HincII RFLP at the human hexokinase I (HK1) locus on chromosome 10

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SOURCE/DESCRIPTION: pHK15-2 (vector - pBR327) is a cDNA clone containing a 3,248 bp EcoRI fragment of λ hHEX-15 (1) which codes for amino acids 92-917 of human hexokinase I and the 3'-untranslated region of the mRNA.

POLYMORPHISM: Hinc II digestion reveals a two-allele polymorphism with fragments of 11.0 kb (allele 1) and 8.6 kb (allele 2) as well as invariant fragments of 7.8, 6.1, 4.7 and 1.8 kb.

FREQUENCY:	Allele 1	Allele 2
Caucasians (N = 14)	0.71	0.29
U.S. Blacks (N = 14)	0.82	0.18

NOT POLYMORPHIC FOR: Bcl I, Bgl I, Bgl II, EcoRI, Msp I, Pst I, Rsa I, Sph I, Taq I and Xba I in a panel of 14 unrelated individuals.

CHROMOSOMAL LOCALIZATION: 10q22 (T. B. Shows et al., submitted)

MENDELIAN INHERITANCE: Co-dominant segregation was observed in one four generation family in which 20 individuals were typed.

PROBE AVAILABILITY: Contact G. I. Bell

REFERENCE: 1. Nishi, S., Seino, S. and Bell, G. I. (1988) Biochem. Biophys. Res. Commun. **157**: 937-943.