

Datasheet for ABIN3125508

TGM4 Protein (AA 1-670) (Strep Tag)



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Quantity:	250 μg
Target:	TGM4
Protein Characteristics:	AA 1-670
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGM4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Brand:	AliCE®
Sequence:	MDSRNVLIIY AVNVERKLNA AAHHTSEYQT KKLVLRRGQI FTLKVILNRP LQPQDELKVT
	FTSGQRDPPY MVELDPVTSY RSKGWQVKIA KQSGVEVILN VISAADAVVG RYKMRVNEYK
	AGVFYLLFNP WCSDDSVFMA SEEERAEYIL NDTGYMYMGF AKQIKEKPWT FGQFEKHILS
	CCFNLLFQLE NNEMQNPVLV SRAICTMMCA ANGGVLMGNW TGDYADGTAP YVWTSSVPIL
	QQHYVTRMPV RYGQCWVFSG ILTTALRAVG IPARSVTNFE SAHDTEKNLT VDIYLDESGK
	TIPHLTKDSV WNFHVWTDAW MKRQDLPHGY DGWQVLDSTP QEISDGGFRT GPSPLTAIRQ
	GLIQMKYDTT FVFTEVNGDK FIWLVKQNQE REKNILIAVE TASLGKKIST KMVGENRRED
	ITLQYRFPEG SPEERKVMAK ASGKPSDDKL NSRTLNNSLQ ISVLQNSLEL GAPIYLTITL
	KRKTATPQNV NISCSLNLQT YTGNKKTNLG VIQKTVQIHG QESRVFLTMD ASYYIYKLGM
	VDDEMVIGGF IIAEIVDSGE RVATDTTLCF LYSAFSVEMP STGKVKQPLV ITSKFTNTLP
	IPLTNIKFSV ESLGLANMKS WEQETVPPGK TITFQMECTP VKAGPQKFIV KFISRQVKEV

HAEKVVLISK

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 posttranslational 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 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®).

Product Details	
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	TGM4
Alternative Name:	Tgm4 (TGM4 Products)
Background:	Protein-glutamine gamma-glutamyltransferase 4 (EC 2.3.2.13) (Experimental autoimmune prostatitis antigen 1) (Transglutaminase-4) (TGase-4),FUNCTION: Associated with the mammalian reproductive process. Plays an important role in the formation of the seminal coagulum through the cross-linking of specific proteins present in the seminal plasma. Transglutaminase is also required to stabilize the copulatory plug. {ECO:0000269 PubMed:19027372}.
Molecular Weight:	75.6 kDa
UniProt:	Q8BZH1
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:	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!

For Research Use only

Restrictions:

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