

Figure S1 Cis-elements in zein-gene promoters.

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ZM27  --AAAAATAA-AATAGGCCGGACAG--GACAAAAATCCTTGACGTGTAAGTAAATTTAC -267
SB27  GTAAAAACAA-AGTAGGCCGGAGAGAGGACAATAATCCTTGACGTGTAAGTGAATTTAC -250
ZM16  --AAAAGCAAGAGTAGGACGGAGAG--GAAAATAATCCTTGACG-----ACGTGC -183
      ***** ** * ***** ** ** ** ***** ** ** * * *

ZM27  AACAAAAAAAAGCCATATGTCAAGCTAAATCTAATTCGTTTACGTAGAT--CAACAACC -209
SB27  AA-----AGCCATATATCAATTTATATCTAATTCGTTTCATGTAGATATCAACAACC -198
ZM16  A-----CATGAGCCA----- -173
      *           ***      **

ZM27  TGTAGAAGGCAACAAAAGCTGAGCCACGCAGAAGTACAGAATGATTCAGATGAACCATCG -149
SB27  TGTAAAAGGCAACAAA-TTGAGCCACGCAAAATTACA-AGTGAGTCCAAATPAAACCTC- -141
ZM16  -----CACGCAAGAGTACTGAATAAATCCAGATGAACCTCC -136
      ***** * *** * * * ***** ** ***** **

ZM27  ACGTGCTACGTAAAGA-GAGTGACGAGTCATATACATTTGGCAAGAAACCATGAAGCTGC -90
SB27  ACATGCTACATAAAAAGTGAATGATGAGTCATGTATATCTGGCAAGAAACTGTAGA---AG -84
ZM16  AAAAG-TGAATGAGAT-GAGTCATG-----TATACATTTGGCAAGAAACCGTAGA---AG -86
      * * * * * * * * * * * * * * * * * * * * * * * * * * *

ZM27  CTACAGCCGTCTCGGTGGCATAAAGAACACAAGAAATTGTGTTAATTAATCAAAGCTATAAA -30
SB27  CTACAGTCATC--GGTAGCAAAGAAACACAAGAAAATGTGCTAATAA----AAGCTATAAA -30
ZM16  CTACCGCCATC--GATTCATCATAGAAGAAGAAATTGTGGTAATCGG--AAAGCTATAAA -30
      ***** * * * * * * * * * * * * * * * * * * * * * * * * * * *
                                +1 Transcription Start

ZM27  ATAACGCTCGCATGCCTGTGCACTTCTCCATCACCACCACTGGGTCT---TCAGACCATT 28
SB27  ATAACCCCTCGTACGCCTATGCACATCTCCATCACCACCACTGGTCTTCATTCAGCCTATT 31
ZM16  ATAACCGCTCGTATGCCTATGCACCTTCTCCACCACCACCACTGGACGTCAGCCTAGCAATT 31

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Figure S2 Alignment of the 27- and 16-kDa γ -zein and 27-kDa γ -kafirin promoters.

1 2 3 4 5 6
 C A C G G T G A G T C A T G C C G A G A T C A T
 7 8 9 10 11 12
 A C T C A T C T G A T A T A C A T G C T T A C A
 13 14 15 16 17 18 19
 G C T C A C A A G A C A T T A C A A A C A A C T
 20 21 22 23
 C A T A T T G C A T T A C A A A G A T C G T T T
 24 25 26 27
 C A T G A A A A T A A A A T A G G C C G G A C
 28 29 30 31
 A G G A C A A A A A T C C T T G A C G T G T A A
 32 33 34
 A G T A A A T T T A C A A C A A A A A A A A G C
 35 36 37 38 39
 C A T A T G T C A A G C T A A A T C T A A T T C
 40 41 42 43 44
 G T T T T A C G T A G A T C A A C A A C C T G T
 45 46 47 48 49 50
 A G A A G G C A A C A A A A C T G A G C C A C G
 51 52 53 54
 C A G A A G T A C A G A A T G A T T C C A G A T
 55 56 57 58 59 60
 G A A C C A T C G A C G T G C T A C G T A A A G
 61 62 63
 A G A G T G A C G A G T C A T A T A C A T T T G
 64 65 66 67 68 69 70
 G C A A G A A A C C A T G A A G C T G C C T A C
 71 72 73 74 75 76
 A G C C G T C T C G G T G G C A T A A G A A C A
 77 78
 C A A G A A A T T G T G T T A A T T A A T C A A
 79 80 81 82 83 84 85
 A G C T A T A A A T A A C G C T C G C A T G C C
 86 87 88 89 90
 T G T G C A C T T C T C C A (Transcription Start Site)

Figure S3 Cytosines in the 27-kDa γ -zein promoter. The 421-bp fragment immediately upstream of the transcription start site contains 90 cytosines, covering the P-box, O2-like box and TATA box. P-box, "ACGT" core motif and TATA box are shaded. The cytosine positions indicated in Figs. 4a and S6d are numbered in the sequence.

