

LEGENDS FOR SUPPLEMENTAL FIGURES

Supplemental fig. 1. Control experiment for microarray analysis. aRNA probes were synthesized from the same sample and were labeled with Cy3 and Cy5. Probes were competitively hybridized with the same DNA microarray. Horizontal axis and vertical axis show intensity of each spot due to Cy3 and Cy5, respectively. Diagonal line indicates no difference in signal intensity between the two samples. Dashed lines indicate a 2-times difference in signal intensities. Signals were normalized against internal control spots (see materials and methods).

Supplemental fig. 2. Cells of *C. merolae* 10D were cultured in MA2 medium in a jar fermenter with light-dark-dependent synchronization as described previously (4) with minor modifications. Cells were cultured at 42°C and were aerated with 2% CO₂ in air. Cultures were subjected to the following light conditions; 6 h light, 18 h dark, and continuous light. Synchronization of the culture was initiated at end of first dark period (time 0). For DNA microarray analyses, cells were sampled during the period from 0 to 48 h (time 0 to 48), during which cell cycle phases were highly synchronous. Values are means of three independent experiments ± SD.

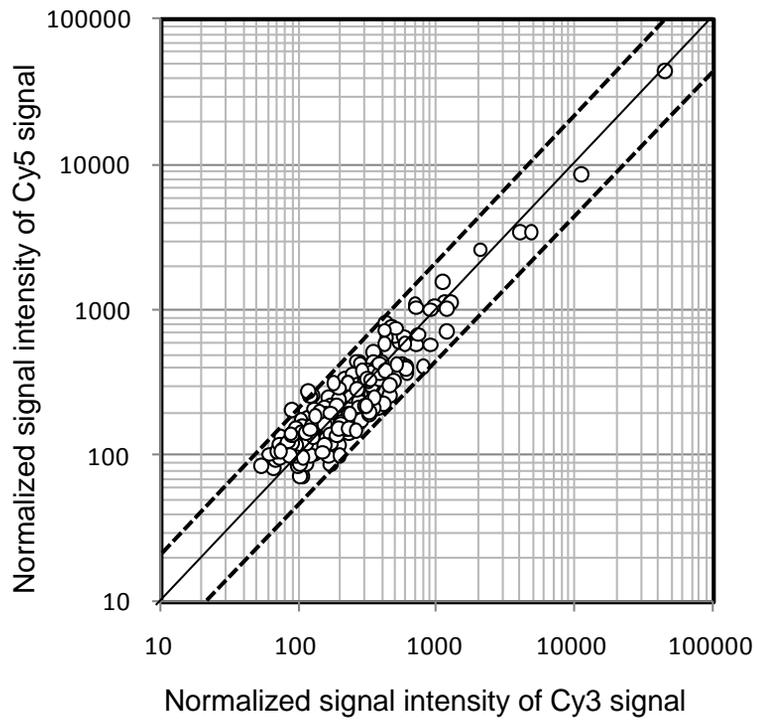
Supplemental fig. 3. Correlation network of organelle genes. Network chart was produced by relative network function of MeV software (TIGR). Each ORF is shown as a gray oval. Interaction between two genes is shown by blue or red line, where blue or red line indicates a correlation coefficient greater than 0.7 or 0.8, respectively.

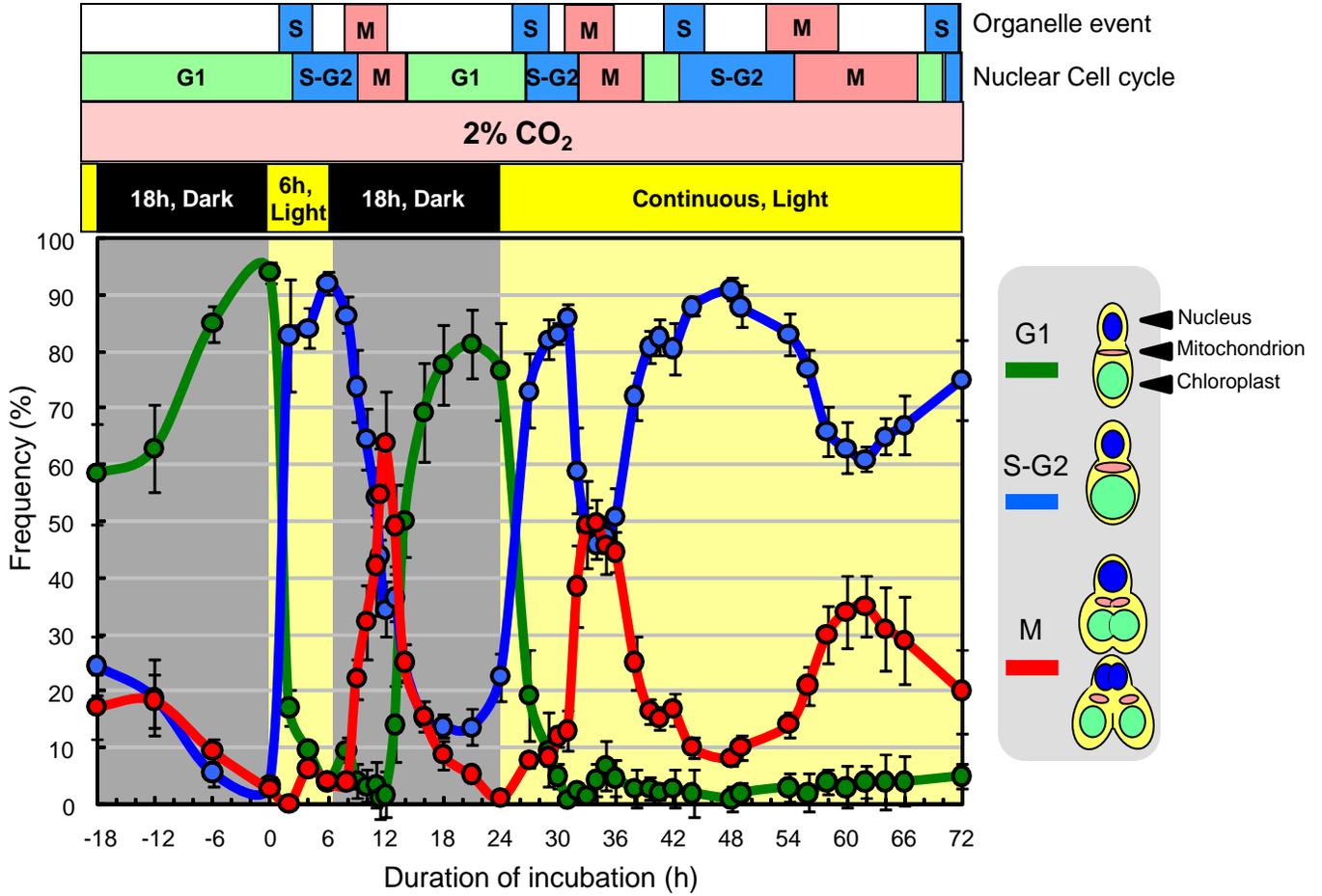
Supplemental fig. 4. Preparation and specificity of antibodies. (A–D) Aliquots of *C. merolae* total protein (Cm) were separated by 10% SDS-PAGE and analyzed by immunoblot analysis with indicated antibodies. (A, C, D) Re. indicates His-tagged CmSIGs, which harbors approximately 10 kDa extra peptide derived from the His-tag and expression vector linker sequence, expressed in *E. coli*. (B) Re. indicates recombinant CmSIG2, which harbors about 60 kDa extra peptide derived from the SecA-fragment. Positions of molecular size markers were indicated at the left.

