

Datasheet for ABIN3134840

CAPRIN2 Protein (AA 1-1031) (Strep Tag)[Go to Product page](#)

Overview

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|-------------------------------|--|
| Quantity: | 250 µg |
| Target: | CAPRIN2 |
| Protein Characteristics: | AA 1-1031 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CAPRIN2 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

| | |
|-----------|--|
| Brand: | AliCE® |
| Sequence: | MKSAKSQVNIQ DQQGENQRAL SPLQSTLSSA ASPSQAYETY IDNGLICLKH KIRNIEKKKL KLEDYKDRLEK NGEQLNPDQL EAVEKYEEVL HNLEFAKELQ KTFSALSQDL LKAQKKAQRR EHMLKLETEK KKLRTMLQIQ YVLQNLQTEH VQKDFKGGGLN GAMYLPSKEL DYLIKFSKLT CPERNESLSV EDQMEQSSLY FWDLLEGSEK TVVGTTYKHV KDLLSKLLHS GYFESVPVLR NSKEKAEVL MQSEMKKQLL KSESIKESL LTELQPEIQ PQEFLNRRYM TEVKFSRKQE NVEQSWEADY ARKPSLLKCW NTLPEPDGQE KKKESLESWK SSLKTQEVSK PVSLSVQGKL RPTLQEEQKQ QVPITPVSQW KPESPKSKVG SPQEEQNVQE TPKPWVVSQ KEQDPKCLPP GSWAVSVQSE QSGSRSWTTP VCREQASVQP GTPVSWENNA ENQKHSVLPQ SQISLKSWSGA ASAGLLPNGQ VLTRKLNVEP KDVPKPLPQP IDSSSALPKD PVLKREKLQD LMSQIQGTYN FMQESVLDLDFD KPSSAIPSSQ PPSACPVSTV SAEQNLSNQS DFLQEPSQAS SPVTCSSNAC LVTDDQASSG SETEFTTSET PEMVVSPPCKP KPASALASPN PPLSKSFQLP PASGSSEAIS |

TAPFQAMQTV FNVNAPLPPR KEQEMKEPPY SSGYNQNFTS SSTQTVSQCQ LPAVHIDQTT
QPPETGAGYH PDGTVQVSNG SLAFYPAPTS MFPRPAQPF I SSRGTLRGCS HGGRLLMSSY
QSPGGYKGF D SYRGLPSVSS GNYSQLQLQA REYSGTAYSQ RDNFQQCYKR SGTSSGLQAN
SRAGWSDSSQ VSSPERDSET FNSGDSGLGD SRSMTVPDVP VTSPAAA ILP VHIYPLPQQM
RVAFSAARTS NLAPGTL DQP IVFDLLLNNL GETFDLQLGR FNCPVNGTYV FIFHMLKLAV
NVPLYVNL MK NEEVLVSAYA NDGAPDHETA SNHAVLQLLQ GDQIWLRLHR GAIYGSSWKY
STFSGYLLYQ D

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.

Product Details

- 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: CAPRIN2

Alternative Name: Caprin2 ([CAPRIN2 Products](#))

Background: Caprin-2 (C1q domain-containing protein 1) (Cytoplasmic activation/proliferation-associated protein 2) (RNA granule protein 140),FUNCTION: Promotes phosphorylation of the Wnt coreceptor LRP6, leading to increased activity of the canonical Wnt signaling pathway (By similarity). Facilitates constitutive LRP6 phosphorylation by CDK14/CCNY during G2/M stage of the cell cycle, which may potentiate cells for Wnt signaling (By similarity). May regulate the transport and translation of mRNAs, modulating for instance the expression of proteins involved in synaptic plasticity in neurons (PubMed:20516077). Involved in regulation of growth as erythroblasts shift from a highly proliferative state towards their terminal phase of differentiation (By similarity). May be involved in apoptosis (By similarity). {ECO:0000250|UniProtKB:Q6IMN6, ECO:0000269|PubMed:20516077}.

Molecular Weight: 114.5 kDa

UniProt: [Q05A80](#)

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.

Application Details

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