



THE UNIVERSITY *of* EDINBURGH

Edinburgh Research Explorer

Highly polymorphic locus D15S24 (CMW-1) maps to 15pter-q13. [HGM9 provisional no. D15S24]

Citation for published version:

Rich, DC, Witkowski, CM, Summers, KM, van Tuinen, P & Ledbetter, DH 1988, 'Highly polymorphic locus D15S24 (CMW-1) maps to 15pter-q13. [HGM9 provisional no. D15S24]' *Nucleic Acids Research*, vol 16, no. 17, pp. 8740. DOI: 10.1093/nar/16.17.8740

Digital Object Identifier (DOI):

[10.1093/nar/16.17.8740](https://doi.org/10.1093/nar/16.17.8740)

Link:

[Link to publication record in Edinburgh Research Explorer](#)

Document Version:

Publisher's PDF, also known as Version of record

Published In:

Nucleic Acids Research

Publisher Rights Statement:

Copyright © 2013 Oxford University Press

General rights

Copyright for the publications made accessible via the Edinburgh Research Explorer is retained by the author(s) and / or other copyright owners and it is a condition of accessing these publications that users recognise and abide by the legal requirements associated with these rights.

Take down policy

The University of Edinburgh has made every reasonable effort to ensure that Edinburgh Research Explorer content complies with UK legislation. If you believe that the public display of this file breaches copyright please contact openaccess@ed.ac.uk providing details, and we will remove access to the work immediately and investigate your claim.



Highly polymorphic locus D15S24 (CMW-1) maps to 15pter-q13. [HGM9 provisional no. D15S24]

Donna C.Rich, Collette M.Witkowski¹, Kim M.Summers, Peter van Tuinen and David H.Ledbetter

Institute for Molecular Genetics, Baylor College of Medicine, Houston, TX 77030 and ¹Department of Radiation Oncology, University of Arizona Cancer Center, Tucson, AZ 85724, USA

SOURCE AND DESCRIPTION OF CLONE: CMW-1, containing a 3.8kb Eco RI fragment, was isolated from a flow sorted library cloned in Charon 21A from the Los Alamos National Laboratory (LA15NS02). The 3.8kb fragment has also been inserted into the Eco RI site of pUC18.

POLYMORPHISMS: Eco RI and Taq I reveal a multi-allele (>6) system with bands between 3.0 kb and 4.2 kb and 1.5 kb and 2.5 kb, respectively. D15S24 is also polymorphic with the following enzymes: Msp I, Ban II, Bgl I, Bgl II, BST EII, Sac I, Pst I, Eco RV, Pvu II, Apa I, Dra I, Kpn I, and Bst NI.

FREQUENCIES: Heterozygosity of 85% in 32 individuals.

NOT POLYMORPHIC FOR: Sca I, Xba I in 6 unrelated individuals.

CHROMOSOMAL LOCALIZATION: D15S24 maps to chromosome 15, region 15pter-q13, using a somatic cell hybrid regional mapping panel.

MENDELIAN INHERITANCE: Co-dominant segregation shown for alleles detected with Eco RI and Taq I in two informative Caucasian families totaling 17 individuals.

PROBE AVAILABILITY: Available without restriction.

OTHER COMMENTS: Coordinate variation using multiple enzymes suggests that CMW-1 detects a variable number of tandem repeats (VNTR, Nakamura et al., 1987).

REFERENCES: Nakamura et al., Science 235: 1616, 1987.

ACKNOWLEDGEMENTS: Supported in part by Public Health Service grant HD20619. LA15NS02 (American Type Culture Collection, catalog #57729) chromosome specific gene library used in this work was constructed at the Life Sciences Division, Los Alamos National Laboratory, Los Alamos, New Mexico 87545, under the auspices of the National Laboratory Gene Library Project, which is sponsored by the U.S. Department of Energy.