Isolation and mapping of a polymorphic DNA sequence (CJ52.161) on chromosome 16 [D16S150]

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SOURCE/DESCRIPTION: Cosmid CJ52.161 was isolated from a library constructed from a mouse/human somatic cell hybrid that contains a chromosome11q-16q derivative as the only human chromosome (1). The Sau3A partial digest was inserted into pWe vector.

POLYMORPHISM: TaqI identifies two polymorphic systems.

A: T1 : 6.2 kb, T2 : 5.8 kb

B: T1 : 8.4 kb, T2 : 6.0 kb 2.4 kb

FREQUENCY: Estimated from 94 unrelated Caucasians.

TaqI system A T1 : 0.74

T2 : 0.26

TaqI system B T1 : 0.98

T2 : 0.02

NOT POLYMORPHIC FOR: not known.

CHROMOSOMAL LOCALIZATION: CJ52.161 has been assigned to chromosome 16 by multipoint linkage analysis (2) with loci known to map on this chromosome (1).

MENDELIAN INHERITANCE: Codominant segregation of the TaqI RFLPs was observed in 47 three generation families.

PROBE AVAILABILITY: Contact C.J.

OTHER COMMENTS: This probe contains repetitive DNA sequences, and needs to be used in the presence of an excess of total human DNA in the prehybridization and hybridization mixtures.

REFERENCES:

1. C. Julier et al., in preparation
2. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)

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