

Supplementary Material

Phosphatidylethanolamine and Cardiolipin Differentially Affect the Stability of Mitochondrial Respiratory Chain Supercomplexes

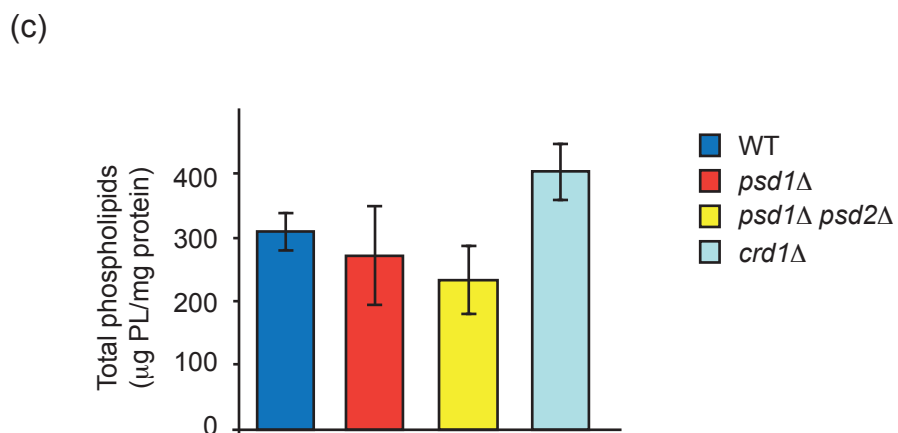
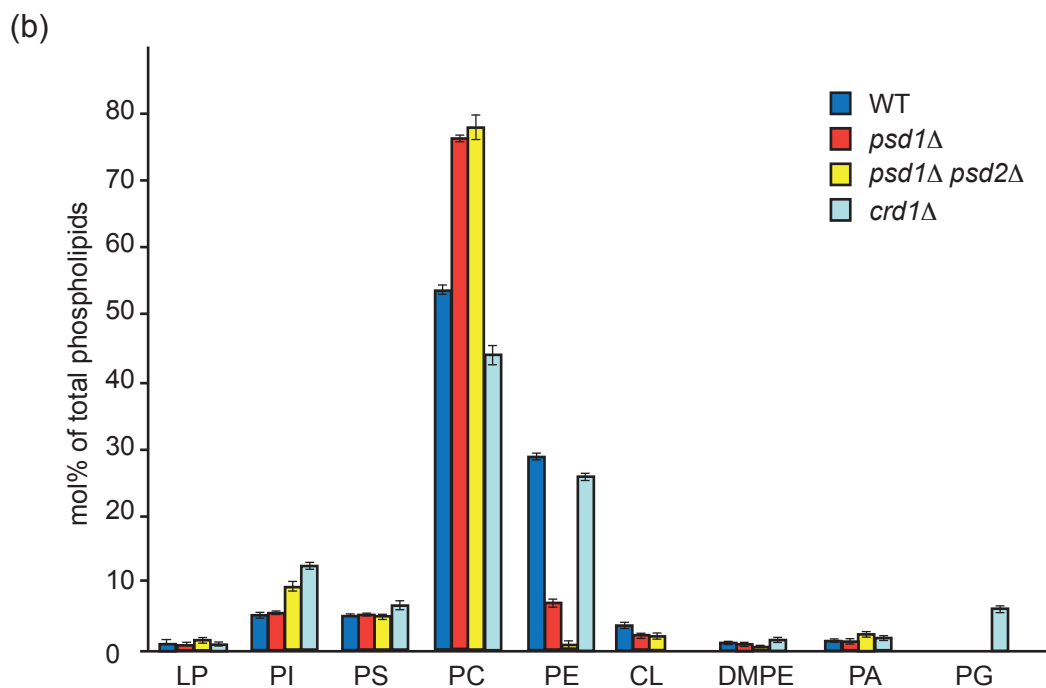
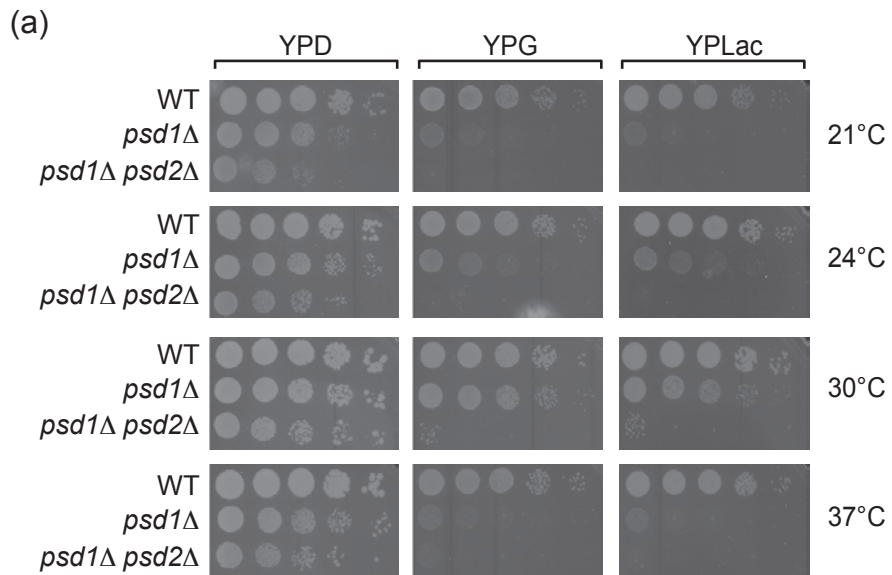
Böttinger, L. *et al.*

