

Datasheet for ABIN3131195

MORC3 Protein (AA 1-942) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MORC3
Protein Characteristics:	AA 1-942
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MORC3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAAQPTGIR LSALCPKFLH TNSTSHTWPF SAVAELIDNA YDPDVNAKQI WIDKTVISDH ICLTFTDNGN GMTADKLHKM LSFSGFSKVT MNGHVPVGLY GNGFKSGSMR LGKDAMVFTK NGETMSVGFL SQTYLEVIKA EHVVPVITF NKHRQMINLT ESKASLAAIL EHSLFSTEQK LLAELNAIMG KKGTRIIWN LRSYKNATEF DFEKDYDIR IPEDLDETAG RKGYYKQERM DQIAPESDYS LRAYCSILYL KPRMQIIIRG QKVKTQLVSK SLAYIERDVY RPKFLTRTVR ITFGFNCRNK DHYGYMMYHK NRLIKAYEKV GCQLKANNMG VGVVGIIECN FLKPTHNKQD FDYTNEYRLT ILALGEKLN YWNEMKVKKK AEYPVNLPVE DIQKRPDQTW VQCDACLKWR KLPDGIDQLP EKWYCSNNPD PQFRNCEVPE EPEDEDLVHP TYEKTYKKS KERFRIRQPE ILPRILPQIN PELLYQTSVS SQSFSPVKES VPRPHLSEVT SPFAARIINL NLASPASEPE NSSMKRKLGV HSSILNAKTR RLSNPPVENS SYKNDDDEDV IILEENSTPK PAVDLEVKSD IEVKSEQSHT EQSGIHVDLV SSPKPCVQAS STSTSTSRSD PGITVSTQTD APGLTVKKEE

SMEE DMGVRN GTATLSCVGT EAKVQETSAE SVDATSHQLQ ELRSELLVVT QERDDYKRQC
QMFTDQIQVL QQRLLMNDK CVKKEKCHQS TETDAVFLLD SVNGQAESLD HLG SQYQQAL
QEIERLKRQC SALQQVKSEC SQASCTESKS EVDEMAVQLD DVFRQLDKCT IERDQYKNEV
QLLEIEKSHI HSQCEELQTE VEQLKSTGQQ AAADGSTASN AEEPVS YVDG ESLKLRSLRV
NVGQLLAMIV PDL DLQVNY DVDVDEILG QVVEQMSEIS ST

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!

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.

Product Details

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:	MORC3
Alternative Name:	Morc3 (MORC3 Products)
Background:	MORC family CW-type zinc finger protein 3 (Nuclear matrix protein 2) (Zinc finger CW-type coiled-coil domain protein 3),FUNCTION: Nuclear matrix protein which forms MORC3-NBs (nuclear bodies) via an ATP-dependent mechanism and plays a role in innate immunity by restricting different viruses through modulation of the IFN response. Mechanistically, possesses a primary antiviral function through a MORC3-regulated element that activates IFNB1, and this function is guarded by a secondary IFN-repressing function. Sumoylated MORC3-NBs associates with PML-NBs and recruits TP53 and SP100, thus regulating TP53 activity (PubMed:17332504). Binds RNA in vitro. Histone methylation reader which binds to non-methylated (H3K4me0), monomethylated (H3K4me1), dimethylated (H3K4me2) and trimethylated (H3K4me3) 'Lys-4' on histone H3. The order of binding preference is H3K4me3 > H3K4me2 > H3K4me1 > H3K4me0. {ECO:0000250 UniProtKB:Q14149, ECO:0000269 PubMed:17332504}.
Molecular Weight:	106.5 kDa
UniProt:	F7BJB9
Pathways:	Maintenance of Protein Location

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

Application Details

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!

Restrictions:	For Research Use only
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Handling

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 Might differ depending on protein.
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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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