Supplementary Table 3. RNA editing data for *Citrullus* (Cit) and *Cucurbita* (Cuc) mitochondrial genes.

| Gene | CDS length | | Total edits | | Edits/100 nt[b] | | Shared edits | Nonsynonymous edits | | | | Synonymous edits | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Full | | Partial | | Full | | Partial | |
| | Cit | Cuc | Cit | Cuc | Cit | Cuc | | Cit | Cuc | Cit | Cuc | Cit | Cuc | Cit | Cuc |
| *atp1* | 1530[a] | 1530[a] | 7 | 3 | 0.53 | 0.23 | 3 | 5 | 3 | 0 | 0 | 0 | 0 | 2 | 0 |
| *atp4* | 597[a] | 576 | 13 | 12 | 2.37 | 2.08 | 12 | 11 | 10 | 1 | 1 | 0 | 1 | 1 | 0 |
| *atp6* | 774[a] | 780[a] | 20 | 20 | 2.84 | 3.00 | 19 | 19 | 18 | 1 | 2 | 0 | 0 | 0 | 0 |
| *atp8* | 480 | 483 | 3 | 3 | 0.62 | 0.62 | 3 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| *atp9* | 225 | 225 | 7 | 6 | 3.11 | 2.67 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 1 | 0 |
| Ψ*atp9* | 171 | *NA*[c] | 5 | *NA*[c] | 2.92 | *NA*[c] | *NA*[c] | 5 | *NA*[c] | 0 | *NA*[c] | 0 | *NA*[c] | 0 | *NA*[c] |
| *ccmB* | 621[a] | 621[a] | 34 | 33 | 6.30 | 5.76 | 30 | 32 | 30 | 0 | 0 | 2 | 2 | 0 | 1 |
| *ccmC* | 699[a] | 699[a] | 18 | 18 | 3.75 | 3.33 | 16 | 10 | 9 | 5 | 7 | 1 | 0 | 2 | 2 |
| *ccmFc* | 1317[a] | 1314[a] | 11 | 13 | 0.93 | 1.10 | 11 | 3 | 12 | 8 | 0 | 0 | 0 | 0 | 1 |
| *ccmFn* | 1734[a] | 1734[a] | 25 | 31 | 1.95 | 2.24 | 19 | 18 | 18 | 6 | 10 | 0 | 0 | 1 | 3 |
| *cob* | 1173 | 1173 | 13 | 13 | 1.11 | 1.11 | 13 | 4 | 8 | 9 | 5 | 0 | 0 | 0 | 0 |
| *cox1* | 1584[a] | 1584[a] | 18 | 18 | 1.16 | 1.22 | 16 | 17 | 17 | 1 | 1 | 0 | 0 | 0 | 0 |
| *cox2* | 783[a] | 783[a] | 10 | 12 | 1.45 | 1.71 | 10 | 10 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| *cox3* | 798 | 798 | 10 | 7 | 1.25 | 0.88 | 7 | 9 | 7 | 0 | 0 | 0 | 0 | 1 | 0 |
| *matR* | 2007[a] | 1935[a] | 4 | 4 | 0.22 | 0.30 | 3 | 0 | 3 | 3 | 0 | 1 | 1 | 0 | 0 |
| *mttB* | 849[a] | 816[a] | 21 | 27 | 3.11 | 3.70 | 18 | 3 | 18 | 15 | 5 | 0 | 1 | 3 | 3 |
| *nad1* | 978[a] | 978[a] | 21 | 21 | 2.37 | 2.21 | 18 | 20 | 20 | 0 | 0 | 0 | 0 | 1 | 1 |
| *nad2* | 1467[a] | 1467[a] | 26 | 26 | 1.88 | 1.87 | 24 | 23 | 23 | 0 | 0 | 1 | 2 | 2 | 1 |
| *nad3* | 357 | 357 | 14 | 10 | 3.92 | 2.80 | 10 | 9 | 8 | 4 | 2 | 0 | 0 | 1 | 0 |
| *nad4* | 1488[a] | 1488[a] | 43 | 33 | 2.99 | 2.41 | 33 | 38 | 30 | 0 | 0 | 2 | 2 | 3 | 1 |
| *nad4L* | 303 | 303 | 13 | 13 | 4.29 | 4.29 | 13 | 8 | 10 | 4 | 2 | 1 | 1 | 0 | 0 |
| *nad5* | 2001[a] | 1995[a] | 29 | 21 | 1.57 | 1.12 | 21 | 27 | 21 | 0 | 0 | 0 | 0 | 2 | 0 |
| *nad6*[d] | 618[a] | 618[a] | 0 | 0 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *nad7* | 1185[a] | 1185[a] | 30 | 29 | 2.69 | 2.61 | 28 | 27 | 26 | 0 | 0 | 2 | 3 | 1 | 0 |
| *nad9* | 573 | 573[a] | 8 | 8 | 1.40 | 1.42 | 8 | 8 | 1 | 0 | 7 | 0 | 0 | 0 | 0 |
| *rpl2* | 999[a] | 999[a] | 1 | 1 | 0.11 | 0.11 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

