The α chain of human propionyl CoA carboxylase (PCCA) (mapped to chromosome 13) detects an RFLP with XmnI

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SOURCE/DESCRIPTION: Probe pPCC9-5 is a 2.0 BamHI fragment in pcD (1) that contains cDNA for the alpha chain of human propionyl CoA carboxylase.

POLYMORPHISM: A two-allele polymorphism is detected with XmnI (GAANN/NN TTC) with fragments of 13kb and 9.5kb. Many constant bands are observed (21kb, 6.2kb, 5.0kb, 3.7kb, 3.6kb, 3.1kb, 1.6kb, 1.4kb and 1.3kb).

NOT POLYMORPHIC FOR: AccI, AluI, BamHI, BanII, BclI, BglI, BglIII, BspI286, BstNI, DdeI, DraI, EcoRI, EcoRV, HgaI, HphI, MboII, MspI, PvuII, PstI, ScaI, SstI, StuI, StyI, TaqI and XbaI.

FREQUENCY: Studied 74 unrelated Caucasoids:
13kb allele: 0.61
9.5kb allele: 0.39

CHROMOSOMAL LOCALISATION: To chromosome 13 (1) with a panel of somatic mouse-human hybrids.

MENDELIAN INHERITANCE: Co-dominant segregation was observed in five families (67 individuals)

PROBE AVAILABILITY: Through the American Type Culture Collection

COMMENTS: This polymorphism is not the same as the HindIII RFLP previously described for PCCA.

ACKNOWLEDGEMENTS: National Institute of Health grant GM28428

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