

## A new XmnI polymorphism for the DMD probe PERT 87-8

I.D.Haggerty, J.Keen, A.Curtis\* and S.S.Bhattacharya  
Department of Human Genetics, University of Newcastle  
upon Tyne, 19/20 Claremont Place, Newcastle upon  
Tyne NE2 4AA, UK

**Source/Description:** PERT 87-8 is a 1.3 kb intronic fragment from the DMD gene which has been cloned into the XbaI site of pUC18 (1).

**Polymorphism:** XmnI identifies a 2 allele polymorphism  
A1: 9.2 kb A2: 8.8 kb

**Frequency:** Estimated from a total of 130 chromosomes from an unrelated sample of British caucasians.

XmnI AA1: 0.35 AA2: 0.65

**Chromosomal Location:** PERT 87-8 is a subclone of DXS164 which has been assigned to Xp21.2 (1).

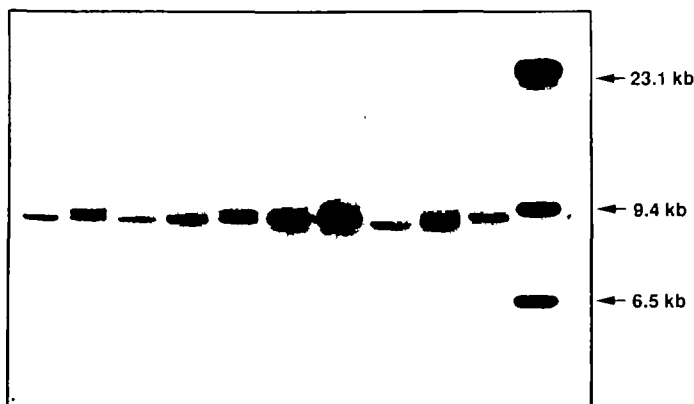
**Mendelian Inheritance:** Co-dominant segregation in three 2-generation families.

**Probe Availability:** Contact L.M. Kunkel.

**Other Comments:** The polymorphism is observed under standard hybridisation and wash conditions.

**Acknowledgements:** We thank Dr. Kunkel for use of the PERT 87-8 probe.

**Reference:** 1) Kunkel, L.M., Monaco, A.P., Middlesworth, W., Ochs, H.D. and Latt, S.A. (1985) *Proc. Natl. Acad. Sci. USA* **82**, 4778-4782.



\* To whom correspondence should be addressed

## Three RFLPs at the D8S586 locus

M.Iizuka, M.Shiraishi, K.Hayashi and T.Sekiya\*  
Oncogene Division, National Cancer Center Research  
Institute, 1-1, Tsukiji 5-Chome, Chuo-ku, Tokyo 104,  
Japan

**Source/Description:** Probe pNCO907 contains a 500-bp *PstI* fragment of pNCO901 inserted into pUC19 as described previously (1).

**Polymorphism:** *EcoRI* detects a two allele polymorphism (A1:4.8 kb; A2:1.3 kb). *SphI* detects a two allele polymorphism (B1: 22.0 kb; B2: 7.0 kb). *TaqI* detects a four allele polymorphism (C1:11.0 kb; C2:10.0 kb; C3:8.5 kb; C4:6.7 kb).

**Frequency:** Studied in unrelated Japanese.

A1:0.50 A2:0.50 (33 individuals)  
B1:0.21 B2:0.79 (17 individuals)  
C1:0.08 C2:0.42 C3:0.09 C4:0.41 (40 individuals)

**Not Polymorphic For:** *PvuII*, *MspI*, *RsaI*, or *BamHI* with DNA from five unrelated individuals.

**Chromosomal Localization:** Assigned to chromosome 8 using a panel of human-mouse somatic cell hybrids (1).

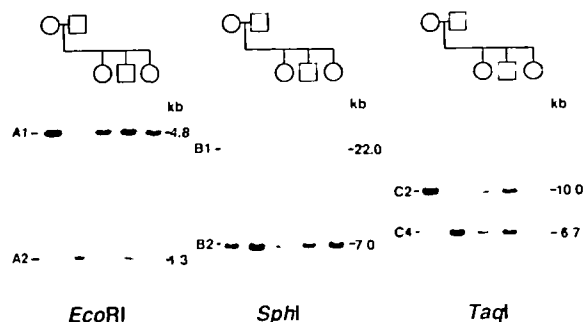
**Mendelian Inheritance:** Codominant, independent, segregation of the allele systems A, B and C was observed in one informative family (Figure).

**Probe Availability:** Available from M. Iizuka.

**Other Comments:** This probe is co-amplified with *MYC* in COLO320 DM cells but not in HL60 cells (1). The hybridization condition should be highly stringent.

**Acknowledgements:** We thank M. Orita and H. Iwahana for providing human materials. This work was supported in part by a Grant-in-Aid from the Ministry of Health and Welfare for a Comprehensive 10-Year Strategy for Cancer Control, Japan, a Grant-in-Aid for Cancer Research from the Ministry of Education, Science and Culture, and a grant from the Special Coordination Fund of the Science and Technology Agency of Japan. M.I. is a recipient of a Research Resident Fellowship from the Foundation for Promotion of Cancer Research.

**Reference:** 1) Iizuka, M. et al. (1990) *Cancer Res.* **50**, 3345-3350.



\* To whom correspondence should be addressed