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Authors

Pandolfo, Massimo
Wagner, Caryn
Smith, Moyra

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An anonymous DNA probe (LAMP 92) detects a Pvu II polymorphism on human chromosome 9 [D9S29]

Massimo Pandolfo, Caryn Wagner and Moyra Smith

Department of Pediatrics, University of California, Irvine, CA 92717, USA

SOURCE AND DESCRIPTION OF CLONE: Phage LAMP92 was isolated from the Los Alamos chromosome 9 library (ATCC No.57724) and its 3.8 kbp insert was subcloned into the EcoRI site of pUC19.

POLYMORPHISM: PvuII identifies a 2 allele polymorphism (A1: 6.5 kb, A2: 7.5KB) with a 4 kb constant band. Taq I also identifies a multi-allele RFLP currently being characterized.

FREQUENCY: Estimated on 44 unrelated Caucasians:
PvuII allele A1 (6.5 kb): 0.81
PvuII allele A2 (7.5 kb): 0.19

NOT POLYMORPHIC FOR: EcoRI, Hind III, Msp I, BamHI, Pst I, Stu I, Rsa I, Xba I

CHROMOSOMAL LOCALIZATION: Localized on 9q31 by in situ hybridization.

MENDELIAN INHERITANCE: Co-dominant segregation shown in 10 informative families.

PROBE AVAILABILITY: Available for collaboration

OTHER COMMENTS: High stringency wash (0.1 x SSC, 0.1% SDS, 65°C) required because of significant lane background. Pre-hybridization of probe with sheared total human DNA is useful.

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