Three RFLPs at the D8S49 locus

Bernhard Horsthemke*, Ruth Burdick and Hermann-Josef Lüdecke

Institut für Humangenetik, Universitätsklinikum Essen,
Hufelandstrasse 55, D-4300 Essen 1, FRG

Source/Description: L40 is a 134 bp single copy genomic DNA fragment cloned into pUC13. The clone was isolated by microdissection and microcloning of the Langer-Giedion syndrome chromosome region (LGCR).

Polymorphisms: L40 identifies three two-allele polymorphisms:

SacI	23.0 kb A1	AspI	8.0 kb B1
	30.0 kb A2		13.5 kb B2
BclI	1.9 kb C1		
	15.0 kb C2		

Two constant bands of 3.5 kb and 1.6 kb are seen in the AspI digest.

Frequencies:

Allele	Frequency	Number of Chromosomes
A1	0.69	32
A2	0.31	
B1	0.67	30
B2	0.33	
C1	0.63	24
C2	0.37	

Not Polymorphic For: AccI, Asp700, BanI, BanII, BamHI, BglI, BglII, BstNI, BstXI, DraI, EcoRI, EcoRV, HindII, HindIII, HinfI, HgiAI, HpaI, KpnI, MspI, NciI, PstI, PvuII, RsaI, Sau96I, StuI, TaqI, XbaI in a screen of six unrelated Caucasian individuals.

Chromosomal Localization: Mapped to 8q23.2-q24.11 by quantitative Southern blot hybridization of DNA from patients with Langer-Giedion syndrome that have cytogenetically visible deletions.

Mendelian Inheritance: Autosomal codominant segregation was observed in two large Caucasian families.

Probe Availability: Available for collaboration: contact B.Horsthemke.

Other Comments: Insert can be released from the vector by EcoRI digestion.

Acknowledgements: Supported by the Deutsche Forschungsgemeinschaft.

Reference: Lüdecke *et al.* (1989) *Nature* **338**, 348–350.

* To whom correspondence should be addressed

Two RFLPs at the D8S50 locus

Bernhard Horsthemke*, Ruth Burdick and Hermann-Josef Lüdecke

Institut für Humangenetik, Universitätsklinikum Essen,
Hufelandstrasse 55, D-4300 Essen 1, FRG

Source/Description: L47 is a 200 bp single copy genomic DNA fragment cloned into pUC13. The clone was isolated by microdissection and microcloning of the Langer-Giedion syndrome chromosome region (LGCR).

Polymorphisms: L47 identifies two two-allele polymorphisms:

BanII	9.6 kb A1	MspI	18.0 kb B1
	7.4 kb A2		13.5 kb B2

Frequencies: Estimated from 30 chromosomes

Allele	Frequency
A1	0.9
A2	0.1
B1	0.9
B2	0.1

Not Polymorphic For: AccI, AvaII, AspI, Asp700, BanI, BamHI, BclI, BglI, BglII, BstNI, BstXI, DraI, EcoRI, EcoRV, HindII, HindIII, HinfI, HgiAI, HpaI, KpnI, NciI, PstI, PvuII, RsaI, SacI, Sau96I, StuI, TaqI, XbaI in a screen of six unrelated Caucasian individuals.

Chromosomal Localization: Mapped to 8q23.2-q24.11 by quantitative Southern blot hybridization of DNA from patients with Langer-Giedion syndrome that have cytogenetically visible deletions.

Mendelian Inheritance: Autosomal codominant segregation was observed in two large Caucasian families.

Probe Availability: Available for collaboration: contact B.Horsthemke.

Other Comments: Insert can be released from the vector by EcoRI digestion.

Acknowledgements: Supported by the Deutsche Forschungsgemeinschaft.

Reference: Lüdecke *et al.* (1989) *Nature* **338**, 348–350.

* To whom correspondence should be addressed