Cbp3 and Cbp6 are dispensable for synthesis regulation of Cytochrome *b* in yeast mitochondria

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Running title: *Cbp3 and Cbp6 are dispensable for Cytb synthesis*

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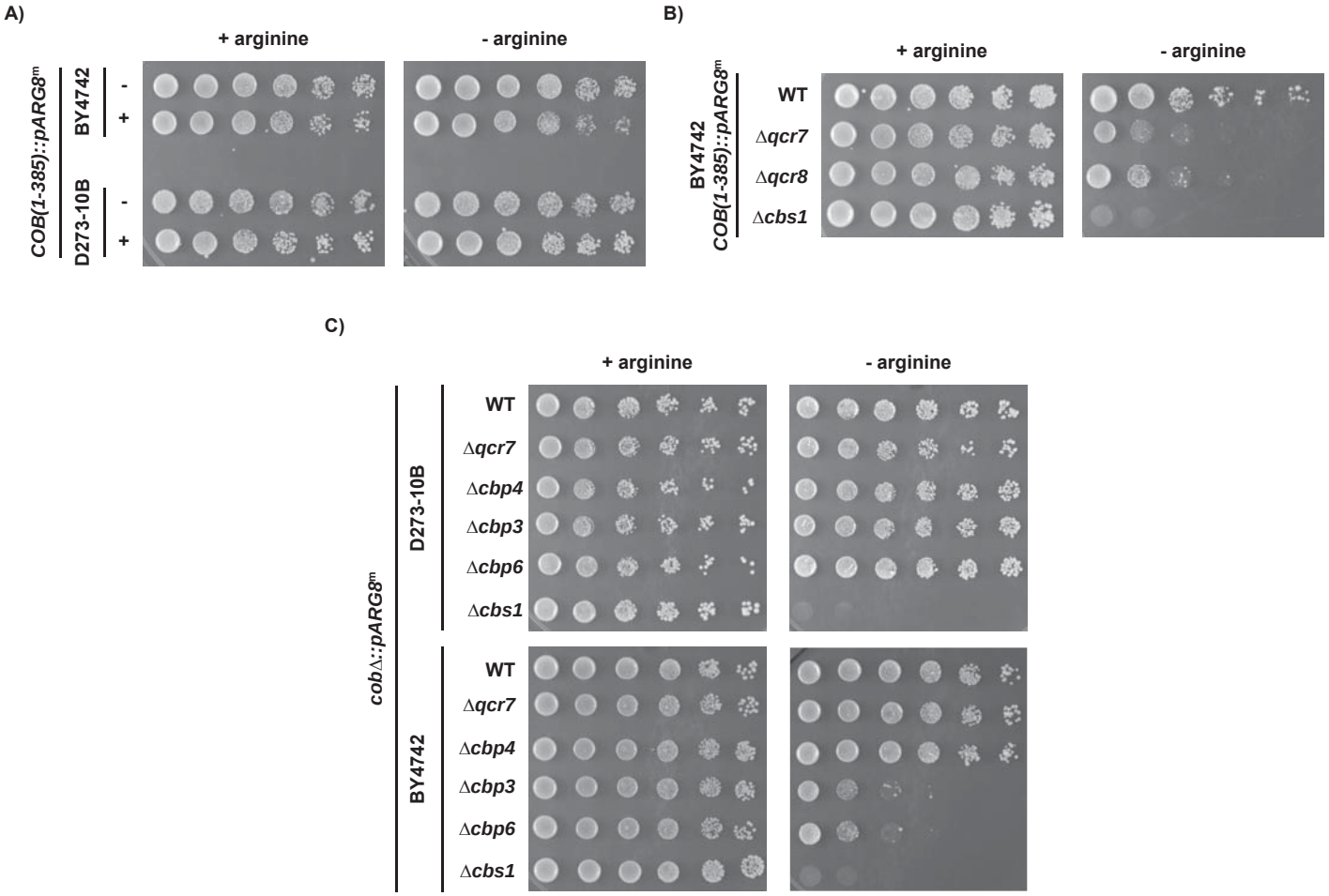
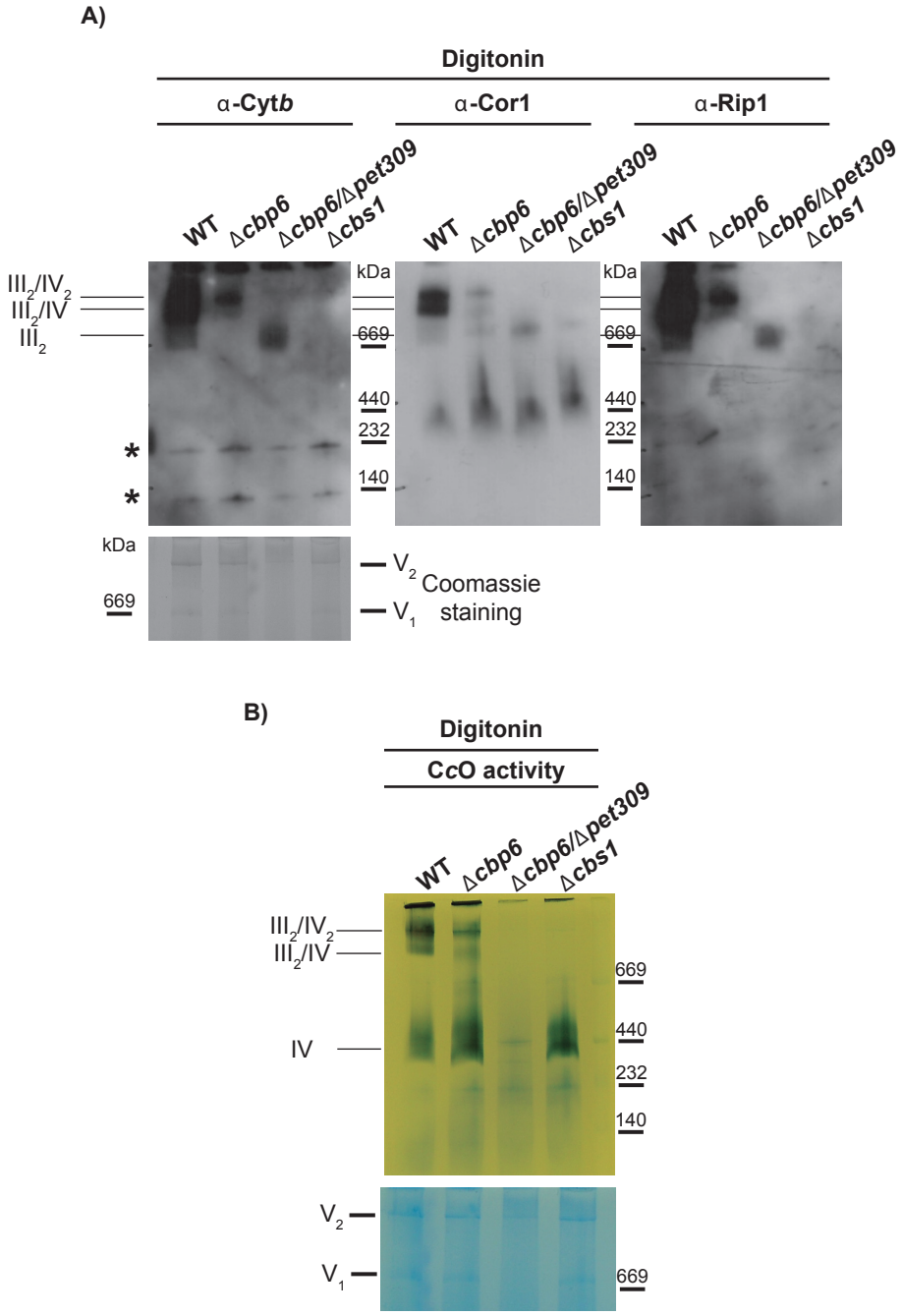
Supporting Figure 1



