

Datasheet for ABIN3133930 LIG1 Protein (AA 1-916) (Strep Tag)



Overview

Quantity:	250 µg
Target:	LIG1
Protein Characteristics:	AA 1-916
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIG1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MQRSIMSFFQ PTKEGKAKKP EKETPSSIRE KEPPPKVALK ERNQVVPESD SPVKRTGRKV
	AQVLSCEGED EDEAPGTPKV QKPVSDSEQS SPPSPDTCPE NSPVFNCSSP MDISPSGFPK
	RRTARKQLPK RTIQDTLEEQ NEDKTKTAKK RKKEEETPKE SLAEAEDIKQ KEEKEGDQLI
	VPSEPTKSPE SVTLTKTENI PVCKAGVKLK PQEEEQSKPP ARGAKTLSSF FTPRKPAVKT
	EVKQEESGTL RKEETKGTLD PANYNPSKNN YHPIEDACWK HGQKVPFLAV ARTFEKIEEV
	SARLKMVETL SNLLRSVVAL SPPDLLPVLY LSLNRLGPPQ QGLELGVGDG VLLKAVAQAT
	GRQLESIRAE VAEKGDVGLV AENSRSTQRL MLPPPPLTIS GVFTKFCDIA RLTGSASMAK
	KMDIIKGLFV ACRHSEARYI ARSLSGRLRL GLAEQSVLAA LAQAVSLTPP GQEFPTVVVD
	AGKGKTAEAR KMWLEEQGMI LKQTFCEVPD LDRIIPVLLE HGLERLPEHC KLSPGVPLKP
	MLAHPTRGVS EVLKRFEEVD FTCEYKYDGQ RAQIHVLEGG EVKIFSRNQE DNTGKYPDII
	SRIPKIKHPS VTSFILDTEA VAWDREKKQI QPFQVLTTRK RKEVDASEIQ VQVCLYAFDL

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 ABIN3133930 | 02/25/2025 | Copyright antibodies-online. All rights reserved. IYLNGESLVR QPLSRRRQLL RENFVETEGE FVFTTSLDTK DTEQIAEFLE QSVKDSCEGL MVKTLDVDAT YEIAKRSHNW LKLKKDYLDG VGDTLDLVVI GAYLGRGKRA GRYGGFLLAA YDEESEELQA ICKLGTGFSD EELEEHHQSL QALVLPTPRP YVRIDGAVAP DHWLDPSIVW EVKCADLSLS PIYPAARGLV DKEKGISLRF PRFIRVRKDK QPEQATTSNQ VASLYRKQSQ IQNQQSSDLD SDVEDY

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 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:

- 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.

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Product Details

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:	LIG1
Alternative Name:	Lig1 (LIG1 Products)
Background:	DNA ligase 1 (EC 6.5.1.1) (DNA ligase I) (Polydeoxyribonucleotide synthase [ATP] 1),FUNCTION: DNA ligase that seals nicks in double-stranded during DNA repair. Also involved in DNA replication and DNA recombination. {ECO:0000250 UniProtKB:P18858}.
Molecular Weight:	102.3 kDa
UniProt:	P37913
Pathways:	Telomere Maintenance, DNA Damage Repair, DNA Replication, Synthesis of DNA

Application Details

Nicotiana tabacum c.v This contains all the protein expression machinery needed to pro even the most difficult-to-express proteins, including those that require post-translationa modifications.	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:	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

Restrictions:

For Research Use only

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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