RFLP for the human pepsinogen C gene (PGC)

Takeshi Azuma^{1,2}, Gerard Pals^{1,3} and R.Thomas Taggart^{1,*}

¹Department of Molecular Biology and Genetics, and Molecular Biology Center, Wayne State University School of Medicine, 540 East Canfield, Detroit, MI 48201, USA, ²Department of Preventive Medicine, Kyoto Prefectural University of Medicine, Kyoto, Japan and ³Departments of Human Genetics and Gastroenterology, Free University, Amsterdam, The Netherlands

SOURCE/DESCRIPTION: PGC 301 is a 1224 bp cDNA clone containing exons 2-9 of the human pepsinogen C (progastricsin) coding sequence (1).

POLYMORPHISM: 100 bp deletion/insertion polymorphism is observed with five restriction endonucleases; BamHI, EcoRI, MstII, PstI, and SacI. The same RFLP is observed with these enzymes. The polymorphic region is located between exons 7 and 8.

FREQUENCY: Estimated from 40 unrelated Caucasians.
Large fragment allele 82.5%
Small fragment allele 17.5%

NOT POLYMORPHIC FOR: AvaI, BglI, MspI, PvuII, RsaI, Sau3AI, and TaqI

CHROMOSOMAL LOCALIZATION: PGC gene has been assigned to 6p21.1-pter by somatic cell hybrids (1).

MENDELIAN INHERITANCE: Demonstrated in two families.

PROBE AVAILABILITY: Contact R. T. Taggart.

OTHER COMMENTS: Low background at high stringency wash conditions (0.1 X SSC, 0.05% SDS).

REFERENCE: 1. Taggart, R. T., Mohandas, T. K., and Bell, G. I.. Cytogenet. Cell Genet. 46:701-702, 1987.

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*To whom correspondence should be addressed