	1 2 3 4	
Zp22/6	TGTGTAAAGGTGAAGAGATCTTGCATGTCATTTC	
azs22.11	TGTGTAAAGGTGAAGAGATGATGCATGTCAT-C	
azs22.12	TGTGTAAAGGTGAAGAGATGATGCATGTCAT-C	
azs22.13	TGTGCAAAGGTGAAGAGATCATGCATGTCATTTC	
azs22.4	TGTGTAAAGGTGAAGAGATCATGCATGTCATTTC	
azs22.1	TGTGTAAAGGTGAAGCGATCATGCATGTCATTTC	
azs22.3	TGTGTAAAGGTGAAGAGATCATGCATGTCATTTC	
azs22.5	TGTGTAAAGGTGAAGAGATCATGCATGTCATTTC	
azs22.19	TGTGTAAAGGTGAAGAGATCATGCATGTCATTTC	
azs22.7	TGTGTAAAGGTGAAGAGATCATGCATGTCATTTC	
azs22.8	TGTGTAAAGGTGAAGAGATCATGCATGTCATTTC	
azs22.2	TGTGTAAAGGTGAAGCGATCATGCATGTCATTTC	
azs22.20	TGTGTAAAGGTGAAGAGATCATGCATTTCATTTC	
azs22.6	TGTTTAAAGGTGAAGAGATCATGCATGTCATTTC	
azs22.9	TGTGTAAAGGTGAAGAGATCATGCATGTCATTTC	
azs22.16	TGTGTAAAGGTGAAGAGATCATGCATGTCATTTC	
	5 6 7 8 9 10	
Zp22/6	CACGTAGAT-AAAAAGAATGCATATATAAAAAATGGCACATTTTCTTGTAGGTAGTGGAAA	
azs22.11	CAAGTATATGAAAAAT-AATTCCTATA-GAAAAATGACACTTTTTCTTATAGGTAGTGGAAA	
azs22.12	CAAGTATATGAAAAAG-AATTCCTATA-GAAAAATGACAATTTTTCTTGTAGGTAATGGAAA	
azs22.13	CTCATGTATGAAAAAG-AATTCCTATA-GAAAAATGACGAATTTTTCTTGTAGGTAGTGGAAA	
azs22.4	CACGTAGATGAAAA--AATTCCTATAAAAAATGACACCTTTTTCTTGTAGGTAGTGGAAA	
azs22.1	CACGTAGATGAAAAAATTCCTATAAAAAATGACAATTTTTCTTGTAGGTAGTGGAAA	
azs22.3	CACGTAGATGAAAAAG-AATTCCTATAAAAA-TGACACCTTTTTCTTGTAGGTAGTGGAAA	
azs22.5	CACGTAGATGAAAAAG-AATTCCTATAAAAA-TGACACCTTTTTCTTGTAGGTAGTGGAAA	
azs22.19	CACGTAGATGAAAAAG-AATTCCTATAAAAA-TGACACCTTTTTCTTGTAGGTAGTGGAAA	
azs22.7	CACGTAGATGAAAAAG-AATTCCTATAAAAA-TGACACCTTTTTCTTGTAGGTAGTGGAAA	
azs22.8	CACGTAGATGAAAAAG-AATTCCTATAAAAA-TGACACCTTTTTCTTGTAGGTAGTGGAAA	
azs22.2	CACATAGATTAATAAAA-AAATCCTATATAAAAAATGACAATTTTTCTTGTAGGTAGTGGAAA	
azs22.20	CACGTAGATAAAAAAG-AGTTCCTATAAAGAATGGCACATTTTCTTGTAGGTAGTGGAAA	
azs22.6	CACGTAGATGAAAAAG-AATTCCTATAAAAA-TGACACATTTTCTTGTAGGTAGTGGAAA	
azs22.9	CACGTAGATAAAAAAG-AATGCCTATAAAAAATGGCACATTTTCTTGTAGGTAGTGGAAA	
azs22.16	CACATAAATGAAAAAG-AATTCCTATAAAAAATGACATGTTTTGTGTAGGTAGTGGAAA	
	11 1213 14 1516 1718 19 20	
Zp22/6	GTATCTTTCCAGCTAAGACC----ATATAATCCGATAAAGGTGATAACTAAATGTCGAAA	
azs22.11	CTATCTTTCTA-----TATAATCCGATGAAACCGATAACTAAATGTCGAAA	
azs22.12	CTAGCTTTCCAGCAAAGACCA----TATAATCTGATGAAACTGATAACCAAATGTCGAAA	
azs22.13	CTATCTTTATAGCAAAGTCCA----TATAATCATATGAAACTGATGACTAAATGTCAAAA	
azs22.4	GTACCTTTCCAGCAAAGATCATATATATAATCCGATAAAGCTGAAAACTAAATGTCGAAA	
azs22.1	CTATCTTTCTAGCAAAGACCATATATATAATCCGATAAAGCCGATAACTAAATGTCGAAA	
azs22.3	GTATCTTTCCAGCAAAGACCATATA----ATCCGATAAAGTTGATAACTAAATGTCAAAA	
azs22.5	GTATCTTTCCAGCAAAGACCATATA----ATCCAATAAAGTTGATAACTAAATGTCGAAA	
azs22.19	GTATCTTTCCAGCAAAGACCATATA----ATCCGATAAAGTTGATAACTAAATGTCAAAA	
azs22.7	GTATCTTTCCAGCAAAGACCATATA----ATCCGATAAAGTTGATAACTAAATGTCGAAA	
azs22.8	GTATCTTTCCAGCAAATACCATATA----ATCCGATAAAGCCGATAACTAAATGTCGAAA	
azs22.2	GTATCTTTCCAGCAAAGACTATATATAATCCGATAAAGCCGATAACTAAATGTCAAAA	
azs22.20	GTATCTTTCCAGCAAATACCATATA----ATCCGATAAAGATGATAACTAAATGTCGAAA	
azs22.6	GTATCTTTCCAGCAAAGACTATA----ATCCGATAAAGTTGATAACTAAATGTCGAAA	
azs22.9	GTATCTTTCCAGCAAAGACCATATA----ATCCGATAAAGCTGATAACTAAATGTCGAAA	
azs22.16	TTATCTTTCCAGCAAAGACCATATA----ATCCGATAAAGCTGATAACTAAATGTCAAAA	
	21 2223 24 25 2627 28 29	
Zp22/6	TCGAGTAGATGCCATATCATCTATACCTTATCTGTTGTTGG--AAAAAAGACAAAAT	
azs22.11	TTGAGTAGGTGCCATATCATCGATAGCTTATCTATTGTTTGGC--AAAA--GACAAAAT	
azs22.12	TTGAGTAGGTGCCATATCATCTGATAGCTTATCTATTGTTTGGC--AAAA--GATAAAAT	
azs22.13	TTGAGTAGGTGCCATATCATCTATAGCTTATCCATTGTTGGGA--AAAA--TACAAAAT	
azs22.4	TCGAGTAGATGCCATATCATCTATACCTTATCTCTTGTGGGA--AAAA--GACAAAAC	
azs22.1	TCGAGTAGATGCCATATCATCTATACCTTATCTGTTGTTGG--AAAA--GACAAAAT	
azs22.3	TAGAGTAGATGCCATATCATATATACCTTATCTGTTGTTGGGA--AAAAAAGACTAAAT	
azs22.5	TAGAGTAGATGCCATATCATTTTATACCTTATCTGTTGTTGGGA--AAAAA-GACTAAAT	

