

Datasheet for ABIN3092094

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



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	DHX34
Protein Characteristics:	AA 1-1143
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX34 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MPPPRTREGR DRRDHRAPS EEEALEKWDW NCPETRRLLE DAFFREEDYI RQGSEECQKF WTFFERLQRF QNLKTSRKEE KDPGQPKHSI PALADLPRTY DPRYRINLSV LGPATRGSQG LGRHLP AERV AEFRRALLHY LDFGQKQAFG RLAKLQRERA ALPIAQYGNR ILQTLKEHQV VVVAGDTGCG KSTQVPQYLL AAGFSHVACT QPRRIACISL AKRVGFESLS QYGSQVGYQI RFESTRSAAT KIVFLTVGLL LRQIQREPSL PQYEV LIVDE VHERHLHND F LLGVLQRLLP TRPDLKVILM SATINISLFS SYFSNAPVVQ VPGRLFPITV VYQPQAEPT TSKSEKLDPR PFLRVLESID HKYPPEERGD LLVFLSGMAE ISAVLEAAQT YASHTQRWV LPLHSALSVA DQDKVFDVAP P GVRKCILST NIAETSVTID GIRFVVD SGK VKEMSYDPQA KLQRLQEFWI SQASAEQRKG RAGRTGPGVC FRLYAESDYD AFAPYPVPEI RRVALDSLVL QMKSMSVGDP RTFPFIEPPP PASLETAILY LRDQGALDSS EALTPIGSLL AQLPVDVIG KMLILGSMFS LVEPVL TIAA ALSVQSPFTR SAQSSPECAA ARRPLESDQG DPFTLFNVFN AWWQVKSERS

RNSRKWCRRR GIEEHRLYEM ANLRRQFKEL LEDHGLLAGA QAAQVGDSYS RLQRRRERRA
LHQLKRQHEE GAGRRRKVLR LQEEQDGGSS DEDRAGPAPP GASDGVDIQD VKFKLRHDLA
QLQAAASSAQ DLSREQLALL KLVLRGLYP QLAVPDAFNS SRKDSQIFH TQAKQGAVLH
PTCVFAGSPE VLHAQELEAS NCDGSRDDKD KMSSKHQLLS FVSLLETNKP YLVNCVRIPA
LQSLLLFSRS LDTNGDCSRL VADGWLELQL ADSESAIRLL AASLRLRARW ESALDRQLAH
QAQQQLEEEE EDTPVSPKEV ATLSKELLQF TASKIPYSLR RLTGLEVQNM YVGPQTIPAT
PHLPGLFGSS TSPHPTKGG YAVTDFLTYN CLTNDTDLYS DCLRTFWTCP HCGLHAPLTP
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 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:

Product Details

- 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.

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: 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

Application Details

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. 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