

Table S1. Primers used in this study

Primer	Sequence(5'-3')	Relevant Characteristics
BcactA	F:TCCAAACCGCCAGTCAATCC R:GATACCACCGCTCTCAAGACC	qRT-PCR detection of the expression of <i>BcactA</i> (Liu <i>et al.</i> , 2011)
BCG1-BD	F:TCAGAGGAGGACCTGCATATGATGGGTGCGGTA TGAGCACT R:TCGACGGATCCCCGGGAATTCTTAACGCCATGCT GAATTAAG	Amplification of full BCG1 for construction of the vector pGBKT7- BCG1
BCG2-BD	F:TCAGAGGAGGACCTGCATATGATGTGTTTCGGCA GCAGGGAG R:TCGACGGATCCCCGGGAATTCTCAAAGGATCAGC TTTTGAAG	Amplification of full BCG2 for construction of the vector pGBKT7- BCG2
BCG3-BD	F:TCAGAGGAGGACCTGCATATGATGGGTGCTTGCA TGAGCTC R:TCGACGGATCCCCGGGAATTCTTAGAGTATGCCC GAGTCTT	Amplification of full BCG3 for construction of the vector pGBKT7- BCG3
Bcgb1-BD	F:TCAGAGGAGGACCTGCATATGATGTCGTCAAACCT CGAACGA R:TCGACGGATCCCCGGGAATTCTTATGTGGACCAG AGTTTGA	Amplification of full bcbg1 for construction of the vector pGBKT7- Bcgb1
Bcgb1-AD	F:CATATGGCCATGGAGGCCAGTATGTCGTCAAACCT CGAACGA R:GTATCGATGCCACCCGGGTGTTATGTGGACCAG AGTTTGA	Amplification of full bcbg1 for construction of the vector pGADT7- Bcgb1
BCGG1-BD	F:TCAGAGGAGGACCTGCATATGATGCCTCAAGGTT ATTCATCT R:TCGACGGATCCCCGGGAATTCTTACATCACCAAA CAGCATCC	Amplification of full BCGG1 for construction of the vector pGBKT7- BCGG1
Bmp1-BD	F:TCAGAGGAGGACCTGCATATGATGACAGCTCGTG CGCCTAAT R:TCGACGGATCCCCGGGAATTCCTATCTCATGATCT CATCATA	Amplification of full Bmp1 for construction of the vector pGBKT7- Bmp1
Bmp3-BD	F:TCAGAGGAGGACCTGCATATGATGGCAGACCTGC AAGGAAG R:TCGACGGATCCCCGGGAATTCCTACGATCGCATA GCATCCA	Amplification of full Bmp3 for construction of the vector pGBKT7- Bmp3
Pka1-BD	F:TCAGAGGAGGACCTGCATATGATGCCGACACTCG GTTTTTTG R:TCGACGGATCCCCGGGAATTCTCATCGGGCCAC CTTGACCA	Amplification of full Pka1 for construction of the vector pGBKT7- Pka1
Pka2-BD	F:TCAGAGGAGGACCTGCATATGATGGCTGAGACCA	Amplification of full Pka2 for

	CGACGGCT R:TCGACGGATCCCCGGGAATTCCTAAAAACCCTTG AAACAATCATCG	construction of the vector pGBKT7- Pka2
Pde1-BD	F:TCAGAGGAGGACCTGCATATGATGGAAGGTAGA GCTCCCGCT R:TCGACGGATCCCCGGGAATTCCTACAAATAAACA CTCATCCC	Amplification of full Pde1 for construction of the vector pGBKT7- Pde1
Pde2-BD	F:TCAGAGGAGGACCTGCATATGATGGACTACGCCG CATGCAAC R:TCGACGGATCCCCGGGAATTCTCAACCCGCAGTC CCATCAGA	Amplification of full Pde2 for construction of the vector pGBKT7- Pde2
Bck1-BD	F:TCAGAGGAGGACCTGCATATGATGAGCCAGCGTC CCCAA R:TCGACGGATCCCCGGGAATTCTTAATATGTGCCG CGAATCTTAGC	Amplification of full BcBck1 for construction of the vector pGBKT7- Bck1
BcMkk1-BD	F:TCAGAGGAGGACCTGCATATGATGTCTTCTCCAG CTCCATTA R:TCGACGGATCCCCGGGAATTCTCACCAGCCCCAT ACGGTAGC	Amplification of full BcMkk1 for construction of the vector pGBKT7- BcMkk1
BcSte50-BD	F:TCAGAGGAGGACCTGCATATGATGGCATTGAGT CCGGCACA R:TCGACGGATCCCCGGGAATTCTCATATAATGCCG CCAGGAGG	Amplification of full BcSte50 for construction of the vector pGBKT7- BcSte50
BcSte50-AD	F:GTACCAGATTACGCTCATATGATGGCATTGAGTC CGGCACA R:ATGCCACCCGGGTGGAATTCTCATATAATGCCG CCAGGAGG	Amplification of full BcSte50 for construction of the vector pGADT7- BcSte50
BcSte11-BD	F:CTGATCTCAGAGGAGGACCTGCATATGATGGCAA TGCTAGCTTCAAAG R:TGCAGGTCGACGGATCCCCGGGAATTCTCAAGT GATTGGGTTTAAAAA	Amplification of full BcSte11 for construction of the vector pGBKT7- BcSte11
BcSte7-BD	F:CTGATCTCAGAGGAGGACCTGCATATGATGTCGG ACGGTATTGGTTCG R:TGCAGGTCGACGGATCCCCGGGAATTCTTATGAG CCCTGAGCTGCATA	Amplification of full BcSte11 for construction of the vector pGBKT7- BcSte7
BD-jiance	F: ATGGAGGAGCAGAAGCTG R: TGCGGCCGCTGCAGGTCG	PCR detection of recombinant plasmids of pGBKT7
AD-jiance	F: ATGGAGTACCCATACGACGTA R: TCGATGGATCCCGTATCGATG	PCR detection of recombinant plasmids pGA DT7
Bcgas2-RT	F: TCGGTATCGGTGGTCTTTC R: GTACTCAATCGCACGCTTC	qRT-PCR detection of the expression of <i>Bcgas2</i>