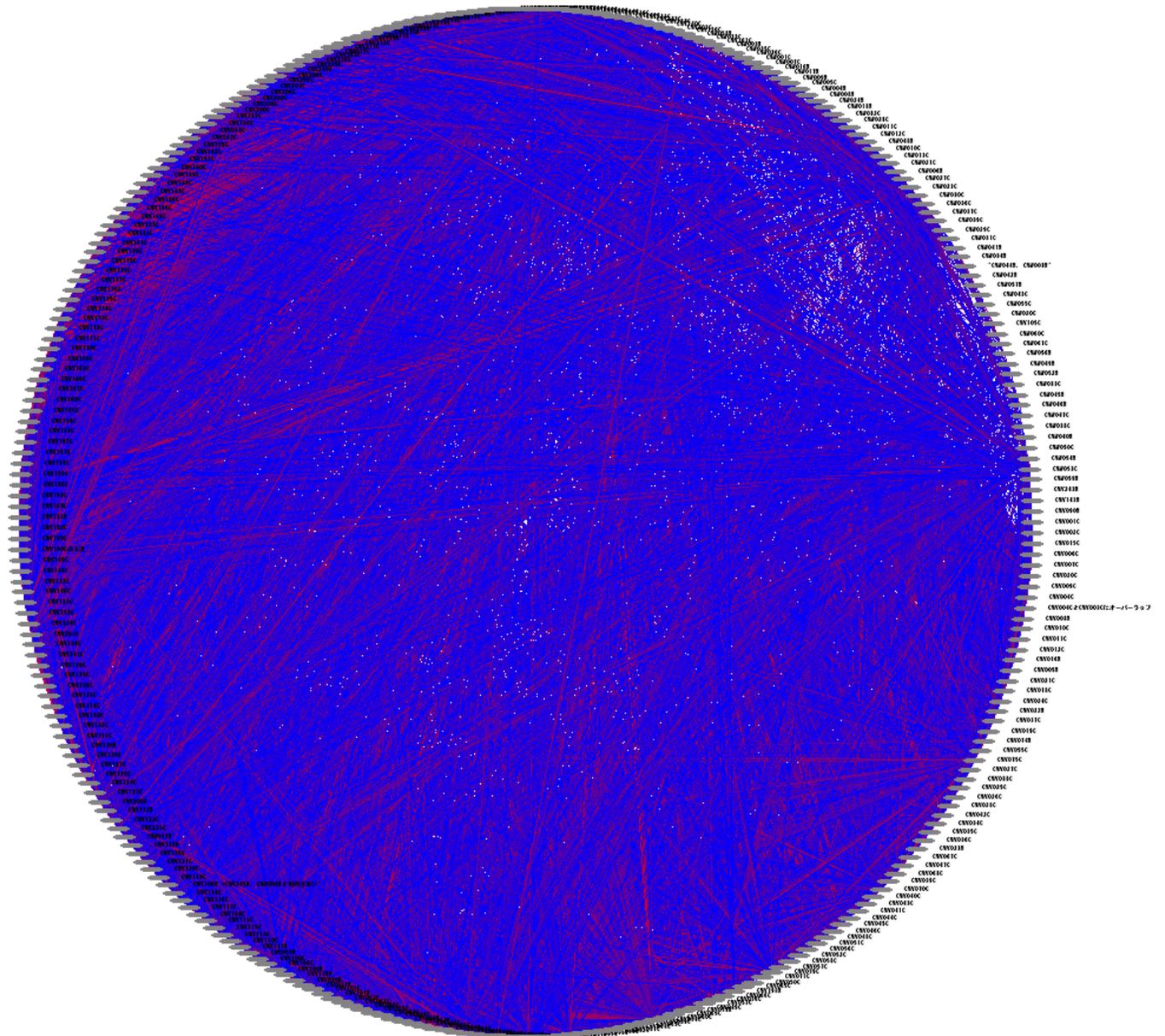
Supplemental fig. 5. Putative element found in 3'-downstream region within 120 base of the ORFs in light-dependent genes in figure 2A. Identification of the element was performed by CONSENSUS, MEME and MD scan in Melina II (<http://melina2.hgc.jp/public/index.html>). The ORFs, which does not possess this element in 3' downstream region was not the terminal gene of the putative operon. Positions of the element in the 3' downstream region are shown in the panel of each gene. Both CONSENSUS and MD scan called almost the same element.

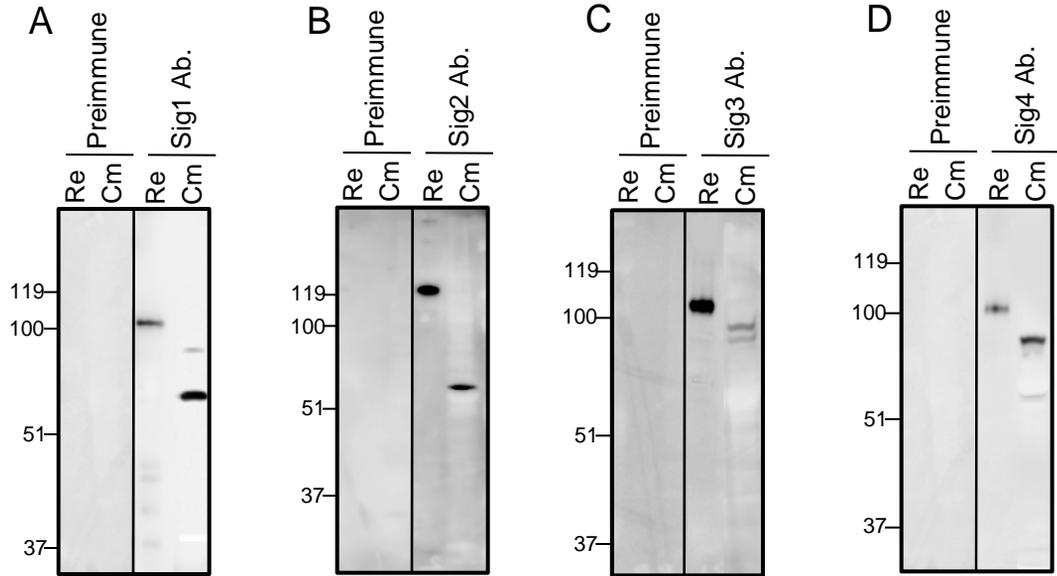
Supplemental fig. 6. Putative element found in 3'-downstream region within 120 base of the ORFs in cell-cycle dependent genes in figure 2B. Identification of the element was performed by CONSENSUS, MEME and MD scan in Melina II (<http://melina2.hgc.jp/public/index.html>). The ORFs, which does not possess this element in 3' downstream region was not the terminal gene of the putative operon without an exception of CMV225C gene. Positions of the element in the 3' downstream region are shown in the panel of each gene. Both CONSENSUS and MD scan called almost the same element (The panel of MD scan shows the element as opposite direction).

Supplemental Table I. Specific oligo-primers for construction of custom DNA microarray.

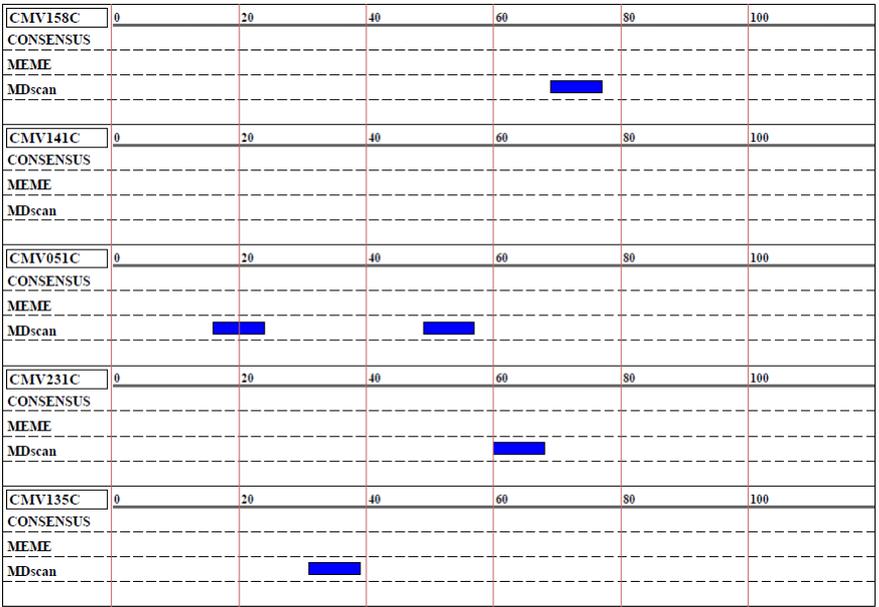
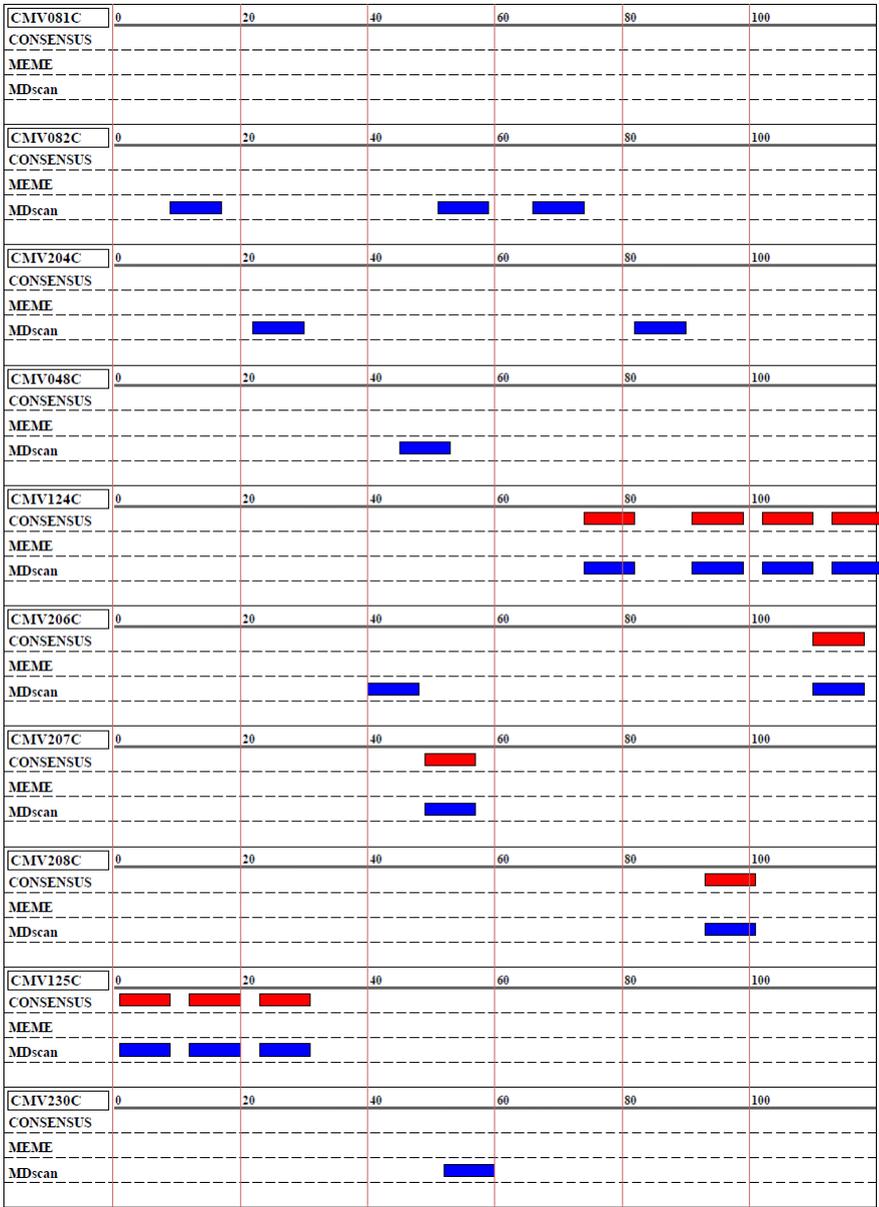








