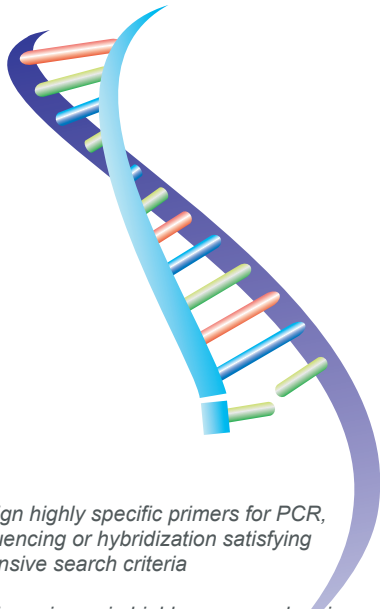


# Primer Premier

*A comprehensive primer design tool*



*Design highly specific primers for PCR, sequencing or hybridization satisfying extensive search criteria*

*Design primers in highly conserved regions for cross species experiments or pathogenic detection*

*Design allele specific primers to exclusively amplify a single member from a set of related sequences*

*Translate original DNA into protein using all possible reading frames and reverse translate to DNA for degenerate primer design*

*Let Primer Premier search for primers automatically, or choose the manual search mode for greater control over the search parameters*

*Select primers for nested or multiplex PCR reactions by checking cross homologies among candidate primers*

*Use the extensive built-in database of over 800 enzymes and 200 common motifs for analyzing sequences*

*View the results of enzyme analysis as cut sites on the sequence or as a map.*

*A table lists the number and locations of cut sites for each enzyme along with its recognition sequence*

*Examine sequences using the included set of common motifs and obtain complete motif analysis*

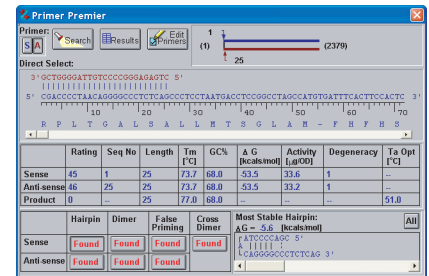
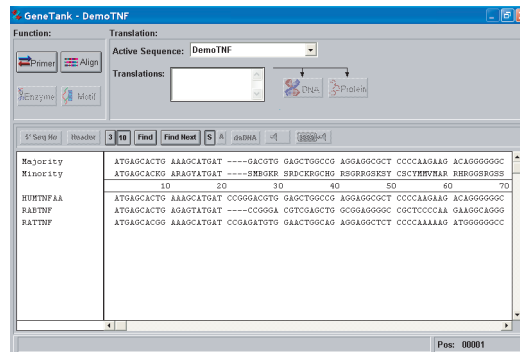
*Modify or extend the database of enzymes and motifs by adding or editing, then select customized subsets for your lab*

*Generate graphs for critical properties like melting temperature, GC % and internal stability for the entire template*

*Available for Windows*

## Extensive Assay Support

Primer Premier is a comprehensive tool for PCR, hybridization, cross species, sequencing and allele specific primer design.



## Integrated Alignment

Primer Premier fully integrates multiple sequence alignment for consensus or species specific primer design using the well proven, widely used ClustalW algorithm.

## Degenerate and Multiplex Primer Design

With Primer Premier you can start with an amino acid sequence, reverse translate and design primers in regions of low degeneracy automatically. Primer Premier designs highly specific primers for multiplex experiments and analyzes them for homologies.

## Sequence Analysis

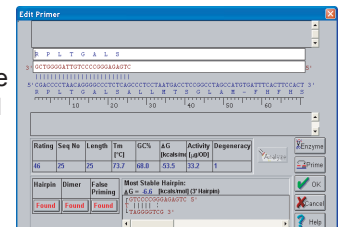
Use Primer Premier to analyze your templates using an extensive built-in database of common enzymes and motifs. You can even add, delete or edit enzyme and motif information to customize the program for your experiments.

## Comprehensive reports

View and print comprehensive reports on hairpin, dimer, false priming, optical activity and internal stability of your designed primers.

## Versatile Primer Analysis

Primer Premier lets you analyze pre-designed and published primers. You can also design primers for site directed mutagenesis.



## Activate the program following these steps:

- Install the Primer Premier 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 Primer Premier

- Primer Premier Multimedia Tutorial is included on the CD

## Order on-line

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

## Other bioinformatics tools from Premier Biosoft International

AlleleID Array Designer Beacon Designer SimGlycan SimVector TMA Foresight Xpression Primer