
An anonymous DNA segment ($\Pi 227$) maps to the long arm of human chromosome 5 and identifies a *Bst*XI polymorphism (D5S26)

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SOURCE/DESCRIPTION:

Recovered from the library of Lawn et al. cloned into Π AN7.
900 bp HindIII/EcoRI insert.

POLYMORPHISM:

*Bst*XI allele 1:2.7kb; allele 2:2.3kb. Others for *Pst*I (4.3 and 3.0); *Mbo*I (550bp and 450bp) and *Bcl*I (3.0 and 1.8, 1.2) are in disequilibrium with *Bst*XI polymorphism. There are no constant bands.

FREQUENCY:

*Bst*XI polymorphism: Allele 1, 0.3; Allele 2, 0.7 based on 34 chromosomes.

NOT POLYMORPHIC FOR:

*Apa*I, *Bam*HI, *Ban*II, *Bg*II, *Bgl*II, *Eco*RI, *Eco*RV, *Hae*II, *Hinc*II, *Hinf*I, *Hind*III, *Kpn*I, *Msp*I, *Nci*I, *Pvu*II, *Rsa*I, *Sau*96A, *Sty*I, *Taq*I, *Xba*I, *Xmn*I

CHROMOSOMAL LOCALISATION:

5q by somatic cell hybrids, provisionally 5q14-5q32.

MENDELIAN INHERITANCE:

Yes, based on 3 single child families.

PROBE AVAILABILITY:

Freely available.

OTHER COMMENTS: Gel conditions: *Bst*XI and *Bcl*I -90V in 0.8% agarose
All 16 hours in TBE *Mbo*I -50V in 1.2% agarose
*Pst*I -70V in 0.8% agarose

REFERENCE:

Lawn RM, Fritsch EH, Parker RC, Blake G, and Maniatis T.
Cell 15:1157-1174 (1978).

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