|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| gene | Nucleotide position | codon change | Amino acid change | Score |
| *accD* | / | / | / | / |
| *atpA* | 791 | CCC-CTC | P-L | 1 |
| *atpB* | / | / | / | / |
| *atpF* | 157 | CCG-TCG | P-S | 1 |
| *atpI* | / | / | / | / |
| *ccsA* | / | / | / | / |
| *clpP* | 296 | ACT-ATT | T-I | 1 |
| 524 | GCC-GTC | A-V | 1 |
| *matK* | / | / | / | / |
| *ndhA* | 8 | ACA-ATA | T-I | 1 |
| 302 | ACA-ATA | T-I | 1 |
| 326 | GCA-GTA | A-V | 1 |
| 596 | CCT-CTT | P-L | 1 |
| 1,037 | CCC-CTC | P-L | 1 |
| *ndhB* | 149 | TCA-TTA | S-L | 1 |
| 467 | CCA-CTA | P-L | 1 |
| 586 | CAT-TAT | H-Y | 1 |
| 611 | TCA-TTA | S-L | 0.8 |
| 737 | CCA-CTA | P-L | 1 |
| 746 | TCT-TTT | S-F | 1 |
| 830 | TCA-TTA | S-L | 1 |
| 836 | TCA-TTA | S-L | 1 |
| 1,481 | CCA-CTA | P-L | 1 |
| *ndhD* | 2 | ACG-ATG | T-M | 1 |
| 383 | TCA-TTA | S-L | 1 |
| 674 | TCG-TTG | S-L | 1 |
| 878 | TCA-TTA | S-L | 1 |
| 1,298 | TCA-TTA | S-L | 0.8 |
| 1,310 | TCA-TTA | S-L | 0.8 |
| *ndhF* | 290 | TCA-TTA | S-L | 1 |
| *ndhG* | / | / | / | / |
| *petB* | 418 | CGG-TGG | R-W | 1 |
| 611 | CCA-CTA | P-L | 1 |
| *petD* | 368 | TCC-TTC | S-F | 1 |
| *petG* | / | / | / | / |
| *petL* | / | / | / | / |
| *psaB* | / | / | / | / |
| *psaI* | / | / | / | / |
| *psbB* | / | / | / | / |
| *psbE* | 214 | CCT-TCT | P-S | 1 |
| *psbF* | / | / | / | / |
| *psbL* | 2 | ACG-ATG | T-M | 1 |
| *rpl2* | 164 | ACT-ATT | T-I | 1 |
| 206 | ACC-ATC | T-I | 1 |
| *rpl20* | 308 | TCA-TTA | S-L | 0.86 |
| *rpl23* | / | / | / | / |
| *rpoA* | 830 | TCA-TTA | S-L | 1 |
| *rpoB* | 338 | TCT-TTT | S-F | 1 |
| 473 | TCA-TTA | S-L | 0.86 |
| 551 | TCA-TTA | S-L | 1 |
| 2,000 | TCT-TTT | S-F | 1 |
| 2,426 | TCA-TTA | S-L | 0.86 |
| *rpoC1* | 407 | TCA-TTA | S-L | 0.86 |
| 485 | CCC-CTC | P-L | 0.86 |
| 973 | CCG-TCG | P-S | 1 |
| 1,019 | GCA-GTA | A-V | 0.86 |
| 1,250 | GCA-GTA | A-V | 0.86 |
| 1,414 | CTT-TTT | L-F | 1 |
| 1,847 | TCG-TTG | S-L | 1 |
| *rpoC2* | 2,287 | CGG-TGG | R-W | 1 |
| 3,731 | TCA-TTA | S-L | 0.86 |
| *rps12* | 248 | TCA-TTA | S-L | 1 |
| *rps8* | / | / | / | / |
| *rps14* | 80 | TCA-TTA | S-L | 1 |
| *rps16* | / | / | / | / |
| *ycf3* | / | / | / | / |