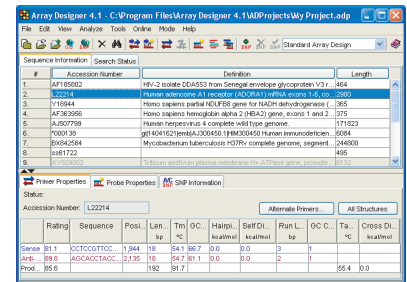


Array Designer

For fast and efficient design of specific oligos for whole genome arrays, tiling arrays and resequencing arrays

Comprehensive Tool

Array Designer is a comprehensive desktop tool to efficiently design hundreds of specific oligos for SNP detection or expression studies or hundreds of PCR primer pairs for cDNA microarrays. You can efficiently retrieve, analyze and store data.



Arrays for the Post-sequencing Era

Whole Genome Arrays: With Array Designer you can study entire organisms effortlessly by detecting every gene or exon in the whole genome, characterizing transcriptomes, discovering differentially and alternatively spliced transcripts, SNP discovery and genotyping, DNA sequence variation in individuals or populations and comparative genome hybridization (CGH).

Tiling Arrays: You can even design tiling arrays to spot every base of a long genomic sequence, avoiding repetitive regions. Designing arrays to characterize regulatory elements, or to study epigenetic modifications, methylation patterns and protein binding sites has never been so easy.

Resequencing Arrays: Array Designer designs resequencing arrays with which you can detect SNP and other sequence variations in a large number of samples for applications such as biowarfare pathogen studies, predisposition and resistance to disease or discovering the genetic basis of phenotypic traits. With a unique feature which we call "Project BLAST", you can identify and avoid the homologous regions that create false positives.

Design Highly Specific Oligos

To ensure specific amplification and exact detection, Array Designer designs highly specific PCR primers and oligos by automatically avoiding regions of significant cross homologies identified during a BLAST search against a private local database or the genomic public databases available at NCBI. For a whole genome sequence, Array Designer automatically creates a local custom database of the input sequence and BLAST searches every fragment against it. To verify the specificity of design, you can BLAST the designed oligos.

Beyond NCBI Database Support

When working with confidential or publicly unavailable sequences, you can set up a local database either on a Unix based server for institution-wide access or on a PC for your own convenience.

Activate the program following these steps:

- Install the Array Designer demo from the CD
- Launch the program
- Click **Evaluate** on the first window that opens
- Request an evaluation key from us
- The demo will transform to a fully functional product

Learn to use Array Designer

- Array Designer Multimedia Tutorial is included on the CD

Order on-line

- www.PremierBiosoft.com
- Email: sales@PremierBiosoft.com
- Phone: 650-856-2703, Fax: 650-618-1773

Other bioinformatics tools from Premier Biosoft International

AlleleID Beacon Designer Primer Premier SimGlycan SimVector TMA Foresight Xpression Primer



Designs oligos for genotyping microarrays.
Designs oligos or primer pairs for cDNA microarray expression studies.

Designs multiple specific probes on each of numerous templates in a single search run.

Avoids cross homologies among designed probes and primers to ensure robust signals in single tube multiplex reactions.

Adapted to most widely used SNP detection methods including primer extension assays and tiling arrays.

Displays probe properties including graphical views of secondary structures.

Directly loads SNP information from GenBank annotations.

Conveniently add unpublished SNPs.

Designs both wild and mutant probes for the selected strand.

Designs the best primer pair for specificity and amplification efficiency.

Automatically interprets and displays BLAST search results.

BLAST searches against all the genomic databases available at NCBI.

BLAST searches against your own local database.

Exports results in a tab delimited format for easy ordering or for importing into central databases like Oracle.

Available for Windows and Linux.

PREMIER Biosoft International: Visit us at www.PremierBiosoft.com

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