A new polymorphic probe on chromosome 3p: λ LIB4-59 (D3S575)

J.Delisio¹, F.Latif, G.M.Glenn, L.Geil¹, B.Zbar and M.I.Lerman*

Laboratory of Immunology, National Cancer Institute, and ¹Biological Carcinogenesis and Development Program, Program Resources Inc., DynCorp, Frederick Cancer Research and Development Center, Frederick, MD 21701, USA

Source/Description: λ LIB4-59 is a 1.9 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: Both MspI and PvuII digestions of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 13.0 kb (A1), 10.5 kb (A2), 10.5 kb (B1) and 6.6 kb (B2).

Frequency: Estimated from 120 unrelated Caucasians

A1:0.36	B1:0.75
A2:0.64	B2:0.25

Frequency of Heterozygosity: 0.46 and 0.38 for MspI (A) and PvuII (B), respectively.

Not Polymorphic For: BamHI, BglII, DraI, EcoRI, HindIII, HinfI, 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-p25.

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

Probe Availability: Available for collaboration.

Acknowledgements: This project has been funded at least in part with Federal funds from the Department of Health and Human Services under contract number N01-CO-74102.

References: 1) American Type Culture Collection No. 57717, National Lab ID Code LA03NS01. 2) Lerman, M., Latif, F., Glenn, G. *et al.* (1991) 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* **86**, 567-577.

A new polymorphic probe on chromosome 3p: λ LIB50-50' (D3S1099)

J.Delisio¹, F.Latif, G.M.Glenn, L.Geil¹, B.Zbar and M.I.Lerman*

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

Source/Description: λ LIB50-50' is a 2.5 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: BamHI digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 13.0 kb (A1) and 11.0 kb (A2).

Frequency: Estimated from 120 unrelated Caucasians.

A1: 0.83
A2: 0.17

Frequency of Heterozygosity: 0.28.

Not Polymorphic For: BglII, DraI, EcoRI, HindIII, HinfI, MspI, 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 two generation von Hippel-Lindau disease (VHL) family.

Probe Availability: Available for collaboration.

Acknowledgement: This project has been funded at least in part with Federal funds from the Department of Health and Human Services under contract number N01-CO-74102.

References: 1) American Type Culture Collection No. 57717, National Lab ID Code LA03NS01. 2) Lerman, M., Latif, F., Glenn, G. *et al.* (1991) 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* **86**, 567-577.

* To whom correspondence should be addressed

* To whom correspondence should be addressed