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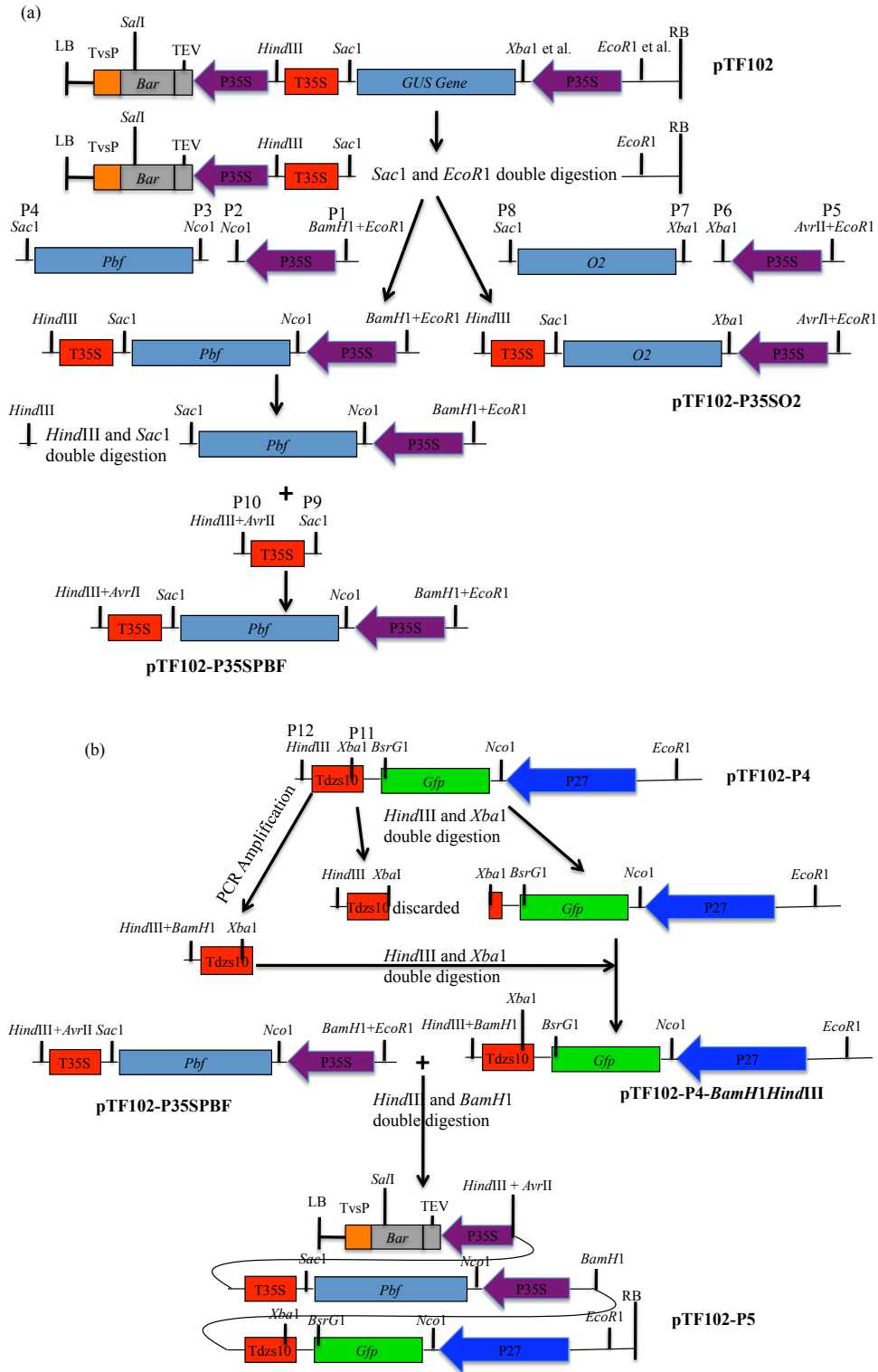
azs22.19 TAGAGTAGATGCCATATCATCTATACCTTATCTGTTGTTTGGGA--AAAA---GACTAAAT
azs22.7 TAGAGTAGATGCCATATCATCTATACCTTATCTGTTGTTTGGGA--AAAA---GACTAAAT
azs22.8 TCGAGTAGATGCCATATCATCTATACCTTATCTGTTGTTTGGGA--AAAA---GACAAAAAT
azs22.2 TCGAGTAGATGCCATATCATCTATACCTTATCTGTTGTTTGGGA--AAAA---GACAAAAAT
azs22.20 TCGAGTAGATGCCATATCATCTATACCTTATCTGTTGTTTGGGA--AAAA---GACAAAAAT
azs22.6 AAGAGTAGATGCCATATCATCTATACCTTATCTGTTGTTTGGGA--AAAA---GACTAACT
azs22.9 TCGAGTAGATGCCATATCATCTATACCTTATCTGTTGTTTGGAAAAAAGACAAAAAT
azs22.16 TCGAGTAAGTGCCATATCATCTATACCTTATCTGTTGTTTGGGA--AAAA---GACAAAAAT

