

**A Taq I polymorphism in the human P450IIE1 gene on chromosome 10 (CYP2E)**

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**SOURCE/DESCRIPTION:** A 1.6 kb cDNA containing the full amino acid coding region and 3' untranslated region of human P450IIE1 mRNA in pUC9 (Song *et al.*, 1986). This probe detects all nine exons of the P450IIE1 gene.

**POLYMORPHISM:** Taq I detects a two allele polymorphism with bands at either 3.0 kb (A1) or 1.3 kb and 1.7 kb (A2). Invariant bands of 0.3, 0.9, 1.4, 1.7, and 2.8 kb were also detected.

**FREQUENCY:** 39 unrelated North American Caucasians  
 3.0 kb Allele (A1) - 0.10  
 1.3 kb and 1.7 kb Allele (A2) - 0.90

**NOT POLYMORPHIC FOR:** BamH I, Bgl II, EcoR I, EcoR V, Hind III, Kpn I, Msp I, Sac I, and Xba I in 10 unrelated individuals.

**CHROMOSOMAL LOCALIZATION:** The human P450IIE1 gene was localized to chromosome 10 using a panel of somatic cell hybrids.

**PROBE AVAILABILITY:** F.J. Gonzalez

**REFERENCE:**

Song BJ, Gelboin HV, Park SS, Yang CS, and Gonzalez FJ. *J Biol Chem* 261: 16689-16697 (1986).

**Fig. 1. Map of Taq I cleavage sites in the human P450IIE1 gene and a typical autoradiographic pattern showing the RFLP. The symbol \* denotes the polymorphic site.**

