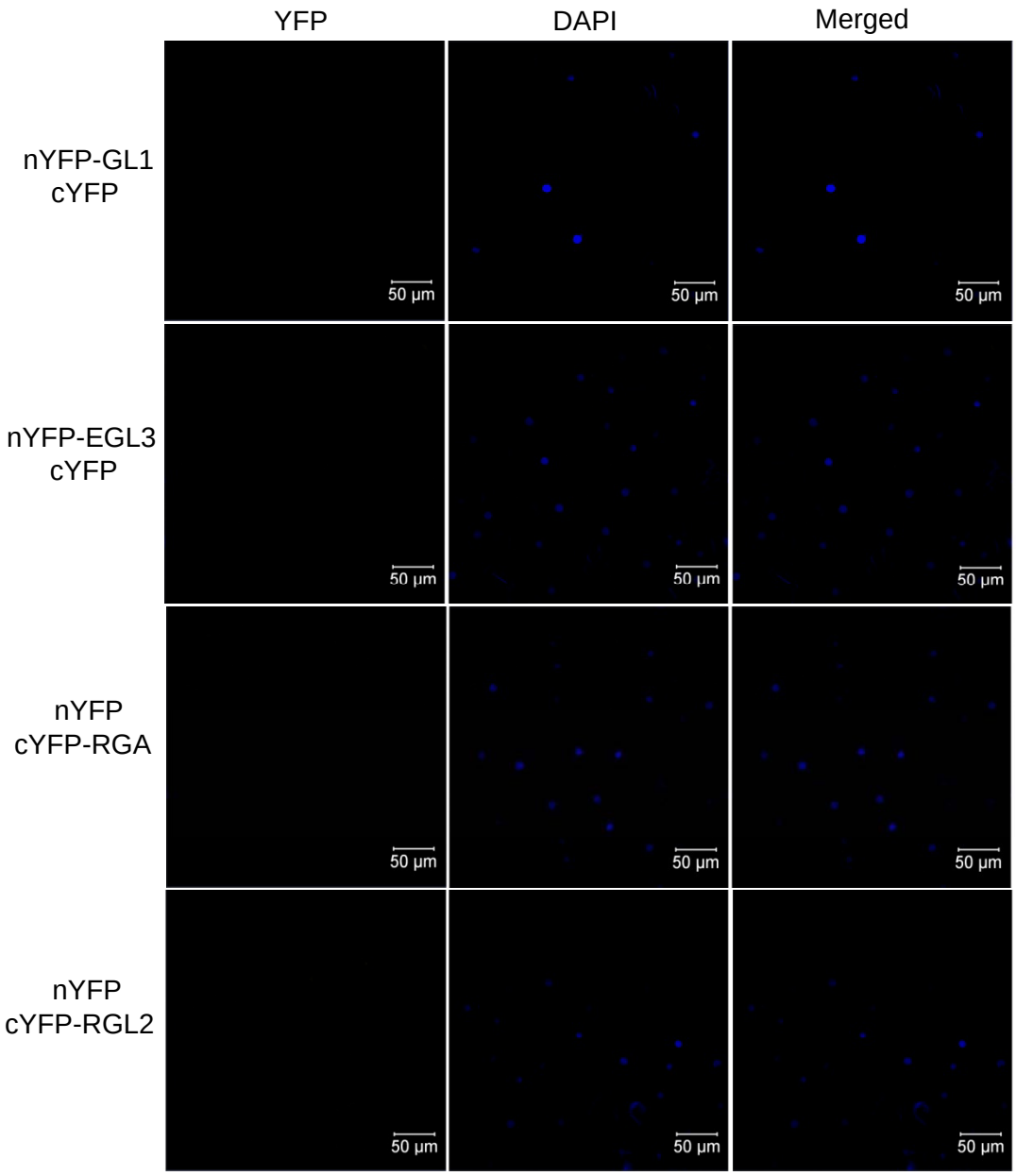
