Polymorphism at the FES locus detected by PFGE

Klaus Koch, M.Jücker, M.Michels, W.J.M.van de Ven[1] and H.Tesch
I. Med. Klinik, Universität Köln, J.Stelzmann Straße 9, D-5000 Köln 41, FRG and [1]Universitaire Ziekenhuisen, Leuven, Herestraat 49, B-3000 Leuven, Belgium

Source/Description: pFES.95 is a 0.95 kb EcoRI cDNA fragment containing sequences of exons 15−19 of the human c-fes gene, subcloned in pUC18 (1).

Polymorphism: NruI digestion yields two bands of 550 and 500 kb.

Frequency: Studied in 15 European Caucasians:
500 kb allele: 0.46
550 kb allele: 0.54
Heterozygosity frequency.

Not Polymorphic For: BamHI, BglII, EcoRI, KpnI, NotI.

Chromosomal Localisation: 15q25-qter (2).

Mendelian Inheritance: Codominant segregation has been shown in two families.

Probe Availability: Contact W.J.M. van de Ven.

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References: 1) Roebroek *et al.* (1986) *Mol. Biol. Rep.* **11**, 117. 2)Harper *et al.* (1983) *Nature* **304**, 169−171.

A BstXI polymorphism at the D5S116 locus

S.Cottrell and L.Varesco[1]
Director's Laboratory and [1]Molecular Analysis of Mammalian Mutation Laboratory, Imperial Cancer Research Fund, Lincoln's Inn Fields, London WC2A 3PX, UK

Source/Description: Phage ECB20 (D5S116) was isolated from a library of end clones of >800 kb BssHII fragments (1).

Polymorphism: BstXI identifies a two allele polymorphism:
A1: 16.8 kb
A2: 13.0 kb
There are two invariant bands at 6.0 and 3.3 kb.

Frequency: Estimated from 18 unrelated Caucasians.
A1: 0.36 PIC = 0.35
A2: 0.64

Not Polymorphic For: EcoRI, HindIII, MspI, BglII, PvuII, TaqI, PstI, all tested on a panel of 6 unrelated individuals.

Chromosomal Localisation: 5q11-qter by somatic cell hybrids PN/TS-1 (1) and HHW213 (2).

Mendelian Inheritance: Codominant segregation was observed in 5 families.

Probe Availability: Available from S.Cottrell.

Other Comments: This probe contains repetitive sequences and should be used in the presence of an excess of total human DNA in the hybridisation mixture.

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References: 1) Varesco,L. *et al.* (1989) *Proc. Natl. Acad. Sci. USA* **86**, 10118−10122. 2) Carlock,L.R. and Wasmuth,J.J. (1985) *Somat. Cell. Mol. Genet.* **11**, 267−276.