

Datasheet for ABIN3136672

ATXN7 Protein (AA 1-867) (Strep Tag)



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Overview

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| Quantity: | 250 µg |
| Target: | ATXN7 |
| Protein Characteristics: | AA 1-867 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ATXN7 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

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| Brand: | AliCE® |
| Sequence: | <p>MSERAADDVR GEPRRAAGGA AAARQQQQQP QPLQPQRQHP PLRRPRAEDG GTGDTTTSAA</p> <p>AMATVGERRP LPSPEAMLGQ SWNLWVEASK LPGKDGTELD ESFKEFGKNR EVMGLCREDM</p> <p>PIFGLCPAHD DFYLVVCNDC NQVVKPQAFQ SHYERRHSSS SKPALAVPHT SVFSLLPSLS</p> <p>KSKGSGAGGS SRPPSGGVLC ASSSSKLLRL PKEKLPLRGN MKPMHPVQQI KVPHGVRMTP</p> <p>SVKVEKMHPK MDGTLLKSTV GPACPATMSS AVKPGLNCPS IPKPTLPSPG QILNGKGLPA</p> <p>MPTLEKKSED SSNNRKFLNK RLSEREFDPD IHCGVIDLDT KKPCTRLTC KTHSLTQRR</p> <p>VQGRRKRFDV LLAEHKNKAR EKELIRHDSQ QVPHPLRDPH PTPPRTQPQQLPAESKPFL</p> <p>ASKPKPQTPS LPRPPGCPAQ QGGSTPIDPP PGQESHPHPL PATEPASRLS SEEGEGDDRE</p> <p>ESVEKLDCHY SGRHPQPASF CTFGSRQIGR GYYVFDSRWN RLRCALNLMV EKHLNAQLWK</p> <p>KIPPVPCCTS PVSARVPHRT NSVPTSQGGI SYLAATTVSA PPVLLSSTCI SPNSKSVPAH</p> <p>GTTLNAQPAG SGAMDPVCSV QSRQVSASSS PPSTPSGLSS VPSSPLSRKP QKWKPSKSIR</p> |

PKESSALSTN CHNASSSTSG GSGKKRKNSS PLLVPSSSSS SSSSSSSSHS VNSFRKNCVA
HSGTPYLSTA PSSHSIGLNC VTNKTHSVSL RHEQAGRGPA GVSSAEPIKR MSVMVNSSDS
TSLGPFHIQ ASELVNPNS HTPLDKLIGK KRKCSPGSST VGNSGSKPTK VAKLPAMNNV
HMKHTGNISG AQGLTNNSLL HQPKARP

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: | ATXN7 |
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| Alternative Name: | Atxn7 (ATXN7 Products) |
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| Background: | Ataxin-7 (Spinocerebellar ataxia type 7 protein homolog),FUNCTION: Involved in neurodegeneration. Acts as a component of the STAGA transcription coactivator-HAT complex. Mediates the interaction of STAGA complex with the CRX and is involved in CRX-dependent gene activation (By similarity). Necessary for microtubule cytoskeleton stabilization (By similarity). {ECO:0000250 UniProtKB:O15265}. |
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| Molecular Weight: | 92.7 kDa |
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| UniProt: | Q8R4I1 |
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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 needed is the DNA that codes for the desired protein!</p> |
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| Restrictions: | For Research Use only |
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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