Stu I RFLP at the human Hep G2/Erythrocyte glucose transporter (GLUT) gene locus

Shurui Li, Ray Oelbaum, Marco Baroni, Joseph Stocks and David Galton

Lipid Laboratory, St Bartholomew's Hospital, London EC1A 7BE, UK

SOURCE/DESCRIPTION

A 4.3 b Apa-I fragment of the human genomic Hep G2/Erythrocyte glucose transporter gene PEI clone encoding 12 b of the region from intron 2 to exon 4 (1).

POLYMORPHISM

Stu I identifies a two allele polymorphism with bands at 3.2 b and 2.6 b. Invariant bands at 5.4 b and 1.6 b.

FREQUENCY

Studied in 28 Caucasians.

3.2 b allele = 0.23 2.6 b allele = 0.77

NOT POLYMORPHIC FOR

Apa I, Bgl II, Pst I, Sst I and Xmn I from 10 unrelated individuals.

CHROMOSOMAL LOCALISATION

Assigned to 1p 33 (2)

MENDELIAN INHERITANCE

Co-dominant inheritance demonstrated in three 2 generation families.

PROBE AVAILABILITY

Requests for probe to Dr M Mueckler at Dept of Cell Biology and Physiology, Washington University, PO Box 8101, 660 South Euclid Avenue St Louis, Missouri 63110 USA.

REFERENCE

1. Mueckler M (1988). Personal communication.
2. Shows TB et al (1987). Diabetes 36: 546 - 549.

ACKNOWLEDGEMENTS

British Diabetic Association, Wellcome Trust.