

BamHI RFLP for the GHRHR locus

Y.Cao, J.K.Wagner, A.Eblé, P.Hindmarsh¹ and P.E.Mullis*

University of Bern, Department of Paediatrics, Inselspital, CH-3010 Bern, Switzerland and ¹Cobbold Laboratories, The Middlesex Hospital, London W1N 8AA, UK

Source/Description: HPR3Z is a 1.6 kb human growth hormone releasing hormone (GHRH) receptor cDNA clone described by Mayo (1) inserted into pGEM7Z. Sense: cut with *HindIII*, use SP6; antisense: cut *BamHI*, use T7 polymerase.

Polymorphism: *BamHI* identifies a two allele polymorphism with bands either at 2.6 kb (A1) or 2.4 kb (A2) and an invariant band at 8.5 kb.

Frequency: Studied in 48 unrelated healthy Caucasians.

A1 = 0.72

A2 = 0.28

Calculated heterozygosity = .40.

Not Polymorphic For: *EcoRI*, *PvuII*, *PstI*, *BglI*, *BglII*, *BclI*, *HindIII*, *HincII*, *MspI* and *FocI*.

Chromosomal Localisation: Human GHRH receptor (GHRHR) has been mapped to chromosome 7p14 (2).

Mendelian Inheritance: Co-dominant inheritance of alleles A1 and A2 was observed in 29 individuals from 5 families.

Probe Availability: Probe available on request from K.E.Mayo, Department of Biochemistry, Molecular Biology, and Cell Biology, Northwestern University, Evanston, IL 60208, USA.

Acknowledgements: This work was supported by grants from Swiss National Science Foundation (32-33535.92) and Pharmacia (Switzerland). We thank K.E.Mayo for supplying the HPR3Z probe.

References: 1) Mayo, K.E. (1992) *Mol. Endocrinol.* **6**, 1734–1744. 2) Gaylinn, B.G., von Kap-Herr, C., Golden, W.L. and Thorner, M.O. (1994) *Genomics* **19**, 193–195.

* To whom correspondence should be addressed