

Datasheet for ABIN3094629

PHC3 Protein (AA 1-983) (Strep Tag)



[Go to Product page](#)

Overview

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| Quantity: | 250 µg |
| Target: | PHC3 |
| Protein Characteristics: | AA 1-983 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PHC3 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Brand: | AliCE® |
| Sequence: | <p>MDTEPNPGTS SVSTTTSTTT TTTITTSSSR MQQPQISVYS GSDRHAVQVI QQALHRPPSS</p> <p>AAQYLQQMYA AQQQHMLMLHT AALQQQHLSS SQLQSLAAVQ ASLSSGRPST SPTGSVTQQS</p> <p>SMSQTSINLS TSPTPAQLIS RSQASSSTSG SITQQTMLLG STSPTLTASQ AQMYLRAQML</p> <p>IFTPATTVAA VQSDIPVVSS SSSSSCQSAA TQVQNLTLSR QKLGLVSSSQ NGPPKSTSQT</p> <p>QSLTICHNKT TVTSSKISQR DPSPESENKKG ESPSLESRST AVTRTSSIHQ LIAPASYSPI</p> <p>QPHSLIKHQQ IPLHSPPSKV SHHQLILQQQ QQQIQPITLQ NSTQDPPPSQ HCIPLQNHGL</p> <p>PPAPSNAQSQ HCSPIQSHPS PLTVSPNQSQ SAQQSVVVSP PPPHSPSQSP TIIHPQALI</p> <p>QPHPLVSSAL QPGPNLQQST ANQVQATAQL NLPShLPLPA SPVVHIGPVQ QSALVSPGQQ</p> <p>IVSPSHQQYS SLQSSPIPIA SPPQMSTSP AQIPPLPLQS MQSLQVQPEI LSQGQVLVQN</p> <p>ALVSEELPA AEALVQLPFQ TLPPPQTVAV NLQVQPPAPV DPPVYQVED VCEEEMPEES</p> <p>DECVRMDRTP PPPTLSPAAI TVGRGEDLTS EHPLLEQVEL PAVASVSASV IKSPSDPSHV</p> |

SVPPPPLLLP AATTRSNSTS MHSSIPSIEN KPPQAIVKPQ ILTHVIEGFV IQEGLEFPFV
SRSSLLIEQP VKKRPLLDNQ VINSVCVQPE LQNNTKHADN SSDTEMEDMI AEETLEEMDS
ELLKCEFCGK MGYANEFLRS KRFC TMSCAK RYNVSCSKKF ALSRWNRKPD NQSLGHRGRR
PSGPDGAARE HILRQLPITY PSAEEDLASH EDSVPSAMTT RLRRQSERER ERELDRVIR
KMPENS DLLP VAQTEPSIWT VDDVWAFIHS LPGCQDIADE FRAQEIDGQA LLLLKEDHLM
SAMNIKL GPA LKICARINSL KES

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.

Product Details

- 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: | PHC3 |
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| Alternative Name: | PHC3 (PHC3 Products) |
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| Background: | <p>Polyhomeotic-like protein 3 (Early development regulatory protein 3) (Homolog of polyhomeotic 3) (hPH3),FUNCTION: Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones, it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility.</p> <p>{ECO:0000269 PubMed:12167701}.</p> |
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| Molecular Weight: | 106.2 kDa |
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| UniProt: | Q8NDX5 |
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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</p> |
|----------|--|

Application Details

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