Title: Supplementary Data 1.

Description: Comparison of various combinatorial cloning methodologies.

Title: Supplementary Data 2.

Description: Position effects of plant-derived regulators.

Title: Supplementary Data 3.

Description: List of COMPASS vectors.

Title: Supplementary Data 4.

Description: PCR fragments used for the cloning of parts into Entry vector X

Title: Supplementary Data 5.

Description: Parts of genes assembled in Entry vector X.

Title: Supplementary Data 6.

Description: Parts of genes assembled in entry vectors.

Title: Supplementary Data 7.

Description: List of Saccharomyces cerevisiae strains used in this study.

Title: Supplementary Data 8.

Description: High-precision flow cytometry for growth analysis.

Title: Supplementary Data 9.

Description: Controllability of plant-derived regulators in COMPASS strains.

Title: Supplementary Data 10.

Description: HPLC results for control strains.

Title: Supplementary Data 11.

Description: Transcriptional output of the NLS-JUB1-EDLLAD-EDLLAD-derived ATF.

Title: Supplementary Data 12.

Description: Primers used for sequencing the library integrated into the genome.

Title: Supplementary Data 13.

Description: Diversity of β -ionone and NG production from a randomized ATF/BS library.

Title: Supplementary Data 14.

Description: Sequences of vectors used in this study.

Title: Supplementary Data 15.

Description: Sequences of primers used in this study.