Human TGM1 Gene cDNA clone plasmid

Sino Biological Inc.
Biological Solution Specialist

Catalog Number: **HG15846-G**

General Information

Gene :   transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase)

Official Symbol :   **TGM1**

Synonym :   LI, KTG, LI1, TGK, ICR2, ARCI1, TGASE

Source :   Human

cDNA Size: 2454bp

RefSeq :   NM_000359.2

Plasmid: pGEM-TGM1

Description

Lot :   Please refer to the label on the tube

Sequence Description :

Identical with the Gene Bank Ref. ID sequence.

Vector :

pGEM-T

Shipping carrier :

Each tube contains approximately 10 µg of lyophilized plasmid.

Storage :

The lyophilized plasmid can be stored at ambient temperature for three months.

Quality control :

The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.

Sequencing primer list :

M13-47 ：	5' GCCAGGGTTTTCCCAGTCACGAC 3'
RV-M ：	5' GAGCGGATAACAATTTCACACAGG 3'

Other M13 primers can also be used as sequencing primers.

Plasmid Resuspension protocol

1.Centrifuge at 5,000×g for 5 min.
2.Carefully open the tube and add 100 µl 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 to concentrate the liquid at the bottom. Speed is less than 5000×g.
5.Store the plasmid at -20 ℃.

The plasmid is ready for:

• Restriction enzyme digestion
• PCR amplification
• *E. coli* transformation
• DNA sequencing

E.coli strains for transformation (recommended but not limited)

Most commercially available competent cells are appropriate for the plasmid, e.g. TOP10, DH5α and TOP10F′.

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Vector Information

The pGEM-T vector is a high-efficiency TA cloning vector which contains multiple cloning sites as shown below. The pGEM-T vector is 3.0kb in size and contains the amplicin resistance gene for selection. The coding sequence was inserted by TA cloning.

Physical Map of pGEM-T :

pGEM-T
3000 bp

pGEM-T Vector

T7 Transcription Start

5'... TGTAA TACGA CTCAC TATAG GGCGA ATTGG GCCCG ACGTC GCATG CTCCC GGCCG

T7 Promoter — ApaI — AatII — SphI — BstZI

CCATG GCCGC GGGAT ATCAC TAGTG CGGCC GCCTG CAGGT CGACC ATATG

NcoI — SacII — SpeI — NotI — PstI — SalI — NdeI
BstZI

gccgc gggatT   atcac tagtg   (TA Cloning Site)
cggcg cccta   Ttagtg atcac

SP6 Transcription Start

GGAGA GCTCC CAACG CGTTG GATGC ATAGC TTGAG TATTC TATAG TGTCA CCTAA AT ...3'

SacI — BstXI — NsiI — SP6 Promoter