

RFLPs for epidermal growth factor (EGF), a single copy sequence at 4q25-4q27J.C.Murray, C.R.DeHaven and G.I.Bell⁺Department of Pediatrics, University of Iowa, Iowa City, IA 52242 and ⁺Chiron Corporation, 4560 Horton Street, Emeryville, CA 94608, USA

SOURCE/DESCRIPTION: phEGF 121 contains a 555 bp EcoRI fragment that encodes the 5' untranslated region and amino acids 1-38 of the human EGF precursor (Bell *et al.*). The vector is pUC9.

POLYMORPHISM: HincII identifies a two allele polymorphism with bands of 8.0 or 4.5 kb (Figure). SacI identifies a two allele polymorphism with bands of 12.0 and 11.0 kb.

FREQUENCY: Studied in 50 Caucasoids

HincII	8.0 kb	0.60	SacI	12.0 kb	0.94
	4.5 kb	0.40		11.0 kb	0.06

NOT POLYMORPHIC FOR: AvaII, BamHI, BclI, BglII, EcoRI, EcoRV, HaeIII, HindIII, HinfI, KpnI, MspI, PstI, PvuII, RsaI, TaqI, XbaI.

CHROMOSOMAL LOCALISATION: Probe localised to 4q25-4q27 using in situ hybridiation (Morton *et al.*, 1985).

MENDELIAN INHERITANCE: Co-dominant segregation shown in 14 families including CEPH families 104, 1331, 1340, 1341, 1344, 1362, 1413, 1420, 1421, 13292, 13293.

PROBE AVAILABILITY: Contact G.I. Bell.

OTHER COMMENTS: Linkage disequilibrium exists between HincII and SacI.

REFERENCE: Bell *et al.*, (manuscript in preparation).
Morton *et al.*, (1985) *Cyto. and Cell. Genet.*
40:702-703.

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