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## Datasheet for ABIN3134864 TGM3 Protein (AA 2-467) (His tag)

### Overview

Quantity:	1 mg
Target:	TGM3
Protein Characteristics:	AA 2-467
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGM3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

### Product Details

Sequence: SALQIQNVNW QVPMNRRRAHH TDKFSSQDSI VRRGQPWEII LVCNRSLESG EDLNFIVSTG  
PQPSESARTK AVFSISGRST GGWNAALKAN SGNNLAIAIA SPVSAPIGLY TLSVEISSRG  
RASSLKLGT IMLFNPWLQA DDVFMSNHA E RQEYVEEDSG IIVVGSTNRI GMVGWNFGQF  
EEDILNISLS ILDRSLNFRR DPVTDVARRN DPKYVCRVLS AMINGNDDNG VISGNWSGNY  
TGGVDPRTWN GSVEILKNWK KSGFRPVQFG QCWVFAGTLN TVLRCLGVPS RVITNFNSAH  
DTRNLSDVDV YYDAMGNPLE KGSDSVWNFH VWNEGWFVRT DLGPTYNGWQ VLDATPQERS  
QGVFQCGPAS VNAIKAGDVD RNFD MIFIFA EVNADRITWI YNNRNNTQKQ NSVDTHSIGK  
YISTKAVGSN SRMDVTDKYK YPEGSSSEERQ VHQA LDKLK PNASFG

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Tgm3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to

## Product Details

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ensure crystallization grade.

- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:  1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.  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.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

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Target:	TGM3
Alternative Name:	Tgm3 ( <a href="#">TGM3 Products</a> )

## Target Details

Background:	Catalyzes the calcium-dependent formation of isopeptide cross-links between glutamine and lysine residues in various proteins, as well as the conjugation of polyamines to proteins. Involved in the formation of the cornified envelope (CE), a specialized component consisting of covalent cross-links of proteins beneath the plasma membrane of terminally differentiated keratinocytes. Catalyzes small proline-rich proteins (SPRR1 and SPRR2) and LOR cross-linking to form small interchain oligomers, which are further cross-linked by TGM1 onto the growing CE scaffold (By similarity). In hair follicles, involved in cross-linking structural proteins to hardening the inner root sheath. {ECO:0000250}.
Molecular Weight:	52.9 kDa Including tag.
UniProt:	<a href="#">Q08189</a>

## 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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)