

Table S1. Plastid C-to-U editing sites detected in this study

Species	Editing type	CDS	CDS position	Codon position	Editing efficiency
<i>Agathis dammara</i>	Silent	<i>atpB</i>	1,413	3	39.10%
<i>Agathis dammara</i>	Non-silent	<i>atpF</i>	23	2	83.80%
<i>Agathis dammara</i>	Non-silent	<i>atpI</i>	617	2	95.80%
<i>Agathis dammara</i>	Non-silent	<i>atpI</i>	431	2	98.50%
<i>Agathis dammara</i>	Non-silent	<i>ccsA</i>	404	2	93.10%
<i>Agathis dammara</i>	Antisense	<i>matK</i>	1,534	-	21.20%
<i>Agathis dammara</i>	Non-silent	<i>matK</i>	895	1	75.80%
<i>Agathis dammara</i>	Non-silent	<i>ndhA</i>	47	2	78.30%
<i>Agathis dammara</i>	Non-silent	<i>ndhA</i>	482	2	85.00%
<i>Agathis dammara</i>	Non-silent	<i>ndhB</i>	776	2	92.30%
<i>Agathis dammara</i>	Non-silent	<i>ndhB</i>	1,385	2	94.20%
<i>Agathis dammara</i>	Non-silent	<i>ndhD</i>	272	2	68.80%
<i>Agathis dammara</i>	Non-silent	<i>ndhE</i>	142	1	93.30%
<i>Agathis dammara</i>	Silent	<i>ndhE</i>	180	3	97.00%
<i>Agathis dammara</i>	Non-silent	<i>ndhE</i>	197	2	89.40%
<i>Agathis dammara</i>	Non-silent	<i>ndhF</i>	1,802	2	85.50%
<i>Agathis dammara</i>	Non-silent	<i>ndhF</i>	1,841	2	88.00%
<i>Agathis dammara</i>	Non-silent	<i>ndhF</i>	2,039	2	93.30%
<i>Agathis dammara</i>	Antisense	<i>ndhF</i>	2,026	-	21.90%
<i>Agathis dammara</i>	Non-silent	<i>ndhH</i>	1,094	2	74.60%
<i>Agathis dammara</i>	Non-silent	<i>psbH</i>	173	2	98.30%
<i>Agathis dammara</i>	Non-silent	<i>psbM</i>	47	2	94.70%
<i>Agathis dammara</i>	Non-silent	<i>psbN</i>	37	1	87.20%
<i>Agathis dammara</i>	Non-silent	<i>rpl20</i>	269	2	79.10%
<i>Agathis dammara</i>	Non-silent	<i>rpoB</i>	2,912	2	63.70%
<i>Agathis dammara</i>	Non-silent	<i>rpoB</i>	2,495	2	45.00%
<i>Agathis dammara</i>	Non-silent	<i>rpoB</i>	473	2	35.80%
<i>Agathis dammara</i>	Non-silent	<i>rpoC1</i>	1,061	2	82.40%
<i>Agathis dammara</i>	Non-silent	<i>rpoC1</i>	470	2	74.30%
<i>Agathis dammara</i>	Non-silent	<i>rpoC1</i>	419	2	63.00%
<i>Agathis dammara</i>	Silent	<i>rpoC1</i>	168	3	46.30%
<i>Agathis dammara</i>	Non-silent	<i>rpoC1</i>	164	2	84.60%
<i>Agathis dammara</i>	Non-silent	<i>rpoC2</i>	2,909	2	78.60%
<i>Agathis dammara</i>	Non-silent	<i>rpoC2</i>	155	2	69.90%
<i>Agathis dammara</i>	Non-silent	<i>rps14</i>	149	2	91.60%
<i>Agathis dammara</i>	Silent	<i>rps8</i>	240	3	37.80%

<i>Agathis dammara</i>	Non-silent	<i>rps8</i>	203	2	70.60%
<i>Agathis dammara</i>	Non-silent	<i>rps8</i>	161	2	79.70%
<i>Agathis dammara</i>	Non-silent	<i>rps8</i>	155	2	76.70%
<i>Agathis dammara</i>	Non-silent	<i>rps8</i>	145	1	69.70%
<i>Agathis dammara</i>	Non-silent	<i>ycf1</i>	6,290	2	53.00%
<i>Agathis dammara</i>	Non-silent	<i>ycf2</i>	4,838	2	88.00%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>atpA</i>	773	2	95.90%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>atpI</i>	614	2	93.30%
