

Table S1. Nucleotide sequences of primers used for PCR and RT-qPCR

Purpose	Primer name	Forward primer 5'-3'	Reverse primer 5'-3'
Clone	BcHY5	ATGCAGGAGCAAACGACTAG	TCAGAGGCTCGCATCAGCGTT
	BcBBX24	ATGAAAATACAGTGTGATGTG	ATTGTCCCTGATCTAGGCTAA
	proBcHY5	CAATTATTTTTATTTTAATA	CGTCAGATTCTCTATCAATC
Subcellular Localization	BcHY5-GFP	GTCGACCCCGGGGTACC ATGCAGGAGCAAACGACTAG	GGATCCATGGTGAGCAAGGG G GAGGCTCGCATCAGCGTT
BiFC	BcHY5-nYFP	TCTCGAGCTTTTCGCGAGCTC ATGCAGGAGCAAACGACTAG	TCTAGAAGATCCATCGCC GAGGCTCGCATCAGCGTT
	BcBBX24-cYFP	AGGAGGACCTGCTTTCTAGA ATGAAAATACAGTGTGATGTG	TCTAGACTCGAGGGATCCG G ATTGTCCCTGATCTAGGC
Y2H	BcHY5-BD	TGGCCATGGAGGCCGAATTC ATGCAGGAGCAAACGACTAG	GGATCCGTCGACCTGCAGC G GAGGCTCGCATCAGCGTT
	BcBBX24-AD	CCATGGAGGCCAGTGAATTC ATGAAAATACAGTGTGATGTG	GGATCCATCGAGCTCGAGC T ATTGTCCCTGATCTAGGC
GST pull - down	BcHY5-His	GCCATGGCTGATATCGGATC ATGCAGGAGCAAACGACTAG	GAATTCGAGCTCCGTCGAC A GAGGCTCGCATCAGCGTT
	BcBBX24-GST	ATCTGGTTCCGCGTGGATCC ATGAAAATACAGTGTGATGTG	GAATTCCTGGGTCGACTCG A ATTGTCCCTGATCTAGGC
Y1H	pAbAi-proBcHY5	AAATGATGAATTGAAAAGCTT CAATTATTTTTATTTTAATA	CATACAGAGCACATGCCTC G CGTCAGATTCTCTATCAATC
Dual-luciferase reporter assay	proBcHY5-pGreenII0800-LUC	GGTATCGATAAGCTT CAATTATTTTTATTTTAATA	GGATCCACTAGTTCT CGTCAGATTCTCTATCAATC
	35S:BcBBX24-GFP	GTCGACCCCGGGGTACC ATGAAAATACAGTGTGATGTG	GGATCCATGGTGAGCAAGGG G GCCTAGATCAGGGACAAT
RT-qPCR	AtHY2	TGAACCTTCACATCTCCAGGAA	CCTTAGCAGCTCCTTTGCCT
	AtYUC8	CCTGAGGACTTCCCGGAGTA	ACAAGCCACTGGTCTCATCG

	AtActin	ATGCTGGTATCCATGAAACC ACCT	CCTGTGAACAATCGATGGA CCTGA
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Table S2. Proteins sequences of HY5

BcHY5	MQEQTTSSLPASSLPSSSERSSSSAPHLEIKEGIESDEEIRRVPEFGGEATG KEISGSGTGQDQTQATVGGESQRKRGRTPAEKETKRLKRLLRNRVSAQQA RERKKAYLGELENRVKDLENRNSELEERLSTLQENQMLRQILKNTGNKR GGGGSNADASL
BrHY5	MQEQTTSSLPASSLPSSSERSSSSAPHLEIKEGIESDEEIRRVPEFGGEATGKEI SGSVTGQDQTQATVGGESQRKRGRTPAEKETKRLKRLLRNRVSAQQA RERKKAYLGELENRVKDLENRNSELEERLSTLQENQMLRQILKNTTGNKRGG GGSNADASL
BnHY5	MQEQTTSSLPASSLPSSSERSSSSAPHLEIKEGIESDEEIRRVPEFGGEATGKEI SGSGTGQDQTQATVGGESQRKRGRTPAEKETKRLKRLLRNRVSAQQA
AtHY5	MQEQATSSLAASSLPSSSERSSSSAPHLEIKEGIESDEEIRRVPEFGGEAVGKE TSGRESGSATGQERTQATVGGESQRKRGRTPAEKENKRLKRLLRNRVSAQQA RERKKAYLSELENRVKDLENKNSLEERLSTLQNE
SIHY5	MQEQATSSIAASSLPSSSERSSSSALHHELEKEGMESDDEIRRVPEMGGEATG TTSASGRDGVSAAGQAQPSAGTQRKRGRSPADKENKRLKRLLRNRVSAQQ ARERKKAYLIDLEARVKELETKNAELEERLSTLQENQ
PpHY5	MQEQATSSLAASSLPSSSERSSSSAFHLEVKEGMESDDEIGRVPEIGGESAG ASASARENGSLAGPDQVQTAGESQRKRGRNPADKESKRLKRLLRNRVSAQ QARERKKAYLNDLEVRVKELEQKNSSELDERLSTLQENQMLRHILKNSTASRRGADGSANA
NtHY5	MQEQATSSIAASSIPSSSERSSSSALHLEIHEGMESDDEIRRVPEMGGEAIGT TSASGRDGN SATGQAQPSAGTQRKRGRSPADKENKRLKRLLRNRVSAQQA RERKKAYLIDLEARVKELETKNAELEERLSTLQENQMLRHILKNNTTAGAQ EGRK
MdHY5	MQEQATSSLAASSLPSSSERSSSSAFHLEVKEGMESDDEIGRVPEIGGESAG ASASARENGLLAGPDQVQTAGESQRKRGRNPADKESKRLKRLLRNRVSAQ QARERKKAYLNDLEVRVKELEQKNSSELDERLSTLQENQMLRHILKNNTTA SRRGADGGANAD
RsHY5	MQEQTTSSLPASSMPSSSERSSSSAPHLEIKEGIESDEEIRRVPEFGGEGTGKE ISGRESGSGTGQDQTQITVGGGEGQRKRGRTPAEKETKRLKRLLRNRVSAQ QARERKKAYLGELENRVKDLENRNSELEERLSTLQENQMLRQILKNTTG NKRGGGGSNADASL

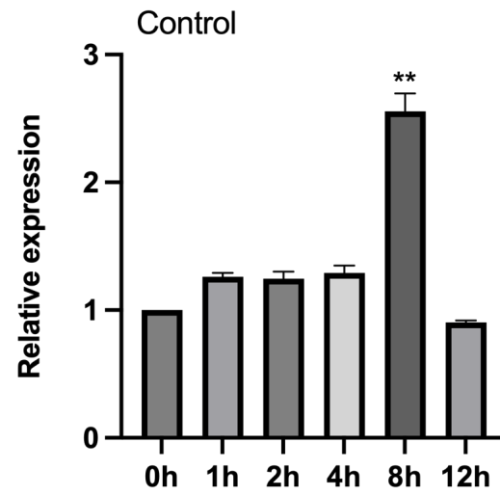


Figure S1 The expression of *BcHY5* without any treatment. The expression of *BcHY5* under no-treatment conditions was sampled at 0 h, 1 h, 2 h, 4 h, 8 h, 12 h. Error bars represent the standard deviation among independent replicates. Asterisks (** $p < 0.01$, Student's t-test) indicate statistical significance.