

Datasheet for ABIN3089999

Basonuclin 1 Protein (BNC1) (AA 1-994) (Strep Tag)



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Overview

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|-------------------------------|---|
| Quantity: | 250 µg |
| Target: | Basonuclin 1 (BNC1) |
| Protein Characteristics: | AA 1-994 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Basonuclin 1 protein is labelled with Strep Tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA |

Product Details

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|-----------|---|
| Brand: | AliCE® |
| Sequence: | <p>MRRRPPSRGG RGAARARETR RQPRHRSGRR MAEAI SCTLN CSCQSFKPGK INHRQCDQCK</p> <p>HGWVAHALSK LRIPPMYPTS QVEIVQSNVV FDISSLMLYG TQAIPVRLKI LLDRLFSVLK</p> <p>QDEVLQILHA LDWTLQDYIR GYVLQDASGK VLDHWSIMTS EEEVATLQQF LRFGETKSIV</p> <p>ELMAIQEKEE QSIIPPSTA NVDIRAFIES CSHRSSSLPT PVDKGNPSSI HPFENLISNM</p> <p>TFMLPFQFFN PLPPALIGSL PEQYMLEQGH DQSQDPKQEV HGPFPDSSFL TSSSTPFQVE</p> <p>KDQCLNCPDA ITKKEDSTHL SDSSSYNIVT KFERTQLSPE AKVKPERNSL GTKKGRVFCT</p> <p>ACEKTFYDKG TLKIHYNAVH LKIKHKCTIE GCNMVFSSLR SRNRHSANPN PRLHMPMNRN</p> <p>NRDKDLRNSL NLASSENKYC PGFTVTSPDC RPPPSYPGSG EDSKGQPAFP NIGQNGVLFP</p> <p>NLKTVPVLP FYRSPATPAE VANTPGILPS LPLLSSSIPE QLISNEMPFD ALPKKKSRSK</p> <p>SMPIKIEKEA VEIANEKRNH LSSDEDMPLQ VVSEDEQEAC SPQSHRVSEE QHVQSGGLGK</p> <p>PFPEGERPCH RESVIESSGA ISQTPEQATH NSERETEQTP ALIMVPREVE DGGHEHYFTP</p> |

GMEPQVPFSD YMELQQRLLA GGLFSALSNR GMAFPCLEDS KELEHVGQHA LARQIEENRF
QCDICKKTFK NACSVKIHKK NMHVKEMHTC TVEGCNATFP SRRSRDRHSS NLNLHQKALS
QEALESSEDH FRAAYLLKDV AKEAYQDVAF TQQASQTSVI FKGTSRMGSL VYPITQVHSA
SLESYNSGPL SEGTILDST TSSMKSESSS HSSWDSGVS EEGTVLMEDS DGNCEGSSLV
PGEDEYPICV LMEKADQSLA SLPSGLPITC HLCQKTYSNK GTFRAHYKTV HLRQLHKCKV
PGCNTMFSSV RSRNRHSQNP NLHKSLASSP SHLQ

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.

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: Basonuclin 1 (BNC1)

Alternative Name: BNC1 ([BNC1 Products](#))

Background: Zinc finger protein basonuclin-1,FUNCTION: Transcriptional activator (By similarity). It is likely involved in the regulation of keratinocytes terminal differentiation in squamous epithelia and hair follicles (PubMed:8034748). Required for the maintenance of spermatogenesis (By similarity). It is involved in the positive regulation of oocyte maturation, probably acting through the control of BMP15 levels and regulation of AKT signaling cascade (PubMed:30010909). May also play a role in the early development of embryos (By similarity).
{ECO:0000250|UniProtKB:O35914, ECO:0000269|PubMed:30010909, ECO:0000269|PubMed:8034748}.

Molecular Weight: 111.0 kDa

UniProt: [Q01954](#)

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: 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.

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Application Details

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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 |