<i>Cephalotaxus wilsoniana</i>	Antisense	<i>chlB</i>	18	-	12.20%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>chlN</i>	850	1	94.40%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>matK</i>	892	1	69.30%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>matK</i>	1,358	2	53.40%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>ndhB</i>	28	1	60.10%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>ndhB</i>	776	2	83.30%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>ndhD</i>	1,193	2	94.80%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>ndhE</i>	293	2	95.40%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>ndhF</i>	704	2	84.60%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>ndhF</i>	1,808	2	86.80%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>ndhF</i>	1,847	2	86.80%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>petG</i>	44	2	50.50%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>petL</i>	74	2	80.40%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>psaA</i>	725	2	97.80%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>psaC</i>	146	2	98.20%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>psbH</i>	173	2	98.30%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>psbM</i>	47	2	72.20%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>psbN</i>	37	1	79.20%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rpoB</i>	920	2	67.10%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rpoB</i>	884	2	67.80%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rpoB</i>	839	2	52.10%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rpoB</i>	473	2	35.00%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rpoC1</i>	479	2	83.30%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rpoC2</i>	2,867	2	80.40%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rpoC2</i>	2,615	2	78.60%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rpoC2</i>	176	2	40.80%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rps8</i>	172	1	51.30%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rps8</i>	188	2	59.10%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>rps8</i>	230	2	92.00%
<i>Cephalotaxus wilsoniana</i>	Non-silent	<i>ycf3</i>	191	2	76.80%

<i>Cunninghamia konishii</i>	Non-silent	<i>atpA</i>	773	2	94.90%
<i>Cunninghamia konishii</i>	Antisense	<i>atpA</i>	184	-	11.80%
<i>Cunninghamia konishii</i>	Antisense	<i>chlB</i>	18	-	11.80%
<i>Cunninghamia konishii</i>	Non-silent	<i>ndhB</i>	776	2	90.90%
<i>Cunninghamia konishii</i>	Non-silent	<i>ndhB</i>	1,127	2	81.50%
<i>Cunninghamia konishii</i>	Non-silent	<i>ndhE</i>	293	2	97.40%
<i>Cunninghamia konishii</i>	Non-silent	<i>ndhF</i>	25	1	95.00%
<i>Cunninghamia konishii</i>	Non-silent	<i>ndhH</i>	1,094	2	59.10%
<i>Cunninghamia konishii</i>	Silent	<i>petN</i>	12	3	22.20%
<i>Cunninghamia konishii</i>	Non-silent	<i>psbZ</i>	149	2	46.20%
<i>Cunninghamia konishii</i>	Silent	<i>rpoB</i>	390	3	12.00%
<i>Cunninghamia konishii</i>	Non-silent	<i>rpoB</i>	917	2	51.70%
<i>Cunninghamia konishii</i>	Non-silent	<i>rpoB</i>	962	2	76.00%
<i>Cunninghamia konishii</i>	Non-silent	<i>rpoB</i>	1,486	1	51.20%
<i>Cunninghamia konishii</i>	Non-silent	<i>rpoC1</i>	584	2	41.00%
<i>Cunninghamia konishii</i>	Non-silent	<i>rpoC2</i>	2,351	2	75.10%
<i>Cunninghamia konishii</i>	Non-silent	<i>rps14</i>	149	2	76.70%
