
Isolation and mapping of a polymorphic DNA sequence pHHH202 on chromosome 17 [D17S33]

M.Hoff, Y.Nakamura, T.Holm, L.Ballard, P.O'Connell, M.Leppert, G.M.Lathrop, J.-M.Lalouel and R.White

The Howard Hughes Medical Institute, University of Utah Medical School, Salt Lake City, UT 84132, USA

SOURCE/DESCRIPTION: A 2.4 kb RsaI fragment from cosmid HHH202 was subcloned into the HincII site of pUC18.

POLYMORPHISM: RsaI identifies a two allele polymorphism (R1 : 2.4 kb, R2 : 1.9 kb).

FREQUENCY: Estimated from 97 unrelated Caucasians.

RsaI	R1 : 0.57
	R2 : 0.43

NOT POLYMORPHIC FOR: BamHI, BglIII, EcoRI, HindIII, MspI, PstI, PvuII and TaqI.

CHROMOSOMAL LOCALIZATION: pHHH202 has been assigned to the centromeric region of chromosome 17 by multipoint analysis (1) with loci (MYH2, D17Z1, TK1) known to span this region (2,3).

MENDELIAN INHERITANCE: Co-dominant segregation has been observed with the RsaI RFLP in 49 three generation families.

PROBE AVAILABILITY: Contact Y.N.

OTHER COMMENTS: This probe was pre-associated with excess human DNA prior to hybridization, otherwise, RFLPs were observed under normal conditions of hybridization and washing.

REFERENCES:

1. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
2. S. Naylor et al., Cytogenet. Cell Genet. 40:242-267 (1985)
3. Y. Nakamura et al., abstract submitted to the Human Gene Mapping Workshop 9