Volume 15 Number 22 1987 Nucleic Acids Research

Multiple RFLPs at the human apolipoprotein D (APOD) locus

Dennis Drayna, John D.Scott and Richard Lawn

Genentech, Inc., 460 Point San Bruno Blvd, South San Francisco, CA 94080, USA

SOURCE/DESCRIPTION: 698 base pair cDNA clone designated pAPOD.8, containing 61 b.p. of 5' untranslated sequence, 567 b.p. representing the complete coding sequence, and 70 b.p. of 3' untranslated sequence (1).
POLYMORPHISMS:
Msp I 2 alleles 2.20 and 2.15 kb
MspI constant bands at 2.9, 1.3, and .7 kb

Taq I 2 alleles 2.2 kb and 2.7 kb
Taq I constant band at 3.2

FREQUENCIES:

Msp I	2.20 kb	.39	Determined in 32 unrelated individuals
	2.15 kb	.61	
TaqI	2.7 kb	.82	Determined in 103 unrelated individuals
	2.2 kb	.18	

NOT POLYMORPHIC FOR: BclI, BglII, BstEII, EcoRI, EcoRV, HindIII, PstI, PvuII, SacI, StyI, XbaI

CHROMOSOMAL LOCALISATION: Human chromosome 3 p14.2-qter. (2)

MENDELIAN INHERITANCE: Codominant inheritance of both polymorphisms in 3 families, a total of 15 individuals.

PROBE AVAILABILITY: Available for collaboration.
OTHER COMMENTS: A large degree of linkage equilibrium exists between these two polymorphisms.
REFERENCES: 1. Drayna et al. J. Biol. Chem. 261: 16535-16539 1986.
2. Drayna et al. DNA, 6:199-204 1987.
ACKNOWLEDGEMENTS: We thank Dr. Steven Sommer, Mayo Clinic, for providing some of the family DNA's used to examine the inheritance of these polymorphisms.
FIGURE: Polymorphisms revealed with ApoD probe. Lanes 1-3, MspI, Lanes 4-6, TaqI. Arrows indicate polymorphic bands.