Datasheet for ABIN3136802

ELP2 Protein (AA 1-831) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ELP2
Protein Characteristics:	AA 1-831
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ELP2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MVSSVLEVSH VFCCPNRVRG ALSWNTGPGG LLAFGTSCSV VLYDPQKKVV ITNLNGHTAR VNCLQWIRTE DGSPSNELVS GGSDNRVIHW ELENNQVLKS VRLQGHEGPV CAVHAIYQSG PSEGEQHALI ASAASDSTVR IWSKKGSEVK YLQTLSFRDG FVLSVCLAIL PGTNVPVLAC GDDDCRIHLY IQQDDQFQKA LSLCGHEDWI RGVEWATFGR DLFLASCSQD CLIRIWRLYM KPASFETKDG SLRLKENTFT IKDGGVRTTV AVTLETVLAG HENWVNAVHW QPSFYKDGVL QQPVRLLSAS MDKTMILWAP DEESGVWLEQ VRVGEVGGNT LGFYDCQFGE NGTMIIAHAF HGALHLWKQS TVNPRQWAPE IVISGHFDGV QDLMWDPEGE FIITTSTDQT TRLFAPWKKK DQKDRSQVTW HEIARPQIHG YNIKCLAMID RFQFVSGADE KVLRVFSAPR NFVENFSVIS RQSLSHMLCD DQDLPEGATV PALGLSNKAL FQGDIASQPF EEDELISPAF GSPQVTFQPA VLNEPPTEDH LLQNTLWPEI QKLYGHGYEI VCVACNNSKT LLASACKASQ KEHAAIILWS TASWKQVQSL AFHTLTVTQM TFSPDDKFLL AVSRDRTWSL WKRQDATSSE FDPFFSLFAF

	TNKITSVHSR IIWSCDWSPD NKYFFTGSRD KKVVVWGECK SSHNPMEHPI RPCSSILDVG SSVTAVSVCP VLNPAQRYIV AIGLESGKIC IYSWNKTNQE INDWTSCVET NPSQSHSLGI RRLCWKSCSD DDDDDDDDDT EQSEEGPEWL HFASCGEDHT VKIYRVNRRA L **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

Product Details

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

Target Details

Target:	ELP2
Alternative Name:	Elp2 (ELP2 Products)
Background:	Elongator complex protein 2 (ELP2) (STAT3-interacting protein 1) (StIP1),FUNCTION: Component of the elongator complex which is required for multiple tRNA modifications, including mcm5U (5-methoxycarbonylmethyl uridine), mcm5s2U (5-methoxycarbonylmethyl-2-thiouridine), and ncm5U (5-carbamoylmethyl uridine). The elongator comple catalyzes the formation of carboxymethyluridine in the wobble base at position 34 in tRNAs. {ECO:0000250|UniProtKB:Q6IA86}.
Molecular Weight:	93.1 kDa
UniProt:	Q91WG4
Pathways:	Stem Cell Maintenance, Positive Regulation of Endopeptidase Activity, Protein targeting to Nucleus

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!

Application Details

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