

Supplementary Table 1. Mitochondrial mutations in *A. thaliana*

Col-0 position	Col-0	C24	Type of mutation
32731	T	C	transition
61788	C	T	transition
99416	G	A	transition
136702	T	C	transition
216873	A	G	transition
221694	G	A	transition
227960	G	A	transition
267167	C	T	transition
306242	A	G	transition
306609	A	G	transition
306736	A	G	transition
306815	G	A	transition
318020	G	A	transition
330185	C	T	transition
333801	C	T	transition
359929	A	G	transition
361127	G	A	transition
8789	T	G	transversion
14681	A	C	transversion
18930	A	C	transversion
19275	T	G	transversion
29488	A	T	transversion
34234	G	T	transversion
58355	A	C	transversion
59712	G	T	transversion
62748	G	T	transversion
81609	G	T	transversion
84529	A	C	transversion
108847	A	C	transversion
110357	C	A	transversion
112905	A	C	transversion
116312	G	T	transversion
119374	G	T	transversion
122419	A	C	transversion
135125	G	C	transversion
167272	A	C	transversion
176844	T	G	transversion
178737	T	G	transversion
221625	C	A	transversion
230278	C	A	transversion

243601	C	A	transversion
253524	T	G	transversion
255633	C	A	transversion
264526	G	T	transversion
268609	T	G	transversion
290303	T	G	transversion
297203	T	G	transversion
298438	G	C	transversion
305593	G	T	transversion
306219	C	A	transversion
306268	G	C	transversion
306284	A	C	transversion
306673	T	A	transversion
306677	C	A	transversion
306679	T	A	transversion
306730	A	C	transversion
306731	C	G	transversion
306737	A	T	transversion
306764	A	C	transversion
311432	G	C	transversion
322252	G	T	transversion
324473	G	T	transversion
325614	G	C	transversion
332157	T	G	transversion
28012	CAAAAG	C-AAAG	indel
32256	A-GGT	AGGGT	indel
33170	AGGGT	A-GGT	indel
40274	T-CCCG	TCCCCG	indel
54300	G-TTTTTA	GTTTTTTA	indel
54725	ACCCT	A-CCT	indel
73640	TGGGGA	T-GGGA	indel
84063	GCCT	G-CT	indel
131824	C-AAAT	CAAAT	indel
133196	G-AAG	GAAAG	indel
135403	T-AAAAAAT	TAAAAAAT	indel
146160	CTTC	C-TC	indel
156811	AGGGC	A-GGC	indel
163337	G-AG	GAAG	indel
173489	CGGGGGA	C-GGGGA	indel
226311	GCCCCG	G-CCCG	indel
232507	ACCG	A-CG	indel
234090	CGGGT	C-GGT	indel
236303	CAAAT	C-AAT	indel

254308	G-AAAAAG	GAAAAAAG	indel
254607	GTTC	G-TC	indel
255040	GTTTTTC	G-TTTC	indel
282377	G-AAAG	GAAAG	indel
282384	G-AAAT	GAAAAT	indel
289160	GTTG	G-TG	indel
289163	GCCG	G-CG	indel
300485	AGGT	A-GT	indel
311617	C-TTTTC	CTTTTTTC	indel
320942	A-GGGGC	AGGGGGC	indel
321308	G-CCCCCA	GCCCCCA	indel
339886	T-CCCCCA	TCCCCCA	indel
340231	A-GGA	AGGGA	indel
343346	C-GGC	CGGGC	indel
349465	AGGC	A-GC	indel
358738	G-CCT	GCCCT	indel
139296	AT	TA	inversion (2bp)
203697	GA	TC	inversion (2bp)
360174	AA	TT	inversion (2bp)
292314	TTTC	GAAA	inversion (4bp)

Supplementary Table 2. Complete chloroplast and mitochondrial genomes used to identify highly conserved regions in *A. thaliana*.

