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Datasheet for ABIN3093672

## MAST3 Protein (AA 1-1309) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	MAST3
Protein Characteristics:	AA 1-1309
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAST3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence: MDESSLRRR GLQKELSLPR RGRGCRSGNR KSLVVGTPSP TLSRPLSPLS VPTAGSSPLD  
SPRNFSAASA LNFPFARRAD GRRWSLASLP SSGYGTNTPS STLSSSSSSR ERLHQLPFQP  
TPDELHFLSK HFRSSENVLD EEGGRSPRLR PRSRSLSPGR ATGTFDNEIV MMNHVYRERF  
PKATAQMEGR LQEFLTAYAP GARLALADGV LGFIHHQIVE LARDCLAKSG ENLVTSRYFL  
EMQEKLERLL QDAHERSDSE EVSFIVQLVR KLLIISRPA RLLECLEFDP EEFYHLLLEAA  
EGHAREGQGI KTDLPQYIIG QLGLAKDPLE EMVPLSHLEE EQPPAPESPE SRALVGQSRR  
KPCESDFETI KLISNGAYGA VYLVRHRDTR QRFAIKKINK QNLILRNQIQ QVFVERDILT  
FAENPFVSM FCSFETRRHL CMVMEYVEGG DCATLLKNMG PLPVDMARLY FAETVLALEY  
LHNYGIVHRD LKPDNLLITS LGHIKLTDFG LSKIGLMSMA TNLYEGHIEK DAREFIDKQV  
CGTPEYIAPE VIFRQGYGKP VDWWAMGVVL YEFLVGCVPF FGDTPEELFG QVVSDEIMWP  
EGDEALPADA QDLITRLLRQ SPLDRLGTGG THEVKQHPFF LALDWAGLLR HKAEFVPQLE  
AEDDTSYFDT RSERYRHLGS EDDETNDEES STEIPQFSSC SHRFKSVYSS SEFLAVQPTP

TFAERSFSED REEGWERSEV DYGRRLSADI RLRSWTSSGS SCQSSSSQPE RGPSPSLLNT  
ISLDTMPKFA FSEDEGVGP GPAGPKRPVF ILGEPDPPPA ATPVMPKPSS LSADTAALSH  
ARLRNSIGA RHSTPRPLDA GRGRRLLGGPR DPAPEKSRAS SSGSGGGGSG GRVPKSASVS  
ALSLIITADD GSGGPLMSPL SPRSLSSNPS SRDSSPSRDP SPVCGSLRPP IVIHSSGKKY  
GFSLRAIRVY MGDSDVYTVH HVVWSVEDGS PAQEAGLRAG DLITHINGES VLGLVHMDVV  
ELLLKSGNKI SLRTTALENT SIKVGPARKN VAKGRMARRS KRSRRRETQD RRKSLFKKIS  
KQTSVLHTSR SFSSGLHHSLS SSESPLGSP THSLSPSPTT PCRSPAPDVP ADTTASPPSA  
SPSSSSPASP AAAGHTRPSS LHGLAAKLGPR PRPKTGRRKS TSSIPPSPLA CPPISAPPPR  
SPSPLPGHPP APARSPRLRR GQSADKLTGT ERLDGEAGRR TRGPEAELVV MRRLHLSERR  
DSFKKQEAQV EVSFDEPQEE ATGLPTSVPQ IAVEGEEAVP VALGPTGRD

**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 -

## Product Details

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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)
Grade:	Crystallography grade

## Target Details

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Target:	MAST3
Alternative Name:	MAST3 ( <a href="#">MAST3 Products</a> )
Background:	Microtubule-associated serine/threonine-protein kinase 3 (EC 2.7.11.1)
Molecular Weight:	143.1 kDa
UniProt:	<a href="#">O60307</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

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## Application Details

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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)

## Images

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