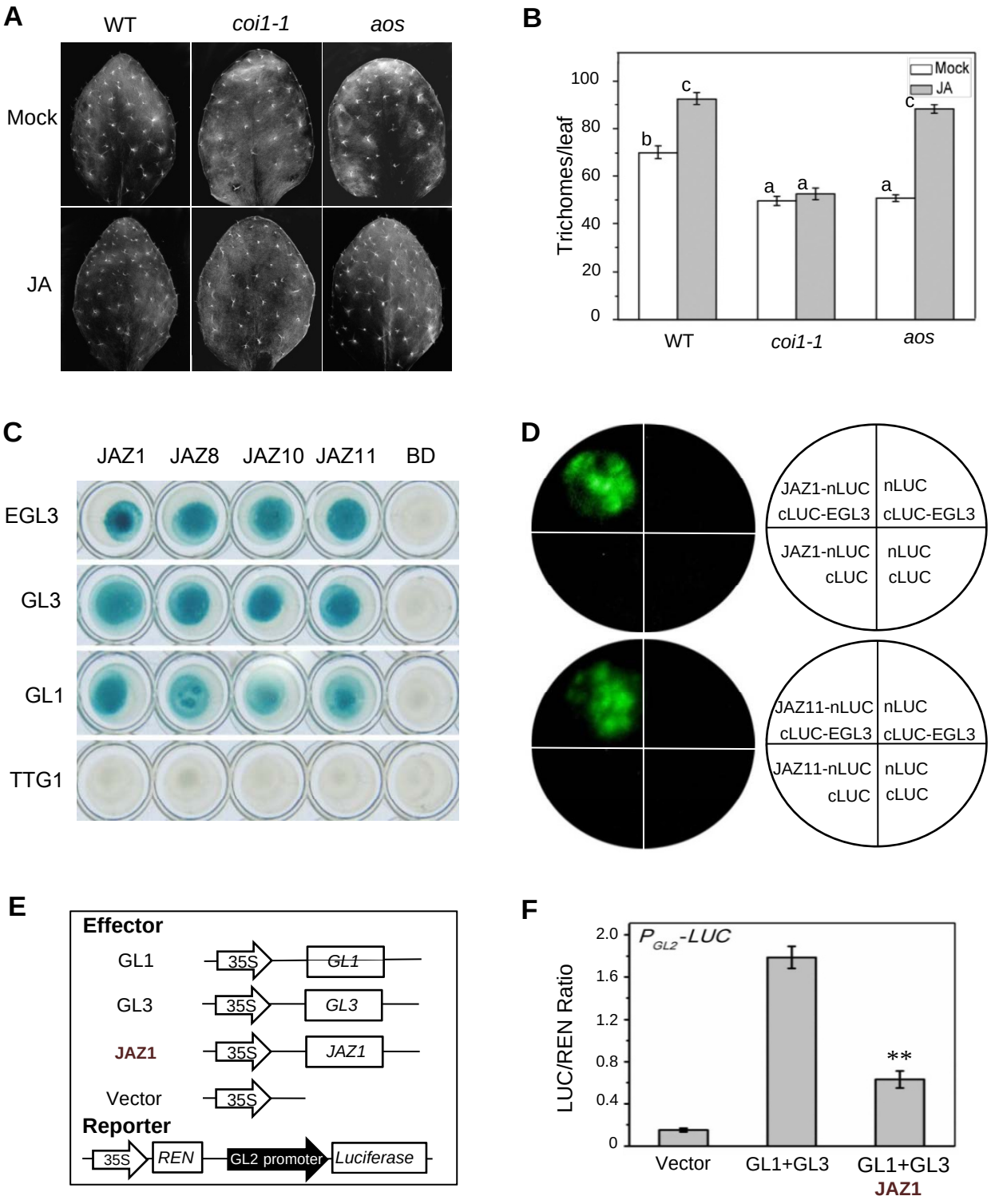


