

# Product datasheet for AR51823PU-S

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Transglutaminase-2 (TGM2) (1-687, His-tag) Human Protein

**Product data:** 

Product Type: **Recombinant Proteins** 

**Description:** Transglutaminase-2 (TGM2) (1-687, His-tag) human recombinant protein, 50 µg

Species: Human **Expression Host:** E. coli

**Expression cDNA Clone** 

MGSSHHHHHH SSGLVPRGSH MGSMAEELVL ERCDLELETN GRDHHTADLC REKLVVRRGQ or AA Sequence: PFWLTLHFEG RNYEASVDSL TFSVVTGPAP SQEAGTKARF PLRDAVEEGD WTATVVDQQD

CTLSLQLTTP ANAPIGLYRL SLEASTGYQG SSFVLGHFIL LFNAWCPADA VYLDSEEERQ EYVLTQQGFI

YQGSAKFIKN IPWNFGQFED GILDICLILL DVNPKFLKNA GRDCSRRSSP VYVGRVVSGM

VNCNDDQGVL LGRWDNNYGD GVSPMSWIGS VDILRRWKNH GCQRVKYGQC WVFAAVACTV LRCLGIPTRV VTNYNSAHDQ NSNLLIEYFR NEFGEIQGDK SEMIWNFHCW VESWMTRPDL QPGYEGWQAL DPTPQEKSEG TYCCGPVPVR AIKEGDLSTK YDAPFVFAEV NADVVDWIQQ

DDGSVHKSIN RSLIVGLKIS TKSVGRDERE DITHTYKYPE GSSEEREAFT RANHLNKLAE KEETGMAMRI

RVGQSMNMGS DFDVFAHITN NTAEEYVCRL LLCARTVSYN GILGPECGTK YLLNLNLEPF

SEKSVPLCIL YEKYRDCLTE SNLIKVRALL VEPVINSYLL AERDLYLENP EIKIRILGEP KQKRKLVAEV

SLQNPLPVAL EGCTFTVEGA GLTEEQKTVE IPDPVEAGEE VKVRMDLLPL HMGLHKLVVN

FESDKLKAVK GFRNVIIGPA

Tag: His-tag Predicted MW: 79.7 kDa Concentration: lot specific

**Purity:** >85% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: Liquid, In Phosphate buffered saline (pH 7.4) containing 10% glycerol, 1 mM

DTT

Preparation: Liquid purified protein

**Protein Description:** Recombinant human TGM2, fused to His-tag at N-terminus, was expressed in E.coli and

purified by using conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.





#### Transglutaminase-2 (TGM2) (1-687, His-tag) Human Protein - AR51823PU-S

**Stability:** Shelf life: one year from despatch.

**RefSeq:** NP 001310245

**Locus ID:** 7052

UniProt ID: <u>P21980</u>, <u>V9HWG3</u>

Cytogenetics: 20q11.23

**Synonyms:** G(h); hTG2; TG(C); TGC; tTG

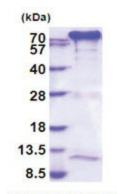
**Summary:** Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma

glutamyl lysine isopeptide bonds. While the primary structure of transglutaminases is not conserved, they all have the same amino acid sequence at their active sites and their activity is calcium-dependent. The protein encoded by this gene acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, the encoded protein is the autoantigen implicated in celiac disease. Two transcript variants encoding different isoforms

have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome
Protein Pathways: Huntington's disease

# **Product images:**



15% SDS-PAGE (3ug)