3031 32333435 36373839 40
Zp22/6 CCAAAAAA-TTTATAT----GAGATCTCACCTATATAAAATAGCGCCCAAATCAGTAGTTA
azs22.11 CCAATATATATATATAT----GAGATCTCACATGTATGAATATCTCCCAAATCAGTAGTTA
azs22.12 CCAATATATATATATATATGAGATCTCACCTATATAAAATATCTCCCAAATCAGTAGTTA
azs22.13 CCAAAAA-ATATATAT----GAGACCTCACCTGTATATAAACCACCAAATCAGTAGTTA
azs22.4 CAAAAA--TATTTAT----GAGGTCCTCACTTGTATAAAATAGCTCCCAAATCAGTAGTTA
azs22.1 CCAAAAA-ATATATAT----GAGATCTCACTTGTATGAATAGCTCCCAAATCAGTAATTA
azs22.3 CCCAAAA-ATATATAT----GAGATCTCACTTGTATAAAATAGCTCCCAAATTAGTAGTTA
azs22.5 CC--AAA-ATATATAT----GACATCTCACTTGTATAAAATAGCTCCCAAATCAGCAGTTA
azs22.19 CCAAAAA-ATATATAT----GAGATCTCACTTGTATAAAATAGCTCCCAAATCAGTAGTTA
azs22.7 CCAAAAAATATATATAT----AAGATCTCACTTGTATAAAATAGCTCCCAAATTAGTAGTTA
azs22.8 CCAAAAA-ATATATTT----GAGACCTCACCTGTATAAAATAGCTCCCAAATCAGTAGTTA
azs22.2 CCAAAAAAATATATAT----GAGATCTCACTTGTATAAAATAGCTCCCAAATCAGTAGTTA
azs22.20 CCAACAA-AAATATTC----GAGACCTCACCTATATAAAATAGCTCCCATATCAGTAGTTA
azs22.6 ACAAAAA-ATATATAT----GAGATCTCACTTGTATAAAATAGCTCCCAAATCAGTAGTTA
azs22.9 CCAAAAAAATATATAA----GAGATCTCACCTATATAAAATAGCTCTGAAATCAGTAGTTA
azs22.16 CCAAAAAAATATAT----GAGATCTCACATGTATAAAATAGCTCCCAAATCAGTAGTTA