Supplemental Figure 1. Negative Controls of BiFC Assay in *N. Benthamiana* Leaves.

BiFC assay to detect the interactions of GL1 and EGL3 (fused with N-terminal fragment of YFP) with cYFP, and the interactions of RGA and RGL2 (fused with C-terminal fragment of YFP) with nYFP. YFP fluorescence was detected 50 h after infiltration. The nuclei are indicated by DAPI staining.



Supplemental Figure 2.

Supplemental Figure 2. JAZs Interact with the WD-repeat/bHLH/MYB Complex to Modulate Jasmonate-regulated Trichome Development.

(A) Trichome images of wild-type Col-0 (WT), *coi1-1* and *aos* plants treated without (Mock) or with MeJA (JA). The fifth true leaves were selected to count trichome numbers.

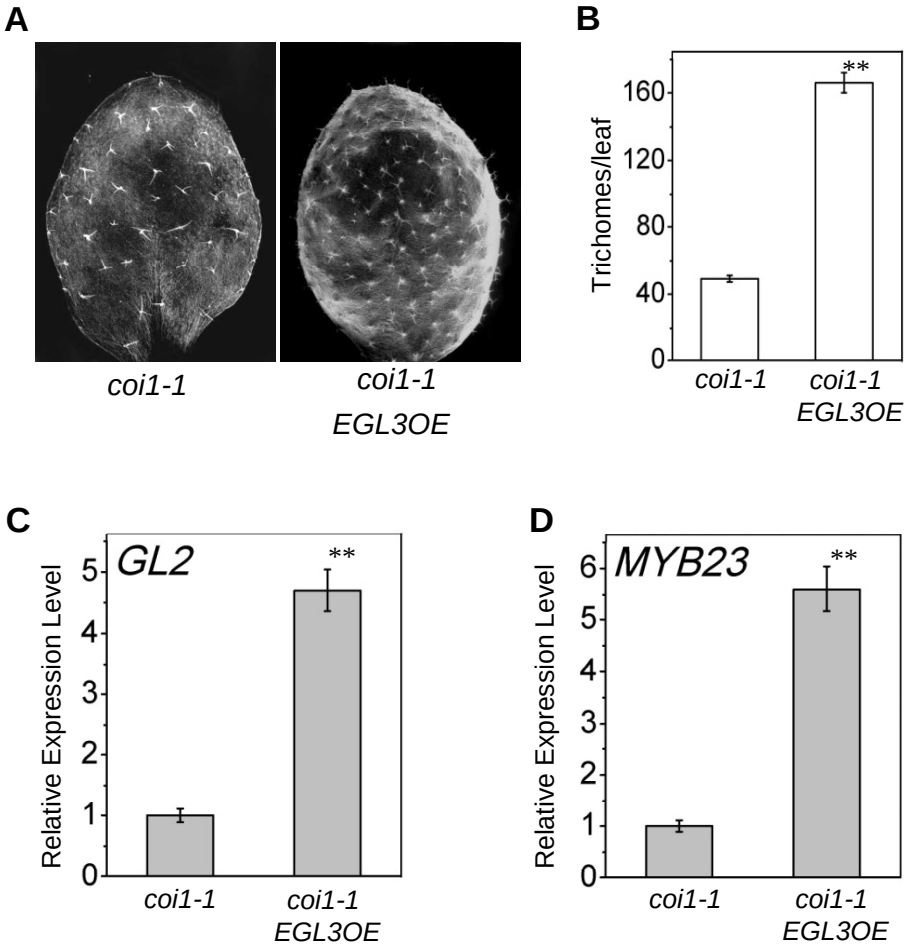
(B) Statistical analysis of total trichome numbers in the fifth true leaves of Col-0 (WT), *coi1-1* and *aos* plants indicated in (A). Eight leaves for each genotype were used for trichome number measurement in each biological experiment. Data are means (±SE) of three biological replicates. Lowercase letters indicate significant differences by one-way ANOVA analysis with SAS software ($P < 0.05$).

(C) Y2H assay to detect the interactions of JAZs proteins with GL1, EGL3, GL3 and TTG1. The JAZ1, JAZ8, JAZ10 and JAZ11 were fused with the LexA BD, and GL1, EGL3, GL3 and TTG1 were fused with AD respectively.

(D) LCI assay shows that EGL3 interacts with JAZ1 and JAZ11 respectively in *N. benthamiana*. EGL3 was fused with C-terminal fragment of LUC (cLUC) to form cLUC-EGL3. JAZ1 and JAZ11 were fused with N-terminal fragment of LUC (nLUC) respectively to generate JAZ1-nLUC and JAZ11-nLUC. *Agrobacterium* strains containing indicated construct pairs were co-infiltrated into *N. benthamiana* leaves. Images were taken 50 h after infiltration.

(E) Schematic diagram shows the constructs used in the transient expression assays of (F).

