Two TaqI dimorphic sites at the human β -hydroxylase locus

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Description of clone : A human cDNA clone (DBH2) of dopamine-beta-hydroxylase was used (1).

Polymorphism : Taq I identifies two di-allelic loci (see Fig. 1). For the first one, the absence of a Taq I site results in a 7,7 kb fragment (A1) ; whereas its presence results in a 4.3 kb and a 3.4 kb fragment (A2). For the second one, we observed two alleles with bands either at 2.8 kb (B1) or at 1.4 kb (B2). Six invariant bands were observed at 5.1 kb, 2.6 kb, 2.4 kb, 1.6 kb and 0.7 kb.

Frequencies : studied in 34 unrelated Caucasians :

A1 : 0.84	B1 : 0.56
A2 : 0.16	B2 : 0.47

Not polymorphic for : Ava II, BstNI, EcoRI, EcoRV, HinfI, MspI, PvuII, XbaI and Xmn I all examined with a panel of 9 unrelated Caucasians.

Chromosomal localisation : 9q34 (2).

Mendelian inheritance : Codominant inheritance was demonstrated in two nuclear kindreds.

Probe availability : Contact J.M. at the above address.

References : (1) Lamouroux and al. (1987) EMBO J., 6, 3931-7.
(2) Craig and al. (1988) Cytogenet. Cell. Genet., 48, 1, 48-51.

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