A new polymorphism for the dystrophin intragenic probe P20 [DXS269] using BstX1

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SOURCE/DESCRIPTION: P20 (DXS269) is a 2.65 kb Pst I insert in pKUN1. The insert consists of 2 genomic Pst I fragments originally separated by 25-40 kb of genomic sequence (1).

POLYMORPHISM: BstX1 identifies a two allele polymorphism p=15kb q=12kb

FREQUENCY: Estimated from 20 unrelated Caucasians p=0.67 q=0.33

NOT POLYMORPHIC FOR: /OTHER ENZYMES TESTED RFLPs also detected using MspI and Eco RV(1). The BstX1 polymorphism is in linkage disequilibrium with the Eco RV polymorphism.

CHROMOSOMAL LOCALISATION: 3' end of dystrophin gene localised to Xp21.

MENDELIAN INHERITANCE: Co-dominant segregation was observed.

PROBE AVAILABILITY: Contact G.J.B. van Ommen (1).

OTHER COMMENTS: This polymorphism will be useful because the band separation is greater than with EcoRV and filters of BstX1 digested DNA previously prepared for use with pERT 87.8 may be used.

REFERENCE: 1. M.C. Wapenaar et al. Genomics 2:101-108(1988)

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