A second polymorphism identified by a fragment co-amplified with c-Ki-ras

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SOURCE/DESCRIPTION: A 1250 bp HindIII/EcoRI fragment of human genomic DNA in pUC19 (pK42). The fragment which was co-amplified with c-Ki-ras in several human tumours detects a frequent StuI polymorphism (1).

POLYMORPHISM: BstXI identifies a second, simple two allele polymorphism with bands at either 1.90 or 1.65 kb.

FREQUENCY: Studied in 40 unrelated individuals
1.65 kb allele 0.28
1.90 kb allele 0.72

NOT POLYMORPHIC FOR: See (1). Also BamHI, SnoI, EcoO 109, SpeI, EcoRV, AccI, SspI with a panel of 9 individuals.

CHROMOSOMAL LOCALISATION: 12pter-12q14 using a panel of somatic cell hybrids (2).

MENDELIAN INHERITANCE: Co-dominant segregation demonstrated in five families.

PROBE AVAILABILITY: On request.

OTHER COMMENTS: Heterozygosity, using two polymorphisms estimated at 68% (40 individuals). Plasmid may show unusual supercoiling (2) and induce bacterial aggregation in certain hosts.

REFERENCES: (1) Heighway J and Guerts van Kessel A H M. Nucleic Acids Res 14, 8700
(2) Heighway J and Guerts van Kessel A H M. Nucleic Acids Res 15, 3411-3420

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