Ncol RFLP of the human LHRH gene on chromosome 8p

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Source and Description of Clone: A 0.2 kb EcoRI–SacI fragment from human LHRH cDNA cloned into SP64.

Polymorphism: Ncol identifies two alleles:
Allele 1 — absence of 5.5 kb fragment
Allele 2 — presence of 5.5 kb fragment
Constant bands also at 9.5 and 3.2 kb.

Frequencies: 55/62 unrelated Caucasians were of the 1, 1 genotype. Observed heterozygosity = 0.11.
Assuming Hardy-Weinberg equilibrium:
Allele A1 (−5.5 kb): 0.94
Allele A2 (+5.5 kb): 0.06


Chromosomal Localisation: The LHRH gene has been mapped to 8p21-p11.2 (2).

Mendelian Inheritance: Mendelian inheritance was demonstrated in four two-generation families (8 meioses scored).

Probe Availability: Contact A.J. Mason at Genentech, Inc.

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