

Datasheet for ABIN3093656

MAGI2 Protein (AA 1-1455) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	MAGI2
Protein Characteristics:	AA 1-1455
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAGI2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MSKSLKKKSH WTSKVHESVI GRNPEGQLGF ELKGAENGQ FPYLGEVKPG KVAYESGSKL VSEELLLEVN ETPVAGLTIR DVLAVIKHCK DPLRLKCVKQ GGIVDKDLRH YLNLRFQKGS VDHELQQIIR DNLYLRTVPC TTRPHKEGEV PGVDYIFITV EDFMELEKSG ALLESPTYED NYYGTPKPPA EPAPLLLNVT DQILPGATPS AEGKRKRNKS VSNMEKASIE PEEEEEEERP VVNGNGVWVT PESSEHEDKS AGASGEMPSQ PYPAPVYSQP EELKEQMDDT KPTKPEDNEE PDPLPDNWEM AYTEKGEVYF IDHNTKTTSW LDPRLAKKAK PPEECKENEL PYGWEKIDDP IYGTYVVDHI NRRTQFENPV LEAKRKLQQH NMPHTELGTK PLQAPGFREK PLFTRDASQL KGTFLSTTLK KSNMGFGFTI IGGDEPDEFL QVKSVIPDGP AAQDGKMETG DVIVYINEVC VLGHTHADVV KLFQSVPIGQ SVNVLVLCRGY PLPFDPEDPA NSMVPPLAIM ERPPPVMMVNG RHNYETYLEY ISRTSQSVPD ITDRPPHSLH SMPTDGQLDG TYPPPVHDDN VSMASGATQ AELMTLTIVK GAQGFSGFTIA DSPTGQVRVKQ ILDIQGCPGL CEGDLIVEIN QQNVQNLST EVVDILKDCP IGSETSLIHH RGGFFSPWKT PKPIMDRWEN QGSPQTSLSA PAIPQNLPPF
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PALHRSSFPD STEAFDPRKP DPYELYEKSR AIYESRQQVP PRTSFRMDSS GPDYKELDVH
LRRMESGFGF RILGGDEPGQ PILIGAVIAM GSADRDGRLH PGDELVYVDG IPVAGKTHRY
VIDLMHHAAR NGQVNLTVRR KVLGGGEPCP ENGRSPGSVS THHSSPRSDY ATYTNSNHAA
PSSNASPPEG FASHSLQTSV VVIHRKENEG FGFVISSLN RPESGSTITV PHKIGRIIDG
SPADRCALKK VGDRILAVNG QSIINMPHAD IVKLIKDAGL SVTLRIIPQE ELNSPTSAPS
SEKQSPMAQQ SPLAQQSPLA QPSPATPNSP IAQPAPPQPL QLQGHENSYR SEVKARQDVK
PDIRQPPFTD YRQPPLDYRQ PPGGDYQQPP PLDYRQPPLL DYRQHSPDTR QYPLSDYRQP
QDFDYFTVDM EKGAKGFGFS IRGGREYKMD LYVLRLAEDG PAIRNGRMRV GDQIIEINGE
STRDMTHARA IELIKSGGRR VRLLLKRG TG QVPEYDEPAP WSSPAAAAPG LPEVGVSLDD
GLAPFSPSHP APPSDPSHQI SPGPTWDIKR EHDVRKPKEL SACGQKKQRL GEQRERSASP
QRAARPRLEE APGGQGRPEA GRPASEARAP GLAAADAADA ARAGGKEAPR AAAGSELCRR
EGPGAAPAFA GPGGGGSGAL EAEGRAGARA GPRPGPRPPG GAPARKAAVA PGPWKVPGSD
KLPSVLKPGA SAASR

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
 - We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	MAGI2
Alternative Name:	MAGI2 (MAGI2 Products)
Background:	Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 2 (Atrophin-1-interacting protein 1) (AIP-1) (Atrophin-1-interacting protein A) (Membrane-associated guanylate kinase inverted 2) (MAGI-2),FUNCTION: Seems to act as a scaffold molecule at synaptic junctions by assembling neurotransmitter receptors and cell adhesion proteins (By similarity). Plays a role in nerve growth factor (NGF)-induced recruitment of RAPGEF2 to late endosomes and neurite outgrowth (By similarity). May play a role in regulating activin-mediated signaling in neuronal cells (By similarity). Enhances the ability of PTEN to suppress AKT1 activation (PubMed:10760291). Plays a role in receptor-mediated clathrin-dependent

Target Details

	endocytosis which is required for ciliogenesis (By similarity). {ECO:0000250 UniProtKB:O88382, ECO:0000250 UniProtKB:Q9WVQ1, ECO:0000269 PubMed:10760291}.
Molecular Weight:	158.8 kDa
UniProt:	Q86UL8
Pathways:	Neurotrophin Signaling Pathway

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:	<p>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.</p> <p>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!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process