An arbitrary single copy human DNA sequence VC63 [D4S129] detects a TaqI RFLP on chromosome 4

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SOURCE/DESCRIPTION: D4S129 contains a 15.6 kb human insert and was isolated from the human HaeIII/AluI DNA Charon 4A DNA library. A 1.3 kb EcoRI fragment has been subcloned into pUC19.

POLYMORPHISM: TaqI (TC/GA) (Boehringer Mannheim) identifies a two-allele polymorphism with fragment sizes 13.0 (A1) and 9.0 (A2) kb.

FREQUENCY:

Caucasoids (n=79)	A1 .17	A2 .83
Negroids (n=39)	A1 .32	A2 .68
Bushman (San) (n=39)	A1 .70	A2 .30

NOT POLYMORPHIC FOR: MspI, BglII, SstI, AvaII, StuI, PvuII, PstI, EcoRI, BamHI, HindIII, HincII, RsaI and MboI in a panel of 6-7 individuals.

CHROMOSOME LOCALIZATION: Assigned to human chromosome 4 using a panel of somatic cell hybrids.

MENDELIAN INHERITANCE: Co-dominant inheritance in 2 Caucasoid S.A. families. C.E.P.H. families typed 1331, 13294, and 1340.

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.

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