

Datasheet for ABIN3117177

GJa10 Protein (AA 1-543) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	GJa10
Protein Characteristics:	AA 1-543
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GJa10 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlICE®
Sequence:	<p>MGDWNLLGGI LEEVHSHSTI VGKIWLTLF IFRMLVLRVA AEDVWDDEQS AFACNTRQPG CNNICYDDAF PISLIRFWVL QIIFVSSPSL VYMGHALYRL RAFEKDRQRK KSHLRAQMEN PDLDL EEQQR IDRELRRLEE QKRIHKVPLK GCLLR TYVLH ILTRSVLEVG FMIGQYILYG FQMHP LYKCT QPPCPNAVDC FVSRPTEKTI FMLFMHSIAA ISLLNILEI FHLGIRKIMR TLYKKSSSEG IEDETGPPFH LKKYSVAQQC MICSSLPERI SPLQANNQQQ VIRVNPVPSK TMWQIPQPRQ LEVDPSNGKK DWSEKDQHSQ QLHVHSPCPW AGSAGNQHLG QQSDHSSFGL QNTMSQSWLG TTTAPRNCPS FAVGTWEQSQ DPEPSGEPLT DLHSHCRDSE GSMRESGVWI DRSRPGSRKA SFLSRLLSEK RHLHSDSGSS GSRNSSCLDF PHWENSPSPL PSVTGHR TSM VRQAALPIME LSQELFHSGC FLFPFFLPV CMYVCVDREA DGGGDYLRD KIIHSIHSV K FNS</p> <p>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</p>

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 System (ALiCE®).

Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade:

custom-made

Target Details

Target:	GJa10
Alternative Name:	GJA10 (GJa10 Products)
Background:	Gap junction alpha-10 protein (Connexin-62) (Cx62),FUNCTION: One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. Involved in tracer coupling between horizontal cells of the retina. May play a role in the regulation of horizontal cell patterning (By similarity). {ECO:0000250}.
Molecular Weight:	61.9 kDa
UniProt:	Q969M2

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:	<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>
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

Handling

Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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