

## Datasheet for ABIN3082118 ISY1 Protein (AA 1-285) (Strep Tag)



Overview

| Quantity:                     | 250 μg                                        |
|-------------------------------|-----------------------------------------------|
| Target:                       | ISY1                                          |
| Protein Characteristics:      | AA 1-285                                      |
| Origin:                       | Human                                         |
| Source:                       | Cell-free protein synthesis (CFPS)            |
| Protein Type:                 | Recombinant                                   |
| Purification tag / Conjugate: | This ISY1 protein is labelled with Strep Tag. |
| Application:                  | ELISA, Western Blotting (WB), SDS-PAGE (SDS)  |

### Product Details

| Brand:           | AliCE®                                                                                      |
|------------------|---------------------------------------------------------------------------------------------|
| Sequence:        | MARNAEKAMT ALARFRQAQL EEGKVKERRP FLASECTELP KAEKWRRQII GEISKKVAQI                           |
|                  | QNAGLGEFRI RDLNDEINKL LREKGHWEVR IKELGGPDYG KVGPKMLDHE GKEVPGNRGY                           |
|                  | KYFGAAKDLP GVRELFEKEP LPPPRKTRAE LMKAIDFEYY GYLDEDDGVI VPLEQEYEKK                           |
|                  | LRAELVEKWK AEREARLARG EKEEEEEEE EINIYAVTEE ESDEEGSQEK GGDDSQQKFI                            |
|                  | AHVPVPSQQE IEEALVRRKK MELLQKYASE TLQAQSEEAR RLLGY                                           |
|                  | 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.      |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3082118 | 02/26/2025 | Copyright antibodies-online. All rights reserved.

- 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.

| 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:           | ISY1                 |
|-------------------|----------------------|
| Alternative Name: | ISY1 (ISY1 Products) |

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## Target Details

| (By similarity). Required for the biogenesis of all mIRNAs from the pri-miR-17-92 primary         (By similarity). Required for the biogenesis of mIR-290 ar         96 from the pri-miR-290.295 and pri-miR-96-183 primary transcripts, respectively (By si         Required during the transition of embryonic stem cells (ESCs) from the naive to primed         (By similarity). By enhancing mIRNA biogenesis, promotes exit of ESCs from the naive to primed         (By similarity). By enhancing mIRNA biogenesis, promotes exit of ESCs from the naive to primed         (By similarity). By enhancing mIRNA biogenesis, promotes exit of ESCs from the naive to primed         (By similarity). By enhancing mIRNA biogenesis, promotes exit of ESCs from the naive to primed         (By similarity). Involved in pre-mRNA splicing as component of the spliceosome.         (ECO.0000250[UniProtKB.Q69202, ECO.0000269]PubMed:25599396).         Molecular Weight:       33.0 kDa         UniProt:       O9ULR0         Application Details       In addition to the applications listed above we expect the protein to work for functional states are used. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.         Comment:       AL.CE39, our Almost Living Cell-Free Expression System is based on a lysate obtained for Nicotiana tabacum c.v This contains all the protein expression machinery needed to preven the most difficult-to-express proteins, including those that require post-translation modifications.         During lysate production, the cell wall and other cellular components that                                                                                                                                                                                          | Background:         | Pre-mRNA-splicing factor ISY1 homolog,FUNCTION: Component of the spliceosome C complex            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------|
| transcript except miR-92a (By similarity). Only required for the biogenesis of miR-920 at 96 from the primiR-290-295 and primiR-96-183 primary transcripts, respectively (By sin Required during the transition of embryonic stem cells (ESCs) from the naive to primed (By similarity). By enhancing miRNA biogenesis, promotes exit of ESCs from the naive s an intermediate state of polsed pluripotency, which precedes transition to the primed st similarity). Involved in pre-mRNA splicing as component of the spliceasome. (EC0:0000250]UniProtKB:Q692Q2, EC0:0000269]PubMed:29301961, EC0:0000305]PubMed:11991638, EC0:0000305]PubMed:25599396).         Molecular Weight:       33.0 kDa         UniProt:       O9ULR0         Application Notes:       In addition to the applications listed above we expect the protein to work for functional s as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.         Comment:       ALICE9, our Almost Living Cell-Free Expression System is based on a lysate obtained for Nicotiana tabacoum c.v This contains all the protein expression machinery needed to pr even the most difficul-to-express proteins, including those that require post-translation modifications.         During lysate production, the cell wall and other cellular components that are not require portein 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 p something that functione like a cell, but without the constraints of a living system - all th needed is the DNA that codes for the desired protein!         Restrictions:       For Research Use only |                     | required for the selective processing of microRNAs during embryonic stem cell differentiation     |
| 96 from the primiR-290-295 and pri-miR-96-183 primary transcripts, respectively (By sin         Required during the transition of embryonic stem cells (ESCs) from the naive to primed         (By similarity). By enhancing miRNA biogenesis, promotes exit of ESCs from the naive s         an intermediate state of poised pluripotency, which precedes transition to the primed st         similarity). Involved in pre-mRNA splicing as component of the spliceosome.         (EC0:0000250]UniProtKB:Q69ZQ, EC0:0000305]PubMed:25599396).         Molecular Weight:       33.0 kDa         UniProt:       Q9ULRO         Application Details       In addition to the applications listed above we expect the protein to work for functional s         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 for         Nicotiana tabacum c.v This contains all the protein production machinery needed to pr         protein production are removed, leaving only the protein production machinery and the         mitochondria to drive the reaction. During our lysate completin steps, the additional         components needed for protein production (amino acids, cofactors, etc.) are added to p         something that functions like a cell, but without the constraints of a living system - all th         needed is the DNA that codes for the desired protein!         Re                                                                                                                                                                                                                                                                                                 |                     | (By similarity). Required for the biogenesis of all miRNAs from the pri-miR-17-92 primary         |
| Required during the transition of embryonic stem cells (ESCs) from the naive to primed       Required during the transition of embryonic stem cells (ESCs) from the naive to primed         (By similarity). By enhancing miRNA biogenesis, promotes exit of ESCs from the naive s       an intermediate state of poised pluripotency, which precedes transition to the primed st         similarity). Involved in pre-mRNA splicing as component of the splicecosome.       (ECO:00002501UniProtKB:Q69ZQ; ECO:0000269IPubMed:25599396).         Molecular Weight:       33.0 kDa         UniProt:       Q9ULRO         Application Details       In addition to the applications listed above we expect the protein to work for functional s         as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.       guarantee though.         Comment:       ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained for Nicotiana tabacum c.v This contains all the protein expression machinery needed to preven the most difficult-to-express proteins, including those that require post-translation modifications.         During lysate production, the cell wall and other cellular components that are not require 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 p something that functions like a cell, but without the constraints of a living system - all th needed is the DNA that codes for the desired protein!         Restrictions:       For                                                                                                     |                     | transcript except miR-92a (By similarity). Only required for the biogenesis of miR-290 and miR-   |
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| needed is the DNA that codes for the desired protein!         Restrictions:       For Research Use only         Handling         Format:       Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | components needed for protein production (amino acids, cofactors, etc.) are added to produce      |
| Restrictions: For Research Use only Handling Format: Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     | something that functions like a cell, but without the constraints of a living system - all that's |
| Handling<br>Format: Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     | needed is the DNA that codes for the desired protein!                                             |
| Format: Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Restrictions:       | For Research Use only                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Handling            |                                                                                                   |
| Buffer: The buffer composition is at the discretion of the manufacturer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Format:             | Liquid                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Buffer:             | The buffer composition is at the discretion of the manufacturer.                                  |

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# Handling

|                  | 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                                                                             |