



pAQP4

87184™

Description

Detects:

Genome: rat

Tissue: brain, adult

Gene symbol: AQP4

Type of nucleic acid: mRNA

Invariant bands (kb): 5.5

Organism: *Rattus norvegicus*, rat

Clone type: Clone

Host: *Escherichia coli* HB101 (ATCC 33694)

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

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.

Insert Information

Insert size (kb): 1.6000000000000001

Type of DNA: cDNA

Insert source: brain

Insert tissue: brain

Insert information:

DESCRIPTION OF INSERT COMPONENT:

Cross references: DNA Seq. Acc.: U14007

Nucleotides 1-1588 of the insert correspond to nucleotides 7-1595 of U14007.

Genome: rat

Gene name: aquaporin 4

Gene product: aquaporin 4 [AQP4]

Gene symbol: AQP4

Contains complete coding sequence: No

Vector Information

Construct size (kb): 4.599999904632568

Intact vector size: 2.960

Vector name: pBluescript SK-

Type of vector: phagemid

Construction: pUC19

Host range: *Escherichia coli*

Vector end: EcoRI

Cloning sites: KpnI; ApaI; DraIII; XhoI; Sall; HincII; AclI; ClaI; HindIII; EcoRV; EcoRI; PstI;
SmaI; BamHI; SpeI; XbaI; EagI; NotI; SacII; BstXI; SacI

Insert detection: lacZ', <-

Markers: ampR

MCS: KpnI...SacI, ->

Polylinker sites: SacI; BstXI; SacII; NotI; EagI; XbaI; SpeI; BamHI; SmaI; PstI; EcoRI;
EcoRV; HindIII; (ClaI Bsp106I); (HincII AclI Sall); XhoI

Primer site: M13-20, ->; M13 reverse, <-

Promoters: T3; T7; lac

Replicon: f1, →; 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--2.9, 1.6;
HindIII--4.2, 0.3; SmaI--3.7, 0.85; KpnI--4.6; SstI--3.8, 0.8. Encodes a
mercury-resistant water channel expressed primarily in rat adult brain.

- ATCC staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the
following manner: pAQP4 (ATCC 87184)

References

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

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