An anonymous marker [HGM provisional # D11S415] maps to human chromosome 11 near the catalase (CAT) gene

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Source/description: Probe 11.A.4 is a 5 kb HindIII fragment from a randomly isolated lambda clone from the human flow sorted chromosome library LL11NS01.

Polymorphism: TaqI (TCGA) detects a two allele polymorphism with allelic bands of 3.6 kb and 2.7 kb.

Frequency: Estimated from 114 unrelated individuals:
3.6 kb (A1) allele: 0.74
2.7 kb (A2) allele: 0.26

Not polymorphic for: BamHI, BglII, EcoRI, EcoRV, HindIII, PvuII, RsaI, and SstI in a panel of 6 unrelated individuals.

Chromosomal localization: Assigned to human chromosome 11p13 by Southern blot analysis of rodent-human somatic cell hybrids and linkage to CAT (1) ($Z_{\max}=3.4$, $\theta=.05$).

Mendelian inheritance: Codominant segregation of the TaqI alleles observed in 15 families.

Probe availability: Available from P. Concannon at the above address.

Other comments: Probe contains repetitive sequences and should be hybridized in the presence of human carrier DNA and washed at high stringency.

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Reference: (1) Quan *et al.* (1986) *Nucl. Acids Res.* **14**, 5321–5335.

Bgl I reveals two polymorphic sites in the human inter-alpha-trypsin inhibitor heavy chain gene ITI H2

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Source and description of clone: The 0.8 kb EcoRI/BamHI fragment of lambda HuHITI-9 (1) used as probe codes for human heavy chain H2 of the inter-alpha-trypsin inhibitor (2).

Polymorphism: BglII (GCCN4/NGGC) identifies a three allele polymorphism with DNA fragments at 20.0 kb (A) or 11.0 kb (B) or 16.5 kb and 3.5 kb (C).

Frequencies: Studied in 20 healthy caucasians.
A:20.0 kb allele 0.900
B:11.0 kb allele 0.025
C:16.5 kb and 3.5 kb allele 0.075

Not polymorphic for: Already listed in (3).

Chromosomal localisation: The ITIH2 gene has been mapped to 10p15 by in situ hybridization (2).

Mendelian inheritance: Codominant segregation was found for each polymorphism in one informative family (Fig.).

Probe availability: Available from J.P.Martin.

References: (1) Salier, J.P. *et al.* (1987) *Proc. Natl. Acad. Sci. USA* **84**, 8272–8276. (2) Diarra-Mehrpour, M. *et al.* (1989) *Eur. J. Biochem.* **179**, 147–154. (3) Léveillard, T. *et al.* (1989) *Nucl. Acids Res.* **17**, 5148.