A single-copy subclone, p1-25, from cosmid 1-5, defines a highly polymorphic RFLP on 2q35- >37 [HGM8 no. D2S3]

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SOURCE AND DESCRIPTION OF CLONE: p1-25, a 3.2 kb Sau3A fragment subcloned into pJB8 from cosmid 1-5, isolated from a random human genomic library (Litt and White, 1985).

POLYMORPHISM: PstI identifies an invariant band at 4.2 kb and a multiple allele RFLP with > 10 alleles varying in size from 2.0 to 2.9 kb.

FREQUENCY: Studied 53 unrelated European Caucasians: A(1) 0.057; A(2) 0.094; A(3) 0.094; A(4) 0.179; A(5) 0.038; A(6) 0.226; A(7) 0.236; A(8) 0.057; A(9) 0.009; A(10) 0.009 (in order of decreasing fragment lengths).

CHROMOSOMAL LOCATION: 2q35+37 (Litt et al., 1986).

MENDELIAN INHERITANCE: Co-dominant segregation shown in informative IMR pedigrees 981 and 983.

PROBE AVAILABILITY: Available to collaborators.

OTHER COMMENTS: This is an insertion/deletion RFLP (Litt and White, 1985). 41 of 53 (77%) of unrelated individuals were heterozygous.

REFERENCES: Litt and White, PNAS USA 82:6206-6210 (1985). Litt, Bruns, Sheehy and Magenis, Am. J. Hum. Genet., In Press (1986).

ACKNOWLEDGEMENTS: I thank Ruth Litt for technical help. Supported by NIH grant GM-32500.