Isolation and mapping of a polymorphic DNA sequence (pJCZ30) on chromosome 6 [D6S37]

Y.Nakamura, J.Cowen, C.Martin, M.Leppert, P.O'Connell, G.M.Lathrop, J.-M.Lalouel and R.White

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

SOURCE/DESCRIPTION: A 3.0 kb *RsaI* fragment from the cosmid cJCZ30 isolated with zeta globin oligonucleotide (1) was subcloned into the *HincII* site of pUC18.

POLYMORPHISM: *HindIII* identifies a 4 allele VNTR polymorphism with bands between 1.0 kb and 3.0 kb. *MspI*, *TaqI*, *RsaI*, *PstI*, *PvuII*, *EcoRI* and *BamHI* also detect the same polymorphism.

HETEROZYGOSITY: 74% heterozygosity was observed in 77 unrelated Caucasians.

NOT POLYMORPHIC FOR: None detected

CHROMOSOMAL LOCALIZATION: This probe has been assigned to chromosome 6 by two point linkage analysis (2) with a locus (D6S2) known to span this region (3).

MENDELIAN INHERITANCE: Co-dominant segregation demonstrated in 39 three generation families.

PROBE AVAILABILITY: Contact Y.N..

OTHER COMMENTS: RFLPs were observed under normal conditions of hybridization and washing.

REFERENCES:

1. Y. Nakamura et al., *Science* **235**: 1616-1622 (1987)
2. G.M. Lathrop et al., *Am. J. Hum. Genet.* **37**:482-498 (1985)
3. L.U. Lamm and B. Olaisen, *Cytogenet. Cell Genet.* **40**:128-155 (1985)