An anonymous single copy X-chromosome clone DXS94 from Xq11-q21 identifies a common RFLP

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SOURCE/DESCRIPTION: pXG-12, a 1.5 kb BglIII fragment subcloned from a 9.2 kb fragment genomic insert of the phage clone S34-2, isolated from an EcoRI library (vector gt7) of the hybrid cell line A9/HRBC2, which contains the X and a small segment of chromosome 2 as the only human genetic material.

POLYMORPHISM: PstI identifies a simple two-allele polymorphism with bands at either 6.5 kb (A1) or 7.2 kb (A2).

FREQUENCY: Studied 25 Sardinians and 18 Asians: 26 females, 17 males
6.5 kb allele (A1) 0.52
7.2 kb allele (A2) 0.48

NOT POLYMORPHIC FOR: BamHI, BclI, BglI, BglII, EcoRI, Hind III, MspI, Pvu II, Taq I, XbaI, all with a panel 10-12 unrelated Sardinians

CHROMOSOMAL LOCALISATION: Probe localized to the interval Xq12-q21 by in situ hybridization.

MENDELIAN INHERITANCE: X-linked segregation observed in at least three CEPH pedigrees: 21, 23 and 1413.

PROBE AVAILABILITY: Probe is available through the ATCC

OTHER COMMENTS: Probe insert can be prepared by EcoRI, SalI double digestion.

REFERENCE: Davatelis et al., H6M8

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