HinfI RFLP at the human renin (REN) gene locus

Umesh Masharani

California Biotechnology Inc., 2450 Bayshore Parkway, Mountain View, CA 94043, USA

SOURCE/DESCRIPTION: pCB-01, a 0.75kb fragment corresponding to the 5' half of human renin cDNA was subcloned into the EcoRI site of pUC9 vector (1).

POLYMORPHISM: HinfI (GATC) detects a single two allele polymorphism with fragments at either 1.4kb or 1.3kb.

FREQUENCY: Studied in 51 unrelated North American caucasians:

1.4kb allele: 0.28 $\pm$ 0.05
1.3kb allele: 0.72 $\pm$ 0.05

CHROMOSOMAL LOCALIZATION: Human renin gene has been assigned to chromosome 1 by southern blot analysis of DNA from human-rodent somatic cell hybrids (2).

MENDELIAN INHERITANCE: Codominant segregation of RFLP observed in one family (7 individuals).

PROBE AVAILABILITY: Requests for probe to U.M. at above address.

REFERENCES:

1. Fritz, L.C. *et al.* (1986) PNAS 83, 4114
2. Naylor, S.L. *et al.* (1984) Cytogen Cell Genet 37, 549