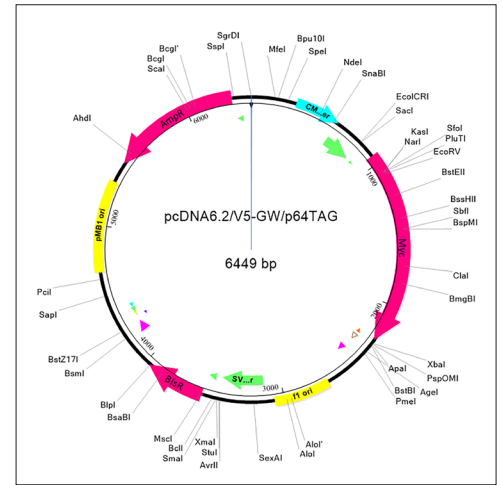
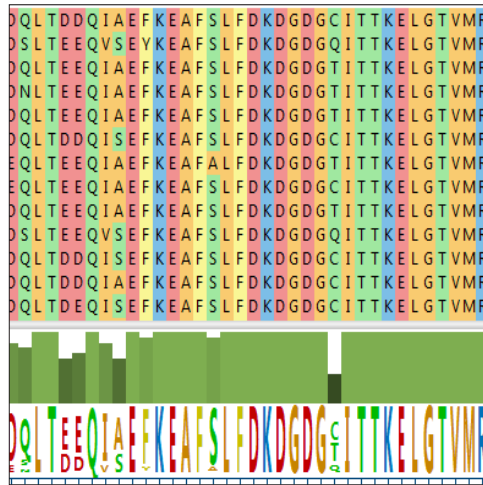


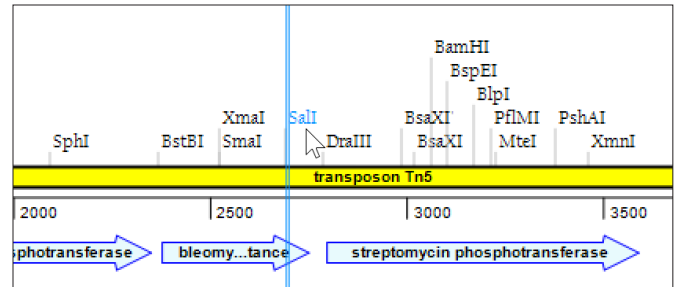
# LASERGENE MOLECULAR BIOLOGY

## Essential software for sequence analysis



### COMPREHENSIVE SEQUENCE ANALYSIS

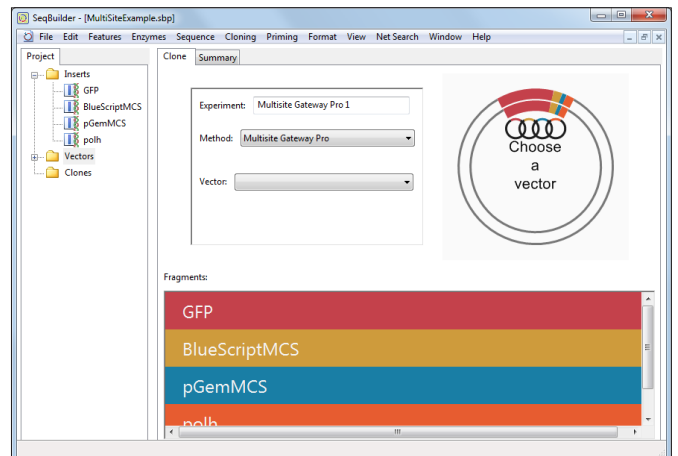
- Auto-annotate sequences quickly and accurately
- Edit sequences and discover genes
- Translate one or many sequences simultaneously
- Simulate movement through an agarose gel
- Create flexible plasmid maps



SeqBuilder Pro lets you customize the appearance and types of restriction sites, features, translations, and more.

