Datasheet for ABIN3135202

COBL Protein (AA 1-1337) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	COBL
Protein Characteristics:	AA 1-1337
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This COBL protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MDAPRALAAK PPTGRKMKAR APPPPGKPAA QNVHSEQKLP HDATLGSQQS LVYMKEALQN STLDITVVLP SGLEKQSVVS GSHAMMDLLV ELCLQNHLNP SHHVLEIWSS ETQQPLSFKP NTLIGSLNVH TVLLKEKVPE ERVKPGLTKA PEKSVRLVVN YLRTQKAVVR VSPEVPLQNI LPVICAKCEV NPEHVILLRD NVAGEELELS KSLNELGIKE LYAWDNRREM FRKSSLGNDE TDKEKKKFLG FFKANKRSNS KAEHLGLSGA DSDEDPAKSA SGGDLNGCVT TPNSPSLHSR SLTLGPSLSL GNISGVSMKS DMKKRRAPPP PSPKLLGQDK VSEKASLSSQ ADLQKKKRRA PAPPPPQQPP PSPVVPNRKE DKEENRKSTV GVGRQVPQKP PRGTARGPPQ LVLPPPPPYP PPDTDVTEPV TFPGEGAGSE TSELRPKLSL PLGPGSHCSM GGVSQVPAES EETASEDTTE DSGVMSSPSD AISLDSQQDS MRSKDKWSTD QEDGSDQDLA GTPELGPQKS PSWGKSGSGS SILRTEKATM PTNDDEDLFI TGHLHQTLAE LDEDLEGMEE NYETDTSSLT NSVNGVSNHS LQEAIIPDSG VDDIPVTFIG EVSDEPFDSG LFSSRCNNAT TFNTGSIASQ RSHLSPSQTE

HSQPFVRTSR KEPDPSPPSQ DNRKRNQPTL ANTSENENPV ETDPTVTSLV SKLLIDDPKA KDKGKVHGSS HSEKTQAGHG INSLRVNPRD GKDESSNSAP PPWSHHGQAL GGSYGLKYGL TTYKIVPPKS EMRCYDRDVS LSTGAIKIDE LGNLVSPHMN GSRTISPPSA VVETDTPPIG KVKEFWRRNS MEKYLNGPAE CTIKRAPSTT ITATPEKPQQ DNGMKAAFTV TTPQQQPASQ EYGAHLEEER SRPQSAVSCS VKVPASNPTD ITFLKPQRRT SSQYVASAIA KKMGPPKVHA DVVRPHKATT EQCHEEAKLA RSPPTRKDDA APNLHSEARQ HEHGTNQSSV CLPSNPGVQL PAGGHPKVEV NSTYGKSSTQ DYPAAVHRNS YFLPGRSSHR DRVSVGQSCG FNEKQTTSNQ KANSTSNFSQ ALDKAHPPPL LLAEARDSGR ILMNGSARTP GNCEPPHSPK ESTLTSYIIL QTEEKPSSLS TDGQDADDTL PSSIFGPKKK FKPVIQRPLP KDVSLHSALM EAIHSSGGRE KLRKTAEQTS EGRPKKPSYV EAESERSALL AAIRGHSGTL SLRKVSSLAS EELQSFRNAA LGAPGLDKPQ QEDLGLPPPP ALPPPPAPAP QAPSASVTVS RFSTGTPSNS VNARQALMDA IRSGTGAARL RKVPLLV

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

Product Details

	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:	COBL
Alternative Name:	Cobl (COBL Products)
Background:	Protein cordon-bleu,FUNCTION: Plays an important role in the reorganization of the actin cytoskeleton. Binds to and sequesters actin monomers (G actin). Nucleates actin polymerization by assembling three actin monomers in cross-filament orientation and thereby promotes growth of actin filaments at the barbed end. Can also mediate actin depolymerization at barbed ends and severing of actin filaments. Promotes formation of cell ruffles. Regulates neuron morphogenesis and increases branching of axons and dendrites. Regulates dendrite branching in Purkinje cells. {ECO:0000269|PubMed:17956734, ECO:0000269|PubMed:23223303}.
Molecular Weight:	143.9 kDa
UniProt:	Q5NBX1

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

Application Details

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