Human atrial natriuretic peptides (ANP) gene locus: BglII 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 BglII (GCCNNNNNGGC) detects a single two-allele polymorphism with fragments at either 4.1kb or 6.2kb.

FREQUENCY Studied in 200 unrelated Northern American individuals.

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<th>Allele</th>
<th>Frequency</th>
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<tr>
<td>6.2kb allele</td>
<td>0.84±0.02</td>
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<tr>
<td>4.1kb allele</td>
<td>0.16±0.02</td>
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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.

REFERENCES

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