			*	20	*	40	*	60	*	80		
q												
AtBIC1	:				MMNIDDT	TSFMAHPIGH	SQPPSD			QTKQ	:	27
GmBIC1a	:	MKEKTLSMA	HQYSSS	NESDSQIIP	P-QPFKLKKE	HQPKGKCMGC	EQENESQYLEE	IVSDSRP	RK	YSGKDN	:	69
GmBIC1b	:	MA	HQYPSS	NESDSHIIF	P-QPLKLKKE	HQPKGKCMGC	EKEDESQYLEG	IVLDSRYGE	EIVLDCQSGK	YSGKDN	:	72
GmBIC1c	:	MA	HQSSSS	ESDDRQIPS	HHQPLDINSE	HPSKDIIFNN	NMELQQE	ESNINKHEY	DEDIR-	DKDK	:	62
GmBIC1d	:	MA	HQSSSS	ESDD-HIPS	HHHPLDINSE	HPSKDIIFDI	NMELQQHQQEE	ESNINNHEY	DGDNNR	DKDDKD	:	68
AtBIC2	:									MKNT	:	4
GmBIC2a	:			M	EESKLSHNIE	TGSSRKIVTS	QSPPSLSLE			-FNEK-	:	34
GmBIC2b	:			M	EGNNLPHNME	IWSSRKLVTS	QSFASFSLE			-FNEKQ	:	35
			×	100	*	120	*	140	*	160		
a la rat			S		a		GRerLkrhF	Evag V	IP WGqE	LKOW D		00
AtBIC1	:	DPPSLPQEA	ASSVS-	ADKKDI	ALLEEKI	PKQSQEEDRY	DIGRERLKKHF	RD LAC - FVW	IPEIWGODEL	LKLWID	:	98
GmBICIa	:	NNILGQIPS	ASKIH-	NKVEI	ALDHN-ATKE	GITSVEGDH	DSCRE <mark>KLKRHE</mark>	VIDVAC-FVW	IPDIWCOBEI	LKLWID	:	142
GmBIC1b	:	N-THGQTPS	ASKVH-	NKVEI	TLDYN-ATTE	G-TSVEGE	DSGRERLKRHF	VDVAC-FVW	IPDIWGODEL	TKDMID	:	141
GmBIC1c	:	DVVTTÇNPS	AASETT	LLCCNEENM	ALQEEETSDVA	AAAKEEEEEE	DSGRERINRER	VDVAC-FVW	IPDIWCODEL	LKDWID	:	141
GmBIC1d	:	DVTTTCNPS	BAASET-	NEEKI	ALQEEASDDV	VVEAEEKEE-	DSGRERINRHF	VEVAC-FVW	IPEIWGQDE1	LKDWID	:	141
AtBIC2	:	NLPEETKEE	PISPGS-		-SHRKCNKTG	TKTCFPETTV	LSGRORLKRHF	EDVAC-KVP	IPDSWCKEGI	IMGWMD	:	72
GmBIC2a	:	-LKNNSQEC	KSENIN	DK	AKDPEKGHSEI	NIGKVDDDVE	EIGRERLKRIF	EDVIMENUN	IPENWGOEPK	LKDWMD	:	106
GmBIC2b	:	KLKNNTQEC	KEFNIN	DK	AKDPEEGHSEI	NIGKVDGVER	TIGRERLKRUP	EDVIMDRYN	IPENWCOPPK	LKDWMD	:	108
			*	180	*	200	*	220	*			
		FDa	s I	AR AL	as l							
AtBIC1	:	CSTELTCIV	FAGISS	ARTAIVEEA	RRASASGGLI	HNRCLILR				: 14	10	
GmBIC1a	:	CIAFDAPLY	PERIVM	ARTAI VEEG	REATSGGERI	ENRC				: 18	80	
GmBIC1b	:	CIAFDAPIV	PERIVM	ARTALVEEG	REATSGGIRI	ENRC				: 17	19	
GmBIC1c	:	CIAFD ATIV	PSRIST	AREAL VOEC	TRANSAG RI	ENREKTVTYN	SD			: 18	37	
GmBIC1d	:	CSAFDAPLY	PERIST	ARKAI VEEC	TRANAAGUII	ENSVESGER	FRIVRIKRCIV	FCGTWISMY	IWIYPLITTA	CM : 21	7	
AtBIC2	:	FSTED AFT	SSOTVS	ARAAIMADS	GDDAGARGSRI	PORLEVESSO				: 11	6	
GmBIC2a	:	YIMED AFFE	HSLIVI	ARDALIANT	RKAKSPRIY-					: 13	39	
GmBIC2b	:	YIMEDAFFE	HTLIVT	ARDALIANA	REAKSPRIY-					: 14	11	
			_ 10.7	_								

SUPPLEMENTARY FIGURE S1 | Sequence alignment of BIC proteins in *Arabidopsis* and soybean. The letter with a blue underline indicates the CRY-Interacting Domains (CID).



SUPPLEMENTARY FIGURE S2 | GmBIC1a interacts with GmCRYs and inhibits the formation of GmCRY photobodies. (A) Interaction of GmBIC1a with GmCRY1b and GmCRY2a in yeast. (B) GmBIC1a inhibition of GmCRY1a-YFP and GmCRY2a-YFP photobodies in soybean mesophyll protoplasts. The protoplasts were exposed to blue light (25 μ mol m⁻²s⁻¹) for 5 min and examined under a fluorescence microscope. The *pA7-RFP* empty vector was used as a control. Scale bars = 2 μ m.



SUPPLEMENTARY FIGURE S3 | Phenotypes of the *GmBIC* overexpression lines. (A) Representative images of indicated lines grown under short-day conditions (8 h light/16 h dark). Scale bars = 25 cm. (B) Immunoblots of the GmBIC-YFP or YFP-GmBIC fusion proteins of each line as in (A) probed with the anti-GFP antibodies. HSP70 proteins were used as the loading control. (C) Statistical analysis of the plant height of each line as in (A). Data are means \pm SD (n \geq 4). Lowercase letters indicate significant differences (p < 0.01, One-way ANOVA with Tukey's multiple comparisons test).



SUPPLEMENTARY FIGURE S4 | Schematic diagram of the *Gmbic* mutations generated by CRISPR/Cas9. (**A and B**) Schematic diagram showing the genomic structures, the gRNA-targeting sites and the detailed editing sequence of *GmBIC* genes in the *Gmbic1a*, *Gmbic1c*, *Gmbic1d*, and *Gmbic2a* single mutants (**A**), and the *Gmbic1a1b* and *Gmbic2a2b* double mutants (**B**). The underlined and strikethrough letters indicated the inserted and deleted nucleotides, respectively. The gRNA-targeting sites are indicated in red.