An Apa I polymorphism for the human inter- α -trypsin inhibitor heavy chain gene ITIH1 on chromosome 3

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SOURCE AND DESCRIPTION OF CLONE : The 1.0 kb insert of λ HuHITI-19 (1) used as a probe codes for the heavy chain H1 of the human inter-alpha-trypsin inhibitor (2).

POLYMORPHISM : Apa I (GGGCC/C) identifies four invariant bands at 1.9 kb, 1.5 kb, 1.3 kb and 1.05 kb and a diallelic polymorphism with DNA fragments at 1.6 kb or 0.8 kb.

FREQUENCY : Studied in 30 healthy caucasians:

0.8 kb allele (0.55)
1.6 kb allele (0.45)

NOT POLYMORPHIC FOR : Bgl I and 17 other enzymes already listed in (3).

CHROMOSOMAL LOCALISATION : The ITIH1 gene has been mapped to 3p211-p212 by in situ hybridization (2).

MENDELIAN INHERITANCE : Codominant segregation was found in one informative family (Fig.).

PROBE AVAILABILITY : Available from J.P. Martin.

REFERENCES :

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- (3) Léveillard T. et al. Nucl. Acids Res. 1988, **16**, 11852.