

(12) UK Patent Application (19) GB (11) 2 373 500 (13) A

(43) Date of Printing by UK Office 25.09.2002

(21) Application No 0123361.8  
(22) Date of Filing 29.01.2001  
(30) Priority Data  
(31) 60180312 (32) 04.02.2000 (33) US  
(31) 60207456 (32) 26.05.2000  
(31) 09608408 (32) 30.06.2000  
(31) 09632366 (32) 03.08.2000  
(31) 60234687 (32) 21.09.2000  
(31) 60236359 (32) 27.09.2000  
(31) 0024263 (32) 04.10.2000 (33) GB

(86) International Application Data  
PCT/US2001/002967 En 29.01.2001  
(87) International Publication Data  
WO2001/057251 En 09.08.2001

(71) Applicant(s)  
Aeomica Inc  
(Incorporated in USA - Delaware)  
928 East Arques Avenue, Sunnyvale,  
California 94086, United States of America

(72) and (74) continued overleaf

(51) INT CL<sup>7</sup>  
C12Q 1/68

(52) UK CL (Edition T )  
C2L LSN

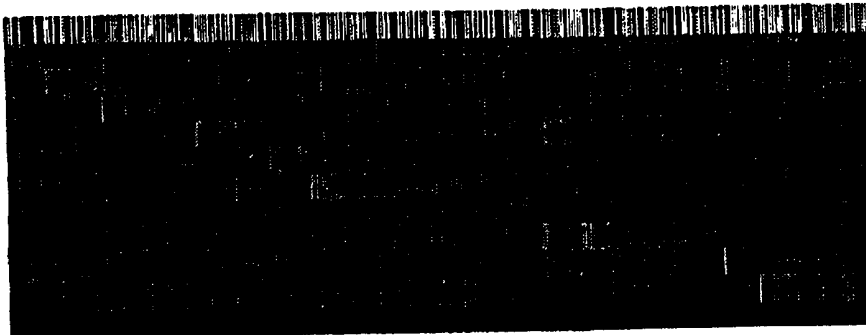
(56) Documents Cited by ISA  
WO 2000/079006 A1 US 5837832 A  
Rev. Immunogenetics, Vol.1, 1999, Guo, Z. et al.,  
"Oligonucleotide arrays...", pp.220-230.  
Genome Res., Vol.8, 1998, Hacia, J. G. et al.,  
"Strategies for mutational...", pp.1245-1258  
Nature Genetics, Vol.14, Feb. 1998, Hacia, J. G. et al.,  
"Evolutionary sequence comparisons...", pp.155-158  
Nature Genetics, Vol.14, Dec.1996, Hacia, J. G. et al.,  
"Detections of heterozygous..", pp.441-447  
Nuc. Acids Res., Vol.22, No.24, 1994, Guo, Z. et al.,  
"Direct fluorescence of genetic...", pp.5456-5465.

(58) Field of Search by ISA  
Online: EPODOC, WPI, PAJ, BIOSIS, CAPLUS,  
EMBASE, MEDLINE, SCISEARCH  
Internet: <http://www.5z.com>

(54) Abstract Title  
**Methods and apparatus for predicting, confirming, and displaying functional information derived from genomic sequence**

(57) Methods and apparatus for predicting, confirming and displaying functional regions from genomic sequence data are presented. The methods and apparatus are particularly useful for predicting coding regions within genomic sequence data, confirming the expression thereof experimentally, and relating and displaying the expression data in meaningful relationship to the genomic sequence. The methods and apparatus of the present invention thus present powerful tools for novel gene discovery.

EST Hit  
Bone Marrow  
Brain  
BT 474  
Fetal Liver  
HBL100  
Heart  
Hela  
Liver  
Lung  
Placenta



GB 2 373 500 A

(72) Inventor(s)

**Sharron Gaynor Penn**

**David Russell Rank**

**David Kagen Hanzel**

(74) Agent and/or Address for Service

**Catriona Macleod Hammer**

**Amersham PLC, Amersham Laboratories,**

**White Lion Road, AMERSHAM, Bucks, HP7 9LL,**

**United Kingdom**