

Datasheet for ABIN3129208

## PPIL2 Protein (AA 1-521) (Strep Tag)



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### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 250 µg   |
| Target:                       | PPIL2  |
| Protein Characteristics:      | AA 1-521                                       |
| Origin:                       | Mouse  |
| Source:                       | Cell-free protein synthesis (CFPS)             |
| Protein Type:                 | Recombinant                                    |
| Purification tag / Conjugate: | This PPIL2 protein is labelled with Strep Tag. |
| Application:                  | SDS-PAGE (SDS), ELISA, Western Blotting (WB)   |

### Product Details

|           |  |
|-----------|--|
| Brand:    | AliCE®   |
| Sequence: | <p>MGKRQHQQDK MYITCAEYTH FYGGRKPDIS QTSFRRLPFD HCSLSLQPFV YPVCTPEGVV<br/>           FDLLNIVPWL KKYGTNPSTG EKLDGKSLIK LNFKNSEGG YHCPVLYSVF TDNTHIVAIR<br/>           TTGNVYTYEA VEQLNIKAKN LRDLLTDEPF SRQDIITLQD PTNLDFKNVS NFFHVKNMNR<br/>           IIDPDEEKAK QDPSYYLKNT NSETRETLQE LYKEFKGDEI LAATMRPPEK KKVDQLNAAH<br/>           YSTGKVSASF TSTAMVPETT HEAAVIDEDV LRYQFVKKKG YVRLHTNKGDLNLELHCDLT<br/>           PKTCENFIKL CKKQYYDGTI FHRISIRNFVI QGGDPTGTGT GGESFWGKPF KDEFRPNLSH<br/>           TGRGVLSMAN SGPNTNKSQF FITFRSCAYL DKKHTIFGRV VGGFDTLTAM ENVESDPKTD<br/>           RPKEEVLICT TTVFVDPYEE ADAQIAQERK KTQHQVDPEA KVKMSQPQPG NQGPQTYRQG<br/>           VGKYIHPAAT KRSAAEEEPST STATPTAKKR PSRGFGDFSS W</p> <p><b>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</b></p> |

### 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®).

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#### Purity:

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

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#### Grade:

custom-made

## Target Details

|                   |   |
|-------------------|---|
| Target:           | PPIL2   |
| Alternative Name: | Ppil2 ( <a href="#">PPIL2 Products</a> )  |
| Background:       | <p>RING-type E3 ubiquitin-protein ligase PPIL2 (EC 2.3.2.27) (CYC4) (Probable inactive peptidyl-prolyl cis-trans isomerase-like 2) (PPlase),FUNCTION: Has a ubiquitin-protein ligase activity acting as an E3 ubiquitin protein ligase or as an ubiquitin-ubiquitin ligase promoting elongation of ubiquitin chains on substrates. By mediating 'Lys-48'-linked polyubiquitination of proteins could target them for proteasomal degradation. May also function as a chaperone, playing a role in transport to the cell membrane of BSG/Basigin for instance. Probable inactive PPlase with no peptidyl-prolyl cis-trans isomerase activity. As a component of the minor spliceosome, involved in the splicing of U12-type introns in pre-mRNAs (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q13356}.</p> |
| Molecular Weight: | 59.1 kDa  |
| UniProt:          | <a href="#">Q9D787</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.   |
| 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> |
| Restrictions:      | For Research Use only  |

## Handling

|         |        |
|---------|--------|
| Format: | Liquid |
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## Handling

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|                  |  |
|------------------|--|
| Buffer:          | The buffer composition is at the discretion of the manufacturer.<br>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b> |
| Handling Advice: | Avoid repeated freeze-thaw cycles.   |
| Storage:         | -80 °C   |
| Storage Comment: | Store at -80°C.  |
| Expiry Date:     | 12 months  |