Datasheet for ABIN3130784

SHROOM2 Protein (AA 1-1481) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SHROOM2
Protein Characteristics:	AA 1-1481
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SHROOM2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MEGAEPRARP ERLAEAEAPA TDGVRLVEVQ LSGGAPWGFT LKGGREHGEP LVITKIEEGS KAAAVDKLLA GDEIVAINDV SLSGFRQEAI CLVKGSHKTL KLVVKRKSDP SWRPHSWHAT KYFDVHPEPA ASLFLNTSGS PSWKSQHQAS SSSHDLSGSW EHTSLQRTSD HFSSMGSIDS LDHSSQLYPS GHLSSAKSNS SIDHLGGHSK RDSAYGSFST CSSTPDHTLP KADASSTENI LYKVGLWEAS RPGSSRQSQS TGDPQGLQDR PSCFIPRVPG NSSKSPRPED NVEPKIATHG RSNFGPVWYV PDKKKAPSPP PLGLPLRSDS FSVAARGHEK ARGPPFSDLA SMQHFITLPH VQPRGDHRME TTDRQWKLTH LSSGKEIGNV GYQSEGHLDC RWLCSDDRAG RPSGPPGRLQ FSDVHFLKSY HGSQHQQQCS DESPRAPSSP RELLHITPGG GLQEPPEPSQ DDNPTQVRWP GSAHQKLDDR GRSHYFPGSL RQPVQGSAQV VIPRGDYWHS DTTPVDLEYP LLRPVGQRTY LQQHEETPAS HEKEGYHQLN AGIEGCCSGI QEPPRASRTV RTGLQCPSND FKLVDGESGR ISRQRTPMLH SLTQDGTWRP GNSKDCGNDK PPLFDAQVGK PTRRSDRFAT TLRNEIQMRR

AKLQKSKSTV TLAGDSEAED CAGDWRADVG AVPEGSFPST YKEHLKEAQT RVLKATSFQR RDLDPTPADQ YSGPSEHRTF DHSASSSLSS FPGEPDSAPR FCETGLAKAP SSGVGVPHVL RIGGRKRFTA EQKLKSYSEP EKINEVGLSG DHRPHPTVRT PEDTVGTFAD RWKFFEETSK SLLQKAGHRQ VHCGLPREKA ERPQTGHHEC ESTEPWFQKR SLATSCGEIL SDRKVEKASE KLNPPRRLGT FAEYQASWKE QKKPLEARSS GRYHSADDIL DAGLDQQQRP QYIHERSRSS PSTDHYSQEV PVEPNRQAED SGDHKEAILC TLQAEEGCSA PSAQPQDSQH VNEDTTFPQP ETQLSSKCQH LQTSAMETSR SPSPQFAPQK LTDKPPLLIH EDNSARIERV MDNNTTVKMV PIKIVHSESQ PEKESRQSLA CPAELPPLPS GLERDQIKTL STSEQCYSRF CVYTRQEVEA PHRARPPEPR PPSTPAPPVR DSCSSPPSLN YGKAKEKTMD DLKSEELARE IVGKDKSLAD ILDPSVKIKT TMDLMEGIFP KDEYLLEEAQ QRRKLLPKVP LPRVTEDKKQ DPGMPGVVSL ATNSTYYSTS APKAELLIKM KDLQEPEEYS AGDLDHDLSV KKQELIDSIS RKLQVLREAR ESLLEDIQAN NALGDEVEAI VKDVCKPNEF DKFRMFIGDL DKVVNLLLSL SGRLARVENA LNNLDDNPSP GDRQSLLEKQ RVLTQQHEDA KELKENLDRR ERIVFDILAT YLSEENLADY EHFVKMKSAL IIEQRELEDK IHLGEEQLKC LFDSLQPERS K

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:	SHROOM2
Alternative Name:	Shroom2 (SHROOM2 Products)
Background:	Protein Shroom2 (Protein Apxl),FUNCTION: May be involved in endothelial cell morphology changes during cell spreading. In the retinal pigment epithelium, may regulate the biogenesis of melanosomes and promote their association with the apical cell surface by inducing gamma-tubulin redistribution. {ECO:0000269|PubMed:16684770, ECO:0000269|PubMed:16987870}.
Molecular Weight:	164.7 kDa
UniProt:	A2ALU4
Pathways:	Cell-Cell Junction Organization, Asymmetric Protein Localization

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

Application Details

	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. 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