

## Supplemental Materials

### Supplemental figure legends

Supplemental Figure 1. Inserts in four isolated plasmids (MST5-4, MST5-5, MST15-13 and MST15-34) conferring RNA tolerance.

Open box, ORF positions; Blank regions within boxes, introns.

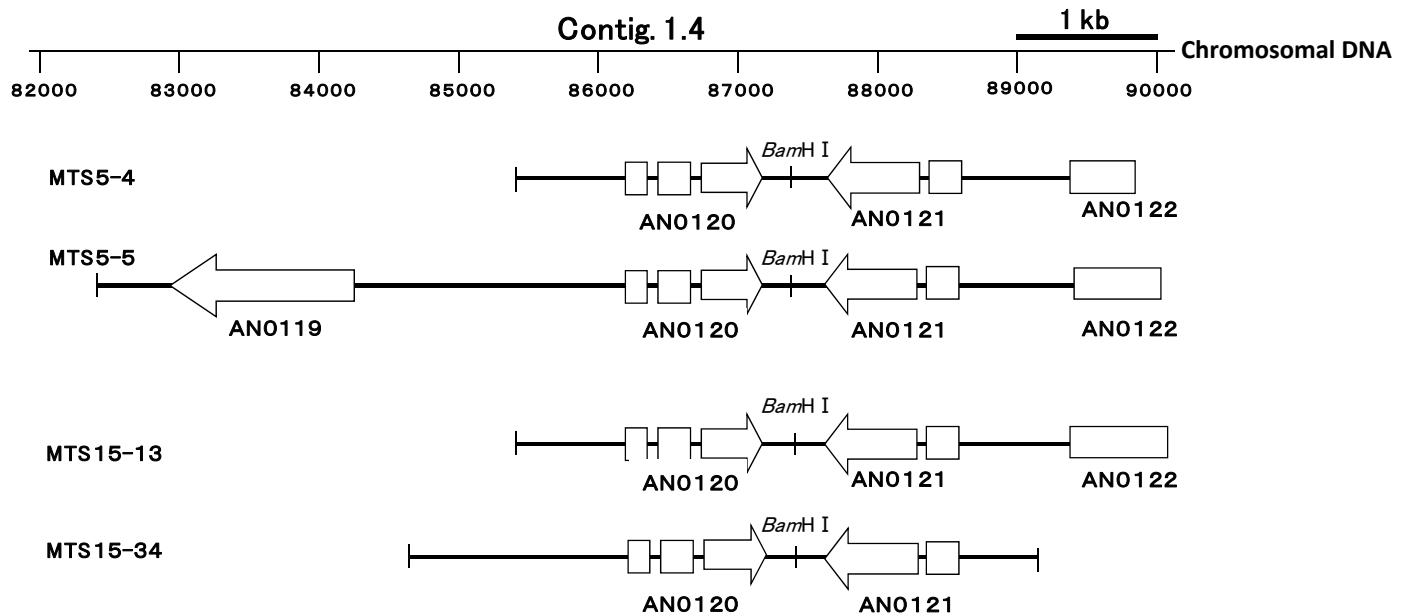
Supplemental Figure 2. Deduced amino acid sequence alignment of PBG-D from *A. nidulans* (A.n.PBG-D), *S. cerevisiae* (S.c.PBG-D) and *E. coli* (E.c.PBG-D).

Sequences were aligned using ClustalW. Black and white boxes, identical and similar amino acids, respectively.

Supplemental Figure 3. Southern blot analysis of ALC and  $\Delta fhb$  gene disruptants. Restriction enzymes used to digest the genomic DNAs from parent and mutant strains are indicated. PalcA indicates the gene promoter of *alcA*. Black bars represent position of hybridization probes. P, parental strains; R, recombinant strains. Predicted size shifts are indicated in corresponding Southern blots.

Supplemental Figure 4. Growth of WT and ALC strains.