Supplemental Figure 5



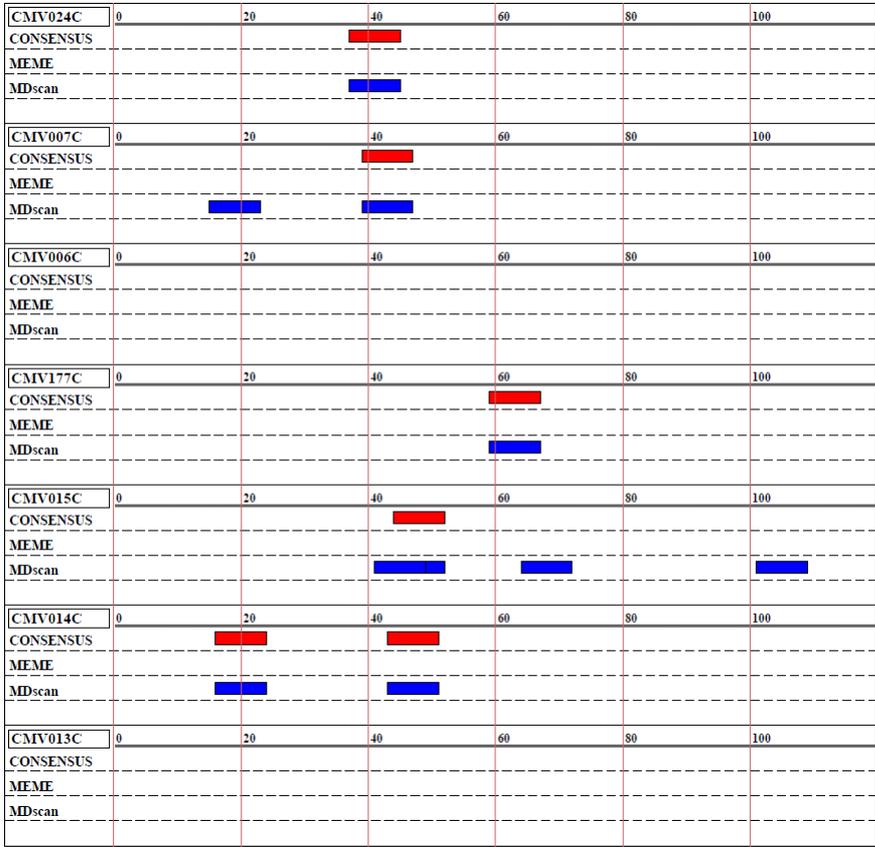
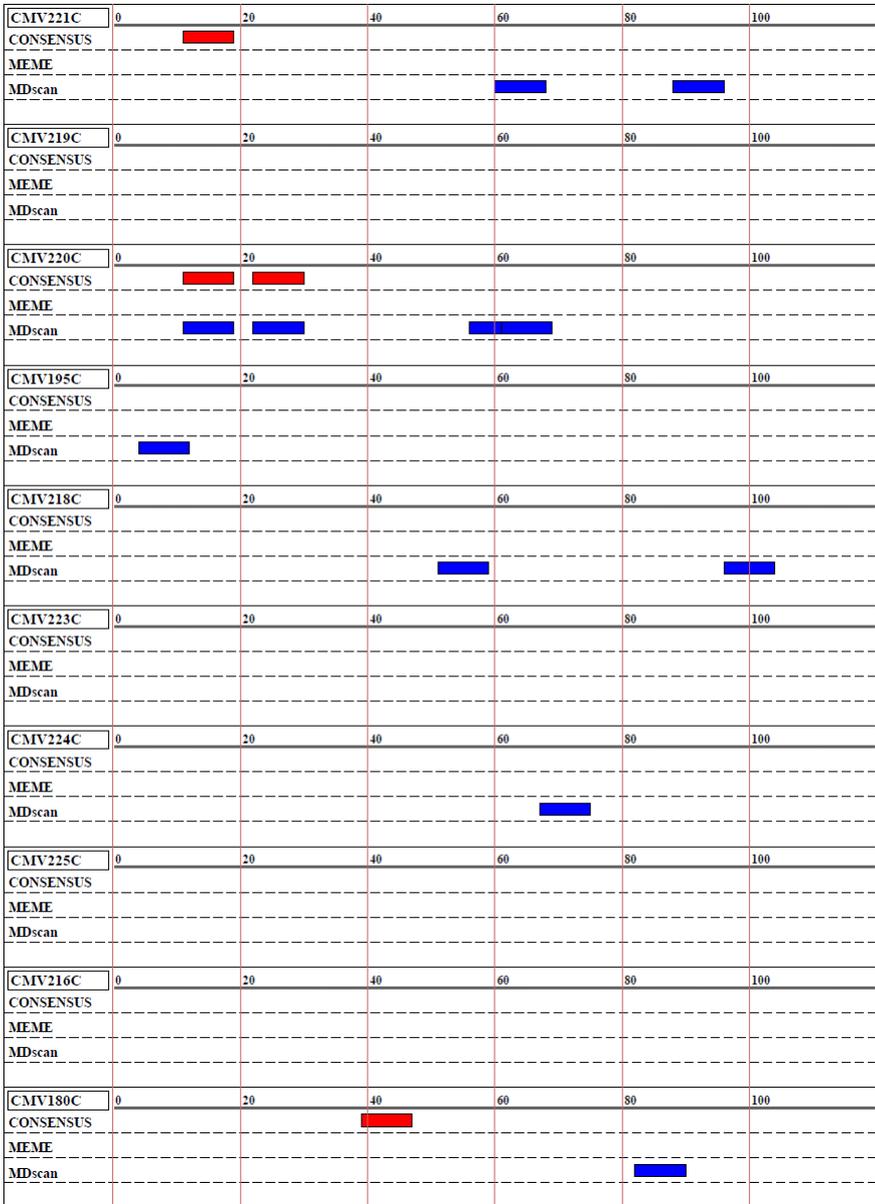
CONSENSUS



MD Scan



Supplemental Figure 6



CONSENSUS



MD Scan



Supplemental table I. Specific oligo-primers for construction of custom DNA microarray.

