A polymorphic DNA probe from chromosome 19 (19cen-q11)

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SOURCE AND DESCRIPTION OF CLONE: phom11, a 1.5 kb HindIII fragment subcloned into pTZ18 from a 6.5 kb genomic insert of the phage vector λ gtWES (Metzdorf et al. 1987). The recombinant phage was isolated from an EcoRI library containing genomic DNA enriched for flow-sorted human chromosome 22 (Krumlauf et al. 1982).

POLYMORPHISM: TaqI (TCGA) identifies a two allele polymorphism with bands at 2.3 kb (A1) and 1.5 kb (A2).

FREQUENCY: Studied in 26 European Caucasians, A1: 0.87
A2: 0.13

NOT POLYMORPHIC FOR: BamHI (from 6 ind.), BglI, XbaI, RsaI (from 5 ind.)

CHROMOSOMAL LOCALIZATION: The probe was mapped to chromosome 19 using a somatic human/rodent cell hybrid panel and regionally assigned to 19cen-q11 by means of in situ hybridization.

MENDELIAN INHERITANCE: Co-dominant segregation shown in 4 families.

PROBE AVAILABILITY: Freely available. Contact N. Blin.

REFERENCES: Krumlauf et al. (1982) Proc.Natl.Acad.Sci.USA 79:2971-2975
Metzdorf et al. (1987) Cytogenet. Cell Genet. 46:662

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