

- 1 **Supplementary Table S1.** Number of cells of DAPI-stained AuTMAT-resistant mutants
- 2 exhibiting mitochondrial DNA-negative (type A) and positive (type B) fluorescence^a.

Locus/strain	Deleted gene	Type	Type	Frequency of
		A	B	Type B
BY4742		3	24	.89
KK86 (<i>rho</i> ^o)		17	0	0
YBR268w	<i>MRPL37</i>	8	4	.33
YCR046c	<i>IMG1</i>	8	8	.50
YER114c	<i>BOI2</i>	12	4	.25
YGL166w	<i>CUP2</i>	0	20	1.00
YGR150c	<i>CCM1</i> *	11	4	.27
YGR207c	<i>CIR1</i>	3	11	.79
YHR006w	<i>STP2</i>	3	13	.81
YJL129c	<i>TRK1</i>	3	11	.79
YLR382c	<i>NAM2</i>	8	6	.43
YLR439w	<i>MRPL4</i>	9	7	.44
YMR072w	<u><i>ABF2</i></u>	7	7	.50
YMR155w		5	13	.72
YMR173w	<i>DDR48</i>	5	13	.72
YMR192w	<i>GYL1</i>	5	10	.67
YMR223w	<i>UBP8</i>	3	13	.81
YPL183w-A	<i>RTC6</i> *	1	11	.92
YPR100w	<i>MRPL51</i>	11	7	.39

3 ^a Type A: single spot of prominent fluorescence; type B: single spot of prominent
4 fluorescence with weaker spots of fluorescence. Gene names in bold are those that
5 encode products involved in mitochondrial protein synthesis. Asterisk indicates gene
6 may play role in mitochondrial protein synthesis. Underlined gene name indicates role in
7 mitochondrial genome replication and recombination. A total of 12-27 cells per strain
8 were scored.