

# MICROMON SANGER SEQUENCING

## VIEWING & EDITING ELECTROPHEROGRAM TRACE FILES

If you do not already own a license for a full, dedicated analysis program, simple, electropherogram trace viewers-editors are available on the internet as a freeware for both Windows and Mac operating systems.

### WINDOWS & MAC VIEWERS

There are highly recommended, simple viewers that are free and easily downloaded from the web.

**FinchTV** provides a range of useful features including standard or wrapped panel views, raw data view, printing capability, navigation, vertical & horizontal scaling, resizing, basecalls, electropherogram specific information and toolbars. Importantly, it also has the ability to graphically display the Quality Value bars that are generated for each basecall by the ABI Sequence Analysis software.

**Chromas** is similar to FinchTV but is available as both freeware and licensed versions, each with differing capabilities.

**SnapGene Viewer** has the added features of sequence maps, primer binding sites, enzyme sites and properties, and zooming for chromosomes. It is also upgradable (fee applies) to the full version of SnapGene which incorporates advanced data analysis functions.

### MAC ONLY VIEWER

**4Peaks** from Nucleobytes is highly recommended as one of the best viewing and editing programs available as a freeware.

## COMPREHENSIVE ANALYSIS & EDITING PROGRAMS

If you need software that is capable of performing functions that are far more advanced than the capabilities of the simple editing programs, commercially available software like Sequencher or MacVector are available, but at a substantial price. There are however, a number of other packages that will perform all the same functions and more, either for a low license fee or are free to academic researchers. Benchling is an outstanding package that has numerous relevant Molecular Biology applications. Please see the following:

### Windows Format

Benchling  
Vector NTI  
CodonCode Aligner  
ChromasPro  
SEQTools (free)  
Gene Studio Pro (free)  
BioEdit (free)  
SnapGene

### Mac Format

Benchling  
Vector NTI  
CodonCode Aligner  
4Peaks (free)  
SnapGene