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Datasheet for ABIN3093617  
**MAP3K4 Protein (AA 1-1608) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	MAP3K4
Protein Characteristics:	AA 1-1608
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

### Product Details

Sequence: MREAAAALVP PPAFAVTPAA AMEPPPPPP PPPPPPEPET ESEPECCLAA RQEGTLGDSA  
CKSPESDLED FSDETNTENL YGTSPSTPR QMKRMSTKHQ RNNVGRPASR SNLKEKMNAP  
NQPPHKDTGK TVENVEEYSY KQEKKIRAAL RTTERDRKKN VQCSFMLDSV GGLPKKSIP  
DVDLNKPYLS LGCSNAKLPV SVPMPIARPA RQTSRTDCPA DRLKFFETLR LLLKLTSVSK  
KKDREQRGQE NTSGFWLNRS NELIWLELQA WHAGRTINDQ DFFLYTARQA IPDIINEILT  
FKVDYGSFAF VRDRAGFNGT SVEGQCKATP GTKIVGYSTH HEHLQRQRVS FEQVKRIMEL  
LEYIEALYPS LQALQKDYEK YAAKDFQDRV QALCLWLNIT KDLNQKLKRM GTVLGIKNLS  
DIGWPVFEIP SPRPSKGNP EYEGDDTEGE LKELESSTDE SEEEQISDPR VPEIRQPIDN  
SFDIQRDCI SKKLERLESE DDSLGGWAPD WSTEAGFSRH CLTSIYRPFV DKALKQMGLR  
KLILRLHKLM DGSLQRARIA LVKNDRPVEF SEFPDPMWGS DYVQLSRTPP SSEEKCSAVS  
WEELKAMDLP SFEPAFVLC RVLLNVIHEC LKLRLEQRPA GEPSSLKSIKQ LVRECKEVLK  
GGLLMKQYYQ FMLQEVLEDL EKPDCNIDAF EEDLHKMLMV YFDYMRSWIQ MLQQLPQASH

SLKNLLEEEW NFKKEITHYI RGGEAQAGKL FCDIAGMLLK STGSFLEFGL QESCAEFWTS  
ADDSSASDEI RRSVIEISRA LKELFHEARE RASKALGFAK MLRKDLEIAA EFRLSAPVRD  
LLDVLKSKQY VKVQIPGLEN LQMFVPDTLA EEKSILQLL NAAAGKDCSK DSDDVLIDAY  
LLLTKHGDRA RSEDSWGTW EAQPVKVVQP VETVDTLRSM QVDNLLLVVM QSAHLTIQRK  
AFQQSIEGLM TLCQEQTSSQ PVIKALQQL KNDALCNR ISNAIDRVDH MFTSEFDAEV  
DESESVTLQQ YYREAMIQGY NFGFEYHKEV VRLMSGEFRQ KIGDKYISFA RKWMNYVLTK  
CESGRGTRPR WATQGFDFLQ AIEPAFISAL PEDDFLSLQA LMNECIGHVI GKPHSPVTGL  
YLAIHRNSPR PMKVPRCHSD PPNPHLIPT PEGFSTRSMP SDARSHGSPA AAAAAAAAAAV  
AASRPSPSGG DSVLPKSISS AHDTRGSSVP ENDRLASIAA ELQFRSLSRH SSPTERDEP  
AYPRGDSSGS TRRSWELRTL ISQSKDTASK LGPIEAIQKS VRLFEEKRYR EMRRKNIIGQ  
VCDTPKSYDN VMHVGLRKVT FKWQRGNKIG EGQYGKVTY ISVDTGELMA MKEIRFQPN  
HKTIKETADE LKIFEGIKHP NLVRYFGVEL HREEMYIFME YCDEGTLEEV SRLGLQEHVI  
RLYSKQITIA INVLHEHGIV HRDIKGANIF LTSSGLIKLG DFGCSVKLKN NAQTMPGEVN  
STLGTAAYMA PEVITRAKGE GHGRAADIWS LGCVVIEMVT GKRPWHEYEH NFQIMYKVG  
GHKPPPERL SPEGKDFLSH CLESDPKMRW TASQLLDHSF VKVCTDEE

**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-

## Product Details

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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.

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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)

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## Target Details

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Target:	MAP3K4
Alternative Name:	MAP3K4 ( <a href="#">MAP3K4 Products</a> )
Background:	Mitogen-activated protein kinase kinase kinase 4 (EC 2.7.11.25) (MAP three kinase 1) (MAPK/ERK kinase kinase 4) (MEK kinase 4) (MEKK 4),FUNCTION: Component of a protein kinase signal transduction cascade. Activates the CSBP2, P38 and JNK MAPK pathways, but not the ERK pathway. Specifically phosphorylates and activates MAP2K4 and MAP2K6. {ECO:0000269 PubMed:12052864, ECO:0000269 PubMed:9305639}.
Molecular Weight:	181.7 kDa
UniProt:	<a href="#">Q9Y6R4</a>

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## Target Details

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Pathways: [MAPK Signaling](#)

## 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 *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!

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)