Human T-cell receptor CD3- γ (CD3G) / MspI DNA polymorphism

P.Charmley, S.Wei¹, O.Sanal¹, U.Malhotra², P.Concannon², C.Terhorst³ and R.A.Gatti¹

Department of Microbiology and Immunology and ¹Department of Pathology, UCLA, Los Angeles, CA 90024, ²Virginia Mason Research Center, Seattle, WA 98101 and ³Laboratory of Molecular Immunology, Dana-Farber Cancer Institute, Boston, MA 02115, USA

SOURCE/DESCRIPTION: 760 bp cDNA including the entire coding sequence of the CD3-gamma subunit of the human CD3 (T3) antigen/T-cell antigen receptor complex (1).

POLYMORPHISM: MspI (CCGG) detects a single two-allele polymorphism with either one band at 2.5 kb or two bands at 1.7 kb and 0.76 kb.

FREQUENCY: Estimated from 57 unrelated Caucasians.

MspI	2.5 kb allele:	0.80
	1.7 kb, 0.8 kb allele:	0.20

NOT POLYMORPHIC FOR: BamHI, BglII, EcoRV, TaqI, and PvuII using a panel of 12 unrelated individuals.

CHROMOSOMAL LOCATION: Assigned to human chromosome 11q23 by Southern blot analysis of human-rodent somatic cell hybrids, and by *in situ* hybridization (1).

MENDELIAN INHERITANCE: Co-dominant segregation of the MspI alleles observed in 11 families (134 individuals). Genotypes occur in Hardy-Weinberg proportions.

PROBE AVAILABILITY: Request for probe to C. Terhorst at the above address.

OTHER COMMENTS: RFLPs were observed under normal hybridization and washing conditions.

REFERENCES:

1. G.W. Krissansen et al., Immunogenetics **26**:258-266 (1987)

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