Datasheet for ABIN3134639

CUX2 Protein (AA 1-1426) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CUX2
Protein Characteristics:	AA 1-1426
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CUX2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MVAPVLKSFQ AEVVALSKRS REAEAAFLSV YKQLIEAPDP VPSFEVARTL DDRLQRPSFD PSGQRLQDVH IAWKRCPEPP SAREQNEGTC PTGHTPANGN HLPGPEDTLV TDTLLQKNEA ERQKGLQEVH ITLAARLGEA EEKIKVLHSA LKATQTELLE LRRKYDEEAA SKADEVGLIM TNLEKANQRA EAAQREVESL REQLASVNSS IRLACCSPQG PSGEKVSFAL CSGPRLEAAL ASKDREILRL LKDAQQLRHS LQELEEVSAN QIADLERQLA AKSEAIEKLQ EKLEAQADYE EIKTELSILR AMKLASSTCS LPQTLAKPDD PLLVAKDVFF PTQKFLLEKP ALLASPEEDP SEDDSIKGSL GTEPPYPPQL PPPPGPEDPL SPSPAQPLLG PSLGPDGPRT FSLSPFPSLA PGERLAGDSL LSKHMMGPAA FKGETGNLLA FPPTFYGGAK PPSAPAASVP CPEPTGAPEA VDGAGPEEEQ LDTAEIAFQV KEQLLKHNIG QRVFGHYVLG LSQGSVSEIL ARPKPWRKLT VKGKEPFIKM KQFLSDEQNV LALRTIQVRQ RGSITPRIRT PETGSDDAIK SILEQAKKEI ESQKGGESKN SPASVSIPNG TASSSTSEDA IKNILEQARR EMQAQQQALL EMESGPRGRS

VPPSPPERPS PATASQNGAL TCVKQEDGGG GSGSSSTVQA PLAVLSPAAF VQRIIRKVKS EIGDAGYFDH HWASDRGLLS RPYASVSPSL SSSSSYSGQP NGRAWPRGDE ATIAPEDEAA MGEDEAPRVG ELKAEAGAPE VGGGRLPYYP AYVPRTLKPT VPPLTPEQYE LYMYREVDTL ELTRQVKEKL AKNGICQRIF GEKVLGLSQG SVSDMLSRPK PWSKLTQKGR EPFIRMQLWL SDQLGQGQGQ APTQQPSASQ ASPTEPTSSP SPPPSPTEPE KTSQEPLGLS LESSKENQQP EGRASSSLGG KPFSSSQAAG GIQEMVAMSP ELDTYSITKR VKEVLTDNNL GQRLFGESIL GLTQGSVSDL LSRPKPWHKL SLKGREPFVR MQLWLSDPHN VEKLRDMKKL EKKAYLKRRY GLIGTGSDSE SPAAHSECPS PCLQPQELSL MQAKKPRVVL APAEKEALRK AYQLEPYPSQ QTIELLSFQL NLKTNTVINW FHNYRSRMRR EMLVEGTQDD PDFDPSGGPN VLTPGHTHRE PTPQSPDSET EDQKPPMKSL ELQEPEGPLQ RAAPDRALVK IKQEEGLEVD GDSQPQDVGD PDRGQDGPKE EHTHPLGNSD LSELAPGPFL SGTPNPDCPS LHNPQEKGTG EQVHSEPLSF KSTSESSCCS LEGPPNSPSV ISSPDLTTCV SPAPSSSAPI SPSLPGAPPA KVPSTSPTGD TAAALHPSTK VNPNLQRRHE KMANLNSIIY RLERAANREE VLEWEF

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

Product Details

	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:	CUX2
Alternative Name:	Cux2 (CUX2 Products)
Background:	Homeobox protein cut-like 2 (Homeobox protein Cux-2),FUNCTION: Transcription factor involved in the control of neuronal proliferation and differentiation in the brain (PubMed:18033766, PubMed:20510857). Regulates dendrite development and branching, dendritic spine formation, and synaptogenesis in cortical layers II-III (PubMed:20510857). Binds to DNA in a sequence-specific manner. {ECO:0000269|PubMed:18033766, ECO:0000269|PubMed:20510857}.
Molecular Weight:	154.7 kDa
UniProt:	P70298

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