Datasheet for ABIN3094000

Myopalladin Protein (MYPN) (AA 1-1320) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Myopalladin (MYPN)
Protein Characteristics:	AA 1-1320
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Myopalladin protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MQDDSIEAST SISQLLRESY LAETRHRGNN ERSRAEPSSN PCHFGSPSGA AEGGGGQDDL PDLSAFLSQE ELDESVNLAR LAINYDPLEK ADETQARKRL SPDQMKHSPN LSFEPNFCQD NPRSPTSSKE SPQEAKRPQY CSETQSKKVF LNKAADFIEE LSSLFKSHSS KRIRPRACKN HKSKLESQNK VMQENSSSFS DLSERRERSS VPIPIPADTR DNEVNHALEQ QEAKRREAEQ AASEAAGGDT TPGSSPSSLY YEEPLGQPPR FTQKLRSREV PEGTRVQLDC IVVGIPPPQV RWYCEGKELE NSPDIHIVQA GNLHSLTIAE AFEEDTGRYS CFASNIYGTD STSAEIYIEG VSSSDSEGDP NKEEMNRIQK PNEVSSPPTT SAVIPPAVPQ AQHLVAQPRV ATIQQCQSPT NYLQGLDGKP IIAAPVFTKM LQNLSASEGQ LVVFECRVKG APSPKVEWYR EGTLIEDSPD FRILQKKPRS MAEPEEICTL VIAEVFAEDS GCFTCTASNK YGTVSSIAQL HVRGNEDLSN NGSLHSANST TNLAAIEPQP SPPHSEPPSV EQPPKPKLEG VLVNHNEPRS SSRIGLRVHF NLPEDDKGSE ASSEAGVVTT RQTRPDSFQE RFNGQATKTP EPSSPVKEPP PVLAKPKLDS

TQLQQLHNQV LLEQHQLQNP PPSSPKEFPF SMTVLNSNAP PAVTTSSKQV KAPSSQTFSL ARPKYFFPST NTTAATVAPS SSPVFTLSST PQTIQRTVSK ESLLVSHPSV QTKSPGGLSI QNEPLPPGPT EPTPPPFTFS IPSGNQFQPR CVSPIPVSPT SRIQNPVAFL SSVLPSLPAI PPTNAMGLPR SAPSMPSQGL AKKNTKSPQP VNDDNIRETK NAVIRDLGKK ITFSDVRPNQ QEYKISSFEQ RLMNEIEFRL ERTPVDESDD EIQHDEIPTG KCIAPIFDKR LKHFRVTEGS PVTFTCKIVG IPVPKVYWFK DGKQISKRNE HCKMRREGDG TCSLHIESTT SDDDGNYTIM AANPQGRISC SGHLMVQSLP IRSRLTSAGQ SHRGRSRVQE RDKEPLQERF FRPHFLQAPG DMVAHEGRLC RLDCKVSGLP PPELTWLLNG QPVLPDASHK MLVRETGVHS LLIDPLTQRD AGTYKCIATN KTGQNSFSLE LSVVAKEVKK APVILEKLQN CGVPEGHPVR LECRVIGMPP PVFYWKKDNE TIPCTRERIS MHQDTTGYAC LLIQPAKKSD AGWYTLSAKN EAGIVSCTAR LDIYAQWHHQ IPPPMSVRPS GSRYGSLTSK GLDIFSAFSS MESTMVYSCS SRSVVESDEL

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 -

Product Details

	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:	Myopalladin (MYPN)
Alternative Name:	MYPN (MYPN Products)
Background:	Myopalladin (145 kDa sarcomeric protein),FUNCTION: Component of the sarcomere that tethers together nebulin (skeletal muscle) and nebulette (cardiac muscle) to alpha-actinin, at the Z lines. {ECO:0000269|PubMed:11309420}.
Molecular Weight:	145.3 kDa
UniProt:	Q86TC9

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