Datasheet for ABIN3130836

Kelch-like protein 41 (KLHL41) (AA 1-606) protein (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Kelch-like protein 41 (KLHL41)
Protein Characteristics:	AA 1-606
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MDSQRELAEE LRLYQSTLLQ DGLKDLLEEK KFIDCTLKAG DKSFPCHRLI LSACSPYFRE YFLSEIEEEK KKEVALDNVD PAILDLIIKY LYSASIDLND GNVQDIFALS SRFQIPSVFT VCVSYLQKRL APGNCLAILR LGLLLDCPRL AISAREFVSD RFVQICKEED FMQLSPQELI SVISNDSLNV EKEEVVFEAV MKWVRTDKEN RAKNLSEVFD CIRFRLMAEK YFKDHVEKDD IIKSNPEVQK KIKVLKDAFA GKLPEPSKNA EKAGAGEVNG DVGDEDLLPG YLNDIPRHGM FVKDLILLVN DTAAVAYDPM ENECYLTALA EQIPRNHSSL VTQQNQVYVV GGLYVDEENK DQPLQSYFFQ LDNVTSEWVG LPPLPSARCL FGLGEVDDKI YVVAGKDLQT EASLDSVLCY DPVAAKWSEV KNLPIKVYGH NVISHNGMIY CLGGKTDDKK CTNRVFIYNP KKGDWKDLAP MKTPRSMFGV AIHKGKIVIA GGVTEDGLSA SVEAFDLKTN KWEVMTEFPQ ERSSISLVSL AGALYAIGGF AMIQLESKEF APTEVNDIWK YEDDKKEWAG MLKEIRYASG ASCLATRLNL FKLSKL **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®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	Kelch-like protein 41 (KLHL41)
Alternative Name:	Klhl41 (KLHL41 Products)
Background:	Kelch-like protein 41 (Kelch repeat and BTB domain-containing protein 10),FUNCTION: Involved in skeletal muscle development and differentiation. Regulates proliferation and differentiation of myoblasts and plays a role in myofibril assembly by promoting lateral fusion of adjacent thin fibrils into mature, wide myofibrils. Required for pseudopod elongation in transformed cells. {ECO:0000269|PubMed:18178185, ECO:0000269|PubMed:21368295, ECO:0000269|PubMed:22562206}.
Molecular Weight:	68.2 kDa
UniProt:	A2AUC9

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 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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months