(F) Transient expression assay shows that activation of *GL2* promoter by GL3/GL1 is repressed by JAZ1. The P_{GL2}-*LUC* reporter was cotransformed with the indicated constructs. Data are means (±SE) of three biological replicates. Asterisks represent Student's t-test significance compared with the GL1+GL3 sample (**, $P<0.01$).



Supplemental Figure 3. *EGL3* Overexpression Restores Trichome Formation in *coi1-1*.

(A) Trichome images of *coi1-1* and *EGL3* overexpression transgenic plant in *coi1-1* background (*coi1-1 EGL3OE*).

(B) Statistical analysis of total trichome numbers in the fifth true leaves of *coi1-1* and *coi1-1 EGL3OE* indicated in (A). Eight leaves for each genotype were used for trichome number measurement in each biological experiment. Data are means (±SE) of three biological replicates. Asterisks represent Student's t-test significance compared with *coi1-1* (**, P<0.01).

(C) and (D) Real-time PCR analysis for *GL2* (C) and *MYB23* (D) in *coi1-1* and *coi1-1 EGL3OE* grown on MS medium. *ACTIN8* was used as the internal control. Data are means (±SE) of three biological replicates. Asterisks represent Student's t-test significance compared with *coi1-1* (**, P<0.01).

Supplemental Table 1. Primers Used for Vector Construction.

GL1-AD-Forward	ggggaattcatgagaataaggagaagagatg
GL1-AD-Reverse	cccgctcgagctaaaggcagtactcaacatc
GL1-NT-AD-Forward	ggggaattcatgagaataaggagaagagatg
GL1-NT-AD-Reverse	cccgctcgagctaggcggaggagtaatctccgac
GL1-CT-AD-Forward	ggggaattcctcgtcggagattactcctc
GL1-CT-AD-Reverse	cccgctcgagctaaaggcagtactcaacatc
EGL3-AD-Forward	ggggaattcatggcaaccggagaaaacagaac
EGL3-AD-Reverse	cccgctcgagttaacatatccatgcaaccc
GL3-AD-Forward	ggggaattcatggctaccggacaaaacagaacaactg
GL3-AD-Reverse	acgcgtcgactcaacagatccatgcaaccctttgaagtgct
GL3-NT-AD-Forward	ggggaattcatggctaccggacaaaacagaacaactg
GL3-NT-AD-Reverse	cccgctcgagagtagtttcatctctggcttctg
GL3-CT-AD-Forward	ggggaattcgttccgcgagtgcaccagaaag
GL3-CT-AD-Reverse	acgcgtcgactcaacagatccatgcaaccctttgaagtgct
TTG1-AD-Forward	ggggaattcatggataattcagctccagattc
TTG1-AD-Reverse	cccgctcgagtcaaactctaaggagctgcat
RGA-R-BD-Forward	ccccaattggcgggtgagtcaactcgttctg
RGA-R-BD-Reverse	ccgctcgagtcagtacgccgccgtcgagagttt
RGL2-R-BD-Forward	ccccaattgtcggacgagtcaactcggtccgtgg
RGL2-R-BD-Reverse	ccccaattggagtcaactcgttccgtggtgctt
MBP-GL1-Forward	ccggaattcatgagaataaggagaagagatgaaaaag
MBP-GL1-Reverse	acgcgtcgacttagtgatgatgatgatgatgaaggcagtactcaacatc
MBP-EGL3-Forward	ccggaattcatggcaaccggagaaaacagaacggtg
MBP-EGL3-Reverse	acgcgtcgacttagtgatgatgatgatgatg acatatccatgcaaccct
MBP-GL3-Forward	ccggaattcatggctaccggacaaaacagaacaactg
MBP-GL3-Reverse	acgcgtcgacttagtgatgatgatgatgatgacagatccatgcaaccct
GL1-nYFP-Forward	cggacaagtttgtacaaaaaagcaggctccatgagaataaggagaagagatg
GL1-nYFP-Reverse	cggaccactttgtacaagaaagctgggtcgtgatgttgagtactgccttcag

