

Datasheet for ABIN3095433
**Shroom Family Member 4 (SHROOM4) (AA 1-1493) protein
 (Strep Tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	Shroom Family Member 4 (SHROOM4)
Protein Characteristics:	AA 1-1493
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MENRPGSFQY VPVQLQGGAP WGFTLKGGL E HCEPLTVSKI EDGGKAALSQ KMRTGDELVN INGTPLYGSR QEALILIKGS FRILKLIVRR RNAPVSRPHS WHVAKLLEGC PEAATTMHFP SEAFSLSWHS GCNTSDVCVQ WCPLSRHCST EKSSSIGSME SLEQPGQATY ESHLLPIDQN MYPNQRDSAY SSFSASSNAS DCALSLRPEE PASTDCIMQG PGPTKAPSGR PNVAETSGGS RRTNGGHLTP SSQMSSRPQE GYQSGPAKAV RGPPQPPVRR DSLQASRAQL LNQEQRRASE PVVPLPQKEK LSLEPVLPAR NPNRFCCLSG HDQVTSEGHQ NCEFSQPPES SQQGSEHLLM QASTKAVGSP KACDRASSVD SNPLNEASAE LAKASFGRRP HLIPTGHRH SAPEQLLASH LQHVHLDTRG SKGMELPPVQ DGHQWTLSP L HSSHKGKKSP CPPTGGTHDQ SSKERKTRQV DDRSLVLGHQ SQSSPPHGEA DGHPEKGF L DPNRTSRAAS ELANQQPSAS GSLVQQATDC SSTTKAASGT EAGEEGDSEP KECSRMGRR SGGTRGRSIQ NRRKSERFAT NLRNEIQRK AQLQKSKGPL SQLCDTKEPV EETQEPPESP PLTASNTSL L SSCKKPPSPR DKLFNKSMML RARSSECLSQ APESHESRTG LEGRISPGQR PGQSSLGLNT WWKAPDPSSS DPEKAHAHCG</p>
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VRGGHWRWSP EHNSQPLVAA AMEGPSNPGD NKELKASTAQ AGEDAILLPF ADRRKFFEES
SKSLSTSHLP GLTTHSNKTF TQRPKPIDQN FQPMSSSCRE LRRHPMDQSY HSADQPYHAT
DQSYHMSPL QSETPTYSEC FASKGLENSM CCKPLHCGDF DYHRTCSYSC SVQGALVHDP
CIYCSGEICP ALLKRNMPN CYNCRCHHHQ CIRCSVCYHN PQHSALEDSS LAPGNTWKPR
KLTVQEFPGD KWNPITGNRK TSQSGREMAH SKTSFSWATP FHPCLNPAL DLSSYRAISS
LDLLGDFKHA LKKSEETSVY EEGSSLASMP HPLRSRAFSE SHISLAPQST RAWGQHRREL
FSKGDQSD LLGARKKAFP PPRPPPPNWE KYRLFRAAQ QKQQQQQKQ QEEEEEEEE
EEEEEEEEEE EAEIEEEELP PQYFSSETSG SCALNPEEVLE EQPQLSFGH LEGSRQGSQS
VPAEQESFAL HSSDFLPPIR GHLGSQPEQA QPPCYYGIGG LWRTSGQEAT ESAKQEFQHF
SPPSGAPGIP TSYSAYYNIS VAKAELLNKL KDQPEMAEIG LGEEVDHEL AQKKIQLIES
ISRKLSVLRE AQRGLLEDIN ANSALGEEVE ANLKAVCKSN EFEKYHLFVG DLDKVVNLLL
SLSGRLARVE NALNSIDSEA NQEKLVLIEK KQQLTGQLAD AKELKEHVDR REKLVFGMVS
RYLPQDQLQD YQHFVKMKSA LIIEQRELEE KIKLGEEQLK CLRESLLLGP SNF

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

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 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®): 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:	Shroom Family Member 4 (SHROOM4)
Alternative Name:	SHROOM4 (SHROOM4 Products)
Background:	Protein Shroom4 (Second homolog of apical protein),FUNCTION: Probable regulator of cytoskeletal architecture that plays an important role in development. May regulate cellular and cytoskeletal architecture by modulating the spatial distribution of myosin II (By similarity). {ECO:0000250, ECO:0000269 PubMed:16684770}.
Molecular Weight:	164.9 kDa
UniProt:	Q9ULL8

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