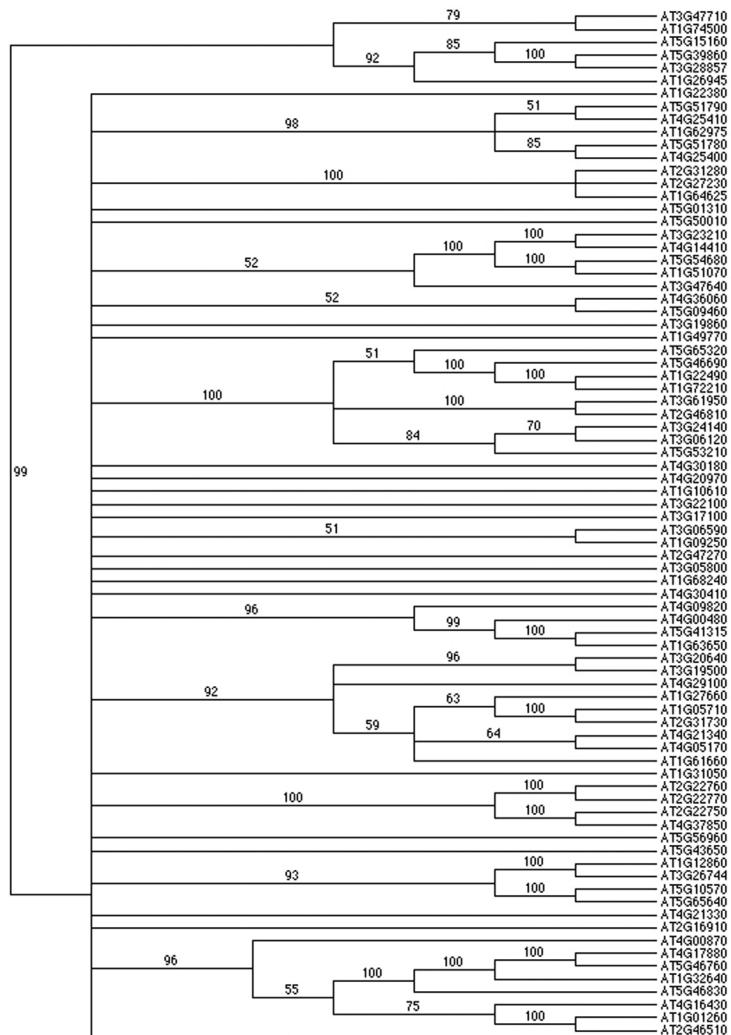
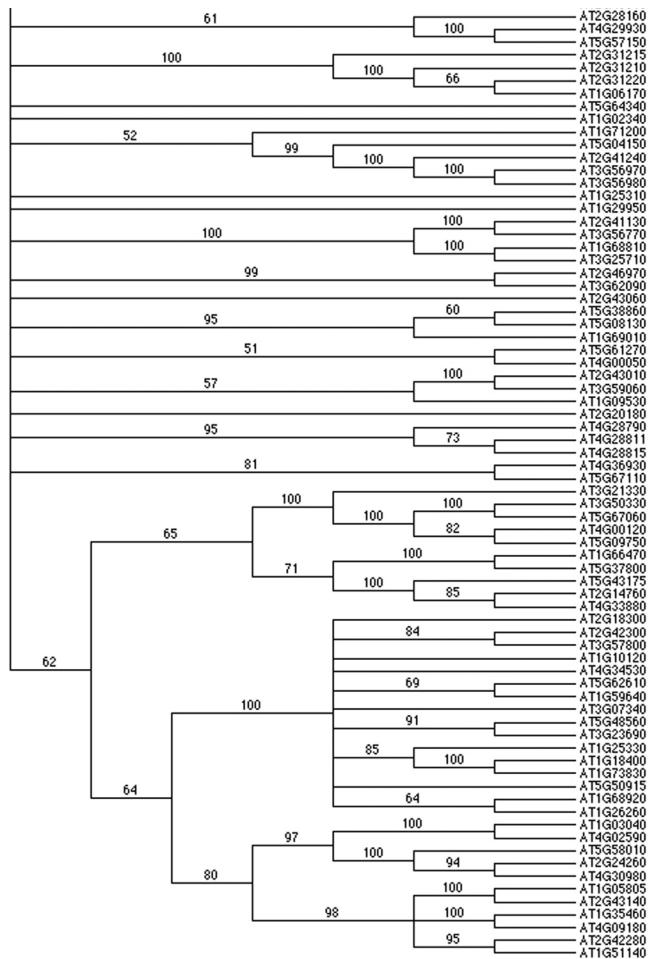


