Datasheet for ABIN3095793

TDRD12 Protein (AA 1-1177) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TDRD12
Protein Characteristics:	AA 1-1177
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDRD12 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MLQLLVLKIE DPGCFWVIIK GCSPFLDHDV DYQKLNSAMN DFYNSTCQDI EIKPLTLEEG QVCVVYCEEL KCWCRAIVKS ITSSADQYLA ECFLVDFAKN IPVKSKNIRV VVESFMQLPY RAKKFSLYCT KPVTLHIDFC RDSTDIVPAK KWDNAAIQYF QNLLKATTQV EARLCAVEED TFEVYLYVTI KDEKVCVNDD LVAKNYACYM SPTKNKNLDY LEKPRLNIKS APSFNKLNPA LTLWPMFLQG KDVQGMEDSH GVNFPAQSLQ HTWCKGIVGD LRPTATAQDK AVKCNMDSLR DSPKDKSEKK HHCISLKDTN KRVESSVYWP AKRGITIYAD PDVPEASALS QKSNEKPLRL TEKKEYDEKN SCVKLLQFLN PDPLRADGIS DLQQLQKLKG LQPPVVVLRN KIKPCLTIDS SPLSADLKKA LQRNKFPGPS HTESYSWPPI ARGCDVVVIS HCESNPLLYL LPVLTVLQTG ACYKSLPSRN GPLAVIVCPG WKKAQFIFEL LGEYSMSSRP LHPVLLTIGL HKEEAKNTKL PRGCDVIVTT PYSLLRLLAC QSLLFLRLCH LILDEVEVLF LEANEQMFAI LDNFKKNIEV EERESAPHQI VAVGVHWNKH IEHLIKEFMN DPYIVITAME EAALYGNVQQ VVHLCLECEK

TSSLLQALDF IPSQAQKTLI FTCSVAETEI VCKVVESSSI FCLKMHKEMI FNLQNVLEQW KKKLSSGSQI ILALTDDCVP LLAITDATCV IHFSFPASPK VFGGRLYCMS DHFHAEQGSP AEQGDKKAKS VLLLTEKDAS HAVGVLRYLE RADAKVPAEL YEFTAGVLEA KEDKKAGRPL CPYLKAFGFC KDKRICPDRH RINPETDLPR KLSSQALPSF GYIKIIPFYI LNATNYFGRI VDKHMDLYAT LNAEMNEYFK DSNKTTVEKV EKFGLYGLAE KTLFHRVQVL EVNQKEDAWA LDDILVEFID EGRTGLVTRD QLLHLPEHFH TLPPQAVEFI VCRVKPADNE IEWNPKVTRY IHHKIVGKLH DAKVILALGN TVWIDPMVHI TNLSSLKTSV IDYNVRAEIL SMGMGIDNPE HIEQLKKLRE DAKIPACEES LSQTPPRVTG TSPAQDQDHP SEEQGGQGTP PAEDAACLQS PQPEDTGAEG GAESKTSSEN QKPGGYLVFK RWLSSNR

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!

Product Details

	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:	TDRD12
Alternative Name:	TDRD12 (TDRD12 Products)
Background:	Putative ATP-dependent RNA helicase TDRD12 (EC 3.6.4.13) (ES cell-associated transcript 8 protein) (Tudor domain-containing protein 12),FUNCTION: Probable ATP-binding RNA helicase required during spermatogenesis to repress transposable elements and preventing 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. Involved in the secondary piRNAs metabolic process. Acts via the PET complex, a multiprotein complex required during the secondary piRNAs metabolic process for the PIWIL2 slicing-triggered loading of PIWIL4 piRNAs. {ECO:0000250|UniProtKB:Q9CWU0}.
Molecular Weight:	132.6 kDa
UniProt:	Q587J7

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