EGL3-nYFP-Forward	cggacaagtttgtacaaaaaagcaggctccatggcaaccggagaaaacagaac
EGL3-nYFP-Reverse	cggaccactttgtacaagaaagctgggtcacatatccatgcaacccttttg
cYFP-RGA-Forward	cggacaagtttgtacaaaaaagcaggctccatgaagagagatcatcaccaattc
cYFP-RGA-Reverse	cggaccactttgtacaagaaagctgggtctcagtacgccgccgtcgagag
cYFP-RGL2-Forward	cggacaagtttgtacaaaaaagcaggctccatgaagagaggatacggagaaac
cYFP-RGL2-Reverse	cggaccactttgtacaagaaagctgggtctcaggcgagtttccacgccgag
GL1-GAL4DB-Forward	agacccggggatgagaataaggagaagagatgaa
GL1-GAL4DB- Reverse	acgcgtcgacctaaaggcagtactcaacatcacc
GL3-GAL4DB-Forward	agacccggggatggctaccggacaaaacagaacaac
GL3-GAL4DB- Reverse	acgcgtcgactcaacagatccatgcaacccttttgaag
EGL3-GAL4DB-Forward	agacccggggatggcaaccggagaaaacagaac
EGL3-GAL4DB- Reverse	acgcgtcgacttaacatatccatgcaacccttttg
GL1-pGreen62-Forward	atcgagctcatgagaataaggagaagag
GL1-pGreen62-Reverse	agagtcgacctaaaggcagtactcaacatc
GL3-pGreen62-Forward	atcgagctcatggctaccggacaaaacag
GL3-pGreen62-Reverse	agagtcgactcaacagatccatgcaaccct
RGA-pGreen62-Forward	atcgagctcatgaagagagatcatcacca
RGA-pGreen62-Reverse	agagtcgactcagtacgccgccgtcgagag
RGL2-pGreen62-Forward	agacccgggatgaagagaggatacggag
RGL2-pGreen62-Reverse	agagtcgactcaggcgagtttccacgccgag
GL2pro-pGreen0800-Forward	cggggtaccacgtcttcgtccatttacgtac
GL2pro-pGreen0800-Reverse	catgccatggacaaatcctgtccctagctag
JAZ1-BD-Forward	cccgaattcatgtcgagttctatggaatg
JAZ1-BD-Reverse	aaaagtcgactcatatttcagctgctaaacc
JAZ8-BD-Forward	ccccccatggatgaagctacagcaaaattgtg
JAZ8-BD-Reverse	gggctcgagttatcgtcgtgaatggtacggtg
JAZ10-BD-Forward	ggggaattcatgtcgaaagctaccatagaactcg
JAZ10-BD-Reverse	acgcgtcgacttaggccgatgtcggatagtaag
JAZ11-BD-Forward	ggggaattcatggctgaggtaaacggagatttc

JAZ11-BD-Reverse	aaaagtcgactcatgtcacaatggggctgg
JAZ1-pGreen62-Forward	atcgagctcatgtcgagttctatggaatg
JAZ1-pGreen62-Reverse	agagtcgactcatatttcagctgctaaac
JAZ1-nLUC-Forward	cccgagctcatgtcgagttctatggaatg
JAZ1-nLUC-Reverse	agagtcgactatttcagctgctaaaccgag
JAZ11-nLUC-Forward	cggggtaccatggctgaggtaaacggaga
JAZ11-nLUC-Reverse	acgcgtcgac tgtcacaatggggctggtttc
cLUC-EGL3-Forward	cggggtaccatggcaaccggagaaaacagaac
cLUC-EGL3-Reverse	aaactgcagttaacatatccatgcaaccc
GL1overexpression-Forward	agagtcgacatgagaataaggagaagagatg
GL1overexpression-Reverse	atcactagtaaggcagtactcaacatcac
EGL3overexpression-Forward	agagtcgacatggcaaccggagaaaacagaac
EGL3overexpression-Reverse	atcactagtttaacatatccatgcaaccc

Supplemental Table 2. Primers Used for Quantitative Real-time PCR Analysis.

GL2-realtime-Forward	aagctcgtcggcatgagt
GL2-realtime-Reverse	ttctctcgatttcactgtctgg
MYB23-realtime-Forward	aatgttaacagaggcaattttactga
MYB23-realtime-Reverse	tcttttcgctatcaacgacca
Actin8-realtime-Forward	tcagcactttccagcagatg
Actin8-realtime-Reverse	ctgtggacaatgcctggac