

**Supplemental data table 7S: Source of raw files**

Origin of raw files for the construction of raw spectral libraries.

cultivation	sample preparation	number of raw files
wild type, stress condition: 48 °C	cytosolic fraction, enriched membrane fraction	20
wild type, stress condition: 0.3 mM BIP	cytosolic fraction, enriched membrane fraction	21
wild type, stress condition: 10 mM H <sub>2</sub> O <sub>2</sub>	cytosolic fraction, enriched membrane fraction	32
wild type, stress condition: 0.1 mM methylviologen	cytosolic fraction, enriched membrane fraction	20
wild type, stress condition: 2 mM TMAD	cytosolic fraction, enriched membrane fraction	21
wild type, stress conditions: 8% NaCl	cytosolic fraction, enriched membrane fraction	21
wild type, chemical defined medium, stress condition: glucose limitation (0.05% glucose)	cytosolic fraction, enriched membrane fraction	19
wild type, chemical defined medium	cytosolic fraction, enriched membrane fraction, extracellular fraction	22
<i>ΔptpB</i> , chemical defined medium	phosphoenrichment fractions	34
wild type, stationary growth phase	cytosolic fraction, enriched membrane fraction, extracellular fraction	22
wild type, late stationary growth phase	cytosolic fraction, enriched membrane fraction, extracellular fraction	25
wild type, exponential growth phase	cytosolic fraction, enriched membrane fraction, phosphoenrichment fractions	330
<i>ΔptpB</i> , exponential growth phase	phosphoenrichment fractions	410
synthetic arginine phosphorylated peptides		98