<i>Cunninghamia konishii</i>	Non-silent	<i>rps8</i>	188	2	49.40%
<i>Cunninghamia konishii</i>	Non-silent	<i>rps8</i>	230	2	87.00%
<i>Cunninghamia konishii</i>	Silent	<i>ycf1</i>	6,850	1	35.90%
<i>Cunninghamia konishii</i>	Non-silent	<i>ycf3</i>	191	2	61.50%
<i>Keteleeria davidiana</i>	Non-silent	<i>accD</i>	935	2	81.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpA</i>	554	2	94.70%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpA</i>	773	2	88.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpA</i>	1,004	2	95.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpB</i>	1,049	2	76.00%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpB</i>	1,217	2	97.90%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpF</i>	65	2	71.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpF</i>	101	2	59.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpF</i>	370	1	56.30%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpI</i>	152	2	92.70%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpI</i>	428	2	77.20%
<i>Keteleeria davidiana</i>	Non-silent	<i>atpI</i>	614	2	90.70%
<i>Keteleeria davidiana</i>	Non-silent	<i>ccsA</i>	716	2	74.70%
<i>Keteleeria davidiana</i>	Non-silent	<i>ccsA</i>	704	2	81.30%
<i>Keteleeria davidiana</i>	Non-silent	<i>ccsA</i>	407	2	79.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>cemA</i>	701	2	80.70%
<i>Keteleeria davidiana</i>	Non-silent	<i>cemA</i>	116	2	14.70%

<i>Keteleeria davidiana</i>	Non-silent	<i>chlB</i>	1,280	2	22.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>chlB</i>	646	1	46.00%
<i>Keteleeria davidiana</i>	Non-silent	<i>chlB</i>	13	1	29.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>chlN</i>	856	1	15.10%
<i>Keteleeria davidiana</i>	Silent	<i>chlN</i>	1,005	3	28.10%
<i>Keteleeria davidiana</i>	Non-silent	<i>clpP</i>	194	2	87.70%
<i>Keteleeria davidiana</i>	Non-silent	<i>matK</i>	1,466	2	19.10%
<i>Keteleeria davidiana</i>	Non-silent	<i>matK</i>	892	1	34.30%
<i>Keteleeria davidiana</i>	Non-silent	<i>matK</i>	527	2	72.10%
<i>Keteleeria davidiana</i>	Non-silent	<i>petB</i>	155	2	93.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>petB</i>	599	2	59.90%
<i>Keteleeria davidiana</i>	Non-silent	<i>petB</i>	634	1	64.90%
<i>Keteleeria davidiana</i>	Non-silent	<i>petG</i>	80	2	74.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>petG</i>	17	2	89.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>petL</i>	74	2	92.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>psaI</i>	79	1	83.90%
<i>Keteleeria davidiana</i>	Non-silent	<i>psbB</i>	1,391	2	98.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>psbC</i>	1,211	2	99.10%
<i>Keteleeria davidiana</i>	Non-silent	<i>psbC</i>	524	2	88.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>psbD</i>	935	2	98.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>psbD</i>	839	2	98.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>psbD</i>	398	2	98.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>psbE</i>	214	1	85.80%
<i>Keteleeria davidiana</i>	Silent	<i>psbK</i>	93	3	34.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>psbK</i>	92	2	95.50%
