Datasheet for ABIN3122192

TMTC1 Protein (AA 1-942) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	TMTC1
Protein Characteristics:	AA 1-942
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMTC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MLVTRGDRGG GERAPSRRPR CGLVPAGAAA LLAGASCLCY GRSLRGEFVH DDVWAIVNNP DVRPGTPLRW AIFANDFWGK GLADSTSHKS YRPLCVLSFR LNIFLTGMNP FYFHAVNVIL HCLVTLVLMY TCDKTVFKNR GLAFVTALLF AVHPVHTEAV AGIVGRADVL ACLLFLLAFL SYQRSLDQGC AGQCFPTTAS PFFLLLSLFL GTCAMLVKET GITVFGVCLV YDLFSPSHKQ DKLSNGAVCQ HSSGQPGSPQ PSSQQAHPHR ESRKQRFPHK DSWGGCHSPL PPEPKSSGFP MSPRAMWSLM RCLTGSTNRN FLLTLRPFLK RAILVISYVT VILYFRLWIM GGTMPLFSEQ DNPASFSPYI LTRFLTYSYL LAFNVWLLLA PITLCYDWQV GSIPLVETIW DVRNLATILL AVVMALLSLH CVAAFKRLEH KEVLAGLLFL VFPFIPASNL FFRVGFVVAE RVLYMPSMGY CILFVHGLSK LCAGLSRCGA TSLMASTVLL LLLFSWKTVK QNEIWLSRES LFRSGVQTLP HNAKVHYNYA NFLKDQGRNK EAIYHYRTAL KLYPRHASAL NNLGTLTKDM AEAKMYYQKA LQLHPQHNRA LFNLGNLLKS QEKTEEAIML LKESIKYGPD FADAYSSLAS LLAEQERFKE

AEDIYQAGIK NCPDSSDLHN NYAVFLVDSG FPEKAVAHYQ QAIQLSPSHH VAVVNLGRLY RSLGENSKAE EWYRRALKVA RTAEVLSPLG ALYYNTGRHK EALEVYREAV SLQPSQRELR LALAQVLAVM GQTKEAEKIT SHIVSEEPRC LECYRLLSAI HSKQEHHGKA LEAIEKALQL KPKDPKVISE LFFTKGNQLR EQNLLDKAFE SYEAAVTLDP DQAQAWMNMG GIRHIQGSYV SARAYYERAL KLVPDSKLLK ENLAKLDRLE RRLQEVRERD QT

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:

- 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.

Product Details

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:	TMTC1
Alternative Name:	Tmtc1 (TMTC1 Products)
Background:	Protein O-mannosyl-transferase TMTC1 (EC 2.4.1.109) (Transmembrane O-mannosyltransferase targeting cadherins 1) (Transmembrane and tetratricopeptide repeat-containing 1),FUNCTION: Transfers mannosyl residues to the hydroxyl group of serine or threonine residues. The 4 members of the TMTC family are O-mannosyl-transferases dedicated primarily to the cadherin superfamily, each member seems to have a distinct role in decorating the cadherin domains with O-linked mannose glycans at specific regions. Also acts as O-mannosyl-transferase on other proteins such as PDIA3. {ECO:0000250|UniProtKB:Q8IUR5}.
Molecular Weight:	105.8 kDa
UniProt:	Q3UV71

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 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

Application Details

	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