

Figure S1 Confirmation growth curves of multicopy suppressors identified from MSP screen with glyoxal and/or isonicotinamide. Singly cloned ORFs under the control of native promoters on 2 μ plasmids were grown in Leu-synthetic media in the presence or absence of glyoxal.

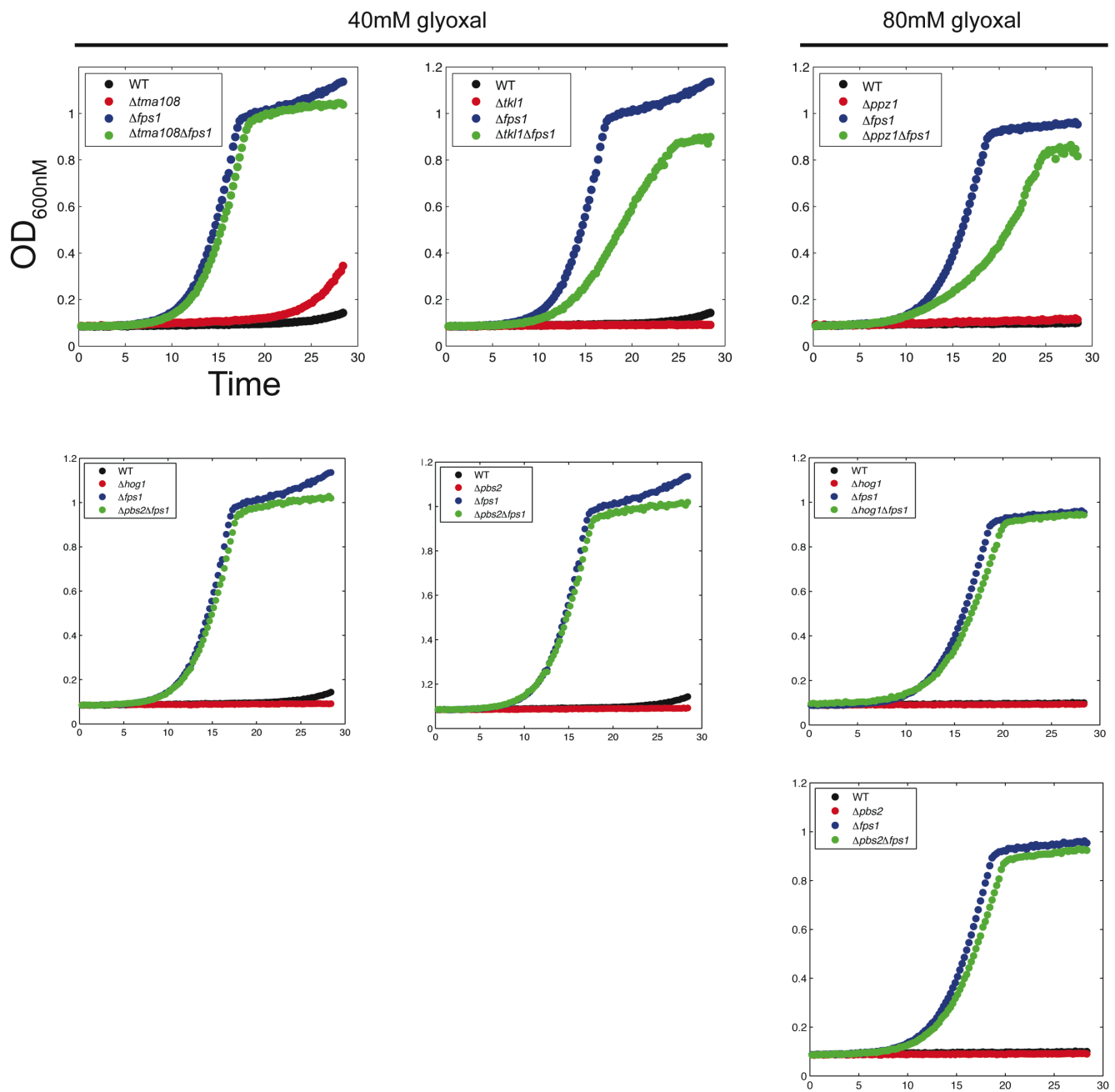


Figure S2 Loss of *Δfps1* suppresses glyoxal sensitivity of *Atma108*, *Δtkl1*, *Δpzs1*, *Δpbs2*, *Δhog1* mutants at higher glyoxal concentrations.

