Datasheet for ABIN7555928

UBQLN4 Protein (AA 1-601) (His tag)

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Overview

Quantity:	1 mg
Target:	UBQLN4
Protein Characteristics:	AA 1-601
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBQLN4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant UBQLN4 Protein expressed in mammalian cells.
Sequence:	MAEPSGAETR PPIRVTVKTP KDKEEIVICD RASVKEFKEE ISRRFKAQQD QLVLIFAGKI LKDGDTLNQH GIKDGLTVHL VIKTPQKAQD PAAATASSPS TPDPASAPST TPASPATPAQ PSTSGSASSD AGSGSRRSSG GGPSPGAGEG SPSATASILS GFGGILGLGS LGLGSANFME LQQQMQRQLM SNPEMLSQIM ENPLVQDMMS NPDLMRHMIM ANPQMQQLME RNPEISHMLN NPELMRQTME LARNPAMMQE MMRNQDRALS NLESIPGGYN ALRRMYTDIQ EPMFSAAREQ FGNNPFSSLA GNSDSSSSQP LRTENREPLP NPWSPSPPTS QAPGSGGEGT GGSGTSQVHP TVSNPFGINA ASLGSGMFNS PEMQALLQQI SENPQLMQNV ISAPYMRSMM QTLAQNPDFA AQMMVNVPLF AGNPQLQEQL RLQLPVFLQQ MQNPESLSIL TNPRAMQALL QIQQGLQTLQ TEAPGLVPSL GSFGISRTPA PSAGSNAGST PEAPTSSPAT PATSSPTGAS SAQQQLMQQM IQLLAGSGNS QVQTPEVRFQ QQLEQLNSMG FINREANLQA LIATGGDINA AIERLLGSQL S **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.**

Product Details

	In case you have a special request, please contact us.
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: • 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	UBQLN4
Alternative Name:	UBQLN4 (UBQLN4 Products)
Background:	Ubiquilin-4 (Ataxin-1 interacting ubiquitin-like protein) (A1Up) (Ataxin-1 ubiquitin-like-interacting protein A1U) (Connexin43-interacting protein of 75 kDa) (CIP75),FUNCTION: Regulator of protein degradation that mediates the proteasomal targeting of misfolded, mislocalized or accumulated proteins (PubMed:15280365, PubMed:27113755, PubMed:29666234, PubMed:30612738). Acts by binding polyubiquitin chains of target proteins via its UBA domain and by interacting with subunits of the proteasome via its ubiquitin-like domain (PubMed:15280365, PubMed:27113755, PubMed:30612738). Key regulator of DNA repair that represses homologous recombination repair: in response to DNA damage, recruited to sites of DNA damage following phosphorylation by ATM and acts by binding and removing ubiquitinated MRE11 from damaged chromatin, leading to MRE11 degradation by the

Target Details

	proteasome (PubMed:30612738). MRE11 degradation prevents homologous recombination repair, redirecting double-strand break repair toward non-homologous end joining (NHEJ) (PubMed:30612738). Specifically recognizes and binds mislocalized transmembrane-containing proteins and targets them to proteasomal degradation (PubMed:27113755). Collaborates with DESI1/POST in the export of ubiquitinated proteins from the nucleus to the cytoplasm (PubMed:29666234). Also plays a role in the regulation of the proteasomal degradation of non-ubiquitinated GJA1 (By similarity). Acts as an adapter protein that recruits UBQLN1 to the autophagy machinery (PubMed:23459205). Mediates the association of UBQLN1 with autophagosomes and the autophagy-related protein LC3 (MAP1LC3A/B/C) and may assist in the maturation of autophagosomes to autolysosomes by mediating autophagosome-lysosome fusion (PubMed:23459205). {ECO:0000250|UniProtKB:Q99NB8, ECO:0000269|PubMed:15280365, ECO:0000269|PubMed:23459205, ECO:0000269|PubMed:27113755, ECO:0000269|PubMed:29666234, ECO:0000269|PubMed:30612738}.
Molecular Weight:	63.9 kDa
UniProt:	Q9NRR5

Application Details

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

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