		(Schamber et al 2010)
BcNoxA-RT	F: ACTGCCCCATGCCAAAATTAG R: CCTAAGCAATGACCCCAGAA	qRT-PCR detection of the expression of <i>BcNoxA</i> based on <i>Bcin05g00350</i>
BcNoxD-RT	F: AAGAATCTCGACGGTGCACT R: AGCTGTCAAAGGGAGGACAA	qRT-PCR detection of the expression of <i>BcNoxD</i> based on <i>Bcin01g08690</i>
BcLAE1-RT	F: GATGAGAAAGACCGGATGGA R: TAGCTAGGTCAAGCCCGAGA	qRT-PCR detection of the expression of <i>BcLAE1</i> based on <i>Bcin05g01210</i>
Bcgb1-L	F: TATTCCTGACAATCTCTGGCA R: GCTGCAGGAATTTCGATATCAAGTTGCGACCAAA TGGATGATAG	Gene deletion vector construction of <i>Bcgb1</i> based on <i>Bcgb1</i> and KS1004
Bcgb1-R	F: AAAGGAATAGAGTAGATGCCGAATCGCCCTCCC AAATACG R: ATTACAGAGCCTTAGTTATGAGTCC	
HY- <i>Bcgb1</i>	F: CTATCATCCATTTGGTCGCAACTTGATATCGAAT TCCTGCAGC R: CTGCTCCATACAAGCCAACC	
YG- <i>Bcgb1</i>	F: TGTCTGCGGGTAAATAGC R: CGTATTTGGGAGGGCGATTCCGCATCTACTCTAT TCCTTT	
<i>Bcgb1</i> sy-F	AGAATGACCAAGGCCAAGAGG	PCR detection of <i>Bcgb1</i> deletion mutant
HYG	F: GACAGCGTCTCCGACCTGA R: GCTCCATACAAGCCAACCAC	Amplification of part sequence of HPT in the <i>Bcgb1</i> deletion mutant
BcVEL1-RT	F: CTTCTCTTCGCAACTTTGG R: CAACTTGTATTGGCCCTCGT	qRT-PCR detection of the expression of <i>BcVEL1</i>
BcVEL2-RT	F: CGAACATGGAATGTTTGTGC R: GTGGCGCACTACCATAGGTT	qRT-PCR detection of the expression of <i>BcVEL2</i>
Bcbrn1-RT	F: CCAAGAAGCAATGGGGTAAA R: TCATGATCAAACGACCTCCA	qRT-PCR detection of the expression of <i>Bcbrn1</i>
Bcbrn2-RT	F: GACTCTTGAGGGCAAAGTCG R: TGCTACCGAGTTCCTCGATT	qRT-PCR detection of the expression of <i>Bcbrn2</i>
Bcsed1-RT	F: TGACAGCTACGATGCAAAGG R: GCCCTCAATTGATGATGTCC	qRT-PCR detection of the expression of <i>Bcsed1</i>
Bcsmr1-RT	F: CGTCTCCAGGAAGCTCAATC R: TTTTGTGGCGGAGAGAGAGT	qRT-PCR detection of the expression of <i>Bcsmr1</i>
Bcpks12-RT	F: CTGATCTTCGTGGGGTTGTT R: TGCCGCATTGATAGTAGCAG	qRT-PCR detection of the expression of <i>Bcpks12</i>
Bcpks13-RT	F: AATGCAGCGTCTGGCTATCT R: CACGCTGTATGATGGACCAC	qRT-PCR detection of the expression of <i>Bcpks13</i>

BcAtf1-RT	F: TGTCCCTCCACAAAACAACA R: ACCGGTGAGCATGTTAGGAC	qRT-PCR detection of the expression of <i>BcAtf1</i>
Bac-RT	F: CGACTGCGCTTAATACTACCG R: TTATCCTCCCTTCCTACATCTTC	qRT-PCR detection of the expression of <i>Bac</i>
BcPde1-RT	F: CTCGCAGACCTCAAACCTTC R: TACTCGCCAATCCAGCAAT	qRT-PCR detection of the expression of <i>BcPde1</i>
BcPde2-RT	F: TCACTTCCTCGTCCGCTTAG R: GGGTGACCTACATCGTGGC	qRT-PCR detection of the expression of <i>BcPde2</i>
BcPka1-RT	F: TGCACAAGATGAAGCAGGTC R: AGAATTTGGCCACTGGATTG	qRT-PCR detection of the expression of <i>BcPka1</i>
BcPka2-RT	F: GCTTGACTACTGCCCTGGAG R: TATGTGTCCCTCAGCATCCA	qRT-PCR detection of the expression of <i>BcPka2</i>
BcPkaR-RT	F: CGTCCATGTCAATTCCACTG R: AGGATTGCGCGGAAAGTTAT	qRT-PCR detection of the expression of <i>BcPkaR</i>