

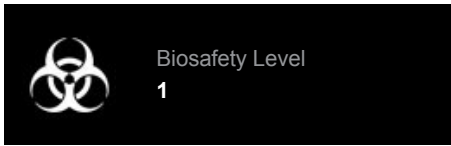


Product Sheet

# pAQP1 *Xenopus* expression vector [UTR-01749, WI-9113, pCHIPev/BSII KS-] (ATCC® 99538™)

## *Homo sapiens*

Please read this **FIRST**



### Intended Use

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

### Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Homo sapiens* (ATCC® 99538™)

### Shipping Information

Distributed: freeze-dried

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

### Description

Detects:

Genome: *Homo sapiens*

Tissue: bone marrow

Gene symbol: AQP1

Type of nucleic acid: mRNA

Invariant bands (kb): 3.1

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

### 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

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 construct using T3 RNA polymerase. Resulting mRNA can be injected into and expressed in *Xenopus* oocytes.

- Science 256: 385-387, 1992

### Distributed In

Distribution host: *Escherichia coli* DH5alpha

### Insert Information

DNA: cDNA

DESCRIPTION OF INSERT COMPONENT:

Genome: *Homo sapiens*

Gene symbol: AQP1

Other gene symbols: CHIP28

Gene name: aquaporin 1 (channel-forming integral protein, 28 kD)

Contains complete coding sequence?: Y

Chromosome: 7; Localization: 7 p14; 7, 84.8799999 cR

Tissue: bone marrow

Type of DNA: cDNA

Insert 5' end: HindIII

Insert 3' end: PstI

Insert size (kb): 1.114

Cross references: DNA Seq. Acc.: M77829

Nucleotides 57-904 of the insert correspond to nucleotides ~1-860 of M77829.

Insert lengths(kb): 1.113999962806702

Tissue: bone marrow

Gene product: aquaporin 1 (channel-forming integral protein, 28 kD) [AQP1]

Target Gene: aquaporin 1 (channel-forming integral protein, 28 kD)

### Vector Information

Construct size (kb): 4.057000160217285

DESCRIPTION OF VECTOR COMPONENT:

Name of vector: pBluescript II KS-

Intact vector size: 2.961

Type of vector: phagemid

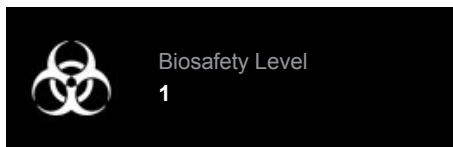


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Vector end: HindIII  
Vector end: PstI  
Cloning sites: BssHIII KpnI Apal Drall XhoI HincII Accl Sall ClaI HindIII  
EcoRI PstI SmaI BamHI XbaI NotI EagI SacI  
Polylinker sites: BssHIII KpnI Apal Drall XhoI HincII Accl Sall ClaI HindIII  
EcoRI PstI SmaI BamHI XbaI NotI EagI SacI  
Host range: *Escherichia coli*  
Features (with orientation and position when available):  
replicon: f1, -, 3-459  
primer site: M13-20, ->  
promoter for in vitro transcription: T7, ->  
insert detection: lacZ', <-, 816-938  
MCS: SacI...KpnI, -, 657-759  
promoter for in vitro transcription: T3, <--  
primer site: reverse, <--  
replicon: pMB1, 1032-1972  
marker(s): ampR, <-, 1975-2832  
Cross references:

### Propagation

### Growth Conditions

**Temperature:** 37.0°C

### Medium

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

### References

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

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
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