Tables S1-S4

Tables S1-S4 are available for download as Excel files online.

Table S1 This tables lists the strains that are significantly sensitive to methylglyoxal (false discovery rate < 0.05)
<http://www.g3journal.org/lookup/suppl/doi:10.1534/g3.111.000505/-/DC1/TableS1.xls>

Table S2 This tables lists the strains that are significantly sensitive to glyoxal (false discovery rate < 0.05)
<http://www.g3journal.org/lookup/suppl/doi:10.1534/g3.111.000505/-/DC1/TableS2.xls>

Table S3 This table lists the log₂ ratio values for the glyoxal resistance screen for three replicates performed on the homozygous deletion pool
<http://www.g3journal.org/lookup/suppl/doi:10.1534/g3.111.000505/-/DC1/TableS3.xls>

Table S4 This table lists the Gene Ontology enrichment for the deletion strains resistant to glyoxal as determined by GO TermFinder
<http://www.g3journal.org/lookup/suppl/doi:10.1534/g3.111.000505/-/DC1/TableS4.xls>

Table S5 Plasmids used in this study

Plasmids	Characteristics	Source
P5476	High copy number <i>LEU2</i> marker	Charlie Boone
P5476- <i>ZDS2</i>	High copy number <i>LEU2</i> marker, <i>ZDS2</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>GLO2</i>	High copy number <i>LEU2</i> marker <i>GLO2</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>THR1</i>	High copy number <i>LEU2</i> marker <i>THR1</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>YPR1</i>	High copy number <i>LEU2</i> marker <i>YPR1</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>SLG1</i>	High copy number <i>LEU2</i> marker <i>SLG1</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>PDE2</i>	High copy number <i>LEU2</i> marker <i>PDE2</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>GRE3</i>	High copy number <i>LEU2</i> marker <i>GRE3</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>PBS2</i>	High copy number <i>LEU2</i> marker <i>PBS2</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>RHO2</i>	High copy number <i>LEU2</i> marker <i>RHO2</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>MRPL28</i>	High copy number <i>LEU2</i> marker <i>MRPL28</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>STP1</i>	High copy number <i>LEU2</i> marker <i>STP1</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>HLR1</i>	High copy number <i>LEU2</i> marker <i>HLR1</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>MIG3</i>	High copy number <i>LEU2</i> marker <i>MIG3</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>MIG2</i>	High copy number <i>LEU2</i> marker <i>MIG2</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>ADH6</i>	High copy number <i>LEU2</i> marker <i>ADH6</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>YGR126W</i>	High copy number <i>LEU2</i> marker <i>YGR126W</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>SSK1</i>	High copy number <i>LEU2</i> marker <i>SSK1</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>GIS3</i>	High copy number <i>LEU2</i> marker <i>GIS3</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>HOG1</i>	High copy number <i>LEU2</i> marker <i>HOG1</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>SSK2</i>	High copy number <i>LEU2</i> marker <i>SSK2</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>ERG5</i>	High copy number <i>LEU2</i> marker <i>ERG5</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>GIS2</i>	High copy number <i>LEU2</i> marker <i>GIS2</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>MED8</i>	High copy number <i>LEU2</i> marker <i>MED8</i> -ORF plus regulatory regions	Charlie Boone
P5476- <i>PBN1</i>	High copy number <i>LEU2</i> marker <i>PBN1</i> -ORF plus regulatory regions	Charlie Boone
pRS426- <i>GLO1</i>	High copy number <i>URA3</i> marker <i>GLO1</i> -ORF plus regulatory regions	This study
pUG23- <i>FPS1GFP</i>	Low copy number <i>HIS3</i> marker <i>FPS1</i> -ORF driven by Met25 promoter	This study