# pN0.9

## 95678™

## Description

Detects:

Genome: Homo sapiens

Gene symbol: SNRPN

Type of nucleic acid: genomic

Restriction enzyme: XbaI/NotI

Number of alleles: 2

Type of polymorphism: site

Alleles:

Allele Freq. Size (kb) Strains

4.2 XbaI fragment with 3 internal methylated NotI sites

0.9 NotI subfragment resulting from absence of methylation at 3 NotI sites

**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.

## BSL 1

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):** 0.90000000000000002
**Type of DNA:** genomic
**Insert information:**
DESCRIPTION OF INSERT COMPONENT:
Cross references: DNA Seq. Acc.: L32702
Nucleotides 1-196 of the insert correspond to
nucleotides 216-411 of L32702.
**Genome:** Homo sapiens
**Chromosome:** 15
15 q11-q12
**Target gene:** Prader-Willi syndrome chromosome region, small nuclear ribonucleoprotein polypeptide N
**Gene name:** small nuclear ribonucleoprotein polypeptide N
**Gene product:** small nuclear ribonucleoprotein polypeptide N( small nuclear ribonucleoprotein SM-D, small nuclear ribonucleoprotein polypeptide Sm-D) [SNRPN]
**Gene symbol:** SNRPN
**Contains complete coding sequence:** No

**Insert end:** NotI

## Vector Information

**Construct size (kb):** 3.900000095367432
**Intact vector size:** 2.961
**Vector name:** pBluescript II SK-
**Type of vector:** phagemid
**Host range:** *Escherichia coli*
**Vector end:** NotI
**Cloning sites:** BssHII; KpnI; ApaI; DraII; XhoI; HincII; AccI; SalI; ClaI; HindIII; EcoRI; PstI; SmaI; BamHI; XbaI; NotI; EagI; SacI
**Insert detection:** lacZ'
**Markers:** ampR
**Polylinker sites:** BssHII; KpnI; ApaI; DraII; XhoI; HincII; AccI; SalI; ClaI; HindIII; EcoRI; PstI; SmaI; BamHI; XbaI; NotI; EagI; SacI
**Replicon:** pMB1; f1

## 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): BamHI--4.0; EcoRI--3.6, 0.33; NotI--2.9, 0.88; PvuII--2.6, 1.0 0.33; XhoI--4.0.
- ATCC staff

Insert contains a deletion breakpoint found in some cases of familial Prader-Willi syndrome (PWS).
- Nat. Genet. 8: 52-58, 1994

The insert contains most of exon alpha (nt 1-66), also corresponding to nt 10-75 of GenBank accession J04615, and a portion of the following intron.
- Nat. Genet. 8: 52-58, 1994

The 0.9 kb NotI fragment is derived from a 4.2 kb XbaI genomic DNA fragment which shows differential methylation at several rare restriction sites in normal maternal and paternal chromosomes.
- Nat. Genet. 8: 52-58, 1994

Insert can be used to probe genomic DNA digested with NotI/XbaI to detect abnormalities diagnostic for Prader-Willi syndrome and Angelman syndrome (AS).
- Nat. Genet. 8: 52-58, 1994

The probe detects a 4.2 kb fragment for normal maternal chromosomes, consistent with methylation of three NotI sites. An 0.9 kb fragment is detected for normal paternal chromosomes, consistent with the absence of methylation at these NotI sites.
- Nat. Genet. 8: 52-58, 1994

Normal individuals will show fragments of both sizes. Absence of the 0.9 kb band is indicative of PWS. Absence of the 4.2 kb band is indicative of AS.
- Nat. Genet. 8: 52-58, 1994

Insert contains the following restriction sites (approximate kb from the 5' end): EcoRI--0.17, 0.63; PuvII--0.07.
- Nat. Genet. 8: 52-58, 1994

## Material Citation

If use of this material results in a scientific publication, please cite the material in the

following manner: pN0.9 (ATCC 95678)

## References

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

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## Revision

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