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	ELSEVIER FULL-TEXT ARTICLE
<u>Genomics.</u> 1999 Dec 1;62(2):129-38.	
Identification of imprinted loci by methylation-sensitive repres difference analysis: application to mouse distal chromosome	
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Abstract Imprinted genes are distinguished by different patterns of methylation on their pare property by which imprinted loci could be identified systematically. Here, represent difference analysis (RDA) is used to clone Hpall fragments with methylation different maternal and paternal copies of distal chromosome (Chr) 2 in the mouse. Uniparer for this region causes imprinting phenotypes whose molecular basis is only partiall RDA led to the recovery of multiple differentially methylated Hpall fragments at two imprinted methylation: paternal-specific methylation at the Nesp locus and maternamethylation at the Gnasxl locus. Nesp and Gnasxl represent oppositely imprinted the Gnas gene, which encodes the G-protein subunit, Gsalpha. The organization of Gnasxl-Gnas region was determined: Nesp and Gnasxl were found to be 15 kb ap was found to be 30 kb upstream of Gnas. Sites of imprinted methylation were also loci for neuronatin on Chr 2 and for M-cadherin on Chr 8. RDA was highly effective imprinted methylation, and its potential applications to imprinting studies are discust Copyright 1999 Academic Press	tational ences on the ences on the ences on the ental inheritance by understood. It is major sites of al-specific promoters of the Nespectant, and Gnasxific detected at the ental dentifying
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PMID: 10610704 [PubMed - indexed for MEDLINE]

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