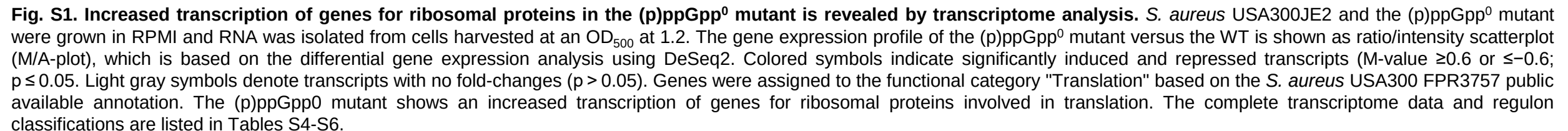


**(p)ppGpp<sup>0</sup> vs. WT stationary phase**



**(p)ppGpp<sup>0</sup> vs. WT log phase**

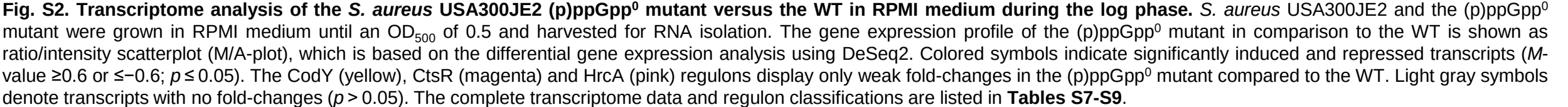
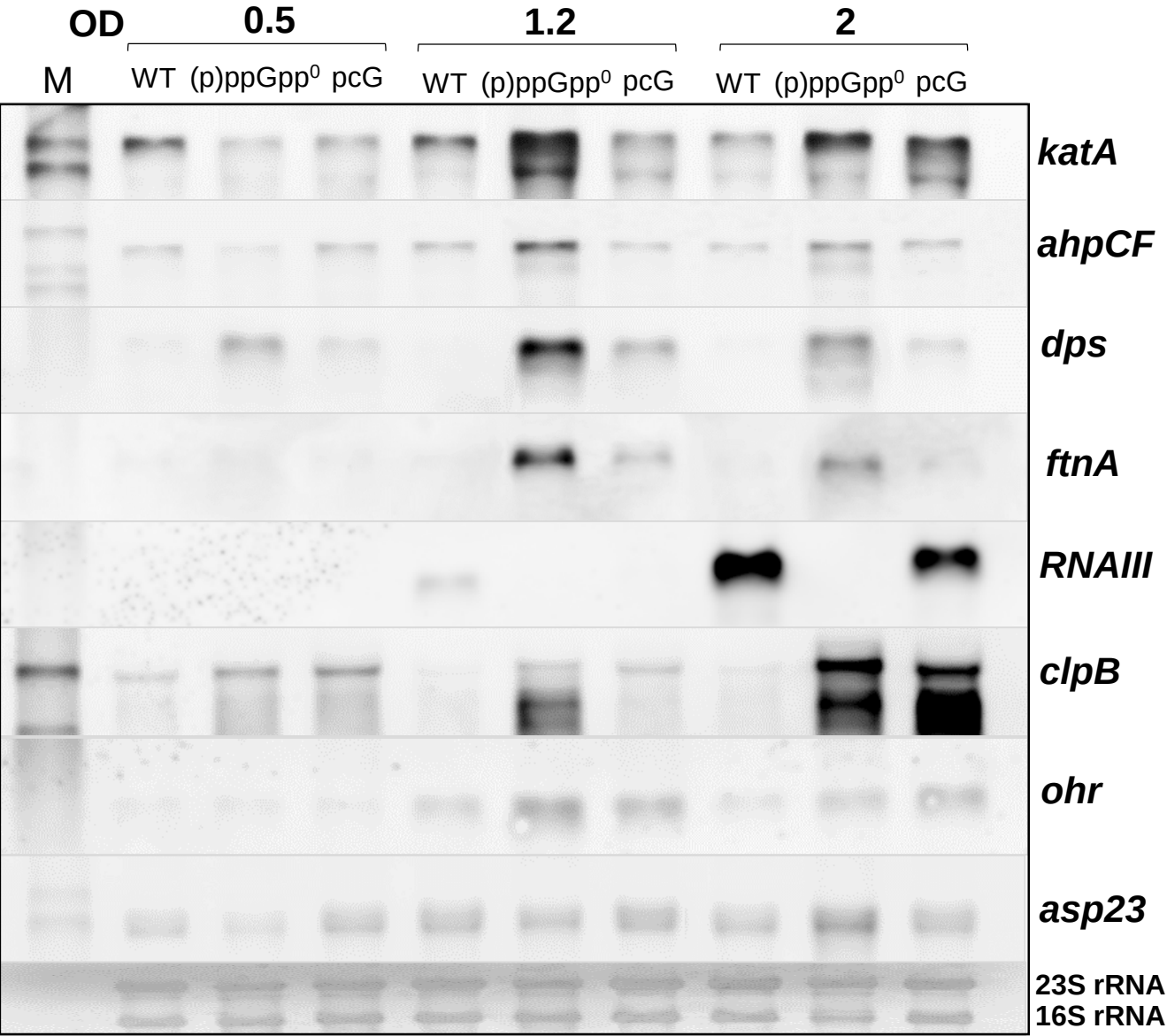


