HincII and KpnI RFLPs for laminin B1 (LAMB1) gene on chromosome 7

H.H.Ardinger, K.M.Rose, J.C.Murray and Y.Yamada¹

Department of Pediatrics, University of Iowa, Iowa City, IA 52242 and ¹National Institute of Dental Research, Bethesda, MD, USA

SOURCE/DESCRIPTION: p1236 was isolated from a human endothelial cell cDNA library in λ gt11. It is a 1.2 Kb insert subcloned into the EcoRI site of pUC19.

POLYMORPHISM: HincII identifies a two allele polymorphism with bands of 7 or 5.8 and 1.2 Kb. KpnI identifies a two allele polymorphism with bands of 40 or 25 and 15 Kb.

FREQUENCY: Studied in 53 (HincII) and 19 (KpnI) unrelated Caucasians.

HincII	7 Kb	.37	KpnI	40 Kb	.55
	5.8,1.2 Kb	.63		25,15 Kb	.45

NOT POLYMORPHIC FOR: AccI, AvaI, AvaII, BclI, BglI, Bsp1286, DdeI, Eco0109, HindIII, MspI, PstI, PvuII, RsaI, SacI, Sau3AI, SspI, StuI, StyI, TaqI, XbaI, XhoI.

CHROMOSOMAL LOCALIZATION: Probe localized to 7q31 using in situ hybridization (Jaye et al., 1987)

MENDELIAN INHERITANCE: Codominant segregation shown in 3 (HincII) and 7(KpnI) families

PROBE AVAILABILITY: Contact Y. Yamada

OTHER COMMENTS: A rare polymorphism with BamHI was observed in one person. Linkage disequilibrium appears to be present between HincII and KpnI alleles. A double digest of SacI with KpnI allows better visualization of the KpnI bands.

REFERENCES: Jaye, M. et al (1987) Am J Hum Genet 41:605-615.

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