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# Datasheet for ABIN3079410 EIF2B2 Protein (AA 1-351) (Strep Tag)





#### Overview

Quantity:	1 mg
Target:	EIF2B2
Protein Characteristics:	AA 1-351
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF2B2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence:	MPGSAAKGSE LSERIESFVE TLKRGGGPRS SEEMARETLG LLRQIITDHR WSNAGELMEL
	IRREGRRMTA AQPSETTVGN MVRRVLKIIR EEYGRLHGRS DESDQQESLH KLLTSGGLNE
	DFSFHYAQLQ SNIIEAINEL LVELEGTMEN IAAQALEHIH SNEVIMTIGF SRTVEAFLKE
	AARKRKFHVI VAECAPFCQG HEMAVNLSKA GIETTVMTDA AIFAVMSRVN KVIIGTKTIL
	ANGALRAVTG THTLALAAKH HSTPLIVCAP MFKLSPQFPN EEDSFHKFVA PEEVLPFTEG
	DILEKVSVHC PVFDYVPPEL ITLFISNIGG NAPSYIYRLM SELYHPDDHV L
	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:
	<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</li> </ul>

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3079410 | 04/16/2024 | Copyright antibodies-online. All rights reserved. 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 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 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> </ol>
	2. 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.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Product Details	
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

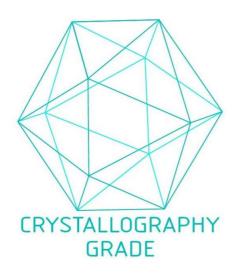
## Target Details

Target:	EIF2B2
Alternative Name:	EIF2B2 (EIF2B2 Products)
Background:	Translation initiation factor eIF2B subunit beta (S20I15) (S20III15) (eIF2B GDP-GTP exchange
	factor subunit beta),FUNCTION: Acts as a component of the translation initiation factor 2B
	(eIF2B) complex, which catalyzes the exchange of GDP for GTP on eukaryotic initiation factor 2
	(eIF2) gamma subunit (PubMed:25858979, PubMed:27023709, PubMed:31048492). Its
	guanine nucleotide exchange factor activity is repressed when bound to eIF2 complex
	phosphorylated on the alpha subunit, thereby limiting the amount of methionyl-initiator
	methionine tRNA available to the ribosome and consequently global translation is repressed
	(PubMed:25858979, PubMed:31048492). {ECO:0000269 PubMed:25858979,
	ECO:0000269 PubMed:27023709, ECO:0000269 PubMed:31048492}.
Molecular Weight:	39.0 kDa
UniProt:	P49770
Pathways:	Methionine Biosynthetic Process
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
	something that functions like a cell, but without the constraints of a living system - all that's

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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