4142
Zp22/6 ATCCA
azs22.11 ATTCA
azs22.12 ATCCA
azs22.13 ATTCA
azs22.4 ATCCA
azs22.1 ATCCG
azs22.3 A-CCA
azs22.5 A-CCA
azs22.19 A-CCA
azs22.7 A-CCA
azs22.8 ATCCA
azs22.2 ATCCA
azs22.20 ATCCA
azs22.6 A-CCA
azs22.9 ATCCA
azs22.16 ATACA

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Figure S4 The alignment of the 22-kDa α -zein promoters from B73 and the copy Zp22/6 from BSS53. The cytosine positions indicated in Figs. 4b, 7c and 9 are marked in the corresponding places; P-box and “ACGT” core motif are shaded.



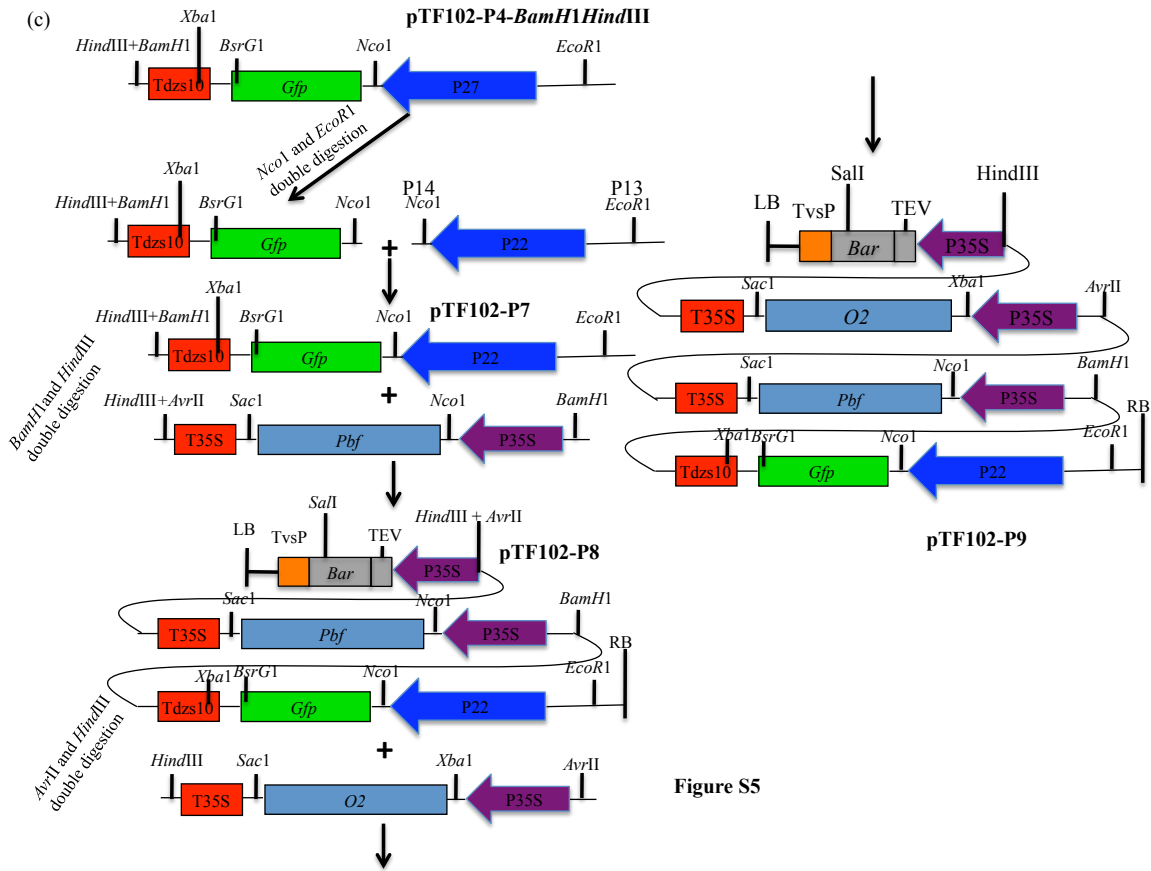


