An anonymous DNA segment pTPSE (D5S70) maps to the long arm of chromosome 5 and identifies a Taq I polymorphism

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SOURCE/DESCRIPTION: The probe is a 5 kb EcoRI fragment subcloned into pBR325. The fragment was isolated from a human chromosome 5 specific genomic library in lambda EMBL-4, prepared from a Chinese hamster x human hybrid with chromosome 5 as the only human chromosome (Ref. 1).

POLYMORPHISM: TaqI detects a simple two-allele polymorphism with bands at either 12.5 kb (allele 1) or 5.0 kb (allele 2). There are no invariant bands.

FREQUENCY: Estimated from 29 unrelated Caucasian individuals residing in the United States: allele 1, 0.83; allele 2, 0.17.

NOT POLYMORPHIC FOR: AvaII, BamHI, BclI, BglII, BstEII, EcoRI, HincII, HindIII, HspI, PstI, PvuII, RsaI, SacI with a panel of 5 unrelated Caucasians.

CHROMOSOMAL LOCALISATION: 5q23-31 by *in situ* hybridisation. The marker has also been included on a genetic map of 5q (Ref. 2).

MENDELIAN INHERITANCE: Co-dominant segregation was demonstrated in 5 families.

PROBE AVAILABILITY: Generally available. Contact R.A.F. at The University of Chicago, 928 E. 58th St., Chicago, IL 60637.

REFERENCES: (1) Carlock et al., *Am. J. Hum. Genet.* 37: 839-852 (1985); (2) Leppert et al., *Science* 238: 1411-1413 (1987).

ACKNOWLEDGEMENTS: Supported by NIH grants CA40046, GM32098 and, GM25339. M.M.L. is a Scholar of the Leukemia Society of America.