A. Chloroplast genomes

Description	Accession
Arabidopsis thaliana chloroplast, complete genome	NC_000932.1
Bambusa oldhamii chloroplast, complete genome	NC_012927.1
Boea hygrometrica chloroplast, complete genome	JN107811.1
Cucumis melo subsp. melo chloroplast, complete genome	JF412791.1
Cucumis sativus chloroplast complete genome	AJ970307.1
Cycas taitungensis chloroplast, complete genome	NC_009618.1
Daucus carota chloroplast, complete genome	NC_008325.1
Ferocalamus rimosivaginus plastid, complete genome	NC_015831.1
Fragaria vesca subsp. vesca chloroplast, complete genome	NC_015206.1
Lotus japonicus chloroplast, complete genome	NC_002694.1
Medicago truncatula chloroplast, complete genome	NC_003119.6
Millettia pinnata chloroplast, complete genome	NC_016708.2
Nicotiana tabacum plastid, complete genome	NC_001879.2
Oryza rufipogon chloroplast, complete genome	NC_017835.1
Oryza sativa Japonica Group plastid, complete genome	NC_001320.1
Phoenix dactylifera chloroplast, complete genome	NC_013991.2
Ricinus communis chloroplast, complete genome	NC_016736.1
Silene latifolia chloroplast, complete genome	NC_016730.1
Silene vulgaris chloroplast, complete genome	NC_016727.1
Solanum lycopersicum chloroplast, complete genome	NC_007898.2
Sorghum bicolor chloroplast, complete genome	NC_008602.1
Spirodela polyrhiza chloroplast, complete genome	NC_015891.1
Triticum aestivum chloroplast, complete genome	NC_002762.1
Vigna radiata chloroplast, complete genome	NC_013843.1
Vitis vinifera chloroplast, complete genome	NC_007957.1
Zea mays chloroplast, complete genome	NC_001666.2

B. Mitochondrial genomes

Description	Accession
Bambusa oldhamii mitochondrion, complete genome	EU365401.1
Beta macrocarpa mitochondrion, complete genome	FQ378026.1
Beta vulgaris subsp. vulgaris mitochondrial DNA, complete genome	BA000024.1
Boea hygrometrica mitochondrion, complete genome	JN107812.1
Citrullus lanatus mitochondrion, complete genome	GQ856147.1
Cucumis melo subsp. melo mitochondrial sequence	JF412792.1
Cucumis sativus cultivar Calypso chromosome 1, complete sequence	HQ860792.1
Cucurbita pepo mitochondrion, complete genome	GQ856148.1

Cycas taitungensis mitochondrion, complete genome	NC_010303.1
Daucus carota subsp. sativus mitochondrion, complete genome	JQ248574.1
Ferocalamus rimosivaginus fragment s168 mitochondrion, partial genome	JQ235166.1
Ferocalamus rimosivaginus mitochondrion, partial genome	JN120789.1
Fragaria vesca subsp. americana clone fosmid 11D02, complete sequence	EU024828.1
Fragaria vesca subsp. americana isolate mt67326 mitochondrial sequence	GU363534.1
Lotus japonicus strain MG-20 mitochondrion, complete genome	JN872551.2
Malus x domestica mitochondrial complete genome, cultivar Golden delicious	FR714868.1
Medicago truncatula clone mth2-5h18, complete sequence	AC144406.17
Medicago truncatula clone mth2-7h6, complete sequence	AC145156.61
Millettia pinnata mitochondrion, complete genome	JN872550.1
Mimulus guttatus mitochondrion, complete genome	JN098455.1
Nicotiana tabacum mitochondrial DNA, complete genome	BA000042.1
Oryza rufipogon mitochondrial DNA, complete genome	AP011076.1
Oryza sativa Japonica Group mitochondrial DNA, complete genome	BA000029.3
Phoenix dactylifera mitochondrion, complete genome	JN375330.1
Ricinus communis mitochondrion, complete genome	HQ874649.1
Silene latifolia mitochondrion, complete genome	HM562727.1
Silene vulgaris chromosome 1 mitochondrion, complete sequence	JF750427.1
Silene vulgaris chromosome 3 mitochondrion, complete sequence	JF750430.1
Sorghum bicolor mitochondrion, complete genome	DQ984518.1
Spirodela polyrhiza strain 7498 mitochondrion, complete genome	JQ804980.1
Tripsacum dactyloides cultivar Pete mitochondrion, complete genome	DQ984517.1
Triticum aestivum mitochondrion, complete genome	GU985444.1
Vigna radiata mitochondrion, complete genome	HM367685.1
Vitis vinifera complete mitochondrial genome, cultivar Pinot noir	FM179380.1
Zea luxurians mitochondrion, complete genome	DQ645537.1
Zea mays strain NB mitochondrion, complete genome	AY506529.1
Zea perennis mitochondrion, complete genome	DQ645538.1

Supplementary Figure 1. Sequence constructed by deletion of highly conserved regions of the Col-0 mitochondrial genome.

