

Datasheet for ABIN7545039

**ATP6V0D1 Protein (AA 1-351) (His tag)**[Go to Product page](#)

## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | ATP6V0D1  |
| Protein Characteristics:      | AA 1-351  |
| Origin:                       | Human   |
| Source:                       | HEK-293 Cells                                   |
| Protein Type:                 | Recombinant                                     |
| Purification tag / Conjugate: | This ATP6V0D1 protein is labelled with His tag. |

## Product Details

|                  |   |
|------------------|---|
| Purpose:         | Custom-made recombinant ATP6V0D1 Protein expressed in mammalian cells.  |
| Sequence:        | <p>MSFFPELYFN VDNNGYLEGLV RGLKAGVLSQ ADYLNLVQCE TLEDLKLHLQ STDYGNFLAN<br/>EASPLTVSVI DDRLKEKMVV EFRHMRNHAY EPLASFLDFI TYSYIDNVI LLITGTLHQR<br/>SIAELVPKCH PLGSFEQMEA VNIAQTPAEL YNAILVDTPL AAFFQDCISE QDLDEMNIIEI<br/>IRNTLYKAYL ESFYKFCTLL GGTTADAMCP ILEFEADRRA FIITINSFGT ELSKEDRAKL<br/>FPHCGRLYPE GLAQLARADD YEQVKNVADY YPEYKLLFEG AGSNPGDKTL EDRFFEHEVK<br/>LNKLAFLNQF HFGVIFYAFVK LKEQEQRNIV WIAECIAQRH RAKIDNYIPI F <b>Sequence without tag.</b></p> <p><b>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></p> |
| 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:   |

## 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
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|        |             |
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| Grade: | custom-made |
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## Target Details

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|         |          |
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| Target: | ATP6V0D1 |
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|                   |  |
|-------------------|--|
| Alternative Name: | ATP6V0D1 ( <a href="#">ATP6V0D1 Products</a> ) |
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|             |  |
|-------------|--|
| Background: | V-type proton ATPase subunit d 1 (V-ATPase subunit d 1) (32 kDa accessory protein) (V-ATPase 40 kDa accessory protein) (V-ATPase AC39 subunit) (p39) (Vacuolar proton pump subunit d 1),FUNCTION: Subunit of the V0 complex of vacuolar(H <sup>+</sup> )-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (PubMed:33065002, PubMed:28296633, PubMed:30374053). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (PubMed:30374053). May play a role in coupling of proton transport and ATP hydrolysis (By similarity). In aerobic conditions, involved in intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation (PubMed:28296633). May play a role in cilium biogenesis through regulation of the transport and the localization of proteins to the cilium (By similarity). {ECO:0000250 UniProtKB:P51863, ECO:0000250 UniProtKB:Q6PGV1, |
|-------------|--|

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## Target Details

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ECO:0000269|PubMed:28296633, ECO:0000269|PubMed:30374053,  
ECO:0000269|PubMed:33065002}.

Molecular Weight: 40.3 kDa

UniProt: [P61421](#)

Pathways: [Transition Metal Ion Homeostasis](#), [Proton Transport](#), [ER-Nucleus Signaling](#), [Unfolded Protein Response](#)

## 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.

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