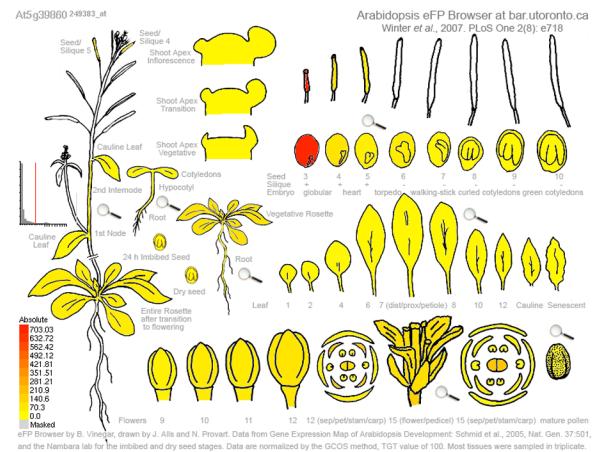
Supplemental Data. Mara et al. Plant Cell. (2010). 10.1105/tpc.109.065946



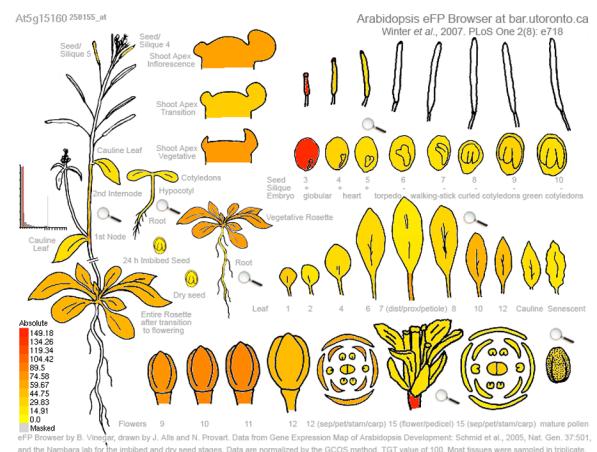


Supplemental Figure 1. Neighbor joining analysis of 154 *Arabidopsis* bHLH genes. Clade containing bHLH genes described in this paper is shown with a vertical line. Bootstrap values of >50% are shown.

