New TaqI RFLPs at the DXS2 (St14) locus in the black population

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Source/Description: the probe St14.1 is a 3.0 kb Eco RI fragment cloned in pBR322(1).

Polymorphisms: Taq I digestion of genomic DNA reveals two distinct polymorphic systems. The primary system is composed of at least 24 alleles ranging in size from approximately 15 kb to 3.0 kb. The secondary system involves the presence of a Taq I site in a 5.5 kb band which gives rise to two bands at 4.0 kb and 1.5 kb. In the Caucasian population, this extra Taq I site is quite rare.

Heterozygosity: 84% heterozygosity for the primary polymorphic system was observed in 20 unrelated black females.

Frequency: For the secondary polymorphic system:

B1 (5.5 Kb)	0.75
B2 (4.0 Kb, 1.5 Kb)	0.25

Not polymorphic for: No other enzymes were tested. This probe is known to have a two allele MspI RFLP in the Caucasian population

Mendelian Inheritance: Has exhibited X-linked inheritance in seven large black families.

Chromosomal Localization: Xq28 by linkage analysis to other probes in the region (1).

Probe Availability: Contact Dr. J-L. Mandel

Other Comments: At least one of these alleles (the one approximately 15kb in length) has been observed in the Algerian population (J-C Kaplan, INSERM U.129, Paris, France, personal communication).

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References: 1. Oberle et al, Proc. Natl. Acad. Sci 81: 2836-2837, 1985.