



pRat alpha 2

87405™

Description

Detects:

Genome: rat

Tissue: kidney, brain, heart, adipose, muscle, stomach, and lung

Gene symbol: ATP1A2

Type of nucleic acid: mRNA

Invariant bands (kb): 3.4, 5.3

Organism: *Rattus norvegicus*, rat

Clone type: Clone

Host: *Escherichia coli* DH5alpha

Storage Conditions

Product format: Freeze-dried

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.

BSL 1

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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.

Insert Information

Insert size (kb): 0.38100000000000001

Type of DNA: cDNA

Insert source: brain

Insert strain: CD

Insert tissue: brain

Insert information:

DESCRIPTION OF INSERT COMPONENT:

Insert 5' end: Scal

Insert 3' end: NheI Modification: blunted

Cross references: DNA Seq. Acc.: M14512

Nucleotides 1-381 of the insert correspond to nucleotides 121-502 of M14512.

Genome: rat

Gene name: ATPase, Na⁺/K⁺ transporting, alpha 2 polypeptide

Gene product: ATPase, Na⁺/K⁺ transporting, alpha 2 (+) polypeptide [ATP1A2]

Gene symbol: ATP1A2

Contains complete coding sequence: No

Vector Information

Construct size (kb): 3.16700005531311

Intact vector size: 2.686

Vector name: pUC18

Type of vector: plasmid

Construction: pUC71K

Host range: *Escherichia coli*

Vector end: SmaI

Vector information:

Cross references: DNA Seq. Acc.: L08752

Cloning sites: HindIII; SphI; PstI; SalI; Accl; HincII; XbaI; BamHI; SmaI; KpnI; SacI; EcoRI

Insert detection: lacZ', <-

Markers: ampR

MCS: HindIII...EcoRI, ->

Polylinker sites: HindIII; SphI; PstI; SalI; Accl; HincII; XbaI; BamHI; SmaI; KpnI; SacI; EcoRI

Promoters: lac

Replicon: pMB1, <-

Growth Conditions

Medium:

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

Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI/PstI--2.7, 0.4; BglI--2.0, 1.2; PvuII--2.4, 0.7.

- ATCC staff

The insert contains the following restricti sites (approximate kb from the 5' end): SacI--0.06, 0.17; NcoI--0.09, 0.33.

- GenBank/EMBL/DDBJ

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRat alpha 2 (ATCC 87405)

References

References and other information relating to this material are available at www.atcc.org.

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