Human atrial natriuretic peptides (ANP) gene locus: BglI RFLP

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SOURCE/DESCRIPTION 0.7kb human ANP cDNA isolated from a human fetal heart cDNA library and subcloned into pUC9 (1).

POLYMORPHISM BglI (GCCNNNNNGGC) detects a single two-allele polymorphism with fragments at either 4.1kb or 6.2kb.

FREQUENCY Studied in 200 unrelated Northern American individuals.
6.2kb allele 0.84±0.02
4.1kb allele 0.16±0.02

CHROMOSOMAL LOCALIZATION 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 4 families (26 individuals).

PROBE AVAILABILITY Requests for probe to P.F. at the above address.

OTHER COMMENTS Low back-ground under usual stringency conditions.

REFERENCES 1. Fiddes, J.C. and Friedemann, T. (unpublished).
2. Yang-Feng, T.L. et al. (1985) Am. J. Hum. Genet. 37, 1117-1128.

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