A DNA probe, D5 [D4S90] mapping to human chromosome 4p16.3

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SOURCE/DESCRIPTION: The probe was isolated from the Los Alamos flow sorted chromosome 4 library. It contains a 1.8 kb EcoRI fragment cloned into pSP64.

POLYMORPHISM: The probe detects a two allele Pvu II polymorphism with bands at 5.0 and 5.6 kb and an invariant band at 3.5 kb. The probe also detects polymorphisms with Hinc II, Nsi I, Stu I, Xba I and Xmn I, which appear to be in complete linkage disequilibrium.

FREQUENCY: Studied in 76 Caucasians

Pvu II 5.0 Kb allele 0.86
5.6 kb allele 0.14


CHROMOSOMAL LOCALIZATION: The probe has been localised to 4p16.3 by somatic cell hybrids.

MENDELIAN INHERITANCE: Co-dominant inheritance has been shown in CEPH families 2, 17, 45, 884, 1331, 1333, 1344, 1345, 1350, 1375, 1377, 1408, 1416, 1418, 1420, 1421, 13291 and 13292.

PROBE AVAILABILITY: The probe is available for collaborative studies on Huntington's disease and available freely to other workers.


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