Volume 15 Number 23 1987 Nucleic Acids Research

Isolation and mapping of a polymorphic DNA sequence pTBAB5.7 on chromosome 2 (D2S47)

T.Bragg, Y.Nakamura, J.Gill, 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 3.3 kb MspI fragment from cosmid TBAB5.7 was subcloned into the AccI site of pUC18.

POLYMORPHISM: PvuII identifies a 5 allele VNTR polymorphism with bands between 4.1 - 5.0 kb. RsaI and BglII also detect the same polymorphism.

FREQUENCY: With PvuII, 60% Heterozygosity was obserbed in 88 unrelated Caucasians.

NOT POLYMORPHIC FOR: TaqI, BamHI and HindIII

CHROMOSOMAL LOCALIZATION: pTBAB5.7 has been assigned to chromosome 2 by multipoint linkage analysis(1) with loci (ACP, D2S1) known to span this region(2,3).

MENDELIAN INHERITANCE: Co-dominant segregation of the PvuII RFLP was observed in 44 three generation families.

PROBE AVAILABILITY: Contact Y.N.

OTHER COMMENTS: RFLPs were observed under normal hybridization and wash stringencies.

REFERENCES:

1. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
2. S.Povey, N.E. Morton and S.L. Sherman, Cytogenet. Cell Genet.40:67-106 (1985)
3. G.M. Lathrop et al., abstract submitted to Human Gene Mapping Workshop 9. Cytogenet. Cell Genet., in press