Datasheet for ABIN3092026

CUX2 Protein (AA 1-1486) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CUX2
Protein Characteristics:	AA 1-1486
Origin:	Human
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:	MAANVGSMFQ YWKRFDLRRL QKELNSVASE LSARQEESEH SHKHLIELRR EFKKNVPEEI REMVAPVLKS FQAEVVALSK RSQEAEAAFL SVYKQLIEAP DPVPVFEAAR SLDDRLQPPS FDPSGQPRRD LHTSWKRNPE LLSPKEQREG TSPAGPTLTE GSRLPGIPGK ALLTETLLQR NEAEKQKGLQ EVQITLAARL GEAEEKIKVL HSALKATQAE LLELRRKYDE EAASKADEVG LIMTNLEKAN QRAEAAQREV ESLREQLASV NSSIRLACCS PQGPSGDKVN FTLCSGPRLE AALASKDREI LRLLKDVQHL QSSLQELEEA SANQIADLER QLTAKSEAIE KLEEKLQAQS DYEEIKTELS ILKAMKLASS TCSLPQGMAK PEDSLLIAKE AFFPTQKFLL EKPSLLASPE EDPSEDDSIK DSLGTEQSYP SPQQLPPPPG PEDPLSPSPG QPLLGPSLGP DGTRTFSLSP FPSLASGERL MMPPAAFKGE AGGLLVFPPA FYGAKPPTAP ATPAPGPEPL GGPEPADGGG GGAAGPGAEE EQLDTAEIAF QVKEQLLKHN IGQRVFGHYV LGLSQGSVSE ILARPKPWRK LTVKGKEPFI KMKQFLSDEQ NVLALRTIQV RQRGSITPRI RTPETGSDDA IKSILEQAKK

EIESQKGGEP KTSVAPLSIA NGTTPASTSE DAIKSILEQA RREMQAQQQA LLEMEVAPRG RSVPPSPPER PSLATASQNG APALVKQEEG SGGPAQAPLP VLSPAAFVQS IIRKVKSEIG DAGYFDHHWA SDRGLLSRPY ASVSPSLSSS SSSGYSGQPN GRAWPRGDEA PVPPEDEAAA GAEDEPPRTG ELKAEGATAE AGARLPYYPA YVPRTLKPTV PPLTPEQYEL YMYREVDTLE LTRQVKEKLA KNGICQRIFG EKVLGLSQGS VSDMLSRPKP WSKLTQKGRE PFIRMQLWLS DQLGQAVGQQ PGASQASPTE PRSSPSPPPS PTEPEKSSQE PLSLSLESSK ENQQPEGRSS SSLSGKMYSG SQAPGGIQEI VAMSPELDTY SITKRVKEVL TDNNLGQRLF GESILGLTQG SVSDLLSRPK PWHKLSLKGR EPFVRMQLWL NDPHNVEKLR DMKKLEKKAY LKRRYGLIST GSDSESPATR SECPSPCLQP QDLSLLQIKK PRVVLAPEEK EALRKAYQLE PYPSQQTIEL LSFQLNLKTN TVINWFHNYR SRMRREMLVE GTQDEPDLDP SGGPGILPPG HSHPDPTPQS PDSETEDQKP TVKELELQEG PEENSTPLTT QDKAQVRIKQ EQMEEDAEEE AGSQPQDSGE LDKGQGPPKE EHPDPPGNDG LPKVAPGPLL PGGSTPDCPS LHPQQESEAG ERLHPDPLSF KSASESSRCS LEVSLNSPSA ASSPGLMMSV SPVPSSSAPI SPSPPGAPPA KVPSASPTAD MAGALHPSAK VNPNLQRRHE KMANLNNIIY RVERAANREE ALEWEF

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

Product Details

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:	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. Regulates dendrite development and branching, dendritic spine formation, and synaptogenesis in cortical layers II-III. Binds to DNA in a sequence-specific manner. {ECO:0000250|UniProtKB:P70298}.
Molecular Weight:	161.7 kDa
UniProt:	O14529

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

Application Details

	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