

Datasheet for ABIN3091162

CFAP61 Protein (AA 1-1237) (Strep Tag)



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Overview

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| Quantity: | 250 µg |
| Target: | CFAP61 |
| Protein Characteristics: | AA 1-1237 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CFAP61 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

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| Brand: | AliCE® |
| Sequence: | <p>MSVLTSPRGK VEVVHCRRTE SQDVYCIKSL IRKFTCKLFG KLNIIYLLEK ANLAVTLCND</p> <p>KEEIMAQATF LDYPNWNVAK QDDWVSVFRE LDSDIPCTPL NTLFMHLFVA VDEYSVGCCCK</p> <p>EILRTVYKAV PELHFIFLIV PSYMSLGSTL ITVFDQVGNI PCLTYEEDFA VHICHRHSHY</p> <p>PQLHVRKARV EDHDDLMPHF MRYDTILKET YGEYFLAELI EAQDEENHAV VCEVEGTAVG</p> <p>FMSVCSRVM QLLHECFDLG PFHGLCFPHP DDVLESPQDL SVRRSQDAEL RSSSQGSQKI</p> <p>VEELQEPVSP DTMENIQGNI AREAASEEAL TAVQSGNVSE PEDIEKLSDI STGYAQYHHV</p> <p>SSRSLASLVL PEEPVHFRPI YRGASAAFCI QLFCIDEKYE ARSLDFMNFV FSLFSDKNFC</p> <p>VISLPHLTPE FFLIQNFVKM VPFNTCTLEQ DLYVFHFRAGL LKSINIRFAT LLDTPGVENL</p> <p>VSTLMLNKSI LEDLDRYNKA RKDPDGTLQ AFVAEVAEQI VGIIVIRNEM DIEYIRSHYN</p> <p>IEDFIYFSHH QREEHGHMHH FALNPIFRHY TKFFLKEILR LGFKSCLYYR VYPKSREGKF</p> <p>QNPYAHSPTS ALHYLVPVRP RRQIVYPLEK LGINAPSKAV SKDPMSYALN HTNRKLTLEP</p> |

KITVNAKIIV VGASSVGISF LETLVFCSHM KFNNLTLIST HGLPGKKLLD TEQRKFLASD
HCFNDKDYL MSLCSWVNVV VGRMTGIDRA AKHVVLSTDE IVPYDHLILC TGQQYQVPCP
TEADISQHLT NREVPNSSQR RYTGKVP CNH FTLNEEEDCF KALIWIRNNS ITTEGNIIVY
GNTIDTYTTV ETLNLGVSG SRIHLVQPPP ASTITCINNY SVESAVADAL GAAGVTMYRD
AILAQWNDGL HPDPIYSASF TTPTKPFRLQ CSMFFSFCEK NVDYETFKAL NDACLVYDSR
LVIDTNFHTN DIAIRAAGSL TKFSNRYYSN EWTSHNFSSK EIGFQLAAAM LHLFDPTLEP
VTEPPANLDR LIPMYKGAKI QGGILPGSYH YLHIAKPAIP TPLEVQMAQP NYGLELVTGS
AKNGTYFRIH INKYK MVETI TCLSREPFA SNYIRLFGQH EQLLNNLCAR YDENLITDLY
SYFTEPWCLA LFHDRFIDLR KELRQILASK EEEDLPSIEQ LAHQIEDEEI NPTEKPRQYL
KRVFEESIYK TLVERSTLDY LHYNRYHLPM YAWPGIV

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

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 |
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Target Details

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| Target: | CFAP61 |
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| Alternative Name: | CFAP61 (CFAP61 Products) |
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| Background: | Cilia- and flagella-associated protein 61,FUNCTION: Involved in sperm flagellum assembly (PubMed:34792097, PubMed:35174165). Plays an essential role in the formation of the radial spokes in flagellum axoneme (By similarity). {ECO:0000250 UniProtKB:Q8CEL2, ECO:0000269 PubMed:34792097, ECO:0000269 PubMed:35174165}. |
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|-------------------|-----------|
| Molecular Weight: | 141.3 kDa |
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| UniProt: | Q8NHU2 |
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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</p> |
|----------|---|

Application Details

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

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