

Figure S1. Growth curves of the *pbp1* deletion strain. Overnight cultures of the $\Delta pbp1$ (HM-8) and DP-1 strains were inoculated into XTU liquid medium and cultivated at 50–70 °C (**a–e**) without shaking. The error bars indicate the mean \pm SD, calculated from triplicate experiments. Black line: the growth of DP-1; red line: the growth of $\Delta pbp1$ (HM-8).

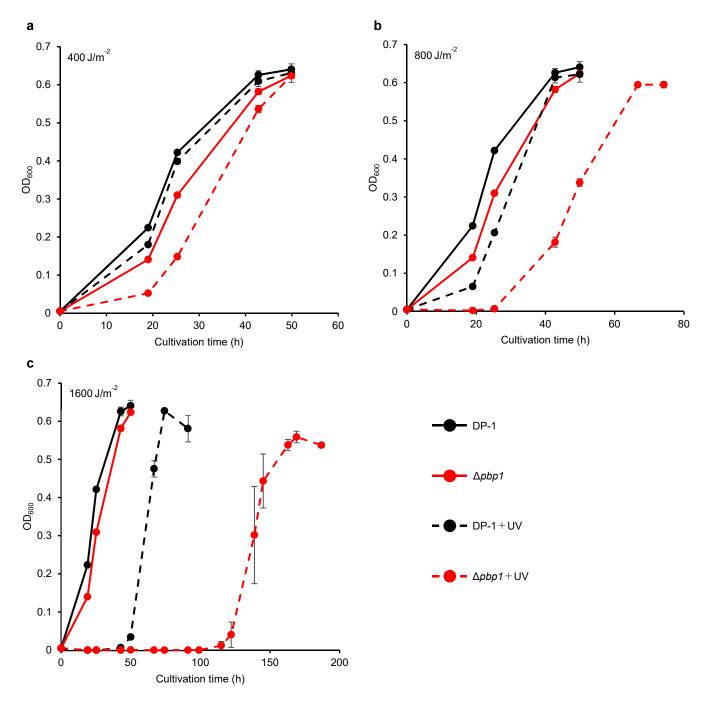


Figure S2. Growth of the *pbp1* deletion strain after UV-B irradiation. Overnight cultures of the $\Delta pbp1$ (HM-8) and DP-1 strains were irradiated with UV for 20, 40, and 80 sec (400 (a), 800 (b), and 1600 J/m² (c)) and cultivated at 75 °C with shaking. +UV represents a UV-treated sample. The error bars indicate the mean ± SD calculated from triplicate experiments. Black line: the growth of DP-1; red line: the growth of $\Delta pbp1$ (HM-8).

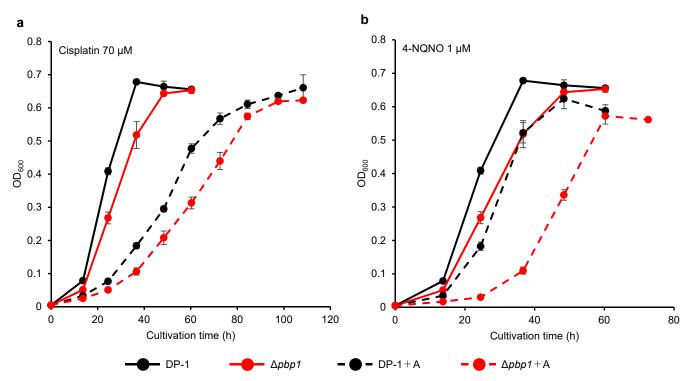


Figure S3. Growth of the *pbp1* deletion strain in the presence of DNA-damaging agents. Overnight cultures of the $\Delta pbp1$ (HM-8) and DP-1 strains were inoculated into liquid medium in the presence of DNA-damaging agents (cisplatin (70 μM (**a**)) and 4-NQNO (1 μM (**b**)) and cultivated at 75 °C with shaking. +A represents the growth with DNA-damaging agents. The error bars indicate the mean \pm SD, calculated from triplicate experiments. Black line: the growth of DP-1; red line: the growth of $\Delta pbp1$ (HM-8).

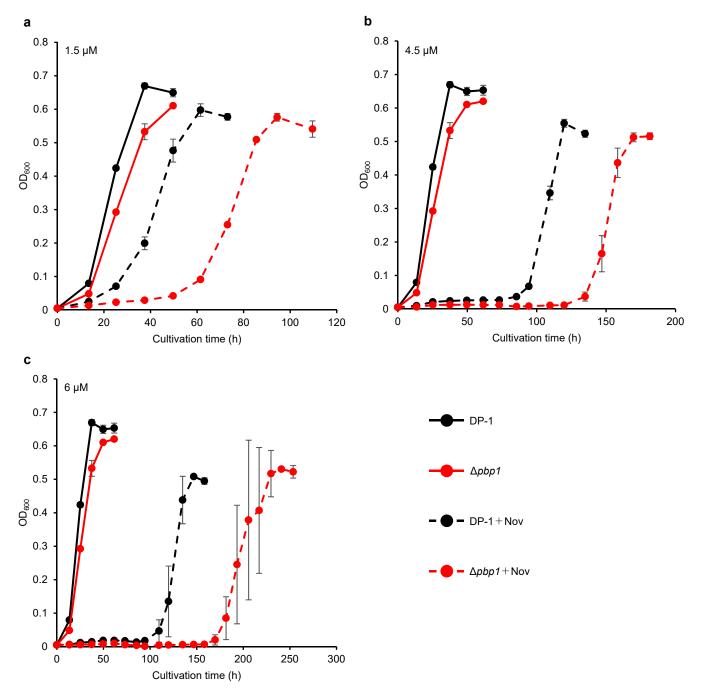


Figure S4. Growth of the *pbp1* deletion strain in the presence of novobiocin. Overnight cultures of the $\Delta pbp1$ (HM-8) and DP-1 strains were inoculated into liquid medium in the presence of novobiocin (1.5 (a), 4.5 (b), and 6 μ M (c)) and cultivated at 75 °C with shaking. +Nov represents the growth with novobiocin. The error bars indicate the mean \pm SD, calculated from triplicate experiments. Black line: the growth of DP-1; red line: the growth of $\Delta pbp1$ (HM-8).

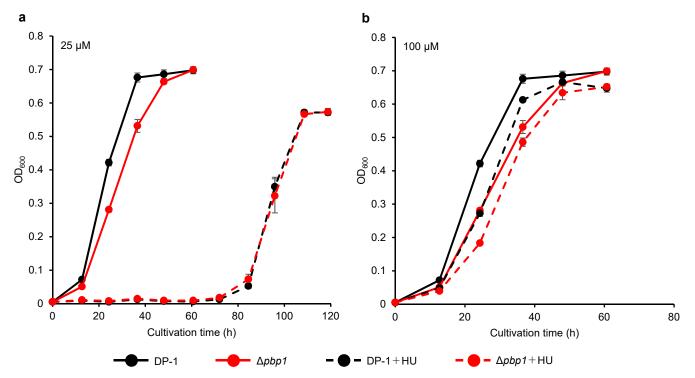


Figure S5. Growth of the *pbp1* deletion strain in the presence of HU. Overnight cultures of the $\Delta pbp1$ (HM-8) and DP-1 strains were inoculated into liquid medium in the presence of HU (25 (a) and 100 μ M (b)) and cultivated at 75 °C with shaking. +HU represents the growth with HU. The error bars indicate the mean \pm SD, calculated from triplicate experiments. Black line: the growth of DP-1; red line: the growth of $\Delta pbp1$ (HM-8).