Supplementary Table 3. continued

| Gene | CDS length | | Total edits | | Edits/100 nt[b] | | Shared edits | Nonsynonymous edits | | | | Synonymous edits | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Full | | Partial | | Full | | Partial | |
| | Cit | Cuc | Cit | Cuc | Cit | Cuc | | Cit | Cuc | Cit | Cuc | Cit | Cuc | Cit | Cuc |
| *rpl5* | 558 | 558 | 9 | 8 | 1.61 | 1.43 | 8 | 5 | 7 | 4 | 1 | 0 | 0 | 0 | 0 |
| *rpl16* | 411[a] | 435 | 3 | 5 | 0.80 | 1.15 | 3 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 1 |
| *rps1* | 534 | 504 | 1 | 1 | 0.19 | 0.20 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *rps3* | 1692[a] | 1698[a] | 7 | 10 | 0.44 | 0.60 | 6 | 5 | 6 | 1 | 1 | 0 | 0 | 1 | 3 |
| *rps4* | 1068[a] | 1071[a] | 17 | 12 | 1.71 | 1.43 | 12 | 14 | 1 | 3 | 11 | 0 | 0 | 0 | 0 |
| *rps7* | 447 | 447 | 2 | 3 | 0.45 | 0.67 | 2 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 1 |
| *rps10* | 333 | 333 | 5 | 5 | 1.50 | 1.50 | 5 | 5 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| *rps12* | 372 | 378 | 6 | 6 | 1.61 | 1.59 | 6 | 0 | 1 | 6 | 5 | 0 | 0 | 0 | 0 |
| *rps13* | 351 | 351 | 3 | 3 | 0.85 | 0.85 | 3 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 |
| Ψ*rps14* | 307 | 308 | 0 | 0 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *rps19*[e] | 279 | 318[a], 330[a] | 3 | 4 | 1.08 | 1.32 | 3 | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 2 |
| *sdh3*[f] | 285 | 318 | 3 | 5 | 1.05 | 1.57 | 3 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 2 |

[a]incomplete cDNA sequence

[b]Observed edits/100 nt of cDNA sequence. A total of 29,488 nt and 28,938 nt of cDNA sequence was analyzed for *Citrullus* and *Cucurbita*, respectively.

[c]Not applicable (*NA*) because *Cucurbita* lacks Ψ*atp9*.

[d]Despite having 10 predicted editing sites, no evidence of editing was found in the *nad6* gene of either species. Although no sign of DNA contamination was found in negative control PCRs, it remains possible that *nad6* is nonetheless edited in both species.

[e]Both species have two copies of the *rps19* gene that are identical in length in *Citrullus* but not in *Cucurbita*. Editing data was gathered for the *rps19*-1 gene in *Citrullus*. For *Cucurbita*, it could not be determined whether the cDNA sequenced derived from one or both of the *rps19* genes, which are identical along the length of the cDNA sequence.

[f]*Citrullus* has two identical copies of the *sdh3* gene, so it could not be determined whether the cDNA sequenced derived from one or both of the *sdh3* genes.