

Datasheet for ABIN3074029

TGM4 Protein (AA 1-684) (Strep Tag)



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Quantity:	250 μg
Target:	TGM4
Protein Characteristics:	AA 1-684
Origin:	Human
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

Product Details

Brand:	AliCE®
Sequence:	MMDASKELQV LHIDFLNQDN AVSHHTWEFQ TSSPVFRRGQ VFHLRLVLNQ PLQSYHQLKL
	EFSTGPNPSI AKHTLVVLDP RTPSDHYNWQ ATLQNESGKE VTVAVTSSPN AILGKYQLNV
	KTGNHILKSE ENILYLLFNP WCKEDMVFMP DEDERKEYIL NDTGCHYVGA ARSIKCKPWN
	FGQFEKNVLD CCISLLTESS LKPTDRRDPV LVCRAMCAMM SFEKGQGVLI GNWTGDYEGG
	TAPYKWTGSA PILQQYYNTK QAVCFGQCWV FAGILTTVLR ALGIPARSVT GFDSAHDTER
	NLTVDTYVNE NGEKITSMTH DSVWNFHVWT DAWMKRPDLP KGYDGWQAVD ATPQERSQGV
	FCCGPSPLTA IRKGDIFIVY DTRFVFSEVN GDRLIWLVKM VNGQEELHVI SMETTSIGKN
	ISTKAVGQDR RRDITYEYKY PEGSSEERQV MDHAFLLLSS EREHRRPVKE NFLHMSVQSD
	DVLLGNSVNF TVILKRKTAA LQNVNILGSF ELQLYTGKKM AKLCDLNKTS QIQGQVSEVT
	LTLDSKTYIN SLAILDDEPV IRGFIIAEIV ESKEIMASEV FTSFQYPEFS IELPNTGRIG QLLVCNCIFK
	NTLAIPLTDV KFSLESLGIS SLQTSDHGTV QPGETIQSQI KCTPIKTGPK KFIVKLSSKQ

VKEINAQKIV LITK

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) (Fibrinoligase) (Prostate transglutaminase) (Prostate-specific transglutaminase) (Transglutaminase P) (TG(P)) (TGP) (TGase P) (Transglutaminase-4) (TGase-4),FUNCTION: Associated with the mammalian reproductive process. Catalyzes the cross-linking of proteins and the conjugation of polyamines to specific proteins in the seminal tract.	
Molecular Weight:	77.1 kDa	
UniProt:	P49221	
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!	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	

Handling

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