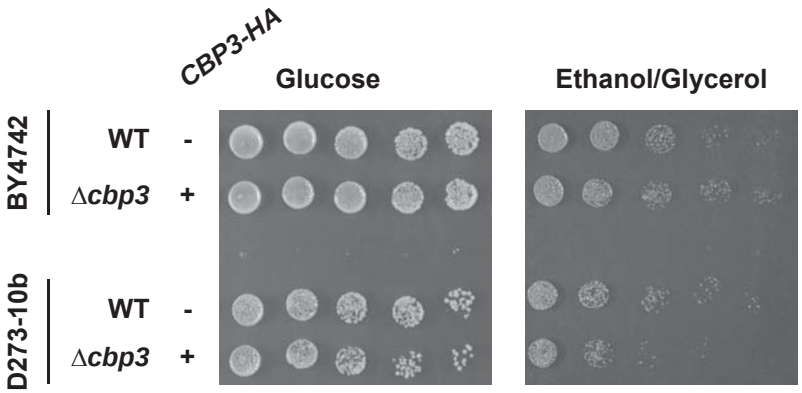
Supporting Figure 1. The construct *COB(1-385)::pARG8^m* was used as reporter for *COB* mRNA translation. (A) Cells carrying the *COB(1-385)::pARG8^m* construct in mitochondria or the wild-type nuclear *ARG8* gene were spotted on 10-fold serial dilutions on complete media or media lacking arginine, and were incubated for 3 days at 30°C. (B) Cells carrying the *COB(1-385)::pARG8^m* mitochondrial reporter and the indicated mutations were grown on serial dilutions as in (A). (C) *COB* codons were replaced by *pARG8m* to create the construct *cobΔ::pARG8^m* . D273-10B or BY4742 cells with the indicated mutations were grown on serial dilutions as in (A).

