Mouse SOD1 Gene ORF cDNA clone in cloning vector

Catalog Number: **MG52544-G**

General Information

Gene : superoxide dismutase 1, soluble

Official Symbol : **SOD1**

Synonym : B430204E11Rik; Cu/Zn-SOD; CuZnSOD; Ipo-1; Ipo1; Sod-1; SODC

Source : Mouse

cDNA Size: 465bp

RefSeq : NM_011434.1

Plasmid: pGEM-mSOD1

Description

Lot : Please refer to the label on the tube

Sequence Description :

Identical with the Gene Bank Ref. ID sequence.

Vector :

pGEM-T

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.

Shipping carrier :

Each tube contains approximately 10 μg of lyophilized plasmid.

Storage :

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

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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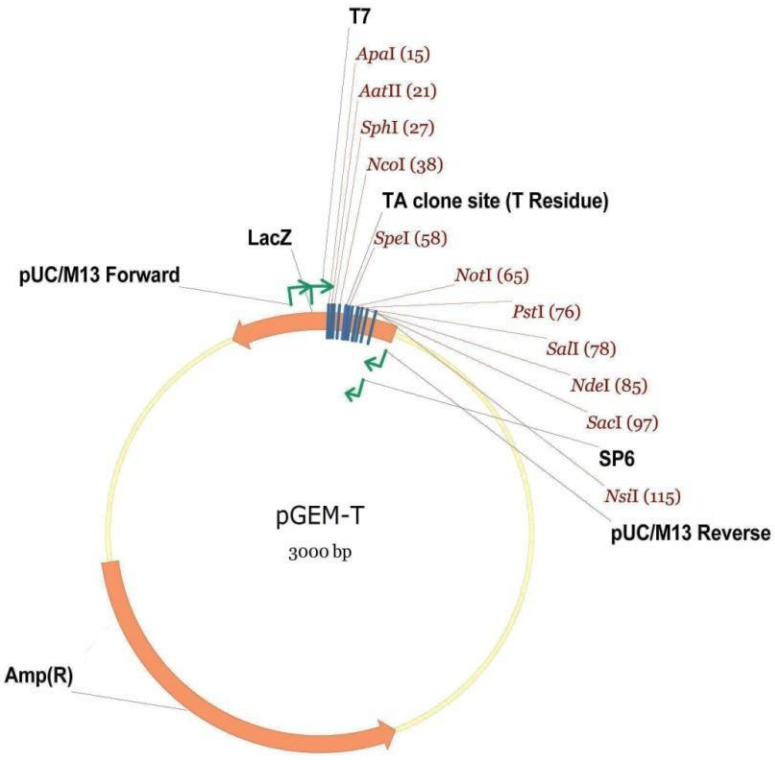
Sino Biological
Biological Solution Specialist

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 ampicillin resistance gene for selection. The coding sequence was inserted by TA cloning.

Notes: The direction of cDNA insertion into the TA-cloning vector is random, maybe forward or reverse. For insert orientation information, please feel free to contact us.

Physical Map of pGEM-T :



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
cggcg ccc ta

atcac tagtg
Ttagtg atcac

(TA Cloning Site)

SP6 Transcription Start

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

SacI | BstXI | NsiI

SP6 Promoter