SstI polymorphism revealed by anonymous probe cpl 2.6 [D5S89] which maps to 5q21-5q31

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Source and Description of Clone:

A genomic library was constructed of partially digested Sau3A fragments of DNA from the human promyelocytic leukemia cell line HL60 in the lambda phage EMBL3A. A single copy, 2.6 kb HindIII fragment was isolated from the recombinant phage, cloned into pUC19, and designated cpl 2.6.

Polymorphism:

cpl 2.6 identifies one invariant band for SstI-digested human DNAs at 1.1 kb and a single, two-allele polymorphism with bands at 2.6 (allele S2) and/or 3.5 kb (allele S1).

Frequency:

As determined from the SstI digest of DNAs from 68 human cell lines from unrelated North American Caucasians:

3.5 kb band (allele S1)	0.70
2.6 kb band (allele S2)	0.30

Not Polymorphic For:

PstI, RsaI, AccI.

Chromosomal Location:

5q21-5q31, as determined by somatic cell hybrid analysis and chromosomal in situ hybridization.

Mendelian Inheritance:

Codominant segregation of the RFLP was observed in three two generation families.

Probe Availability:

Soon to be available, upon request, from the American Type Culture Collection, 12301 Parklawn Drive, Rockville, MD 20852, USA.

Acknowledgements:

Supported by NIH grant CA 25875.

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