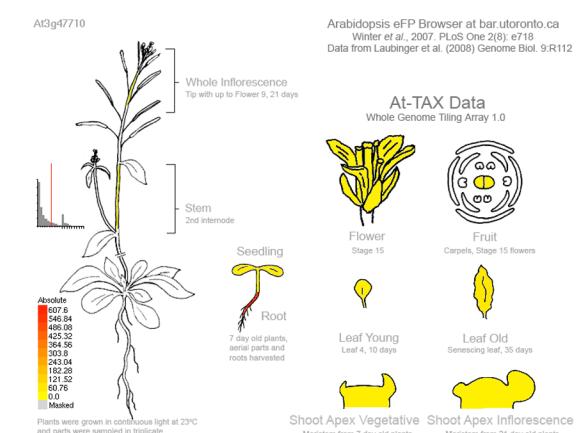
A



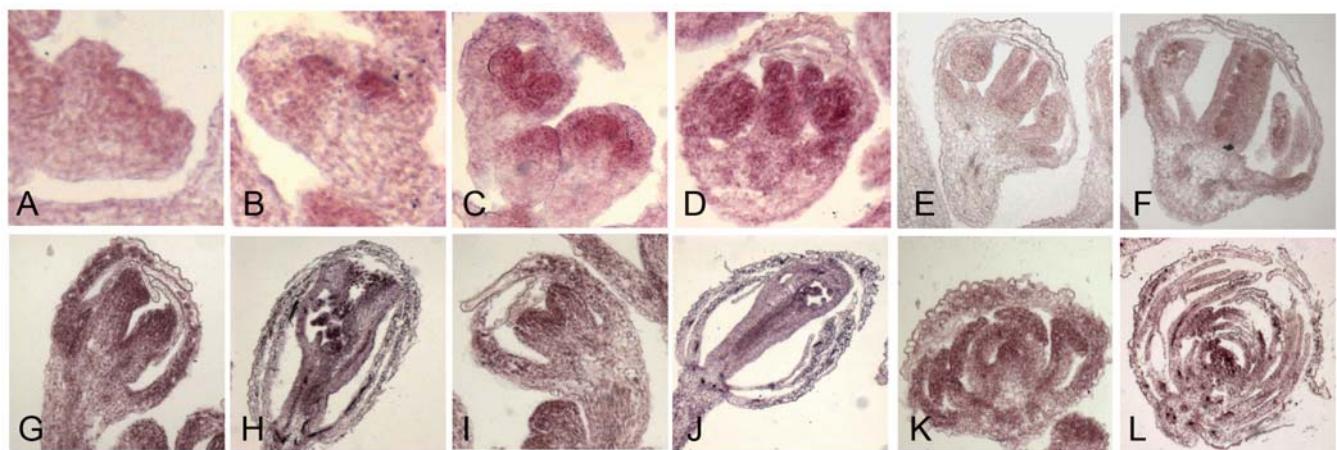
B



C

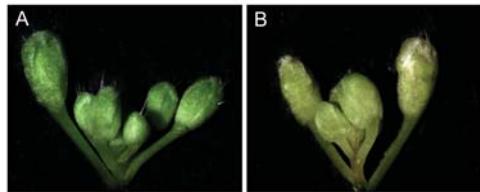


Supplemental Figure 2. Digital expression profiling of BNQ1 (At5g39860), BNQ2 (At5g15160) and BNQ3 (At3g47710).



Supplemental Figure 3. In situ expression analyses of BNQ2.

Expression in stage 4 (A), stage 5 (B), stages 4-6 (C), stage 7 (D), stage 8 (E) and late stage (F) WT flowers. Expression in early (G) and late (H) *ap3-3* mutant flowers, in early (I) and late stage (J) *pi-1* mutant flowers, and in early (K) and late stage (L) *ag-1* mutant flowers.



Supplemental Figure 4. Complementation analysis of *bnq3*.

Flower buds of *bnq3* homozygous plants transformed with 35S:BNQ3 (A) or p235 (empty vector) (B). Transgenic plants containing 35S:BNQ3 produce normal flowers with green sepals, indicating that the transgene can complement the pale phenotype of *bnq3*; the empty vector control does not show a similar rescue.

Supplemental Table 1.

RT-PCR primer sequences.

<i>BNQ1 F</i>	5'-GGCAATCTTCAAGTGCTCCAAG-3'
<i>BNQ1 R</i>	5'-TTCTAATAACGGCGGCTTCAGGGC-3'
<i>BNQ2 F</i>	5'-ATGTCTTCTAGCAGAAGGTCGAGACAAGCAAGCTCA-3'
<i>BNQ2 R</i>	5'-TTATCCATTAATCAAGCTCTAATAACTGCGGCTGTGG-3'
<i>BNQ3 F</i>	5'-ATGTCTAGCAGAAAATCACGTT-3'
<i>BNQ3 R</i>	5'-CTACTGCATAAGCAAACCTCG-3'
<i>At3g28857 F</i>	5'-AAAACAAGAAAATGTCTAACAGAAGA-3'
<i>At3g28857 R</i>	5'-CCAAAGTTCATAAAAGATAAAAGCA-3'
<i>At1g26945 F</i>	5'-AAGCTCCAACACCTCATCCCTGAAC-3'
<i>At1g26945 R</i>	5'-TTAATAATTAGCAAGCTCTAATGATGGCTG-3'
<i>At1g74500 F</i>	5'-ATGTCGGGAAGAAGATCACGTTGAGGCA-3'
<i>At1g74500 R</i>	5'-TTATTGGTAAGTAAGCTCTGATTAAGCAGCTTGTCA-3'
<i>Actin F</i>	5'-GATGGATCCTCCAATCCAGACACTGTA-3'
<i>Actin R</i>	5'-GTATTGTGTTGACTCTGGTATGGTGT-3'

Supplemental Table 2.

