

Datasheet for ABIN7555767  
**TGM1 Protein (AA 1-817) (His tag)**



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## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | TGM1  |
| Protein Characteristics:      | AA 1-817                                    |
| Origin:                       | Human                                       |
| Source:                       | HEK-293 Cells                               |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This TGM1 protein is labelled with His tag. |
| Application:                  | Western Blotting (WB), SDS-PAGE (SDS)       |

## Product Details

|           |   |
|-----------|---|
| Purpose:  | Custom-made recombinat TGM1 Protein expressed in mammalien cells.   |
| Sequence: | MMDGPRSDVG RWGGNPLQPP TTPSPEPEPE PDGRSRRGGG RSFWARCCGC CSCRNAADDD<br>WGPEPSDSRG RGSSSGTRRP GSRGSDSRRP VSRGSGVNAA GDGTIREGML VVNGVDLLSS<br>RSDQNRREHH TDEYEYDELI VRRGQPFHML LLLSRTYESS DRITLELLIG NNPEVGKGT<br>VIIPVGKGGG GGWKAQVVKV SGQNLNLRVH TSPNAIIGKF QFTVRTQSDA GEFQLPFDPR<br>NEIYILFNPW CPEDIVYVDH EDWRQEYVLN ESGRIYYGTE AQIGERTWNY GQFDHGVLD<br>CLYILDRRGM PYGGRGDPVN VSRVISAMVN SLDDNGVLIG NWSGDYSRGT NPSAWVGSVE<br>ILLSYLRTGY SVPYGCWVF AGVTTTTLRC LGLATRTVTN FNSAHD TDTS LTMDIYFDEN<br>MKPLEHLNHD SVWNFHWND CWMKRPDLPS GFDGWQVDA TPQETSSGIF CCGPCSVESI<br>KNGLVYMKYD TPFIFAEVNS DKVYWQRQDD GSFKIVYVEE KAIGTLIVTK AISSNMREDI<br>TYLYKHPEGS DAERKAVETA AAHGSKPNVY ANRGS AEDVA MQVEAQDAVM GQDLMVSVML<br>INHSSSRRTV KLHLYLSVTF YTGVS GTIFK ETKKEVELAP GASDRVTMPV AYKEYRPHLV |

## Product Details

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DQGAMLLNVS GHVKESGQVL AKQHTFRLRT PDLSTLLGA AVVGQECEVQ IVFKNPLPVT  
LTVVFRLEG SGLQRPKILN VGDIGGNETV TLRQSFVPVR PGPRQLIASL DSPQLSQVHG  
VIQVDVAPAP GDGGFFSDAG GDSHLGETIP MASRGGG **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

TGM1

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### Alternative Name:

TGM1 ([TGM1 Products](#))

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### Background:

Protein-glutamine gamma-glutamyltransferase K (EC 2.3.2.13) (Epidermal TGase) (Transglutaminase K) (TG(K)) (TGK) (TGase K) (Transglutaminase-1) (TGase-1),FUNCTION: Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins. Responsible for cross-linking epidermal proteins during formation of the stratum corneum. Involved in cell proliferation (PubMed:26220141). {ECO:0000269|PubMed:26220141}.

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### Molecular Weight:

89.8 kDa

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## Target Details

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UniProt: [P22735](#)

## 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.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months