A human single copy DNA probe (ZB6-1) detects multiple polymorphisms on 6qC.M.Ballantyne, H.Y.Zoghbi¹, K.H.Grzeschik², W.E.O'Brien³ and A.L.Beaudet³

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Source and Description ZB6-1, a 2.1 kb human genomic EcoRI fragment derived from a chromosome 6 specific library provided by Los Alamos Laboratories and subcloned into pUC18.

Polymorphism (1) BglI generates a 2 allele polymorphism with allele 1 defined by a 3.3 kb band and allele 2 defined by 2.8 kb and 0.5 kb bands with an invariant band at 6.9 kb. (2) EcoRI generates a 2 allele polymorphism with allele 1 defined by a 10.8 kb band and allele 2 by a 2.7 kb band. (3) PvuII generates a 2 allele polymorphism with allele 1 defined by a 7.6 kb band and allele 2 by a 3.3 kb band.

<u>Frequency</u>	<u>BglI</u>	<u>PvuII</u>	<u>EcoRI</u>	
	18 Caucasians	19 Caucasians	16 Caucasians/7 American Black	
Allele 1	0.39	0.95	0.0	0.71
Allele 2	0.61	0.05	1.0	0.29

Not Polymorphic For: AluI, BalI, BamHI, BanI, BclI, BglII, EcoRV, HindIII, HincII, KpnI, MboI, MspI, PssI, PstI, PvuII, RsaI, SacI, SphI, SstI, StuI, XbaI.

Chromosomal Localisation: 6q21-qter using a hamster human somatic cell hybrid panel.

Probe Availability: Freely available from H. Y. Zoghbi, M.D., Baylor College of Medicine, One Baylor Plaza, Houston, Texas 77030

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BglI

3.3 kb
2.8 kb