

**Strain polymorphism and tentative mapping of mouse ornithine decarboxylase**

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**SOURCE/DESCRIPTION**The plasmid pOD48 contains a 1.6 kb of a ornithine decarboxylase cDNA<sup>1</sup>.**POLYMORPHISM**

Constant Eco RI bands were found at 3.6, 4.4, 5.5, 6.9, 8.5, 11.5, 13.5 and 19 kb. Variant bands were found at 4.7 and 6.2 kb.

**FREQUENCY**

The 4.7 kb band is present in BALB/c, not in C57BL/6, DBA/2 and C3Hf, and segregate in CxB recombinant inbred (RI) strains. The 6.2 kb band is present in DBA/2 and C3Hf; these two strains can be distinct by the 4.4 kb band which is present as a doublet in C3Hf. Hind III digestion (not shown) revealed a 12.5 kb band which is present only in DBA/2 DNA.

**NOT POLYMORPHIC FOR -----****CHROMOSOMAL LOCALIZATION**Not reported. CxB recombinant inbred strains have been used to follow the inheritance of the BALB/c 4.7 kb band. The presence of this band only in CxBG and CxBJ strains delineates the strain distribution pattern BBCBCCB identical for those of VH 3660<sup>2</sup> (not shown) and of Igh-c gene which has been localized in the distal portion of chromosome 12 (P. D'Eustachio, personal communication).**MENDELIAN INHERITANCE**

Segregation of the 4.7 kb BALB/c band were followed among the CxB RI strains.

**PROBE AVAILABILITY**

The probe was obtained from Dr. P. Coffino (University of California, San Francisco).

**REFERENCES**

- 1) McConlogue L. et al. Proc. Natl. Acad. Sci. USA (1984) 81: 540-544.
- 2) Brodeur P.M. and Riblet R. Eur. J. Immunol. (1984) 14: 922-930.

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