Datasheet for ABIN3137365

# ASAP1 Protein (AA 1-1147) (Strep Tag)

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## Overview

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| Quantity: | 250 µg |
| Target: | ASAP1 |
| Protein Characteristics: | AA 1-1147 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ASAP1 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

## Product Details

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| Brand: | AliCE® |
| Sequence: | MRSSASRLSS FSSRDSLWNR MPDQISVSEF IAETTEDYNS PTTSSFTTRL HNCRNTVTLL EEALDQDRTA LQKVKKSVKA IYNSGQDHVQ NEENYAQVLD KFGSNFLSRD NPDLGTAFVK FSTLTKELST LLKNLLQGLS HNVIFTLDSL LKGDLKGVKG DLKKPFDKAW KDYETKFTKI EKEKREHAKQ HGMIRTEITG AEIAEEMEKE RRLFQLQMCE YLIKVNEIKT KKGVDLLQNL IKYYHAQCNF FQDGLKTADK LKQYIEKLAA DLYNIKQTQD EEKKQLTALR DLIKSSLQLD PKEVGGLYVA SRANSSRRDS QSRQGGYSMH QLQGNKEYGS EKKGFLLKKS DGIRKVWQRR KCAVKNGILT ISHATSNRQP AKLNLLTCQV KPNAEDKKSF DLISHNRTYH FQAEDEQDYI AWISVLTNSK EEALTMAFRG EQSTGENSLE DLTKAIIEDV QRLPGNDICC DCGSSEPTWL STNLGILTCI ECSGIHREMG VHISRIQSLE LDKLGTSELL LAKNVGNNSF NDIMEANLPS PSPKPTPSSD MTVRKEYITA KYVDHRFSRK TCASSSAKLN ELLEAIKSRD LLALIQVYAE GVELMEPLLE PGQELGETAL HLAVRTADQT SLHLVDFLVQ NCGNLDKQTS VGNTVLHYCS |

MYGKPECLKL LLRSKPTVDI VNQNGETALD IAKRLKATQC EDLLSQAKSG KFNPHVHVEY EWNLRQDEMD ESDDDLDDKP SPIKKERSPR PQSFCHSSSI SPQDKLALPG FSTPRDKQRL SYGAFTNQIF ASTSTDLPTS PTSEAPPLPP RNAGKGPTGP PSTLPLGTQT SSGSSTLSKK RPPPPPPGHK RTLSDPPSPL PHGPPNKGAI PWGNDVGPLS SSKTANKFEG LSQQASTSSA KTALGPRVLP KLPQKVALRK TETSHHLSLD RTNIPPETFQ KSSQLTELPQ KPPLGELPPK PVELAPKPQV GELPPKPGEL PPKPQLGDLP PKPQLSDLPP KPQMKDLPPK PQLGDLLAKS QAGDVSAKVQ PPSEVTQRSH TGDLSPNVQS RDAIQKQASE DSNDLTPTLP ETPVPLPRKI NTGKNKVRRV KTIYDCQADN DDELTFIEGE VIIVTGEEDQ EWWIGHIEGQ PERKGVFPVS FVHILSD

**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 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!

## Product Details

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| | Concentration:<br>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.<br>• The protein's absorbance will be measured against its specific reference buffer.<br>• 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

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| Target: | ASAP1 |
| Alternative Name: | Asap1 (ASAP1 Products) |
| Background: | Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 1 (130 kDa phosphatidylinositol 4,5-bisphosphate-dependent ARF1 GTPase-activating protein) (ADP-ribosylation factor-directed GTPase-activating protein 1) (ARF GTPase-activating protein 1) (Development and differentiation-enhancing factor 1) (DEF-1) (Differentiation-enhancing factor 1) (PIP2-dependent ARF1 GAP),FUNCTION: May function as a signal transduction protein involved in the differentiation of fibroblasts into adipocytes and possibly other cell types. Posseses phosphatidylinositol 4,5-bisphosphate-dependent GTPase-activating protein activity for ARF1 (ADP ribosylation factor 1) and ARF5 and a lesser activity towards ARF6. May coordinate membrane trafficking with cell growth or actin cytoskeleton remodeling by binding to both SRC and PIP2. Part of the ciliary targeting complex containing Rab11, ASAP1, Rabin8/RAB3IP, RAB11FIP3 and ARF4, which direct preciliary vesicle trafficking to mother centriole and ciliogenesis initiation (By similarity). {ECO:0000250, ECO:0000250\|UniProtKB:Q9ULH1}. |
| Molecular Weight: | 127.4 kDa |
| UniProt: | Q9QWY8 |

## 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 |

## Application Details

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| | 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.<br>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.<br>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 |