



Product Sheet

# cosmid51.22 (ATCC® 79998™)

## *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® 79998™)

### 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

Designation: cosmid51.22

### Notes

Restriction digests of the clone give the following sizes (kb): BamHI--12.5, 10.5, 5.3, 5.0, 3.8 (doublet), 3.6, 0.8; BglII--15.5 (doublet), 12.0; EcoRI--20.0, 12.0, 8.8, 2.1; HindIII--14.5, 12.0, 7.1, 3.75, 3.6, 2.1; SstI--13.5, 9.4, 5.6, 5.3, 3.4, 1.75, 1.35, 1.05, 0.86. IMPORTANT: To prevent amplification of a rearranged and/or deleted cosmid, we recommend streaking on LB + amp plates at 30C and picking small colonies for liquid culture.  
- ATCC staff

Extends from exon 1 into exon 24, from the 5' untranslated region into the 3' untranslated region.  
- Hum. Mol. Genet. 1: 521-527, 1992

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

### Distributed In

Distribution host: *Escherichia coli* HB101 (ATCC 33694)

### Insert Information

DNA: genomic  
DESCRIPTION OF INSERT COMPONENT:  
Genome: *Homo sapiens*  
Gene symbol: SCN4A  
Gene name: sodium channel, voltage-gated, type IV, alpha polypeptide  
Contains complete coding sequence?: Y  
Chromosome: 17; Localization: 17 q23.1-q25.3  
Tissue: lymphoblast  
Type of DNA: genomic  
Insert end: BamHI  
Insert end: BamHI  
Insert size (kb): 37.0  
Cross references: DNA Seq. Acc.: L01962  
DNA Seq. Acc.: L01963  
DNA Seq. Acc.: L01964  
DNA Seq. Acc.: L01965  
DNA Seq. Acc.: L01966  
DNA Seq. Acc.: L01967  
DNA Seq. Acc.: L01968  
DNA Seq. Acc.: L01969  
DNA Seq. Acc.: L01970  
DNA Seq. Acc.: L01971  
DNA Seq. Acc.: L01972  
DNA Seq. Acc.: L01973  
DNA Seq. Acc.: L01974  
DNA Seq. Acc.: L01975  
DNA Seq. Acc.: L01976  
DNA Seq. Acc.: L01977  
DNA Seq. Acc.: L01978  
DNA Seq. Acc.: L01979  
DNA Seq. Acc.: L01980  
DNA Seq. Acc.: L01981  
DNA Seq. Acc.: L01982  
DNA Seq. Acc.: L01983  
Insert lengths(kb): 37.0  
Tissue: lymphoblast  
Gene product: sodium channel, voltage-gated, type IV, alpha polypeptide [SCN4A]



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## Vector Information

Construct size (kb): 45.0  
DESCRIPTION OF VECTOR COMPONENT:  
Name of vector: pWE15  
Intact vector size: 8.200  
Type of vector: cosmid  
Vector end: BamHI  
Vector end: BamHI  
Cloning sites: BamHI  
Polylinker sites: EcoRI NotI BamHI NotI EcoRI  
Host range: vertebrate cells; *Escherichia coli*  
Features (with orientation and position when available):  
marker(s): ampR, kanR, G418R  
promoter: T3, T7  
replicon: pMB1  
Cross references: DNA Seq. Acc.: X65279

## Propagation

**Growth Conditions**  
**Temperature:** 30.0°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.

## ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

## Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

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