

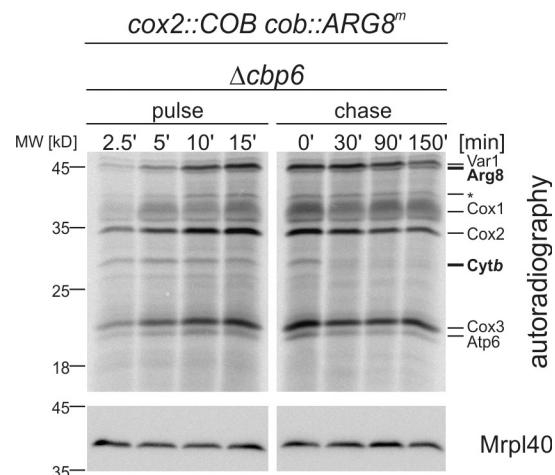
Gruschke et al., <http://www.jcb.org/cgi/content/full/jcb.201206040/DC1>

Figure S1. Cells carrying the cox2::COB cob::ARG8^m mitochondrial genome and lacking Cbp6 show the same phenotype as the corresponding Δcbp3 mutant. Mitochondrial translation products were radioactively labeled and proteins were extracted like described in Fig. 2 E. The asterisk indicates a degradation product of Arg8. For comparison with the corresponding wild type and Δcbp3 mutant as well as for quantification, see Fig. 2 E.

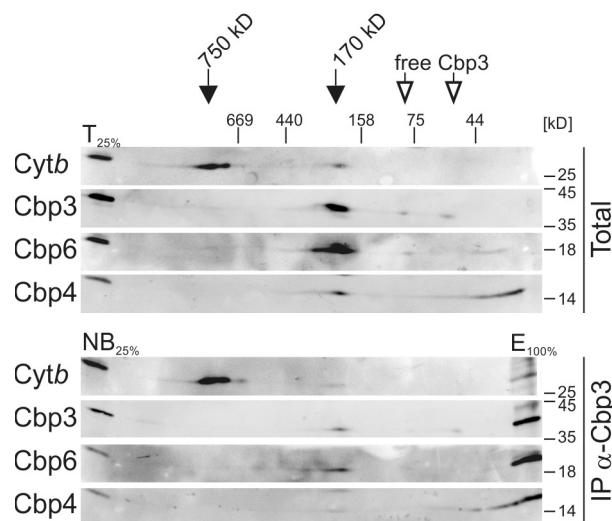


Figure S2. The 170-kD complex (intermediate I) is composed of Cbp3, Cbp6, Cbp4, and cytochrome b, and can be specifically depleted using an antibody against Cbp3. Mitochondria harboring the cox2::COB cob::ARG8^m mitochondrial genome were lysed in digitonin, and Cbp3-containing complexes were depleted in an IP as described in Fig. 2 B. Total (top) and unbound (bottom) fractions were subjected to 2D BN/SDS-PAGE and analyzed by Western blotting. After the IP, Cbp3, Cbp6, Cbp4, and cytochrome b from the 170-kD assembly intermediate were depleted and found in the SDS-eluted fraction (E_{100%}), whereas cytochrome b present in the 750-kD form (which corresponds to supercomplexes) and the low molecular weight form of Cbp4 are kept in the unbound material. T_{25%}, 25% of the mitochondrial lysate before the IP that was used for 2D BN/SDS-PAGE. NB_{25%}, 25% of the unbound material after the IP that was used for 2D BN/SDS-PAGE. The Cytb and Cbp3 data shown here are presented again in Fig. 4 B.

Table S1. Strains used in this study

Name	Alias	Parental strain	Nuclear genotype	Mitochondrial genotype	References
MOY119	MRSI ⁰	W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3</i>	wt; intronless	Gruschke et al., 2011
MOY142		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cbp3:: kanMX4</i>	wt; intronless	Gruschke et al., 2011
MOY176		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cbp4:: kanMX4</i>	wt; intronless	Gruschke et al., 2011
MOY205		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cbp6:: kanMX4</i>	wt; intronless	Gruschke et al., 2011
MOY504		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 bca1:: kanMX4</i>	wt; intronless	This study
MOY470		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 bcs1:: kanMX4</i>	wt; intronless	This study
MOY623		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 mzm1:: kanMX4</i>	wt; intronless	This study
MOY309		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr7:: kanMX4</i>	wt; intronless	This study
MOY465		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr8:: kanMX4</i>	wt; intronless	This study
MOY468		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cor1:: kanMX4</i>	wt; intronless	This study
MOY350		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cor2:: kanMX4</i>	wt; intronless	This study
MOY469		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cyt1:: kanMX4</i>	wt; intronless	This study
MOY464		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr6:: kanMX4</i>	wt; intronless	This study
MOY466		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr9:: kanMX4</i>	wt; intronless	This study
MOY467		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr10:: kanMX4</i>	wt; intronless	This study
MOY366		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 rip1:: kanMX4</i>	wt; intronless	This study
MOY120	MRSI ⁰ ΔCOB	W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3</i>	cob::ARG8 ^m	Gruschke et al., 2011
MOY143		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cbp3:: kanMX4</i>	cob::ARG8 ^m	Gruschke et al., 2011
MOY177		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cbp4:: kanMX4</i>	cob::ARG8 ^m	Gruschke et al., 2011
MOY192		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cbp6:: kanMX4</i>	cob::ARG8 ^m	Gruschke et al., 2011
MOY532		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 bca1:: kanMX4</i>	cob::ARG8 ^m	This study
MOY477		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 bcs1:: kanMX4</i>	cob::ARG8 ^m	This study
MOY624		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 mzm1:: kanMX4</i>	cob::ARG8 ^m	This study
MOY249		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr7:: kanMX4</i>	cob::ARG8 ^m	This study
MOY472		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr8:: kanMX4</i>	cob::ARG8 ^m	This study
MOY475		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cor1:: kanMX4</i>	cob::ARG8 ^m	This study
MOY364		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cor2:: kanMX4</i>	cob::ARG8 ^m	This study
MOY476		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cyt1:: kanMX4</i>	cob::ARG8 ^m	This study
MOY471		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr6:: kanMX4</i>	cob::ARG8 ^m	This study
MOY473		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr9:: kanMX4</i>	cob::ARG8 ^m	This study
MOY474		W303	<i>Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr10:: kanMX4</i>	cob::ARG8 ^m	This study

Table S1. Strains used in this study (Continued)

Name	Alias	Parental strain	Nuclear genotype	Mitochondrial genotype	References
MOY367		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 rip1:: kanMX4	cob::ARG8 ^m	This study
MOY310	MT1	W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3	cox2::COB cob:: ARG8 ^m	This study
MOY311		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cbp3:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY363		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cbp4:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY312		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cbp6:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY503		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 bca1:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY484		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 bcs1:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY625		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 mzm1:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY337		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr7:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY479		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr8:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY482		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cor1:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY351		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cor2:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY483		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 cyt1:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY478		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr6:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY480		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr9:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY481		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 qcr10:: kanMX4	cox2::COB cob:: ARG8 ^m	This study
MOY368		W303	Mat α ade2-1 his3-11,15 trp1-1 leu2-3,112 ura3-1 CAN1 arg8::HIS3 rip1:: kanMX4	cox2::COB cob:: ARG8 ^m	This study