A new polymorphic probe on chromosome 22: NB84 (D22S183)

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Source/Description: NB84 is a 1.0 kb HindIII-EcoRI fragment isolated from two pooled chromosome 22 specific libraries (ATCC # 57733 and ATCC # 57714) and is subcloned into pUC9.

Polymorphism: PstI digestion of genomic DNA and hybridization with the probe detects a two allele polymorphism: 4.6 kb (A1) and 4.0 kb (A2). No constant bands were present.

Frequency: Estimated from 91 unrelated Caucasians. A1: 0.19 A2: 0.81.

Not Polymorphic For: BglII, BglIII, DraI, MspI and TaqI.

Chromosomal Localization: Regional localization was established by hybridization to a panel of somatic cell hybrids: PgMe-25Nu, containing only human chromosome 22; PgMo-22 and 1CB-17ANu, respectively containing both products of the Philadelphia translocation at 22q11; A3EW2-3B, containing the t(11;22) from Ewing’s sarcoma (at 22q12) and 1/22 AM27 containing a t(1;22) at 22q13 (1, 2). The probe was assigned to chromosome 22 between 22pter and 22q11.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in extended pedigrees of Gilles de la Tourette syndrome families (n = 380).

Probe Availability: Available for collaboration.


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A new polymorphic probe on chromosome 22q: NB129 (D22S193)

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Source/Description: NB129 is a 0.6 kb HindIII-EcoRI fragment isolated from two pooled chromosome 22 specific libraries (ATCC # 57733 and ATCC # 57714) and is subcloned into pUC9.

Polymorphism: PstI digestion of genomic DNA and hybridization with the probe detects a two allele polymorphism: 1.6 kb (A1) and 1.3 kb (A2). No constant bands were present.

Frequency: Estimated from 98 unrelated Caucasians. A1: 0.45 A2: 0.55.

Not Polymorphic For: BglII, BglIII, DraI, MspI and TaqI.

Chromosomal Localization: Regional localization was established by hybridization to a panel of somatic cell hybrids: PgMe-25Nu, containing only human chromosome 22; PgMo-22 and 1CB-17ANu, respectively containing both products of the Philadelphia translocation at 22q11; A3EW2-3B, containing the t(11;22) from Ewing’s sarcoma (at 22q12) and 1/22 AM27 containing a t(1;22) at 22q13 (1, 2). The probe was assigned to the long arm of chromosome 22 between 22q11 and 22q12.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in extended pedigrees of Gilles de la Tourette syndrome families (n = 380).

Probe Availability: Available for collaboration.


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