ChIP PCR primer sequences.

<i>BNQ1 F</i>	5'-TCACTTGTAAAATTATTCTATATTTCTG-3'
<i>BNQ1 R</i>	5'-ATAAACCTCGACAATGATGTCAC-3'
<i>BNQ2 F1</i>	5'-TCAAGCAAAGCTAGGACATGCTATTAAGGAA-3'
<i>BNQ2 R1</i>	5'-CCAAACAATCTTCACTGGATACATTGATAATTAT-3'
<i>BNQ2 F2</i>	5'-TTTCCAGTAATAGACTAAGTCTACTAAAGTTTTGA-3'
<i>BNQ2 R2</i>	5'-ATAAATACACCGAAGATAGATATATCTTCTATTTCTTATAATT-3'
<i>BNQ2 F3</i>	5'-CATCACGATCTGATAAATTGTAATTCA-3'
<i>BNQ2 R3</i>	5'-AGATAGAGAGAGAGAGAGAGCGAGAGT-3'
<i>BNQ3 F1</i>	5'-CCAAAAAAAATATGAAAGAAGGTATCCTCCAACATAATCAAAC-3'
<i>BNQ3 R1</i>	5'-TTCCACATTATTTTTTGCTAATCCAGTTTCATTTCATA-3'
<i>BNQ3 F2</i>	5'-ATAAATGGAAATGTTTCCTATATAAGTTAAAAACATAACGAGAC-3'
<i>BNQ3 R2</i>	5'-GACTAGTAGTCTTAACGAAAGGGAAAAAAACACTCTGAATA-3'
<i>BNQ3 F3</i>	5'-TAGAAAAACATATATAATTGCAATTATATTCCATGCATA-3'
<i>BNQ3 R3</i>	5'-ATTGTGAGTGCAAGTATTTCTTGTATGTTATTATATAAGAG-3'
<i>AP3 F</i>	5'-GATTAAACAGTGTCTGTAATTA-3'
<i>AP3 R</i>	5'-GATTGGTGGAGAGGACAAG-3'
<i>PIF</i>	5'-CATGCAAAGAGTGTCTTAAGC-3'
<i>PIR</i>	5'-GAAGAGAGAACTTGACAGTTG-3'
<i>AST101 F</i>	5'GACGATCCGGTTGAATGTC-3'
<i>AST101 R</i>	5'-CACAATGGTGAGATGGGAAC-3'

Supplemental Table 3.*In situ* probe primer sequences.

<i>BNQ1 F</i>	5'GCAATCTTCACAAGTGCTCCAAC-3'
<i>BNQ1 RT7</i>	5'-TATAATACGACTCACTATAGGGGTGAGGCTTCTATAACGGCG-3'
<i>BNQ2 F</i>	5'-CTTGAACAAGGAAGCCGATGACCTCA-3'
<i>BNQ2 RT7</i>	5'-ACTAATACGACTCACTATAGGGCTCGAAATCTTATTATTATAATT-3'
<i>BNQ3 F</i>	5'-ATGTCTAGCAGAAAATCACGTTCAAGA-3'
<i>BNQ3 RT7</i>	5'-ACTAATACGACTCACTATAGGGCTACTGCATAAGCAAACCTCGGATT-3'

Supplemental Table 4.

SALK line and RNAi line primer sequences.

98881LP	5'-ATGTCTAGCAGAAAATCACGTTCAAGACAA-3'
98881RP	5'-GTCGTTTTACGTAGTAAACTGCTCTGTAATAGAAGT-3'
Left Border LBA1	5'-TGGTTCACGTAGTGGGCCATCG-3'
Left Border LBB1	5'-GCGTGGACCGCTTGCTGCAACT-3'
BNQ1 (att39F)	5'-CCTACTTGCCACATAGACATAGCC- 3'
BNQ1 (att39R)	5' -ATGAGTAGGCTCTAATAACGGCG- 3'
BNQ2 (att15F)	5'GCAGGCTCTGAACAAGGAAGCCGA-3'
BNQ2 (att15R)	5'GCTGGTCTCGAAATCTTATTATTATAATT-3'

Supplemental Table 5.

