Datasheet for ABIN3093966

MTMR4 Protein (AA 1-1195) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MTMR4
Protein Characteristics:	AA 1-1195
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTMR4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MGEEGPPSLE YIQAKDLFPP KELVKEEENL QVPFTVLQGE GVEFLGRAAD ALIAISNYRL HIKFKDSVIN VPLRMIDSVE SRDMFQLHIS CKDSKVVRCH FSTFKQCQEW LSRLSRATAR PAKPEDLFAF AYHAWCLGLT EEDQHTHLCQ PGEHIRCRQE AELARMGFDL QNVWRVSHIN SNYKLCPSYP QKLLVPVWIT DKELENVASF RSWKRIPVVV YRHLRNGAAI ARCSQPEISW WGWRNADDEY LVTSIAKACA LDPGTRATGG SLSTGNNDTS EACDADFDSS LTACSGVEST AAPQKLLILD ARSYTAAVAN RAKGGGCECE EYYPNCEVVF MGMANIHAIR NSFQYLRAVC SQMPDPSNWL SALESTKWLQ HLSVMLKAAV LVANTVDREG RPVLVHCSDG WDRTPQIVAL AKILLDPYYR TLEGFQVLVE SDWLDFGHKF GDRCGHQENV EDQNEQCPVF LQWLDSVHQL LKQFPCLFEF NEAFLVKLVQ HTYSCLYGTF LANNPCEREK RNIYKRTCSV WALLRAGNKN FHNFLYTPSS DMVLHPVCHV RALHLWTAVY LPASSPCTLG EENMDLYLSP VAQSQEFSGR SLDRLPKTRS MDDLLSACDT SSPLTRTSSD PNLNNHCQEV RVGLEPWHSN PEGSETSFVD

SGVGGPQQTV GEVGLPPPLP SSQKDYLSNK PFKSHKSCSP SYKLLNTAVP REMKSNTSDP EIKVLEETKG PAPDPSAQDE LGRTLDGIGE PPEHCPETEA VSALSKVISN KCDGVCNFPE SSQNSPTGTP QQAQPDSMLG VPSKCVLDHS LSTVCNPPSA ACQTPLDPST DFLNQDPSGS VASISHQEQL SSVPDLTHGE EDIGKRGNNR NGQLLENPRF GKMPLELVRK PISQSQISEF SFLGSNWDSF QGMVTSFPSG EATPRRLLSY GCCSKRPNSK QMRATGPCFG GQWAQREGVK SPVCSSHSNG HCTGPGGKNQ MWLSSHPKQV SSTKPVPLNC PSPVPPLYLD DDGLPFPTDV IQHRLRQIEA GYKQEVEQLR RQVRELQMRL DIRHCCAPPA EPPMDYEDDF TCLKESDGSD TEDFGSDHSE DCLSEASWEP VDKKETEVTR WVPDHMASHC YNCDCEFWLA KRRHHCRNCG NVFCAGCCHL KLPIPDQQLY DPVLVCNSCY EHIQVSRARE LMSQQLKKPI ATASS

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:	MTMR4
Alternative Name:	MTMR4 (MTMR4 Products)
Background:	Myotubularin-related protein 4 (EC 3.1.3.48) (FYVE domain-containing dual specificity protein phosphatase 2) (FYVE-DSP2) (Zinc finger FYVE domain-containing protein 11),FUNCTION: Dephosphorylates proteins phosphorylated on Ser, Thr, and Tyr residues and low molecular weight phosphatase substrate para-nitrophenylphosphate. Phosphorylates phosphatidylinositol 3,4,5-trisphosphate (PIP3). {ECO:0000269|PubMed:11302699}.
Molecular Weight:	133.4 kDa
UniProt:	Q9NYA4
Pathways:	Inositol Metabolic Process

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

Application Details

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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