A new DNA marker, D3S740, identifies a MspI polymorphism on chromosome 3p

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Source/Description: λLIB9-29' (D3S740) is a 6.6 kb EcoRI insert 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: 3.0 kb (M1) and 2.2 kb (M2).

Frequency: Estimated from 120 unrelated Caucasians.

M1: 0.49

M2: 0.51

Frequency of Heterozygosity: 0.50. Observed heterozygosity = 0.54.

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

A new DNA marker, D3S754, identifies a HindIII polymorphism on chromosome 3p

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Source/Description: LIBCOS17-67" (D3S754) is a 40 kb insert isolated from a human chromosome 3 cosmid library.

Polymorphism: HindIII digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 10.0 kb (H1) and 7.0 kb (H2).

Frequency: Estimated from 120 unrelated Caucasians.

H1: 0.5

H2: 0.5

Frequency of Heterozygosity: 0.50. Observed heterozygosity = 0.43.

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.

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