An anonymous single-copy clone, p55-B1, from chromosome 17 identifies a TaqI RFLP [HGM9 no. D17S86]

M.Litt, A.Buder, H.Vissing¹, P.van Tuinen² and D.H.Ledbetter²

Oregon Health Sciences University, Portland, OR and ¹SUNY Downstate Medical Center, Brooklyn, NY and ²Baylor College of Medicine, Houston, TX, USA

SOURCE AND DESCRIPTION OF CLONE: Cosmid 55 was isolated from a chromosome 17 specific genomic library. p55-B1 is a single copy 470 bp Sau 3A fragment of cosmid 55 subcloned into the BamHI site of pUC18.

POLYMORPHISMS: TaqI identifies a 3-allele RFLP with A1=3.2, A2=3.0, A3=2.5 kb. Constant bands are seen with sizes 7.5, 4.8, 4.1 and 2.0 kb.

FREQUENCIES: Studied 41 European Caucasians. A1=.84, A2=.075, A3=.085. PIC= .26 .

NOT POLYMORPHIC WITH: EcoRI, PstI, SacI, BstEII, RsaI

CHROMOSOMAL LOCALIZATION: Probe localized to 17p13.1-q21, by use of somatic cell hybrid panel.

MENDELIAN INHERITANCE: Codominant Mendelian inheritance was observed in Utah families K1329, K1331, K1340, K1341, and K1345, with a total of 46 children.

OTHER COMMENTS: The whole cosmid 55 reveals an RFLP with PvuII, but this locus has not been characterized with respect to allele frequencies or Mendelian inheritance.

PROBE AVAILABILITY: Now available for collaboration: write M. Litt. Will be available from ATCC.

REFERENCE: Vissing H, Grosveld F, Solomon E, Moore G, Lench N, Shennan N, Williamson R (1987) Nucleic Acid Research 15:1363-1376.

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