### PRIMER DESIGN AND VIRTUAL CLONING

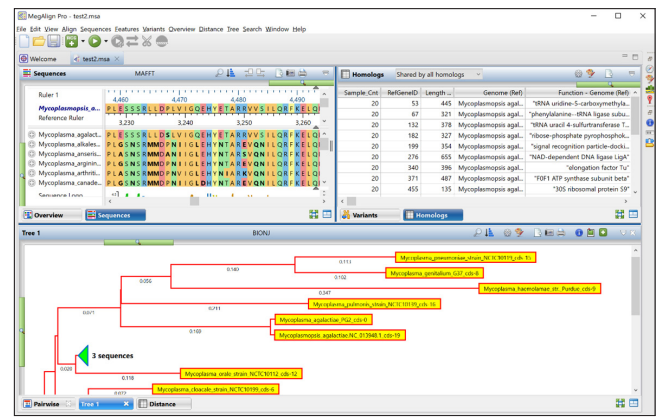
- Use any major cloning method, including Golden Gate, Gibson Assembly, InFusion, Gateway, Multisite Pro Gateway, TOPO cloning, TA cloning, and restriction enzyme techniques
- Design and customize primers and probes
- Create and share primer catalogs



SeqBuilder Pro provides an easy-to-use wizard for setting up precise and scarless Golden Gate clones.

## MULTIPLE SEQUENCE ALIGNMENT AND PHYLOGENETIC ANALYSIS

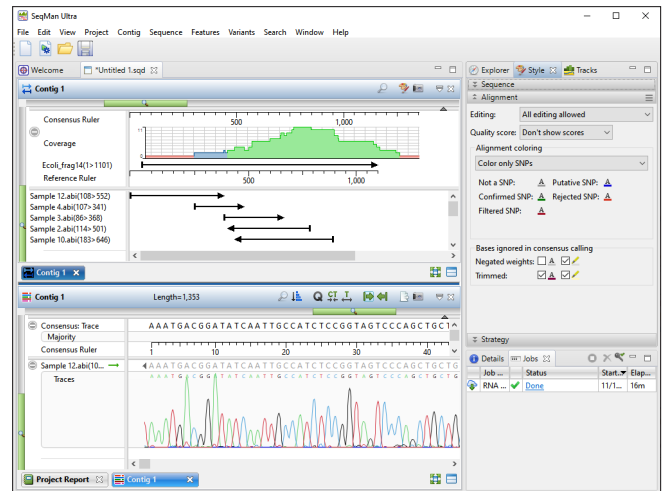
- Align DNA, RNA, or protein using Clustal Omega, Clustal W, MAFFT, MUSCLE, or Mauve
- Analyze gene homology in bacterial genomes or eukaryotic chromosomes
- Align cDNA sequences to chromosomes
- Evaluate variants across genomic strains
- Calculate trees using four popular algorithms, including Neighbor Joining (BIONJ), Maximum Likelihood: RAXML and RAXML-NG, and IQ-Tree



A MegAlign Pro project displaying three of its interactive views: the alignment view, the variants table, and the phylogenetic tree view.

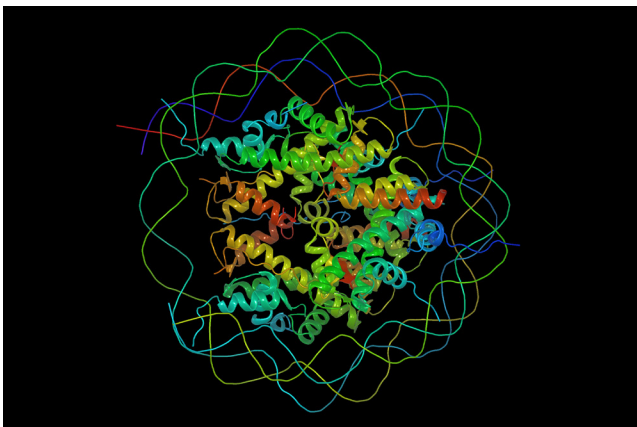
## SANGER SEQUENCE ASSEMBLY AND ANALYSIS

- Assemble reads *de novo* or against one or more reference sequences
- Assess read alignment, coverage, and SNPs
- Analyze and visualize variants across samples
- Design sequencing primers to improve coverage
- Efficiently trim trace sequences using manual or automated trimming options



SeqMan Ultra lets you assemble and analyze Sanger data and can also perform downstream analysis for NGS and long-read assemblies created using Lasergene Genomics (see below).

## For a complete bioinformatics solution, add Lasergene Genomics and Lasergene Protein



DNASTAR Lasergene includes tools for genomics and protein analysis that integrate seamlessly with the editing, analysis, and visualization tools in **Lasergene Molecular Biology**.

If you are working with next-generation sequencing or protein data, our full DNASTAR Lasergene package provides powerful tools and accurate results for all your bioinformatics analysis needs.



608.258.7420 USA  
866.511.5090 USA toll free

0.808.271.1041 UK  
0.800.182.4747 Germany

1202 Ann Street  
Madison, WI 53713

www.dnastar.com  
info@dnastar.com