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# Datasheet for ABIN3082113 IQCB1 Protein (AA 1-598) (Strep Tag)





#### Overview

Quantity:	1 mg
Target:	IQCB1
Protein Characteristics:	AA 1-598
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IQCB1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Sequence:	MKPTGTDPRI LSIAAEVAKS PEQNVPVILL KLKEIINITP LGSSELKKIK QDIYCYDLIQ YCLLVLSQDY
	SRIQGGWTTI SQLTQILSHC CVGLEPGEDA EEFYNELLPS AAENFLVLGR QLQTCFINAA
	KAEEKDELLH FFQIVTDSLF WLLGGHVELI QNVLQSDHFL HLLQADNVQI GSAVMMMLQN
	ILQINSGDLL RIGRKALYSI LDEVIFKLFS TPSPVIRSTA TKLLLLMAES HQEILILLRQ STCYKGLRRL
	LSKQETGTEF SQELRQLVGL LSPMVYQEVE EQKLHQAACL IQAYWKGFQT RKRLKKLPSA
	VIALQRSFRS KRSKMLLEIN RQKEEEDLKL QLQLQRQRAM RLSRELQLSM LEIVHPGQVE
	KHYREMEEKS ALIIQKHWRG YRERKNFHQQ RQSLIEYKAA VTLQRAALKF LAKCRKKKKL
	FAPWRGLQEL TDARRVELKK RVDDYVRRHL GSPMSDVVSR ELHAQAQERL QHYFMGRALE
	ERAQQHREAL IAQISTNVEQ LMKAPSLKEA EGKEPELFLS RSRPVAAKAK QAHLTTLKHI
	QAPWWKKLGE ESGDEIDVPK DELSIELENL FIGGTKPP
	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

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> 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 <b>made-to-order proteins</b> 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:
	<ul> <li>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.</li> <li>During lysate production, the cell wall and other cellular components that are not required fo 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!</li> </ul>
	Concentration:
	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm</li> <li>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	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.

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	<ol> <li>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.</li> </ol>
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

## Target Details

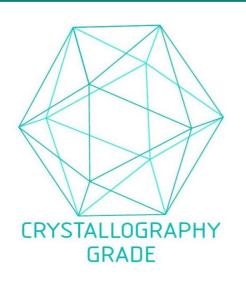
Target:	IQCB1
Alternative Name:	IQCB1 (IQCB1 Products)
Background:	IQ calmodulin-binding motif-containing protein 1 (Nephrocystin-5) (p53 and DNA damage-
	regulated IQ motif protein) (PIQ),FUNCTION: Involved in ciliogenesis. The function in an early
	step in cilia formation depends on its association with CEP290/NPHP6 (PubMed:21565611,
	PubMed:23446637). Involved in regulation of the BBSome complex integrity, specifically for
	presence of BBS2 and BBS5 in the complex, and in ciliary targeting of selected BBSome cargos
	May play a role in controlling entry of the BBSome complex to cilia possibly implicating
	CEP290/NPHP6 (PubMed:25552655). {ECO:0000269 PubMed:23446637,
	ECO:0000269 PubMed:25552655}.
Molecular Weight:	68.9 kDa
UniProt:	Q15051
Application Details	
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
	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.
	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

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Application Details	
	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	
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)

### Images



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

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