A polymorphic DNA probe from chromosome 7 (7q22)

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Source/Description: p6a-1 is a 0.9 kb HindIII/BamHI genomic fragment subclone of cosm id cNX.6a in pUC13. cNX.6a was isolated from a non-methylated enriched library from the CMGT cell line CII (1, 2).

Polymorphism: Msp I (CCGG) identifies a three allele polymorphism with bands at 2.4 kb (A1), 1.8 kb (A2) and 1.35 kb (A3).

Frequency: Studied in 88 European Caucasians:
A1: 0.02
A2: 0.41
A3: 0.57

Not Polymorphic For: BamHI, HindIII, Psfl, PvuII, XbaI, EcoRI, TaqI, HincII.

Chromosomal Localization: To chromosome 7q22 using a panel of somatic human/rodent cell hybrids (3).

Mendelian Inheritance: Co-dominant segregation was demonstrated in 24 families.

Probe Availability: Contact X. Estivill.

Other Comments: The original cosmid clone recognizes a non-methylated CpG island.

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