A new polymorphic probe on chromosome 3p: λ LIB13-67 (D3S591)

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Source/Description: λ LIB13-67 is a 4.3 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: 20.0 kb (A1) and 10.0 kb (A2).

Frequency: Estimated from 120 unrelated Caucasians

A1:0.25

A2:0.75

Frequency of Heterozygosity: 0.38.

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 3p22-p25.

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

Probe Availability: Available for collaboration.

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References: 1) American Type Culture Collection No. 57717, National Lab ID Code LA03NS01. 2) Lerman,M., Latif,F., Glenn,G. *et al.* (1991) Isolation and regional localization of a large collection (2,000) of single copy DNA fragments on human chromosome 3 for mapping and cloning tumor genes. *Human Genetics* **86**, 567-577.

A new polymorphic probe on chromosome 3p: λ LIB37-96' (D3S1192)

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Source/Description: λ LIB37-96' is a 2.1 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: 9.5 kb (A1) and 5.5 kb (A2).

Frequency: Estimated from 120 unrelated Caucasians.

A1: 0.39

A2: 0.61

Frequency of Heterozygosity: 0.48.

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 3P14-p21.

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

Probe Availability: Available for collaboration.

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References: 1) American Type Culture Collection No. 57717, National Lab ID Code LA03NS01. 2) Lerman,M., Latif,F., Glen,G. *et al.* (1991) Isolation and regional localization of a large collection (2000) of single copy DNA fragments on human chromosome 3 for mapping and cloning tumor suppressor genes. *Human Genetics* **86**, 567-577.

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