<i>Keteleeria davidiana</i>	Non-silent	<i>psbZ</i>	149	2	95.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>psbZ</i>	20	2	47.90%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpl2</i>	515	2	42.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpl2</i>	203	2	75.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpl23</i>	61	1	42.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpl32</i>	58	1	93.70%
<i>Keteleeria davidiana</i>	Silent	<i>rpoA</i>	100	1	44.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoB</i>	397	1	21.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoB</i>	545	2	50.90%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoB</i>	815	2	28.50%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoB</i>	1,841	2	62.90%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoB</i>	2,444	2	46.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoB</i>	2,722	1	23.10%

<i>Keteleeria davidiana</i>	Non-silent	<i>rpoB</i>	2,861	2	51.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoC1</i>	164	2	32.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoC1</i>	479	2	66.90%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoC1</i>	875	2	22.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoC1</i>	1,487	2	41.20%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoC2</i>	937	1	21.10%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoC2</i>	2,729	2	45.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoC2</i>	2,981	2	63.60%
<i>Keteleeria davidiana</i>	Non-silent	<i>rpoC2</i>	3,254	2	64.60%
<i>Keteleeria davidiana</i>	Antisense	<i>rpoC2</i>	1,968	-	41.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>rps14</i>	146	2	49.70%
<i>Keteleeria davidiana</i>	Silent	<i>rps2</i>	222	3	27.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>rps2</i>	344	2	54.70%
<i>Keteleeria davidiana</i>	Non-silent	<i>rps2</i>	662	2	57.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>rps4</i>	272	2	50.80%
<i>Keteleeria davidiana</i>	Non-silent	<i>rps8</i>	254	2	45.00%
<i>Keteleeria davidiana</i>	Non-silent	<i>rps8</i>	188	2	40.40%
<i>Keteleeria davidiana</i>	Non-silent	<i>rps8</i>	182	2	37.00%
<i>Keteleeria davidiana</i>	Silent	<i>ycf1</i>	4,131	3	29.60%
<i>Keteleeria davidiana</i>	Antisense	<i>ycf2</i>	3,107	-	44.90%
<i>Keteleeria davidiana</i>	Non-silent	<i>ycf2</i>	5,003	2	25.90%
<i>Keteleeria davidiana</i>	Non-silent	<i>ycf2</i>	4,723	1	58.20%
<i>Keteleeria davidiana</i>	Non-silent	<i>ycf2</i>	569	2	14.70%
<i>Nageia nagi</i>	Non-silent	<i>atpA</i>	773	2	99.80%
<i>Nageia nagi</i>	Antisense	<i>atpI</i>	403	-	15.10%
<i>Nageia nagi</i>	Antisense	<i>atpI</i>	31	-	24.60%
<i>Nageia nagi</i>	Non-silent	<i>atpI</i>	617	2	99.50%
<i>Nageia nagi</i>	Non-silent	<i>ndhD</i>	1,193	2	98.10%
<i>Nageia nagi</i>	Non-silent	<i>ndhF</i>	25	1	57.50%
<i>Nageia nagi</i>	Non-silent	<i>ndhH</i>	1,088	2	91.70%
<i>Nageia nagi</i>	Antisense	<i>ndhI</i>	48	-	13.90%
<i>Nageia nagi</i>	Non-silent	<i>rpoA</i>	299	2	90.30%
<i>Nageia nagi</i>	Non-silent	<i>rpoB</i>	2,894	2	46.80%
