A new polymorphic probe on chromosome 3p:λLIB28-62(D3S736)

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Source/Description: λLIB28-62(D3S736) is a 6.6 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: 9.6 kb (M1) and 4.3 kb (M2).

Frequency: Estimated from 30 unrelated Caucasians.

M1:0.21

M2:0.79

Frequency of heterozygosity: 0.33

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 3p21–3pter.

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., Glen,G. *et al.*: Isolation and regional localization of a large collection (2,000) of single copy DNA fragments of human chromosome 3 for mapping and cloning tumor suppressor genes. *Human Genetics* (In press, 1991).

A new polymorphic probe on chromosome 3p:λLIB29-48(D3S624)

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Source/Description: λLIB29-48(D3S624) is a 1.8 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: 6.6 kb (M1) and 5.2 kb (M2).

Frequency: Estimated from 30 unrelated Caucasians.

M1:0.50

M2:0.50

Frequency of heterozygosity: 0.50

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 3p14–3p21.

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., Glen,G. *et al.*: Isolation and regional localization of a large collection (2,000) of single copy DNA fragments of human chromosome 3 for mapping and cloning tumor suppressor genes. *Human Genetics* (In press, 1991).

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