| Organelle | ORF number | Name | Sequence of designed 50 mer oligonucleotide | Additional information |
|-----------|------------|---------|---|------------------------|
| Plastid | CMV001C | ycf24 | AATTAGTTGGACACAAGTGGAAACAGGATCAGCTATAACATGGAATATC | |
| Plastid | CMV002C | ycf16 | GCCTATGTCTTAATTACGCATTATCCAAGACTCTAGAATATATCAAGCC | |
| Plastid | CMV003C | ycf12 | CGTTCTAGCTCAATTAACCGTTTTAGCTTTTGTGATAGCAGTAGGTCCTA | |
| Plastid | CMV004C | ycf62 | ACTACTGAACAAGATGCACGCCAATACCGATATGCTAATTTAATTCAGCT | |
| Plastid | CMV005R | trnK | CTAACTCAATGGTAGAGTACTCGGCTTTTAAACCGATTAGTCCGGGTTTCG | |
| Plastid | CMV006C | trpA | CGTGATAGAAATAGGAGTTCATATTCAGATGCTTTAGCTGATGGTGCGA | |
| Plastid | CMV007C | infB | ACAGGTGGAGAATATGAAATCTGGCGAAAGAATCAATATCAAGCAAGAGC | |
| Plastid | CMV008R | trnT | TAGTATAGCTCAATGGTAGAGCAGCTGATTTGTAATCAGCCGGTTGCAG | |
| Plastid | CMV009C | rps4 | TGCAAGATATTTAGGACCAAGAGTTCGTATTATTCGTGCTTTAGGCATC | |
| Plastid | CMV010C | ycf80 | CCCTCTCGACAACCTTTGCAAATGGTCCAATTTGAAGGTAATCCTGTTT | |
| Plastid | CMV011C | rpl28 | ATGAGTCGTGTTTGCCTTTAACTCTAAAGAAGTGAATCATGCTTTTCG | |
| Plastid | CMV012C | trxM | CGTGTGATACTGTTATCGGTGCTGTTCCCTAAATCCATTTAATTCATAC | |
| Plastid | CMV013C | rbcL | ATCGTTACTTATATGTAATGGAAGGTGTGAATAGAGCAGCCGAGCATCT | |
| Plastid | CMV014C | rbcS | GGGATTACCTCTATTTGATGTGAAAGACCCTGCTACAATCATGTTTGAAG | |
| Plastid | CMV015C | cfxQ | GTGACACGAGATGATTTAGTAGGACAATATATAGGACATACAGCACCAAA | |
| Plastid | CMV016R | trnC | CAAGCGGTAAAGGAGAGGATTGCAAATCCTTTACCCCAAGTTCGAATCTG | |
| Plastid | CMV017R | trnL | CAGACTTAAATCTGTTGATTCTTTTCGAATCGTGAGGGTTCAAGTCCCT | |
| Plastid | CMV018C | ilvH | AAACATACTTTATCTGTATTAGTAGAAGATGAGGCAGGCGTTTTAACTCG | |
| Plastid | CMV019C | ycf84 | CAACAGCCTGGATAAGTCAACAACAATGGCAACCTATGTGGATGAATGTA | |
| Plastid | CMV020C | ycf85 | TCTCCCAACAAGTATGCAGCCATTATCTGGTGGTGAACGCAAACGAGTC | |
| Plastid | CMV021C | infC | AAGAAATCAAATGAGTTACAACATGGAAGAACATGACTATCAAGTGCGA | |
| Plastid | CMV022R | trnM | TATGGCCGAGCGGCTTAAAGGAGCGGACTCATAATCCGTGGACAAGAATT | |
| Plastid | CMV023R | ssrA | GCTGTAACATGGGGCTGAAGGTGTTTCGACATAAGTTGTTGTTATTCAAT | |
| Plastid | CMV024C | chlI | GATATTGTACCAATAGAGCTGCTTGTGCTCACGCCGCTTAAGAAATTG | |
| Plastid | CMV025C | trmE | CTACAAGTGCTCTTGATGAGGGTTATCCTTTAGAAATTATCAGTTGGCA | |
| Plastid | CMV026C | lpxC | TGTAAGGGAATAGGGTTACATACAGGGCGATTGGTGAAGTAAAGATGT | |
| Plastid | CMV027C | lpxA | GGAGATTAAGTATGATTGCAGGCATGAGTAGGATTGATAGAGATGTACCA | |
| Plastid | CMV028C | psaM | AGTGTGTTGAGCTTTGATTATGGCTTTAGTTTGGGGTATTTGGCTGTAA | |
| Plastid | CMV029R | rrn16 | CTGGCTCAGGATGAACGCTGGCGGTATGCTTAACACATGCAAGTGAACG | |
| Plastid | CMV030R | trnI | CTATTAGCTCAGTTGGTGGAGCGCACCCCTGATAAGGGTGAAGTCTCTG | |
| Plastid | CMV031R | trnA | GGGGTATAGCTCAGTTGGTAGAGCGCTGCCTTTGCAAGACAGTGGTCAGC | |
| Plastid | CMV032R | rrn23 | CATGGAGTTGTGGGAAAGGCACCTTGAACGTACAGCTAAGGTTAGTTAAG | |
| Plastid | CMV033R | rrn5 | CGAGGGTGTCTATGCGACTCATGATCCACTCCGACTCCTTTCCGAATTC | |
| Plastid | CMV034C | rpl21 | TGCTCGTCAACTTTAACTCGTATCTACATTCATCCTTTCCATGGCTCAT | |
| Plastid | CMV035C | rpl27 | ACCTACAATCCATATTCATCCTATCAGTCATCCTATCAGTCATCCTATCA | |
| Plastid | CMV036C | carA | GAGTTATGCACGCCATCGCTTCCAATCAACTTCTTGATCTCTCAACTT | |
| Plastid | CMV037C | ycf53 | AGAAGGATTTGGTTAGCGAAACAGAAGGATTGGATGAAATTTGGGAACA | |
| Plastid | CMV038C | ycf55 | GGTATAGAGAAGGGTATAGAGATTTGAAACCTAGTTGGTTACGAGCCATG | |
| Plastid | CMV039C | cobA | TTAGGTACGATTTCTACAATCAACCATCAAATCCAACGCCATCAATTTGG | |
| Plastid | CMV040C | ycf54 | CAATTCATGCTTATTGTTTCTACTGATGCTACTTGGATTGATTGGCTCAA | |
| Plastid | CMV041C | crtR | ACATTCTAATGAATACATCAACGGTATCATAGGTCACGTATGTGGGTTCT | |
| Plastid | CMV042C | cysW | GGTAGATTAAGTGTCTTATGTAGTACAGCTACTGTATTGATGAATGGCCT | |
| Plastid | CMV043C | cysT | GCCTAATTTAGTACCAGCGATCAAACTGTTTAGGTTAACCTGGAGTC | |
| Plastid | CMV044C | ycf30 | TCTCTATCGGTTAAGATTTGTCAGCTTAGATCGTCATCCACCATACGAA | |
| Plastid | CMV045C | psbY | TTTGCTTCTATTATCGCCGCGCTTCTGGGCTATTTATAACATTTGGTA | |
| Plastid | CMV046C | rpl32 | AAAACGTACACCTAAGTCAAAAACCTCGAAGCCGAAAAGTCAATGGATGC | |
| Plastid | CMV047C | psbA | TATCTTAAACCGTGCGAATCTAGGTATCGAAGTTATGCATGAACGTAATG | |
| Plastid | CMV048C | apcF | ATGCTTTATTTACATCACAACCTGAATTACTTCGACCTAGTGGAAATGCT | |
| Plastid | CMV049C | ycf20 | TGGATGTCTCATTGTTTCATTTGTTGTTAGGTGTTGCTTATCTTCCCT | |
| Plastid | CMV050C | lipB | GCATTCTACAGCGGCCAGTATCTTGGGTGCATTGCGTCTTACAACACTACA | |
| Plastid | CMV051C | cpcG | GATACATTACCAACTGCATCAGAGATGGATCAGTTAATCTGGGCAGCTTA | |
| Plastid | CMV052C | nblA | TGAAACTTACTTTAGAACAAGAATTTCAATTACGAGTTTATCGACAACAA | |
| Plastid | CMV053C | ccsA | CAGTGGCGTTAAGTATTGCTATTGGTACACCTCTAGTGATGCTTGTAGT | |
| Plastid | CMV054C | ORF47.1 | AACTCAAACATCTTTGAATGTCAACTTAACTTAACTCAACCTCACTATTCA | |
| Plastid | CMV055C | psaK | GGTCACATTATAGGAGTGGGTATAGTCTTAGGTTTATCAAACATGGGCGT | |
| Plastid | CMV056C | accA | ATGAGTCAAGATTGGATTGAATTGCACGGAGATCGAAAAGGTAGTGATGA | |
| Plastid | CMV057C | ycf22 | ATGTGTAGTTTAAACGAATTTAAGTATGAAATGTTGGCTTTAATCCGCAT | |
| Plastid | CMV058C | ycf23 | GTGTGAAGGCAGGGGAGACATGCTGGAATTTGGGAATTATGATAGTTTG | |
| Plastid | CMV059C | psaC | TGTATAGGATGTACACAATGTGTAAGAGCATGTCATTAGATGTGTTAGA | |
| Plastid | CMV060C | gltB | ATTCAGTCTGAGTCCAAGTCTGAGTCCACAAGTCAAGATACTTATATCC | |
| Plastid | CMV061C | rpoZ | TGAAACTGTTAAATCAAATGGAATTTATTGTTCTACTTGAAGAATCGT | |
| Plastid | CMV062C | glmS | TATCGGCATGTAGTTTAACTAGCCATAAGTCAATCAGGAGAAACAGCG | |
| Plastid | CMV063C | cpcA | GTAGGTAAGCTAAATGTTCTAGAGATGTTGGCTATTACTTACGTATGAT | |
| Plastid | CMV064C | cpcB | ATATCAGCTATGCTATGATCGCAGGTGATTCAAGCGTATTAGATGACCGT | |
| Plastid | CMV065C | ORF47.2 | TGCATCTAACATTTCTTATTTCTCCTTGTCTTCAATTTCCAGTCT | |
| Plastid | CMV066C | ORF32 | AAACTTCGATAAATATCTTGAATTTAATCGTATCATATTTGCATGGA | |
| Plastid | CMV067C | ORF40 | GGTATTGCTTCGGGATTCATTAGTCTACACCTTGTGGAACCACCACCC | |
| Plastid | CMV068C | ORF45 | TTAGTCACTTGCCTTCGAGGGTGTGCGCTAGGGGAGAGTGGGGTTC | |
| Plastid | CMV069C | ORF44 | ATGAATGAGGATACACCTTGTGGAAGAGGCGGAGTTGGGGACGGCGG | |
| Plastid | CMV070C | ORF60 | ATTAGATTCATCAGATTCATCAACTTCTACCCTTTCTTCTCTCT | |
| Plastid | CMV071C | secA | AAGGACGGACATATTAAGAAGTGAAGAGGTAGGAGAATGGAGTAAGAGTT | |
| Plastid | CMV072C | rpl34 | GGTGAAGAGTAAAAAGTGATAAATAGGAGAAGAAGGAAAGGGAGAAGT | |
| Plastid | CMV073R | rpl34 | AATGGTAGACCGCCAGACTTAGGATCTGGTAAGTTCTCTTGTGAGAGT | |
| Plastid | CMV074R | trnL | GATAGCTCAGCGGTAGAGCGGTGGCTGTTAACCATTGGCCGTAGGTTTC | |
| Plastid | CMV075C | ycf44 | AAAGGAAGATGGATCTATCAACAGATTGGAAGTGGGAAGGAGTAAGGAT | |
| Plastid | CMV076C | trpG | TCTTCCCTTCTCTTTTACCATTGCTCTATCATTATCTCTCTGGACC | |
| Plastid | CMV077C | thiG | TGTCGTAAGTGTGCTCCGAAAGCTGTTGTTGGCTCTTCTGCTCGTCAATT | |
| Plastid | CMV078C | ycf60 | ATATTATTATATTGAGGATGGGAAGTGTGATCTACGCAAGTTATCAAGT | |

