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Datasheet for ABIN3135751  
**DHX57 Protein (AA 1-1388) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	DHX57
Protein Characteristics:	AA 1-1388
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX57 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Sequence: MSSSVRRK GK PGKGDGK GSS RGGRRGGK GHM NKSHGGGGGG GGSCGGGGGG SRKASNRIWD  
DGDDFCVFTE PKRPSRPCDS NKSKGETRPK WKPKAKVPLQ TLHMTSENQE KVKALLRDLQ  
EQGADAGSER GTSGEEEDSE PQCQEEQGW P AGQEPFLPD CSPWEYIGPE EVEPPVPECA  
VSPLAVQKLS RYGFHTEHCQ LALRICDGD L GAALHLLRQ CFSETFGERM ALSEAAVYVS  
LNECVEQRQE ETLALKSICG EKFIERIQR VWTIGLELDY LTNKFCKSKQ KESSKNVRDT  
SPETCKFYLK GNCKFGSKCK FKHEVPPHQ M IGRAERNVND PHLDADDDTT FMYELQIRFS  
KDHKYPYQAP LVAFYSTNEN LPLACRLHIS EFLYGKALEF AKTSEPVVYS LITLLEESE  
IVKLLTHTQH KYSVPPVNVP PVPSETRISK PAYRKPVVPS NTFLSNQMLE GERLSELEED  
ADEDEGPASI IVENESYVNL KKRSYKRYDR PAKSLFAENS KICRQFQMKQ ASRQFHAILQ  
ERQLLPAWEE RETILKLLSK HQVVVISGMT GCGKTTQIPQ FILDNSLNGP PERVANIICT  
QPRRISAI SV AERVAKERAE RVGLTVGYQI RLESVKSSAT RLLYCTTGVL LRRLEGDATL  
QGVTHIIVDE VHERTEESDF LLLVLKDIVM QRATLQVILM SATLDAGLFS KYFSYCPVIT

IPGRAFPVDQ FFLEDALAVT RYVLQDGSFY MRSMKQIAKE KLKARHNRTA QEEVEEDLRL  
SLHLQDEEES VKDTIPDQQL DFKQLLIRYK GVSXSVIKTM SVMDFEKNL ELIEALLEWI  
VDGKHAYPPG AVLVFLPGLA EIKMLYEQLQ SNSLFNNRRS HRCVIHPLHS SLSSEEQAV  
FVKPPMGVTK IIISTNIAET SITIDVVVV IDSGKMKEKR YDAGKGMESL EDTFVSQANA  
LQRKGRAGRV ASGVCFHLFT SHHYNHQLLK QQLPEIQRVP LEQLCLRIKI LEMFSTHNLQ  
SVFSRLIEPP HIDSLRASKV RLRDLGALTP DEKLTPLGYH LASLPVDVRI GKLMMLGSIF  
RCLDPALTIA ASLAFKSPFV SPWDKKEEAN QKKLEFAPAN SDYLALLCAY KGWQLSTKES  
ARASNYCRQ NFLSGRTLQE MASLKRQFTE LLSDIGFVKE GLRAKEIEKR AQGGDGVDA  
TGEEANTNAE NPKLISAVLC AALYPNVVQV KTPEGKFQKT SSGVRLQPK SAELKFVTKN  
DGYVHIHPSS VNYQVRHFDS PYLLYHEKIK TSRVFIRDSC MVSVYPLVLF GGGQVNVQLQ  
RGAFVSLDD GWIRFVAASH QVAELVKELR CELDQLQDK IKNPSMDLCS CPRGSRISM  
IVKLITTQ

**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.**

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### 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

## Product Details

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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 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"><li>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.</li><li>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.</li></ol>
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)

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## Target Details

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Target:	DHX57
Alternative Name:	Dhx57 ( <a href="#">DHX57 Products</a> )
Background:	Putative ATP-dependent RNA helicase DHX57 (EC 3.6.4.13) (DEAH box protein 57),FUNCTION: Probable ATP-binding RNA helicase.
Molecular Weight:	155.8 kDa
UniProt:	<a href="#">Q6P5D3</a>

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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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

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## Application Details

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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!

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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. 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)