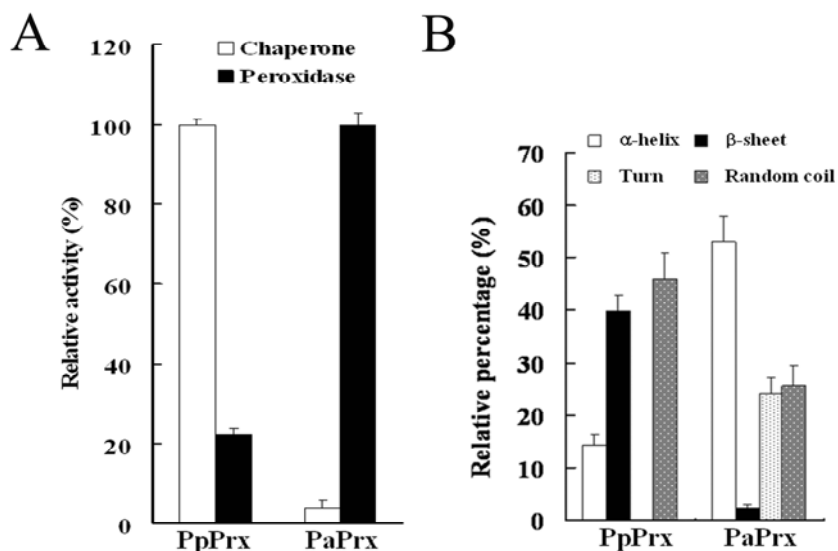


1 **SUPPLEMENTARY INFORMATION**

2 **Supplementary Figures**



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5 **Supplementary Figure 1. Comparison of the characteristics of PpPrx and**

6 **PaPrx. (A)** The peroxidase activities of recombinant PpPrx and PaPrx were

7 measured with the yeast Trx system. The chaperone activities of two recombinant

8 Prxs were measured based on the aggregation of MDH at 43°C. The relative

9 activities of the two Prx proteins were compared to those of the respective dominant

10 activities. The chaperone activity of PpPrx and the peroxidase activity of PaPrx were

11 set to 100%. The two recombinant Prxs possessed opposite tendencies in

12 chaperone and peroxidase activities. Data shown are the means of at least three

13 independent experiments. **(B)** The comparison of the secondary structure index

14 values (%) was based on the far UV-CD spectra of the two Prx proteins. Data shown

15 are the means of at least three independent experiments.

16