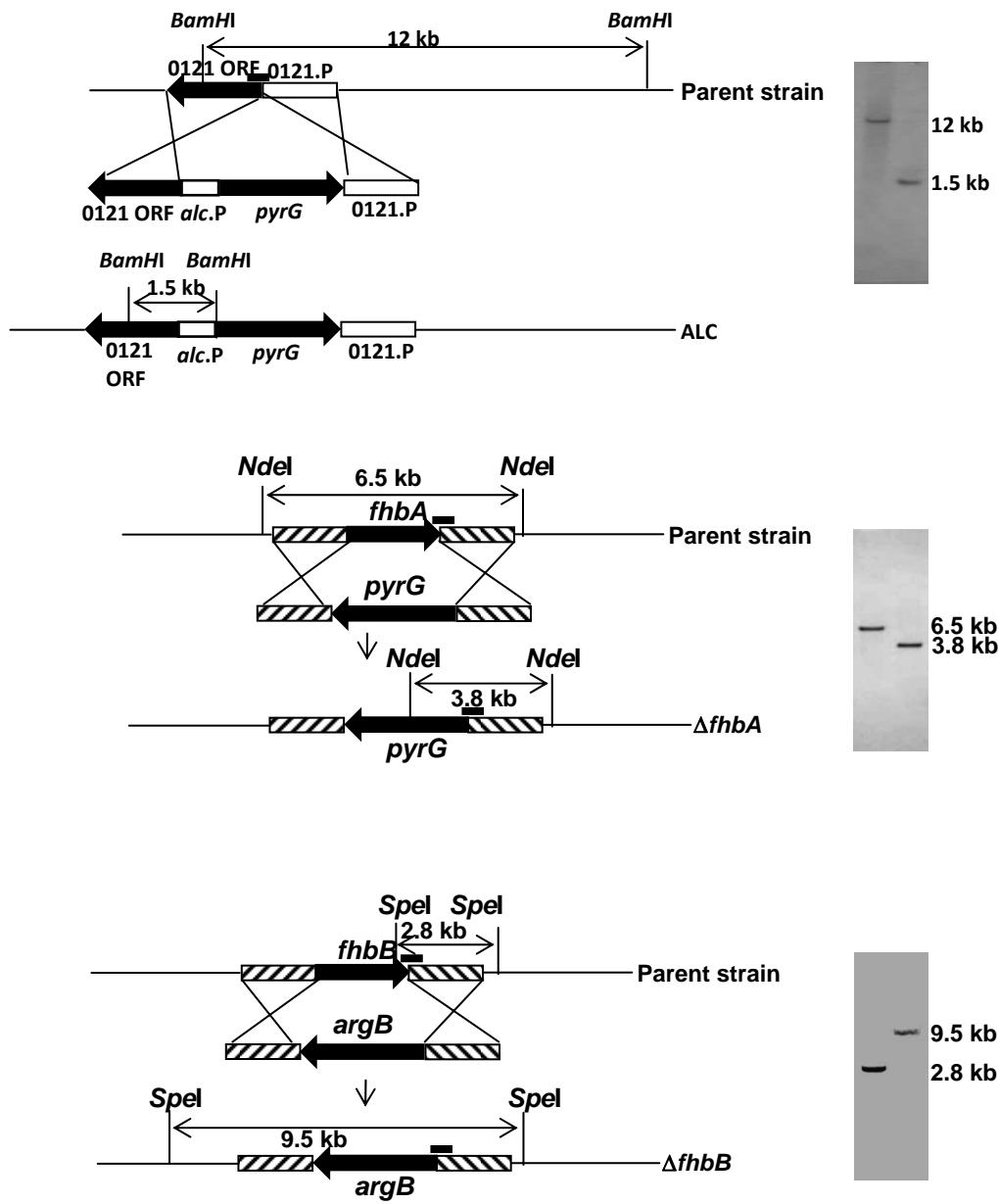
Colonies appeared on MM agar medium (pH 5.5) containing 25 mM NaNO<sub>2</sub> after incubating WT and ALC conidia at 37°C for 48 h. Proline (Pro), methionine (Met) and ergosterol (Erg) were added to the medium at final concentrations of 5 mM, 10 mM, 10 mM, and 10 µg mL<sup>-1</sup>, respectively.



