

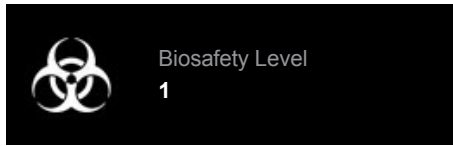


Product Sheet

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

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: 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

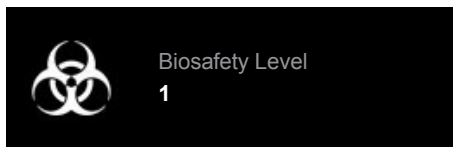


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Vector end: HindIII
Vector end: PstI
Cloning sites: BssHIII KpnI Apal Drall XhoI HincII Accl Sall ClaI HindIII
EcoRI PstI SmaI BamHI XbaI NotI EagI SacI
Polylinker sites: BssHIII KpnI Apal Drall XhoI HincII Accl Sall ClaI HindIII
EcoRI PstI SmaI BamHI 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.

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.
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