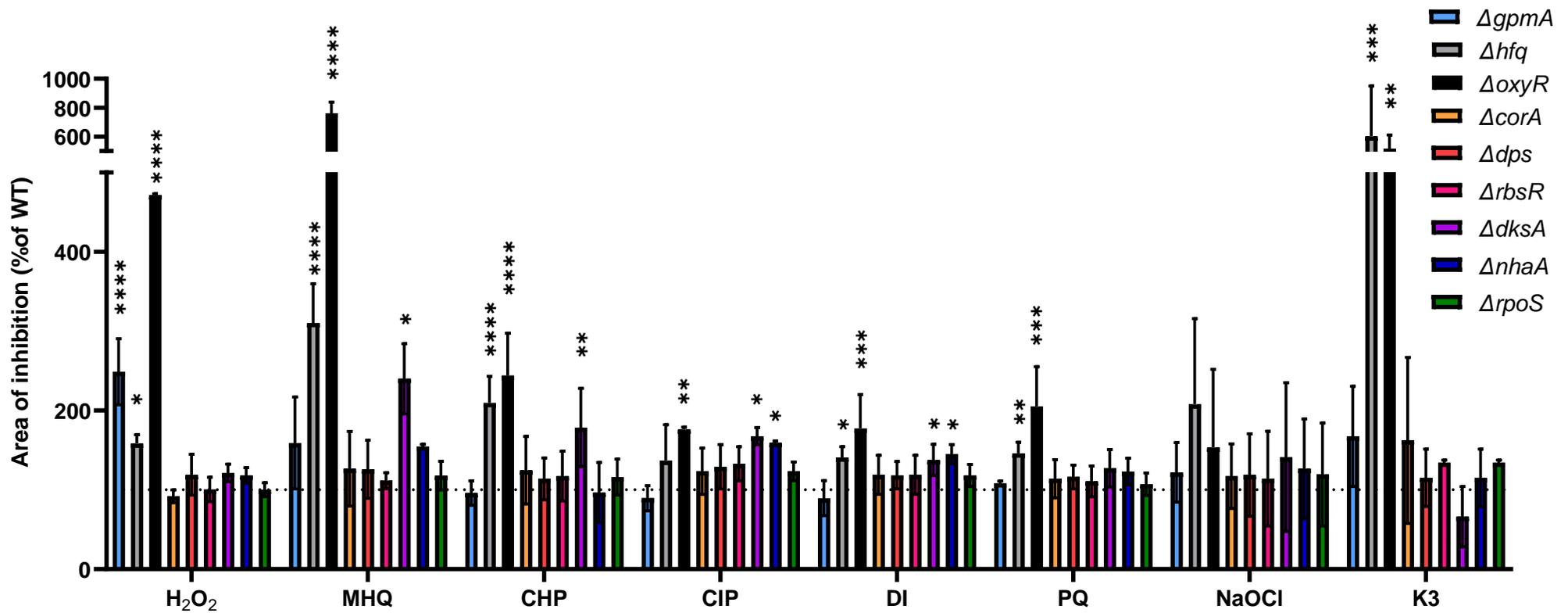