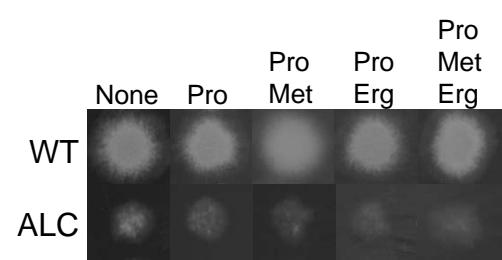
**Fig. S1**

<b>A.n.PBG-D</b>	.....	.....	.....	.....	.....	.....	.....	
<b>S.c.PBG-D</b>	MGPETLHIGGRKS	KLAVIQSNHV	LIEEKYPDYDCKV	FTLQTLGDQI	QFKPLYSFGGK	KALWTKELEDHL		
<b>E.c.PBG-D</b>	MLDNVLRIATRQS	PLALWQAHYVKD	KLMASHPGLV	VELVPMVTRGD	VILDTPLA	KVGKG	LFVKELEVAL	
		1	10	20	30	40		
<b>A.n.PBG-D</b>	.....	IPTSCTLGPMM	[KRED]S[RDGLV]	IKKGLPNMSLA	[MPAGS][VVGTS	SIRRT		
<b>S.c.PBG-D</b>	YHDDPSKKLDLIV	HSLKDMP	TLLIPEGFELGGIT	[KRVDP	TDCLVMPFYSA	KSLDDLPDGG	IVGTSSVRRS	
<b>E.c.PBG-D</b>	LEN....RADIAV	HSMKDVPVEF	PQGLGLVTIC	[EREDPRD	AFVSNN...YDS	SLDALPAGS	IVGTSSLRRQ	
		50	60	70	80	90	100	110
<b>A.n.PBG-D</b>	AQLARKYPHLKVM	D[VRGNI]GTRLAKL	DAEDSP[YTC	[LILAAGLILRLGL	GDR[IYQY	YLDLSRNAGMLY	AVGQG	
<b>S.c.PBG-D</b>	AQLRKYPHLKFE	S[VRGNI]QTRLQKLD	DPKSP[YQC	IILASAGLIMRMGL	ENRIT[QRFHS	..DTMYH	AVGQG	
<b>E.c.PBG-D</b>	CQLAERRPDLIIRS	LRGNV[GTRLSKLD	NGE..YDAI	IILAVAGLKRLGL	ESRIRAA	ALPP..EISLP	AVGQG	
		120	130	140	150	160	170	180
<b>A.n.PBG-D</b>	ALGIEIRKGDKAM	ED[ILNTIGHKETT	FACLAERSL	LRTLEGGCSAPLG	VETEWI[QD	TNGSSKLR	MRSVV	
<b>S.c.PBG-D</b>	ALGIEIRKGDTKMM	KILDEICDINAT	ICCLSERAL	MRTLEGGCSVP	IGVESKYN[EETK	...KILLKAI	IVV	
<b>E.c.PBG-D</b>	AVGIECRLLDDSR	TRELLAALNHETA	LRVTAERAMN	TRLEGGCQVPIG	...SYAELIDG	..EIWLRA	LVG	
		190	200	210	220	230	240	
<b>A.n.PBG-D</b>	SVDGSEHAEVEI	DGTVDSP.QSAEEF	GVTVAKALVN	E[GAGKILSE	[TQQNRQLK	KVPVSEST		
<b>S.c.PBG-D</b>	DVEGTEAVEDEI	EMLIENVKEDSMA	C[GKILAE	ERMIA[DGA	KKILDEI	NLDR.IK	.....	
<b>E.c.PBG-D</b>	APDGSQIIRGER	RG....APQDAE	QMGISLAELLN	NGARE	EILAEV	YNGDAPA	.....	

