

Datasheet for ABIN3134981

MICALL2 Protein (AA 1-1009) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MICALL2
Protein Characteristics:	AA 1-1009
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MICALL2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MAAIKALQEW CRQQCEGYRD VSITNMTTSF RDGLAFCAIL HRHRPDLINF SALRKENIYE</p> <p>NNKLAFQVAE EQLGIPALLD AEDMVALKVP DRLSILTYVS QYYNYFHGRS PIGGMAGIKR</p> <p>PSSDSTEELS GKKGLSQPAK LPSPAQTQRS PLSPARTNPV VQRNEGGSQR PSPKAAPGTA</p> <p>GSSVSSICGV CGKHVHLVQR HLADGRLYHR SCFRCKQCSS TLHSGAYRAT GEPGVFVCTH</p> <p>HSSEVTSVSP KSSNLASRKP GGV TADTRPF GVS WTVQEAN GEGTPLRVRT AAWEHAGGNT</p> <p>TAKGFVQTEL KPPSTSQVHV GSSAGPKLPT ITVTTSVTS KALTHVTNSS PIGWSSPAQS</p> <p>SPANFN SRPV VSPSARNTHL PGSQGQTASK GVK TQLNLNS ESSNTAVTPA WTSSASKTQQ</p> <p>AREKFFQTPP SAPAPASAPA PAPT SKVPTV VTVPTSKVPN VVTAPTSKVP TVVTVP TSKV</p> <p>PTVVSAPTSK VPTVVSAPTS KVPTVVNSTN SRVTTVVNAP TSKVPTV VSA TNGRVPTVVT</p> <p>AHTGRVPAVM NTSASKVSPV VDAPAQESSR EQALS VLRKA LPALTGSGTQ APNRSFPATS</p> <p>SVLVTL PKNE VPQKVPSDKL SALT TQTPNF TIKLEPSAPV NVGNTAVFLQ AGKKSPSISP</p>

RVGKTSVGSR PQAEVAGVKG PGPISQEGQE EGPEGWRARL KPVDKKTPAG RSLEQKEPVL
AEPRIGDTSR KASSSSDSSV HITLTSIQHK RKPCPAGSGP SPAALSPSPS HRKKLAVPPS
LDVSADWLQP EPKKQEDGTR SCKEEKSPTR WSRERSAVLD SGLAPPGEAV TSPVRLHPDI
IPQEELQRQL QDIESQLDAL ELRGVELEKR LRAAEGDASE DSLMVDWFRL IHEKQLLLRL
ESELMYKSKD QRLEEQQLDL QGELRRLMDK PEGLKSPQDR QREQELLSQY VNTVNDRSDI
VDFLDEDRLR EQEEDQMLN MIQNLGLQRK KSKSFLSKIW SSKSKSGQA

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.

Product Details

- 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: MICALL2

Alternative Name: Micall2 ([MICALL2 Products](#))

Background: MICAL-like protein 2 (Junctional Rab13-binding protein) (Molecule interacting with CasL-like 2) (MICAL-L2), FUNCTION: Effector of small Rab GTPases which is involved in junctional complexes assembly through the regulation of cell adhesion molecules transport to the plasma membrane and actin cytoskeleton reorganization. Regulates the endocytic recycling of occludins, claudins and E-cadherin to the plasma membrane and may thereby regulate the establishment of tight junctions and adherens junctions. In parallel, may regulate actin cytoskeleton reorganization directly through interaction with F-actin or indirectly through actinins and filamins. Most probably involved in the processes of epithelial cell differentiation, cell spreading and neurite outgrowth. {ECO:0000269|PubMed:16525024, ECO:0000269|PubMed:18094055, ECO:0000269|PubMed:20008558, ECO:0000269|PubMed:23100251, ECO:0000269|PubMed:23890175}.

Molecular Weight: 108.3 kDa

UniProt: [Q3TN34](#)

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.

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