A new polymorphic probe on chromosome 3p: λ LIB37 – 97'' (D3S724)

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Source/Description: λ LIB37–97'' is a 1.0 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: Both MspI and RsaI digestions of genomic DNA, and hybridization with the probe, detect two-allele polymorphisms: 6.6 kb (A1), 5.8 kb (A2), 2.6 kb (B1) and 2.3 kb (B2).

Frequency: Estimated from 30 unrelated Caucasians.

A1: 0.46 B1: 0.46

A2: 0.54 B2: 0.54

Frequency of Heterozygosity: 0.50.

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

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.

References: 1) American Type Culture Collection No. 57748, National Lab ID Code LA03NS02. 2) Lerman, M., Latif, F., Glenn, G. *et al.*: Isolation and regional localization of a large collection (2,000) of single copy DNA fragments on human chromosome 3 for mapping and cloning tumor suppressor genes. *Human Genetics* (In press, 1990).

A new polymorphic probe on chromosome 3p: λ LIB38 – 85 (D3S625)

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Source/Description: λ LIB38–85 is a 1.8 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: Both BamHI and TaqI digestions of genomic DNA, and hybridization with the probe, detect two-allele polymorphisms: 7.8 kb (A1), 5.9 kb (A2), 9.6 kb (B1) and 8.9 kb (B2).

Frequency: Estimated from 30 unrelated Caucasians.

A1: 0.68 B1: 0.32

A2: 0.32 B2: 0.68

Frequency of Heterozygosity: 0.44.

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

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 3pcen–3p14.

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., Glenn, G. *et al.*: Isolation and regional localization of a large collection (2,000) of single copy DNA fragments on human chromosome 3 for mapping and cloning tumor suppressor genes. *Human Genetics* (In press, 1990).

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