



CAPTURE-SEQ
ANGIO408

Unifying & Understanding
Flowering Plant Diversity

About Capture-Seq Angio408

The Capture-Seq: Angiosperms-408 (Angio408) probe set captures single-copy nuclear loci for phylogenetic studies across the angiosperms. With an emphasis on recovering full-length sequencing data from 408 expertly curated genomic regions, the Angio408 probe set delivers a one-size-fits-all phylogenetic tool designed to effectively resolve relationships across all flowering plant clades.

The Angio408 probe set was developed at Rapid Genomics in collaboration with Gordon Burleigh (University of Florida).

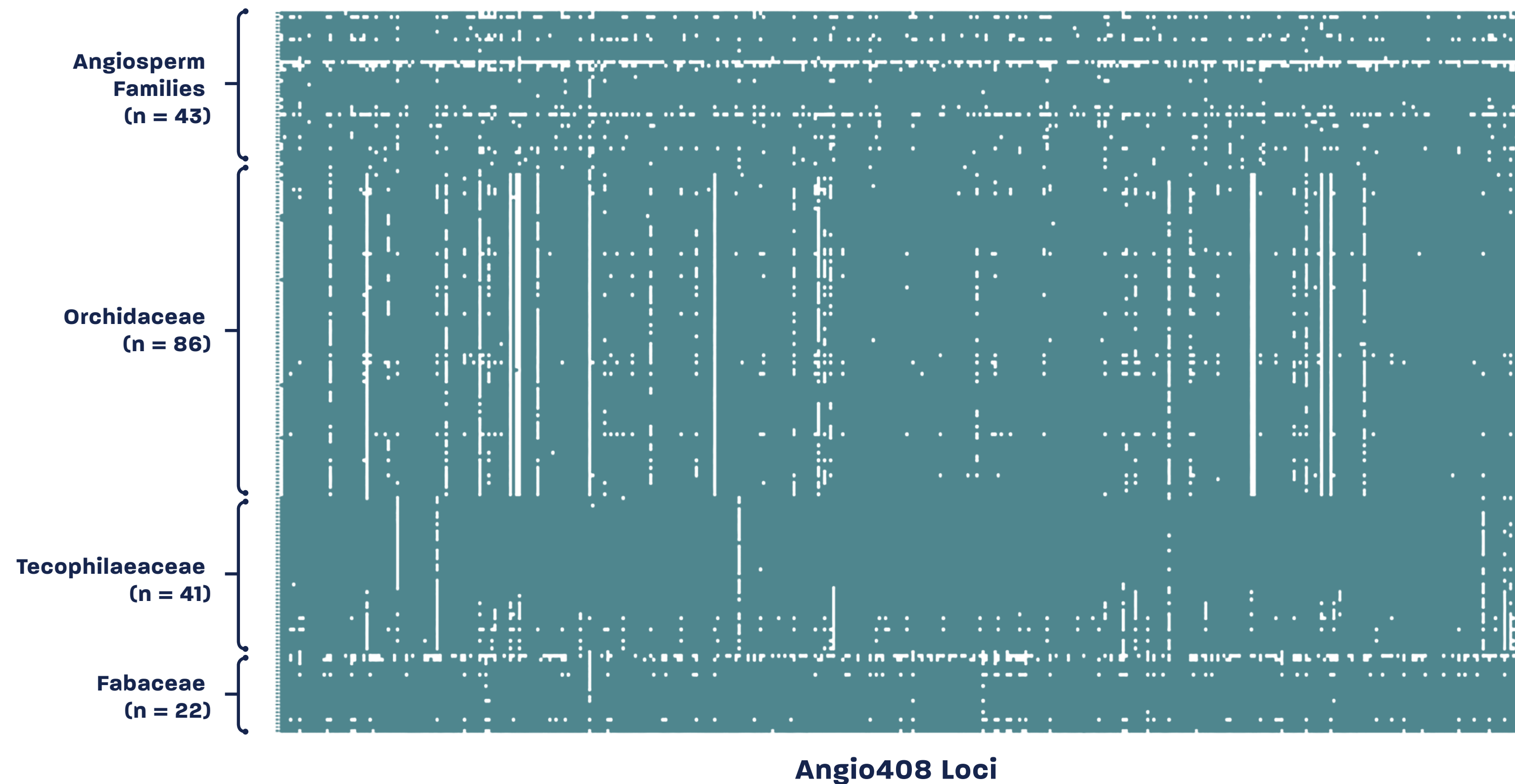
Full-service Capture-Seq: Angio408 sample processing is available at Rapid Genomics starting from DNA to FASTQ data. Additional bioinformatic analyses, including locus assemblies, are also available.

