

Two linked RFLPs at chromosomal band 1p32

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SOURCE/DESCRIPTION: (A) ZIT-32E : a 0.7kb PstI fragment cloned into PGEM plasmid. (B) ZIT-26-4A : a 0.6kb BamHI-Xba fragment cloned into PGEM plasmid. Isolated from human DNA.

POLYMORPHISM: (A) ZIT-32E recognizes a two allele polymorphism with the enzyme PstI (A1 ; 1,3kb - A2 : 0,7kb).
(B) ZIT-264A recognizes a two allele polymorphism with the enzyme BamHI A1 : 2,7kb - A2 : 2,1 kb.

FREQUENCY: estimated from 40 unrelated caucasians
BamHI A1 allele (2,7kb)/PstI A1 allele (1,3kb) = 0.55
BamHI A2 allele (2,1kb)/PstI A2 allele (0,7kb) = 0.45

NOT POLYMORPHIC FOR: EcoRI, HindIII, Xba I.

CHROMOSOMAL LOCALISATION:
Localized to 1p32 by in situ hybridization (1)

MENDelian INHERITANCE:

Co-dominant segregation demonstrated in three informative families

PROBE AVAILABILITY:
Request to D. Mathieu-Mahul at the above address

OTHER COMMENTS:
These two RFLPs are genetically linked to each other.
The two polymorphic sites are separated by 3.8kb

REFERENCE: (1) D. Cherif, O. Bernard, and R. Berger.
Hum. Genet. 81, 358-362.

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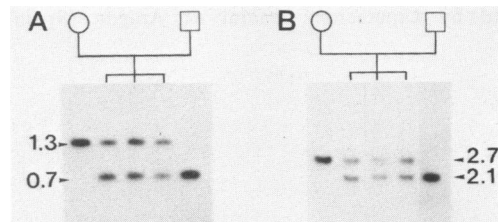


Figure legend : Southern blots of PstI(A) or BamHI (B) digested genomic DNA from the same family, probed with ZIT-32E(A) or with ZIT-264A(B).