# pAQP1 Xenopus expression vector [UTR-01749, WI-9113, pCHIPev/BSII KS-]

99538™

## Description

Detects:

Genome: Homo sapiens

Tissue: bone marrow

Gene symbol: AQP1

Type of nucleic acid: mRNA

Invariant bands (kb): 3.1

**Organism:** *Homo sapiens*, human

**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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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):** 1.1140000000000001
**Type of DNA:** cDNA
**Insert source:** bone marrow
**Insert tissue:** Bone marrow
**Insert information:**
DESCRIPTION OF INSERT COMPONENT:
Insert 5' end: HindIII
Insert 3' end: PstI
Cross references: DNA Seq. Acc.: M77829
Nucleotides 57-904 of the insert correspond to
nucleotides ~1-860 of M77829.
**Genome:** Homo sapiens
**Chromosome:** 7
7 p14; 7, 84.8799999 cR
**Target gene:** aquaporin 1 (channel-forming integral protein, 28 kD)
**Gene name:** aquaporin 1 (channel-forming integral protein, 28 kD)
**Gene product:** aquaporin 1 (channel-forming integral protein, 28 kD) [AQP1]
**Gene symbol:** AQP1; CHIP28
**Contains complete coding sequence:** Yes

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## Vector Information

**Construct size (kb):** 4.057000160217285
**Intact vector size:** 2.961
**Vector name:** pBluescript II KS-
**Type of vector:** phagemid
**Host range:** *Escherichia coli*
**Vector end:** HindIII; PstI
**Cloning sites:** BssHII; KpnI; ApaI; DraII; XhoI; HincII; AccI; SalI; ClaI; HindIII; EcoRI; PstI; SmaI; BamHI; XbaI; NotI; EagI; SacI
**Insert detection:** lacZ', <-, 816-938
**Markers:** ampR
**MCS:** SacI...KpnI, ->, 657-759
**Polylinker sites:** BssHII; KpnI; ApaI; DraII; XhoI; HincII; AccI; SalI; ClaI; HindIII; EcoRI; PstI; SmaI; BamHI; XbaI; NotI; EagI; SacI
**Primer site:** M13-20, ->; reverse, <-
**Promoters:** T7; T3
**Replicon:** f1, →, 3-459; pMB1, 1032-1972

## 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): BglI--1.5, 1.3, 1.1, 0.22; HindIII/PstI--2.8, 1.2; PvuII--2.4, 0.78, 0.6, 0.22.
- ATCC staff

Insert contains the following restriction sites (approximate kb from the 5' end): BglI--0.08, 0.27; PvuII--0.34, 0.53.
- GenBank/EMBL/DDBJ

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The AQP1 coding sequence is flanked by 56 bp 5' untranslated sequence and 210 bp 3' untranslated sequence from the Xenopus beta-globin gene.
- personal communication

Sense mRNA can be synthesized in vitro from the SmaI digested contruct using T3 RNA polymerase. Resulting mRNA can be injected into and expressed in Xenopus oocytes.
- Science 256: 385-387, 1992

## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pAQP1 Xenopus expression vector [UTR-01749, WI-9113, pCHIPev/BSII KS-] (ATCC 99538)

## References

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

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## Revision

This information on this document was last updated on 2024-10-25

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