BglII dimorphism at the human atrial natriuretic peptide (ANP) gene locus

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SOURCE/DESCRIPTION: 0.7kb human ANP cDNA isolated from a human fetal heart cDNA library and subcloned into pUC 9 (1).

POLYMORPHISM: Bgl II detects two allelic fragments of 9.1kb and 6.5 kb.

FREQUENCY: Studied in 90 unrelated North American Caucasians
9.1kb allele: 0.07
6.5kb allele: 0.93

NOT POLYMORPHIC FOR: Not extensively screened

CHROMOSOMAL LOCALISATION: Human ANP gene located on the distal short arm of chromosome 1 by Southern blot analysis of DNA from human-rodent somatic cell hybrids(2).

MENDELIAN INHERITANCE: Co-dominant segregation observed in 3 families (18 individuals).

PROBE AVAILABILITY: Requests for probe to J.C.F. at the above address.

OTHER COMMENTS: Low background under usual stringency conditions.

REFERENCE: 1-Fiddes, J.C., and Freidemann, T. (unpublished)
2-Yang-Feng, T.L. et al. (1985) AM. J. Hum. Genet. 37, 1017-1128.

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