Figure S5 Strategies of plasmid construction. (a) P35SPBF and P35SO2 cassettes. (b) pTF102-P5. (c) pTF102-P9. Primers P1-P14 used for plasmid construction are indicated in the corresponding step.

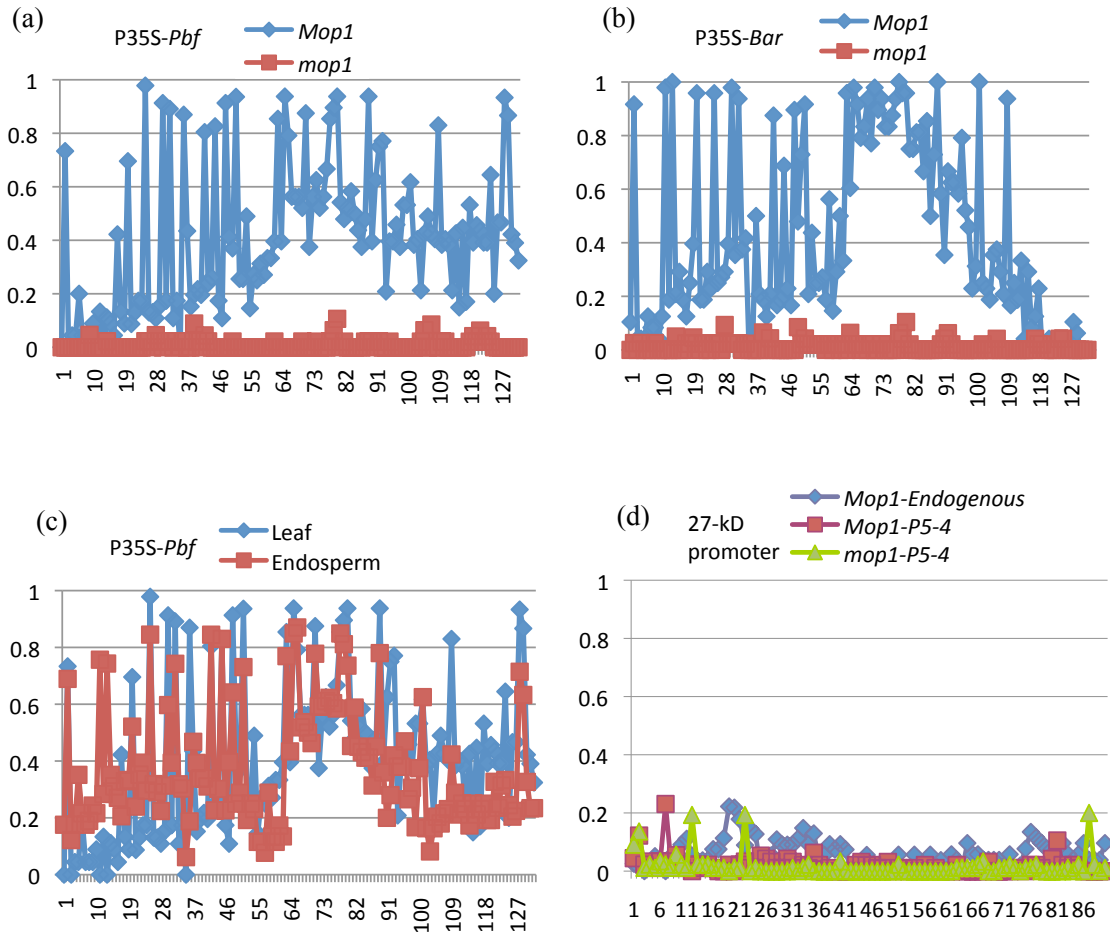


Figure S6 DNA methylation of 35S and transgenic 27-kDa γ -zein promoters in *Mop1-P5-4* and *mop1-P5-4*. (a) The 35S promoter driving the *Pbf* gene in *Mop1-P5-4* and *mop1-P5-4*. (b) The 35S promoter driving the selective marker *Bar* gene in *Mop1-P5-4* and *mop1-P5-4*. (c) The 35S promoter driving the *Pbf* gene in *Mop1-P5-4* leaf and endosperm. (d) The transgenic 27-kDa γ -zein promoter driving the *Gfp* gene.

