

Datasheet for ABIN3093992

MYOM3 Protein (AA 1-1437) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MYOM3
Protein Characteristics:	AA 1-1437
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYOM3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MTLPHSLGGA GDRPPQAME VHRLEHRQEE EQKEERQHSL RMGSSVRRRT FRSEEEHEF</p> <p>SAADYALAAA LALTASSELS WEAQLRRQTS AVELEERGQK RVGFGNDWER TEIAFLQTHR</p> <p>LLRQRDWT LRRRTEEKVQ EAKELRELCY GRGPWFWDPL RSHAVWEHTT VLLTCTVQAS</p> <p>PPPQVTWYKN DTRIDPRLFR AGKYRITNNY GLLSLEIRRC AIEDSATYTV RVKNAHGQAS</p> <p>SFAKVLVRTY LGKDAGFDSE IFKRSTFGPS VEFTSVLKPV FAREKEPFSL SCLFSEDVLD</p> <p>AESIQWFRDG SLLRSSRRRK ILYTDRQASL KVSCTYKEDE GLYMVRVPSP FGPREQSTYV</p> <p>LVRDAEAENP GAPGSPLNVR CLDVNRDCLI LTWAPPSDTR GNPITAYTIE RCQGEGSEWI</p> <p>ACHEAPGGTC RCPIQGLVEG QSYRFRVRAI SRVGSSVPSK ASELVVMGDH DAARRKTEIP</p> <p>FDLGNKITIS TDAFEDTVTI PSPPTNVHAS EIREAYVLA WEEPSRDRD PLTYSLEKSV</p> <p>IGSGTWEAIS SESPVRSPRF AVLDLEKKKS YVFRVRAMNQ YGLSDPSEPS EPIALRGPPA</p> <p>TLPPPAQVQA FRDTQTSVSL TWDPVKDPEL LGYYIYSRKV GTSEWQTVNN KPIQGTRFTV</p>

PGLRTGKEYE FCVRSVSEAG VGESSAATEP IRVKQALATP SAPYGFALLN CGKNEMVIGW
KPPKRRGGGK ILGYFLDQHD SEELDWHAVN QQPIPTRVCK VSDLHEGHFY EFRARAANWA
GVGELSAPSS LFECKEWTMP QPGPPYDVRA SEVRATSLVL QWEPPLYMGA GPVTGYHVSF
QEEGSEQWKP VTPGPISGTH LRVSDLQPGK SYVFQVQAMN SAGLGQPSMP TDPVLLEDKP
GAHEIEVGVD EEGFIYLAFE APEAPDSSEF QWSKDYKGPL DPQRVKIEDK VNKSKVILKE
PGLEDLGTYS VIVTDADEDI SASHTLTEEE LEKLLKLSHE IRNPVIKLIS GWNIDILERG
EVRLWLEVEK LSPAAELHLI FNNKEIFSSP NRKINFIREK GLVEVIIQNL SEEDKGSYTA
QLQDGKAKNQ ITLTLVDDDF DKLLRKADAK RRDWKRKQGP YFERPLQWKV TEDCQVQLTC
KVTNTKKETR FQWFFQRAEM PDGQYDPETG TGLLCIEELS KKDKGIYRAM VSDDRGEDDT
ILDLTGDALD AIFTELGRIG ALSATPLKIQ GTEEGIRIFS KVKYYNVEYM KTTWFHKDKR
LESGDRIRTG TTLDEIWLHI LDPKDSKGGK YTLIEAAGKE VRQLSTDLSG QAFEDAMAETH
QRLKTLAIE KNRKVVVRL PDVATIMEDK TLCLTCIVSG DPTPEISWLK NDQPVTFLLR
YRMEVRGTEV TITIEKVNSE DSGRYGVFVK NKYGSETGQV TISVFKHGDE PKELKSM

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

Product Details

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.

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:	MYOM3
Alternative Name:	MYOM3 (MYOM3 Products)
Background:	Myomesin-3 (Myomesin family member 3),FUNCTION: May link the intermediate filament cytoskeleton to the M-disk of the myofibrils in striated muscle. {ECO:0000250}.
Molecular Weight:	162.2 kDa
UniProt:	Q5VTT5

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 <i>Nicotiana tabacum</i> 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

Application Details

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