A new polymorphic probe on chromosome 3p: λ LIB31 – 38 (D3S726)

F.Latif, G.M.Glenn, H.Brauch, J.Delisio¹, K.Hampsch¹, M.L.Orcutt, B.Zbar and M.I.Lerman*

Laboratory of Immunobiology, National Cancer Institute-Frederick Cancer Research and Development Center, Frederick, MD 21701, and ¹Program Resources Inc., Frederick Cancer Research and Development Center, Frederick, MD 21701, USA

Source/Description: λ LIB31–38 is a 1.4 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: MspI digestion of genomic DNA and hybridization with the probe detect a two-allele polymorphism: 3.3 kb (A1) and 3.0 kb (A2).

Frequency: Estimated from 30 unrelated Caucasians.

A1: 0.31

A2: 0.69.

Frequency of Heterozygosity: 0.42.

Not Polymorphic For: BamHI, DraI, EcoRI, RsaI, BglII, HindIII, TaqI, 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.

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) 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 LIB24 – 12' (D3S727)

J.Delisio¹, F.Latif, G.M.Glenn, H.Brauch, K.Hampsch¹, M.L.Orcutt, B.Zbar and M.I.Lerman*

Laboratory of Immunobiology, National Cancer Institute-Frederick Cancer Research and Development Center, Frederick, MD 21701, and ¹Program Resources Inc., Frederick Cancer Research and Development Center, Frederick, MD 21701, USA

Source/Description: λ LIB24–12' is a 0.9 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: Both HinfI and EcoRI digestions of genomic DNA, and hybridization with the probe, detect two-allele polymorphisms: 2.0 kb (H1), 1.7 kb (H2), 2.3 kb (E1) and 0.9 kb (E2).

Frequency: Estimated from 30 unrelated Caucasians:

H1: 0.83 E1: 0.17

H2: 0.17 E2: 0.83

Frequency of Heterozygosity: HinfI 0.28, EcoRI 0.28.

Not Polymorphic for: BamHI, DraI, MspI, RsaI, BglII, HindIII, TaqI 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 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).

* To whom correspondence should be addressed

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