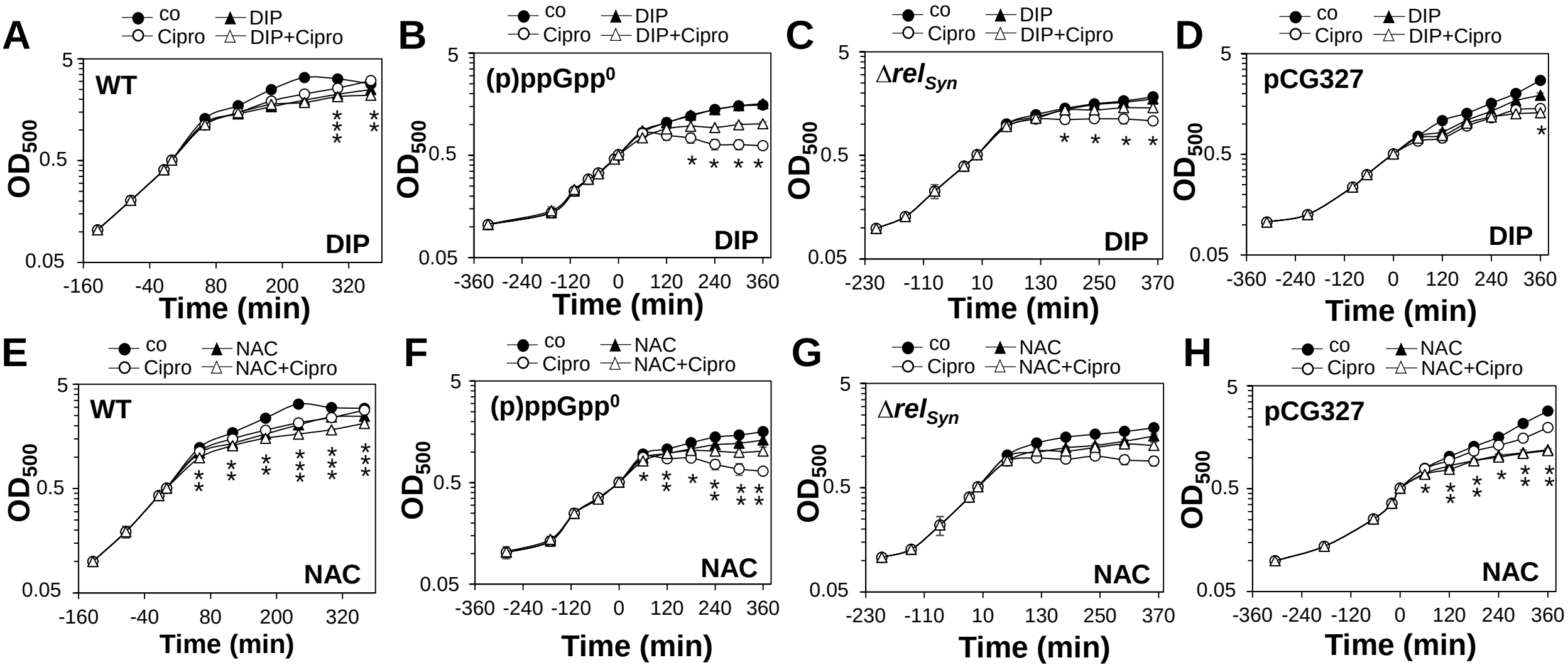
Figure S3



**Fig. S3. Transcriptional induction of the oxidative and iron stress response in the (p)ppGpp<sup>0</sup> mutant is abolished in the *S. aureus* (p)ppGpp complemented strain (pCG327).** RNA was isolated from the *S. aureus* USA300JE2 WT, (p)ppGpp<sup>0</sup> and the complemented strain (pCG327) after growth in RPMI medium during the log and stationary phase at OD<sub>500</sub>=0.5, 1.2 and 2. Transcription of genes of the PerR (*katA*, *ahpCF*, *dps*, and *ftnA*), SigmaB (*asp23*, *ohr*), Agr (*RNAIII*) and CtsR (*clpB*) regulons was analyzed using Northern blots similar as in Fig.3. The methylene blue stain is the RNA loading control showing the abundant 16S and 23S rRNAs.

