Datasheet for ABIN3074992

# UBE2D2 Protein (AA 1-147) (Strep Tag)

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## 1 Image

## Overview

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| Quantity: | 1 mg |
| Target: | UBE2D2 |
| Protein Characteristics: | AA 1-147 |
| Origin: | Human |
| Source: | Tobacco (Nicotiana tabacum) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This UBE2D2 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

## Product Details

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| Sequence: | MALKRIHKEL NDLARDPPAQ CSAGPVGDDM FHWQATIMGP NDSPYQGGVF FLTIHFPTDY PFKPPKVAFT TRIYHPNINS NGSICLDILR SQWSPALTIS KVLLSICSLL CDPNPDDPLV PEIARIYKTD REKYNRIARE WTQKYAM<br>**Sequence without tag. The proposed Strep-Tag is based on experience s 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.** |
| Characteristics: | Key Benefits:<br>• Made in Germany - from design to production - by highly experienced protein experts.<br>• Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.<br>• These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). |

- 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 will ensure that you receive a correctly folded protein.
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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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| Purification: | Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):<br>1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.<br>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. |
| Purity: | >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Endotoxin Level: | Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) |
| Grade: | Crystallography grade |

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## Target Details

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| Target: | UBE2D2 |
| Alternative Name: | UBE2D2 (UBE2D2 Products) |
| Background: | Ubiquitin-conjugating enzyme E2 D2 (EC 2.3.2.23) ((E3-independent) E2 ubiquitin-conjugating enzyme D2) (EC 2.3.2.24) (E2 ubiquitin-conjugating enzyme D2) (Ubiquitin carrier protein D2) (Ubiquitin-conjugating enzyme E2(17)KB 2) (Ubiquitin-conjugating enzyme E2-17 kDa 2) (Ubiquitin-protein ligase D2) (p53-regulated ubiquitin-conjugating enzyme 1),FUNCTION: Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins (PubMed:26475854, PubMed:10329681, PubMed:18042044, PubMed:18703417, PubMed:20061386, PubMed:20403326, PubMed:20525694, PubMed:28322253). Catalyzes 'Lys-48'-linked polyubiquitination (PubMed:26475854, PubMed:10329681, PubMed:18042044, PubMed:18359941, PubMed:18703417, PubMed:20061386, PubMed:20403326, PubMed:20525694). Mediates the selective degradation of short-lived and abnormal proteins (PubMed:26475854, PubMed:10329681, PubMed:18042044, PubMed:18359941, PubMed:18703417, PubMed:20061386, PubMed:20403326, PubMed:20525694). Functions in the E6/E6-AP-induced ubiquitination of p53/TP53 (PubMed:15280377). Mediates ubiquitination of PEX5 and SQSTM1 and autoubiquitination of STUB1 and TRAF6 (PubMed:18359941, PubMed:28322253). Involved in the signal-induced conjugation and subsequent degradation of NFKBIA, FBXW2-mediated GCM1 ubiquitination and degradation, MDM2-dependent degradation of p53/TP53 and the activation of MAVS in the mitochondria by RIGI in response to viral infection (PubMed:18703417, PubMed:20403326). Essential for viral activation of IRF3 (PubMed:19854139). {ECO:0000269\|PubMed:10329681, ECO:0000269\|PubMed:15280377, ECO:0000269\|PubMed:18042044, ECO:0000269\|PubMed:18359941, ECO:0000269\|PubMed:18703417, ECO:0000269\|PubMed:19854139, ECO:0000269\|PubMed:20061386, ECO:0000269\|PubMed:20403326, ECO:0000269\|PubMed:20525694, ECO:0000269\|PubMed:26475854, ECO:0000269\|PubMed:28322253}. |
| Molecular Weight: | 16.7 kDa |
| UniProt: | P62837 |
| Pathways: | Activation of Innate immune Response, Toll-Like Receptors Cascades |

## 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 |

## Application Details

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| | guarantee though. |
| Comment: | ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.<br>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein! |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | Unlimited (if stored properly) |


**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process

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