Datasheet for ABIN3076225

ZYG11B Protein (AA 1-744) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	ZYG11B
Protein Characteristics:	AA 1-744
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZYG11B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MPEDQAGAAM EEASPYSLLD ICLNFLTTHL EKFCSARQDG TLCLQEPGVF PQEVADRLLR TMAFHGLLND GTVGIFRGNQ MRLKRACIRK AKISAVAFRK AFCHHKLVEL DATGVNADIT ITDIISGLGS NKWIQQNLQC LVLNSLTLSL EDPYERCFSR LSGLRALSIT NVLFYNEDLA EVASLPRLES LDISNTSITD ITALLACKDR LKSLTMHHLK CLKMTTTQIL DVVRELKHLN HLDISDDKQF TSDIALRLLE QKDILPNLVS LDVSGRKHVT DKAVEAFIQQ RPSMQFVGLL ATDAGYSEFL TGEGHLKVSG EANETQIAEA LKRYSERAFF VREALFHLFS LTHVMEKTKP EILKLVVTGM RNHPMNLPVQ LAASACVFNL TKQDLAAGMP VRLLADVTHL LLKAMEHFPN HQQLQKNCLL SLCSDRILQD VPFNRFEAAK LVMQWLCNHE DQNMQRMAVA IISILAAKLS TEQTAQLGTE LFIVRQLLQI VKQKTNQNSV DTTLKFTLSA LWNLTDESPT TCRHFIENQG LELFMRVLES FPTESSIQQK VLGLLNNIAE VQELHSELMW KDFIDHISSL LHSVEVEVSY FAAGIIAHLI SRGEQAWTLS RSQRNSLLDD LHSAILKWPT PECEMVAYRS FNPFFPLLGC

FTTPGVQLWA VWAMQHVCSK NPSRYCSMLI EEGGLQHLYN IKDHEHTDPH VQQIAVAILD SLEKHIVRHG RPPPCKKQPQ ARLN

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 System (AliCE®).

Product Details

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

Target Details

Target:	ZYG11B
Alternative Name:	ZYG11B (ZYG11B Products)
Background:	Protein zyg-11 homolog B,FUNCTION: Serves as substrate adapter subunit in the E3 ubiquitin ligase complex ZYG11B-CUL2-Elongin BC. Acts to target substrates bearing N-terminal degrons for proteasomal degradation with the first four residues of substrates being the key recognition elements (PubMed:33093214, PubMed:34214466, PubMed:35636250). Prefers Nt-Gly but also has the capacity to recognize Nt-Ser, -Ala and -Cys (PubMed:36496439). Involved in the clearance of proteolytic fragments generated by caspase cleavage during apoptosis since N-terminal glycine degrons are strongly enriched at caspase cleavage sites. Also important in the quality control of protein N-myristoylation in which N-terminal glycine degrons are conditionally exposed after a failure of N-myristoylation (PubMed:31273098). In addition, plays a role in the amplification of cGAS to enhance innate immune response. Mechanistically, strengthens the processes of cGAS binding with dsDNA and assembling oligomers and also accelerates and stabilizes cGAS-DNA condensation, thereby enhancing production of antiviral IFNs and inflammatory cytokines (PubMed:36933219). {ECO:0000269|PubMed:31273098, ECO:0000269|PubMed:33093214, ECO:0000269|PubMed:34214466, ECO:0000269|PubMed:35636250, ECO:0000269|PubMed:36496439, ECO:0000269|PubMed:36933219}.
Molecular Weight:	83.9 kDa
UniProt:	Q9C0D3
Pathways:	SARS-CoV-2 Protein Interactome

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

Application Details

	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!
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