

Product datasheet for **RC220515**

Transglutaminase 3 (TGM3) (NM_003245) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transglutaminase 3 (TGM3) (NM_003245) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Transglutaminase 3
Synonyms:	TGE; UHS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC220515 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

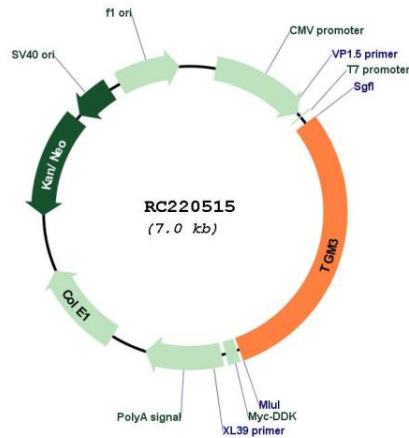
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GCC**CGGATCGCC**

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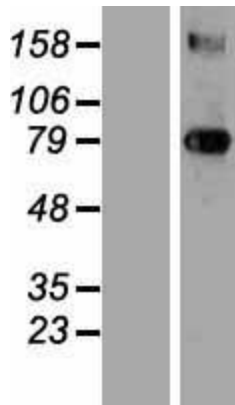
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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:	<ol style="list-style-type: none">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_003245.4
RefSeq Size:	2679 bp
RefSeq ORF:	2082 bp
Locus ID:	7053
UniProt ID:	Q08188
Cytogenetics:	20p13
Protein Families:	Druggable Genome
MW:	76.8 kDa
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 consists of two polypeptide chains activated from a single precursor protein by proteolysis. The encoded protein is involved the later stages of cell envelope formation in the epidermis and hair follicle. [provided by RefSeq, Jul 2008]

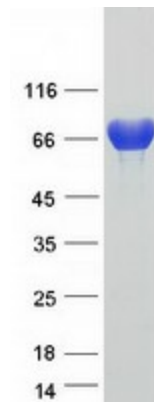
Product images:



Circular map for RC220515



Western blot validation of overexpression lysate (Cat# [LY418814]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220515 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TGM3 protein (Cat# [TP320515]). The protein was produced from HEK293T cells transfected with TGM3 cDNA clone (Cat# RC220515) using MegaTran 2.0 (Cat# [TT210002]).