| | | | | |
|---------|---------------|---------|---|--|
| Plastid | CMV079C | rps6 | AAAGTTGGAGAAGTATTTGCAGGTAATGAGAAGGGATTGAGATATATGA | |
| Plastid | CMV080C | ycf27 | TATCAAAGGTTTACTTCGACGTACAAATCAGGATCAAAGTTGGCACTTGG | |
| Plastid | CMV081C | psbD | TGTGTTTCATAGGTTGGTCAGGCTTACTTCTGTTCCCTTGTCTTATCTTG | |
| Plastid | CMV082C | psbC | TGGGTTTCATTAATTCAGTAGGAGGTGTGGCAACAGAAATTAACCTCAGTG | |
| Plastid | CMV083C | ycf19 | TCTACATAGCAATAATCTTACTGCGGATTTGTTAAGTTGGTTCCAGCA | |
| Plastid | CMV084C | rps16 | GTCGTGAGGAATGCCTAGCTATAGAGTGGTAGTTATGAGAAGTCAGACT | |
| Plastid | CMV085C | ycf65 | GGATATCGGCCATACAAAGGAAAGTACTACTAGATGAGGCAACATATGTC | |
| Plastid | CMV086C | groEL | CGATGTGAACAAATTAACAACAATGGGCTCGCAGTGATTCCAGTTACGA | |
| Plastid | CMV087R | trnR | CTTGTAGCTCAGGGGATAAGAGCACGTGGCTACGAACCACGGTGTGGGG | |
| Plastid | CMV088R | trnQ | CCAAGTGGTAAGGCAGCGGACTTTGACTCCGCCATTGCTAGGTTGCAATC | |
| Plastid | CMV089C | psbW | CGTTTAACTCGTTCAAGAGATGGACAACTGGTACGGCAGTATTTGTTT | |
| Plastid | CMV090R | rnpB | TATTTAACATAGGTAAGGGTGCAAAGGTGCGGTAAAGAGCTACCAATTA | |
| Plastid | CMV091C | rps1 | GTATCATGTCAAAGCTTGATCTACTCACGTTCTAAGTCGTTTATTGCA | |
| Plastid | CMV092C | ycf40 | TGCTTGTGATTTATATTAACGGTCATCTACTTTATTCAAACGTGTCATG | |
| Plastid | CMV093R | rps1 | AAGTGGTTAAGGCAATGGATTGTGGCTCCATCATCTCGCGGTTCAAATC | |
| Plastid | CMV094C | ycf29 | GAGTTGACGCCAAAGAACAACATCTACTCAATGCTACTGCCAGAGGCTT | |
| Plastid | CMV095C | ycf28 | TTGGCGTATTATTATGCTCAAGAATCTCCAAAAGGCTTGTATATCCCATG | |
| Plastid | CMV096C | petB | GTTTGCATACGTTAGTTTTACCAGTCTTGTCTTAGTCTTTATGTTAGCG | |
| Plastid | CMV097C | petD | GTTCTTAGTGGGCACAGTGGTAACGATTTGGTTAGGAATAGGAGCAACAA | |
| Plastid | CMV098C | dnaB | AGAATTGGATGTTCTGTAGTGGTTCTATCTCAACTTAGTCGGAATGTGG | |
| Plastid | CMV099R | petD | GAGAGATGGCTGAGTGGTCTAAAGCGTAGCATTGGAATGCTATGAAAAC | |
| Plastid | CMV100C | moeB | CTCTGTAGTATAGGAGTGGGTTACTTAGGCTTAGTGGATGGAGATGAAGT | |
| Plastid | CMV101R | trnS | ACATAGGCTCCAAAACCTATTGTGGAAGTTGAGTCCCTCAGGGCGTG | |
| Plastid | CMV102C | rpl11 | GTTACTCATTCTCTCAAACCCACCGCTTCTGTACTTTTAAACGTT | |
| Plastid | CMV103C | rpl1 | GCAATCAAAGAATCTGTAGAACTAATAAACCTCCGGTGTCTTGGACT | |
| Plastid | CMV104C | rpl12 | TCCGCATCTGAAGCTGAACAACCTAAGACTCAATTAACGGAAGCTGGTGC | |
| Plastid | CMV105C | ORF41.1 | TGTCAGAAGTAGAGAAATGGATAAGATTGAGGAAAGTTCTTATCTTAAA | |
| Plastid | CMV106R | trnF | AGTTGGTAGAGCAGAGGACTGAAAATCCTTGTGTACGAGTTCAAATCTC | 86% and 84% identical with CMV245R and CMW008R, respectively |
| Plastid | CMV107C | clpC | AAGGATGCAGCATTAGAACGCGGATTCACACCTGTGATGGTAGGAGAACC | |
| Plastid | CMV108C | rpl19 | ACGATCAGAAGTCTTCTATCCGGGGTAGGTTGAACGATTTTTGTATTT | |
| Plastid | CMV109R | clpC | GATATATAGCTCAGTCTGGTAGAGCATCACGTTGACGTCGTGAGGGTCAC | |
| Plastid | CMV110C | ycf17 | AACAATGCCGAGATGTTGAATGGTGCCTTGCTATGTTAGGGTTGTAGC | |
| Plastid | CMV111R | trnV | CCCGAGTGGCTAATGGGGGCGGACTGTAATCCGCTGGCTACGCCTACG | |
| Plastid | CMV112R | ycf17 | CTTGTAGCTCATTGGTAGAGCATTCCCTTGGTAAGGAAAGGTGGCGAGT | |
| Plastid | CMV113C | menB | GATGATGATATAGGAGTCTGATCTTAACCGGAGAAGGAACAAGAGCGTT | |
| Plastid | CMV114C | menF | ATATTCATATTCGCCTACTCTATCTGGTTGGAATCAATGCTTACATCAA | |
| Plastid | CMV115C | menD | ATGATCCTGTTTCAATGTTTGGTAAACCGTGGAGTAAGTGAATGATGGC | |
| Plastid | CMV116C | menA | ATGGTTGATCTTTTCGACCCTTGGTTTTGGTTGCTTATGATGTGTGTTT | |
| Plastid | CMV117C | menC | TGGTTTACCTCGGATGATCGATTTGGTGAATCATTGTTTGTACATACATC | |
