

Supporting Information

Table S1 Drug sensitivity of the wild type Guy11 and the 5 ABCG-1 mutants

Drugs	Strains					
	Guy11	<i>Δmgg0737</i>	<i>Δmgg0044</i>	<i>Δmgg1027</i>	<i>Δmgg1362</i>	<i>Δmgg0784</i>
		5	7	7	4	8
ZnCL ₂ (mg/mL)	1.6	1.6	1.6	1.3	1.6	1.6
Doxorubicin hydrochloride (mg/mL)	1.25	1.25	0.50	1.25	1.25	1.25
Methyl violet (mmol)	2	2	2	2	2	1
Bitertanol (μg/mL)	12	10	12	12	12	12
Myclobutanil (μg/mL)	9	7	5	9	9	6
Camptothecin (μg/mL)	0.15	0.15	0.1	0.15	0.15	0.15
Chloramphenicol(mg/mL)	2.50	2.50	0.15	2.50	2.50	2.50
4-NQO (μg/mL)	0.5	0.45	0.45	0.45	0.5	0.5
Brefeldin A (μg/mL)	12.5	12.5	6.5	12.5	12.5	12.5
Terbinafine (μg/mL)	2	2	1.5	2	2	2
Cycloheximide (μg/mL)	0.03	0.03	0.01	0.03	0.03	0.03
Tebuconazole (μg/mL)	1.5	1.5	1	1.5	1.5	1
Benomyl (μg/mL)	2	1.5	1	2	2	1

Drug sensitivity is determined as the minimum inhibitory concentration (MIC) that is sufficient to inhibit growth of *Magnaporthe oryzae* mycelia on agar medium.

Table S2 Primers used in this work

Name	Sequence 5'-3'	To amplify or detect
HKOXE1-MoCDR1UP1	ATTATTATGGAGAACTCGAGTGATACTGAGTTTGGGACGGTGCG	Upstream flank of <i>MoCDR1</i>
HKOXE2-MoCDR1UP2	CCGGGTACCGAGCTCGAATTCGCACAATTGTGATATCAGTGAATG	
HKOBP1-MoCDR1DN1	ATGTGTTGACCTCCAGGATCCCATCGATCCCGCCAACACGTGGCG	Downstream flank of <i>MoCDR1</i>
HKOBP2-MoCDR1DN2	GCCAAGCTTGCATGCCTGCAGGTGTGGCCCTGGTGCGTGCTGCAT	
MoCDR1KOY2.1	CCCCGAATCGACCATCAACTACCA	Confirmation for <i>MoCDR1</i> deletion
MoCDR1KOY2.1	CGTCGCGACTCGGCAAACTTCTGC	
MoCDR1KOY2.2	GCCCGTCCGCAGCTCCTCCTCTTC	Confirmation for <i>MoCDR1</i> deletion

