An HinfI polymorphism at the MET locus in inbred mice

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SOURCE AND DESCRIPTION OF CLONE: pmet G, a 2.0 kb PstI fragment subcloned into pBR322 (Park et al. 1986), from the human met oncogene originally cloned by Cooper et al. (1984). The subclone was obtained from Michael Dean.

POLYMORPHISMS: HinfI identifies a 0.55 kb fragment in the inbred mouse strains: DBA/2J, A/J, NZW/lacJ, CBA/J, PL/J, SWR/J, AKR/J, C57/LJ, C3H/HeJ, Sec/ReJ, and SM/J; and a 0.58 kb fragment in C57B1/6J, C58/J, and LP/J.

NOT POLYMORPHIC FOR: HspI, PvuII, HincII, and PstI.

CHROMOSOMAL LOCALIZATION: Human 7 (Cooper et al, 1984); and mouse 6 (Dean et al, 1987).

PROBE AVAILABILITY: Requests for probes to Michael Dean at NCI Frederick Cancer Research Facility, Frederick, MD 21701.

OTHER COMMENTS: Wash at stringency of 2xSSC at 65° C.

REFERENCES: M. Park, M. Dean, C. Cooper, M. Schmidt, S. O'Brien, D. Blair, and G. Vande Woude. Mechanisms of met oncogene activation. *Cell* 45: 895-904 (1986). C. Cooper, M. Park, D. Blair, M. Tainsky, K. Huebner, C. Croce, and G. VandeWoude. Molecular cloning of a new transforming gene from a chemically transformed cell line. *Nature* 311: 29-33 (1984). M. Dean, C. Kozak, J. Robbins, R. Callahan, S. O'Brien, and G. Vande Woude. Chromosomal localization of the met proto-oncogene in mouse and cat genome. *Genomics* 1: 167-173 (1987).

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Figure. Autoradiogram of a Southern blot probed with the 2.0 PstI insert from pmet G. Lane (a), HinfI digested DNA from CBA/J. Lane (b), HinfI digested DNA from C57BL/J. Fragment sizes indicated in kilobases.