A BsaBI RFLP detected for probe pML34 [D15S9] on chromosome 15q

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Source and Description of Probe: pML34, a 6.2 kb fragment subcloned into pBR322 (1,2), originally isolated from a flow-sorted library enriched for proximal 15q sequences.

Polymorphism: BsaBI reveals a two-allele polymorphism with band sizes 6.0 kb, 4.5 kb, and constant fragment at 5.2 kb.

Allele Frequency: Estimated from 32 unrelated Japanese.

B1: 6.0 kb allele: 0.16

B2: 4.5 kb allele: 0.84

Not Polymorphic For: DraI, NciI, Eco0109I (studied in 8 unrelated individuals).

Chromosomal Localization: pML34 has been assigned to 15q11.2-15q12, a segment missing in one #15 chromosome in 60% of Prader-Willi syndrome patients studied (1-3).

Mendelian Inheritance: Codominant segregation observed in one family with Prader-Willi syndrome and in 2 unrelated families.

Probe Availability: Available from ATCC.

References: 1) Donlon, T.A. *et al.* (1986) *Proc. Natl. Acad. Sci. USA* **83**, 4408-4412. 2) Tantravahi, U. *et al.* (1989) *Am. J. Med. Genet.* **33**, 78-87. 3) Hamabe, J. *et al.* (1991) *Am. J. Med. Genet.* in press.

pDL32B (D12S7) detects a 2-allele PstI polymorphism

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Description: pDL32B is a 3.2 kb HindIII fragment cloned into pBR322 and was localized to chromosome 12, region 12q14-q24.1. This clone detects a 4-allelic TaqI polymorphism (A1-6.8, A2-5.1, A3-4.1 + 2.7, A4-2.7 + 2.4 kb) with a PIC value of 0.53 (1). It was also reported that pDL32B detects a high frequency polymorphism with PstI. (2). No details concerning the PstI polymorphism were given in the original report.

Polymorphism: We have used clone pDL32B to detect TaqI and PstI polymorphisms in 63 individuals from Madras, South India. With PstI, pDL32B detects two variable fragments (B1 = 12.0 kb and B2 = 4.5 kb) and a constant fragment 1.0 kb.

Gene Frequency:

TaqI	PstI
A1 — 0.07	B1 = 0.41
A2 — 0.32	B2 = 0.59
A3 — 0.50	No. of individuals = 61
A4 — 0.11	PIC 0.37
No. of individuals = 63	
PIC = 0.57	

Mendelian Inheritance: Confirmed in 33 nuclear families.

Probe Availability: ATCC.

References: 1) Human Gene Mapping 10 (1989): Tenth International Workshop in Human Gene Mapping. *Cytogenet. Cell Genet.* **51**, 1-1148. 2) Tsui, L.C. *et al.* (1985) *Cytogenet. Cell Genet.* **40**, 764.

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