A new polymorphic probe on chromosome 3p: λ LIB09 – 75' (D3S584)

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Source/Description: λ LIB09–75' is a 3.8 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: TaqI digestion of genomic DNA and hybridization with the probe detect a two-allele polymorphism: 3.8 kb (A1) and 3.5 kb (A2).

Frequency: Estimated from 30 unrelated Caucasians.

A1: 0.57

A2: 0.43.

Frequency of Heterozygosity: 0.49.

Not Polymorphic For: BamHI, DraI, MspI, RsaI, BglII, HindIII, EcoRI, 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 3p22–3p26.

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 No. 57717, National Lab ID Code LA03NS01. 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 LIB19 – 63' (D3S601)

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Source/Description: λ LIB19–63' is a 4.3 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: TaqI digestion of genomic DNA and hybridization with the probe detect a two-allele polymorphism: 4.3 kb (A1) and 3.9 kb (A2).

Frequency: Estimated from 30 unrelated Caucasians.

A1: 0.54

A2: 0.46

Frequency of Heterozygosity: 0.5

Not Polymorphic For: BamHI, DraI, MspI, RsaI, BglII, HindIII, EcoRI, 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 3p21–3pter.

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. 57717, National Lab ID Code LA03NS01. 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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