Detection of a 3 allele *Ava*II RFLP by a single copy anonymous DNA sequence VC75 [D7S404] localized to chromosome 7Vera Verga*, Maria Dos Santos, Isabelle Marques, Sue Povey¹, Michele Ramsay and Trefor Jenkins

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SOURCE/DESCRIPTION: D7S404 contains a 14.32 kb human insert, isolated from a human *Hae*III/*Alu*I Charon 4A DNA genomic library.

POLYMORPHISM: *Ava*II (G/(AT)CC) (Amersham) identifies a three allele polymorphism with variant fragments of 4.3 (A1), 3.5 (A2) and 3.2 (A3) kb in addition to a number of constant fragments, 2.5; 2.1; 2.0; 1.75; 1.5; 0.86 kb.

FREQUENCY:

Caucasoids (n=77)	A1 .19	A2 .71	A3 .10
Negroids (n=47)	A1 .55	A2 .44	A3 not detected
Bushman (San) (n=46)	A1 .72	A2 .28	A3 not detected

NOT POLYMORPHIC FOR: *Msp*I, *Taq*I, *Bgl*II, *Sst*I, *Stu*I, *Pvu*II, *Pst*I, *Eco*RI, *Bam*HI, *Hind*III, *Hinc*II, *Rsa*I and *Mbo*I in a panel of 6-7 individuals.

CHROMOSOME LOCALIZATION: Assigned to human chromosome 7 using a panel of somatic cell hybrids.

MENDELIAN INHERITANCE: Co-dominant inheritance in two S.A. Caucasoid families (11 individuals). Third allele detected in C.E.P.H. families. C.E.P.H. families typed 1331, 13292, 1340, 13294, 1424, 13291.

PROBE AVAILABILITY: Contact Dr. Vera Verga. Dept Human Genetics, Univ of Michigan Medical School, Med Sci II, 1500 E. Medical Center Dr, Ann Arbor, MI 48109-0618. Also available from ATCC.

OTHER COMMENTS: A 1.35 kb *Eco*RI fragment can be used to detect the polymorphism.

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