A new polymorphic probe on chromosome 3p:λLIB25-55(D3S602)

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Source/Description: λLIB25-55(D3S602) is a 2.4 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: MspI digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 9.0 kb (M1) and 6.0 kb (M2).

Frequency: Estimated from 30 unrelated Caucasians.
M1:0.33
M2:0.67

Frequency of heterozygosity: 0.44

Not Polymorphic For: BamHI, BglII, DraI, EcoRI, HindIII, HinfI, 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 3p24–3p26.

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. 57717, National Lab ID Code LA03NS01. 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:λLIB41-10(D3S618)

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Source/Description: λLIB41-10(D3S618) is a 4.0 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: HindIII digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 2.3 kb (H1) and 1.9 kb (H2).

Frequency: Estimated from 30 unrelated Caucasians.
H1:0.46
H2:0.54

Frequency of heterozygosity: 0.50

Not Polymorphic For: BamHI, BglII, DraI, EcoRI, 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 3p24–3p26.

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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