A new polymorphic probe on chromosome 3p: λ LIB43 – 55' (D3S728)

F.Latif, G.M.Glenn, K.Tory, 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 ¹Progam Resources Inc., Frederick Cancer Research and Development Center, Frederick, MD 21701, USA

Source/Description: λ LIB43–55' is a 7.0 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: 7.6 kb (A1) and 4.5 kb (A2).

Frequency: Estimated from 120 unrelated Caucasians.

A1: 0.54

A2: 0.46.

Frequency of Heterozygosity: 0.50.

Not Polymorphic For: BamHI, DraI, EcoRI, HindIII, RsaI, BglII, HinfI, 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 3pcen–3p14.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in a three generation CEPH 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 LIB08 – 60''' (D3S729)

F.Latif, G.M.Glenn, K.Tory, 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 ¹Progam Resources Inc., Frederick Cancer Research and Development Center, Frederick, MD 21701, USA

Source/Description: λ LIB08–60''' is a 1.9 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: MspI, BglII and RsaI digestions of genomic DNA, and hybridization with the probe, each detect two allele polymorphisms: 3.2 kb (M1), 2.8 kb (M2), 9.5 kb (B1), 9.0 kb (B2), 1.8 kb (R1) and 0.8 kb (R2).

Frequency: Estimated from 120 unrelated Caucasians.

M1: 0.31 B1: 0.19 R1: 0.5

M2: 0.69 B2: 0.81 R2: 0.5.

Frequency of Heterozygosity:

MspI 0.42

BglII 0.31

RsaI 0.50.

Not Polymorphic For: BamHI, DraI, EcoRI, HindIII, HinfI, 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 3p21–3pter.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in a three generation CEPH 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

* To whom correspondence should be addressed