (PubMed:18552835, PubMed:28306502). Enhances class C Vps complex (possibly HOPS complex) association with a SNARE complex and promotes fusogenic SNARE complex formation during late endocytic membrane fusion (PubMed:24550300). In case of negative-strand RNA virus infection is required for efficient virus entry, promotes endocytic transport of virions and is implicated in a VAMP8-specific fusogenic SNARE complex assembly (PubMed:24550300). {ECO:0000269|PubMed:18552835, ECO:0000269|PubMed:20643123, ECO:0000269|PubMed:24056303, ECO:0000269|PubMed:28306502, ECO:0000305},, FUNCTION: Involved in maintaining chromosomal stability. Promotes DNA double-strand break (DSB) repair by association with DNA-dependent protein kinase complex DNA-PK and activating it in non-homologous end joining (NHEJ) (PubMed:22542840). Required for centrosome stability and proper chromosome segregation (PubMed:22542840). {ECO:0000269|PubMed:22542840}.

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Molecular Weight: 78.2 kDa

UniProt: [Q9P2Y5](#)

## 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

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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## Handling

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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