## Taql RFLP in the interferon gamma receptor 1 gene (IFNGR1) on human chromosome 6q

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Source/Description: The probe used for Southern hybridization is a 1.8kb IFNGR1 cDNA fragment cloned into the SmaI site of pUC19 (pUChGIFR16'; ref.1).

*Polymorphism*: *TaqI* identifies a two allele RFLP with bands at 6.1kb (A1) and 3.2kb + 2.9kb (A2). Invariant bands are 3.8kb and 1.2kb.

Frequency: Calculated from 33 unrelated Caucasians

A1: 0.85 A2: 0.15

Heterozygosity: 0.18

Not Polymorphic For: BglII, BamHI, EcoRI, HindIII, MspI, PstI, PvuII, SacI, StuI, XbaI, and XmnI (tested on a panel of 9 unrelated individuals).

Chromosomal Localization: IFNGR1 has been assigned to human chromosome 6q23-q24 by in situ chromosomal hybridization (2).

Mendelian Inheritance: Co-dominant segregation demonstrated in 2 informative families.

Probe Availability: American Type Culture Collection.

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References: 1) Aguet, M. et al. (1988) Cell 55, 273-280. 2) Le Coniat, M. et al. (1989) Human Genetics 84, 92-94.

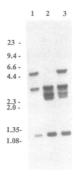


Figure 1. IFNGR1 RFLP detected by Southern blot analysis of TaqI digested human DNA. The two alleles are identified by 6.1kb (A1) and 3.2+2.9kb (A2) bands in a .8% agarose gel. Lane 1: A1 homozygous; lane 2: A2 homozygous; lane 3: heterozygous. Hybridization and washing conditions were 50% formamide, 3× SSC, 37°C and .2× SSC, 60°C, respectively.

## Pvull RFLP in the cytovillin gene (VIL2) on human chromosome 6q

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Source/Description: The probe used for Southern hybridization (pCV6) is a 2.2kb VIL2 cDNA fragment cloned into the Eco RI site of pGEM (1).

Polymorphism: PvuII identifies a two allele RFLP with bands at 6.1kb (A1) and 4.8kb (A2). Invariant bands are 8.1kb, 2.1kb, 1.5kb, 1.3kb, and 0.9kb.

Frequency: Calculated from 33 unrelated Causasians:

A1: 0.56 A2: 0.44

Heterozygosity: 0.64

Not Polymorphic For: BamHI, EcoRI, HindIII, HinfI, MspI, PstI, RsaI, SacI, StuI, TaqI, XbaI, and XmnI (tested on a panel of 9 unrelated individuals).

Chromosomal Localization: VIL2 has been assigned to human chromosome 6q22-q27 using somatic cell hybrids (1).

*Mendelian Inheritance*: Co-dominant segregation demonstrated in 3 informative families.

Probe Availability: Contact Dr. Ossi Turunen, Department of Virology, University of Helsinki, SF-00290 Helsinki, Finland

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Reference: 1) Turunen, O. et al. (1989) J. Biol. Chem. 264, 16727 – 16732.

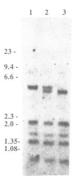


Figure 1.VIL 2 RFLP detected by Southern Blot analysis of PvuII digested human DNA. The two alleles are identified as 6.1kb (A1) and 4.8kb (A2) bands in a .8% ararose gel. Lane 1: A1 homozygous; lane 2: heterozygous; lane 3: A2 homozygous. Hybridization and washing conditions were 50% formamide,  $3 \times SSC$ ,  $37^{\circ}C$  and  $.2 \times SSC$ ,  $60^{\circ}C$ , respectively.

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