



Y-190 [Y190]

61166™

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.

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): 3.5

Type of DNA: genomic

Insert source: 49,XXXXY cell line

Insert tissue: 49,XXXXY cell line

Insert information:

Genomic copy number: repetitive

Type of nucleic acid: genomic

Restriction enzyme: XbaI

Size range (kb): 550-700

Type of polymorphism: VNTR

Genome: *Homo sapiens*

Chromosome: Y

Y p

Gene name: DNA Segment, repetitive

Gene symbol: DYZ5

Contains complete coding sequence: Unknown

Insert end: HindIII

Vector Information

Construct size (kb): 7.90

Intact vector size: 4.363

Vector name: pBR322

Type of vector: plasmid

Construction: pBR313

Vector end: HindIII

Vector information: Cross references: DNA Seq. Acc.: J01749

Cloning sites: EcoRI; ClaI; HindIII; EcoRV; BamHI; SphI; SalI; XmaIII; NruI; BspMI; BsmI; StyI; Aval; Ball; BspMII; PvuII; Tth111I; NdeI; AflIII; PpaI; PstI; PvuI; Scal; SspI; AatII

Markers: ampR; tetR

Replicon: pMB1

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--4.4, 3.5; EcoRI--6.1, 1.8; Aval--4.7, 3.2; BamHI--8.0; PvuII--8.0.

- ATCC staff

The sequences detected by Y-190 are present in numerous XX males. This probe detects 2 blocks of repeats on Yp. The hypervariable major block is composed of tandem 20.3 kb repeats with alleles ranging from about 540 to 800 kb (XbaI). The minor block is not variable and is about 60 kb.

- GDB

This probe is useful for detection of Y-derived marker chromosomes and mosaicism.

- Hum. Genet. 75: 109-113, 1987

This probe hybridizes to Y-specific HindIII fragments of about 4 and 5 kb (strong) and 9 kb (weak) in the orangutan and 4 kb and 9 kb (weak) in the rhesus monkey.

- Development 101: 51-58, 1987 (supplement)

Detects a Y-specific 3.5 kb HindIII fragment that has a copy number of about 100 in normal human males. Also detects less repeated HindIII fragments ranging from 1.5 to 5.7 kb.

- Nucleic Acids Res. 14: 6489-6505, 1986

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Y-190 [Y190] (ATCC 61166)

References

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

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Product Sheet

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