

Datasheet for ABIN3090255

CAPRIN2 Protein (AA 1-1127) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	CAPRIN2
Protein Characteristics:	AA 1-1127
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CAPRIN2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MEVQVSQASL GFELTSVEKS LREWSRLSRE VIAWLCPSPP NFILNFPPPP SASSVSMVQL
FSSPFGYQSP SGHSEEEREG NMKSAKPQVN HSQHGESQRA LSPLQSTLSS AASPSQAYET
YIENGLICKL HKIRNIEKKK LKLEDYKDRL KSGEHLNPDQ LEAVEKYEEV LHNLEFAKEL
QKTFSGLSLD LLKAQKKAQR REHMLKLEAE KKKLRITLQV QYVLQNLQEQ HVQKDFKGG
NGAVYLPKSK LDYLIKFSKL TPCERNESLS VEDQMEQSSL YFWDLLEGSE KAVVGTTYKH
LKDLLSKLLN SGYFESIPVP KNAKEKEVPL EEEMLIQSEK KTQLSKTESV KESESLMEFA
QPEIQPQEFL NRRYMTEVDY SNKQGEEQPW EADYARKPNL PKRWDMLTEP DGQEKKQESF
KSWEASGKHQ EVSKPAVSLE QRKQDTSKLR STLPEEQKKQ EISKSKPSPS QWKQDTPKSK
AGYVQEEQKK QETPKLWPVQ LQKEQDPKKQ TPKSWTPSMQ SEQNTTKSWT TPMCEEQDSK
QPETPKSWEN NVESQKHSLS SQSQISPKSW GVATASLIPN DQLLPRKLNT EPKDVPKPVH
QPVGSSSTLP KDPVLRKEKL QDLMTQIQGT CNFMQESVLD FDKPSSAIPT SQPPSATPGS
PVASKEQNLS SQSDFLQEPL QATSSPVTCS SNACLVTTDQ ASSGSETEFM TSETPEAAIP

PGKQPSSLAS PNPPMAKGSE QGFQSPPASS SSVTINTAPF QAMQTVFNVN APLPPRKEQE
IKESPYSPTYG NQSFTTASTQ TPPQCQLPSI HVEQTVHSQE TAANYHPDGT IQVSNGLAF
YPAQTNVFPF PTQPFVNSRG SVRGCTRGRG LITNSYRSPG GYKGFDTYRG LPSISNGNYS
QLQFQAREYS GAPYSQRDNF QQCYKRGGS GGPRANSRAG WSDSSQVSSP ERDNETFNNG
DSGQGDSRSM TPVDVPVTNP AATILPVHVV PLPQQMRVAF SAARTSNLAP GTLDQPIVFD
LLLNNLGETF DLQLGRFNCP VNGTYVFIFH MLKLAVNVPL YVNLMKNEEV LVSAYANDGA
PDHETASNHA ILQLFQGDQI WLRLHRGAIY GSSWKYSTFS GYLLYQD

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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:

Product Details

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	CAPRIN2
Alternative Name:	CAPRIN2 (CAPRIN2 Products)
Background:	<p>Caprin-2 (C1q domain-containing protein 1) (Cytoplasmic activation/proliferation-associated protein 2) (Gastric cancer multidrug resistance-associated protein) (Protein EEG-1) (RNA granule protein 140),FUNCTION: Promotes phosphorylation of the Wnt coreceptor LRP6, leading to increased activity of the canonical Wnt signaling pathway (PubMed:18762581). Facilitates constitutive LRP6 phosphorylation by CDK14/CCNY during G2/M stage of the cell cycle, which may potentiate cells for Wnt signaling (PubMed:27821587). May regulate the transport and translation of mRNAs, modulating for instance the expression of proteins involved in synaptic plasticity in neurons (By similarity). Involved in regulation of growth as erythroblasts shift from a highly proliferative state towards their terminal phase of differentiation (PubMed:14593112). May be involved in apoptosis (PubMed:14593112). {ECO:0000250 UniProtKB:Q05A80, ECO:0000269 PubMed:14593112, ECO:0000269 PubMed:18762581, ECO:0000269 PubMed:27821587}.</p>
Molecular Weight:	125.9 kDa
UniProt:	Q6IMN6

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.

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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process