Two TaqI RFLPs at the GLUT2 locus in French caucasian population

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Source/Description: phTL3/BS is a cDNA clone containing a 2.4 SalI insert which encodes the liver type glucose transporter (kindly provided by G.Bell).

Polymorphism: TaqI identifies two 2-allele restriction fragment length polymorphisms with fragment sizes 21.0 kb (N1) or 12.0 kb (N2), and 7.0 kb (O1) or 3.9 + 3.1 (O2). Constant bands of 2.5 and 1.6 kb are also seen.

Frequency: Studied in 21 normal unrelated European Caucasian individuals (1).

Allele	Allele size	Allele Frequency
N1	(21.0 kb)	0.14
N2	(12.0 kb)	0.86
O1	(7.0 kb)	0.17
O2	(3.9 + 3.1 kb)	0.83

Chromosomal Localization: The q26.1-q26.3 region of chromosome 3 (1).

Mendelian Inheritance: Codominant inheritance was shown in 21 informative meioses.

Other Comments: The O polymorphism is different from the one described in White American population with cDNA probes similar to the phLT3/BS probe (2). Furthermore, the 3.9 kb fragment of the O polymorphism has not been described in Black Americans (2).

Probe Availability: Contact Graeme I. Bell, Howard Hughes Medical Institute, University of Chicago.

Acknowledgement: This work was supported by the Caisse Nationale de Prévoyance (CNP).

References: 1) Fukumoto, H. *et al.* (1989) *Proc. Natl. Acad. Sci. USA* **85**, 5434–5438. 2) Matsutani, A. *et al.* (1990) *Diabetes* **39**, 1534–1542.

A new polymorphic probe on chromosome 6q: p327A (D6S93)

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Source/Description: p327A (D6S93) is a 4.4 kb HindIII fragment isolated from the LL06NS01 human chromosome 6 library (1).

Polymorphism: Pst-I digestion of genomic DNA and hybridization with the probe detects a two allele polymorphism: 13.5 kb (A1) and 9 + 4.4 kb (A2).

Frequency: Estimated from 34 chromosomes from unrelated persons.

A1: 0.44

A2: 0.56

Frequency of Heterozygosity: 0.65.

Not Polymorphic For: PvuII, Taq-I, EcoRI and Msp-I.

Chromosomal Location: Using a panel of somatic cell hybrids, the probe was shown to map to human chromosome 6. Further, the probe was localized to the 6q11–6q12 region by *in situ* hybridization (1).

Mendelian Inheritance: Mendelian inheritance has been demonstrated in a two generation family.

Probe Availability: See reference 1.

Reference: 1) Golubic, M., Mattei, M., van Cong, N., Figueroa, F. and Klein, J. (1991) *Genomics* **9**, 338–341.

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