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

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

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

FREQUENCY Studied in 200 unrelated Northern American individuals.
6.2 kb allele 0.84 ± 0.02
4.1 kb 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 background under usual stringency conditions.


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