Figure S4

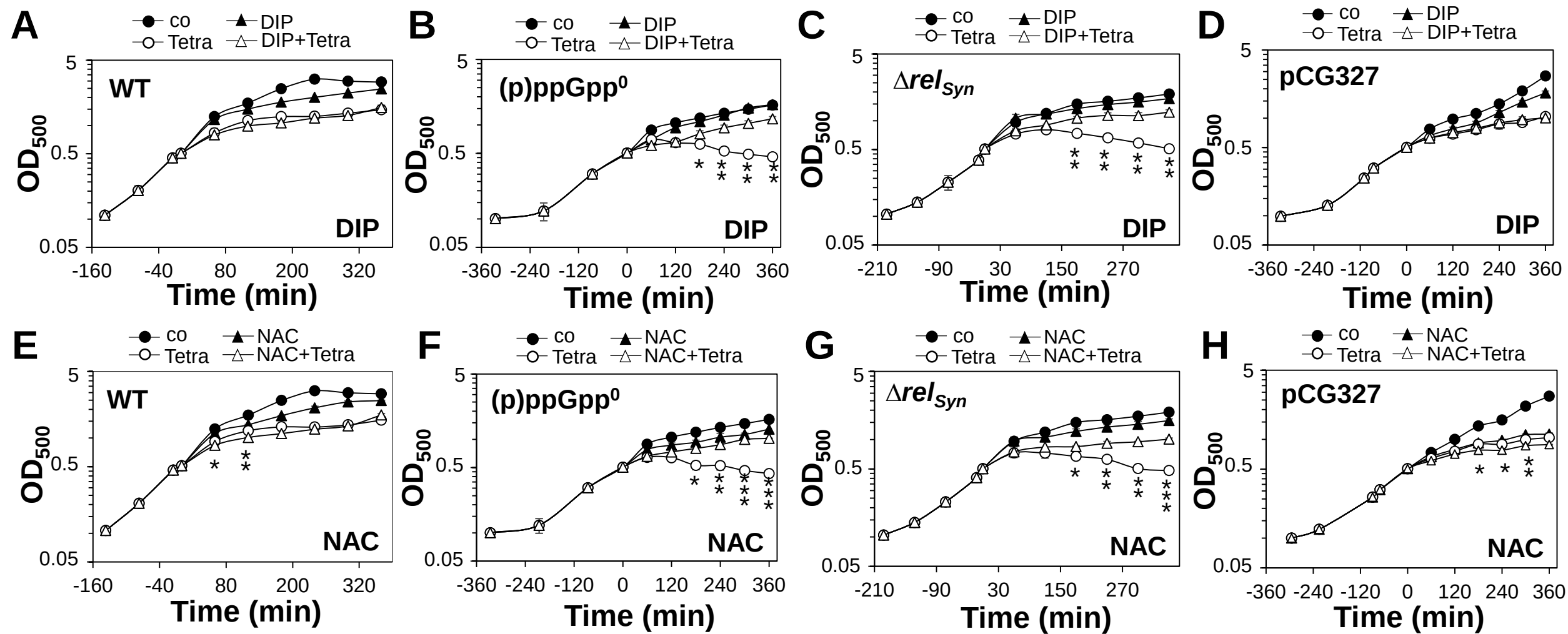
Ciprofloxacin



**Fig. S4. Iron and ROS scavengers increase tolerance of the (p)ppGpp<sup>0</sup> and  $rel_{Syn}$  mutant after ciprofloxacin stress.** (A-H) For the growth curves, *S. aureus* USA300JE2 wild type, (p)ppGpp<sup>0</sup> and  $\Delta rel_{Syn}$  mutants as well as the complemented strain (pCG327) were grown in RPMI medium until an OD<sub>500</sub> of 0.5 and treated with sub-lethal concentration of 10 mM dipyridyl (DIP) (A-D) or 1.25 mM N-acetyl cysteine (NAC) (E-H) prior to exposure of 90.5  $\mu$ M ciprofloxacin. The addition of dipyridyl and N-acetyl cysteine significantly improves the growth of the (p)ppGpp<sup>0</sup> and  $rel_{Syn}$  mutants under ciprofloxacin stress. The results are from 3-4 biological replicates. Error bars represent the standard deviation. Statistical test “Cipro” vs “NAC/DIP+Cipro”: \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$ .

Figure S5

Tetracycline



**Fig. S5. Iron and ROS scavengers increase the tolerance of the (p)ppGpp<sup>0</sup> and *rel<sub>Syn</sub>* mutant after tetracycline treatment.** For the growth curves, *S. aureus* USA300JE2 WT, (p)ppGpp<sup>0</sup> and  $\Delta rel_{Syn}$  mutants as well as the complemented strain (pCG327) were grown in RPMI until an OD<sub>500</sub> of 0.5 and treated with sub-lethal concentrations of 10 mM dipyridyl (DIP) (A-D) or 1.25 mM N-acetyl cysteine (NAC) (E-H) prior to exposure of 5.19 mM tetracycline. The addition of N-acetyl cysteine and dipyridyl significantly improves the growth of the (p)ppGpp<sup>0</sup> and *rel<sub>Syn</sub>* mutants under tetracycline stress. The results are from 3-4 biological replicates. Error bars represent the standard deviation. Statistical test “Tetra” vs “NAC/DIP+Tetra”: \**p* < 0.05; \*\**p* < 0.01; \*\*\**p* < 0.001.