Key Features:

- **Pre-designed & validated by industry-leading phylogenetic experts**
- **Cost-effective: One size fits all flowering plants**
- **Easy data analysis using publicly available pipelines**

Capture-Seq Angio408

Capture-Seq: Angio408 Heat Map Results (n=192)

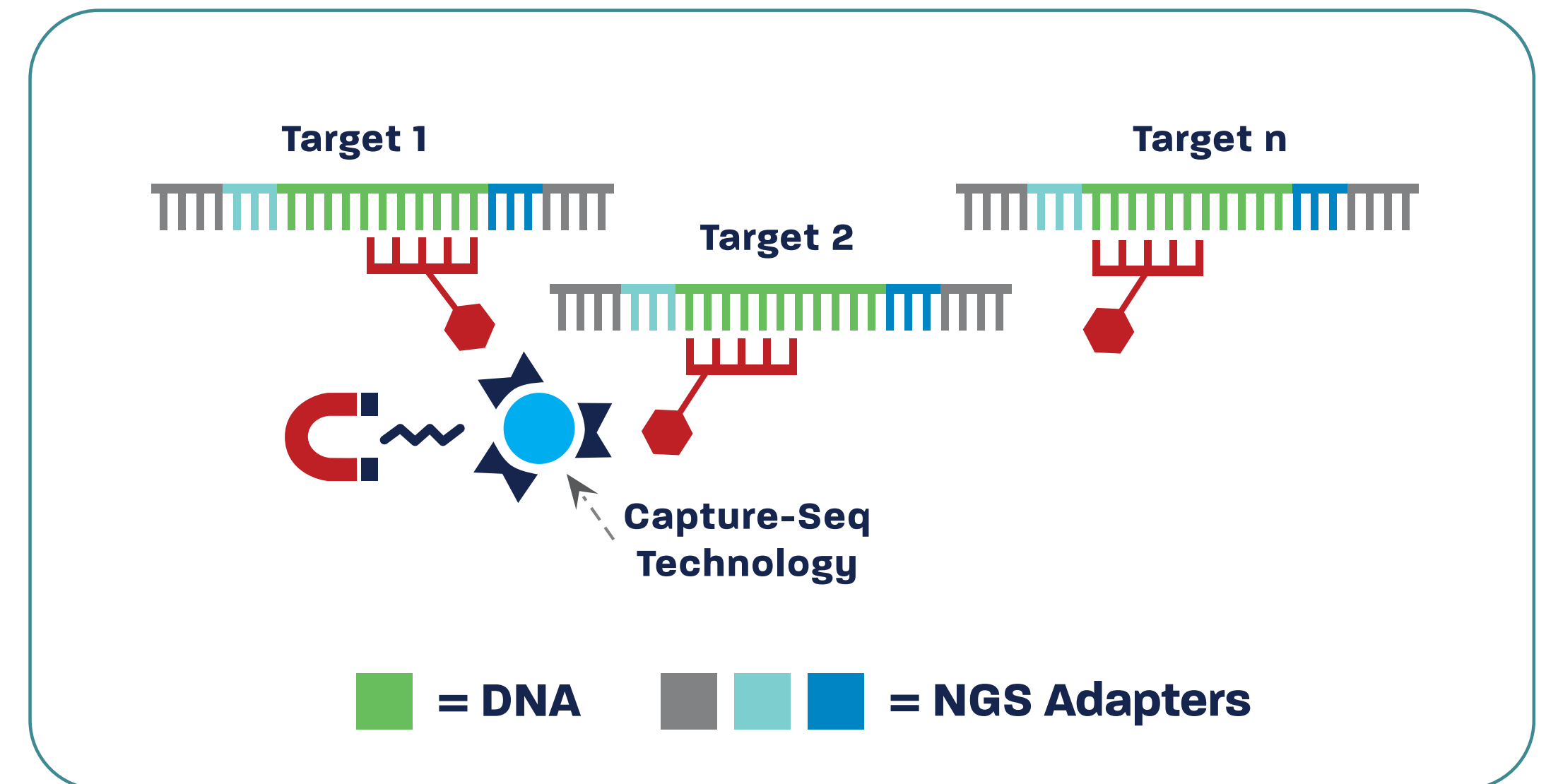


Summary results from 192 angiosperm samples analyzed using the Capture-Seq: Angio408 panel. Each row represents one sample, and each column represents one locus. Samples were chosen from taxa across the angiosperm group with deeper sampling in Orchidaceae, Tecophilaeaceae, and Fabaceae to assess variation within more closely related species and populations. These results demonstrate the Angio408 probe set's strong ability to recover loci across all flowering plant clades.

Capture-Seq Enrichment

The Angio408 probe set utilizes Capture-Seq targeted probe hybridization technology to recover loci shared across the Angiosperm group. Capture-Seq probes are designed from targeted complementary DNA sequences, synthesized and hybridized to NGS DNA libraries. After hybridization, target loci are selectively recovered while removing surrounding, off-target DNA.

Capture-Seq: Angio408 probes are designed to tolerate high levels of diversity in their target loci, enabling maximum recovery of each locus across all species.



LEADING A NEW ERA OF GENOMICS

At Rapid Genomics, the key to improving the future is within the secrets of the genome. Our mission is to expand global access to the technologies required for uncovering those secrets with the highest standards of accuracy and reliability. We provide flexible solutions to a range of commercial and research interests focused on agriculture, veterinary genomics, healthcare, and evolutionary biology. Our customers partner with us to advance their goals and, ultimately, strengthen the industries that do everything from producing our food to curing disease.



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