## HindIII polymorphism in the human c-sis proto-oncogene

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<u>SOURCE AND DESCRIPTION</u> OF CLONE: The 2.0 kb BamHl restriction fragment corresponding to a cDNA insert encoding the human c-sis PDGF A chain and nucleotide sequences homologous to the v-sis gene was isolated from plasmid pSM-1 (1). An identical polymorphism was noted using the 1.2 kb PstI fragment or the 1.0 kb PstI/XbaI fragment isolated from the v-sis sequence subcloned in the plasmid pV-sis (2).

<u>POLYMORPHISM:</u> HindIII identifies a single bi-allelic polymorphism with bands at 22.6 kb and 19.4 kb.

FREQUENCY: Studied in 59 caucasian individuals.

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indIII	22.6 kb	0.57
	19.4 kb	0.43

NOT POLYMORPHIC FOR: Pst1, BamHI, HindII, EcoRI

CHROMOSOME LOCATION: HGM 8 Map 22q12.3-13.1

MENDELIAN INHERITANCE: Co-dominant segregation demonstrated in 1 family (see fig. below).

<u>PROBE AVAILABILITY:</u> Probes are commercially available through the American Type Culture Collection, 12301 Parklawn Drive, Rockville MD, 20852. Request bacterial host strain numbers 41033 (pV-sis) and 57051 (pSM-1).

<u>OTHER COMMENTS</u>: This polymorphism is not easily detected unless the restricted DNA is separated on 0.6-0.8% agarose gels. Resolution was optimal if gels were run until the bromophenol blue tracking dye had migrated 14 cm from the origin and Southern blotting was performed under alkaline conditions.

<u>REFERENCES:</u> 1. Ratner, S.F., et al. (1985) Nucleic Acids Res. <u>13</u>: 5007-5018. 2. Robbins, K.C., et al. (1981) Proc. Natl. Acad. Sci. USA <u>78</u>:2918-2922.

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