

Datasheet for ABIN7564044  
**ATG9B Protein (AA 1-922) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ATG9B
Protein Characteristics:	AA 1-922
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATG9B protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Atg9b Protein expressed in mammalien cells.
Sequence:	<p>MVRRRTGWGGS RRQRGRWGD L GPSSVPLLPM ALPLPASPCR GTGGRRISVF SLSPAPRTRS  CSSSVFPPAS GSPCLVIQEA GASQTPHNVL PTPTTPSTQA HPTMIHTSAS PSWGSHTSTPP  LASATPPPSC PRPQDHPGLR MGPLIPEQDY ERLEDCDPEG SQDSPIHGED HQPLLHVPEG  LRGSWHHIQN LDSFFTKIYS YHQRNFGFACI LLEDVFQLGQ FIFIVTFTTF LLRCVDYNVL  FNNQPKNHTR RGPLHSKVT L SDAILPSAQC AEKIHDSP LL VLLVLAAGF WLFQLLR SVC  NLFSYWDIQV FYREALHIPP EELSSVPWAE VQSR LLELQR SGGLCVQPRP LTEL DVHHRI  LRYTNYQVAL ANKGLLPARC PLPWGSSAAF LSRGLALNVD LLLFRGPFSL FRGGWELPEA  YKRSDLRGVL ANRWRRTVLL LAAVNLALSP LVLAWQVLHA FYSHVELLRR EPGAFGARRW  SRLARLQLRH FNELPHELRA RLGRAYRPAA AFLRAAEPPA PLRALLARQL VFFSGALFAA  LLVLT IYDED VLAVEHVLTT MTALGVTATV ARSFIPEEQC QGRSSQLLLQ AALAHMHYLP  EEPGATGARA SSYWQMAQLL QYRAVSLLEE LLSPLLTPLF LLFWFRPRAL EIIDFFHHFT</p>

## Product Details

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VDVAGVGDIC SFALMDVKRH GHPQWLSEGO TEASLSQRAE DGKTELSLMR FSLAHPQWQP  
PGHSSKFLGH LRGRVQQDAA AWGAPSTRSP PTPGVLSRCT SPLPEAFAN LLVNPRPPQR  
DLSPTAPCPA AATASLLASI SRMVQDPSCV SPGGTGGQKL TQLPELVSAE MSLHAIYLHQ  
LHQQQQQLW GEASASSPSR PWSSPSQPGS PDEEKPSWSS DGSSPASSPR QQWGTQRAQN  
LFPKGFQENT DTQKEPLTGP LH **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:

ATG9B

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### Alternative Name:

Atg9b ([ATG9B Products](#))

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### Background:

Autophagy-related protein 9B (APG9-like 2) (Nitric oxide synthase 3-overlapping antisense gene protein),FUNCTION: Phospholipid scramblase involved in autophagy by mediating autophagosomal membrane expansion (PubMed:15755735). Cycles between the preautophagosomal structure/phagophore assembly site (PAS) and the cytoplasmic vesicle pool and supplies membrane for the growing autophagosome. Lipid scramblase activity plays a key role in preautophagosomal structure/phagophore assembly by distributing the

## Target Details

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phospholipids that arrive through ATG2 (ATG2A or ATG2B) from the cytoplasmic to the luminal leaflet of the bilayer, thereby driving autophagosomal membrane expansion (By similarity). In addition to autophagy, also plays a role in necrotic cell death (By similarity).

{ECO:0000250|UniProtKB:Q68FE2, ECO:0000250|UniProtKB:Q7Z3C6, ECO:0000269|PubMed:15755735}.

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Molecular Weight: 101.9 kDa

UniProt: [Q6EBV9](#)

## 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