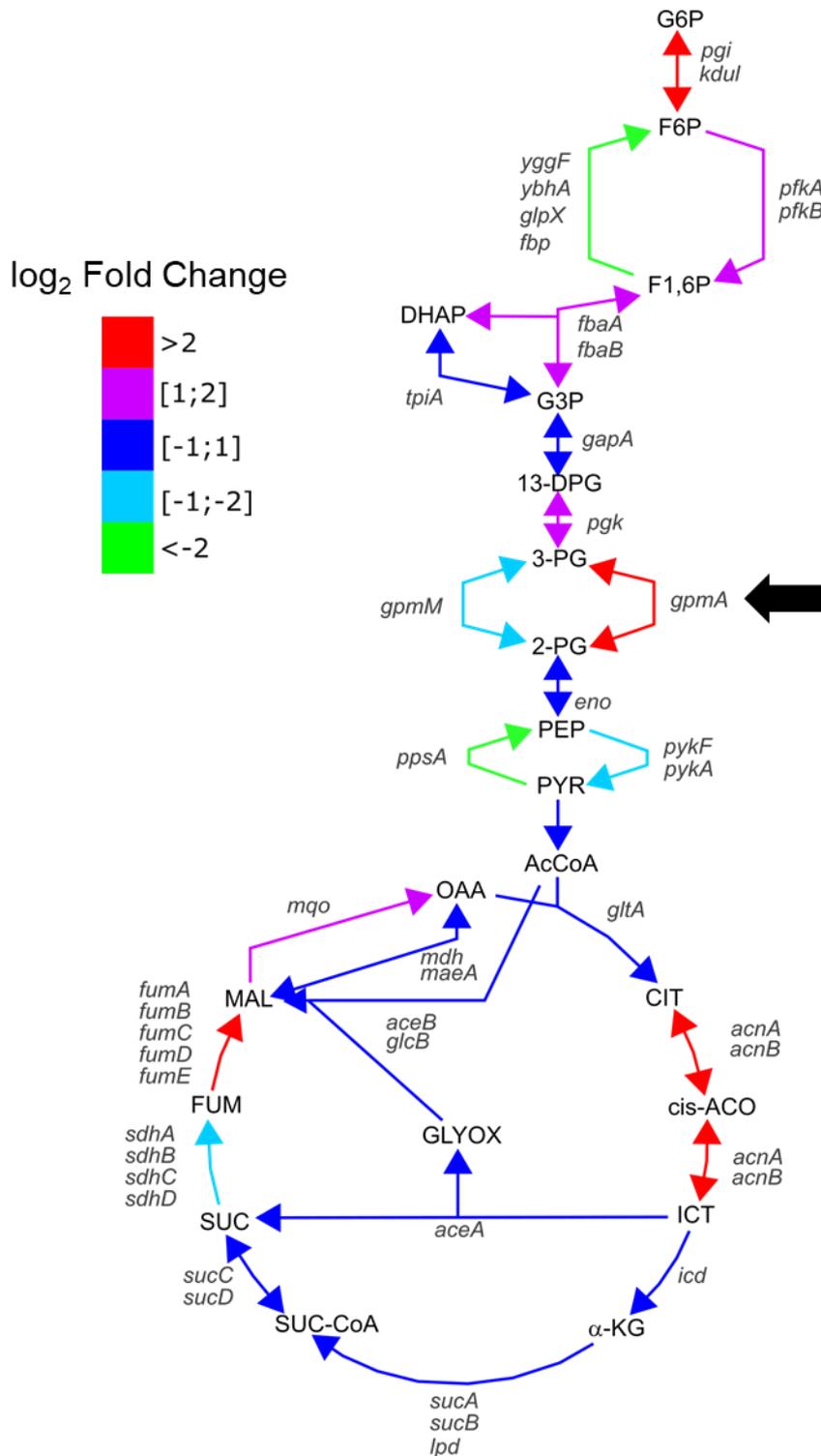


