

## Product datasheet for **TP317353M**

### Transglutaminase 2 (TGM2) (NM\_004613) Human Recombinant Protein

#### Product data:

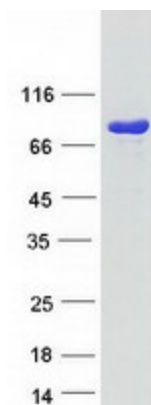
|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant protein of human transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM2), transcript variant 1, 100 µg   |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC217353 representing NM_004613<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)<br><br>MAEELVLERCDLELETNGRDHHTADLCREKLWVRGQPFWLTLHFEGRNYEASVDSLTFISWTGPAPSQE<br>AGTKARFPLRDAVEEGDWTATVVDQDCTLSLQLTTPANAPIGLYRLSLEASTGYQGSSFVLGHFILLFN<br>AWCPADAVYLDSEERQEYVLTQQGFIYQGSAKFIKNIPWNFGQFEDGILDICLILLDVNPKFLKNAGR<br>CSRSSPVYVGRVSGMVNCNDDQGVLLGRWDNNYGDGVSPMSWIGSVDILRRWKNHGCQRVKYGCWVF<br>AAVACTVLRCLGIPTRVVTNYNSAHDQNSNLLIEYFRNEFGEIQGDKSEMIWNFHCWVESWMTRPDLQPG<br>YEGWQALDPTPQEKSEGTCCGPVPVRAIKEGDLSTKYDAPFVFAEVNADVVDWIQDDGSHKINSRSL<br>IVGLKISTKSVGRDEREDITHYKYPEGSSEEREAFTANHLNKLAEKEETGMAMRIRVQSMNMGSDFD<br>VFAHITNNTAEEYVCRLLLCARTVSYNGILGPECGTKYLLNLNLEPFSEKSVPLCILEKYRDCLTESNL<br>IKVRALLVEPVINSYLLAERDLYLENPEIKIRILGEPKQKRKLVAEVSQNPVPALEGCTFTVEGAGLT<br>EEQKTVEIPDPVEAGEEVKVRMDLLPLHMGLHKLWNFESDKLKAVKGFNRNVIIGPA<br><br><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b> |
| Tag:                                  | C-Myc/DDK   |
| Predicted MW:                         | 77.1 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.  |
| 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.   |



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| <b>Stability:</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| <b>RefSeq:</b>           | <a href="#">NP_004604</a>  |
| <b>Locus ID:</b>         | 7052   |
| <b>UniProt ID:</b>       | <a href="#">P21980</a> , <a href="#">V9HWG3</a>  |
| <b>RefSeq Size:</b>      | 3937   |
| <b>Cytogenetics:</b>     | 20q11.23   |
| <b>RefSeq ORF:</b>       | 2061   |
| <b>Synonyms:</b>         | G(h); hTG2; TG(C); TGC; tTG  |
| <b>Summary:</b>          | 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] |
| <b>Protein Families:</b> | Druggable Genome   |
| <b>Protein Pathways:</b> | Huntington's disease   |

### Product images:



Coomassie blue staining of purified TGM2 protein (Cat# [TP317353]). The protein was produced from HEK293T cells transfected with TGM2 cDNA clone (Cat# [RC217353]) using MegaTran 2.0 (Cat# [TT210002]).