Datasheet for ABIN3096201

# Ubiquilin 2 Protein (UBQLN2) (AA 2-624) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | Ubiquilin 2 (UBQLN2) |
| Protein Characteristics: | AA 2-624 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Ubiquilin 2 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys) |

## Product Details

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| Sequence: | AENGESSGPP RPSRGPAAAQ GSAAAPAEPK IIKVTVKTPK EKEEFAVPEN SSVQQFKEAI SKRFKSQTDQ LVLIFAGKIL KDQDTLIQHG IHDGLTVHLV IKSQNRPQGQ STQPSNAAGT NTTSASTPRS NSTPISTNSN PFGLGSLGGL AGLSSLGLSS TNFSELQSQM QQQLMASPEM MIQIMENPFV QSMLSNPDLM RQLIMANPQM QQLIQRNPEI SHLLNNPDIM RQTLEIARNP AMMQEMMRNQ DLALSNLESI PGGYNALRRM YTDIQEPMLN AAQEQFGGNP FASVGSSSSS GEGTQPSRTE NRDPLPNPWA PPPATQSSAT TSTTTSTGSG SGNSSSNATG NTVAAANYVA SIFSTPGMQS LLQQITENPQ LIQNMLSAPY MRSMMQSLSQ NPDLAAQMML NSPLFTANPQ LQEQMRPQLP AFLQQMQNPD TLSAMSNPRA MQALMQIQQG LQTLATEAPG LIPSFTPGVG VGVLGTAIGP VGPVTPIGPI GPIVPFTPIG PIGPIGPTGP AAPPGSTGSG GPTGPTVSSA APSETTSPTS ESGPNQQFIQ QMVQALAGAN APQLPNPEVR FQQQLEQLNA MGFLNREANL QALIATGGDI NAAIERLLGS QPS<br>**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a** |

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| | **special request, please contact us.** |
| Characteristics: | • Made in Germany - from design to production - by highly experienced protein experts.<br>• Human UBQLN2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br>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.<br>In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).<br>When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.<br>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.<br>The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein. |
| Purification: | Two step purification of proteins expressed in baculovirus infected SF9 insect cells:<br>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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: | >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Protein is endotoxin free. |
| Grade: | Crystallography grade |

 

## Target Details

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| Target: | Ubiquilin 2 (UBQLN2) |
| Alternative Name: | UBQLN2 (UBQLN2 Products) |
| Background: | Plays an important role in the regulation of different protein degradation mechanisms and pathways including ubiquitin-proteasome system (UPS), autophagy and the endoplasmic reticulum-associated protein degradation (ERAD) pathway. Mediates the proteasomal targeting of misfolded or accumulated proteins for degradation by binding (via UBA domain) to their polyubiquitin chains and by interacting (via ubiquitin-like domain) with the subunits of the proteasome (PubMed:10983987). Plays a role in the ERAD pathway via its interaction with ER-localized proteins FAF2/UBXD8 and HERPUD1 and may form a link between the polyubiquitinated ERAD substrates and the proteasome (PubMed:24215460, PubMed:18307982). Involved in the regulation of macroautophagy and autophagosome formation, required for maturation of autophagy-related protein LC3 from the cytosolic form LC3-I to the membrane-bound form LC3-II and may assist in the maturation of autophagosomes to autolysosomes by mediating autophagosome-lysosome fusion (PubMed:19148225, PubMed:20529957). Negatively regulates the endocytosis of GPCR receptors: AVPR2 and ADRB2, by specifically reducing the rate at which receptor-arrestin complexes concentrate in clathrin-coated pits (CCPs) (PubMed:18199683). {ECO:0000269\|PubMed:10983987, ECO:0000269\|PubMed:18199683, ECO:0000269\|PubMed:18307982, ECO:0000269\|PubMed:19148225, ECO:0000269\|PubMed:20529957, ECO:0000269\|PubMed:24215460}. |
| Molecular Weight: | 66.5 kDa Including tag. |
| UniProt: | Q9UHD9 |

## 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 gurantee though. |
| Comment: | In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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: | Unlimited (if stored properly) |