DraI and ScaI RFLPs at human tyrosine hydroxylase (TH) gene locus

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SOURCE/DESCRIPTION: pCB-05, a 1.5kb human tyrosine hydroxylase cDNA fragment isolated from a human adrenal cDNA library and subcloned into the EcoRI site of puc8.

POLYMORPHISMS: (1) DraI (TTTAAA) detects a polymorphism with bands at 15.0kb or 12.1kb or both.

(2) ScaI (AGTACT) detects a polymorphism with bands at 11.0kb or 9.1kb or both.

FREQUENCY: Studied in 42 North American Caucasians

(1) DraI:	15.0kb allele	0.24±0.05
	12.1kb allele	0.76±0.05
(2) ScaI:	11.0kb allele	0.20±0.04
	9.1kb allele	0.80±0.04

CHROMOSOMAL LOCALIZATION: The human tyrosine hydroxylase gene has been assigned to chromosome 11 by Southern blot analysis of human-mouse cell hybrids (1) and has been localized to 11p15 by in situ hybridization (2).

MENDELIAN INHERITANCE: Co-dominant segregation of both RFLPs has been observed in one family (12 individuals).

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

REFERENCES: (1) Powell, J.F. *et al.* (1984) FEBS 175 (1), 37-40.
(2) Craig, S.P. *et al.* (1986) Cytogenet Cell Genet 42, 29-32.