

Datasheet for ABIN3093981

MYOM2 Protein (AA 1-1465) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MYOM2
Protein Characteristics:	AA 1-1465
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYOM2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MSLVTVPFYQ KRHRHFDQSY RNIQTRYLLD EYASKKRAST QASSQKSLSQ RSSSQRASSQ</p> <p>TSLGGTICRV CAKRVSTQED EEQENRSRYQ SLVAAYGEAK RQRFLSELAH LEEDVHLARS</p> <p>QARDKLDKYA IQMMEDKLA WERHTFEERI SRAPEILVRL RSHTVWERMS VKLCFTVQGF</p> <p>PTPVVQWYKD GSLICQAAEP GKYRIESNYG VHTLEINRAD FDDTATYS AV ATNAHGQVST</p> <p>NAAVVVRRFR GDEEPFRSVG LPIGLPLSSM IPYTHFDVQF LEKFGVTFRR EGETVTLKCT</p> <p>MLVTPDLKRV QPRAEWYRDD VLLKESKGTK MFFGEGQASL SFSHLHKDDE GLYTLRIVSR</p> <p>GGVSDHSAFL FVRDADPLVT GAPGAPMDLQ CHDANRDYVI VTWKPPNTTT ESPVMGYFVD</p> <p>RCEVGTNNWV QCNDAPVKIC KYPVTGLFEG RSYIFRVRAV NSAGISRPSR VSDAVAALDP</p> <p>LDLRRQLQAVH LEKEKEIAIY QDDLEGDAQV PGPPTGVHAS EISRNYVVLS WEPPTPRGKD</p> <p>PLMYFIEKSV VGSGSWQRVN AQTAVRSPRY AVFDLMEGKS YVFRVLSANR HGLSEPSEIT</p> <p>SPIQAQDVTV VPSAPGRVLA SRNTKTSVVV QWDRPKHEED LLGYYVDCCV AGTNLWEPNCN</p>

HKPIGYNRFV VHGLTTGEQY IFRVKAVNAV GMSSENSQESD VIKVQAALTV PSHPYGITLL
NCDGHSMTLG WKVPKFSGGS PILGYLDKR EVHHKNWHEV NSSPSKPTIL TVDGLTEGSL
YEFKIAAVNL AGIGEPSDPS EHFKEAWTM PEPGPAYDLT FCEVRDTSVL MLWKAPVYSG
SSPVSGYFVD FREEDAGEWI TVNQTTTASR YLKVSDLQQG KTYVFRVRV NANGVGKPSD
TSEPVLVEAR PGTKEISAGV DEQGNILGF DCQEMTDASQ FTWCKSYEEI SDDERFKIET
VGDHSLYLYK NPDKEDLGTYSVSVSDTDGV SSSFVLDPEE LERLMALSNE IKNPTIPLKS
ELAYEIFDKG RVRFWLQAEH LSPDASYRFI INDREVSDSE IHRICKDKAT GIEMVMDF
SIENEGTYTV QIHDGKAKSQ SSLVLIGDAF KTVLEEAFFQ RKEFLRKQGP HFAEYLHWDV
TEECEVRLVC KVANTKKETV FKWLKDDVLY ETETLPNLER GICELLIPKL SKKDHGEYKA
TLKDDRGQDV SILEIAGKVY DDMILAMSRV CGKSASPLKV LCTPEGIRLQ CFMKYFTDEM
KVNWCHKDAK ISSSEHMRIG GSEEMAWLQI CEPTKDKGK YTFEIDGKD NHQRSLDLSG
QAFDEAFAEF QQFKAAFAE KNRGRLIGGL PDVVTIMEGK TLNLTCTVFG NPDPEVIWFK
NDQDIQLSEH FSVKVEQAKY VSMTIKGVTS EDSGKYSINI KNKYGGEEKID VTVSVYKHGE
KIPDMAPPQQ AKPKLIPASA SAAGQ

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

Product 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!

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:	MYOM2
Alternative Name:	MYOM2 (MYOM2 Products)
Background:	Myomesin-2 (165 kDa connectin-associated protein) (165 kDa titin-associated protein) (M-protein) (Myomesin family member 2),FUNCTION: Major component of the vertebrate myofibrillar M band. Binds myosin, titin, and light meromyosin. This binding is dose dependent.
Molecular Weight:	164.9 kDa
UniProt:	P54296

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.

Application Details

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