Isolation of a polymorphic DNA sequence YM44 (D2S78) on chromosome 2

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Source/Description: YM44 (D2S78) is a 1.8 kb single copy *EcoRI* fragment isolated from a Charon 21A human chromosome 2 library (1).

Polymorphism: *BglII* (A↓GATCT; BRL) detects a two allele polymorphism

A1: 21.1 kb

A2: 15.8 kb

Frequency: Estimated from 22 unrelated Caucasians

A1: 0.91

A2: 0.09

Not Polymorphic For: *AvaII*, *PvuII*, *EcoRI*.

Chromosomal Localisation: The probe was assigned to chromosome 2 using a panel of somatic cell hybrids (2).

Mendelian Inheritance: Co-dominant segregation has been observed in 5 families.

Probe Availability: Available for collaboration. Contact P.Boyd.

Acknowledgement: This work was supported by the Wellcome Trust.

References: 1) American Type Culture Collection No. 57716. 2) Horton, Y.M. and Boyd, P.A. Manuscript in preparation.

EcoRV polymorphism detected by cDNA probe for human tryptase beta (TP52)

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Source/Description: A *BamHI-EcoRI* fragment of the 3' flanking region from clone gra-1 was used as probe and hybridizes to both tryptase- α and tryptase- β . Gra-1 is a 856-nucleotide cDNA of human tryptase beta cloned in λ ZAP expression vector.

Polymorphisms: *EcoRV* cleavage of genomic DNA reveals a 2-allele polymorphism with band sizes of 20 (A1) and 13 kb (A2). There may be a 20 kb invariant band; of 28 unrelated Caucasians, none had the homozygous 13 kb genotype.

Other Enzymes Tested and Not Polymorphic For: *AluI*, *CfoI*, *HaeIII*, *SstI*.

Frequency: Estimated from 28 unrelated Caucasians.

Allele	Frequency
A1	0.68
A2	0.32

Polymorphism Information Content: 0.34

Chromosomal Localization: human chromosome 16.

Mendelian Inheritance: Codominant inheritance was documented in 5 families with 21 children (ratio of Mendelian to random likelihood 12.3:1).

Probe Availability: Contact Dr L.B.Schwartz.

Reference: Miller, J.S., Moxley, G. and Schwartz, L.B. (1990) *J. Clin. Invest.* **84**, 1188-1195.

Figure 1. The autoradiographic pattern obtained from one family, with the parents on the extreme right and left lanes and the children between.

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