G A G C A A T G T A T T G G T T G T G A G T T T
 T T G A C G G C G C T C A C A G T G A T A G A T
 T T G T T A T C T A T A T G C C A G C C C A G
 C A T A T T C A T C T T G T G C T G T G G G C
 G T C T A G A G G A C C G A C A A T A T A T A T
 A T T T T A A A C A A A T T C G T G A A G A
 A C A T C A C A A G T T A T G C A T G C A A A C
 T G C T C A A G T C A T G T G G A T C C A A G G
 C A T C C T A A C A A C T A G C A C A G C A T T
 A C A A C A A A T A T T G G T G T A T A T G T
 G C C T A C A A T G A A G T G A A A G G T G A T
 G A G T C A T G G T G A T G T G T A A A G A G G
 C A T T A C A A A G T T A G C T T C A C A A G C
 G T A T G A A T T C A T T G A C A A C C C T T G
 A C A T G T A A A G T T G A T T C A T A T G T A
 T A A G A A A G C T T A A T G A T C T A T C T G
 T A A A T C C A A A T C C A T G T A C T A T G T
 T T C C A C G T C A T G C A A C G C A A C A T T
 C C A A A A C C A T G G G T T G C A A G A T G C
 T G C A G A A T G C A A G C C A T G G A T C A T
 C T A T A A A T G G C T A G C T C C C A C A T A
 T G A A C T A G T C T T A T C A T C A T C C A
 A T C C A G A T C A G C A A A G C G G C A G T G
 C G T A G A G A G G A T C G T C G A A C A G A A
 C A G C A T G

Figure S7 Cytosines in β -zein promoter. The 559-bp fragment upstream of the start codon contains 110 cytosines, covering the P-box, O2 box and TATA box. P-box, "ACGT" core motif and TATA box are shaded. The cytosine positions indicated in Fig. 11b are numbered in the sequence.

Table S1 List of primers

Primer	Sequence	Note
pbfBamH1	5'-AATTGGATCCACTAACCTTATTGTCCCTTG-3'	
pbfBspE1	5'-TATATCCGGAATGGACATGATCTCCGGCAG-3'	<i>Pbf</i> RNAi construct
pbfBbIII	5'-AATAAGATCTATGGACATGATCTCCGGCAG-3'	
pbfSac1	5'-AATTGAGCTCACTAACCTTATTGTCCCTTG-3'	
Umc1066F	5'-ATGGAGCACGTCATCTCAATGG-3'	<i>O2</i> polymorphic markers
Umc1066R	5'-AGCAGCAGCAACGTCTATGACACT-3'	
P1	5'- TATATGAATTC AAGGATCCGCATGCCGGTCAACATGGTG -3'	P35S forward, <i>EcoR1</i> and <i>BamH1</i> introduced
P2	5'- AAATCCATGGTAGATCCCCGTTTCGTAATG -3'	P35S reverse, <i>Nco1</i> introduced
P3	5'- ATTACCATGGACATGATCTCCGGCAG -3'	<i>Pbf</i> CDS forward, <i>Nco1</i> introduced
P4	5'- AATTGAGCTCACTAACCTTATTGTCCCTTG -3'	<i>Pbf</i> CDS reverse, <i>Sac1</i> introduced
P5	5'- TATATGAATTC AACCTAGGGCATGCCGGTCAACATGGTG -3'	P35S forward, <i>EcoR1</i> and <i>AvrII</i> introduced
P6	5'- AAATCTAGAGGTAGATCCCCGTTTCGTAATG -3'	P35S reverse, <i>Xba1</i> introduced
P7	5'- ATTATCTAGACCATGGAGCACGTCATCTCAATG -3'	<i>O2</i> CDS forward, <i>Xba1</i> introduced
P8	5'- TAATGAGCTCCTTATTCAGCGACGCTG -3'	<i>O2</i> CDS reverse, <i>Sac1</i> introduced
P9	5'-TATAGAGCTCGGCGCAAAAATCACCAGTC-3'	T35S forward, <i>Sac1</i> introduced
P10	5'- ATT AAGCTTAATTCTAGGTGCAGGTCAGTGGATTTTGG -3'	T35S reverse, <i>HindIII</i> and <i>AvrII</i> introduced
P11	5'- AAAGCTGTACAAGTAAATAGAAATATTTGTGTTGTATCG -3'	Terminator of 10-kDa δ -zein gene, forward
P12	5'- ATCAAGCTTACTAGTGGATCCTACCAGCTGAGAATTAGGAG -3'	Terminator of 10-kDa δ -zein gene, reverse, <i>HindIII</i> and <i>BamH1</i> introduced
P13	5'- ATTTGAATTCGTCCACGCGCAAATAGACC -3'	22-kDa zein promoter forward, <i>EcoR1</i> introduced
P14	5'- TAATCCATGGTTGTTTGGTCTGTTGCTAGTG -3'	22-kDa zein promoter

