
A Bgl II polymorphism detected by LDR152 [D19S19]

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SOURCE AND DESCRIPTION: LDR152 is a genomic clone which is tightly linked to the myotonic dystrophy gene. It is a 1.6kb fragment in the Hind III site of pSP64. The polymorphism was demonstrated using LDR152-0.4, which is the 680kb Hind III - Bgl fragment of the original LDR152 insert.

POLYMORPHISM: Bgl II (A|GATCT) identifies two bands with alleles at 16.1 and 9.1kb, as well as 10 constant bands at >23.1, >23.1, 21, 12, 11, 8.6, 7.0, 3.6, 2.5 and 2.1 kb.

FREQUENCY: Studied in 23 unrelated Caucasian individuals:

16.1kb allele 0.32
9.1kb allele 0.68

NOT POLYMORPHIC FOR: BamH I, Ban I, Bgl I, BstN I, Hinc II, Hinf I, Pvu II, Rsa I, Stu I and Taq I with panels of 6 unrelated individuals.

CHROMOSOME LOCATION: 19q13.1 - 13.2 using a panel of human-rodent hybrid cell lines segregating portions of CH19.

MENDELIAN INHERITANCE: Co-dominant segregation demonstrated in two 5-generation families.

PROBE AVAILABILITY: Available for collaborative studies. Contact A.D.Roses.

OTHER COMMENTS: Washing stringency: 2X SSC, 1% SDS (65°C) 30min, followed by 0.1X SSC, 0.1% SDS (65°C).

REFERENCE: R.J. Bartlett et al., *Science*, **235**, 1648-1650 (1987).

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