A new polymorphic probe on chromosome 3p: λ LIB34-60 [D3S154]

G.M.Glenn*, O.W.McBride¹, F.Latif, L.Daniel, H.Brauch, J.Delisio², K.Hampsch², B.Zbar and M.I.Lerman

Laboratory of Immunobiology, National Cancer Institute, Frederick Cancer Research Facility NCI-NIH, Ft. Detrick, Building 560, RM 12-71, MD 21701 and ¹Laboratory of Biochemistry, National Cancer Institute, National Institutes of Health, Bethesda, MD 20892 and ²Program Resources Inc., Frederick Cancer Research Facility, Frederick, MD 21701, USA

SOURCE/DESCRIPTION: λ LIB34-60 is a 1.8 kb EcoR I fragment isolated from a Charon 21A human chromosome 3 library (1).

POLYMORPHISM: Bgl II digestion of genomic DNA and hybridization with the probe detects a two allele polymorphism: 5.5 kb (B1) and 4.3 kb (B2). No constant band was present.

FREQUENCY: Estimated from 25 unrelated Caucasians.

B1 : 0.78

B2 : 0.22

NOT POLYMORPHIC FOR: BamH I, Dra I, EcoR I, Hind III, Msp I, Pst I, Rsa I, and Taq I.

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 3p24 and 3pter.

MENDELIAN INHERITANCE: Mendelian inheritance has been demonstrated in a three generation CEPH family illustrated below.

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.
2. Brauch, H. et al.: Human Gene Mapping 10, Abstract No. A2212, 1989 (in press).

*To whom correspondence should be addressed