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Isolation and mapping of a polymorphic DNA sequence pYNZ23 to chromosome 1 (D1S58)

Y.Nakamura, M.Culver, S.Gillilan, P.O'Connell, M.Leppert, G.M.Lathrop, J.-M.Lalouel and R.White

Howard Hughes Medical Institute, University of Utah School of Medicine, Salt Lake City, UT 84132, USA

SOURCE/DESCRIPTION: A 5.0 kb MspI fragment from cosmid cYNZ23 isolated with the zetaglobin oligonucleotide (1) was subcloned into ClaI site of pBR322.

POLYMORPHISM: MspI detects a 2 allele polymorphism (M1 : 5.0 kb, M2 : 4.5 kb). BamH1, BglII, EcoRI, HindIII, PstI, PvuII, RsaI and TaqI also detect the same polymorphism.

FREQUENCY: Estimated form 78 unrelated Caucasians.

Msp1	M1	: 0.46
	M2	: 0.54

NOT POLYMORPHIC FOR: None detected

CHROMOSOMAL LOCALIZATION: pYNZ23 was assigned to chromosome 1q by multipoint linkage analysis (2) with loci (REN, FY) known to reside in this region(3,4).

MENDELIAN INHERITANCE: Co-dominant segregation was observed in 39 three generation families.

PROBE AVAILABILITY: Contact Y.N.

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

REFERENCES:

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