

Datasheet for ABIN3081922

IQUB Protein (AA 1-791) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	IQUB
Protein Characteristics:	AA 1-791
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IQUB protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MSNQQEKYEA QNIVNSTEES DDAFDTV TIP VPSEEPQESD QTEEHESGIE QFSESHAIHV</p> <p>EEQSDQSFSS LEPDNEQLME EVISPRQVS Y TPQHHEKQYA MQRPNDDSLA FLDKIKSVKE</p> <p>SLQESVEDSL ATVKVVLIPV GQEIVIPFKV DTILKYLKDH FSHLLGIPHS VLQIRYSGKI</p> <p>LKNNETLVQH GVKPQEIVQV EIFSTNPDLY PVRRIDGLTD VSQIITVTVQ TGLDQYQQVP</p> <p>VEIVKSDFFHK PFLGGFRHKV TGVEYHNAGT QTVPKRIPER LSIFCRDTQT VFQKKNLQQT</p> <p>TNTTSTQMTN IGVIYSNM TD KLVTGPKYFS AA EYHAQRLK AVIVIQTY YR QWHAKIFVEN</p> <p>LRRQKSLRLE WETQQELRKI REKEEWIKLD YHRRHNPKN EDFFLYNAL EFWRQEELTR</p> <p>INQSFTGAER KAALCELLEK ETQIIASIGR HRYIAYMANQ EAAIQAF LDK CSAPKIWRTP</p> <p>NGKTIEMDTQ FTIRARELQN IYKCIMLKNI SQDERLDVLL TLKHTVKEHE CKLTQEILEL</p> <p>IDREVDLMMR GVKHHNLEGL RKRIATLFFH YIKTPLFNPE VAKYLVKVPQD PLKFYKKIYF</p> <p>CHSCQLYLP S TEFSVSSTSR RIYRCRCIN LQNEAQKRES FLKYKCLLQQ LYYTEADYED</p>

DSKIAFLMQL QDIQYLTENI WASQSVLSAC DNLSDLVMVR WNKSLEWSPW NCILLTKDEA
AAHLKLTSIE EGYERSFIHK IKHKHILAKN YFSQVPVLAS FILDDGEIDE IRWKYHSDTT
PKIIESQRPP H

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:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	IQUB
Alternative Name:	IQUB (IQUB Products)
Background:	<p>IQ motif and ubiquitin-like domain-containing protein,FUNCTION: Adapter protein that anchors the radial spoke 1 (RS1) complex to the A microtubule of outer doublet microtubules in axonemes (PubMed:36355624). The triple radial spokes (RS1, RS2 and RS3) are required to modulate beating of the sperm flagellum (PubMed:36355624). May play a role in inhibiting signaling via MAPK1/ERK2 and MAPK3/ERK1 (PubMed:36355624). Additionally, may play a role in the functioning of cilia (By similarity). Not required for the functioning of tracheal or ependymal cilia (By similarity). {ECO:0000250 UniProtKB:Q8CDK3, ECO:0000269 PubMed:36355624}.</p>
Molecular Weight:	92.6 kDa
UniProt:	Q8NA54

Application Details

Application Notes:	<p>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.</p>
Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>

Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months