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**Isolation and mapping of a polymorphic DNA sequence pEKZ105 on chromosome 2 (D2S55)**

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**SOURCE/DESCRIPTION:** A 3.0 kb RsaI fragment from cosmid EKZ105 was subcloned into the HincII site of pUC18.

**POLYMORPHISM:** RsaI identifies a two allele polymorphism (R1 : 3.0 kb, R2 : 2.6 kb).

**FREQUENCY:** Estimated from 110 unrelated Caucasians.

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|------|-----------|
| RsaI | T1 : 0.46 |
|      | T2 : 0.53 |

**NOT POLYMORPHIC FOR:** BamHI, BglIII, EcoRI, HindIII, PstI, PvuII, RsaI and MspI.

**CHROMOSOMAL LOCALIZATION:** pEKZ105 has been assigned to chromosome 2 by multipoint linkage analysis(1) with loci (CRYG, D2S3) known to span this region(2,3).

**MENDELIAN INHERITANCE:** Co-dominant segregation of the TaqI RFLP was observed in 55 three generation families.

**PROBE AVAILABILITY:** Contact Y.N.

**OTHER COMMENTS:** RFLPs were observed under normal hybridization and wash stringencies.

**REFERENCES:**

1. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
2. S.Povey, N.E. Morton and S.L. Sherman, Cytogenet. Cell Genet. 40:67-106 (1985)
3. G.M. Lathrop et al., abstract submitted to Human Gene Mapping Workshop 9. Cytogenet. Cell Genet., in press