		reverse, <i>Nco</i> 1 introduced
γ 50F	5'-ATGAAGCTGGTGCTTGTGGTTC-3'	
γ 50R	5'-TAATGTCATTGCTGCTGCATGG-3'	For γ 50 RT-PCR
γ 27F	5'-ATGAGGGTGTGCTCGTTGC-3'	
γ 27R	5'-ACTCAACTAGCTAGCTAGCC-3'	For γ 27 RT-PCR
α 22F1	5'-ACACCATATGTTTCATTATTCCACAATGCTCA-3'	
α 22R1	5'-TTAAGGATCCTATATAATCTAAAAGATGGCA-3'	For α 22 RT-PCR
α 19AF	CTCTTAa/gATTAGTAGCTAATat/cATC	
α 19AR	CTGGGAAGCCACAAACATCA	For α 19A RT-PCR
α 19BDF	ATTAGTCGGTAATCCATCAACC	
α 19BDR	CTAGAAGATGGCACCACCAATG	For α 19B and D RT-PCR
δ 18F	5'-CGCCATGGCAGCCAAGATG-3'	
δ 18R	5'-ATGCCGACTTCATTATTGGG-3'	For δ 18 RT-PCR
γ 16F	5'-TCGACACCATGAAGGTGCTG-3'	
γ 16R	5'-TGGTGATGGGTGACACTACG-3'	For γ 16 RT-PCR
β 15F	5'-AGGATCGTCGAACAGAACAGC-3'	
β 15R	5'-AGATGGATAGAGGAGATTTCCC-3'	For β 15 RT-PCR
δ 10F	5'-ATACTCTAGGAAGCAAGGAC-3'	
δ 10R	5'-TAAGAACATGGGTGGAATCG-3'	For δ 10 RT-PCR
δ 18-10F	5'-CGCCATGGCAGCCAAGATG-3'	Common primer pair for
δ 18-10R	5'-TATCTAGAATGCAGCACCAAC-3'	δ 18 and δ 10 RT-PCR
PbfF	5'-ATGGACATGATCTCCGGCAG-3'	
PbfR	5'-ACTAACCTTATTGTCCCTTG-3'	For <i>Pbf</i> RT-PCR
O2F	5'-ATGGAGCACGTACTCTCAATG-3'	
O2R	5'-CCTTATTCAGCGACGCTG-3'	For <i>O2</i> RT-PCR
GFPF1	5'-ATGGTGAGCAAGGGCGAGG-3'	
GFPR1	5'-TACTTGTACAGCTCGTCC-3'	For <i>Gfp</i> RT-PCR
P22F1	5'-ACATGTGTAAAGGTGAAGAG-3'	
GFPR2	5'-GTGAGCAAGGGCGAGGAGCT-3'	
P22bisulF	5'-ATATGTGTAAAGGTGAAGAG-3'	
α 22bisulR	5'-CTAATATCTTAATAACCATT -3'	
GFPbisulR	5'-AACTCCTCACCTTACTCAC-3'	
P27bisulF	5'-GAAATATGGTGAGTTATGTTGAG-3'	
γ 27bisulR	5'-AAAACAACAAACAACCCCTC-3'	
P35SbisulF	5'-ATGTTGGTTAATATGGTGGAG-3'	
BarbisulR	5'-ACCACCAACATATCCACCTC-3'	
PbfbisulR	5'-CTTTAAATCCCTAACTTCTCC-3'	

β15bisulF

5'- GAGTAATGTATTGGTTGTGAG -3'

β15bisulR

5'- CTATTCAACAATCCTCTCTAC -3'

Restriction enzyme cutting sites are colored in red.