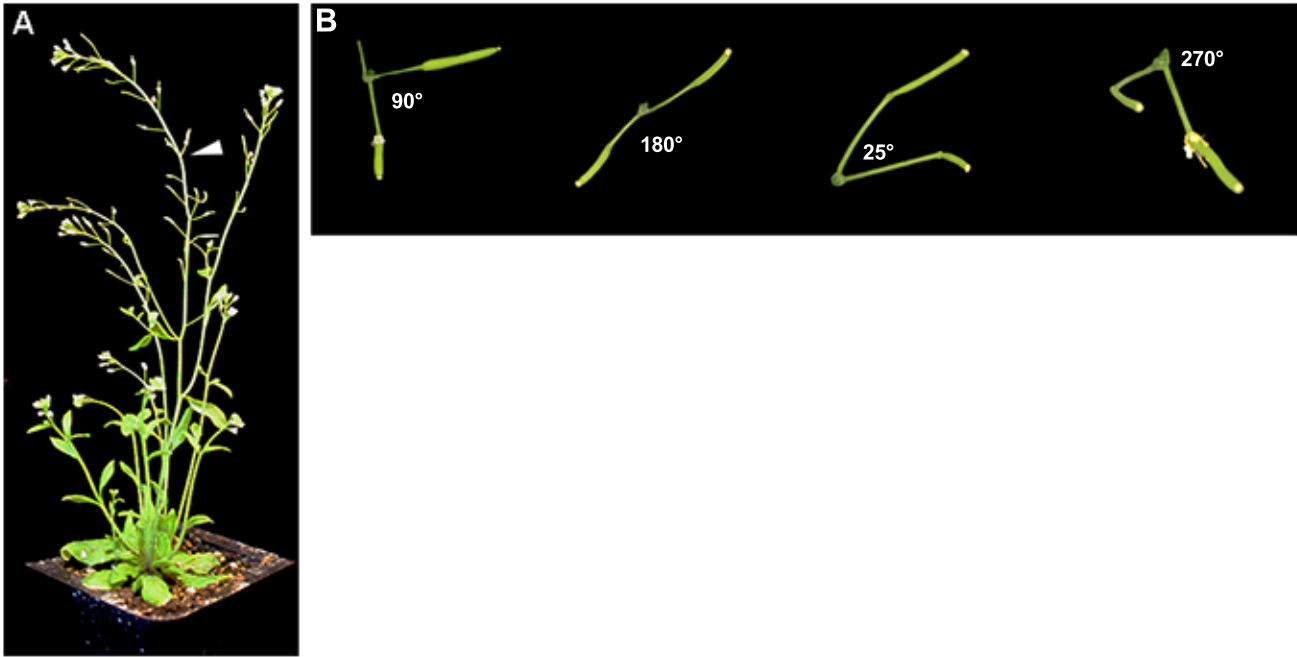


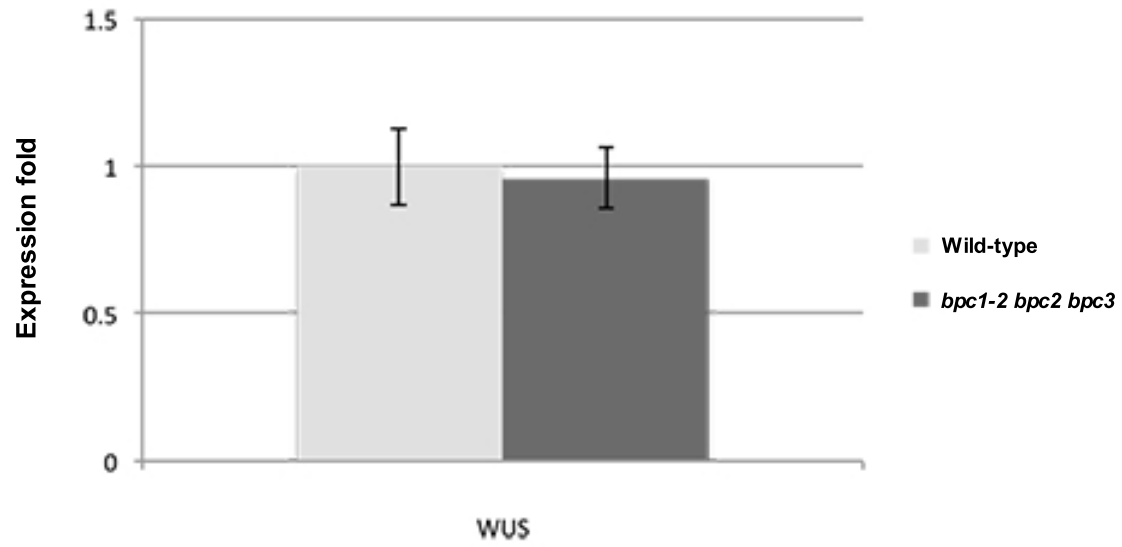
Supplementary Figure 1



Supplementary Figure 1. Angle divergence in *bpc1-2 bpc2 bpc3* mutant

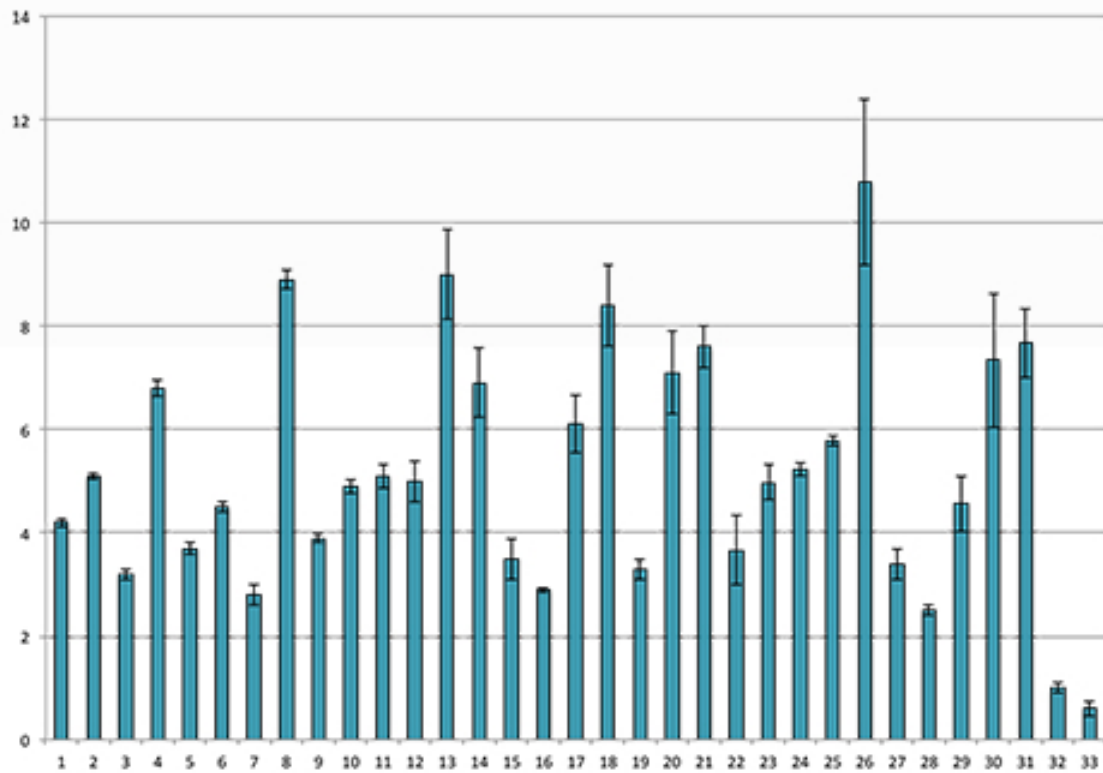
- (A) *bpc1-2 bpc2 bpc3* plant. Siliques are randomly positioned along the stem and two siliques arising from the same internode can be frequently observed (arrowhead).
- (B) Four examples of divergence angles frequently found in the *bpc1-2 bpc2 bpc3* mutant: from left to right 90°, 180°, 25°, 270°.

Supplementary Figure 2.



Supplementary Figure 2. Expression level of *WUS* in *bpc1-2 bpc2 bpc3* mutant.

Supplementary Figure 3



Supplementary Figure 3. Expression level of BPC1-Ear Motif in plants with strong phenotype.

From number 1 to number 31: *35S::BPC1 Ear Motif* plants with phenotype.

Numbers 32 and 33: *35S::BPC1 Ear Motif* plants with wild-type phenotype.

Supplementary table 1. HOMEODOMAIN genes with GAGA stretch in their promoter sequence (500bp upstream the transcription start site). Green box: at least one GAGA stretch found. Red box: no GAGA sequence found.

