

Datasheet for ABIN3088423

## ADD2 Protein (AA 1-726) (Strep Tag)



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### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 250 µg  |
| Target:                       | ADD2  |
| Protein Characteristics:      | AA 1-726                                      |
| Origin:                       | Human   |
| Source:                       | Cell-free protein synthesis (CFPS)            |
| Protein Type:                 | Recombinant                                   |
| Purification tag / Conjugate: | This ADD2 protein is labelled with Strep Tag. |
| Application:                  | ELISA, Western Blotting (WB), SDS-PAGE (SDS)  |

### Product Details

|           |   |
|-----------|---|
| Brand:    | AliCE®  |
| Sequence: | <p>MSEETVPEAA SPPPPQGQPY FDRFSEDDPE YMRLRNRAAD LRQDFNLMEQ KKRVTMILQS</p> <p>PSFREELEGL IQEQMKKGNN SSNIWALRQI ADFMASTSHA VFPTSSMNVS MMTPINDLHT</p> <p>ADSLNLAKGE RLMRCKISSV YRLLDLYGWA QLSDTYVTLR VSKEQDHFLI SPKGVSCSEV</p> <p>TASSLIKVNI LGEVVEKGSS CFPVDTTGFC LHSIAAARP DVRCIIHLHT PATAAVSAMK</p> <p>WGLLPVSHNA LLVGDMAYYD FNGEMEQUEAD RINLQKCLGP TCKILVLRNH GVVALGDTVE</p> <p>EAFYKIFHLQ AACEIQVSAL SSAGGVENLI LLEQEKHRPH EVGSVQWAGS TFGPMQKSRL</p> <p>GEHEFEALMR MLDNLGYRTG YTYRHPFVQE KTKHKSEVEI PATVTAFVFE EDGAPVPALR</p> <p>QHAQKQKQKEK TRWLNTPNNTY LRVNVADEVQ RSMGSPRPKT TWMKADEVK SSSGMPRIE</p> <p>NPNQFVPLYT DPQEVLEMNRN KIREQNRQDV KSAGPQSLL ASVIAEKSRS PSTESQLMSK</p> <p>GDEDTKDDSE ETVPNPFSQL TDQEEYK EVERKKLELD GEKETAPEEP GSPAKSAPAS</p> <p>PVQSPAKEAE TKSPLVSPSK SLEEGTKKTE TSKAATTEPE TTQPEGVVVN GREEEQTAEE</p> |

ILSKGLSQMT TSADTDVDTS KDKTESVTSG PMSPEGSPSK SPSKKKKKFR TPSFLKKSKK  
KEKVES

**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 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.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

## Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: ADD2

Alternative Name: ADD2 ([ADD2 Products](#))

Background: Beta-adducin (Erythrocyte adducin subunit beta),FUNCTION: Membrane-cytoskeleton-associated protein that promotes the assembly of the spectrin-actin network. Binds to the erythrocyte membrane receptor SLC2A1/GLUT1 and may therefore provide a link between the spectrin cytoskeleton to the plasma membrane. Binds to calmodulin. Calmodulin binds preferentially to the beta subunit. {ECO:0000269|PubMed:18347014}.

Molecular Weight: 80.9 kDa

UniProt: [P35612](#)

Pathways: [Regulation of Actin Filament Polymerization](#)

## 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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Restrictions: For Research Use only

## Handling

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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