

PHUMNHE1

79058[™]

Description

Organism: Homo sapiens, human

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.

BSL₁

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





79058

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): 4

Type of DNA: cDNA

Insert source: kidney cortex **Insert tissue:** kidney cortex

Insert information:

DESCRIPTION OF INSERT COMPONENT:

isoform 1 (antiporter, Na+/H+, amiloride sensitive)

Insert 5' end: HindIII

Insert 3' end: Modification: blunt ended Cross references: DNA Seq. Acc.: M81768

Genome: Homo sapiens

Chromosome: 1 1 p36.1-p35

Gene name: solute carrier family 9 (sodium/hydrogen exchanger),

Gene product: NA(+)/H(+) antiporter 1(Na+/H+ antiporter, Na+/H+ antiporter

protein) [APNH]

Gene symbol: SLC9A1; APNH; NHE1

Contains complete coding sequence: Unknown

Vector Information

Construct size (kb): 7.0 Intact vector size: 2.961

Vector name: pBluescript II KS-

Type of vector: phagemid
Host range: Escherichia coli
Vector end: HindIII; Smal

Cloning sites: BssHII; KpnI; Apal; Drall; XhoI; HincII; AccI; SalI; ClaI; HindIII; EcoRI; PstI;

Smal; BamHl; Xbal; Notl; Eagl; Sacl Insert detection: lacZ', <-, 816-938



PHUMNHE1

79058

Markers: ampR

MCS: Sacl...Kpnl, ->, 657-759

Polylinker sites: BssHII; KpnI; ApaI; DraII; XhoI; HincII; AccI; SaII; ClaI; HindIII; EcoRI; PstI;

Smal; BamHl; Xbal; Notl; Eagl; Sacl **Primer site:** M13-20, ->; reverse, <-

Promoters: T3; T7

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): HindIII/Xbal--4.2, 3.1; BamHI--3.4, 2.0, 1.5, 0.41; PstI--7.2; SacI--7.2;

Pvull--2.7, 2.45, 1.10, 0.56, 0.28.

- ATCC staff

The Smal site was lost during cloning, and the vector Sacl site was deleted.

- personal communication

Constructed from a 520 bp HindIII/PstI PCR product and the large PstI/EcoRI fragment from HK-3.5.

- Am. J. Physiol. 262: C1069-C1076, 1992

The insert contains the following restriction sites (approximate kb from the 5' end): BamHI--0.38, 2.3, 3.7; PstI--0.52; SacI--1.1; PvuII--2.1, 2.6, 2.9, 3.9.

- Am. J. Physiol. 262: C1069-C1076, 1992

pHUMNHE1

More information may be available from ATCC (http://www.atcc.org or 703-365-2620).

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pHUMNHE1 (ATCC 79058)

References

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

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Revision





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Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor

