

Supplementary Data

Table 1: List of oligonucleotides used in this study

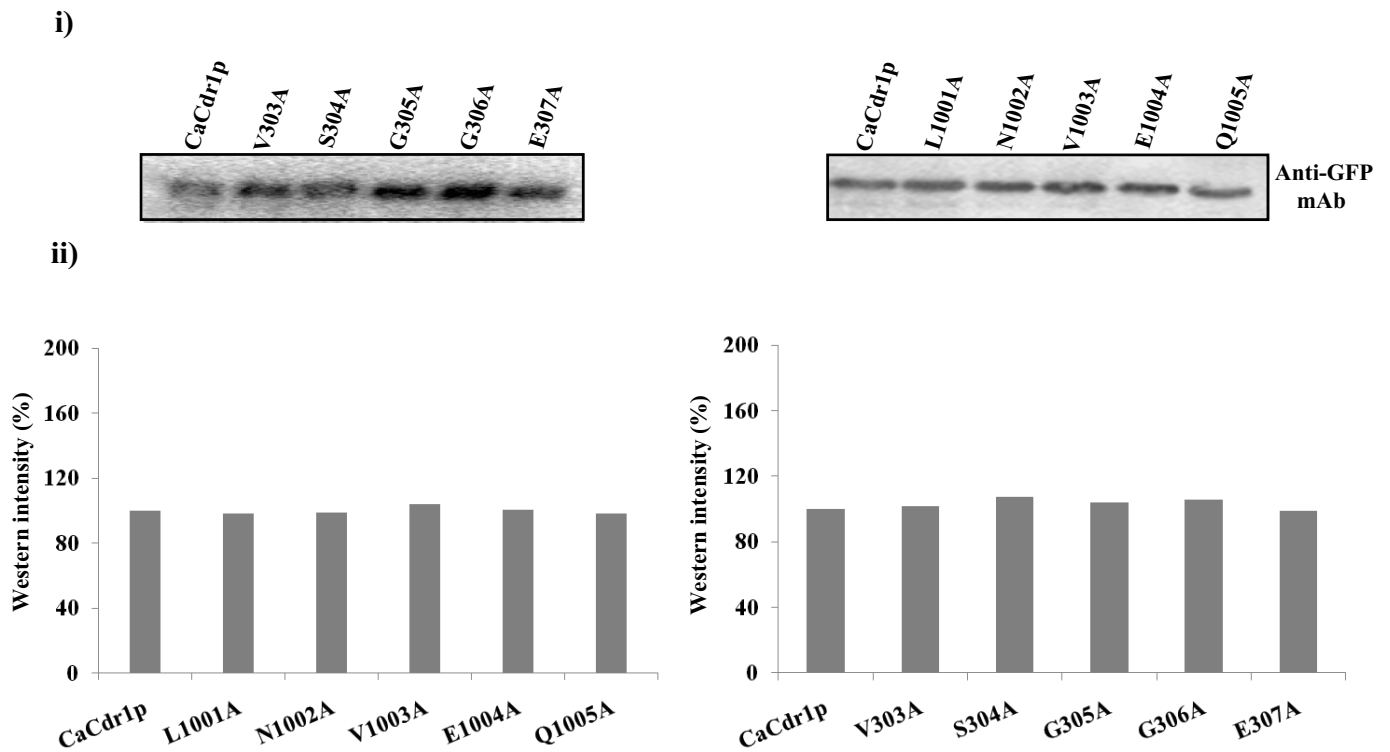
Primer	Sequence
<i>NBD1 Signature region Oligonucleotides</i>	
V303A (F)	5' AT TTT GTC CGT GGT GCT TCC GGT GGT GAA AG 3'
V303A (R)	5' CTT TCA CCA CCG GAA GCA CCA CGG ACA AAA T 3'
S304A (F)	5' TT GTC CGT GGT GTT GCC GGT GGT GAA AGA AAA AG 3'
S304A (R)	5' CTT TTT CTT TCA CCA CCG GCA ACA CCA CGG ACA A 3'
G305A (F)	5' GTC CGT GGT GTT TCC GCT GGT GAA AGA AAA AG 3'
G304A (R)	5' CTT TTT CTT TCA CCA GCG GAA ACA CCA CGG AC 3'
G306A (F)	5' CGT GGT GTT TCC GGT GCT GAA AGA AAA AGA GTG 3'
G306A (R)	5' CAC TCT TTT TCT TTC AGC ACC GGA AAC ACC ACG 3'
E307A (F)	5' GGT GTT TCC GGT GGT GCA AGA AAA AGA GTG TC 3'
E307A (R)	5' GAC ACT CTT TTT CTT GCA CCA CCG GAA ACA CC 3'
V303L (F)	5' ATT TTG TCC GTG GTC TTT CCG GTG GTG AAA G 3'
V303L (R)	5' CTT TCA CCA CCG GAA AGA CCA CGG ACA AAA T 3'
S304N (F)	5' GAT TTT GTC CGT GGT GTT AAC GGT GGT GAA AGA AAA AG
S304N (R)	5' CTT TTT CTT TCA CCA CCG TTA ACA CCA CGG ACA AAA TC 3'
G305V (F)	5' CGT GGT GTT TCC GTT GGT GAA AGA AAA AG 3'
G305V (R)	5' CTT TTT CTT TCA CCA ACG GAA ACA CCA CG 3'
G306E (F)	5' GGT GTT TCC GGT GAA GAA AGA AAA AGA G 3'
G306E (R)	5' CTC TTT TTC TTT CTT CAC CGG AAA CAC C 3'
E307Q (F)	5' GTT TCC GGT GGT CAA AGA AAA AGA GTG 3'
E307Q (R)	5' CAC TCT TTT TCT TTG ACC ACC GGA AAC 3'
<i>NBD2 Signature region Oligonucleotides</i>	
L1001A (F)	5' GCT GGT GAA GGT GCG AAT GTT GAA CAA AG 3'
L1001A (R)	5' CTT TGT TCA ACA TTC GCA CCT TCA CCA GC 3'
N1002A (F)	5' GCT GGT GAA GGT TTG GCT GTT GAA CAA AGA AAA AG 3'
N1002A (R)	5' CTT TTT CTT TGT TCA ACA GCC AAA CCT TCA CCA GC 3'
V1003A (F)	5' GGT GAA GGT TTG AAT GCT GAA CAA AGA AAA AG 3'
V1003A (R)	5' CTT TTT CTT TGT TCA GCA TTC AAA CCT TCA CC 3'
E1004A (F)	5' AGG TTT GAA TGT TGC ACA AAG AAA AAG ATT G 3'
E1004A (R)	5' CAA TCT TTT TCT TTG TGC AAC ATT CAA ACC T 3'
Q1005A (F)	5' TTG AAT GTT GAA GCA AGA AAA AGA TTG AC 3'
Q1005A (R)	5' GTC AAT CTT TTT CTT GCT TCA ACA TTC AA 3'
L1001V (F)	5' CTGGTGAAGGTGTGAATGTTGAACAAAG 3'
L1001V (R)	5' CTTTGTTC AACATT CACACCTTCACCAG 3'
N1002S (F)	5' GCT GGT GAA GGT TTG AGT GTT GAA CAA AGA AAA AG 3'
N1002S (R)	5' CTT TTT CTT TGT TCA ACA CTC AAA CCT TCA CCA GC 3'
V1003G (F)	5' GGT GAA GGT TTG AAT GGT GAA CAA AGA AAA AG 3'
V1003G (R)	5' CTT TTT CTT TGT TCA CCA TTC AAA CCT TCA CC 3'
E1004G (F)	5' GGT GAA GGT TTG AAT GTT GGA CAA AGA AAA AGA TTG 3
E1004G (R)	5' CAA TCT TTT TCT TTG TCC AAC ATT CAA ACC TTC ACC 3'
Q1005E (F)	5' GGTTTGAATGTTGAAGAAAGAAAAGATTGACC 3'
Q1005E (R)	5' GGTC AATCTTTTCTTTCTTCAACATTCAAACC 3'

<i>Signature Swapped oligonucleotides</i>	
Signature 1-1 (F)	5'GCT GGT GAA GGT GTG AGT GGT GGA GAA AGA AAA AGA TTG3'
Signature 1-1 (R)	5'CAA TCT TTT TCT TTC TCC ACC ACT CAC ACC TTC ACC AGC 3'
Signature 2-2 (F)	5' TTT GTC CGT GGT CTT AAC GTT GAG CAA AGA AAA AGA GTG 3'
Signature 2-2 (R)	5' CAC TCT TTT TCT TTG CTC AAC GTT AAG ACC ACG GAC AAA 3'

Table 2: List of Strains used in this study

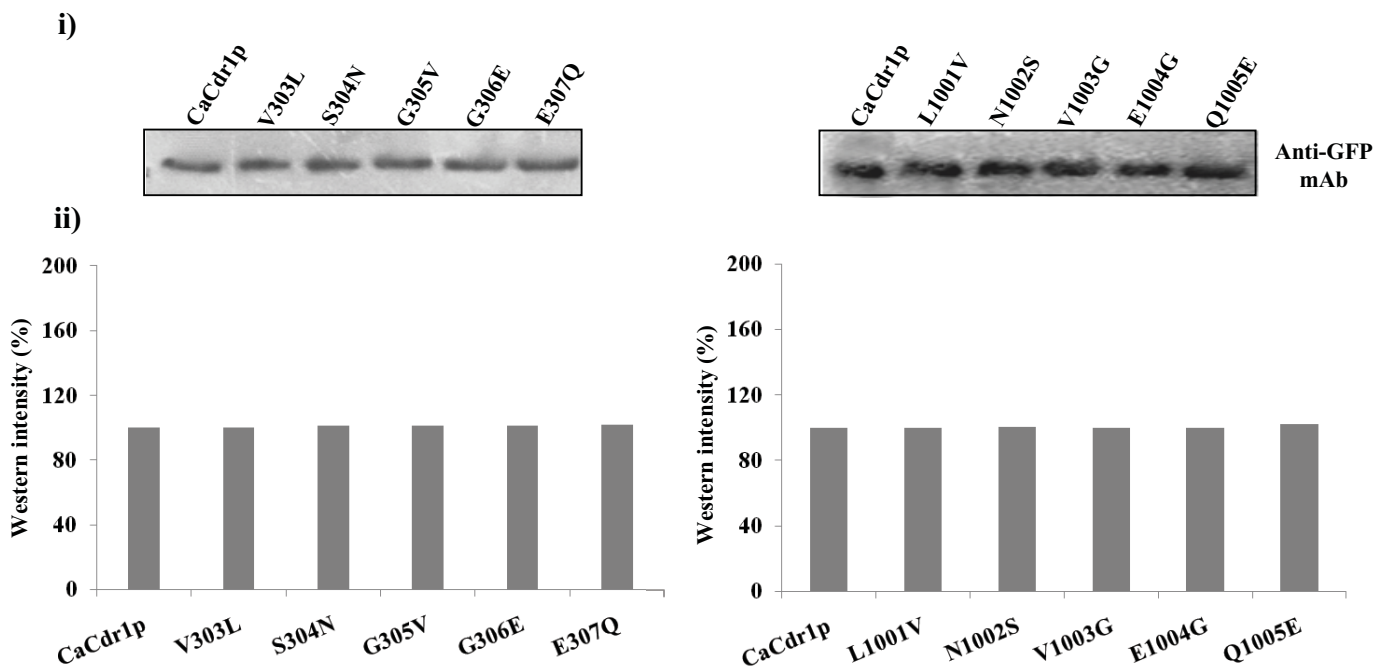
Name	Description	Reference
Yeast strain AD1-8u ⁻	MATa pdr1-3 hisG ura3 Δ yor1::hisG Δ snq2::hisG Δ pdr10::hisG Δ pdr11::hisG Δ ycf1::hisG Δ pdr15::hisG	[35]
CaCdr1p	AD1-8u- cells harboring CDR1-GFP ORF integrated at PDR5 locus	[34]
V303A	CDR1-GFP cells carrying V303A mutation in CDR1 ORF and integrated at PDR5 locus	This study
S304A	CDR1-GFP cells carrying S304A mutation in CDR1 ORF and integrated at PDR5 locus	This study
G305A	CDR1-GFP cells carrying G305A mutation in CDR1 ORF and integrated at PDR5 locus	This study
G306A	CDR1-GFP cells carrying G306A mutation in CDR1 ORF and integrated at PDR5 locus	This study
E307A	CDR1-GFP cells carrying E307A mutation in CDR1 ORF and integrated at PDR5 locus	This study
V303L	CDR1-GFP cells carrying V303L mutation in CDR1 ORF and integrated at PDR5 locus	This study
S304N	CDR1-GFP cells carrying S304N mutation in CDR1 ORF and integrated at PDR5 locus	This study
G305V	CDR1-GFP cells carrying G305V mutation in CDR1 ORF and integrated at PDR5 locus	This study
G306E	CDR1-GFP cells carrying G306E mutation in CDR1 ORF and integrated at PDR5 locus	This study
E307Q	CDR1-GFP cells carrying E307Q mutation in CDR1 ORF and integrated at PDR5 locus	This study
L1001A	CDR1-GFP cells carrying L1001 mutation in CDR1 ORF and integrated at PDR5 locus	This study
N1002A	CDR1-GFP cells carrying N1002A mutation in CDR1 ORF and integrated at PDR5 locus	This study
V1003A	CDR1-GFP cells carrying V1003A mutation in CDR1 ORF and integrated at PDR5 locus	This study
E1004A	CDR1-GFP cells carrying E1004A mutation in CDR1 ORF and integrated at PDR5 locus	This study
Q1005A	CDR1-GFP cells carrying Q1005A mutation in CDR1 ORF and integrated at PDR5 locus	This study
L1001V	CDR1-GFP cells carrying L1001V mutation in CDR1 ORF and integrated at PDR5 locus	This study
N1002S	CDR1-GFP cells carrying N1002S mutation in CDR1 ORF and integrated at PDR5 locus	This study
V1003G	CDR1-GFP cells carrying V1003G mutation in CDR1 ORF and integrated at PDR5 locus	This study
E1004G	CDR1-GFP cells carrying E1004G mutation in CDR1 ORF and integrated at PDR5 locus	This study
Q1005E	CDR1-GFP cells carrying Q1005E mutation in CDR1 ORF and integrated at PDR5 locus	This study
Signature 1-1	CDR1-GFP cells carrying mutation having two conserved Signature motif in CDR1 ORF and integrated at PDR5 locus	This study
Signature 2-2	CDR1-GFP cells carrying mutation having two degenerated Signature motif in CDR1 ORF and integrated at PDR5 locus	This study
Signature 2-1	CDR1-GFP cells carrying mutation by swapping the position of the Signature motifs in CDR1 ORF and integrated at PDR5 locus	This study

Figure S1



(i) Expression of WT-CaCdr1p and its alanine mutant variants. PM of WT-CaCdr1p and mutants expressing cells were prepared as described earlier [34]. Immuno-detection of proteins was performed by separating the PM proteins (5 μ g) on an 8% SDS PAGE, electroblotted on nitrocellulose membrane and incubated with mouse monoclonal anti-GFP antibody (diluted 1:5000). Proteins were detected by chemiluminescence using an ECL Kit (Amersham). (ii) Normalized signal intensity of Western blot of (i).

Figure S2



(i) Expression of WT-CaCdr1p and its mutant variants. PM of WT-CaCdr1p and mutants expressing cells were prepared as described earlier [34]. Immuno-detection of proteins was performed by separating the PM proteins (5 μ g) on an 8% SDS PAGE, electroblotted on nitrocellulose membrane and incubated with mouse monoclonal anti-GFP antibody (diluted 1:5000). Proteins were detected by chemiluminescence using an ECL Kit (Amersham). (ii) Normalized signal intensity of Western blot of (i).