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Allele Frequencies of the HumF13B Str Locus in the Çukurova Region

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Abstract: In this study, the STR system HumF13B polymorphism and forensic efficiency values were investigated in a population sample from the Çukurova region. The F13B phenotypes were analysed using polyacrylamide gel electrophoresis (PAGE) following a polymerase chain reaction (PCR) and were visualised by silver staining. Allele frequencies were calculated by the gene counting method. Forensic efficiency values were estimated using the obtained gene frequencies of F13B. In this population sample, a total of five alleles, 6, 7, 8, 9 and 10 of F13B, were observed. The calculated frequencies of these alleles were as follows: 6=0.0910; 7=0.0045; 8=0.3273; 9=0.2045; 10=0.3727. In the Çukurova region, the forensic efficiency values H-obs, MEC, pM and pD of F13B locus were estimated to be 0.69092, 0.44507, 0.14032 and 0.85968 respectively. According to these values, the HumF13B STR locus may be useful in criminal and paternity cases in the Çukurova region.

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Key Words: DNA, STRs, HumF13B, Allele frequencies, Turkey

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