Locus	Gene Name	GAGA	Locus	Gene Name	GAGA
At4g00730	ANL2	Green	At1g73360	HDG11	Green
At4g32980	ATH1	Red	At1g27050	ATHB54	Red
At3g01470	Athb-1	Green	At1g70920	ATHB18	Green
At1g79840	Athb-10	Green	At1g05230	HDG2	Green
At3g61890	Athb-12	Green	At1g34650	HDG10	Red
At1g69780	Athb-13	Green	At2g18550	ATHB21	Green
At2g34710	PHB	Green	At2g32370	HDG3	Red
At1g52150	CNA	Green	At2g36610	ATHB22	Red
At4g40060	Athb-16	Green	At3g03260	HDG8	Green
At2g01430	Athb-17	Green	At4g36740	ATHB40	Red
At4g16780	Athb-2	Red	At5g17320	HDG9	Red
At5g15150	Athb-3	Green	At5g52170	HDG7	Red
At2g44910	Athb-4	Green	At5g03790	ATHB51	Red
At5g65310	Athb-5	Green	At5g66700	ATHB53	Red
At2g22430	Athb-6	Green	At5g46880	HDG5	Green
At2g46680	Athb-7	Red	At1g28420	HB-1	Red
At4g32880	Athb-8	Green	At1g75430	BLH11	Green
At1g30490	PHV	Green	At2g16400	BLH7	Red
At4g21750	ATML1	Green	At2g27220	BLH5	Red
At5g41410	BEL1	Green	At2g35940	BLH1	Green
At4g36870	BLH2	Green	At4g34610	BLH6	Red
At1g75410	BLH3	Green	At5g44180		Red
At2g23760	BLH4	Green	At5g46010		Red
At1g19700	BLH5	Red	At4g03250		Red
At5g02030	BLR	Green	At5g53980	ATHB52	Green
At4g25530	FWA	Red	At4g04890	PDF2	Green
At4g17460	HAT1	Red	At2g27990	POUND-FOOLISH	Red
At5g06710	HAT14	Red	At4g29940	PRHA	Green
At5g47370	HAT2	Green	At5g60690	REV	Green
At4g37790	HAT22	Green	At1g62360	STM	Green
At3g60390	HAT3	Red	At3g18010	WOX1	Green
At3g19510	HAT3.1	Green	At1g20710	WOX10/WOX13B	Green
At2g22800	HAT9	Red	At3g03660	WOX11	Red
At3g61150	HD-GL2-1	Green	At5g17810	WOX12	Red
At4g08150	KNAT1 (BP)	Green	At4g35550	WOX13	Red
At1g70510	KNAT2	Green	At1g20700	WOX14	Red
At5g25220	KNAT3	Green	At5g59340	WOX2	Green
At5g11060	KNAT4	Green	At2g28610	WOX3	Green
At4g32040	KNAT5	Green	At1g46480	WOX4	Red
At1g23380	KNAT6	Green	At3g11260	WOX5	Red
At1g62990	KNAT7	Green	At2g01500	WOX6	Red
At4g02560	LD	Green	At5g05770	WOX7	Red
At4g17710	HDG4	Red	At5g45980	WOX8	Red
At1g26960	ATHB23	Red	At2g33880	WOX9	Green
At3g01220	ATHB20	Green			
At1g17920	HDG12	Green			

Supplementary table 2. Primer used in this manuscript.

Gene	Primer sequences
<i>BPC1-EAR motif</i> construct	Fw- CACCATGGACGATGATGGATTTTCGC Rev- CTAAGCAAATCCAAGTCTAAGTTCAAGATC AAGATCAAGTCTGATCGTGACAAACTTATTGG
<i>BPC1-EAR motif</i> expression	Fw- GCTCTTGTTTTCTTCATTGATCG Rev- CAAGATCAAGATCAAGTCTGATCGTGACAAACTTATTGG
<i>KNAT4</i> promoter	Fw- CGTCAAACACACATACACATCG Rev- GATGTTGTTGTTGGTCGGTG
<i>KNAT5</i> promoter	Fw- ACTCTCCCGTCACATTCTGG Rev- GTCTTGGATTAGTTGAGCGG
<i>KNAT6</i> promoter	Fw- CGACCTATGAAGCCTGAAGC Rev- CTCCTCCGTCTTCTAAATCGC
<i>KNAT7</i> promoter	Fw- GGACCAGACCCGTGTATAAC Rev- TACCTAGTGCCGCTTCTTGC
<i>BP</i> promoter	Fw- TCAATCCACTCAAGCCACCC Rev- TCGTCAAGGAAGTGACATGG
<i>BP</i> expression	Fw- CACCGTCTGTCTCTGCCTCC Rev- TCCCCTCCGCTGTTATTCTC
<i>STM</i> promoter	Fw- CTTACTCTTTTAGGGTTTCC Rev- ATCATAGGACACATCGGACC
<i>STM</i> expression	Fw- CCTCACCTTCCTCTTTCTCC Rev- TGTTGACGAGCTTCTTTAGG
<i>WUS</i> promoter	Fw- AAGCACATTTTTCAATAGGG Rev- CGGCTTGATGATGATGATGC
<i>WUS</i> expression	<i>Gregis et al., 2013</i>
<i>WOX3</i> promoter	Fw- TGGGAGCATATGAGATTGGG Rev- CGGCTTGATGATGATGATGC
<i>WOX9</i> promoter	Fw- ATGAAAACAGGTTGGGTAGG Rev- AGAGACAGGGAACAGAATGG
<i>RPL</i> promoter	Fw- TGCTCATACTAAATTCCTCC Rev- GGATGATGTCGATGAGATGC
<i>BLH1</i> promoter	Fw- GCGTACTAAGGACTGTGGG Rev- ATCATCTCAAGCTGCAAAGG
<i>CRN</i> promoter	Fw- CTTTACAGGCATTATTGGG Rev- GGAATGGGGAAGGTCAGAGG
<i>ARR7</i> promoter	Fw- AAAGTTCCAGGTCACGAGGG Rev- AGGTGGTGGGGTTTAATAAG
<i>IPT7</i> expression	<i>Takano et al., 2010</i>