A new polymorphic probe on chromosome 3p: λ LIB38-96 (D3S191)

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Source/Description: λ LIB38-96 is a 4.0 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: 6.8 kb (M1) and 4.7 kb (M2). No constant bands were present.

Frequency: Estimated from 29 unrelated Caucasians.

M1 : 0.28

M2 : 0.72

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 and 3p25.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in one three-generation and two two-generation von Hippel-Lindau disease (vHL) families.

Probe Availability: Available for collaboration.

Other Comments: The probe sequences are highly conserved between human and rodent species.

References: 1. American Type Culture Collection No. 57748, National Lab ID Code LA03NS02. 2. Brauch,H. *et al.*, A somatic cell hybrid panel for physical assignment of 3p probes. Abstract, HGM10. (1989) *Cytogenet. Cell Genet.* **51**(1-4), 968.

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A new polymorphic probe on chromosome 3p: λ LIB28-56'' (D3S207)

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Source/Description: λ LIB28-56'' is an 0.9 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: 2.05 kb (M1) and 1.75 kb (M2). No constant bands were present.

Frequency: Estimated from 30 unrelated Caucasians.

M1 : 0.43

M2 : 0.57

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 3p21 and 3pter.

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

Probe Availability: Available for collaboration.

Other Comments: The probe sequences are highly conserved between human and rodent species.

References: 1. American Type Culture Collection No. 57748, National Lab ID Code LA03NS02. 2. Brauch,H. *et al.*, A somatic cell hybrid panel for physical assignment of 3p probes. Abstract, HGM10. (1989) *Cytogenet. Cell Genet.* **51**(1-4), 968.

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