A new polymorphic probe on chromosome 3p:λLIB46-95(D3S620)

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Source/Description: λLIB46-95(D3S620) is a 1.4 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: TaqI digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 3.6 kb (T1) and 3.4 kb (T2).

Frequency: Estimated from 30 unrelated Caucasians.

T1:0.42

T2:0.58

Frequency of heterozygosity: 0.49

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

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).

A new polymorphic probe on chromosome 3p:λLIB30-62'(D3S606)

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Source/Description: λLIB30-62'(D3S606) is a 2.3 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: EcoRI digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 7.0 kb (E1) and 3.0 kb (E2).

Frequency: Estimated from 30 unrelated Caucasians.

E1:0.54

E2:0.46

Frequency of heterozygosity: 0.50

Not Polymorphic For: BamHI, BglII, DraI, 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 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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