

Datasheet for ABIN3135128

PACS2 Protein (AA 1-862) (Strep Tag)



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Overview

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| Quantity: | 250 µg |
| Target: | PACS2 |
| Protein Characteristics: | AA 1-862 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PACS2 protein is labelled with Strep Tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA |

Product Details

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| Brand: | AliCE® |
| Sequence: | MAERGRLGLP GAPGALNTPV PMNLFATWEV DGSSPSCVPR LCSLTLKKLA VLRELEKELL SVVIKVMQY PHFLKREGNK LQIMLQRRKR YKNRTILGYK TLAAGSINMA EVMQHPSEGG QVLSLCSSIK EASVKVAEIW IVSLSSQPID HEDSAMQAGP KTKSTDNYSE EEYESFSSEQ EASDDAVQGG DLDEDDFDVG KPKKQRRSIV RTTSMTRQQN FKQKVALLR RFKVSEEVLD SEQDPAEHVP EVEDLDLLY DTLDVENPSD SGPDMDDDDV VLSTPKPKLR PYFEGLSHSS SQTEIGSIHS ARSHREPPSP ADVPEKTRSL GKGQQLSDSV SDTVALSAV PREPSGQPED SPEAETSTLD VFTEKLPPSG RIIKTESLVI PSTRSESKPA GRRGRSTSLK ERQPARPQNE RANSLDNERC PDTRSQLQIP RKTVDYQLNH ILISDDQLPE NIILVNTSDW QGQFLSDVLQ KHTLPVVCTC SAADVQAQAFS TIVSRIQRYC NCNSQPPTPV KIAVAGAHY LSAILRLFVE QLSHKTPDWL GYMRFLIPL GSHPVARYLG SVDYRYNNFF QDLAWRDLFN KLEAQSSVQD TPDIVSRITQ YISGANCAHQ LPIAEAMLT YKQKSPDEESS QRFIPFVG VV KVGIVEPSSA |

TSGDSDDAAP SSSSILSSTP PSASTSPAAPK EASPTPPSSP SVSGGLSSPS QGVGAELMGL
QVDYWTAAPQ ADRKRDAEKK DMPTTKNTLK CTFRSLQVSR LPSSGEAAAT PTMSMTVVTK
EKNKKVMFLP KKTKDKEVES KSQCIEGISR LICTAKHQQN MLRVLIDGVE CSDVKFFQLA
AQWSSHVKHF PICIFGHSKA TF

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!

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.

Product Details

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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 |
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Target Details

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| Target: | PACS2 |
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| Alternative Name: | Pacs2 (PACS2 Products) |
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| Background: | Phosphofurin acidic cluster sorting protein 2 (PACS-2) (PACS1-like protein),FUNCTION: Multifunctional sorting protein that controls the endoplasmic reticulum (ER)-mitochondria communication, including the apposition of mitochondria with the ER and ER homeostasis. In addition, in response to apoptotic inducer, translocates BIB to mitochondria, which initiates a sequence of events including the formation of mitochondrial truncated BID, the release of cytochrome c, the activation of caspase-3 thereby causing cell death. May also involved in ion channel trafficking, directing acidic cluster-containing ion channels to distinct subcellular compartments (By similarity). {ECO:0000250 UniProtKB:Q86VP3}. |
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| Molecular Weight: | 94.9 kDa |
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| UniProt: | Q3V3Q7 |
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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. |
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| 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</p> |
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Application Details

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| | 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. 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 |