



SUPPLEMENTARY FIG. S4. Cys57 is responsible for H₂O₂ reaction. The indicated GPx7 variants (20 μ M) were incubated without (*lanes 1–8*) or with 40 μ M H₂O₂ (*lanes 9–12*). Samples were then treated by adding NR 2 \times SDS-loading buffer containing 10 mM mPEG-mal (*lanes 5–12*) or reducing (R) SDS-loading buffer (*lanes 1–4*), and resolved by SDS-15% PAGE. The numbers of thiols modified by mPEG-mal were indicated on the right margin.