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Product datasheet for SC319444

Transglutaminase 2 (TGM2) (NM_198951) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transglutaminase 2 (TGM2) (NM_198951) Human Untagged Clone
Tag:	Tag Free
Symbol:	Transglutaminase 2
Synonyms:	G(h); hTG2; TG(C); TGC; tTG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for NM_198951.1
CTCCGCCTCGGCAGTGCCAGCCGCCAGTGGTCGCACTTGGAGGGTCTCGCCGCCAGTGGA
AGGAGCCACCGCCCCCGCCCGACCATGGCCGAGGAGCTGGTCTTAGAGAGGTGTGATCTG
GAGCTGGAGACCAATGGCCGAGACCACCACACGGCCGACCTGTGCCGGGAGAAGCTGGTG
GTGCGACGGGGCCAGCCCTTCTGGCTGACCCTGCACTTTGAGGGCCGCAACTACGAGGCC
AGTGTAGACAGTCTCACCTTCAGTGTCGTGACCGGCCCAGCCCCTAGCCAGGAGGCCGGG
ACCAAGGCCCGTTTTCCACTAAGAGATGCTGTGGAGGAGGGTGACTGGACAGCCACCGTG
GTGGACCAGCAAGACTGCACCCTCTCGCTGCAGCTCACCACCCCGGCCAACGCCCCCATC
GGCCTGTATCGCCTCAGCCTGGAGGCCTCCACTGGCTACCAGGGATCCAGCTTTGTGCTG
GGCCACTTCATTTTGCTCTTCAACGCCTGGTGCCCAGCGGATGCTGTGTACCTGGACTCG
GAAGAGGAGCGGCAGGAGTATGTCCTCACCCAGCAGGGCTTTATCTACCAGGGCTCGGCC
AAGTTCATCAAGAACATACCTTGGAATTTTGGGCAGTTTGAAGATGGGATCCTAGACATC
TGCCTGATCCTTCTAGATGTCAACCCCAAGTTCCTGAAGAACGCCGGCCGTGACTGCTCC
CGCCGCAGCAGCCCCGTCTACGTGGGCCGGGTGGTGAGTGGCATGGTCAACTGCAACGAT
GACCAGGGTGTGCTGCTGGGACGCTGGGACAACAACTACGGGGACGGCGTCAGCCCCATG
TCCTGGATCGGCAGCGTGGACATCCTGCGGCGCTGGAAGAACCACGGCTGCCAGCGCGTC
AAGTATGGCCAGTGCTGGGTCTTCGCCGCCGTGGCCTGCACAGTGCTGAGGTGCCTGGGC
ATCCCTACCCGCGTCGTGACCAACTACAACTCGGCCCATGACCAGAACAGCAACCTTCTC
ATCGAGTACTTCCGCAATGAGTTTGGGGAGATCCAGGGTGACAAGAGCGAGATGATCTGG
AACTTCCACTGCTGGGTGGAGTCGTGGATGACCAGGCCGGACCTGCAGCCGGGGTACGAG
GGCTGGCAGGCCCTGGACCCAACGCCCCAGGAGAAGAGCGAAGGGACGTACTGCTGTGGC
CCAGTTCCAGTTCGTGCCATCAAGGAGGGCGACCTGAGCACCAAGTACGATGCGCCCTTT
GTCTTTGCGGAGGTCAATGCCGACGTGGTAGACTGGATCCAGCAGGACGATGGGTCTGTG
CACAAATCCATCAACCGTTCCCTGATCGTTGGGCTGAAGATCAGCACTAAGAGCGTGGGC
CGAGACGAGCGGGAGGATATCACCCACACCTACAAATACCCAGAGGGGTCCTCAGAGGAG
AGGGAGGCCTTCACAAGGGCGAACCACCTGAACAAACTGGCCGAGAAGGAGGAGACAGGG
ATGGCCATGCGGATCCGTGTGGGCCAGAGCATGAACATGGGCAGTGACTTTGACGTCTTT
GCCCACATCACCAACAACACCGCTGAGGAGTACGTCTGCCGCCTCCTGCTCTGTGCCCGC
ACCGTCAGCTACAATGGGATCTTGGGGCCCGAGTGTGGCACCAAGTACCTGCTCAACCTC
AACCTGGAGCCTTTCTCTGGTAAAGCCCTGTGTTCCTGGAGCATTTGTTGACCGCCAACT
GACAACATGCTAGGTAGTGACCTAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_198951

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_198951.1, NP_945189.1
RefSeq Size:	1879 bp
RefSeq ORF:	1647 bp
Locus ID:	7052
UniProt ID:	P21980
Cytogenetics:	20q11.23
Protein Families:	Druggable Genome
Protein Pathways:	Huntington's disease
Gene 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] Transcript Variant: This variant (2) differs in the 3' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter and has a unique C-terminus compared to isoform a.