



pPW71B [PW71B]

99413™

Description

Detects:

Genome: Homo sapiens

Gene symbol: D15S63

Type of nucleic acid: dsDNA

Restriction enzyme: HindIII+HpaII

Number of alleles: 2

Type of polymorphism: parental methylation

Alleles:

Allele Freq. Size (kb) Strains

4.7 paternal chromosomes

6.6 maternal chromosomes

Organism: *Homo sapiens*, human

Clone type: Clone

Shipping information: Rehydrate with TE

Storage Conditions

Product format: 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): 0.3649999999999999

Type of DNA: genomic

Genome: Homo sapiens

Chromosome: 15

15 q11-q12

Target gene: DNA Segment, single copy probes

Gene name: DNA Segment, single copy probes

Gene product: DNA Segment, single copy probes [D15S63]

Gene symbol: D15S63

Contains complete coding sequence: No

Insert end: HaeIII

Vector Information

Construct size (kb): 3.049999952316284

Intact vector size: 2.686

Vector name: pUC19

Type of vector: plasmid

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Product Sheet

Construction: pUC71K

Host range: *Escherichia coli*

Vector end: Smal

Vector information:

Cross references: DNA Seq. Acc.: X02514

Cloning sites: EcoRI; SacI; KpnI; Smal; BamHI; XbaI; HincII; Accl; Sall; PstI; SphI; HindIII

Insert detection: lacZ', <-

Markers: ampR

MCS: EcoRI...HindIII, ->

Polylinker sites: EcoRI; SacI; KpnI; Smal; BamHI; XbaI; HincII; Accl; Sall; PstI; SphI; HindIII

Replicon: pMB1, <-

Notes

Restriction digests of the clone give the following sizes (kb):

EcoRI/HindIII--2.8, 0.44; PstI--3.2, Pvull--2.5, 0.76; SacI--3.2; XbaI--3.2.

- ATCC staff

Insert detects parent-of-origin specific DNA methylation patterns in the Prader-Willi syndrome/Angelman syndrome chromosomal region (15 q11-q13). An imprinted HpaI and CfoI site in this region results in the maternal and paternal pattern.

- Hum. Mol. Genet. 2: 1995-1999, 1993

Patients with Prader-Willi syndrome typically lack the paternal bands. Lack of the maternal bands is indicative of Angelman syndrome. Because of the small probe size, low-stringent post-hybridization washes should be applied.

- Hum. Mol. Genet. 2: 1995-1999, 1993

Material Citation

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

following manner: pPW71B [PW71B] (ATCC 99413)

References

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

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