

Title (en)

METHODS FOR HIGH RESOLUTION GENE MAPPING.

Title (de)

Verfahren zur Hochauflösenden Genkartierung.

Title (fr)

PROCEDES DE CARTOGRAPHIE GENIQUE A HAUTE RESOLUTION.

Publication

**EP 0640147 A1 19950301 (EN)**

Application

**EP 93911141 A 19930507**

Priority

- US 9304330 W 19930507
- US 88014592 A 19920507

Abstract (en)

[origin: WO9322463A2] Two convenient methods for ordering discrete DNA sequences at a high resolution are described. In one embodiment, the invention features a) contacting a eukaryotic cell containing a chromosome of interest with an agent that effects decondensation; b) preparing the cell containing decondensed chromatin for hybridization; and c) hybridizing the cell produced in step b) with at least two DNA probes, each probe being complementary to at least one discrete DNA sequence present on the chromosome of interest; and d) detecting the presence and relative order of the probes as an indication of the relative and absolute locations of the DNA sequences on the chromosome. In another embodiment, the invention features ordering at least two discrete DNA sequences on a fragment of DNA that has been extended, for example by physical means, chemical means or a combination of both. A preferred physical means for extending DNA is by gentle smearing.

IPC 1-7

**C12Q 1/68**

IPC 8 full level

**C12N 15/09** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP)

**C12Q 1/6841** (2013.01)

Citation (search report)

See references of WO 9322463A2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9322463 A2 19931111**; **WO 9322463 A3 19931209**; AU 4238593 A 19931129; CA 2135072 A1 19931111; EP 0640147 A1 19950301; JP H07506259 A 19950713

DOCDB simple family (application)

**US 9304330 W 19930507**; AU 4238593 A 19930507; CA 2135072 A 19930507; EP 93911141 A 19930507; JP 51964193 A 19930507