Supplementary Table S1. Primers used to validate the gene replacement by the kanamycin cassette from the Keio collection. Gene accession ID from Ecocyc database.

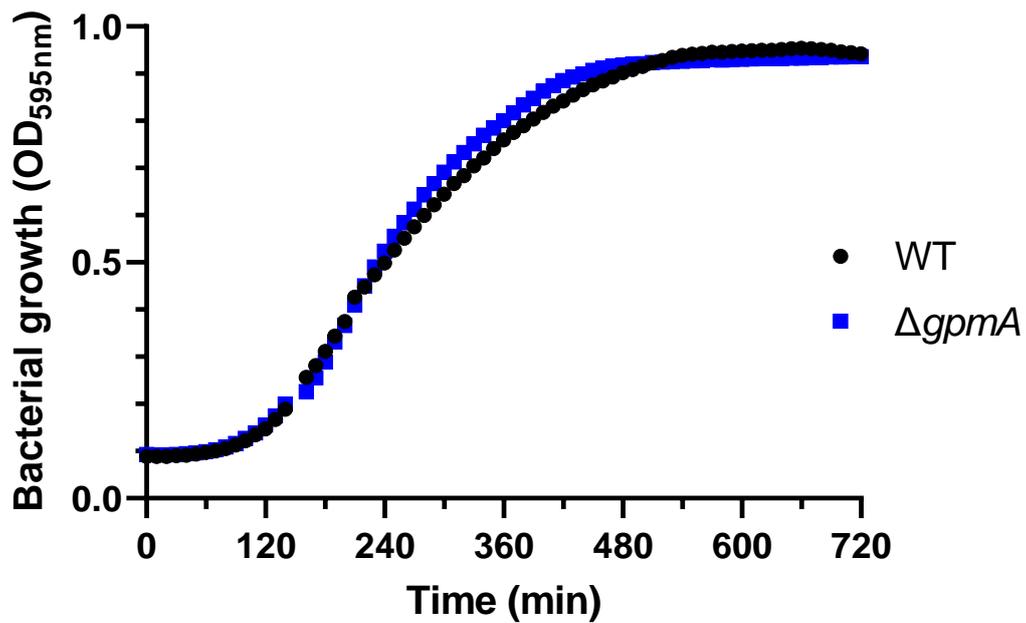
Name	Sequence	Gene accession ID	Reference
<u>gpmA_seq_F</u>	CCGATGCTCTGTTACGTCAAC	EG11699	This study
<u>gpmA_seq_R</u>	GCGAAGAGTATTCCAGCCTG		This study
<u>dksA_seq_F</u>	TCTTCTATGCGTACCAGCCAG	EG10230	This study
<u>dksA_seq_R</u>	TACATTCTGGTCGCGTGCG		This study
<u>rbsR_seq_F</u>	CATTGCCAGAGGCGATTCCG	EG10819	This study
<u>rbsR_seq_R</u>	GGAAGGCACAACGACTGTC		This study
<u>rpoS_seq_F</u>	GACAGTGTTAACGACCATTCTCG	EG10510	This study
<u>rpoS_seq_R</u>	GGAACCAGTTCAACACGCTTG		This study
<u>gpmM_seq_F</u>	CTGGCATCGGCTTGCC	EG12296	This study
<u>gpmM_seq_R</u>	TGGCGTAGATGATGGGCC		This study
<u>hfq_seq_F</u>	GCTATCGCAGGCTGAATGTGTAC	EG10438	This study
<u>hfq_seq_R</u>	GGTCAAACAAGCGTATAACCCTC		This study
<u>nhaA_seq_F</u>	GGCGCAAATTCTTCAATAGCTCG	EG10652	This study
<u>nhaA_seq_R</u>	ACGGAACCTTCTTTATAGACATGCC		This study
<u>corA_seq_F</u>	GTTGCTGTTAACACGAACAAATGG	EG11463	This study
<u>corA_seq_R</u>	GTTGCTGTTAACACGAACAAATGG		This study
<u>dps_seq_F</u>	CCACTATTAGTGTGATAGGAACAGCC	EG11415	This study
<u>dps_seq_R</u>	CCACTATTAGTGTGATAGGAACAGCC		This study



Supplementary Figure S1. Sensitivity of the deletion mutants of the TraDIS exposed to various oxidants. Quantification of the inhibition area normalized to WT for each oxidant and each gene deletion. Oxidant applied on each disk (CHP: cumene hydroperoxide, MHQ: methylhydroquinone, H₂O₂: hydrogen peroxide, CIP: ciprofloxacin, Di: diamide, AMP: ampicillin, K3: menadione, NaOCl: sodium hypochlorite, DMSO: dimethyl-sulfoxide); One-way ANOVA with Tukey multiple comparison was performed separately for each oxidant on the area of inhibition of the WT, $\Delta katG$ and the 9 mutants identified by TraDIS. The significance of the difference with the WT is represented on the normalized data by stars where */**/***/**** correspond to $p < 0.05, 0.01, 0.001, 0.0001$ respectively (mean +/- SD, N=3).



Supplementary Figure S2. Schematic diagram of H₂O₂-induced transcriptional changes of glycolysis and TCA cycle. The color code describes the differential expression of the genes coding for the enzyme catalyzing the described reactions 10 minutes after exposition to 2.5 mM H₂O₂ compared to no treatment. The *gpmA* gene is indicated by a black arrow. Data from previously performed RNA-seq (deposited on ENA with the accession number: PRJEB51098).



Supplementary Figure S3. The deletion of *gpmA* did not affect bacterial growth. Growth curves of the WT and the $\Delta gpmA$ mutant in liquid LB over time (mean, $N=3$).

An overnight culture of *E. coli* was normalized to 1.0 Mc Farland using a Densimat (bioMérieux) and further diluted 1:10 in fresh LB. This bacterial culture was grown in a volume of 1 mL in a 24-well plate (142475, ThermoFisher) and incubated at 37 °C with 5 mm orbital shaking in an Infinite 200PRO plate reader (Tecan). Absorbance was measured every 10 min at an optical density of 595 nm.