

Title (en)  
MITOCHONDRIAL BIOLOGY EXPRESSION ARRAYS

Title (de)  
MITOCHONDRIAL-BIOLOGISCHE EXPRESSIONSARRAYS

Title (fr)  
RESEAUX D'EXPRESSION DE BIOLOGIE MITOCHONDRIALE

Publication  
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Application  
**EP 02768777 A 20020830**

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Abstract (en)  
[origin: WO03020220A2] This invention provides a library of genes involved in mitochondrial biology, arrays containing probes for genes involved in mitochondrial biology, methods for making such arrays, and methods of using such arrays. Genes and probe sequences involved in mitochondrial biology in humans and mice are provided. The arrays of this invention are useful for determining mitochondrial biology gene expression profiles. Mitochondrial biology gene expression profiles are useful for determining expression profiles diagnostic of physiological conditions; diagnosing physiological conditions; identifying biochemical pathways, genes, and mutations involved in physiological conditions; identifying therapeutic agents useful for preventing and/or treating such physiological conditions; evaluating and/or monitoring the efficacy of such therapies, and creating and identifying animal models of human physiologic conditions. Arrays containing probes for all genes known to be involved in mitochondrial biology are provided, as well as arrays containing subsets of such probes.

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CPC (source: EP)  
**C12Q 1/6883** (2013.01); **C12Q 1/6837** (2013.01); **C12Q 2600/158** (2013.01)

Citation (search report)  
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• [XY] GERHOLD D ET AL: "DNA chips: promising toys have become powerful tools.", TRENDS IN BIOCHEMICAL SCIENCES. MAY 1999, vol. 24, no. 5, May 1999 (1999-05-01), pages 168 - 173, XP004167912, ISSN: 0968-0004  
• [XY] CELIS J E ET AL: "Gene expression profiling: monitoring transcription and translation products using DNA microarrays and proteomics.", FEBS LETTERS. 25 AUG 2000, vol. 480, no. 1, 25 August 2000 (2000-08-25), pages 2 - 16, XP004597866, ISSN: 0014-5793  
• [Y] DATABASE EMBL EMBL; 24 September 1996 (1996-09-24), MARRA M. ET AL., XP002312333, retrieved from EBI accession no. AA060967  
• See references of WO 03020220A2

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