



[Go to Product page](#)

Datasheet for ABIN3135957  
**MAP6 Protein (AA 1-906) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	MAP6
Protein Characteristics:	AA 1-906
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP6 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Sequence: MAWPCITRAC CIARFWNQLD KADIAVPLVF TKYSEATEHP GAPPQPPAPL QPALAPPSRA  
VAIETQPAQG ESDAVARATG PAPGPSVDRE TVAAPGRSGL GLGAASASTS GSGPADSVMR  
QDYRAWKVQR PEPSCRPRSE YQPSDAPFER ETQYQKDFRA WPLPRRGDHP WIPKPVQIPA  
TSQPSQPVLG VPKRRPQSQE RGPMLSADA RDPEGAGGAG VLAAGKASGV DQRDTRRKAG  
PAWMVTRNEG HEEKPLPPAQ SQTQEGGPA G KASGADQRD TRRKAGPAWM VTRSEGHEEK  
PLPPAQSTQ EGGPAAGKAS GADQRDTRRK AGPAWMVTRT EGHEETPLPP AQSQTQEGGP  
AAGKASGADE RDTRRKAGPA WMVRRSEGHE QTPAAHAQGT GPEGGKGRAV ADALNRQIRE  
EVASTVSSSY RNEFRAWTDI KPVKPIKAKP QYKPPDDKMV HETSYSAQFK GEANKPSAAD  
NKAMDRRRIR SLYSEPFKEC PKVEKPSVQS SKPKKTSTSH KPPRKAKDKQ VVSGQAAKKK  
TTEGPSATKP DDKEQSKEMN NKLAEAKESR VKPTSDASKN RGPVTKEPHK DQGSVAPGLP  
KGQEPLKDQG PVPGLPKDQ VPVPGSLKG QSPTAPGPTK DQGAVLLGPV KDLGPVAPAP  
IKVQDHIASE LLKNKDSVPL APAKAQSPLL PEPLKNQSPV VPASTKDQSF PTPAPRKDPG

PVPIPEKDR APTVPERRKD QHVSIMASLK NEAPMVPEVS KNQGLAGPEL VKDTGDTTAA  
PRYLKGHDSV FVAPVKNQGP VIEPVKSQD PIIPALAKDQ GPMLPEPPKN QSPVVLGPIK  
NQDPIIPVPL KGQDPLVPAP TKDQGPTAPD PLKTQGPKGT QLPTVSPSP VMIPTVPHTE YIEGSP

**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 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 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.

## Product Details

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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)

## Target Details

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Target:	MAP6
Alternative Name:	Map6 ( <a href="#">MAP6 Products</a> )
Background:	Microtubule-associated protein 6 (MAP-6) (Stable tubule-only polypeptide) (STOP),FUNCTION: Involved in microtubule stabilization in many cell types, including neuronal cells (PubMed:9600916). Specifically has microtubule cold stabilizing activity (PubMed:9600916). Involved in dendrite morphogenesis and maintenance by regulating lysosomal trafficking via its interaction with TMEM106B (By similarity). Regulates KIF5A-mediated axonal cargo transport (By similarity). Regulates axonal growth during neuron polarization (PubMed:28521134). {ECO:0000250 UniProtKB:Q63560, ECO:0000250 UniProtKB:Q96JE9, ECO:0000269 PubMed:28521134, ECO:0000269 PubMed:9600916}.
Molecular Weight:	96.5 kDa
UniProt:	<a href="#">Q7TSJ2</a>

## Application Details

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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.  During lysate production, the cell wall and other cellular components that are not required for

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Restrictions: For Research Use only

## Handling

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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)