

Deliverables

- Living BAC clones in 384-well format
- Sequence-based physical map - ready to be added to existing genome sequences
- BAC contigs and sequence tags
- Data carrier with all WGP data and customized physical mapping software to access, visualize, edit and export the WGP marker/sequence data



WGP project examples

- Arabidopsis genome - 135 Mb
 - Pilot project for proof of principle
- Melon genome - 450 Mb
 - Only 550 contigs on first assembly
 - Successfully linked to existing Whole Genome Sequence data set
- Potato genome - 840 Mb
- Tomato genome - 950 Mb
- Several other large genomes (e.g. 2,600 and 4,500 Mb)

Contact



Keygene N.V.
P.O. Box 216
6700 AE Wageningen
The Netherlands
www.keygene.com

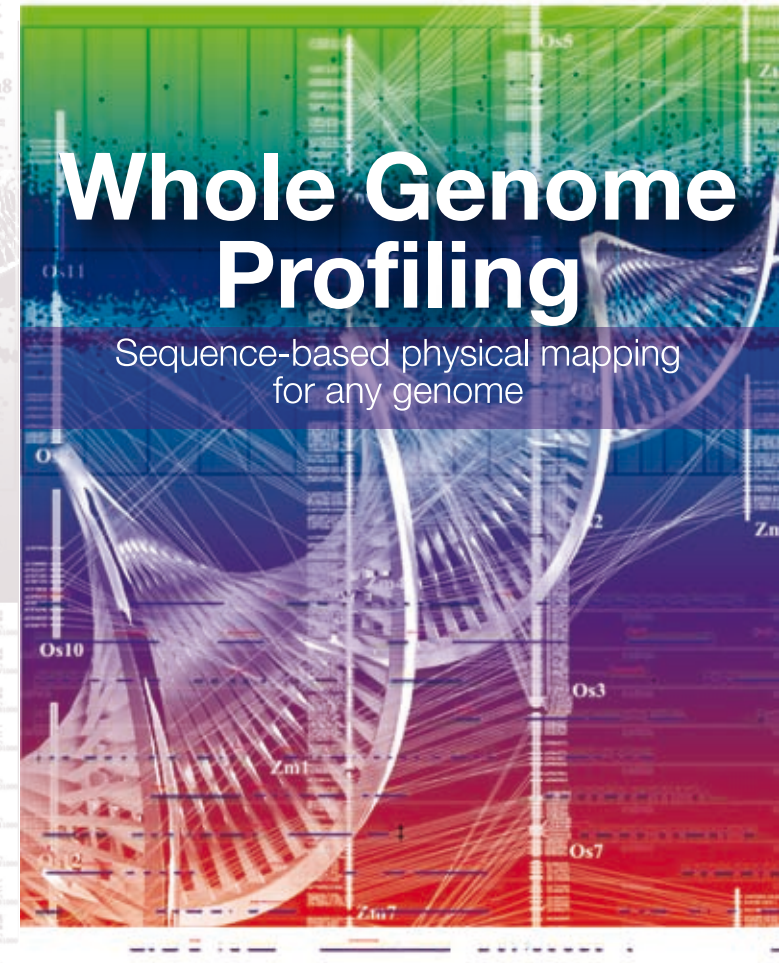
For strategic advise and pricing:

Email: mark.van-haaren@keygene.com
Phone: +31 317 466 866

US and Canada
Email: an.michiels@keygene-inc.com
Phone: +1 240 205 7083

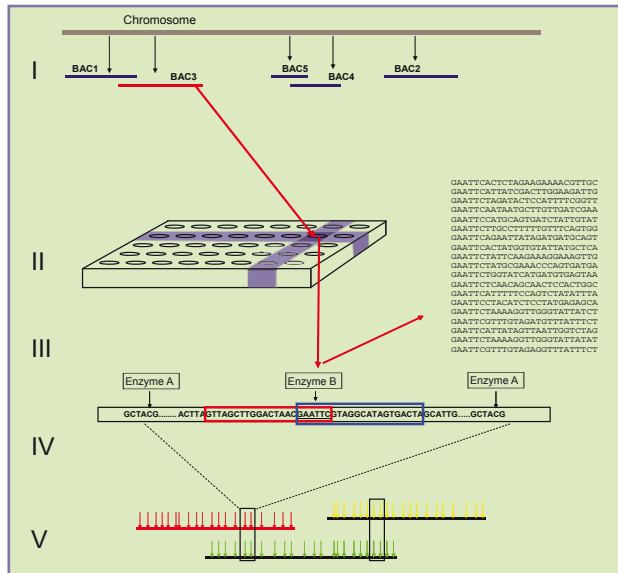
Whole Genome Profiling

Sequence-based physical mapping
for any genome



You benefit from our combined expertise

A powerful method for Whole Genome Physical map construction



The power of sequence tags for Whole Genome assembly

Superior high resolution whole genome assembly

- High level of confidence
- Limited number of gaps
- Large contigs of BAC clones
- Capable of resolving repeat regions and polyploidy levels
- Sequence tags spaced every 2-6 Kb across the BAC clones

WGP saves costs in Whole Genome Sequencing

- WGP physical map serves as an ideal framework for the assembly of Whole Genome shotgun sequence reads on gDNA
- Superior assembly metrics
- No Sanger sequencing required
- No BAC-end sequencing required for excellent assembly

A WGP map provides direct access to underlying gene sequences

- BAC clone plate and well positions are known
- Phenotypic information is directly linked to BAC sequences - giving immediate access to candidate genes
- Possibility to “zoom in” on region of interest for gene cloning, re-sequencing and other experiments

WGP is a competitive technology

- Full service - including BAC library construction, BAC library pooling, Whole Genome Profiling, contig assembly and customer support
- Sufficient computer power for Gb genome sizes
- Fast delivery - from starting tissue to physical maps can be completed in only a few months
- Pricing - comparable or more cost effective than BAC-end sequencing or SnapShot technology and other fragment based technologies.

Sequence-based genome physical map is completed and ready for client analysis.