A new polymorphic probe on chromosome 3p:λLIB17-58(D3S598)

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Source/Description: λLIB17-58(D3S598) is a 5.5 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: RsaI digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 1.5 kb (R1) and 1.2 kb (R2).

Frequency: Estimated from 30 unrelated Caucasians.

R1:0.27

R2:0.73

Frequency of heterozygosity: 0.39

Not Polymorphic For: BamHI, BglII, DraI, EcoRI, HindIII, HinfI, MspI, PvuII and TaqI.

Chromosomal Localization: Using a somatic cell hybrid panel (2) which was based on linkage groups anchored to physically localized markers, the probe was assigned to the short arm of chromosome 3 between 3p21–3pter.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in a two generation von Hippel-Lindau disease (VHL) family.

Probe Availability: Available for collaboration.

References: 1)American Type Culture Collection No. 57748, National Lab ID Code LA03NS02. 2)Lerman,M., Latif,F., Glen,G. *et al.*: Isolation and regional localization of a large collection (2,000) of single copy DNA fragments of human chromosome 3 for mapping and cloning tumor suppressor genes. *Human Genetics* (In press, 1991).

A new polymorphic probe on chromosome 3p:λLIB46-35'(D3S636)

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Source/Description: λLIB46-35'(D3S636) is a 2.6 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: BglII digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 3.5 kb (B1) and 3.0 kb (B2).

Frequency: Estimated from 30 unrelated Caucasians.

B1:0.68

B2:0.32

Frequency of heterozygosity: 0.44

Not Polymorphic For: BamHI, DraI, EcoRI, HindIII, HinfI, MspI, PvuII, RsaI and TaqI.

Chromosomal Localization: Using a somatic cell hybrid panel (2) which was based on linkage groups anchored to physically localized markers, the probe was assigned to the short arm of chromosome 3 between 3p21–3pter.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in a two generation von Hippel-Lindau disease (VHL) family.

Probe Availability: Available for collaboration.

References: 1)American Type Culture Collection No. 57748, National Lab ID Code LA03NS02. 2)Lerman,M., Latif,F., Glen,G. *et al.*: Isolation and regional localization of a large collection (2,000) of single copy DNA fragments of human chromosome 3 for mapping and cloning tumor suppressor genes. *Human Genetics* (In press, 1991).

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