Datasheet for ABIN3134922

TDRD9 Protein (AA 1-1383) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TDRD9
Protein Characteristics:	AA 1-1383
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDRD9 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MLRKLTVDQI NDWFTIGKTV TNVELLGLPP AFPAEAPREE VQRSEEVPNE DPTAQAQVPV KATAPARPAS TSGRSLSQRS SEMEYINKYR QLEEQELDIY GQDQPPSGPG LRSPLAKLSN VACIPETTYK YPDLPINRCK EEVISLIESN SVVIIHGATG SGKSTQLPQY VLDHYTQRSA FCNIVVTQPR KIGASSIARW ISKERSWTLG GLVGYQVGLE KIATEDTRLI YMTTGVLLQK IVSAKSLMEF THIFIDEVHE RTEEMDFLLL VVRKLLRTNS RFVKVVLMSA TINCKQFADY FAVPVQNKMN PAYVFEVEGK PHAIEEYYLN DLGHIYHSGL PYRLEEPVIT KDVYEVAVSL IQMFDDLDMK ESGNKTWSGA QFVSERSSVL VFLPGLGEIN YMHELLTNMI HKRLQVYPLH SSVTLEEQNN VFLSPVPGYR KIILSTNIAE SSVTVPDVKY VIDFCLTRTL VCDEDTNYQS LRLSWASKTS CDQRKGRAGR VSKGYCYRLI PRDFWDSAIP DHVVPEMLRC PLGSTILKVK LLDMGEPRAL LATALSPPSL SDIERTILLL KEVGALAVSG QREDENPHDG ELTFLGRVLA QLPVSQQLGK LVVLGHVFGC LDECLIIAAA LSLKNFFTMP FRQHLDGYRN KVHFSGSSRS

DCLALVEAFR AWQACRQRGE LRRPKDELDW GRLNYIQIKR IREVAELYEE LKNRISQFNM FVGPHHPVLD QEYPYKQRFI LQVVLAGAFY PNYFTFGQPD EEMAVRELAG KDPKTTVVLK HIPPYGFLYY KQLQSLFRQC GQVKSIVFDG AKAFVEFSRN PTERFKTLPA VNLAVKMSQL KVSLELSVHA AEEIEGKVQG GSVSKLRNTR VNVDFQKQTV DPMQVSFNTL DRPRTVADLL LTIDVTEVVE VGHFWGYRID ERNAELLKQL TAEINRLELV PLPIHPHPDL VCLAPFTDYN KESYFRAQIL YVSGNSAEVF FVDYGNRSHV DLDLLREIPC QFLELPFQAL EFKICKMRPS AKSLICGEHW SGGAHGRFAA LVGGCPLLVK VFSIVHSVLH VDVYRYSGAQ DAVNVRDVLI REGYAELAEE SYESKQSYEV LKGFFAKSVD TMPDGSVSSP LKDDEKHLLR ILLESFASNR LGAPNCKAVL HGPFNPYELK CHSLTRISKF RCVWIEKESI NSVVISDSPA DLHQRMLVAA SLSVNETGST MLLRETSLMP HIPGLPALLS MLFAPVMELR VDREGKCYTG VLCGLGWNSA TEAPILPEHD IELAFDVRLN VEDIVEINIL RAAINKLVCD GPNGSKYLGP ERIAQLQENA RQKLLGLFCR LKPREKITPQ WHEKPYEWNQ VDPRLIMEQA EPEGSPGKST SLYQLHTPVV LSP

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

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 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:	TDRD9
Alternative Name:	Tdrd9 (TDRD9 Products)
Background:	ATP-dependent RNA helicase TDRD9 (EC 3.6.4.13) (Tudor domain-containing protein 9),FUNCTION: ATP-binding RNA helicase which plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity (PubMed:20059948, PubMed:28633017). 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 (PubMed:20059948, PubMed:28633017). 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 (PubMed:28633017). {ECO:0000269|PubMed:20059948, ECO:0000269|PubMed:28633017}.
Molecular Weight:	156.0 kDa
UniProt:	Q14BI7

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

Application Details

	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. 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