

Product datasheet for **TP304492L**

TGM1 (NM_000359) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase) (TGM1), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC204492 protein sequence

Clone or AA **Red**=Cloning site **Green**=Tags(s)

Sequence:

MMDGPRSDVGRWGGNPLQPPTTPSPEPEPEPDGRSRRGGGRSFWARCCGCCSCRNAADDDWGPEPSDSRG
RGSSSGTRRPGSRGSDSRPVSARGSGVNAAGDGTIREGMLVNGVDLLSSRSDQNRREHHTDEYEYDELI
VRRGQPFHMLLLSRTYESSDRITLELLIGNNPEVGKGTHTVIIPVKGKGGGWKAQVVKASGQNLNLRVH
TSPNAIIGKFQFTVRTQSDAGEFQLPFDPRNEIYILFNPWCPEDIVYVDHEDWRQEYVLNESGRIYYGTE
AQIGERTWNYGQFDHGVLDACLYILDRRGMPYGGRGDPVNVSRVISAMVNSLDDNGVLIGNWSDYSRGT
NPSAWGVSVEILLSYLRTGYSVPYGGCWWFAGVTTTLRCLGLATRTVTNFNSAHD TDSLMDIYFDEN
MKPLEHLNHDSVWNFHWND CWMKRPDLPSGFDGWQVVDATPQETSSGIFCCGPCSVESIKNGLVYMKYD
TPFIFAEVNSDKVYWQRQDDGSKIVYVEEKAIGTLIVTKAISSNMREDITYLYKHPEGSDAERKAVETA
AAHGSKPNVYANRGS AEDVAMQVEAQDAVMGQDLMVSVMLINHSSSRRTVKLHLYLSVTFYTGVS GTIFK
ETKKEVELAPGASDRVTMPVAYKEYRPHLVDQGAMLLNVSGHVKESGQVLAKQHTFRLRTPDLSLTL LGA
AVVGQECEVQIVFKNPLPVTLTNVVFRLEGSGLQRPKILNVGDIGGNETVTLRQSFVPVRPGRQLIASL
DSPQLSQVHGVIQVDVAPAPGDGGFFSDAGGDSHLGETIPMASRGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 89.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000350](#)

Locus ID: 7051

UniProt ID: [P22735](#)

RefSeq Size: 2777

Cytogenetics: 14q12

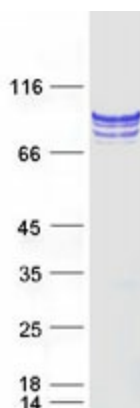
RefSeq ORF: 2451

Synonyms: ARCI1; ICR2; KTG; LI; LI1; TGASE; TGK

Summary: The protein encoded by this gene is a membrane protein that catalyzes the addition of an alkyl group from an alkylamine to a glutamine residue of a protein, forming an alkylglutamine in the protein. This protein alkylation leads to crosslinking of proteins and catenation of polyamines to proteins. This gene contains either one or two copies of a 22 nt repeat unit in its 3' UTR. Mutations in this gene have been associated with autosomal recessive lamellar ichthyosis (LI) and nonbullous congenital ichthyosiform erythroderma (NCIE). [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified TGM1 protein (Cat# [TP304492]). The protein was produced from HEK293T cells transfected with TGM1 cDNA clone (Cat# [RC204492]) using MegaTran 2.0 (Cat# [TT210002]).