Isolation and mapping of a polymorphic DNA sequence (CJ52.1) on chromosome 16 [D16S152]

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SOURCE/DESCRIPTION: Cosmid CJ52.1 was isolated from a library constructed from a mouse/human somatic cell hybrid that contains a chromosome 11q-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 : 8.9 kb, T2 : 6.4 kb 2.5 kb
B: T1 : 3.2 kb, T2 : 1.95 kb 1.25 kb

FREQUENCY: Estimated from 60 unrelated Caucasians.

TaqI	system A	T1 : 0.81
		T2 : 0.19
TaqI	system B	T1 : 0.46
		T2 : 0.54

NOT POLYMORPHIC FOR: MspI and PstI.

CHROMOSOMAL LOCALIZATION: CJ52.1 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 30 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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