

PACKAGE ID - 001080SPARC00 CORD

KWIC TITLE - DNA Clone Ordering from Shotgun Clone
Libraries

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LIMITATION CODE -COPY **AUDIENCE CODE** - LIM

COMPLETION DATE - 12/01/1993 **PUBLICATION DATE** - 12/01/1993

DESCRIPTION - CORD is an implementation of an algorithm for determining
the order of clones from shotgun clone libraries.

PACKAGE CONTENTS - Media Directory; Software Abstract; Media Includes
Source Code;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 3.5 Diskette

METHOD OF SOLUTION - Intensities of hybridization signals of the
complete set of clones with 100-200 oligonucleotide probes are
input. Based on these data, similarities between individual clones
are calculated. Pairs of clones with the highest similarity values
are used as seed for further ordering. In the next step, the
complete set, or the subsets of signal intensities defined on the
basis of previously linked clones are used to connect pairs of
clones having maximal average similarity. Maps of ordered clones
are produced.

COMPUTER - SUN SPARC

OPERATING SYSTEMS - Unix

PROGRAMMING LANGUAGES - C

SOURCE CODE AVAILABLE (Y/N) - Y

RELATED SOFTWARE - GNU GCC compiler

ABSTRACT STATUS - Submitted 4/4/96. Released AS-IS 6/20/96

SUBJECT CLASS CODE - Y

KEYWORDS -
COMPUTER PROGRAM DOCUMENTATION
C CODES
DNA

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OLIGONUCLEOTIDES
ALGORITHMS
GENOME MUTATIONS
MAPPING
DATA ANALYSIS
HUMAN POPULATIONS
DNA SEQUENCING
CLONING
DNA HYBRIDIZATION

EDB SUBJECT CATEGORIES -
990200 550300

SPONSOR - DOE/EH

PACKAGE TYPE - AS - IS