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Datasheet for ABIN3131703

CTNND2 Protein (AA 1-1247) (Strep Tag)

Overview

Quantity:	250 µg
Target:	CTNND2
Protein Characteristics:	AA 1-1247
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTNND2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MFARKQSGAA PFGAMPVPDQ PPSASEKNSS LSPGLNTSNG DGSETET TSA ILASVKEQEL QFERLTRELE AERQIVASQL ERCKLGSETG SMSSISSAGE QFHWQTQDGQ KDIEDELTTG LELVDSCIRS LQESGILDPQ DYSTSERPSL LSQSALQLNS KPEGSFQYPA SYHSNQTLAL GDTAPSQLPA RSTQARAAGQ SFSQGTTGRA GHLAGSEPAP PPPPPREPFA PSLGSAFHLP DAPPAAAAAY YSSSTLPAPP RGG SPLTTTQ GGSPTKLQRG GSAPEGAAYA APRGSSPKQS PSRLAKSYST SSPINIVSS AGLSPIRVTS PPTVQSTISS SPIHQLSSTI GTYATLSPTK RLVHASEQYS KHSQELYATA TLQRPGSLAA GSRASYSSQH GH LAPELRAL QSPEHHIDPI YEDRVYQKPP MRSLSQSQGD PLPPAHTGT F RTSTAPSSPG VDSVPLQRTG SQHG PQNAAA ATFQRASYAA GPASNYADPY RQLQYCASVD SPYKSGPAL PPEGTLARSP SIDSIQKDPR EFGWRDPELP EVIQMLQH QF PSVQSNAAAY LQHLCFGDNK IKAEIRRQGG IQLLVDLLDH RMTEVHR SAC GALRNLVYGK ANDDNKIALK NCGGIPALVR LLRKTTDL EI RELVTGVLWN

LSSCDALKMP IIQDALAVLT NAVIIPHSGW ENSPLQDDRK IQLHSSQVLR NATGCLRNV
SAGEEARRRM RECDGLTDAL LYVIQSALGS SEIDSKTVEN CVCILRNLSY RLAAETSQGG
HMGTDGLDGL LCGETNGKDT ESSGCWGKKK KKKKSQDQWD GVGPLPDCAE PPKGIQMLWH
PSIVKPYLTL LSECSNPDTL EGAAGALQNL AAGSWKGWAE DVAGMAYALR SLPEGAPCLP
QWSVYIRAAV RKEKGLPILV ELLRIDNDRV VCAVATALRN MALDVRNKL IGKYAMRDLV
HRLPGGNNSN NSGSKAMSDD TVTAVCCTLH EVITKNMENA KALRDAGGIE KLVGISKSKG
DKHSPKVVKA ASQVLNSMWQ YRDLRSLYKK DGWSQYHFVA SSSTIERDRQ RPYSSSRTPS
ISPVRVSPNN RSASAPASPR EMISLKERKT DYESAGNNAT YHGTKGEHTS RKDTMTAQNT
GVSTLYRNSY GAPAEDIKQN QVSTQVPQE PSRKDYETYQ PFPNSTRNYD ESFFEDQVHH
RPPASEYTMH LGLKSTGNVY DFYSAARPYS ELNYETSHYP ASPDSWV

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!

Product Details

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

Target:	CTNND2
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Alternative Name:	Ctnnd2 (CTNND2 Products)
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Background:	<p>Catenin delta-2 (Neural plakophilin-related ARM-repeat protein) (NPRAP) (Neurojungin),FUNCTION: Has a critical role in neuronal development, particularly in the formation and/or maintenance of dendritic spines and synapses (PubMed:17993462) (PubMed:25807484). Involved in the regulation of canonical Wnt signaling (By similarity). It probably acts on beta-catenin turnover, facilitating beta-catenin interaction with GSK3B, phosphorylation, ubiquitination and degradation (PubMed:20623542). May be involved in neuronal cell adhesion and tissue morphogenesis and integrity by regulating adhesion molecules. Functions as a transcriptional activator when bound to ZBTB33 (PubMed:15282317). {ECO:0000250 UniProtKB:Q9UQB3, ECO:0000269 PubMed:15282317, ECO:0000269 PubMed:17993462, ECO:0000269 PubMed:20623542, ECO:0000269 PubMed:25807484, ECO:0000269 PubMed:9971746}.</p>
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Molecular Weight:	135.0 kDa
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UniProt:	O35927
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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.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months