Supporting Figure 2



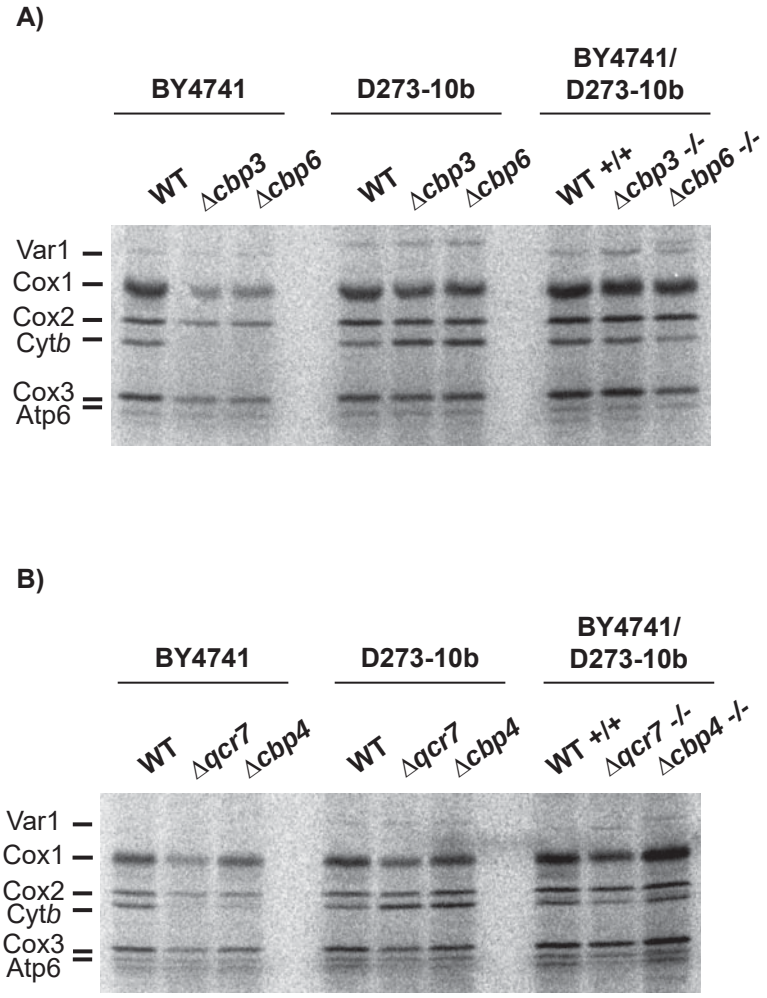
Supporting Figure 2. The supercomplex-like bands observed in the absence of Cbp6 depend on the cytochrome *c* oxidase. Mitochondria (200 µg) from wild-type, Δ*cbp6* and Δ*cbp6/*Δ*pet309* mutants were solubilized with digitonin, loaded in a BN-PAGE system and either analyzed by western blot with the indicated antibodies (A) or stained for C*c*O oxidase activity (B). Coomassie-stained ATP synthase dimer and monomer were used as loading control.

Supporting Figure 3



Supporting Figure 3. The hemaglutinin epitope (HA) fused to the carboxyl-terminal end of Cbp3 does not interfere with yeast cells respiratory growth. Cells carrying wild-type Cbp3 or Cbp3-HA expressed from centromeric plasmids were spotted on ten-fold serial dilutions glucose or ethanol/glycerol media lacking uracil, and were grown as 10-fold serial dilutions for 3 days at 30°C.

Supporting Figure 4



Supporting Figure 4. The phenotype over Cyt*b* synthesis of D273-10b cells is dominant with respect to the BY4742 strain phenotype. Mitochondrial translation products from whole cells of the indicated mutants in the presence of cycloheximide and [^{35}S]-methionine were analyzed. Haploid, D273-10b and BY4742 cells, as well as diploids obtained from a cross between D273-10b and BY4742 cells were used.