

Datasheet for ABIN3089102

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



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	ARAP1
Protein Characteristics:	AA 1-1450
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARAP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence:	MAEAGDAALS VAEWLRALHL EQYTGLFEQH GLVWATECQG LSDTRLMDMG MLLPGHRRRI LAGLLRAHTS PAPAPRPTPR PVPMKRHIFR SPPVPATPPE PLPTTTEDEG LPAAPPPIPR RSCLPPTCFT TPSTAAPDPV LPPLPAKRHL AELSVPPVPP RTGPPRLLVS LPTKEEESLL PSLSPPQPQ SEEPLSTLPQ GPPQPPSPPP CPPEIPPKPV RLFPEFDDSD YDEVPEEGPG APARVMTKKE EPPPSRVPRV VRVASLLSEG EELSGDDQGD EEEDDHAYEG VPNGGWHTSS LSLSLPSTIA APHPMDGPPG GSTPVTPIK AGWLDKNPPQ GSYIYQKRWW RLDTDHLRYF DSNKDAYSKR FISVACISHV AAIGDQKFEV ITNNRTFAFR AESDVERKEW MQALQQAMAE QRARARLSSA YLLGVPGSEQ PDRAGSLELR GFKNKLYVAV VGDKVQLYKN LEEYHLGIGI TFIDMSVGNV KEVDRRSFDL TTPYRIFSFS ADSELEKEQW LEAMQGAIAE ALSTSEVAER IWAAAPNRF ADCGAPQPDW ASINLCVIC KRCAGEHRGL GAGVSKVRSK KMDRKVWTET LIELFLQLGN GAGNRFWAAN VPPSEALQPS SSPSTRRCHL EAKYREGKYR RYHPLFGNQE ELDKALCAAV TTTDLAETQA LLGCGAGINC FSGDPEAFTP LALAEQAGQT LQMEFLRNNR
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TTEVPRLD SM KPLEKHYSVV LPTVSHSGFL YKTASAGKLL QDRRAREEFS RRWCVLGDGV  
LSYFENERAV TPNGEIRASE IVCLAVPPPD THGFEHTFEV YTEGERLYLF GLESAEQAE  
WVKCIAKAFV PPLAEDLLAR DFERLGR LPY KAGLSLQRAQ EGWFSLSGSE LRAVFP EGPC  
EEPLQLRKLQ ELSIQG DSEN QVLVLVERRR TLYIQGERRL DFMGWLGA IQ KAAASMGDTL  
SEQQLGSDI PVIVYRCVDY ITQCGLTSEG IYRKCQT SK TQRLL ESLRQ DARSVHLKEG  
EQHVDDVSSA LKRFLRDLPD GLFTRAQRLT WLEASEIEDE EEKVSRYREL LVRLPPVNRA  
TVKALISHLY CVQCFSDTNQ MNVHNLAI VF GPTLFQTDGQ DYKAGRVVED LINHYVVVFS  
VDEEELRKQR EEITAIVKMR VAGTASGTQH AGDFICTVYL EEKKAETEQH IKVPASMTAE  
ELTLEILDRR NVGIREKDYW TCFEVNEREE AERPLHFAEK VLPILHGLGT DSHLVVKKHQ  
AMEAMLLYLA SRVGDTKHGM MKFREDRSL L GLGLPSGGFH DRYFILN SSC LRLYKEVRSQ  
RPWSGAPETS HRPEKEWPIK SLKVYLG VKK KLRPPTCWGF TVVHETEKHE KQQWYLCCDT  
QMELREWFAT FLVQHDGLV WPSEPSRVSR AVPEVRLG SV SLIPLRGS EN 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 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

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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.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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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

## Target Details

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UniProt: [Q96P48](#)

## Application Details

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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

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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