

Datasheet for ABIN3093520

LIN54 Protein (AA 1-749) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	LIN54
Protein Characteristics:	AA 1-749
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIN54 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MEVVP AEVNS LLPEEIMDTG ITLVDDDSIE AVIVSSPIPM ETELEEIVNI NSTGDSTATP ISTEPITVYS</p> <p>NHTNQVAVNT TITKADSNTT VKPAFPSGLQ KLGAQTPVTI SANQIILNKV SQTSDLKLG</p> <p>QTLKPDGQKL ILTTLGKSGS PIVLALPHSQ LPQAQKVTTQ AQSGDAKLPP QQIKVVTIGG</p> <p>RPEVKPVIGV SALTPGSQLI NTTTTQPSVLQ TQQLKTVQIA KKPRTPTSGP VITKLIFAKP</p> <p>INSKAVTGQT TQVSPPIVAG RVLSQSTPGT PSKITITISES GVIGSTLNST TQTPNKIAIS</p> <p>PLKSPNKAVK STVQTITVGG VSTSQFKTII PLATAPNVQQ IQVPGSKFHY VRLVTATSAS</p> <p>SSTQPVSNP STNTQPLQQA KPVVVNTPV RMSVPIVSAQ AVKQVVPKPI NPTSQIVTTS</p> <p>QPQQLIMPA TPLPQIQPNL TNLPPGTVLA PAPGTGNVGY AVLPAQYVTQ LQQSSYVSIA</p> <p>SNSTFTGTSG IQTQARLPFN GIIPSESASR PRKPCNCTKS LCLKLYCDF ANGEFCNNCN</p> <p>CTNCYNNLEH ENERQKAIKA CLDRNPEAFK PKIGKGKEGE SDRRHSKGCN CKRSGCLKNY</p> <p>CECYEAKIMC SSICKCIGCK NFEESPERKT LMHLADAAEV RVQQQTAAKT KLSSQISDLL</p>

TRPTPALNSG GGKLPFTFVT KEVAEATCNC LLAQAEQADK KGKSKAAAER MILEEFGRCL
MSVINSAGKA KSDPCAMNC

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: LIN54

Alternative Name: LIN54 ([LIN54 Products](#))

Background: Protein lin-54 homolog (CXC domain-containing protein 1),FUNCTION: Component of the DREAM complex, a multiprotein complex that can both act as a transcription activator or repressor depending on the context (PubMed:17671431, PubMed:17531812). In G0 phase, the complex binds to more than 800 promoters and is required for repression of E2F target genes (PubMed:17671431, PubMed:17531812). In S phase, the complex selectively binds to the promoters of G2/M genes whose products are required for mitosis and participates in their cell cycle dependent activation (PubMed:17671431, PubMed:17531812). In the complex, acts as a DNA-binding protein that binds the promoter of CDK1 in a sequence-specific manner (PubMed:19725879). Specifically recognizes the consensus motif 5'-TTYRAA-3' in target DNA (PubMed:27465258). {ECO:0000269|PubMed:17531812, ECO:0000269|PubMed:17671431, ECO:0000269|PubMed:19725879, ECO:0000269|PubMed:27465258}.

Molecular Weight: 79.5 kDa

UniProt: [Q6MZIP](#)

Pathways: [Cell Division Cycle, Mitotic G1-G1/S Phases](#)

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.

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Application Details

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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