

Datasheet for ABIN3095867

**TDRD9 Protein (AA 1-1382) (Strep Tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	TDRD9
Protein Characteristics:	AA 1-1382
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDRD9 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MLRKLTIEQI NDWFTIGKTV TNVELLGAPP AFPAGAAREE VQRQDVAPGA GPAAQAPALA QAPARPAAAF ERSLSQRSSE VEYINKYRQL EAQELDVCRS VQPTSGPGPR PSLAKLSSVT CIPGTTYKYP DLPISRYKEE VVSLIESNSV VIIHGATGSG KSTQLPQYIL DHYVQRSAYC SIVVTQPRKI GASSIARWIS KERAUWTLGGV VGYQVGLEKI ATEDTRLIYM TTGVLLQKIV SAKSLMEFTH IIIDEVHERT EEMDFLLLVV RKLLRTNSRF VKVVLMSATI SCKEFADYFA VPVQNKMNPA YIFEVEGKPH SVEEYYLNDL EHIHHSKLSP HLLEEVITK DIYEVAVSLI QMFDDLDMKE SGNKAWSGAQ FVLERSSSLV FLPGLGEINY MHELLTSLVH KRLQVYPLHS SVALEEQNNV FLSPVPGYRK IILSTNIAES SVTPDPVKYV IDFCLTRTLV CDEDTNYQSL RLSWASKTSC NQRKGRAGRV SRGYCYRLVH KDFWDNSIPD HVPPEMLRCP LGSTILKVKL LDMGEPRALL ATALSPPGLS DIERTILLK EVGALAVSGQ REDENPHDGE LTFLGRVLAQ LPVNQQLGKL IVLGHVFGCL DECLIIAAL SLKNFFAMPF RQHLDGYRNK VNFSGSSKSD CIALVEAFKT WKACRQTGEL RYPKDELNWG RLNYIQIKRI REVAELYEEL KTRISQFNMH
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VDSRRPVMDQ EYIYKQRFIL QVVLGAFYP NYFTFGQPDE EMAVRELAGK DPKTTVVLKH  
IPPYGFLYYK QLQSLFRQCG QVKSIVFDGA KAFVEFSRNP TERFKTLPV YMAIKMSQLK  
VSLELSVHSA EEIEGKVQGM NVSKLRNTRV NVDFQKQTV DPMQVSFNTSD RSQTVTDLLL  
TIDVTEVVEV GHFWGYRIDE NNSEILKKLT AEINQLTLVP LPTHHPDLV CLAPFADFCK  
QRYFRAQVLY VSGNSAEVFF VDYGNKSHVD LHLLMEIPCQ FLELPFQALE FKICKMRPSA  
KSLVCGKHWS DGASQWFASL VSGCTLLVKV FSVVHSV LHV DVYQYSGVQD AINIRDVLIQ  
QGYAELTEES YESKQSHEVL KGLFSKSVEN MTDGSPFPM KDDEKYLRIR LLESFSTNKL  
GTPNCKAELH GPFNPYELKC HSLTRISKFR CVWIEKESIN SVIISDAPED LHQRMLVAAS  
LSINATGSTM LLRETSLMPH IPGLPALLSM LFAPVIELRI DQNGKYITGV LCGLGWNPAT  
GASILPEHDM ELAFDVQFSV EDVVEVNILR AAINKLKVDG PNGCKCLGPE RVAQLQDIAR  
QKLLGLFCQS KPREKIVPKW HEKPYEWNQV DPKLVMEQAD RESSRGKNTF LYQLHKLVLV GT

**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 components needed for protein production (amino acids, cofactors, etc.) are added to

## Product Details

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.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):  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

Target:	TDRD9
Alternative Name:	TDRD9 ( <a href="#">TDRD9 Products</a> )
Background:	ATP-dependent RNA helicase TDRD9 (EC 3.6.4.13) (Tudor domain-containing protein 9),FUNCTION: ATP-binding RNA helicase required during spermatogenesis (PubMed:28536242). Required to repress transposable elements and prevent their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Acts downstream of piRNA biogenesis: exclusively required for transposon silencing in the nucleus, suggesting that it acts as a nuclear effector in the nucleus together with PIWIL4. {ECO:0000250 UniProtKB:Q14BI7, ECO:0000269 PubMed:28536242}.
Molecular Weight:	155.7 kDa

## Target Details

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UniProt: [Q8NDG6](#)

## 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 *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

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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)



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