| Plastid | CMV118C | menE | ACCCTATGTTGATATGTTTCACTGGTACCCACTCAAATATTTCCGGTTGA | |
| Plastid | CMV119C | ycf83 | TCATTATCGCATTGCAAACATCATCAACTGGTAGCCTCTGTTTCTATGA | |
| Plastid | CMV120C | ORF138 | GCCTTGATGATTATGAGTGGAACTAATACACATAGCGACGGTTTGTTC | |
| Plastid | CMV121C | ycf82 | CTACAGATGCAGGAGCAGATCGGGAAGTTAGAACCTAACTTAGGAGTCT | |
| Plastid | CMV122C | ilvB | CGATTATCCCTTACTAATTCCTCGTCCCTTCTTATCTATCCGCACAAG | |
| Plastid | CMV123C | ycf33 | AGTTTATTATTTCTTCTCTGTTAGGTTAATTACCTTTCTCTTGACACCT | |
| Plastid | CMV124C | psbB | CATCGCATCATATAGCAGCAGGACTGTAGGATCTTGGCAGGAGTCTTC | |
| Plastid | CMV125C | psbT | GGTACATTGATGATTATCTTTTGGCATTCTTTTAGAGAACCTCCAAG | |
| Plastid | CMV126C | psbN | TAGTGTGTTTGTGCTAGTCTCGTTATCGGATTAAGTCTTATGCCATTT | |
| Plastid | CMV127C | psbH | ATTTATAATTCAGGTTTATTGCTTAATGATGTACAAGTGGATTGGATGGG | |
| Plastid | CMV128C | psaE | TTATATCCTGACTCGTGGATTTGATAAAGTTAATTATAGCGGCTTAA | |
| Plastid | CMV129C | ftsH | GGGTGCTGGGATAGGAGGAGGAAATGATGAAAGAGAACAGACATTAATC | |
| Plastid | CMV130R | trnD | GCACCGCCTGTACGGCGGAAGTTGCGGGTTCGAGCCCGTCAGTCCCG | |
| Plastid | CMV131R | trnS | CTGAGTGGTCGAAAGCAACAGATTGCTAATCTGTCGATGGGCCAAATTC | |
| Plastid | CMV132C | acpP | GAGTGAACGCTCTCAAATTTCTCCTAATGCCAGTTTACGCATGATTTA | |
| Plastid | CMV133C | ycf86 | AAATCAGGATTAAAGCGTACCGATGAAGAACCAATAGGACAGATAGCT | |
| Plastid | CMV134C | accB | ACACCGAGACGTTGAAAGAAAGTTCAAAGAAAGTTCAAAGAAAGTTGCG | |
| Plastid | CMV135C | psaA | ATATGTACGCAATGCCACCTATCCATACTTAGCAACCGATTATCCAACG | |
| Plastid | CMV136C | psaB | CTTAGCTTGGACAGGTCAGTTAGTTCATGTGGCAATTCCTGCGTCAAGAG | |
| Plastid | CMV137C | rps14 | AAGACGCAGATGTTGGTTAACAGGCGGTAGTAGAGGTGTCTACCGTTATT | |
| Plastid | CMV138C | hisH | GTTACCAGTGAAGTGATACCTCATATGGGTTGGAACAGGTTAGAGTGTCT | |
| Plastid | CMV139C | petG | GGTCTTATACCTATTACTATTCTGGGATTAAGTATGGCCGCTTATTTCCA | |
| Plastid | CMV140C | psbK | TTGATCGCTCAACTACCCGAAACTTATTCGATTTTGTCTCCTGTTATTGA | |
| Plastid | CMV141C | psbZ | ACCGCATCTGGTGGTCTAAATCTAAATCTAGCATTGTTACTGCTTCCAT | |
| Plastid | CMV142R | trnG | GGTAGAGCGCAACCTTGCCAAAGTTGATGTGCGCGCTTGAATCGCGTTG | |
| Plastid | CMV143R | trnS | GGCAGAGTGGTTGATTGCGGTAGTCTGAAAACCTATTGAATCGTGAGATT | |
| Plastid | CMV144C | psaD | GCGTACTACCATACCAAGTTAATAAAGGTCGTGAACAAGTAGGACGTGTCT | |
| Plastid | CMV145R | trnS | GCGGAGTAGAGCAGTCTGGTAGCTCGTGGGCTCATAAACCGAAGGCCAA | |
| Plastid | CMV146C | ORF47.3 | AGGTTTGGCCTATTTTAGCACTTACCTTTCATCATCATATGCTTATCGGGT | |
| Plastid | CMV147C | petM | GATCATATGCCGTTAATGGTTATGGTTGGTTTGAAGTGGGATTTGCAC | |
| Plastid | CMV148C | petN | CAGTATAACTTGGGGTTGTCTGATGGCTACATTTACTGCCTCATTGGCAC | |
| Plastid | CMV149C | ycf59 | GGCGTTATATCAGGATTTATAGACATTTAGAGGCTCATCCAAAATGGAGT | |
| Plastid | CMV150C | rpl35 | AGGATTCAAATACCAAAGCACATTTAAGACGTAAGCAGGCAAAAGTCA | |
| Plastid | CMV150C (ups) | ORF38 | GTGCAATCTTATTAGTGCAATCTTACAAAACAAAGTGCAATCTTACA | putative transcribed region |
| Plastid | CMV151C | rpl20 | GCCTATGGATTACCCGCTCAACGCCATCTTGGCGTATAAGTACAGTAAA | |
| Plastid | CMV152C | preA | GAAATGATTCACACGGCTAGTTTATTGCATGATGATGGTAGATGAAGC | |
| Plastid | CMV153C | odpA | TCAACAGGAGTAATCAAGCACTTGACAGAACATGATTATGTATGTAGTAC | |
| Plastid | CMV154C | odpB | TTCAGCAGAACATTTCAACGTATAGAAGCCTACTTCAAGCGGTTCCAG | |
| Plastid | CMV155C | petA | TCCTCTTAAAGCACAGATCTACAAACCAATAACAAGTTCACTTTGTGA | |
| Plastid | CMV156C | tatC | TCTCTTAGTTCACATTGCTGTAGAAGTGTGTTGACGTTGAGTCAACCTG | |
| Plastid | CMV157C | apcE | TCCATGTCAATTACCATCAGCATTACCTCAAGATCGTCTAGAAGCCAATG | |