Overexpression line primer sequences.

<i>BNQ1 F</i>	5'-TCTAGAGTGTATTCAAACCCAAAACACTT- 3'
<i>BNQ1 R</i>	5'-GGATCCACCTATGAAATTCTGTATGTCA- 3'
<i>BNQ2 F</i>	5'-TATCGTCTAGAGACAAGCACAAACAAAGCCATCAAGAG-3'
<i>BNQ2 R</i>	5'-CATTAGGATCCCTCGAAATCTTATTATAATTAAAGCTTAATGGAA-3'
<i>BNQ3 F</i>	5'-CGATATCTAGAATGTCTAGCAGAAAATCACGTTCAA-3'
<i>BNQ3 R</i>	5'-CTACTGGATCCCTACTGCATAAGCAAACCTCGGAT-3'

Supplemental Table 6.

Yeast-two-hybrid primer sequences.

<i>BNQ1 F</i>	5'-ACGTAGAATTCATGTGTCGAACAGAAGATCAAGGCAA-3'
<i>BNQ1 R</i>	5'-ATTCAGGATCCTTACATGAGTAGGCTTCTAATAACGGC-3'
<i>BNQ2 F</i>	5'-CAAGTGAATTCATGTCTCTAGCAGAAGGTCGAGACA-3'
<i>BNQ2 R</i>	5'-ATCATGGATCCTTATCCATTAATCAAGCTCTAATAACTGC-3'
<i>BNQ3 F</i>	5'-ATACCGAATTCATGTCTAGCAGAAAATCACGTTCAAGA-3'
<i>BNQ3 R</i>	5'-CTAAGGGATCCCTACTGCATAAGCAAACCTCGGATTAGT-3'
<i>At3g28857 F</i>	5'-ATACCGAATTCATGTCTAACAGAAGATCAAGACAAACTTCG-3'
<i>At3g28857 R</i>	5'-ATTCAAGGATCCTTACATGAGTAAGCTTCTAATCACGGC-3'
<i>At1g26945 F</i>	5'-CATATGGAATTCATGTCTAGCAGAAGATCATCACGT-3'
<i>At1g26945 R</i>	5'-TGATAGGATCCTAATAATTAAAGCAAGCTCTAATGAT-3'
<i>At1g74500 F</i>	5'-CGTATGAATTCATGTCGGGAAGAAGATCACGTT-3'
<i>At1g74500 R</i>	5'-CGTATGGATCCTATTGGTAAGTAAGCTCTGATTAAA-3'
<i>HFR1 F</i>	5'-CTATGGAATTCATGTGCAATAATCAAGCTTCATGGA-3'
<i>HFR1 R</i>	5'-GATCTGGATCCTCATAGTCTCTCATCGCATGGGA-3'
<i>PIL1 F</i>	5'-CATAGGGATCCGTATGGAAGCAAAACCCTTAGCA-3'
<i>PIL1 R</i>	5'-CTCGTGGATCCTAGTTGGCGAGCGATAATAACTA-3'
<i>PIL5 F</i>	5'-ATCGTGAATTCATGGATCCTCAGCAGCAACC-3'
<i>PIL5R</i>	5'-GATTAGAATTCTAACCTGTTGTGGTTCCG-3'
<i>PIF3 F</i>	5'-ACTATGGATCCGTATGCCCTCTGTTGAGCTTTCAAG- 3'
<i>PIF3R</i>	5'-ATCGTGAATTCTCACGACGATCCACAAAAGT-3'
<i>PIF4 F</i>	5'-CGATAGAATTCATGGAACACCAAGGTTGGAGTT-3'
<i>PIF4 R</i>	5'-TACTAGAATCCCTAGTGGTCCAAACGAGAACCGT-3'