Datasheet for ABIN3095866

TDRD7 Protein (AA 1-1098) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TDRD7
Protein Characteristics:	AA 1-1098
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDRD7 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MLEGDLVSKM LRAVLQSHKN GVALPRLQGE YRSLTGDWIP FKQLGFPTLE AYLRSVPAVV RIETSRSGEI TCYAMACTET ARIAQLVARQ RSSKRKTGRQ VNCQMRVKKT MPFFLEGKPK ATLRQPGFAS NFSVGKKPNP APLRDKGNSV GVKPDAEMSP YMLHTTLGNE AFKDIPVQRH VTMSTNNRFS PKASLQPPLQ MHLSRTSTKE MSDNLNQTVE KPNVKPPASY TYKMDEVQNR IKEILNKHNN GIWISKLPHF YKELYKEDLN QGILQQFEHW PHICTVEKPC SGGQDLLLYP AKRKQLLRSE LDTEKVPLSP LPGPKQTPPL KGCPTVMAGD FKEKVADLLV KYTSGLWASA LPKAFEEMYK VKFPEDALKN LASLSDVCSI DYISGNPQKA ILYAKLPLPT DKIQKDAGQA HGDNDIKAMV EQEYLQVEES IAESANTFME DITVPPLMIP TEASPSVLVV ELSNTNEVVI RYVGKDYSAA QELMEDEMKE YYSKNPKITP VQAVNVGQLL AVNAEEDAWL RAQVISTEEN KIKVCYVDYG FSENVEKSKA YKLNPKFCSL SFQATKCKLA GLEVLSDDPD LVKVVESLTC GKIFAVEILD KADIPLVVLY DTSGEDDINI NATCLKAICD KSLEVHLQVD AMYTNVKVTN

ICSDGTLYCQ VPCKGLNKLS DLLRKIEDYF HCKHMTSECF VSLPFCGKIC LFHCKGKWLR VEITNVHSSR ALDVQFLDSG TVTSVKVSEL REIPPRFLQE MIAIPPQAIK CCLADLPQSI GMWTPDAVLW LRDSVLNCSD CSIKVTKVDE TRGIAHVYLF TPKNFPDPHR SINRQITNAD LWKHQKDVFL SAISSGADSP NSKNGNMPMS GNTGENFRKN LTDVIKKSMV DHTSAFSTEE LPPPVHLSKP GEHMDVYVPV ACHPGYFVIQ PWQEIHKLEV LMEEMILYYS VSEERHIAVE KDQVYAAKVE NKWHRVLLKG ILTNGLVSVY ELDYGKHELV NIRKVQPLVD MFRKLPFQAV TAQLAGVKCN QWSEEASMVF RNHVEKKPLV ALVQTVIENA NPWDRKVVVY LVDTSLPDTD TWIHDFMSEY LIELSKVN

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:	TDRD7
Alternative Name:	TDRD7 (TDRD7 Products)
Background:	Tudor domain-containing protein 7 (PCTAIRE2-binding protein) (Tudor repeat associator with PCTAIRE-2) (Trap),FUNCTION: Component of specific cytoplasmic RNA granules involved in post-transcriptional regulation of specific genes: probably acts by binding to specific mRNAs and regulating their translation. Required for lens transparency during lens development, by regulating translation of genes such as CRYBB3 and HSPB1 in the developing lens. Also required during spermatogenesis. {ECO:0000269|PubMed:21436445}.
Molecular Weight:	123.6 kDa
UniProt:	Q8NHU6

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

Application Details

	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