>JF729201_without\genes\and\conserved\blocks

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a c a g c t t a a a a g a c c g c c a g g a g c t c t a g t t g g a a a g g a c t t g c t t a t t t g c t c t c t a a t t t g g a a a g a
c g a a a c a g t t t t a t a t t g a a t a a t c a a a a t t g t t t g g g c c g a g t t a a g t a a a g a c t g g c t t a c t t a a c
t c t a c c t a t a a a g a t c t c t c a c t g c a c a c t t t c t a t a g a t c c g a g a c t a a g g c c a t a t c t c c t a g g a c t a
t t c g c c c t a t g c c a a c t t t c c a c c c t t t t t t t a a g a g g g t t g g c t t t c g c c c a a g t a g g g t g c t t g g c a
t t t t c t c c g g t g t t c t g g t c t t g g g g t t c c c c t c c c t t g t c g c c t t t t a t t t t t t a c t g t c t t t g g a c
t a g a t a g a g a a c t c g c g g a g t g g g g t t c c t a t t a g c t t c g c a g c t t t t a g g a t a c t c c g c g t t t c a t t
c t g t c t a g g a a g a g a g a a t c c c c t g t a g c t c t a c g a g g g g a a t t c t a c c t c t c a t t t t g c t t t g t c t c
a t g t t a t a t g g a c t a a g g t t a t a c g c t t t t c a g g a g a t c t c t t t c t t a g a c c c t g g c a a c t a g c c g c t a
t a t t c t c g g g a t c g t g c g t t c t t t t a t t t c c c t g g a g a a a c g c a c g c t a a c a g g a t a t a t g t g a c c t t
t a c t t t a t t c g g t t c t c g c c t t t t t g t a t c c g t t t g g c t c t c g t c c g c g g c g g g c a a a g c g g g a a t a
c c g a t c g a a g g g a t g g t c t t c c t t t a t t t c t g a t c g g t g g g a t t g t t t t a t a t g t c t t a c a a a a g a
t a t t t c a a c t c a c t c c c a a t a c a g t a c a g g c c c t g a t t c c t a t c c t c t t c a g t g c a c t c t t c t t c t t t t
a g a a g a a c t t c c t g c g t g g a g g g t c t a c c t c t c t t g a a a t g g c t a a a a g g t c t a g a c t t g c t t t a c t a
c t t g t g g g t c t c c t g c t c t t a a t t t t t a a t g a g a a t c g a c a g g g a g g a g a t g g c g a a g g g t c a t a a t a g a
a t t a a g a g t t t c g a t g c c g a t t g a g c t g a g c c c g a a t a a a a t g a c a g t g g g c t c c c a g a t t a c t t a g c a c
a c t a a a c c a c a a g a g t g c t c c a g g a a c t g g g c a a a a a g a c c t a g a a c t a c g g a c g t g t c t g a t g c t t t c t
t c c t t g t c c t t g a a a a g a g g a a g a t t g c t a c g t a g g c t g t g t g g a g a a a c g t a t c a g c a a c t c g a c
g a a a a a t g g t a a a a a g g g g a a a g g a c a g t a t t c g a t g g a t c a g c c a a c c a t g a a a a c t t t c c t t c t c c g
c a a g c t c t c a t c t a c c t t t c t g a a t a g g g c a t c t c g a c t a g t c t t g g a a c c g g c t t c t c t t a t g a t a t a g
a t g g t t g a g a g a t a c g a g a c t a t g a t g a a c c g g a a t a a a g a t a a t g c g a t c g g a c a a a t a a t a c a g g c c
a a g a a c c a c a c c c c a a a g t c a g g c c c t g c g a g g t a a g g g c t c c a g a g g a a g a g a g g g a a g a t c g g a a t t
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