



# RATREN

87106™

## Description

Detects:

Genome: rat

Gene symbol: REN

Type of nucleic acid: genomic

Restriction enzyme: EcoRI

Invariant bands (kb): 4.2, 2.2, 1.0

Number of alleles: 2

Type of polymorphism: site

Alleles:

Allele Freq. Size (kb) Strains

A2 6.5 Lewis

A1 5.2 Sprague-Dawley

**Organism:** *Rattus norvegicus*, rat

**Clone type:** Clone

**Host:** *Escherichia coli* HB101 (ATCC 33694)

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## Storage Conditions

**Product format:** Freeze-dried

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## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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## BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization’s policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

## Insert Information

**Insert size (kb):** 1.3999999999999999

**Type of DNA:** cDNA

**Insert source:** kidney, male

**Insert strain:** Sprague-Dawley

**Insert tissue:** kidney, male

**Insert information:**

DESCRIPTION OF INSERT COMPONENT:

Genomic copy number: unique

Cross references: DNA Seq. Acc.: J02941

Nucleotides 1-1432 of the insert correspond to nucleotides 184-1615 of J02941.

**Genome:** rat

**Gene name:** renin

**Gene product:** renin [REN]

**Gene symbol:** REN

**Alleles:** A1, A2

**Contains complete coding sequence:** Yes

**Insert end:** Modification: EcoRI linker

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## Vector Information

**Construct size (kb):** 4.400000095367432

**Intact vector size:** 3.000

**Vector name:** pGEM-4Z

**Type of vector:** plasmid

**Host range:** *Escherichia coli*

**Vector end:** BamHI; HindIII

**Cloning sites:** EcoRI; SacI; KpnI; Aval; SmaI; BamHI; XbaI; Sall; Accl; HincII; PstI; SphI; HindIII

**Enhancer:** none

**Insert detection:** lacZ'

**Markers:** ampR

**Polylinker sites:** EcoRI; SacI; KpnI; Aval; SmaI; BamHI; XbaI; Sall; Accl; HincII; PstI; SphI; HindIII

**Promoters:** lac; SP6; T7

**Replicon:** pMB1

**Terminator:** none

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## Growth Conditions

### Medium:

ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

**Temperature:** 37°C

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## Notes

Restriction digests of the clone give the following sizes (kb):

BamHI/HindIII—3.0, 1.4; PstI—3.4, 0.95; BamHI—4.3.

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Constructed by isolating a 1.4 kb EcoRI fragment from a partial digest of a clone in lambdagt10 and cloning the fragment into a pBluescript vector. A 1.4 kb BamHI/HindIII fragment was excised and cloned into pGEM-4Z.

- personal communication

The insert contains the following restriction sites (approximate kb from the 5' end): EcoRI--0.21, 0.46; PstI--0.93; KpnI--0.3, 1.0.

- Proc. Natl. Acad. Sci. USA 84: 5605-5609, 1987

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: RATREN (ATCC 87106)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Revision

This information on this document was last updated on 2025-09-12

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