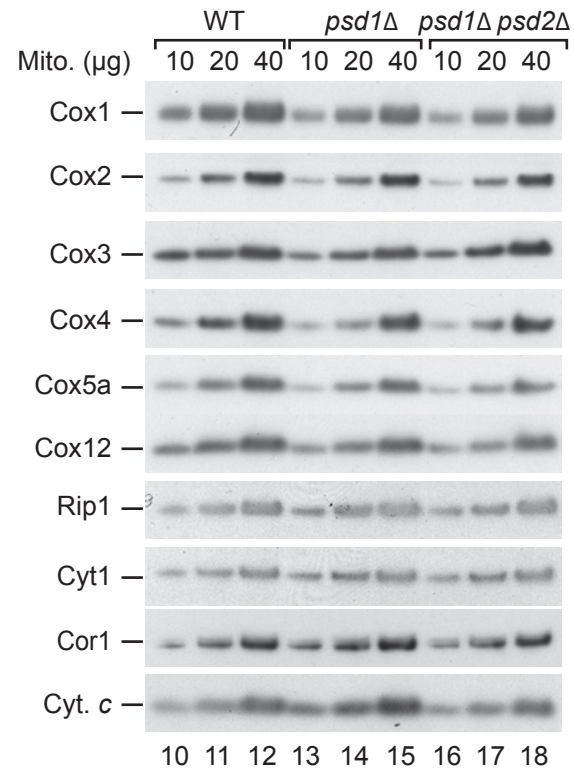
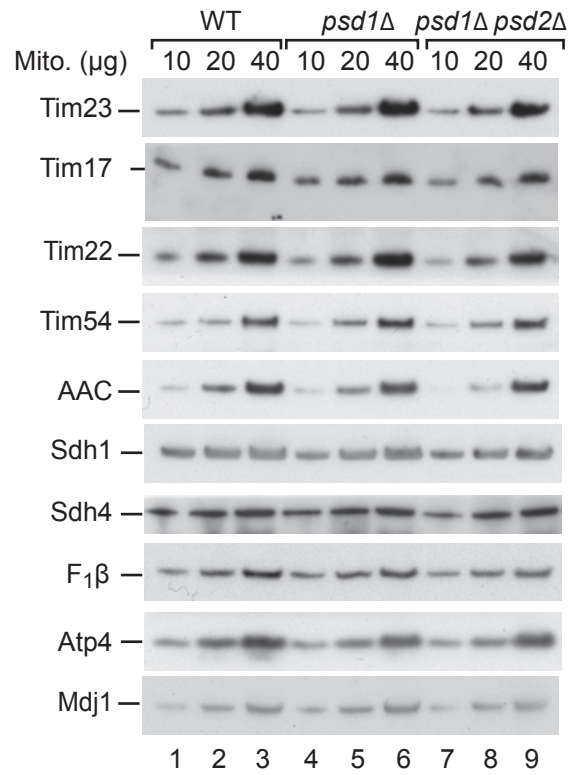
Supplementary Figure Legends

Supplementary Fig. S1. Growth and phospholipid distribution of wild-type, *psd1* Δ and *psd1* Δ *psd2* Δ yeast cells. (a) Growth of wild-type, *psd1* Δ and *psd1* Δ *psd2* Δ yeast cells (serial dilutions) was analyzed on the indicated growth media and temperatures. YPD: 1% (w/v) yeast extract, 2% (w/v) Bacto Peptone and 2% (w/v) glucose; YPG: 1% (w/v) yeast extract, 2% (w/v) Bacto Peptone and 3% (v/v) glycerol; YPLac: 1% (w/v) yeast extract, 2% (w/v) Bacto Peptone, 2.2% (v/v) lactic acid, 0.05% (w/v) glucose, 0.05% (w/v) CaCl₂, 0.1% (w/v) KH₂PO₄, 0.1% (w/v) NH₄Cl, 0.05% (w/v) NaCl, 0.8% (w/v) NaOH, pH 5.0. (b) The phospholipid composition of wild-type, *psd1* Δ , *psd1* Δ *psd2* Δ and *crd1* Δ cell extracts was determined as described.^{69,71,72} Mean values with standard error of the mean are shown (n = 4). DMPE, dimethylphosphatidylethanolamine; LP, lysophospholipids; PA, phosphatidic acid; PC, phosphatidylcholine; PG, phosphatidylglycerol; PI, phosphatidylinositol; PS, phosphatidylserine. (c) Inner membrane vesicles from wild-type, *psd1* Δ , *psd1* Δ *psd2* Δ and *crd1* Δ mitochondria were isolated by sucrose gradient centrifugation.⁷⁰ Phospholipids were extracted and the total phospholipid content was determined as described⁷³. Shown are the mean values of two determinations with range.

Supplementary Fig. S2. Steady-state levels of proteins in wild-type, *psd1* Δ and *psd1* Δ *psd2* Δ yeast mitochondria. The indicated amounts (total protein) of wild-type,

psd1 Δ and *psd1* Δ *psd2* Δ mitochondria were subjected to SDS-PAGE. Proteins were detected by Western blotting using the indicated antibodies.





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