

Datasheet for ABIN3092094

DHX34 Protein (AA 1-1143) (Strep Tag)



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1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | DHX34 |
| Protein Characteristics: | AA 1-1143 |
| Origin: | Human |
| Source: | Tobacco (Nicotiana tabacum) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This DHX34 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

Sequence: MPPPRTREGR DRRDHHRAPS EEEALEKWDW NCPETRRLE DAFFREEDYI RQGSEECQKF
 WFFFERLQRF QNLKTSRKEE KDPGQPKHSI PALADLPRTY DPRYRINLSV LGPATRGSQG
 LGRHLPAERV AEFRRALLHY LDFGQKQAFG RLAKLQRERA ALPIAQYGNR ILQTLKEHQV
 VVVAGDTGCG KSTQVPQYLL AAGFSHVACT QPRRIACISL AKRVGFESLS QYGSQVGYQI
 RFESTRSAAT KIVFLTVGLL LRQIQREPSL PQYEVLIVDE VHERHLHNDP LLGVLQRLLP
 TRPDLKVILM SATINISLFS SYFSNAPVVQ VPGRLFPITV VYQPQAEPT TSKSEKLDPR
 PFLRVLESID HKYPPEERGD LLVFLSGMAE ISAVLEAAQT YASHTQRWV LPLHSALSVA
 DQDKVFDVAP PAVRKCILST NIAETSVTID GIRFVVDGK VKEMSYDPQA KLQRLQEFWI
 SQASAEQRKG RAGRTGPGVC FRLYAESDYD AFAPYPVPEI RRVALDSLVL QMKSMSVGD
 RTFFPIEPPP PASLETAILY LRDQGALDSS EALTPIGSLL AQLPVDVIG KMLILGSMFS
 LVEPVLIAA ALSVQSPFTR SAQSSPECAA ARRPLESDQG DPFTLFNVFN AWWQVKSERS
 RNSRKWCRRR GIEEHRLYEM ANLRRQFKEL LEDHGLLAGA QAAQVGDYSYS RLQRRRERRA

LHQLKRQHEE GAGRRRKVLR LQEEQDGGSS DEDRAGPAPP GASDGVDIQD VKFKLRHDLA
QLQAAASSAQ DLSREQLALL KLVLGRGLYP QLAVPDAFNS SRKDSQIFH TQAKQGAVLH
PTCVFAGSPE VLHAQELEAS NCDGSRDDKD KMSSKHQLLS FVSLEETNKP YLVNVCVRIPA
LQSLLLFSRS LDTNGDCSRL VADGWLELQL ADSESAIRLL AASLRLRARW ESALDRQLAH
QAQQLEEEEE EDTPVSPKEV ATLSKELLQF TASKIPYSLR RLTGLEVQNM YVGPQTIPAT
PHLPGLFGSS TSPHPTKGG YAVTDFLTYN CLTNDTDLYS DCLRTFWTCP HGLHAPLTP
LERIAHENTC PQAPQDGPPG AEEAALETQ KTSVLQRPYH CEACGKDFLF TPTEVLRHRK QHV

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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:

Product Details

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is 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: | Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. |
| Purity: | >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Endotoxin Level: | Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) |
| Grade: | Crystallography grade |

Target Details

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|-------------------|--|
| Target: | DHX34 |
| Alternative Name: | DHX34 (DHX34 Products) |
| Background: | Probable ATP-dependent RNA helicase DHX34 (EC 3.6.4.13) (DEAH box protein 34) (DExH-box helicase 34),FUNCTION: Probable ATP-binding RNA helicase required for nonsense-mediated decay (NMD) degradation of mRNA transcripts containing premature stop codons (PubMed:25220460, PubMed:33205750). Promotes the phosphorylation of UPF1 along with its interaction with key NMD pathway proteins UPF2 and EIF4A3 (PubMed:25220460). Interaction with the RUVBL1-RUVBL2 complex results in loss of nucleotide binding ability and ATP hydrolysis of the complex (PubMed:33205750). Negatively regulates the nucleotide binding ability and ATP hydrolysis of the RUVBL1-RUVBL2 complex via induction of N-terminus conformation changes of the RUVBL2 subunits (PubMed:33205750). {ECO:0000269 PubMed:25220460, ECO:0000269 PubMed:33205750}. |
| Molecular Weight: | 128.1 kDa |
| UniProt: | Q14147 |

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.

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!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process