
RFLP for the glucocorticoid receptor (GRL) located at 5q11-5q13

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Source/Description: OB7 is a 4.3 kb cDNA insert isolated from human fibroblast mRNA (Hollenberg et al, 1985).

Polymorphism: BclI identifies a single two allele polymorphism with bands at either 4.5 kb (A1) or 2.3 kb (A2). (see figure)

Frequency: Studied in 50 North American Caucasians
4.5 kb allele 0.55
2.3 kb allele 0.45

Not Polymorphic for EcoRI, BstXI, HindIII, MspI, StuI, EcoRV, BanII, HinfI, XbaI, NciI, PstI, Sau96I, and HinPI with DNA from four to ten unrelated Caucasians.

Chromosomal Localization: Probe localized to 5q11-5q13 using somatic cell hybrids and in situ hybridization (Weinberger et al, 1985).

Mendelian Inheritance: Codominant segregation and Hardy-Weinberg equilibria demonstrated in ten informative families (see figure).

Probe Availability: Contact R. Evans at the Salk Institute.

Other Comments: Additional constant bands are observed with all digests. A faintly hybridizing band in the position of 4.5 kb is also observed in most digests with BclI. Possible RFLP observed with MboII.

Reference: Hollenberg et al, Nature 318:635-641.
Weinberger et al. Cytogenet Cell Genet 40:776, 1985.

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