**Fig. S2**



**Fig. S3**



**Fig. S4**

**Supplemental Table S1. Primers used in this study.**

Primer name	Sequence (5'→3')	Restriction enzyme
<i>pyrG</i> -F	TAT <u>CCCCGGGG</u> ATT CGA TAC CTG TCG AAAG	<i>Sma</i> I
<i>pyrG</i> -R	CAT <u>ACCCGGG</u> T CAG TGCTTGTCTACCAG	<i>Sma</i> I
<i>argB</i> -F	CCGGGG <u>GATCCA</u> AGCTTATTTCGCGGTTTTGG	<i>Bam</i> H <b>I</b>
<i>argB</i> -R	ATTAG <u>CATGC</u> GTGACCTACAGCCATTGC	<i>Sph</i> I
$\Delta$ <i>hemC</i> -1	GG <u>CTGCAGCGGG</u> ATT CAT GCGATA	<i>Pst</i> I
$\Delta$ <i>hemC</i> -2	GG <u>GATATCG</u> TTGAGAGGGCGTTCT	<i>Eco</i> RV
$\Delta$ <i>hemC</i> -3	GG <u>CCGCGGGG</u> CAGCCTCGATTAA	<i>Sac</i> II
$\Delta$ <i>hemC</i> -4	GG <u>GGCGGCCG</u> CCTCTTGGGTTGCTTCTT	<i>Not</i> I
$\Delta$ <i>fhbA</i> -1	GG <u>GATATCAT</u> CTCCGTACGAAGAAA	<i>Eco</i> RV
$\Delta$ <i>fhbA</i> -2	G <u>CTGCAGCAAC</u> CTTATCAGCG	<i>Pst</i> I
$\Delta$ <i>fhbA</i> -3	C <u>CTCTAGA</u> TT CATCCACGGCGC	<i>Xba</i> I
$\Delta$ <i>fhbA</i> -4	GG <u>GCGGCCGCGG</u> TCGCAAACAAGTTGT	<i>Not</i> I
$\Delta$ <i>fhbB</i> -1	CT <u>CGGAATTCCC</u> AGGAACAGATTAAAACC	<i>Eco</i> RI
$\Delta$ <i>fhbB</i> -2	T <u>GACTGTCGAC</u> ATTAATCAGCGGAGCTGGC	<i>Sal</i> I
$\Delta$ <i>fhbB</i> -3	T <u>AGAGCATGCGCC</u> TTGGTGA <span style="font-size: small;">TTTG</span> TG	<i>Sph</i> I
$\Delta$ <i>fhbB</i> -4	GG <u>CCCTGCAGT</u> GTTCCGAATTACCTCGAAC	<i>Pst</i> I
<i>alcA</i> -F	GG <u>GC</u> GGCCGCGGGCGGAAATTGACA	<i>Not</i> I
<i>alcA</i> -R	GC <u>GGGGTTTGAGTT</u> GTCA <span style="font-size: small;">TTTG</span> GAGGCAGGGTGA <span style="font-size: small;">TTG</span> GATAGGAT	
<i>hemC</i> -F	AT <u>GACAACTCAAACCCC</u> GC	
<i>hemC</i> -R	GG <u>CCGCGGA</u> AGAAACAAATGACGTTGTC	<i>Sac</i> II
ALC-probe-F	TT <u>CTACAGCGGAACCGC</u> CTC	
ALC-probe-R	A <u>AGGTTGTCTC</u> CTTATGACC	
$\Delta$ <i>fhbA</i> -probe-F	G <u>AGCTGTCC</u> CATCACGGGAGC	
$\Delta$ <i>fhbA</i> -probe-R	G <u>TTGATCGGTC</u> GGTTCCCAC	
$\Delta$ <i>fhbB</i> -probe-F	C <u>AGCCCG</u> GACAGTACAGTCTG	
$\Delta$ <i>fhbB</i> -probe-R	T <u>CAACGGCCC</u> GCCTCGCG	
q-RT- <i>hemC</i> -F	CC <u>AGTACTTGGACT</u> CAAGGAAC	
q-RT- <i>hemC</i> -R	CT <u>CAGCATGTTCA</u> CTACCATC	
q-RT- <i>fhbA</i> -F	C <u>ATGGCACCA</u> CCATACCAAGG	
q-RT- <i>fhbA</i> -R	GG <u>TTGTCGAT</u> ATAGCTCGCG	
q-RT- <i>fhbB</i> -F	T <u>ATGCGACCAGT</u> GCTCTC	
q-RT- <i>fhbB</i> -R	CG <u>CTTGGTGC</u> GAGGAGTTG	
q-RT- <i>niiA</i> -F	A <u>ACAGGCGG</u> CAGAAGATCG	
q-RT- <i>niiA</i> -R	T <u>GC</u> GGTGCTCGAAGTACGAC	
q-RT- <i>hemC</i> -F	CC <u>AGTACTTGGACT</u> CAAGGAAC	
q-RT- <i>hemC</i> -R	CT <u>CAGCATGTTCA</u> CTACCATC	
q-RT- <i>actA</i> -F	GA <u>AGTCCTACGAA</u> CTGCCTGATG	
q-RT- <i>actA</i> -R	A <u>AGAACGCTGGG</u> CTGGAA	

Sequences corresponding to restriction enzymes are underlined.