

Datasheet for ABIN3095541 SPIRE2 Protein (AA 1-714) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SPIRE2
Protein Characteristics:	AA 1-714
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPIRE2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MARAGSCGGA AAGAGRPEPW ELSLEEVLKA YEQPLNEEQA WAVCFQGCRG LRGSPGRRLR
	DTGDLLLRGD GSVGAREPEA AEPATMVVPL ASSEAQTVQS LGFAIYRALD WGLDESEERE
	LSPQLERLID LMANNDSEDS GCGAADEGYG GPEEEEAEG VPRSVRTFAQ AMRLCAARLT
	DPRGAQAHYQ AVCRALFVET LELRAFLARV REAKEMLQKL REDEPHLETP RAELDSLGHT
	DWARLWVQLM RELRRGVKLK KVQEQEFNPL PTEFQLTPFE MLMQDIRARN YKLRKVMVDG
	DIPPRVKKDA HELILDFIRS RPPLKQVSER RLRPLPPKQR SLHEKILEEI KQERRLRPVR
	GEGWAARGFG SLPCILNACS GDAKSTSCIN LSVTDAGGSA QRPRPRVLLK APTLAEMEEM
	NTSEEEESPC GEVTLKRDRS FSEHDLAQLR SEVASGLQSA THPPGGTEPP RPRAGSAHVW
	RPGSRDQGTC PASVSDPSHP LLSNRGSSGD RPEASMTPDA KHLWLEFSHP VESLALTVEE
	VMDVRRVLVK AEMEKFLQNK ELFSSLKKGK ICCCCRAKFP LFSWPPSCLF CKRAVCTSCS
	IKMKMPSKKF GHIPVYTLGF ESPQRVSAAK TAPIQRRDIF QSLQGPQWQS VEEAFPHIYS

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HGCVLKDVCS ECTSFVADVV RSSRKSVDVL NTTPRRSRQT QSLYIPNTRT LDFK

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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

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Product Details

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

 Grade:
 custom-made

Target Details

Target:	SPIRE2
Alternative Name:	SPIRE2 (SPIRE2 Products)
Background:	Protein spire homolog 2 (Spir-2),FUNCTION: Acts as an actin nucleation factor, remains
	associated with the slow-growing pointed end of the new filament (PubMed:21620703).
	Involved in intracellular vesicle transport along actin fibers, providing a novel link between actir
	cytoskeleton dynamics and intracellular transport (By similarity). Required for asymmetric
	spindle positioning and asymmetric cell division during meiosis (PubMed:21620703). Required
	for normal formation of the cleavage furrow and for polar body extrusion during female germ
	cell meiosis (PubMed:21620703). Also acts in the nucleus: together with SPIRE1 and SPIRE2,
	promotes assembly of nuclear actin filaments in response to DNA damage in order to facilitate
	movement of chromatin and repair factors after DNA damage (PubMed:26287480).
	{EC0:0000250 UniProtKB:Q8K1S6, EC0:0000269 PubMed:21620703,
	ECO:0000269 PubMed:26287480}.
Molecular Weight:	79.7 kDa
JniProt:	Q8WWL2
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:	guarantee though. ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
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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. 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