A new polymorphic probe on chromosome 3p: λ LIB27-98'' (D3S1096)

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Source/Description: λ LIB27-98'' is a 3.0 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: 3.7 kb (A1) and 2.9 kb (A2).

Frequency: Estimated from 120 unrelated Caucasians
A1:0.4
A2:0.6

Frequency of Heterozygosity: 0.48.

Not Polymorphic For: BamHI, BglIII, 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 3p21 and 3pter.

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 LIB45-86 (D3S633)

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Source/Description: λ LIB45-86 is a 1.0 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: 6.0 kb (A1) and 4.3 kb (A2).

Frequency: Estimated from 120 unrelated Caucasians
A1:0.36
A2:0.64

Frequency of Heterozygosity: 0.46

Not Polymorphic For: BamHI, BglIII, 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 3p21 and 3pter.

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

Probe Availability: Available for collaboration.

Acknowledgements: This project has been funded at least in part with Federal funds from the Department of Health and Human Services under contract number N01-CO-74102.

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