| | | | |
|---------|---------|---------|---|
| Plastid | CMV158C | apcA | GTGTAAGAAATGTACAACCTACTAGGAACACCAATTTTCAGCGGTAGCC |
| Plastid | CMV159C | apcB | GGAGCAACGATCCAATCTATTCAAGCGATGAAAGAAGTAACAGCAAGTTT |
| Plastid | CMV160C | argB | TATTTCTCACTTGTGTGGATTTCAAATCGTGGTAGTACATGGTGGAGGG |
| Plastid | CMV161R | trnI | AGGTTAGAGCGGGGACTCATAAGCCTCAGGTCGTAGGTTCAAATCTTAC |
| Plastid | CMV162C | hupA | AACAAGCGTCCCAATCTCAGGAAGATGCAGATAACAAACAAGATGACAAA |
| Plastid | CMV163C | dnaK | TTATTGCCGTTATGGAAGGTGGTCAACCTACCGTTGTGCCTAATTCGAA |
| Plastid | CMV164C | rpl3 | TTGGATTGAGAAATTTGAGTGAAGCACCTTTCTGCTATCCCATAGGAA |
| Plastid | CMV165C | rpl4 | AAAGGAACAGGACGTGCCAGAGCAGGTTCAAGACGCTCACCTCTTTGGCG |
| Plastid | CMV166C | rpl23 | GTCAGTATACATTCCAAGTGTCTCCAAAATGCGCAAACCAGACTTGAGA |
| Plastid | CMV167C | rpl2 | GAATCCTGTAGATCATCCTCATGGTGGTGAAGGTAGATGTGGTATAG |
| Plastid | CMV168C | rps19 | TATTCATAACAGATGCATTAGTAGGGCATAAGTTGGGAGAATTTGCGCCT |
| Plastid | CMV169C | rpl22 | AAATATCAAGCCAAATATATAAGAATGTCTCCAATCAAGTGAAGCGTGT |
| Plastid | CMV170C | rps3 | GGGCTGAAATGCTCGTAGTGGTGAAGCATGGTCAAATTCCTTTG |
| Plastid | CMV171C | rpl16 | AGTATAGAAAACCGCATTAGGAAGATTAAGGGTAGAGCTAGTCGATGT |
| Plastid | CMV172C | rpl29 | AGAAGCATGATTTGGCGAAAGAGTTGAAACAATCATGGAACCTCATG |
| Plastid | CMV173C | rps17 | GCTTCTTTAGGAGAGCTATTGGATTGCTACATGCAGACCTATAAGTAA |
| Plastid | CMV174C | rpl14 | CCTAAAGGCACAAGAGTATTTGGACCCATCGCAAGAGAATTAAGAGAAGC |
| Plastid | CMV175C | rpl24 | GGAAATCTAAGGGTCAAATAGGTGAGGTGCTAGTCATTGATCGTAAGCG |
| Plastid | CMV176C | rpl5 | ATATAGCTACTCAAATGTTCAATAACCGAAATACGTTCCATTTCATC |
| Plastid | CMV177C | rps8 | TACTAGTGCTGCCAGTAGAATGAATTGGAATGTAGCTCAAGTACTCGGT |
| Plastid | CMV178C | rpl6 | TCGTGCACAGTTAATGAAAACGATTTAGTACTTTATGTGGGATTTAGTC |
| Plastid | CMV179C | rpl18 | GATGGCATAGTACGATGAAAGATGCTCAAGAAGTAGGTCAAAAACCTTGGC |
| Plastid | CMV180C | rps5 | ATGAATGAACAACAAGAACAGTGGCAAGAACGAGTTATACAAATAGACG |
| Plastid | CMV181C | secY | TCTTCAGTGGTTTTGGGGCTACTTCTTTATAATTGTCATAGGTGTATCT |
| Plastid | CMV182C | rpl36 | ATCAAAAGGCGTATGGAGTATTGAGAGTATTGATAGTAAATCCAAAACA |
| Plastid | CMV183C | rps13 | TAGCCAAAGAGATTTTAGAAGCATGTCAGTTATCACCGGATTTACGTGTG |
| Plastid | CMV184C | rps11 | GATTCAAGATGTTACAGGCATACCACATAATGGATGTCGTCGCCCAAAAC |
| Plastid | CMV185C | rpoA | CAACCATTACAAGATTGAAAGTGAAGGACCTGCTATAGTAACTGCGGCA |
| Plastid | CMV186C | rpl13 | AATCGTGACCTGATTGAAATGTGCAAGCTAACAGATTCAAGTAACG |
| Plastid | CMV187C | rps9 | ATGTATGCCATAGGAAAACGTAATGTGCCATAGCGCGTGTATGGTTAAG |
| Plastid | CMV188C | rpl31 | AACAAGTAGATACAGAAGGTAGAATCGAGAAATTTATGCGTAAATACGGT |
| Plastid | CMV189C | rps12 | CGGGTCAAATTAACCTCAGGGTATGAAGTGACAGCTTATATCCAGGAAT |
| Plastid | CMV190C | rps7 | GATGCCATTAGTATGCGTGAAGCAAGACGCTAGGAGGTGCTACATATC |
| Plastid | CMV191C | tufA | CCAGTAGCCATAGAACAAGGGATGCGATTTGCCATTAGAGAAGGAGGACG |
| Plastid | CMV192C | rps10 | CATCAGCAGCAACGATCGATGCCTAATGAAAGTAGATTTAGCTTACGGG |
| Plastid | CMV193C | petF | AAGGTGTCGATCTACCCTATTCTTGTGCTGCTGGTGTCTACTTGC |
| Plastid | CMV194C | ycf38 | ATAGAATTTGGGTTGCTCCTTTAGTGTCCAGAAGCAGTATTTGGATCAGT |
| Plastid | CMV195C | atpE | CTTACAGCATTAGATATAGGTGTGATGAGAGCCAAAACCGCCCAAGGATG |
| Plastid | CMV196C | atpB | TTACAAGAACGTATCACCTCCACTGTTGATGGCTCTATTACCTCTATCCA |
| Plastid | CMV197C | ycf3 | AGCCGCTTATTGGCGTAAAGCTATTCAATTAGCACCTGGTCAATATCTAG |
| Plastid | CMV198R | atpE | ATCGTCTAGAGGCTAGGACATCTCCCTTTCACGGAGGTAACGGGGATTC |
| Plastid | CMV199R | atpB | GATATAGCGTAGTTTGGTAGCGCGCTGCTTTGGGAGCAGGATGTCGCAG |
| Plastid | CMV200C | ycf52 | AACTTGAATGCAACCATTTGGGATGTGGTTATTCATCCAGACTATCAAC |
| Plastid | CMV201C | psaF | GTTAACTCCTTGCCAACAAGTGAAGCTTCCATAAACGTGAAATCAATG |
| Plastid | CMV202C | psaJ | CCGGTAGTCGCTACTTTGTGGTTATTTTAAACAGCTGGGATTTTAATTGA |
| Plastid | CMV203C | ORF41.2 | TTTGTGAATCTTTGTTATCTAGTACTTATGTTCTACTCATTACCTTAATA |
| Plastid | CMV204C | apcD | ACGTTAATTACTTATGCTCTTATCGAAGGTGATGCCATGGTCTTAGAAA |
| Plastid | CMV205R | psaJ | GAAATTTGGTAAACACGCATGCTTGAGGGGCATGTTTTTTCGAGTTCGAG |
| Plastid | CMV206C | psbX | CAAGTCTAGCAGCATTCTTTTGGAGTCTTATATGGGCAGCTGTCTTAGTC |
| Plastid | CMV207C | accD | GTGTGTGGAATGTGATTATCATTGGCGTATGCCAGTAGAGAACGTATTG |
| Plastid | CMV208C | psbV | GATGACTCCCATGATCAGCTGGGCTACAGAAGTGGTCAAAGATGTTAGTG |
| Plastid | CMV209C | petJ | ATGCCATCATTTAGTCGTTTAACTGACAGTGATATTGAAGACGTAGCGAA |
| Plastid | CMV210R | trnR | GGGCTCATCGTCTAAGGGATTAGGACAGGAACCTTCTAAGTTTCTAATGT |
| Plastid | CMV211R | trnV | GTTAGCTCAGCGTAGAGCGCTGCCTTACAAGCAGGTGGTCACTGGTTC |
| Plastid | CMV212C | ycxr | TTGGTGCCTTACTAGCTCTCATTAGTTGCCATTACGCACTTATCACTCGT |
| Plastid | CMV213C | rps18 | ATGAAGAGAGAAAAGGAGAGAGAAGCATGAATATTCAAAAGATGATGAA |
| Plastid | CMV214C | rpl33 | GTGTGGGTATTAGCTTAGAATGCACGGCATGTCGAGCTAATGCGAATCAA |
| Plastid | CMV215C | rps20 | CTTATGAAACATGCTACCAAAGATGAAGTTGAATCAGCCATTGATAAAGC |
| Plastid | CMV216C | rpoB | GAACATTAGTGTACGTGTGAGTGTGGCCGTGAAGCGTGAATCCAAGTAG |
| Plastid | CMV217C | rpoC | TTATCATGCCCTCACAGGATATGGTCATAGGTTGTTATTATCTCACAGCC |
| Plastid | CMV218C | rps2 | TTAACAGTTCAAGTAAAGTGAAGGTAACCGTGTCTTGTGTTGAGGAACAA |
| Plastid | CMV219C | tsf | AGCGTCAAGTCAAGTAGCTGAACAATTAGTGAACAATTAGCCAATAA |
| Plastid | CMV220C | atpI | CACGTTATGTATTACCTACACCCATCTTATTACCTATTAATATCTAGAA |
| Plastid | CMV221C | atpH | CCGCGATAGGACCAGGAATCGGCCAAGGAAGTGCAGCAGCCAACGCTGTG |
| Plastid | CMV222C | atpG | GTTACCCGTGATGGGATTGCAAGTAGTCTTGTAAAGTTGGCTGTAGAGC |
| Plastid | CMV223C | atpF | CGCCAATAGATGGTAGTCAAATCTAGATCGACATATTTCTCTCCTCAGC |
| Plastid | CMV224C | atpD | CAGTTAACACGTATGTGTCAAGCCAAACATTTGCAATGTGAGTATCAGGT |
| Plastid | CMV225C | atpA | CAGACCAGCGATCAATGTAGGTATATCAGTATCACGAGTAGGATCAGCAG |
| Plastid | CMV226C | frnC | AATTTGCTTGTGTTCTATGCGTGAACGCAAGAATGTCATTGTATGTT |
| Plastid | CMV227C | psaI | TGTCAGCGTCATATTTACCATCTATATTAGTACCTACGGTGGGCTTAATT |
| Plastid | CMV228C | psbJ | TTGTTGCCACGATGGAGGATTGCTGTTTTAACTGTCTTAGGTTTGT |
| Plastid | CMV229C | psbL | GGACCAAATCCAAATAAACAACCAGTAGAATTAATCGAACATCTCTTTA |
| Plastid | CMV230C | psbF | TTTACCTTTGCTGGTGTAGCTATCCATGGTTTACCGTCCCTACTGTATT |
| Plastid | CMV231C | psbE | GCAGGATGGTGTGTTGTAAGTACAGGATTAGCCTATGATGTTTGGAAAC |
| Plastid | CMV232R | trnG | GGGCATAGTTTGTGGTAAAACCCTAGCCTTCCAAGCTAGTATGCGGGT |
| Plastid | CMV233C | ycf4 | CCAATGCCTTTGGCCGAGTTGGAACAGAAAGCCACACAGTTAGCACAAATG |
| Plastid | CMV234C | ycf49 | CAGCGATAAGTTGGCATATGACACATAATCGAGTGAAGTGGTGTAGTATC |
| Plastid | CMV235C | petL | TGGATTAGTTATCTAGGTTTCTTGATATTTTATTTTATTTAGCAGCAGC |
| Plastid | CMV236C | psaL | GCCGTTGGTGGTGGTGGTTCGCTTATCTTTTACTCACTTATTTTCTTA |
| Plastid | CMV237C | ycf10 | AGCTTCCTTGAATATTTATTGTTGTGATCTTAATTCGGTGGTGGTCA |

