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# **UQCR11 Protein (AA 1-56) (Strep Tag)**



## **Image**



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Quantity:	1 mg
Target:	UQCR11
Protein Characteristics:	AA 1-56
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UQCR11 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### **Product Details**

Sequence:

MVTRFLGPRY RELVKNWVPT AYTWGAVGAV GLVWATDWRL ILDWVPYING KFKKDN

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 posttranslational 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:

UQCR11

Target:

- 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.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):		
	<ol> <li>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.</li> <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			

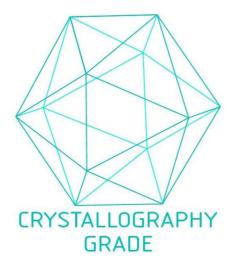
# **Target Details**

Alternative Name:	UQCR11 (UQCR11 Products)		
Background:	Cytochrome b-c1 complex subunit 10 (Complex III subunit 10) (Complex III subunit XI)		
	(Ubiquinol-cytochrome c reductase complex 6.4 kDa protein),FUNCTION: Component of the		
	ubiquinol-cytochrome c oxidoreductase, a multisubunit transmembrane complex that is part o		
	the mitochondrial electron transport chain which drives oxidative phosphorylation. The		
	respiratory chain contains 3 multisubunit complexes succinate dehydrogenase (complex II, CII		
	ubiquinol-cytochrome c oxidoreductase (cytochrome b-c1 complex, complex III, CIII) and		
	cytochrome c oxidase (complex IV, CIV), that cooperate to transfer electrons derived from		
	NADH and succinate to molecular oxygen, creating an electrochemical gradient over the inner		
	membrane that drives transmembrane transport and the ATP synthase. The cytochrome b-c1		
	complex catalyzes electron transfer from ubiquinol to cytochrome c, linking this redox reaction		
	to translocation of protons across the mitochondrial inner membrane, with protons being		
	carried across the membrane as hydrogens on the quinol. In the process called Q cycle, 2		
	protons are consumed from the matrix, 4 protons are released into the intermembrane space		
	and 2 electrons are passed to cytochrome c. QCR10 has a role in CIII assembly and RIP1		
	stability. {ECO:0000250 UniProtKB:P37299}.		
Molecular Weight:	6.6 kDa		
UniProt:	014957		
Pathways:	Proton Transport		
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		
	- · ·		
	components needed for protein production (amino acids, cofactors, etc.) are added to produce		

# **Application Details**

	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