

Datasheet for ABIN3089102

## ARAP1 Protein (AA 1-1450) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ARAP1
Protein Characteristics:	AA 1-1450
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARAP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MAEAGDAALS VAEWLRLHL EQYTGLFEQH GLVWATECQG LSDTRLMDMG MLLPGHRRRI</p> <p>LAGLLRAHTS PAPAPRPTPR PVPMKRHIFR SPPVPATPPE PLPTTTEDEG LPAAPPIPPR</p> <p>RSCLPPTCFT TPSTAAPDPV LPPLPAKRHL AELSVPPVPP RTGPPRLLVS LPTKEEESLL</p> <p>PSLSSPPQPQ SEEPLSTLPQ GPPQPPSPPP CPPEIPPKPV RLFPEFDDSD YDEVPEEGPG</p> <p>APARVMTKKE EPPPSRVPR VVRVASLLSEG EELSGDDQGD EEEDDHAYEG VPNGGWHTSS</p> <p>LSLSLPSTIA APHPMDGPPG GSTPVTPIK AGWLDKNPPQ GSYIYQKRWW RLDTDHLRYF</p> <p>DSNKDAYSKR FISVACISHV AAIGDQKFEV ITNNRTFAFR AESDVERKEW MQALQQAMAE</p> <p>QRARARLSSA YLLGVPGSEQ PDRAGSLELR GFKNKLYVAV VGDKVQLYKN LEEYHLGIGI</p> <p>TFIDMSVGNV KEVDRRSFDL TTPYRIFSFS ADSELEKEQW LEAMQGAIAE ALSTSEVAER</p> <p>IWAAAPNRF C ADCGAPQPDW ASINLCVVIC KRCAGEHRGL GAGVSKVRSL KMDRKVWTET</p> <p>LIELFLQLGN GAGNRFWAAN VPPSEALQPS SSPSTRRCHL EAKYREGKYR RYHPLFGNQE</p>

ELDKALCAAV TTTDLAETQA LLGCGAGINC FSGDPEAPTP LALAEQAGQT LQMEFLRNNR  
TTEVPRLD SM KPLEKHYSVV LPTVSHSGFL YKTASAGKLL QDRRAREEFS RRWCVLGDGV  
LSYFENERAV TPNGEIRASE IVCLAVPPPD THGFEHTFEV YTEGERLYLF GLESAEQAHE  
VWKCIKAFV PPLAEDLLAR DFERLGRLPY KAGLSLQRAQ EGWFSLSGSE LRAVFPEGPC  
EEPLQLRKLQ ELSIQGDSN QVLVLVERRR TLYIQGERRL DFMGWLGAIQ KAAASMGDTL  
SEQQLGSDSI PVIVYRCVDY ITQCGLTSEG IYRKGQTSK TQRLLES LRQ DARSVHLKEG  
EQHVDDVSSA LKRFLRDLPD GLFTRAQRLT WLEASEIEDE EEKVSRYREL LVRLPPVNRA  
TVKALISHLY CVQCFSDTNQ MNVHNLAIVF GPTLFQTDGQ DYKAGRVVED LINHYVVVFS  
VDEEELRKQR EEITAIVKMR VAGTASGTQH AGDFICTVYL EEKKAETEQH IKVPASMTAE  
ELTLEILDRR NVGIREKDYW TCFEVNEREE AERPLHFAEK VLPILHGLGT DSHLVVKKHQ  
AMEAMLLYLA SRVGDTKHGM MKFREDRSL GLGLPSGGFH DRYFILNSSC LRLYKEVRSQ  
RPWSGAPETS HRPEKEWPIK SLKVYLG VKK KLRPPTCWGF TVVHETEKHE KQQWYLCDDT  
QMELREWFAT FLFVQHDGLV WPSEPSRVSR AVPEVRLGSV SLIPLRGSEN EMRRSVA AFT  
ADPLSLLRNV

**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.**

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### 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:	ARAP1
Alternative Name:	ARAP1 ( <a href="#">ARAP1 Products</a> )
Background:	Arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing protein 1 (Centaurin-delta-2) (Cnt-d2),FUNCTION: Phosphatidylinositol 3,4,5-trisphosphate-dependent GTPase-activating protein that modulates actin cytoskeleton remodeling by regulating ARF and RHO family members. Is activated by phosphatidylinositol 3,4,5-trisphosphate (PtdIns(3,4,5)P3) binding. Can be activated by phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4,5)P2) binding, albeit with lower efficiency. Has a preference for ARF1 and ARF5 (By similarity). {ECO:0000250, ECO:0000269 PubMed:11804590}.
Molecular Weight:	162.2 kDa
UniProt:	<a href="#">Q96P48</a>

## 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

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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

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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 <b>Might differ depending on protein.</b></p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months