A new DNA marker, D3S733, identifies a HindIII polymorphism on chromosome 3p

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Source/Description: λ LIB17-78 (D3S733) is a 5.0 kb EcoRI insert isolated from a Charon 21A human chromosome 3 library.

Polymorphism: HindIII digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 12.0 kb (H1) and 7.5 kb (H2).

Frequency: Estimated from 120 unrelated Caucasians.

H1: 0.2

H2: 0.8

Frequency of Heterozygosity: 0.32. Observed frequency of heterozygosity = 0.37.

Not Polymorphic For: BamHI, BglII, DraI, EcoRI, HinfI, MspI, PvuII and TaqI.

Chromosomal Localization: Using a somatic cell hybrid panel (1) which was based on linkage groups anchored to physically localized markers, the probe was assigned to the short arm of chromosome 3 between the centromere and 3p14.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in three generation CEPH reference pedigrees.

Probe Availability: Available for collaboration.

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References: 1) 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 DNA marker, D3S742, identifies a MspI and a TaqI polymorphism on chromosome 3p

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Source/Description: λ LIB22-64 (D3S742) is a 4.0 kb EcoRI insert isolated from a Charon 21A human chromosome 3 library (1).

Polymorphism: MspI and TaqI digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism for each enzyme: 19.0 kb (M1) and 17 kb (M2); 4.9 kb (T1) and 4.7 (T2).

Frequency: Estimated from 120 unrelated Caucasians.

M1: 0.85 T1: 0.85

M2: 0.15 T2: 0.15

Frequency of Heterozygosity: 0.26 for MspI and TaqI. Observed frequency of heterozygosity = 0.28 for both REN.

Not Polymorphic For: BamHI, BglII, DraI, EcoRI, HindIII, 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 the centromere and 3p14.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in three generation CEPH reference pedigrees.

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-C0-74102.

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.

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