

Datasheet for ABIN3135012

MAP3K9 Protein (AA 1-1077) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MAP3K9
Protein Characteristics:	AA 1-1077
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K9 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MESSRSLLGC LASATAAPPG DDATGAGAAE EEEEEAAAAE LGSHAALPYW TAVFEYEAAG</p> <p>EDELTLRLGD VVEVLSKDSQ VSGDEGWWTG QLNQRVGIFP SNYVTPRSAF SSRCQPGAED</p> <p>PSCYPPIQLL EIDFAELTLE EIIGIGGFGK VYRAFWAGDE VAVKAARHDP DEDISQTIEN</p> <p>VRQEAKLFAM LKHPNIIALR GVCLKEPNLC LVMEFARGGP LNRVLSGKRI PPDILVNWAV</p> <p>QIARGMNYLH DEAIVPIIHR DLKSSNILIL QKVENGDLN KILKITDFGL AREWHRTTKM</p> <p>SAAGTYAWMA PEVIRASMFS KGSDVWSYGV LLWELLTGEV PFRGIDGLAV AYGVAMNKLA</p> <p>LPISTCPEP FAKLMEDCWN PDPHSRPSFT SILDQLTTIE ESGFFEMPKD SFHCLQDDWK</p> <p>HEIQEMFDQL RAKEKELRTW EEELTRAAEQ QKNQEELLRR REQELAEREI DILERELNII</p> <p>IHQLCQEKPR VKKRKGKFRK SRLKLKDGNR ISLPDFQHK FTVQASPTMD KRKSLISNRS</p> <p>SPPASPTIIP RLRAIQLTPG ESSKTWGRSS VVPKEEGEEE EKRAPKKKGR TWGPGTLGQK</p> <p>ELTSGDEGLK SLVDGYKQWS SSAPNLGKGP RSSPALPGFT SLMEIEDEDS EGPGENHQA</p>

QHSPNQSYLC IPFPRGEDGD GPSSDGVHEE PTPVNSATST PQLTPTNSLK RGGTHHRRCE
VALLGCGAVL AATGLGFDLL EAGKCQLLPP EEPEPPAREE KKRREGLFQR ASRPRRSTSP
PSRKLFKKEE PMTLLGDPSA SLTLLSLSSI SECNSTRSLL RSDSDEIVVY EMPVSPVEAP
PLTQCTHNPL VNVVERFKR DPNQSLTPH VTLTAPTQPS GHRRTPSDGA LKPTAAPAVL
GSRSPSSNGM SPSPGTGMLK TPSPSRDPGE FPRLDPNVV FPPTPRRWNT QRDSTLERPK
TLEFLPRPRP SANRQRLDPW WfvSPSHARS ASPANSSSTE TPSNLDSCFA SSSSTVEERP
GLPALLPLQA GPLLPAERTL LDLDAGQSQ DSTVPLCRAE LNAHGSPSYE IQQEFWS

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.

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- 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.

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: MAP3K9

Alternative Name: Map3k9 ([MAP3K9 Products](#))

Background: Mitogen-activated protein kinase kinase kinase 9 (EC 2.7.11.25),FUNCTION: Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade through the phosphorylation of MAP2K4/MKK4 and MAP2K7/MKK7 which in turn activate the JNKs. The MKK/JNK signaling pathway regulates stress response via activator protein-1 (JUN) and GATA4 transcription factors. Also plays a role in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis (By similarity). {ECO:0000250}.

Molecular Weight: 118.8 kDa

UniProt: [Q3U1V8](#)

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.

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Application Details

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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