MoCDR1KOYZ3.2	GCTCCCCGGCTGTCAACTGTGTCG	
MoCDR1KOYZ1	GATTAGACCTAGGTTGTAGAGTTG	
SQUP1	CGATAGTGGAACCGACGCCCC	Confirmation for <i>MoCDR1</i> deletion
MoCDR1KOYZ4	GAGATCCTGACTGGATGGTTCCAG	
SQDN1	TGCTCACCGCCTGGACGACTAAAC	Confirmation for <i>MoCDR1</i> deletion
REC-MoCDR1	GAGCTCGGTACCCGGGGATCCTGATACTGAGTTTGGGACGGTGCG	
REC-MoCDR2	GCCAAGCTTGCATGCCTGCAGGTGTGGCCCTGGTGCGTGCTGCAT	Full length of <i>MoCDR1</i>
HKOXE1-TmCDR1UP1	ATTATTATGGAGAACTCGAGCAGTATTGCAGAGACAACCCTTAG	
HKOXE2-TmCDR1UP2	CCGGGTACCGAGCTCGAATTCGGAGTATCCGGGACCACTGGGTAT	Upstream flank of <i>TmCDR1</i>
HKOBP1-TmCDR1DN1	ATGTGTTGACCTCCAGGATCCGACTCCTCGGTTGGCCGGATACGG	
HKOBP2-TmCDR1DN2	GCCAAGCTTGCATGCCTGCAGGTGGCTGTGTCCTGCTTCACGC	Downstream flank of <i>TmCDR1</i>
TmCDR1KOYZ2.1	TGTGGAGGAATTACGGCATCATAA	
TmCDR1KOYZ3.1	CCGTGGTCCGCAAGCTTTCTCATC	Confirmation for <i>TmCDR1</i> deletion
TmCDR1KOYZ2.2	ACGGCCACGGAAC TTGTCTCTGCT	
TmCDR1KOYZ3.2	AAACGGCCGGCCAATCTATGTACG	Confirmation for <i>TmCDR1</i> deletion
TmCDR1KOYZ1	ACCCTTTACTTCGCTGCTCGCGCC	
SQUP1	CGATAGTGGAACCGACGCCCC	Confirmation for <i>TmCDR1</i> deletion
TmCDR1KOYZ4	TGGTGTGTATGTATCAACGGTGCG	
SQDN1	TGCTCACCGCCTGGACGACTAAAC	Confirmation for <i>TmCDR1</i> deletion
TmREC-CDR1	GAGCTCGGTACCCGGGGATCCTGGCCAGCCAACATGACTCGGTTG	
TmREC-CDR2	GCCAAGCTTGCATGCCTGCAGTGGAGTTAAGCAATAACTCGAGAG	Full length of <i>TmCDR1</i>
BAR1	CCAGAAACCCACGTCATGCCAGTT	
BAR2	AGTCGTCCAGGCGGTGAGCACAAA	<i>BAR</i> gene cassette
HPH52	CGCCCTTCCTCCCTTTATTT	
HPH34	GGTGTCTCCATCACAGTTT	
HPH51	CTTCGATGTAGGAGGGCGTGGATA	<i>HPH</i> gene cassette
HPH31	GGGGCGTCGGTTTCCACTATCG	
MoCDR1RT-F1	ACCACGGCCGACTTTCTCACTTCC	
MoCDR1RT-R1	CACGCTGCCGGCTGTTCTTCC	Transcription level of <i>MoCDR1</i>
MGG_00447_qRT_F1	GGGATCCGGCTGCACAACCTT	
MGG_00447_qRT_R1	GGCCTCTCCGCATATTTCTCAA	Transcription level of MGG_00447
MGG_00937_qRT_F1	CTCGCGGCGCAGGCAAGACAC	
MGG_00937_qRT_R1	GGGGCCCAGTAGCGCAAACACC	Transcription level of MGG_00937
MGG_07375_qRT_F1	GACGGCCGGATGCGCTCTGTTTAT	
MGG_07375_qRT_R1	GGGCGTGGTCTGCTCGATGATTTG	Transcription level of MGG_07375
MGG_10277_qRT_F1	AGGCTGGAGGGCGCGTGGTCTATC	
MGG_10277_qRT_R1	GTTGGCGTTGGGTGGGCATTGTG	Transcription level of MGG_10277
MGG_10410_qRT_F1	ACGAGTGCGCCCCCTTGGTTTG	
MGG_10410_qRT_R1	GCGGCGGCTCGACTCTTGATTC	Transcription level of MGG_10410
MGG_13624_qRT_F1	GCGAACCCGGCCGAATGGATG	
MGG_13624_qRT_R1	CTCAGTCGGGGGTGGCGTGTGTTG	Transcription level of MGG_13624

