

---

**Isolation and mapping of a polymorphic DNA sequence pYNH37.3 on chromosome 17p [D17S28]**

---

Y.Nakamura, T.Bragg, L.Ballard, M.Leppert, P.O'Connell, 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 1.6 kb MspI fragment from the cosmid YNH37 identified with the HBV-2 oligonucleotide (1) was subcloned into AccI site of pUC18.

**POLYMORPHISM:** TaqI identifies a 5 allele VNTR polymorphism with bands between 2.0 kb and 4.0 kb. MspI and RsaI also detect the same polymorphism.

**HETEROZYGOSITY:** 78% heterozygosity was observed in 104 unrelated Caucasians.

**NOT POLYMORPHIC FOR:** not detected.

**CHROMOSOMAL LOCALIZATION:** This probe has been assigned to chromosome 17p by multifactor linkage analysis (2) to loci (D17S1, MYH2, D17Z1) known to span this region.

**MENDELIAN INHERITANCE:** Co-dominant segregation of the pYNH37.3 VNTR was observed demonstrated in 52 three generation families.

**PROBE AVAILABILITY:** Available from the ATCC. Or contact Y.N..

**OTHER COMMENTS:** RFLPs were observed under normal hybridization stringency.

**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. S. Naylor et al., Cytogenet. Cell Genet. 40:242-267 (1985)
4. Y. Nakamura et al., abstract submitted to the Human Gene Mapping Workshop 9