

Datasheet for ABIN3123434  
**Microrchidia 2A Protein (MORC2A) (AA 1-1030) (Strep Tag)**



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Overview

Quantity:	250 µg
Target:	Microrchidia 2A (MORC2A)
Protein Characteristics:	AA 1-1030
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Microrchidia 2A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAFTNYSSLN RAQLTFEYLH TNSTTHEFLF GALAELVDNA RDADATRIDI YARREDLRG GFMLCFLDDG AGMDPSDAAS VIQFGKSAKR TPESTQIGQY GNGLKSGSMR IGKDFILFTK KEDTMTCLFL SRTFHEEEGI DEVIVPLPTW NARTREPITD NVEKFAIETE LVYKYS PFHT EEQVMNQFMK IPGNSGTLVI IFNLKLM DNG EPELDIISNP KDIQMAETSP EGTKPERRSF RAYAAVLYID PRMRIFIHGH KVQTKRLSCC LYKPRMYKYT SSRFKTRAEQ EVKKAEHVAR IAEEKAREAE SKARTLEVRM GGDLTRDSRV MLRQVQNTAI TLRREADVKK RIKDAKQRAL KEPKELNFVF GVNIEHRDLD GMFIYNCSRL IKMYEKVGPQ LEGGMACGGV VGVVDVPYLV LEPTHNKQDF ADAKEYRHLL RAMGEHLAQY WKDIAIAQRG IIKFWDEFGY LSANWNQPPS SELRFKRRRA MEIPTTIQCD LCLKWRTL PF QLSSVETDYP DTWVCSMNPD PEQDRCEASE QKQKVPLGTL KKDPKTQEEK QKQLTEKIRQ QQEKLEALQK TTPIRSQADL KKLPLEVTTR PIEEPVR RPQ RPRSPPLPAV IKNAPSRPPS IQTPRPSTQL RKTSVISLPK PPTTAARGET

STSRLLQPT E APRKPANPPI KTVPRPTPPV HTPPLSLIPS SKSLREVPAQ KAIKTPVVKK  
PEPPVKQSV A TSGRK RSLAV SDEEEAEEEA EKRRERCKRG KLAVKEEKKE ANELSDSAGE  
DHPAELRKAQ KDKGLHVEVR VNREWYTGRV TAVEVGKNAV RWKVKFDYVP TDTTPRDRWV  
EKGSEDVRLM KPPSPEHQSP DTQQEGGEEE EAMVARQAVA LPEPSTSDGL PIEPDTTATS  
PSHETIDLLV QILRNCLRYF LPPSPFISKK ELSVMNSEEL ISFPLKEYFK QYEVGLQNLC  
HSYQSRADSR AKASEESLRT SEKKLRETEE KLQKLRTNIV ALLQKVQEDI DINTDDELDA  
YIEDLITKGD

**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.**

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### 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.

## Product Details

- 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: Microrchidia 2A (MORC2A)

Alternative Name: Morc2a

Background: ATPase MORC2A (EC 3.6.1.-) (MORC family CW-type zinc finger protein 2A) (Zinc finger CW-type coiled-coil domain protein 1),FUNCTION: Essential for epigenetic silencing by the HUSH complex. Recruited by HUSH to target site in heterochromatin, the ATPase activity and homodimerization are critical for HUSH-mediated silencing (By similarity). Represses germ cell-related genes and L1 retrotransposons in collaboration with SETDB1 and the HUSH complex, the silencing is dependent of repressive epigenetic modifications, such as H3K9me3 mark (PubMed:29728365). Silencing events often occur within introns of transcriptionally active genes, and lead to the down-regulation of host gene expression. During DNA damage response, regulates chromatin remodeling through ATP hydrolysis (By similarity). During DNA damage response, may regulate chromatin remodeling through ATP hydrolysis (By similarity). {ECO:0000250|UniProtKB:Q9Y6X9, ECO:0000269|PubMed:29728365}.

Molecular Weight: 117.3 kDa

UniProt: [Q69ZX6](#)

## 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

## Application Details

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modifications.

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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
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Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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