<i>Nageia nagi</i>	Non-silent	<i>rpoB</i>	470	2	38.00%
<i>Nageia nagi</i>	Non-silent	<i>rpoC1</i>	1,085	2	34.10%
<i>Nageia nagi</i>	Non-silent	<i>rpoC2</i>	2,822	2	88.30%
<i>Nageia nagi</i>	Non-silent	<i>rps14</i>	149	2	99.20%
<i>Nageia nagi</i>	Non-silent	<i>rps8</i>	172	1	74.10%

<i>Nageia nagi</i>	Non-silent	<i>rps8</i>	182	2	84.40%
<i>Nageia nagi</i>	Non-silent	<i>rps8</i>	188	2	83.40%
<i>Nageia nagi</i>	Silent	<i>rps8</i>	267	3	41.40%
<i>Nageia nagi</i>	Non-silent	<i>rps8</i>	274	1	33.00%
<i>Nageia nagi</i>	Non-silent	<i>rps8</i>	284	2	25.80%
<i>Nageia nagi</i>	Non-silent	<i>ycf1</i>	455	2	29.70%
<i>Nageia nagi</i>	Non-silent	<i>ycf2</i>	4,733	2	97.10%
<i>Nageia nagi</i>	Non-silent	<i>ycf3</i>	191	2	62.00%
<i>Sciadopitys verticillata</i>	Non-silent	<i>ccsA</i>	407	2	81.90%
<i>Sciadopitys verticillata</i>	Non-silent	<i>chlB</i>	13	1	48.60%
<i>Sciadopitys verticillata</i>	Non-silent	<i>chlN</i>	850	1	83.50%
<i>Sciadopitys verticillata</i>	Non-silent	<i>matK</i>	892	1	79.80%
<i>Sciadopitys verticillata</i>	Non-silent	<i>ndhA</i>	23	2	80.60%
<i>Sciadopitys verticillata</i>	Non-silent	<i>ndhA</i>	338	2	25.90%
<i>Sciadopitys verticillata</i>	Non-silent	<i>ndhA</i>	482	2	81.80%
<i>Sciadopitys verticillata</i>	Non-silent	<i>ndhD</i>	272	2	87.80%
<i>Sciadopitys verticillata</i>	Non-silent	<i>ndhD</i>	1,193	2	93.60%
<i>Sciadopitys verticillata</i>	Non-silent	<i>ndhE</i>	293	2	90.20%
<i>Sciadopitys verticillata</i>	Antisense	<i>ndhF</i>	2,026	-	15.60%
<i>Sciadopitys verticillata</i>	Non-silent	<i>ndhF</i>	2,039	2	90.90%
<i>Sciadopitys verticillata</i>	Non-silent	<i>ndhF</i>	1,802	2	86.20%
<i>Sciadopitys verticillata</i>	Non-silent	<i>ndhF</i>	25	1	64.30%
<i>Sciadopitys verticillata</i>	Silent	<i>ndhH</i>	1,158	3	46.80%
<i>Sciadopitys verticillata</i>	Non-silent	<i>petD</i>	134	2	98.80%
<i>Sciadopitys verticillata</i>	Non-silent	<i>psaA</i>	725	2	97.70%
<i>Sciadopitys verticillata</i>	Non-silent	<i>psaC</i>	146	2	98.70%
<i>Sciadopitys verticillata</i>	Silent	<i>psbA</i>	696	3	87.70%
<i>Sciadopitys verticillata</i>	Non-silent	<i>psbC</i>	523	1	75.60%
<i>Sciadopitys verticillata</i>	Non-silent	<i>psbC</i>	524	2	94.90%
<i>Sciadopitys verticillata</i>	Non-silent	<i>psbE</i>	214	1	96.40%
<i>Sciadopitys verticillata</i>	Non-silent	<i>psbK</i>	92	2	98.70%
<i>Sciadopitys verticillata</i>	Silent	<i>rbcl</i>	93	3	10.10%
<i>Sciadopitys verticillata</i>	Antisense	<i>rpl33</i>	135	-	12.40%
<i>Sciadopitys verticillata</i>	Non-silent	<i>rpoB</i>	887	2	74.00%
<i>Sciadopitys verticillata</i>	Non-silent	<i>rpoB</i>	923	2	69.20%
<i>Sciadopitys verticillata</i>	Non-silent	<i>rpoB</i>	3,044	2	68.90%
<i>Sciadopitys verticillata</i>	Silent	<i>rpoC2</i>	2,944	1	17.20%
<i>Sciadopitys verticillata</i>	Non-silent	<i>rpoC2</i>	2,624	2	86.60%

<i>Sciadopitys verticillata</i>	Non-silent	<i>rpoC2</i>	152	2	84.10%
<i>Sciadopitys verticillata</i>	Non-silent	<i>rps14</i>	149	2	94.40%
<i>Sciadopitys verticillata</i>	Non-silent	<i>rps8</i>	155	2	50.80%
<i>Sciadopitys verticillata</i>	Non-silent	<i>rps8</i>	161	2	57.50%
<i>Sciadopitys verticillata</i>	Silent	<i>rps8</i>	237	3	28.80%