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|---------------|---------|--------|---|--|
| Plastid | CMV238C | ORF340 | ATAAGAATCAAGCTTATGCACTCATTGATTTTCACCTCCTAACACTAGT | |
| Plastid | CMV239C | ORF147 | AGTTGGCATTTAGCTTCCAATCATCTATGTTTTCTTCTAGTCGTGTGT | |
| Plastid | CMV240C | psbI | TTTTATCGAATGATCCATCACGCAACCCGAATCGAAAAGATTGGAAATA | |
| Plastid | CMV241C | ORF515 | GAAGAGCAAGTTGAAGACGATGTAAGTGAGCAAGAGTGTGAGCAAGAATC | |
| Plastid | CMV242C | ycf39 | CTTAATCTCTCGTATGCTCTTCTATATTAGATTACGTCAGTCTGGT | |
| Plastid | CMV243R | trnL | AATTCAAAATTTGACGACAAAAGTCATGGGTTCAAGTCCCCTCTACC | |
| Mitochondrion | CMW001C | sdhC | GCTCTGGCATTATCATTTGCTTTTGAATTAGGGTATTTTTACCATATG | |
| Mitochondrion | CMW002C | sdhB | TCATACAAAGTATATAGATGTCATACAATTATGAACTGTAAGACATG | |
| Mitochondrion | CMW003R | trnH | GGCGAGTATAGCTTAGTTGGTCAAAGCGACAGACTGTGAATCTGTGATCA | |
| Mitochondrion | CMW004R | trnG | AAAGGTAGAGTATAATCTTGCCAAGATTATGGTTGAGGGTTCAAATCCCT | |
| Mitochondrion | CMW005C | nad6 | ATTTTAATAGGAAGTATTTTAGGAATTATTTTCTTAGTACAACTTTCTT | |
| Mitochondrion | CMW006R | trnL | GATTAGGATCTGATGGGTATCAACCCTGTGGGTTCAACTCCCCTGTCT | |
| Mitochondrion | CMW007C | cytB | GCATTATACGCCTCATGTGGATTTGGCATTATAGTGTAGAACATATTA | |
| Mitochondrion | CMW008R | trnF | CTAGGGTTAGAGCAGAGGACTGAAAATCCTCGTGCAGAGGTTCAAATCC | |
| Mitochondrion | CMW009R | trnK | GGGTGCATAGCTTAGTTGGCTAAAGCATCAGACTTTTAACTGTAGATCT | |
| Mitochondrion | CMW010C | cox2 | GCTGTACTGTTAAAGCAGTGGGACATCAATGGTATTGGAGTTATGAATA | |
| Mitochondrion | CMW011C | cox3 | TCAGTAGTTTGGTGGCAGATGTAATCGTGAATCAACATATGAGGGATC | |
| Mitochondrion | CMW012C | ORF171 | ACCCAAATAGTTATGTGAATAAATCATGGAATTATTTACATGGTTCTGT | |
| Mitochondrion | CMW013C | rpl6 | ATAGAGGTATTAATTACTGTAATGAACTGAGTTCCTATGTACCTCACATT | |
| Mitochondrion | CMW014R | rrn5 | TGAAACTTGTGTTGTCAGAAAATACTACTTAGATGGGAATCCTGGGAAC | |
| Mitochondrion | CMW015R | trnM | AGCGGACTAGTTCAGTGGCTAGAACAGCAGAATCATAATCTGCGTGTCCGG | |
| Mitochondrion | CMW016R | trnC | ATGCAAAAAGATTGCAAATCTTTGGATGATGGTTCAAGTCCATTCTAGCT | |
| Mitochondrion | CMW017R | trnP | AGCTGGTAGCGCATCTGTTTTGGGTACAGAAGTTCGCGTGTCAAATCAC | |
| Mitochondrion | CMW018R | trnL | ACGGTAGTTTCAAATCTATTACTTACTTTAAGTTTGGTTCGAGTCC | |
| Mitochondrion | CMW019C | cox1 | AGAATGGAATTAGTTCAACCTGGTAAATCAATTACTTATGGGAATCATCA | |
| Mitochondrion | CMW020C | nad3 | TACTATCGGTTTTCTTTATGAGTGGTTTAAAGGTGCCTTAGATTGGGAGT | |
| Mitochondrion | CMW021C | nad1 | AACGTAAGGACCTAATGTCGTAGGTATGTTGGCCTGTTACAACCCTTA | |
| Mitochondrion | CMW022C | nad2 | TTTAACTTAGCGCCGACCTTCCATATGTGGAGCCAGATGTTACGA | |
| Mitochondrion | CMW023C | nad4 | AAAGTTCCTATGATTCCTTTCCATTTGGTTACCAGAAGCTCATGCAGA | |
| Mitochondrion | CMW024R | trnI | TTAGAGCGCACGCTGATAAGCGTGAGGGTGGTTGTTCAAGTCAACTTAG | |
| Mitochondrion | CMW025C | nad5 | CTTATCAACTTGCAGTCAATTAGGTTACATGATATTCGCTTGTGGAATT | |
| Mitochondrion | CMW026C | atp8 | TTGGCTTTACTTATTATGATTGTAGCTTATAGCTTTGTAATTAAGAA | |
| Mitochondrion | CMW027C | atp6 | AAGGAAAGCTCTTAGTGCCCAATAGATGGCAGTATGTTATAGAAATACT | |
| Mitochondrion | CMW028C | ccmF | TGGTTATTAAGCCTTGCTTTATTACATAGTTTGTGCTAACTTGAAGTT | |
| Mitochondrion | CMW029C | ccmA | TCTGATTATATGCTAACCTATTTGGTTGTTAGATGAACCTGAGTCGA | |
| Mitochondrion | CMW030C | ccmB | AAACAATGATTATGACATCTTCTTAGTTAAATTTACAATATCCCCTTCA | |
| Mitochondrion | CMW031C | rpl20 | GAGAAATAAAGTAAATATAATAATCTTGTATTAAATAGTTCAATATTTA | |
| Mitochondrion | CMW032C | rps11 | TGGAAGCACAGGTTTTCAGTGGGTTCAAGAAAATAACAATTTCTGCCATTA | |
| Mitochondrion | CMW033C | rps8 | ACTCCCTATTATTTAGATCTATTACATTTACTATTACATGAAGGCTTC | |
| Mitochondrion | CMW034R | trnW | AAAGGAATCAAAGTTTGGTCTCCAAAACCAAAGATAAGGGTTCGAGTCC | |
| Mitochondrion | CMW035C | rps14 | CAAAGTTCATCATTCCAGCATTTTATGAAAGTTAGAAATCGATGTGTTTT | |
| Mitochondrion | CMW036C | rpl5 | AAGTTACAATTACCAGCTTTTCTAAGTGTATTATCTATGCGGACAAAGC | |
| Mitochondrion | CMW037C | rpl14 | CGATCTTTGGATAATATATGGACTAACTTTATAGACAACGGTGTAGTTCT | |
| Mitochondrion | CMW038C | rpl16 | CAACAGAATCAGGTTACATTACTGCTTCAACTGGAACCTGTCAAACGT | |
| Mitochondrion | CMW039C | rps3 | ACCGTCCCATTACAACTAAAGAACATGAGATTTTATATTCGACTAGAGA | |
| Mitochondrion | CMW040R | trnQ | GGGATATAGCCAAGAGGTAAGGCAGTAGTTTTTGACACTAAGACCAAAGG | |
| Mitochondrion | CMW041R | trnR | TGCTTGTAGCTCAATCGGATAGAGTATTAGACTACGAATCTAAAGGTTGG | |
| Mitochondrion | CMW042R | trnS | GATGAATGGCTGAGCGGTTTAAAGCACTAGTCTTGAAAACCTAGCGTATTT | |
| Mitochondrion | CMW043C | ORF267 | TTCCCAACTAATTATTTTGGCTGTTATTATGTATAAATATGAGATTATGA | |
| Mitochondrion | CMW044R | trnE | TCTAAAGGTCAGGACAGTGTCTTTTTCGACGACAAAATACGAGTTCGATTC | |
| Mitochondrion | CMW045R | trnFM | ACTCATCAGACTCATAATCTGAAAATCATAGGTTCAAATCCTATTCCTCCG | |
| Mitochondrion | CMW046R | trnR | AGCTTAATGGATAGAGCATCAACCTTCTAAGTTGAGTTGTGAGTTCAA | |
| Mitochondrion | CMW047C | atp9 | TTTAGCTACAATTGGTTTAGCAGGAGTTGGAGCAGGTTGGGATCGTTT | |
| Mitochondrion | CMW048R | trnG | TTAATGGTAAATCATCTATCTTCCAAGTAGAAATTATGGGTTCGAATCCC | |
| Mitochondrion | CMW049R | trnL | AGGTAACACGACGGACTTAAATCCGTTCCAATATGGTTATCGGTTCA | |
| Mitochondrion | CMW050C | rps4 | TTGCAACGAGCATCCAAGAGGTACATCAATGGATTAACCATAGATTAGTT | |
| Mitochondrion | CMW051R | trnS | GGAGAGATGGCCGAGTGGTTAAGGCAATAGTTTGTAAACTATCATATA | |
| Mitochondrion | CMW052R | trnV | AATTAGCTCAGCGGTAGAGCATCTGTTTACACCGAGGTTGTGAGCGGTT | |
| Mitochondrion | CMW053C | rps12 | AGCAGAAAAGGAAAGTAGCATTAGTAAAATATCAAATGATCGACGTGTC | |
| Mitochondrion | CMW054R | trnA | AATTGATAGAATATATGTTTTGCACACATAAAGTTGTTGGTTCGAGTCCA | |
| Mitochondrion | CMW055C | sdhD | TTATTTACACCAACCAATCTAATTTTATTTATCAACTTATTAAGAA | |
| Mitochondrion | CMW056R | trnD | GAGTAATCAAAGGTAGAATATTAGTCTGTACGCTAAACGGTGCAGGTT | |
| Mitochondrion | CMW057R | trnY | AGCGATAGACTGTAATCTATTGATTTATCTACGCAGGTTTCAATCCT | |
| Mitochondrion | CMW058R | rrnS | ATTGATGACAGGATTAAGGACTGGAGTGAAGTCGTAACAAGGTATCCGTA | |
| Mitochondrion | CMW059R | trnN | GCAATTGACTGTTAATCAATGGGTTGCTAGTTCAAATCTAGCTCAGAGAG | |
| Mitochondrion | CMW060C | nad4L | TTTAGTAGTTTATATAGAATCTGTGGAACATTTCCGTTGAGTTAATTA | |
| Mitochondrion | CMW061C | ccmC | GAAAACCTACATGGGAACTTGGTGGGTGTGGATGCTAGACTTACTTCA | |
| Mitochondrion | CMW062R | rrnL | AGAAGAAGTAAAGGCTGACGTTTGGCCAGGTGCTTGTGGTTAATTTAT | |