MGG_13762_qRT_F1	GGCGCCCAGTTCAGCAGTCA	Transcription level of MGG_13762
MGG_13762_qRT_R1	GGGCGAATAAAGAGCGAAGGTAAA	
MGG_12612_qRT_F1	CCTATTTTCCCACTCTCGCTC	Transcription level of MGG_12612
MGG_12612_qRT_R1	CCAGCCATTAGTACATCCCG	
MGG_07375_qRT_F1	TTCCTCGTAACCAAGCGTG	Transcription level of MGG_07375
MGG_07375_qRT_R1	TCTGTCATCTCGGCGTTTAC	
MGG_05044_qRT_F1	GCTTACCCGACTACAGAACAG	Transcription level of MGG_05044
MGG_05044_qRT_R1	CCAATGCACTAAACACATCGTC	
MGG_03441_qRT_F1	CTCTTGTTTTGCTGTTGGTG	Transcription level of MGG_03441
MGG_03441_qRT_R1	AGGCTACAAACCCCAACATG	
MGG_10508_qRT_F1	TTCTTTACGAGTTCCAACGGG	Transcription level of MGG_10508
MGG_10508_qRT_R1	GGGAGTAGATGGCGTTGATG	
MGG_06203_qRT_F1	TTGTTACCGGCGAGATCTTC	Transcription level of MGG_06203
MGG_06203_qRT_R1	CTTGACTGGAGGTTGGC	
MGG_01862_qRT_F1	ATCTCGCTGTGTTCCGTTAG	Transcription level of MGG_01862
MGG_01862_qRT_R1	TGGCAGTACAAATCGTTCCC	
MGG_08710_qRT_F1	ATCTACAACCTCAACCGTCACC	Transcription level of MGG_08710
MGG_08710_qRT_R1	AGACACCTGCAGAACCTTG	
MGG_05190_qRT_F1	AGACCGAACGTTGCTCATC	Transcription level of MGG_05190
MGG_05190_qRT_R1	TCTCCACATTGAAGCGTAC	
Actin-qRT_F1	ACAATGGTTCGGGTATGTGC	Reference for qRT-PCR in <i>M. oryzae</i>
Actin-qRT_R1	CGACAATGGACGGGAAGAC	
RT-Tubulin-F3	GGCCAATGCGGCAACCAA	Reference for qRT-PCR in <i>M. oryzae</i>
RT-Tubulin-R3	AGGACAGCACGGGGAACA	
TmCDR1F	AACCCTGCCGAATGGATGTT	Transcription level of <i>TmCDR1</i>
TmCDR1R	GCCGGCCAATCTATGTCAGT	
TmCDR4F	TCTCCCTGCTTACGTGCTTG	Transcription level of <i>TmCDR4</i>
TmCDR4R	TCTAGTTTAGGAGGGGCGCT	
TmCHS3F	CCGGACGTGGTTGAACACTA	Transcription level of <i>TmCHS3</i>
TmCHS3R	GGGGAAGTTCGGAGCATGA	
TmCHS6F	CCGGCATTACGATGCCTTG	Transcription level of <i>TmCHS6</i>
TmCHS6R	CCGACTGTATCAGCGGACTC	
TMEN_8641_qRT_F1	CTGGCCTGGTGGATGACTGT	Transcription level of TMEN_8641
TMEN_8641_qRT_R1	GACAAGTATTGGTTATGAAT	
TMEN_3047_qRT_F1	CTAATGCTGATGTCTCCTATCT	Transcription level of TMEN_3047
TMEN_3047_qRT_R1	CAAACCAGCCATTCCAAAGAC	
TMEN_6844_qRT_F1	ACCTTCATAATTCTCGGTGCC	Transcription level of TMEN_6844
TMEN_6844_qRT_R1	CATGTTGCTGAATGTCGCTG	
TMEN_2052_qRT_F1	AGACATCCGCAATAACTGGG	Transcription level of TMEN_2052
TMEN_2052_qRT_R1	GATACAAGCACCTCTCCGC	
TMEN_6869_qRT_F1	GATTGTCATCTCCGTTACCTGG	Transcription level of TMEN_6869

TMEN_6869_qRT_R1	CGTTTCGTAGGACATTAGAGCG	
TMEN_9261_qRT_F1	TGTTGCTGTTGCTGTTGATG	Transcription level of TMEN_9261
TMEN_9261_qRT_R1	GTTGGTGAGGGCGTAGTG	
18SF	GCTTTGCAATGCCGAGACA	Reference for qRT-PCR in <i>T</i>
18SR	GCCGCTAATCATGCCTCTCT	<i>mentagrophytes</i>
